Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18LZ\
Data File : L18LZ005.D
Acq On : 26 Dec 2018 3:29 pm
Operator : MAH
Sample : 8121130-15
Misc : GOWER MS 12/8/18
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 23 14:42:04 2019
Quant Method : C:\msdchem\1\METHODS\8120004.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu Dec 20 06:20:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	19.993	66	62164	4.7700 ppbv	0.00
29) IS-1,4-Difluorobenzene	23.151	114	149066	4.9900 ppbv	0.00
43) IS-Chlorobenzene-d5	30.097	117	107206	4.7400 ppbv	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Acetylene	0.000	26	0	N.D. d	
3) Propylene	0.000	41	0	N.D. d	
4) Dichlorodifluoromethane	0.000	85	0	N.D. d	
5) Chloromethane	0.000	50	0	N.D. d	
6) Dichlorotetrafluoroethane	0.000	85	0	N.D. d	
7) Vinyl Chloride	0.000	62	0	N.D.	
8) 1,3-Butadiene	0.000	54	0	N.D. d	
9) Ethylene oxide	12.485	29	231m	0.0622 ppbv	RUB 1/24/19
10) Bromomethane	0.000	94	0	N.D. d	
11) Chloroethane	0.000	64	0	N.D.	
12) Acetonitrile	0.000	41	0	N.D. d	
13) Acrolein	0.000	56	0	N.D. d	
14) Trichlorofluoromethane	0.000	101	0	N.D. d	
15) Acrylonitrile	0.000	53	0	N.D. d	
16) 1,1-Dichloroethene	0.000	61	0	N.D.	
17) Methylene Chloride	0.000	49	0	N.D. d	
18) Carbon Disulfide	0.000	76	0	N.D. d	
19) Trichlorotrifluoroethane	0.000	101	0	N.D. d	
20) trans-1,2-Dichloroethy...	0.000	96	0	N.D. d	
21) 1,1-Dichloroethane	0.000	63	0	N.D.	
22) Methyl tert-Butyl Ether	0.000	73	0	N.D. d	
23) Chloroprene	0.000	53	0	N.D. d	
24) cis-1,2-Dichloroethylene	0.000	61	0	N.D. d	
25) Bromochloromethane	0.000	128	0	N.D.	
26) Chloroform	0.000	83	0	N.D. d	
27) Ethyl tert-Butyl Ether	0.000	59	0	N.D.	
28) 1,2-Dichloroethane	0.000	62	0	N.D. d	
30) 1,1,1-Trichloroethane	0.000	97	0	N.D.	
31) Benzene	0.000	78	0	N.D. d	
32) Carbon Tetrachloride	0.000	117	0	N.D. d	
33) tert-Amyl Methyl Ether	0.000	73	0	N.D.	
34) 1,2-Dichloropropane	0.000	63	0	N.D. d	
35) Ethyl Acrylate	0.000	55	0	N.D.	
36) Bromodichloromethane	0.000	83	0	N.D. d	
37) Trichloroethylene	0.000	130	0	N.D. d	
38) Methyl Methacrylate	0.000	41	0	N.D. d	
39) cis-1,3-Dichloropropene	0.000	75	0	N.D.	
40) Methyl Isobutyl Ketone	0.000	43	0	N.D. d	
41) trans-1,3-Dichloropropene	0.000	75	0	N.D.	
42) 1,1,2-Trichloroethane	0.000	97	0	N.D.	
44) Toluene	0.000	91	0	N.D. d	
45) Dibromochloromethane	0.000	129	0	N.D.	
46) 1,2-Dibromoethane	0.000	107	0	N.D.	
47) n-Octane	0.000	43	0	N.D. d	
48) Tetrachloroethylene	0.000	166	0	N.D. d	
49) Chlorobenzene	0.000	112	0	N.D.	
50) Ethylbenzene	0.000	91	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18LZ\
Data File : L18LZ005.D
Acq On : 26 Dec 2018 3:29 pm
Operator : MAH
Sample : 8121130-15
Misc : GOWER MS 12/8/18
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 23 14:42:04 2019
Quant Method : C:\msdchem\1\METHODS\8120004.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu Dec 20 06:20:47 2018
Response via : Initial Calibration

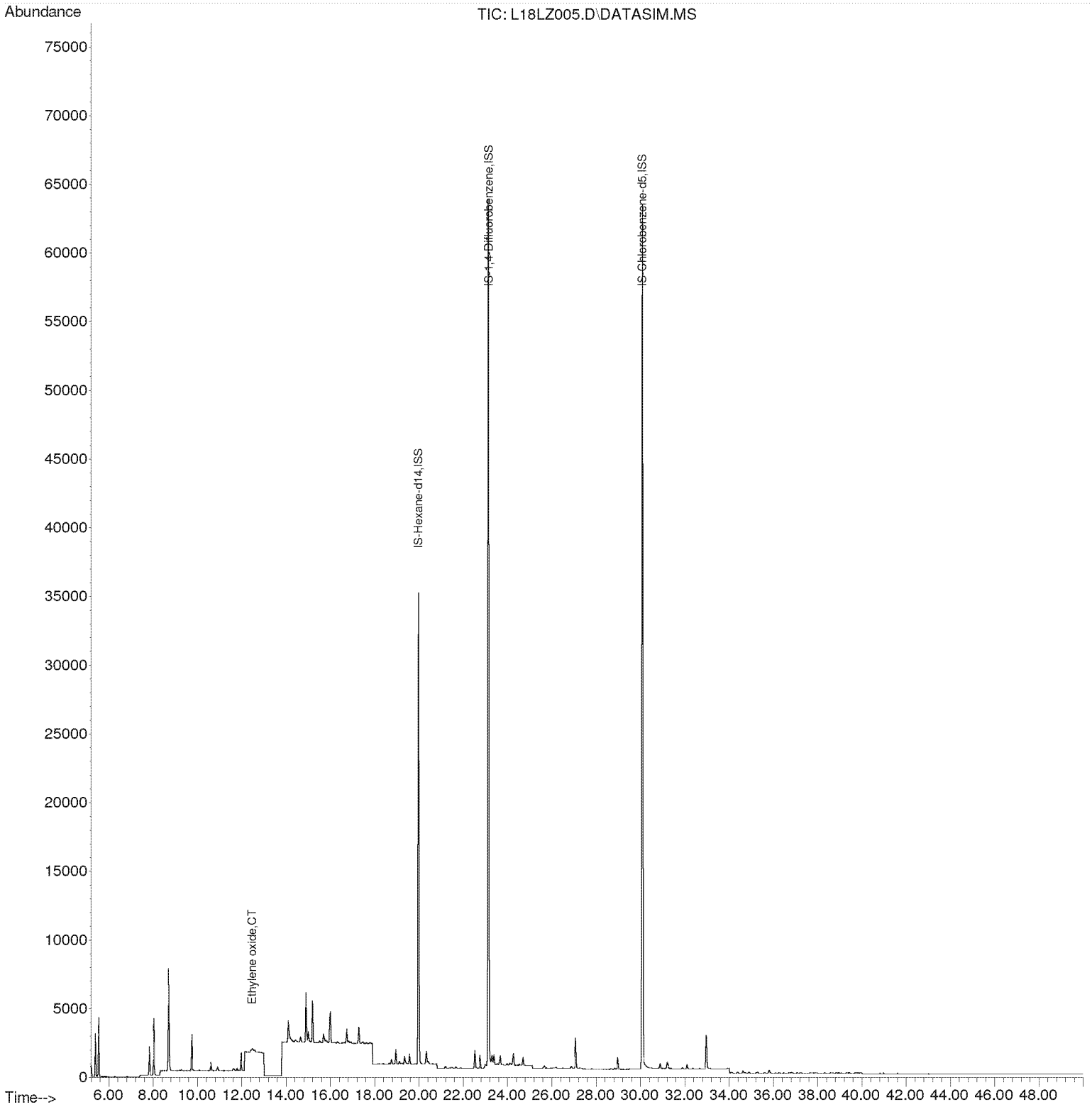
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) m,p-Xylene	0.000	91	0	N.D. d	
52) Bromoform	0.000	173	0	N.D.	
53) Styrene	0.000	104	0	N.D. d	
54) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.	
55) o-Xylene	0.000	91	0	N.D. d	
56) 1,3,5-Trimethylbenzene	0.000	105	0	N.D. d	
57) 1,2,4-Trimethylbenzene	0.000	105	0	N.D. d	
58) m-Dichlorobenzene	0.000	146	0	N.D.	
59) p-Dichlorobenzene	0.000	146	0	N.D.	
60) o-Dichlorobenzene	0.000	146	0	N.D.	
61) 1,2,4-Trichlorobenzene	0.000	180	0	N.D. d	
62) Hexachloro-1,3-butadiene	0.000	225	0	N.D.	

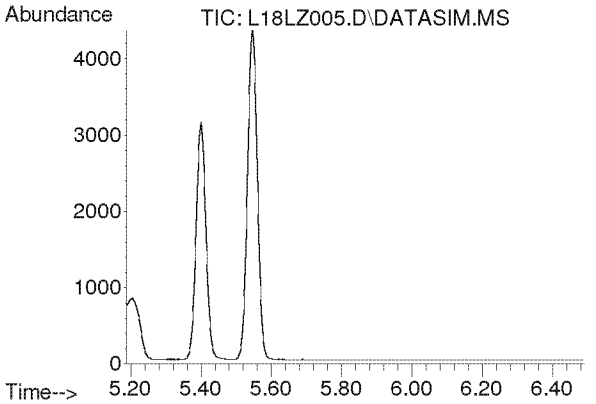
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ED_002475_00000118-00002

Data Path : Y:\MASS SPEC 1 DATA\L18LZ\
Data File : L18LZ005.D
Acq On : 26 Dec 2018 3:29 pm
Operator : MAH
Sample : 8121130-15
Misc : GOWER MS 12/8/18
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 03 10:24:17 2019
Quant Method : C:\msdchem\1\METHODS\8120004.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu Dec 20 06:20:47 2018
Response via : Initial Calibration

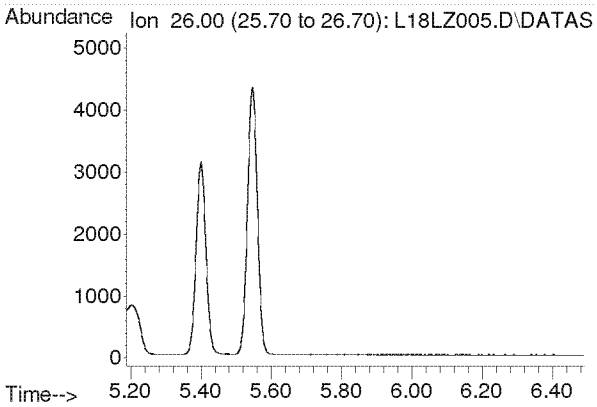


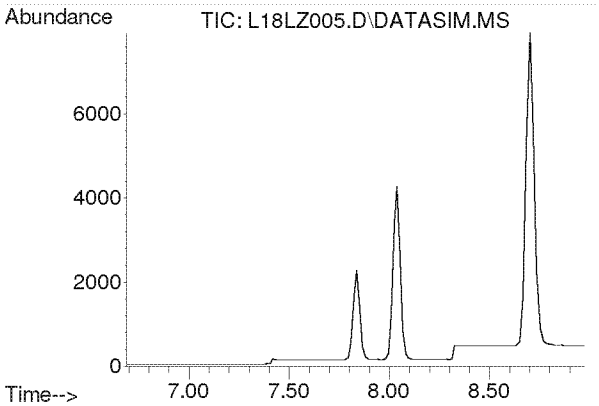


#2
Acetylene
Concen: N.D.
Expected RT: 5.42 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 26



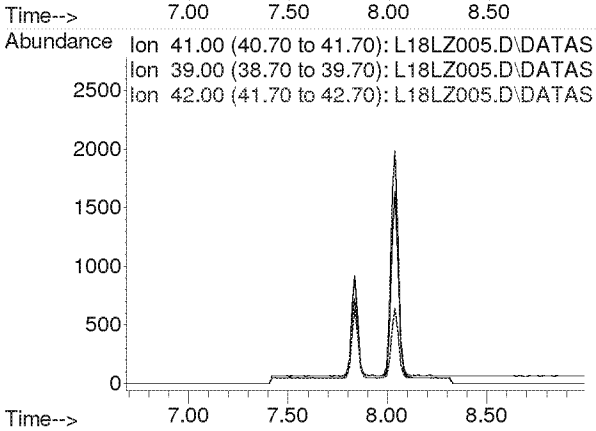


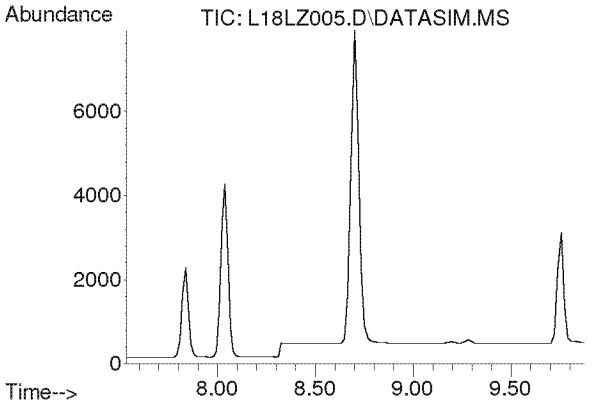
#3
Propylene
Concen: N.D.
Expected RT: 7.84 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 41

Sig	Exp Ratio
41	100
39	78.2
42	65.8



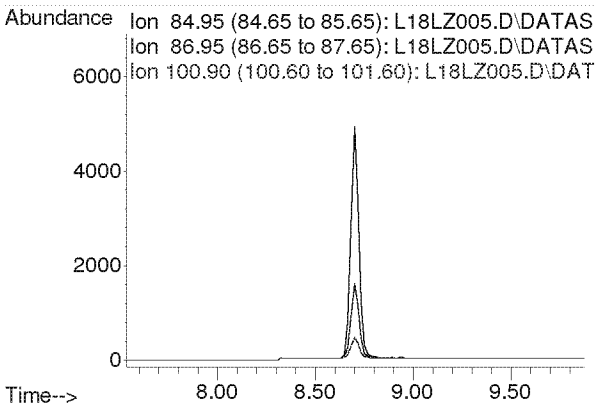


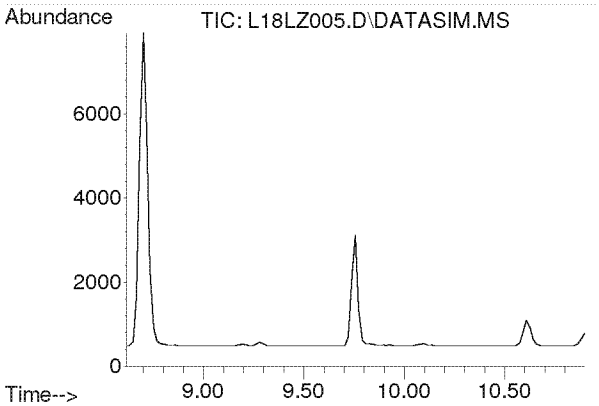
#4
Dichlorodifluoromethane
Concen: N.D.
Expected RT: 8.68 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 85

Sig	Exp Ratio
85	100
87	32.5
101	8.9



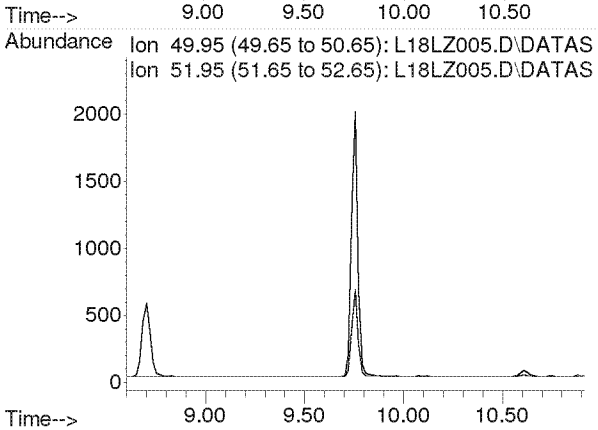


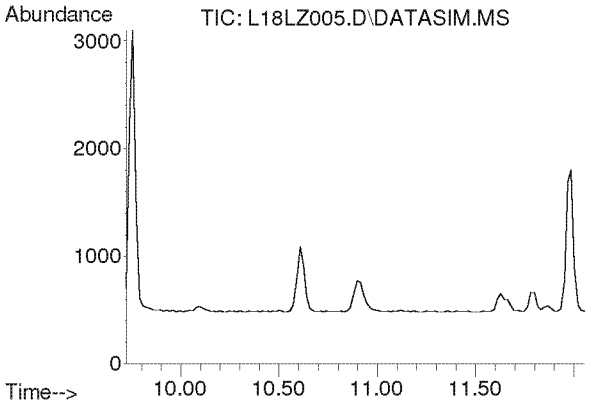
#5
Chloromethane
Concen: N.D.
Expected RT: 9.76 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 50

Sig	Exp Ratio
50	100
52	32.6



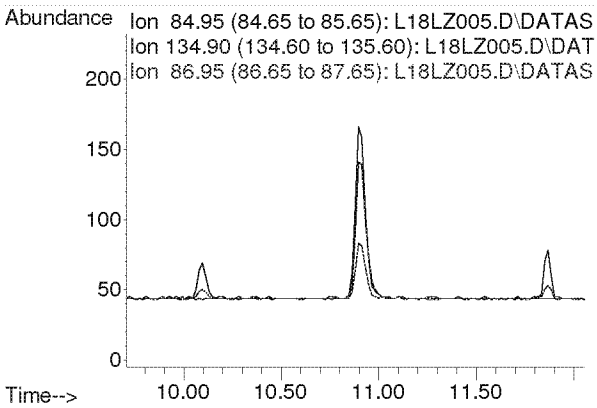


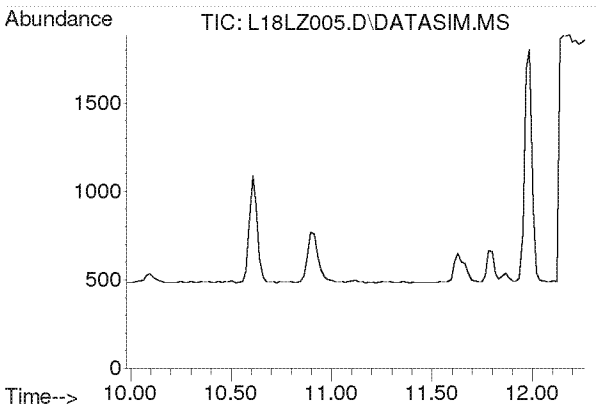
#6
Dichlorotetrafluoroethane
Concen: N.D.
Expected RT: 10.86 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 85

Sig	Exp Ratio
85	100
135	79.1
87	32.1



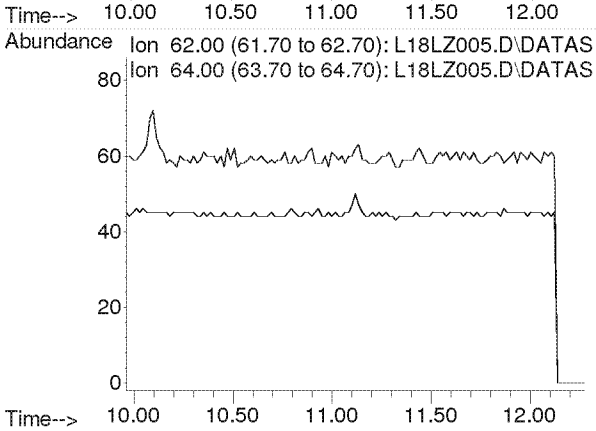


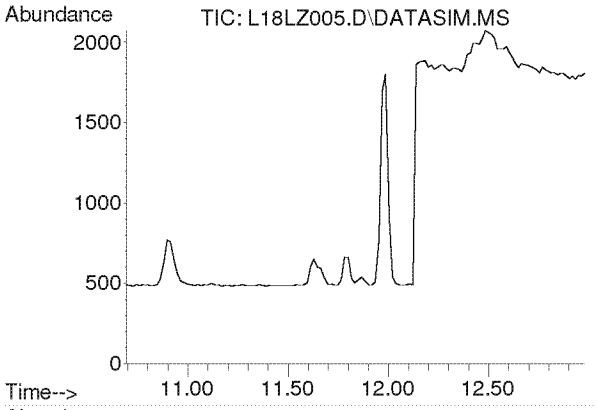
#7
Vinyl Chloride
Concen: N.D.
Expected RT: 11.12 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 62

Sig	Exp Ratio
62	100
64	31.8



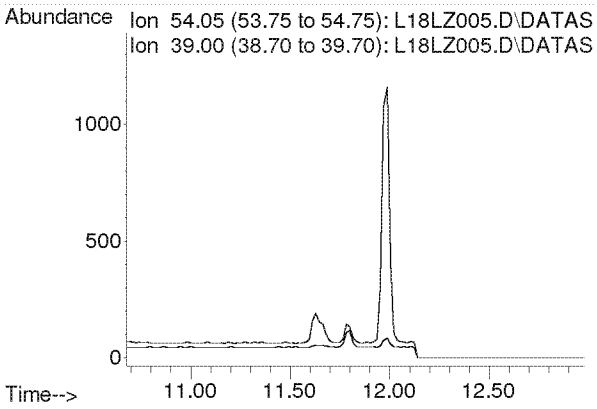


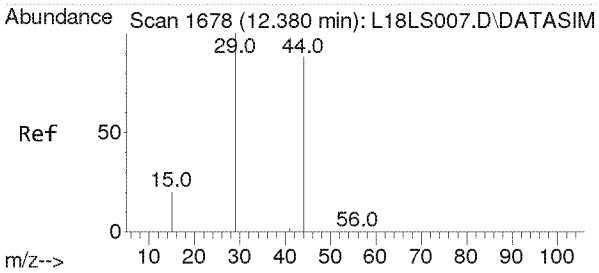
#8
1,3-Butadiene
Concen: N.D.
Expected RT: 11.78 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 54

Sig	Exp Ratio
54	100
39	105.4

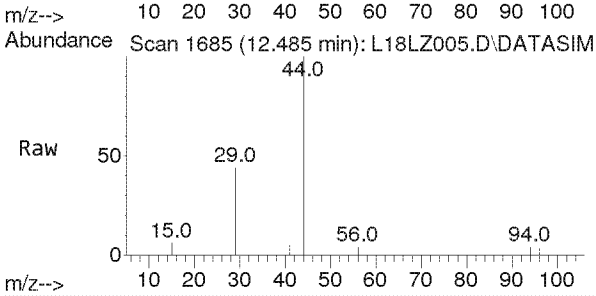


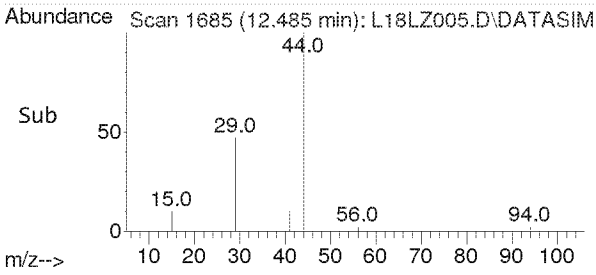


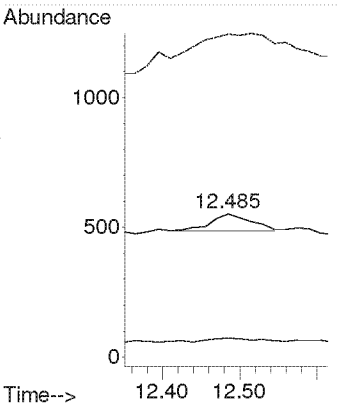
#9
Ethylene oxide
Concen: 0.062 ppbv m
RT: 12.485 min Scan# 1685
Delta R.T. 0.105 min
Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

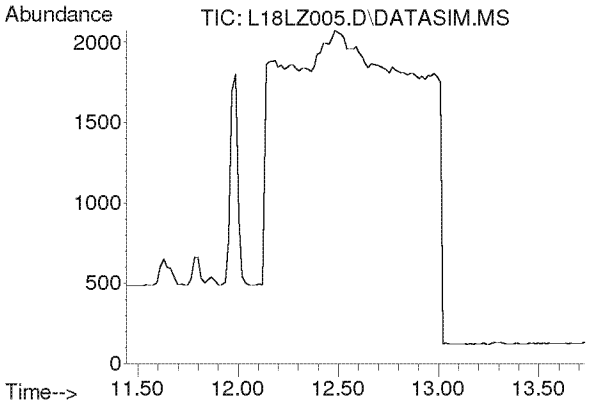
Tgt Ion: 29 Resp: 231

Ion	Ratio	Lower	Upper
29	100		
15	0.0	16.2	24.4#
44	0.0	72.0	108.0#







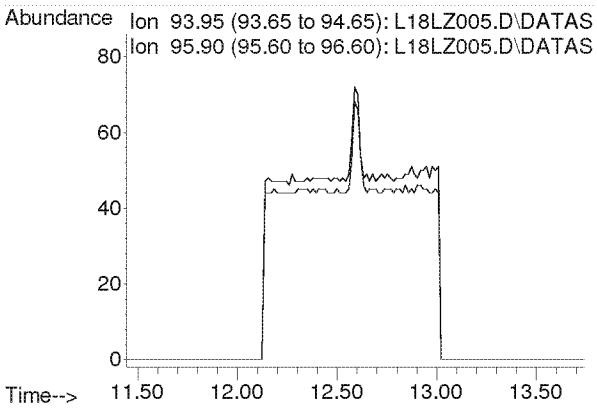


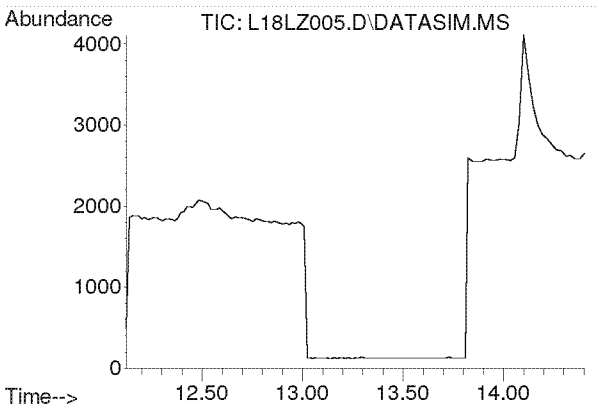
#10
Bromomethane
Concen: N.D.
Expected RT: 12.59 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 94

Sig	Exp Ratio
94	100
96	93.9



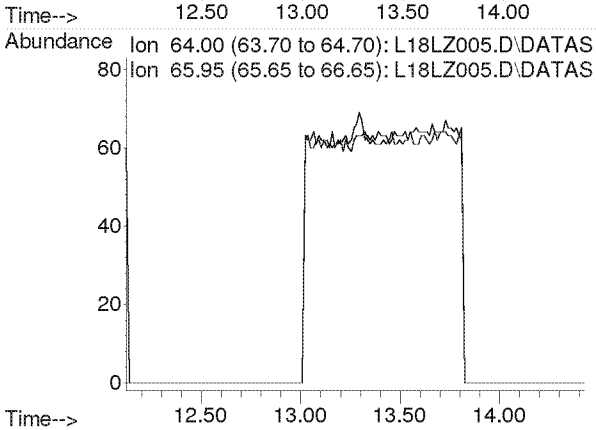


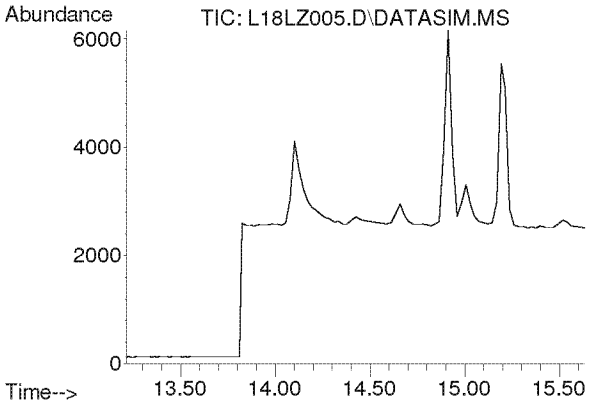
#11
Chloroethane
Concen: N.D.
Expected RT: 13.27 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 64

Sig	Exp Ratio
64	100
66	32.0



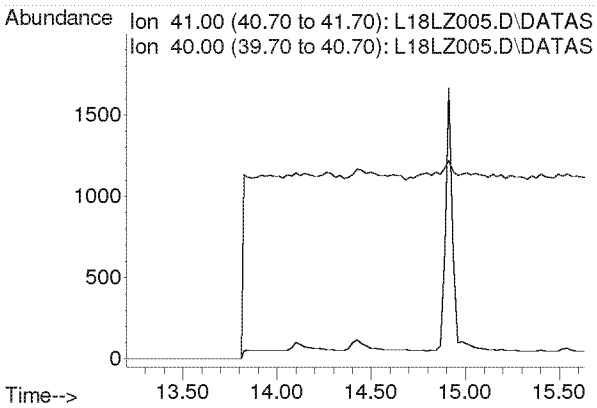


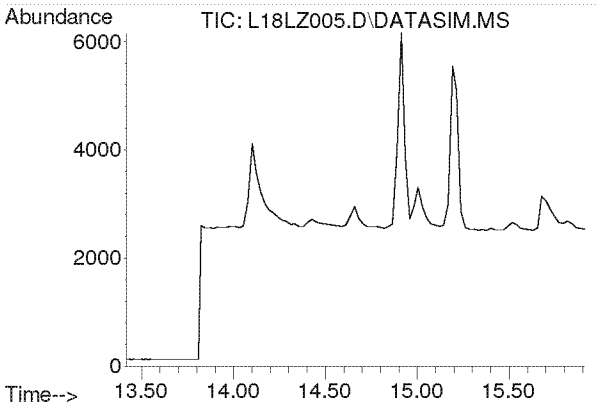
#12
Acetonitrile
Concen: N.D.
Expected RT: 14.33 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 41

Sig	Exp Ratio
41	100
40	50.9



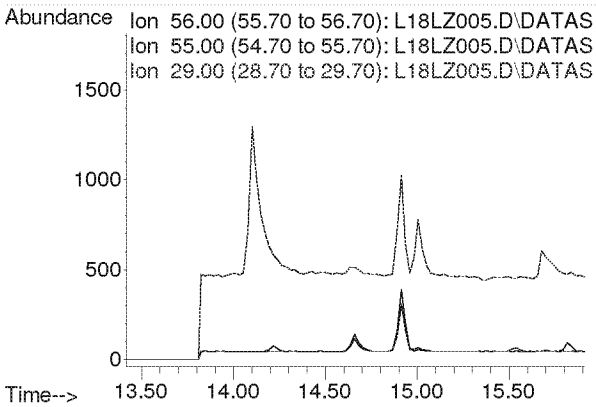


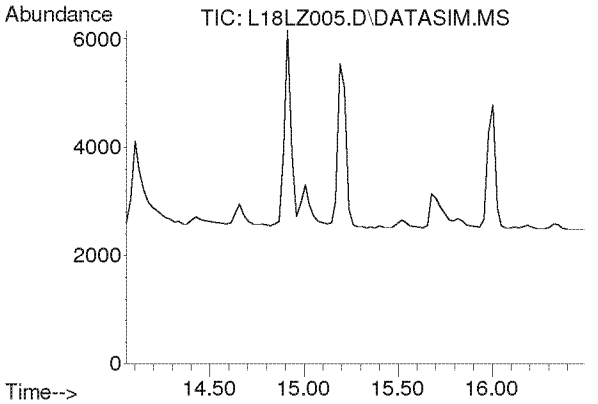
#13
Acrolein
Concen: N.D.
Expected RT: 14.61 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 56

Sig	Exp Ratio
56	100
55	75.4
29	52.9



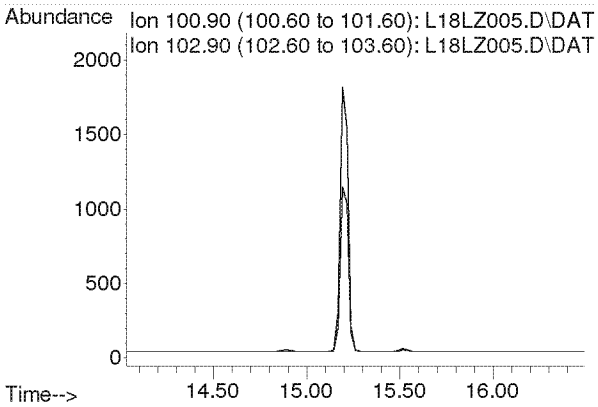


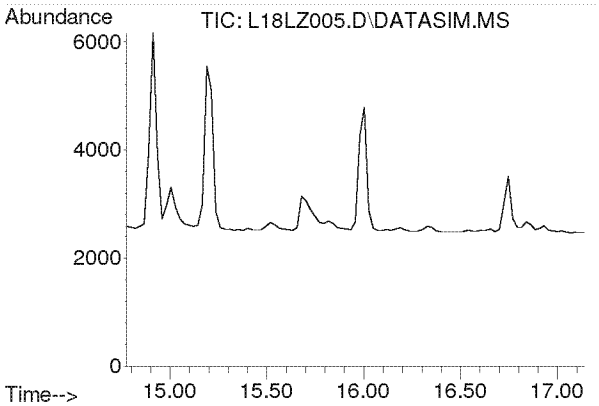
#14
Trichlorofluoromethane
Concen: N.D.
Expected RT: 15.19 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 101

Sig	Exp Ratio
101	100
103	64.6



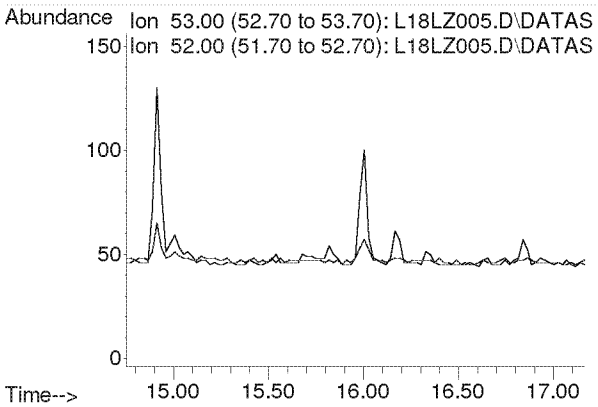


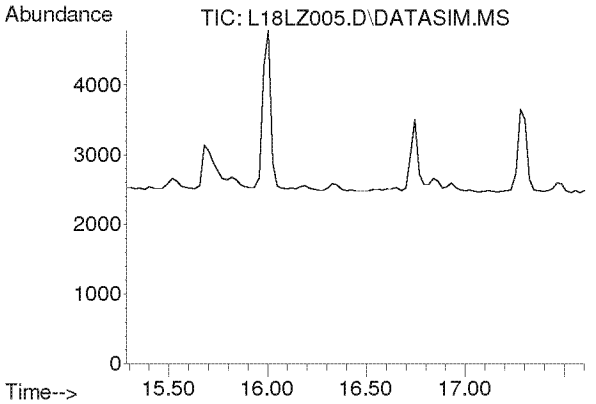
#15
Acrylonitrile
Concen: N.D.
Expected RT: 15.91 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 53

Sig	Exp Ratio
53	100
52	85.4



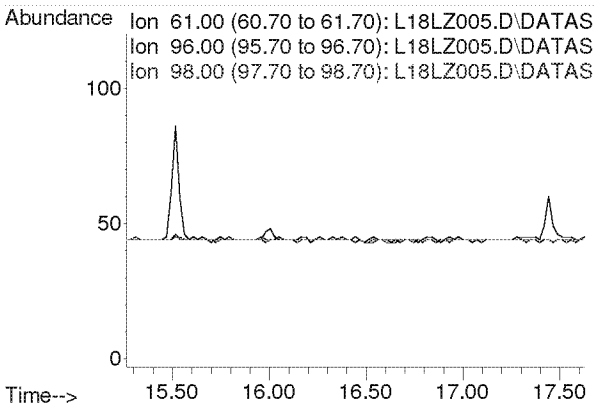


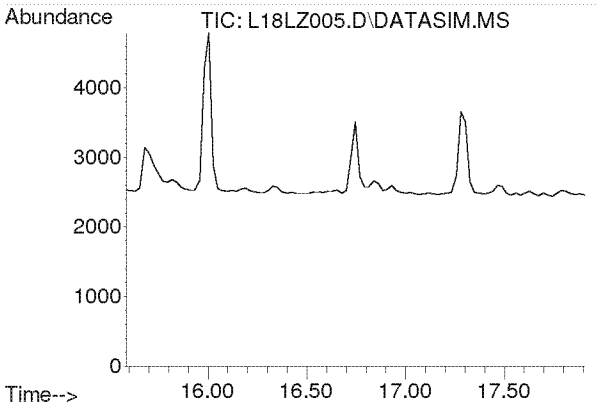
#16
1,1-Dichloroethene
Concen: N.D.
Expected RT: 16.42 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	58.3
98	37.4



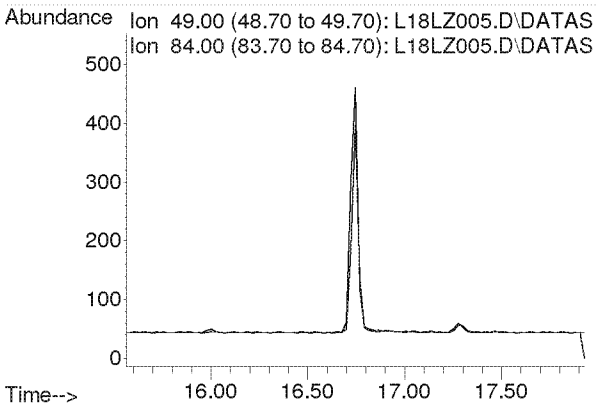


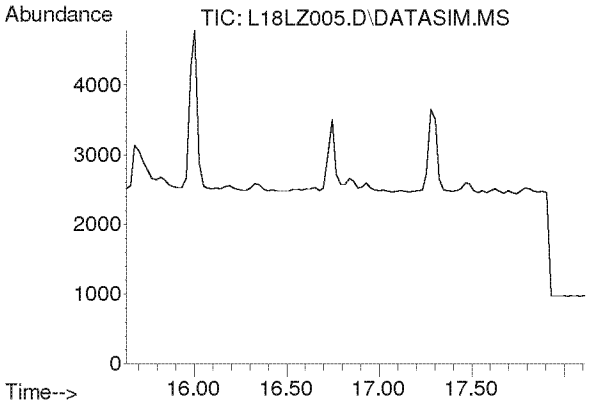
#17
Methylene Chloride
Concen: N.D.
Expected RT: 16.72 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 49

Sig	Exp Ratio
49	100
84	76.4



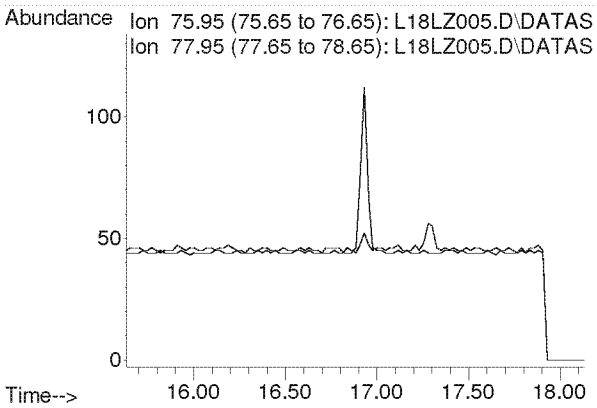


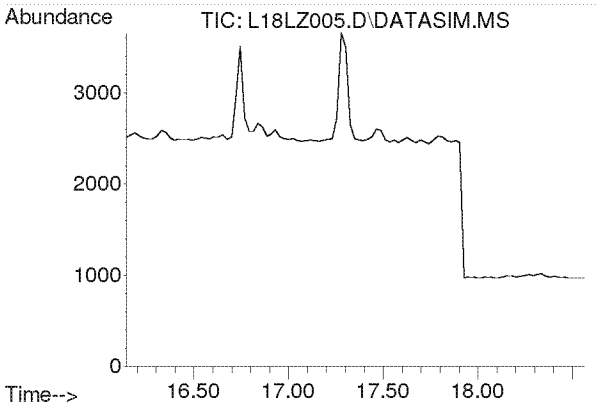
#18
Carbon Disulfide
Concen: N.D.
Expected RT: 16.93 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 76

Sig	Exp Ratio
76	100
78	9.1



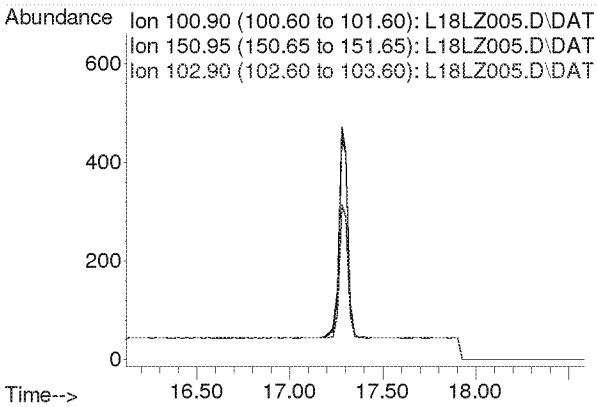


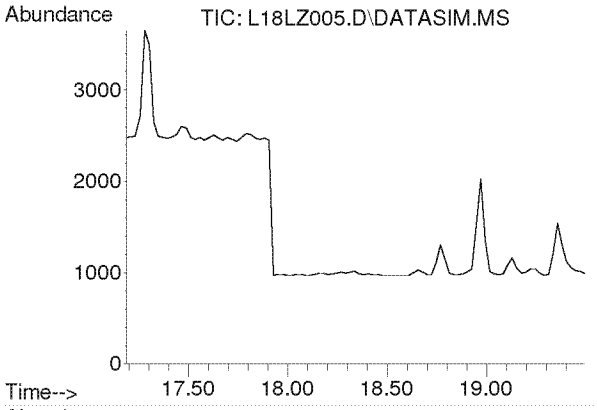
#19
Trichlorotrifluoroethane
Concen: N.D.
Expected RT: 17.28 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 101

Sig	Exp Ratio
101	100
151	95.3
103	64.1



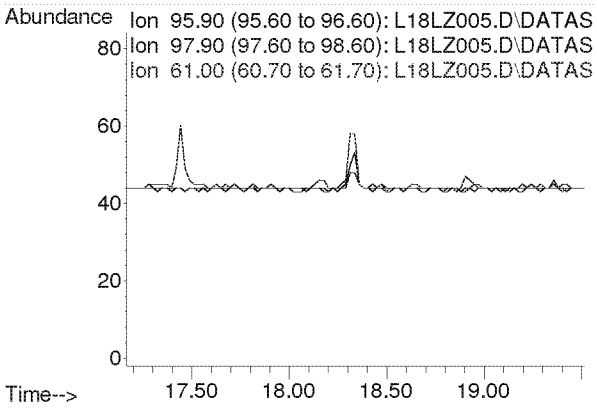


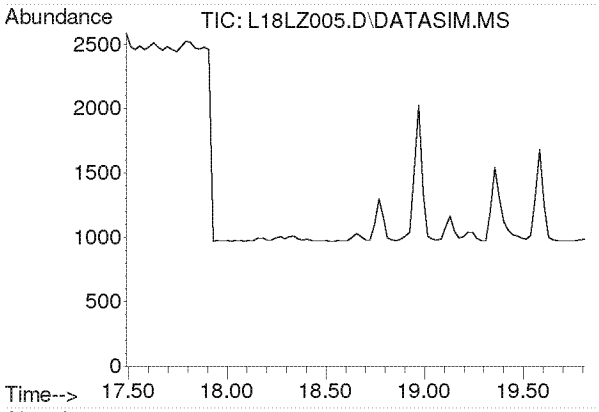
#20
trans-1,2-Dichloroethylene
Concen: N.D.
Expected RT: 18.31 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 96

Sig	Exp Ratio
96	100
98	63.7
61	159.2



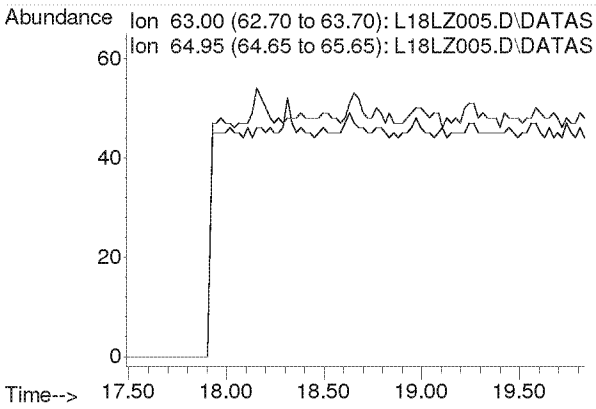


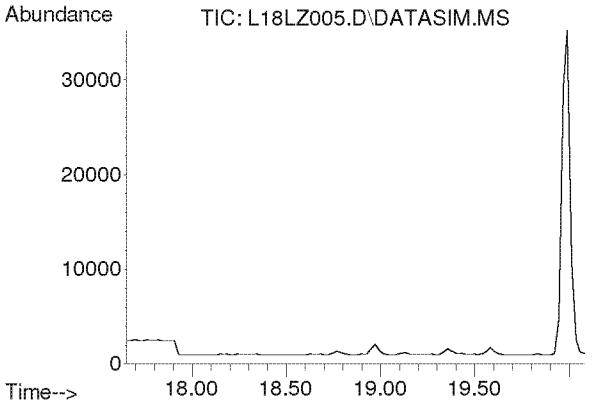
#21
1,1-Dichloroethane
Concen: N.D.
Expected RT: 18.63 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
65	31.7



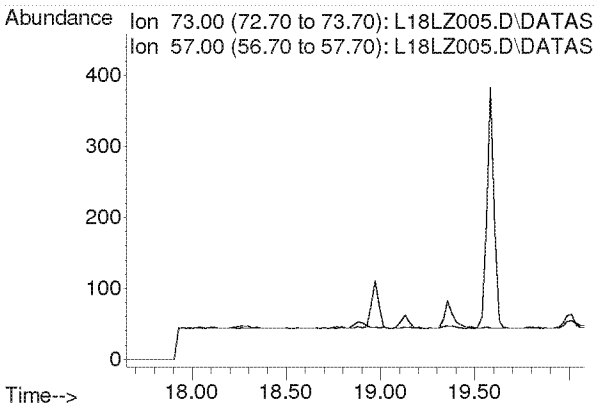


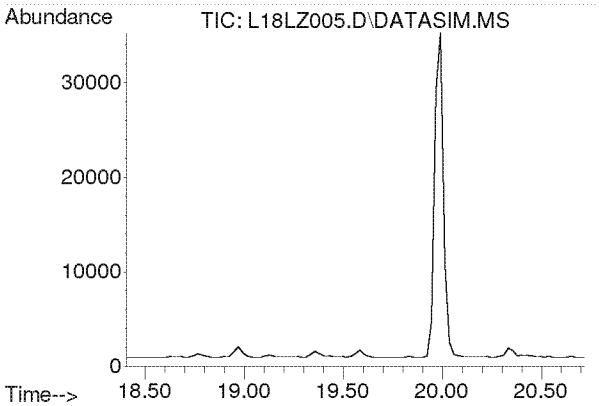
#22
Methyl tert-Butyl Ether
Concen: N.D.
Expected RT: 18.79 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 73

Sig	Exp Ratio
73	100
57	23.4



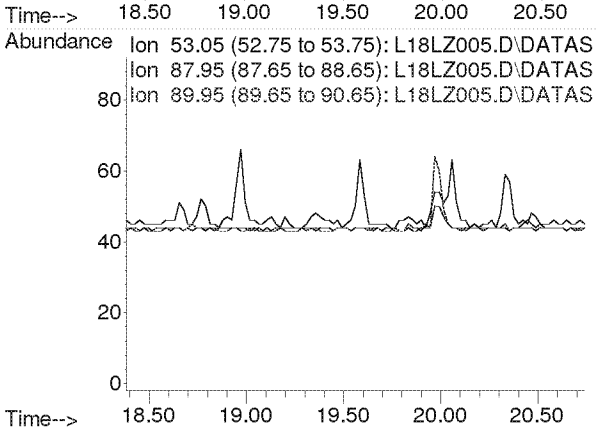


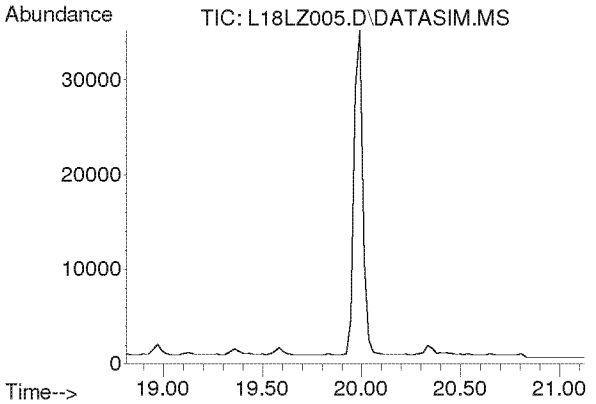
#23
Chloroprene
Concen: N.D.
Expected RT: 19.54 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 53

Sig	Exp Ratio
53	100
88	51.8
90	16.8



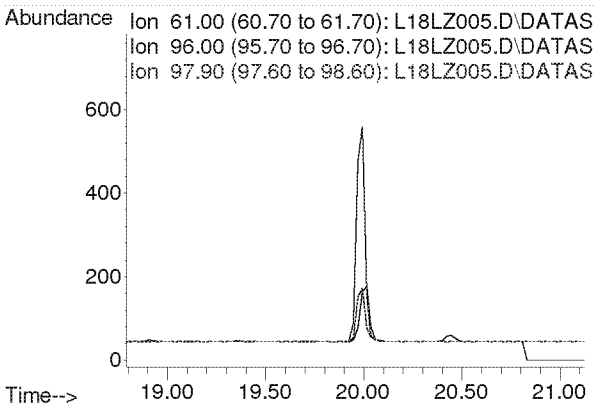


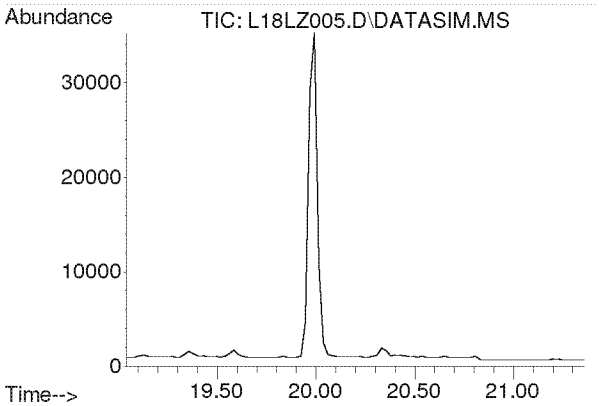
#24
cis-1,2-Dichloroethylene
Concen: N.D.
Expected RT: 19.95 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	73.7
98	45.2



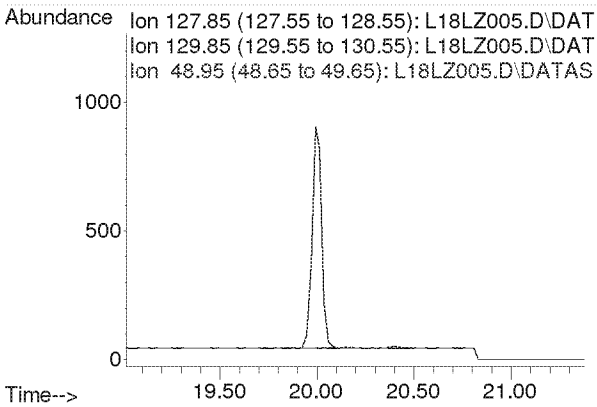


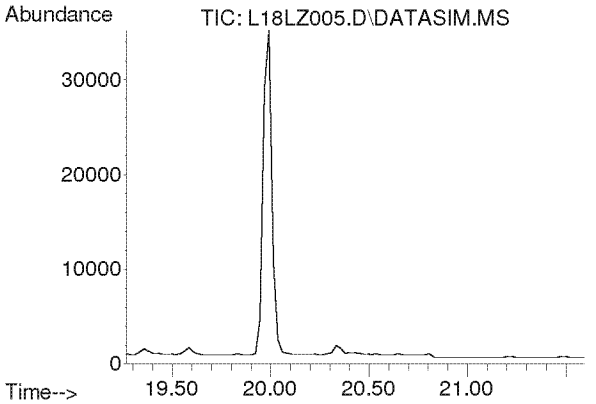
#25
Bromochloromethane
Concen: N.D.
Expected RT: 20.17 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 128

Sig	Exp Ratio
128	100
130	129.1
49	171.2



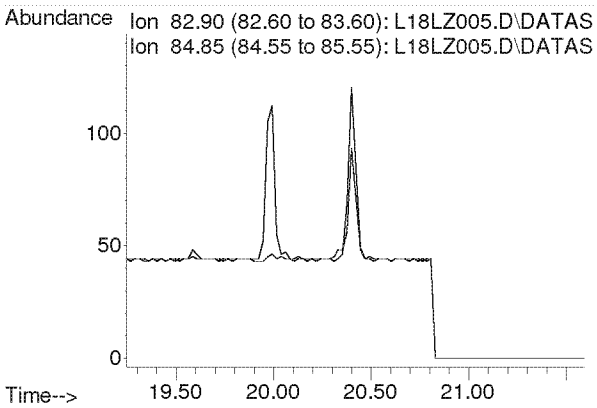


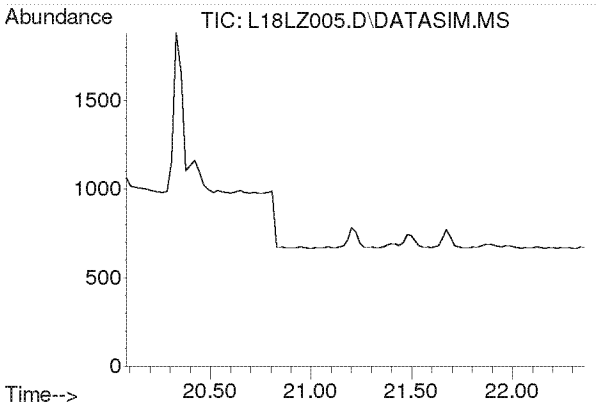
#26
Chloroform
Concen: N.D.
Expected RT: 20.40 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	64.4



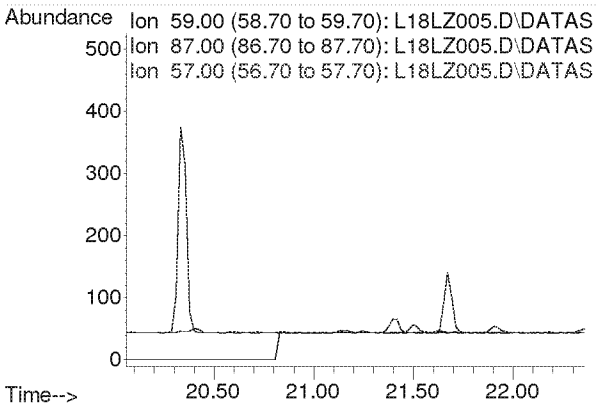


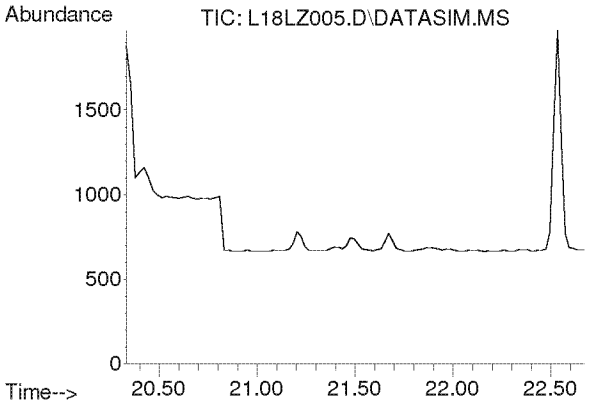
#27
Ethyl tert-Butyl Ether
Concen: N.D.
Expected RT: 21.16 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 59

Sig	Exp Ratio
59	100
87	37.5
57	33.8



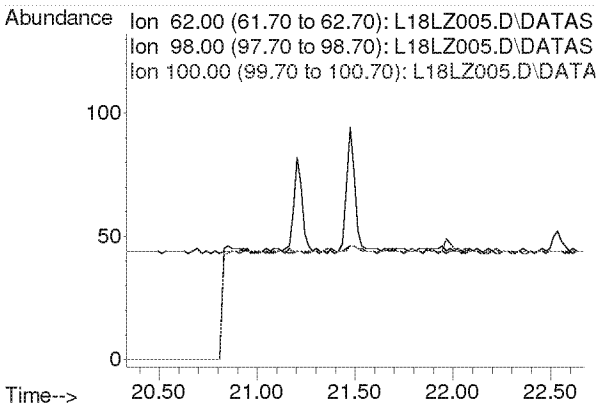


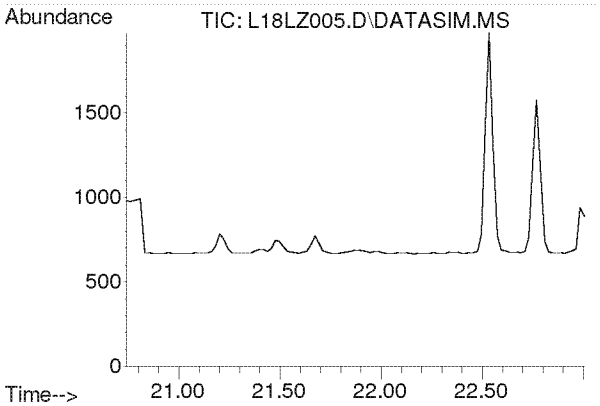
#28
1,2-Dichloroethane
Concen: N.D.
Expected RT: 21.48 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 62

Sig	Exp Ratio
62	100
98	6.4
100	4.0



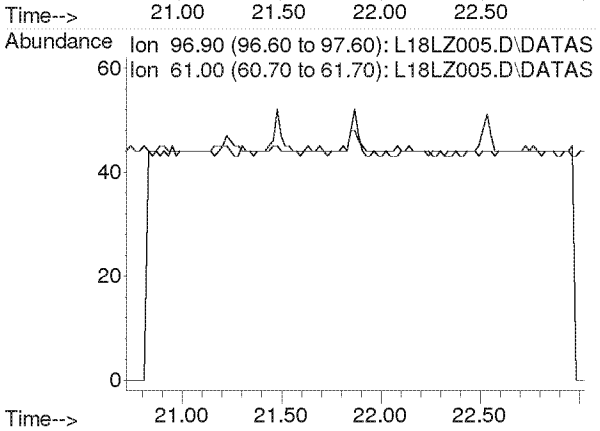


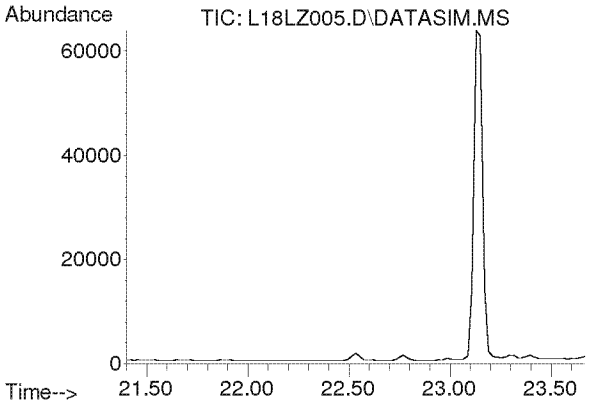
#30
1,1,1-Trichloroethane
Concen: N.D.
Expected RT: 21.87 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 97

Sig	Exp Ratio
97	100
61	60.5



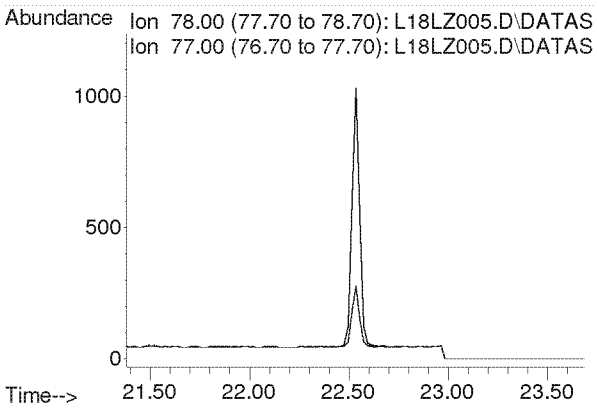


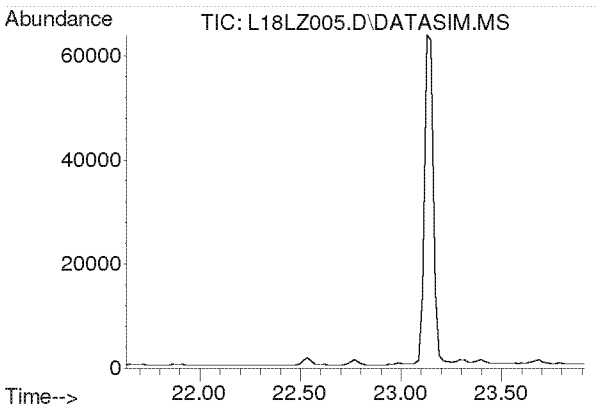
#31
Benzene
Concen: N.D.
Expected RT: 22.54 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 78

Sig	Exp Ratio
78	100
77	22.7



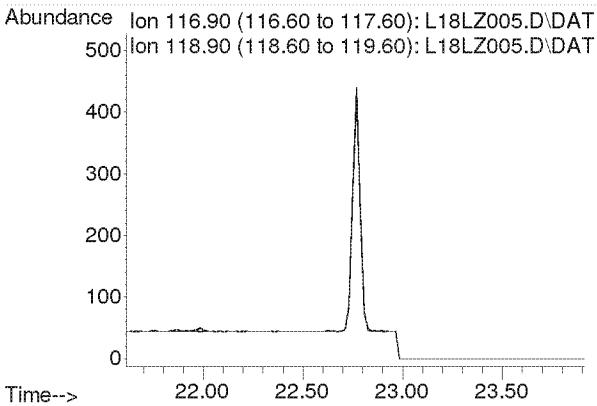


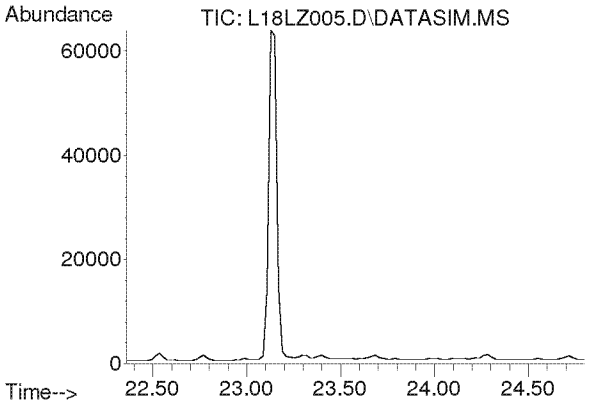
#32
Carbon Tetrachloride
Concen: N.D.
Expected RT: 22.77 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 117

Sig	Exp Ratio
117	100
119	96.5



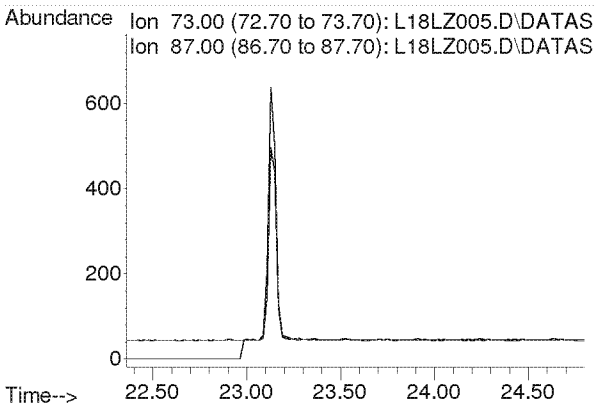


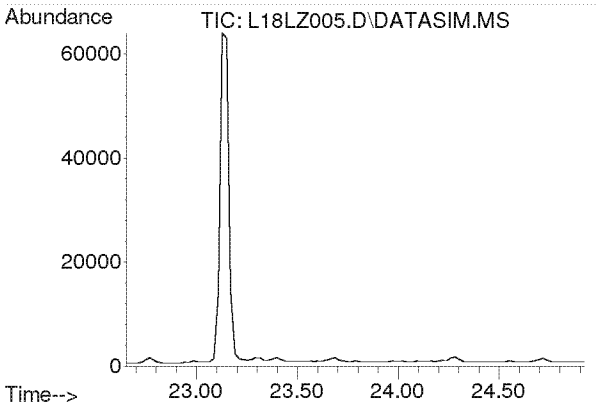
#33
tert-Amyl Methyl Ether
Concen: N.D.
Expected RT: 23.50 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 73

Sig	Exp Ratio
73	100
87	24.9



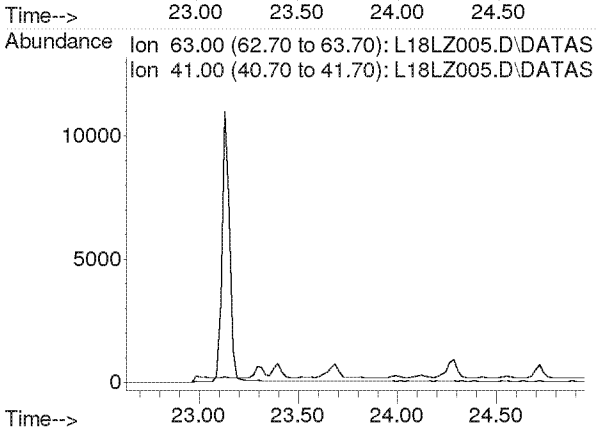


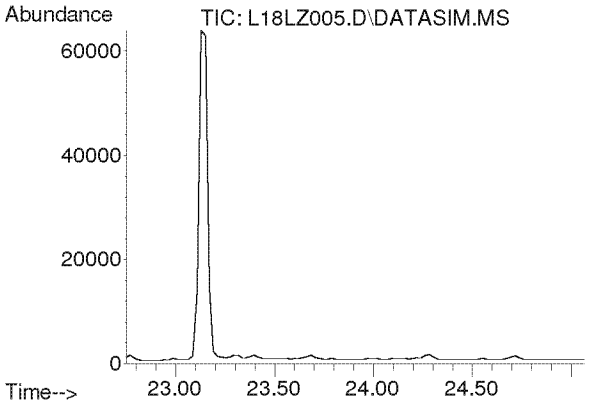
#34
1,2-Dichloropropane
Concen: N.D.
Expected RT: 23.79 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
41	212.8



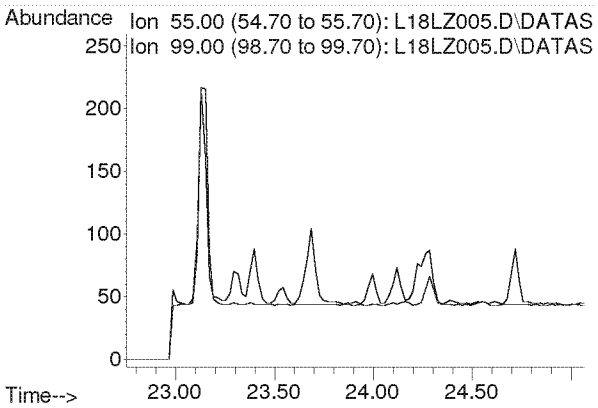


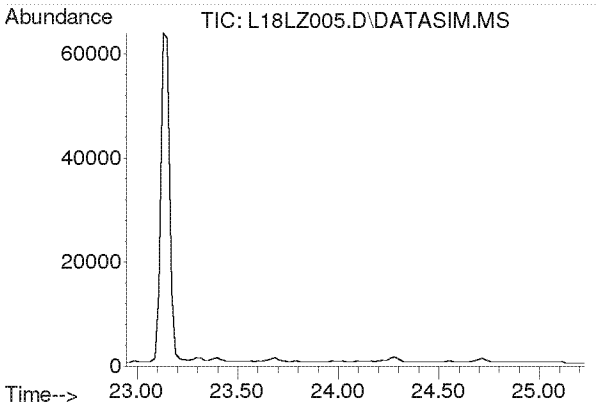
#35
Ethyl Acrylate
Concen: N.D.
Expected RT: 23.87 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 55

Sig	Exp Ratio
55	100
99	6.1



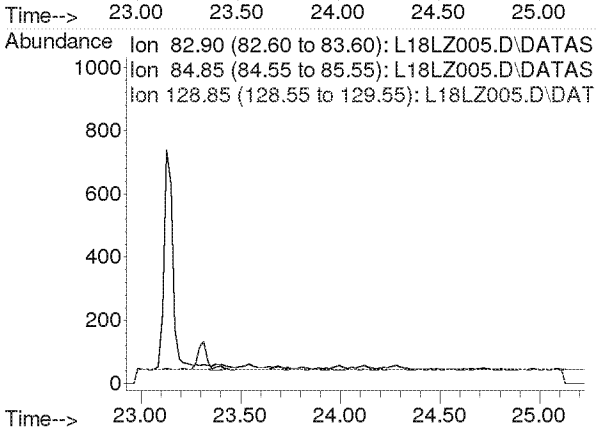


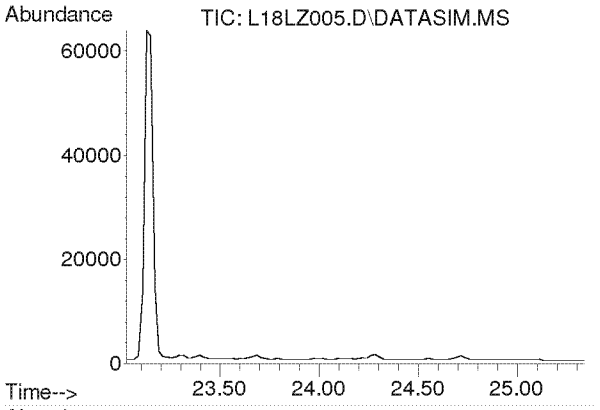
#36
Bromodichloromethane
Concen: N.D.
Expected RT: 24.08 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	64.0
129	12.4



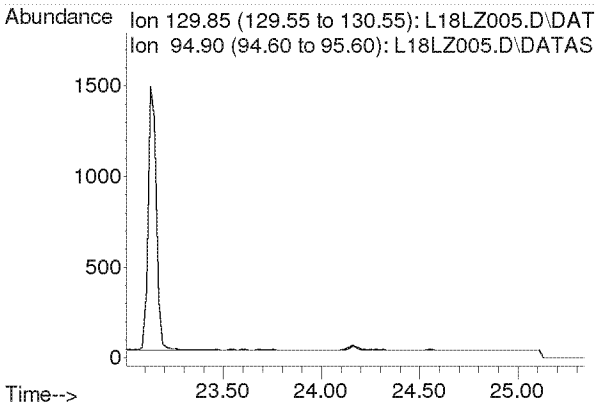


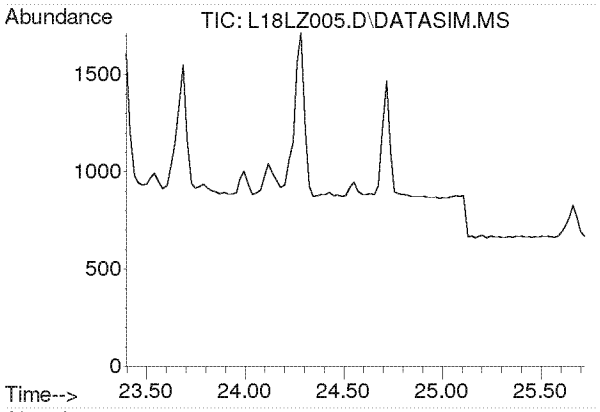
#37
Trichloroethylene
Concen: N.D.
Expected RT: 24.16 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 130

Sig	Exp Ratio
130	100
95	110.3



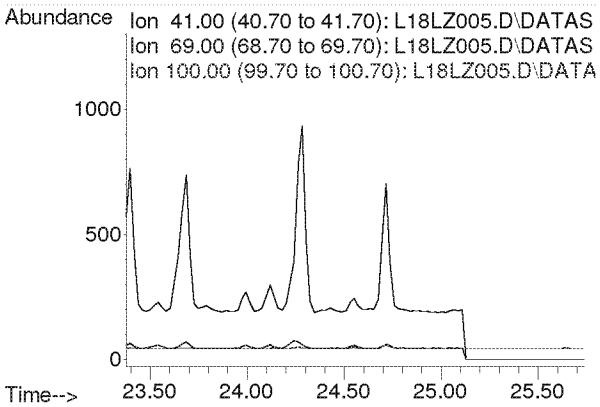


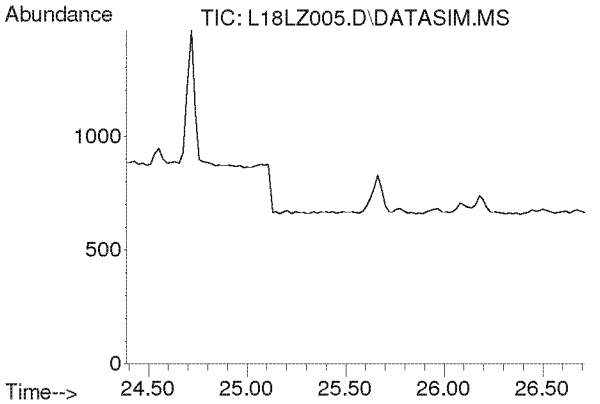
#38
Methyl Methacrylate
Concen: N.D.
Expected RT: 24.53 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 41

Sig	Exp Ratio
41	100
69	19.9
100	5.2



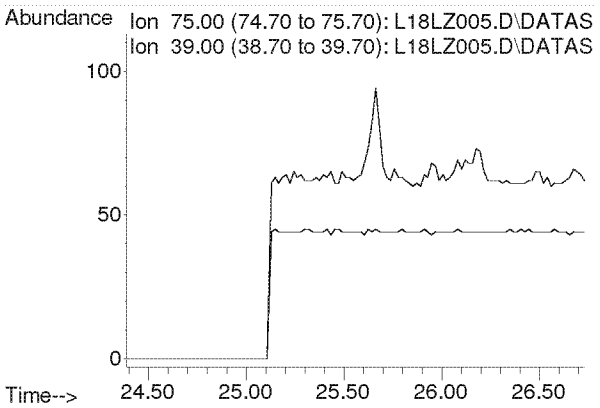


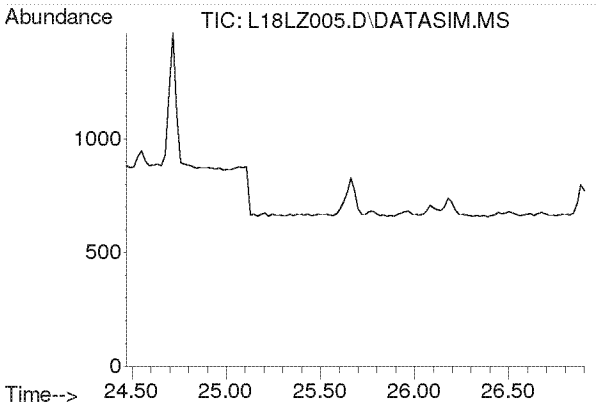
#39
cis-1,3-Dichloropropene
Concen: N.D.
Expected RT: 25.53 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 75

Sig	Exp Ratio
75	100
39	54.4



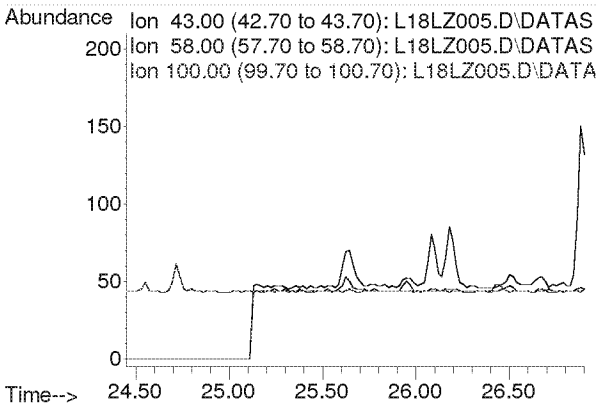


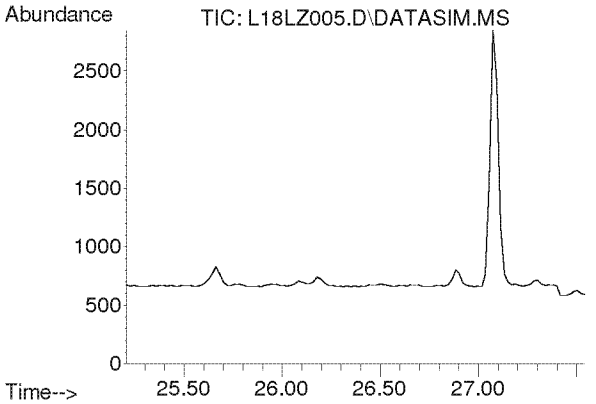
#40
Methyl Isobutyl Ketone
Concen: N.D.
Expected RT: 25.61 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
58	34.2
100	7.9



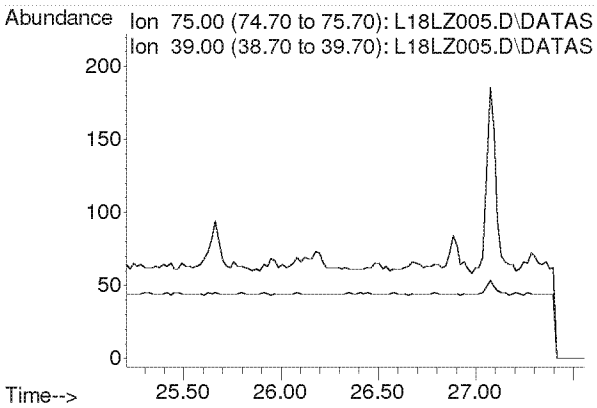


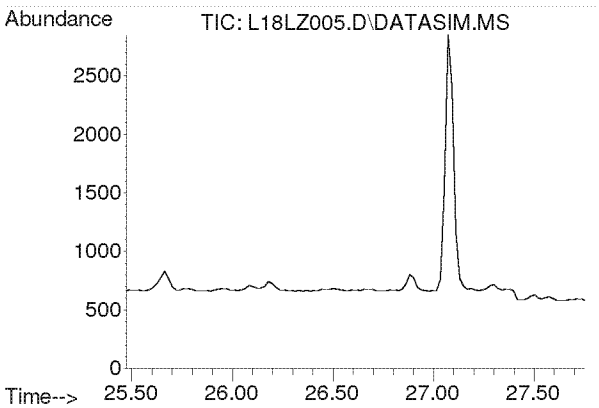
#41
trans-1,3-Dichloropropene
Concen: N.D.
Expected RT: 26.35 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 75

Sig	Exp Ratio
75	100
39	50.9



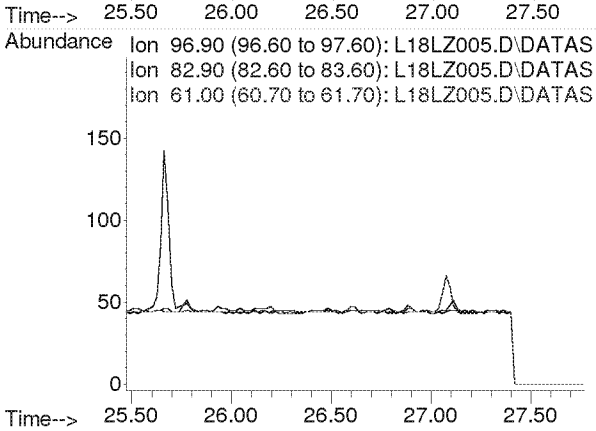


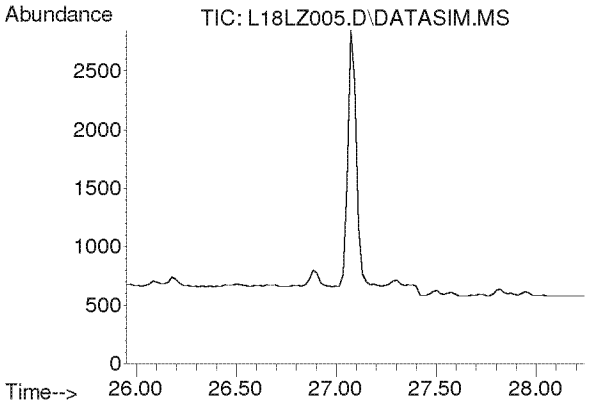
#42
1,1,2-Trichloroethane
Concen: N.D.
Expected RT: 26.62 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 97

Sig	Exp Ratio
97	100
83	96.1
61	63.5



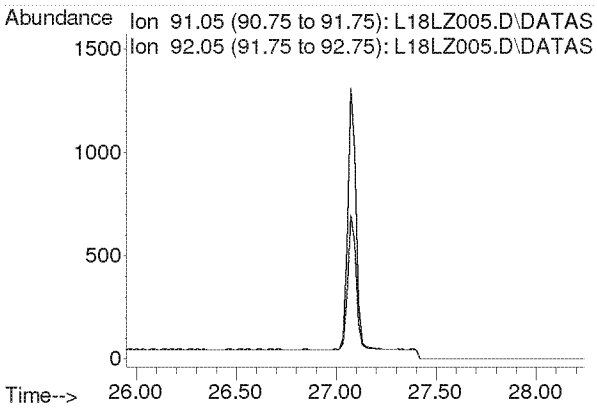


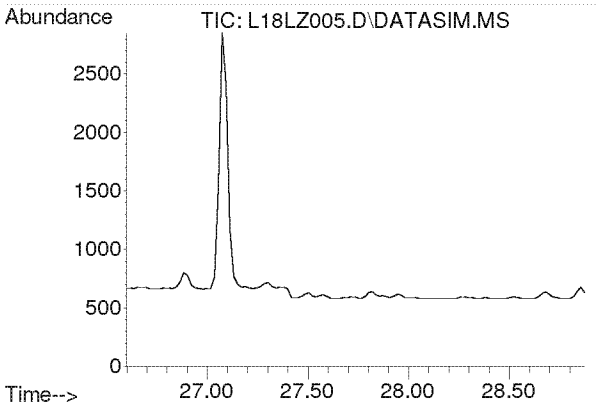
#44
Toluene
Concen: N.D.
Expected RT: 27.09 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 91

Sig	Exp Ratio
91	100
92	52.6



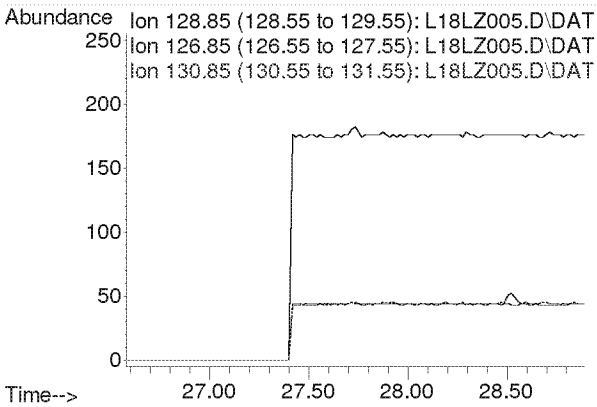


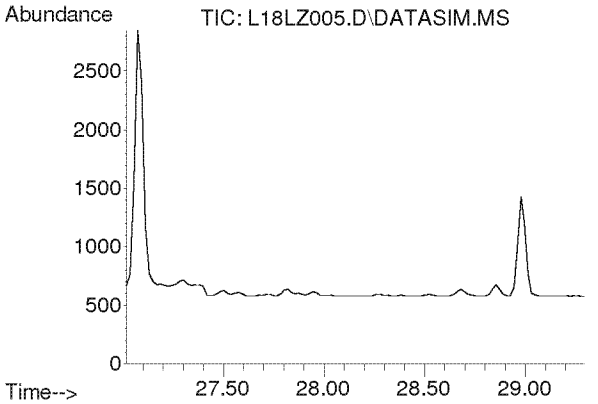
#45
Dibromochloromethane
Concen: N.D.
Expected RT: 27.73 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 129

Sig	Exp Ratio
129	100
127	19.2
131	6.0



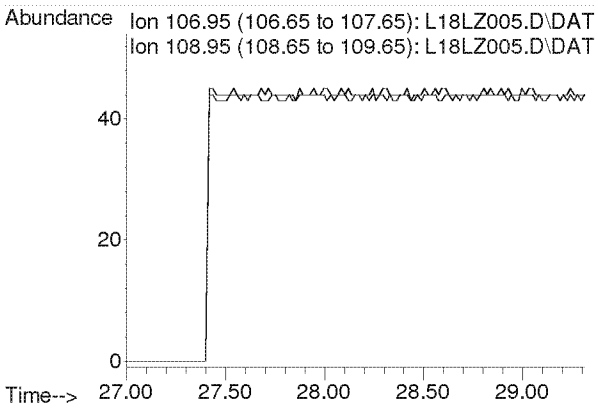


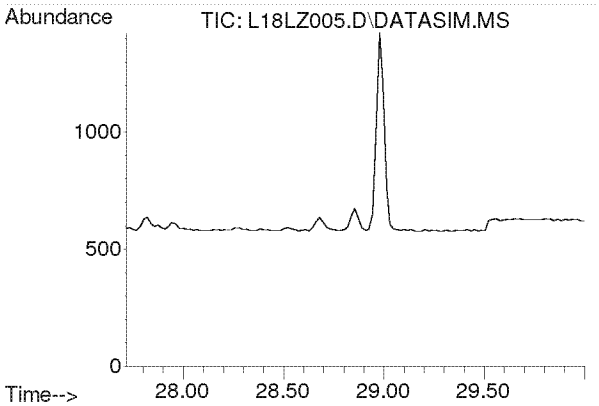
#46
1,2-Dibromoethane
Concen: N.D.
Expected RT: 28.16 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
109	94.5



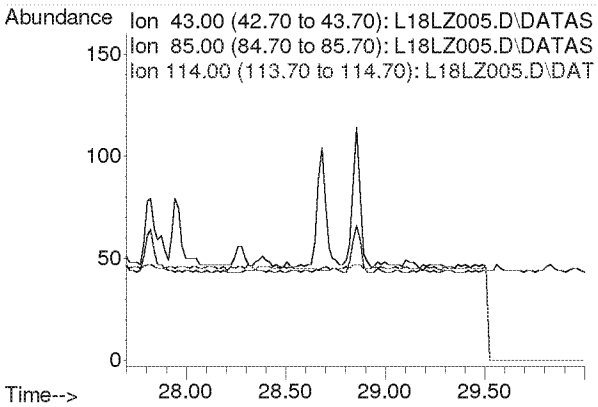


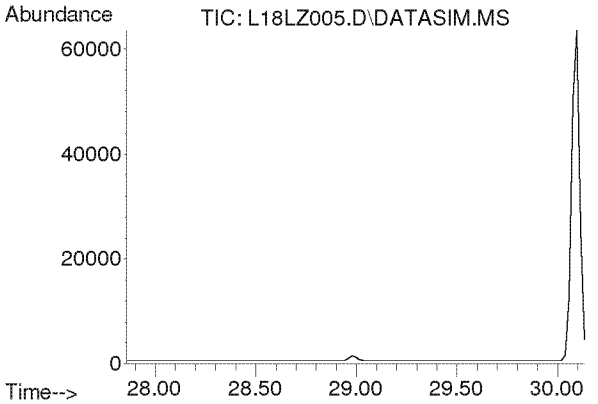
#47
n-Octane
Concen: N.D.
Expected RT: 28.86 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
85	36.0
114	2.2



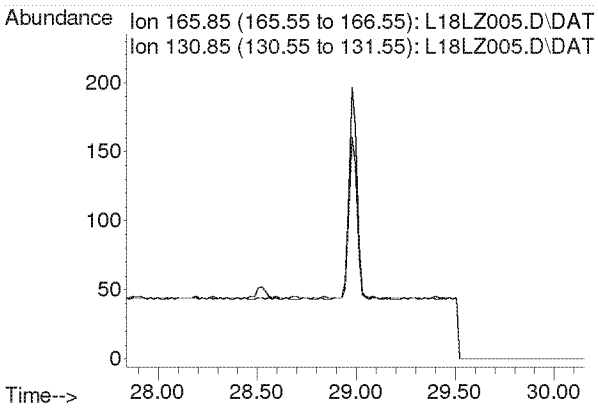


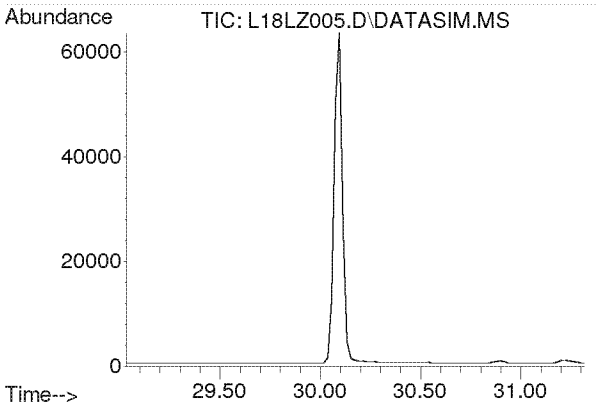
#48
Tetrachloroethylene
Concen: N.D.
Expected RT: 29.00 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 166

Sig	Exp Ratio
166	100
131	78.2



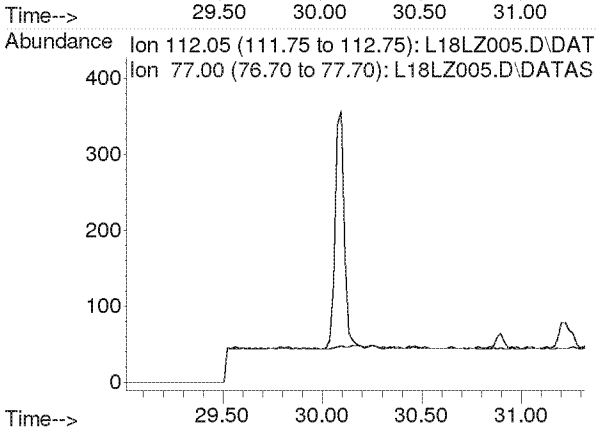


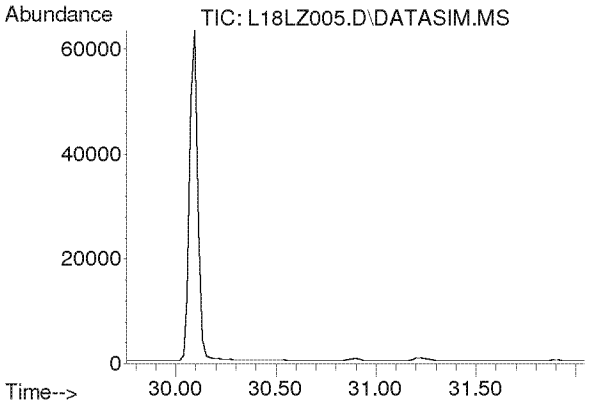
#49
Chlorobenzene
Concen: N.D.
Expected RT: 30.17 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 112

Sig	Exp Ratio
112	100
77	63.0



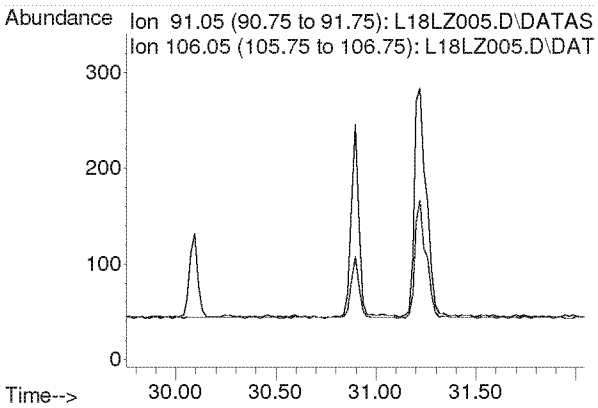


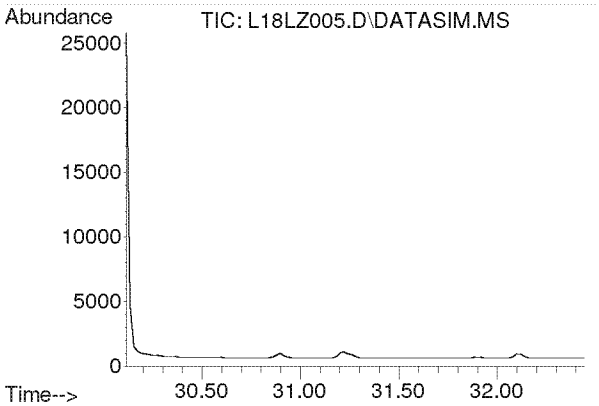
#50
Ethylbenzene
Concen: N.D.
Expected RT: 30.90 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 91

Sig	Exp Ratio
91	100
106	31.8



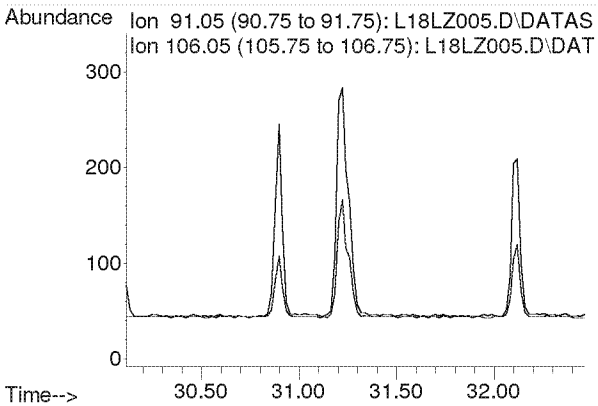


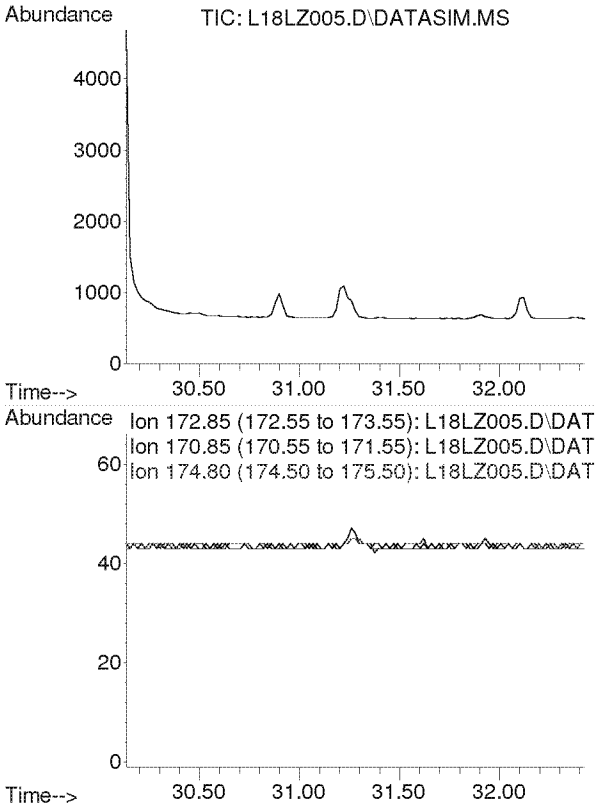
#51
m,p-Xylene
Concen: N.D.
Expected RT: 31.26 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 91

Sig	Exp Ratio
91	100
106	44.4



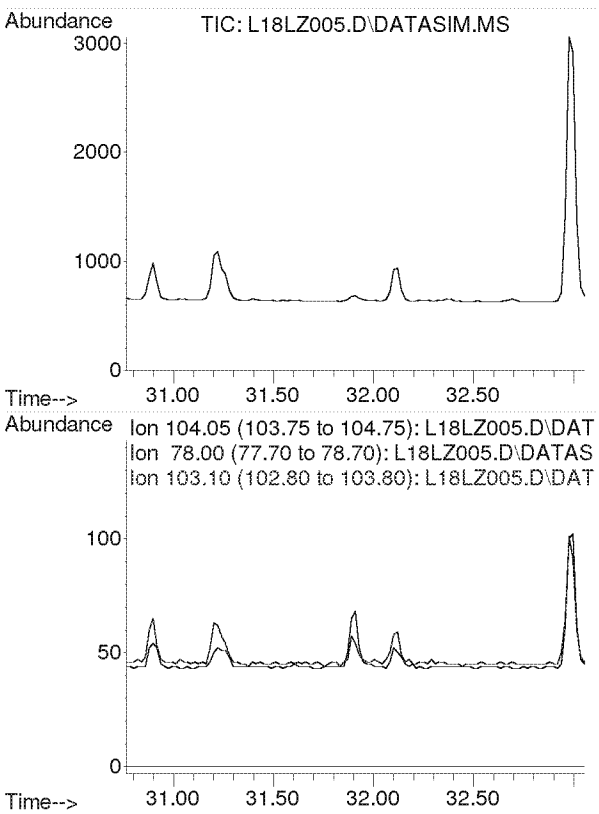


#52
Bromoform
Concen: N.D.
Expected RT: 31.28 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 173

Sig	Exp Ratio
173	100
171	51.3
175	49.0

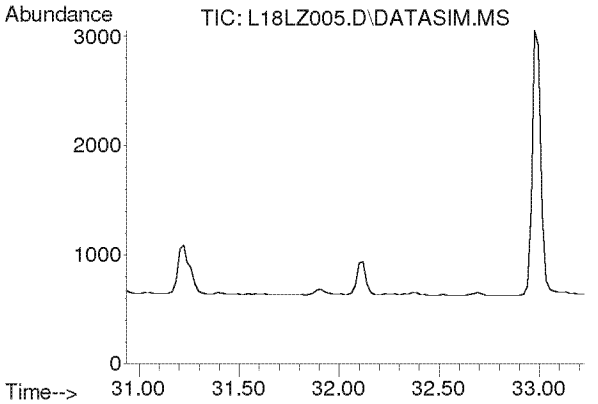


#53
Styrene
Concen: N.D.
Expected RT: 31.91 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 104

Sig	Exp Ratio
104	100
78	45.6
103	0.0

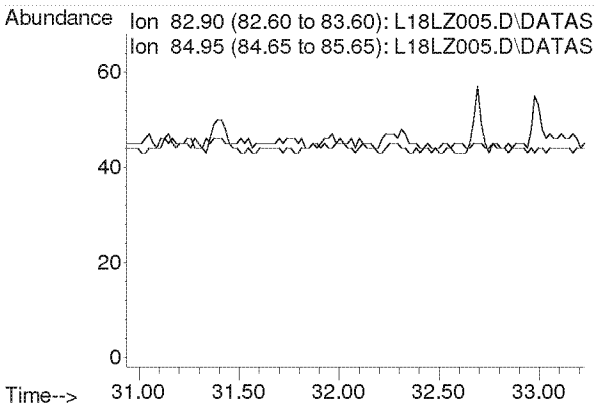


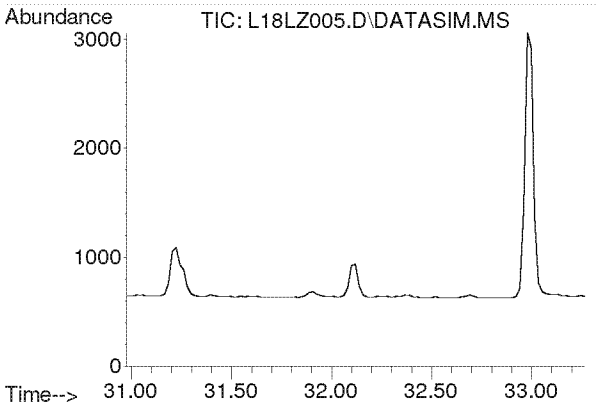
#54
1,1,2,2-Tetrachloroethane
Concen: N.D.
Expected RT: 32.08 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.9



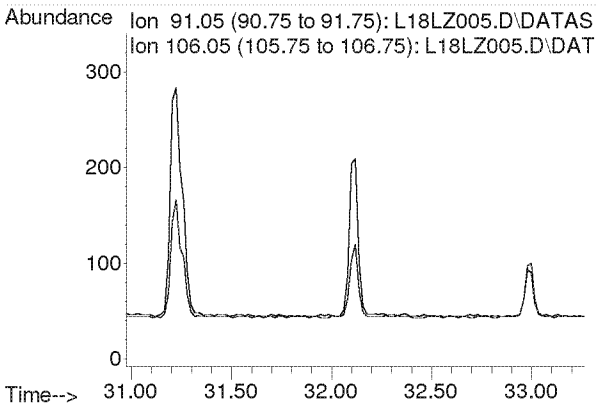


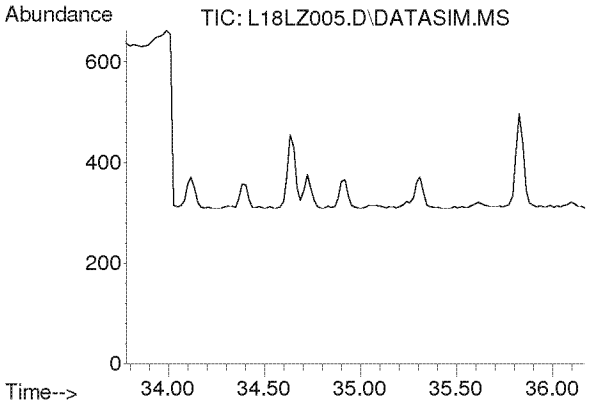
#55
o-Xylene
Concen: N.D.
Expected RT: 32.12 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 91

Sig	Exp Ratio
91	100
106	44.2



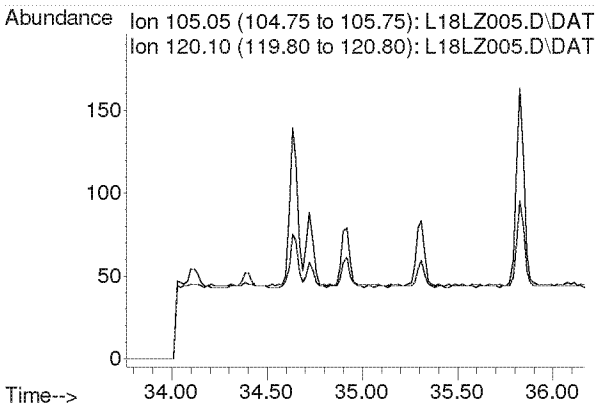


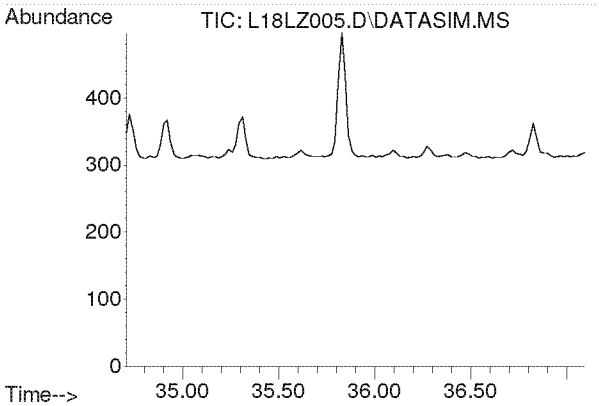
#56
1,3,5-Trimethylbenzene
Concen: N.D.
Expected RT: 34.92 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
120	45.0



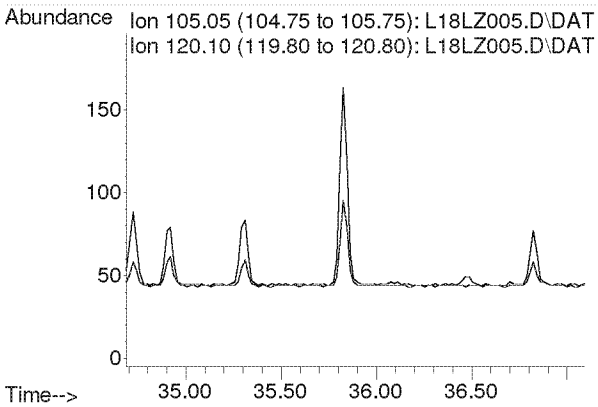


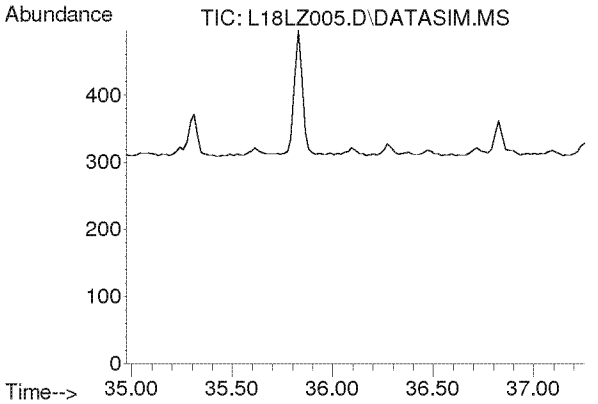
#57
1,2,4-Trimethylbenzene
Concen: N.D.
Expected RT: 35.85 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
120	42.8



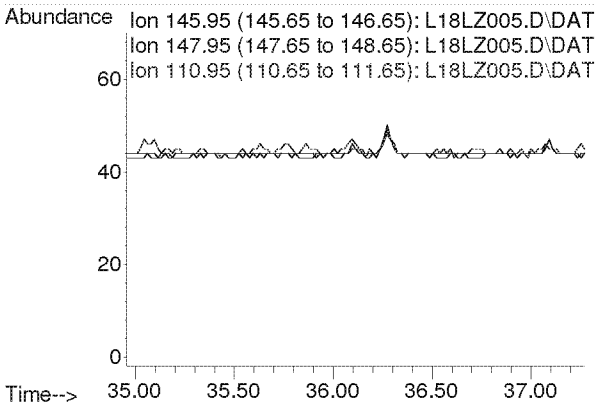


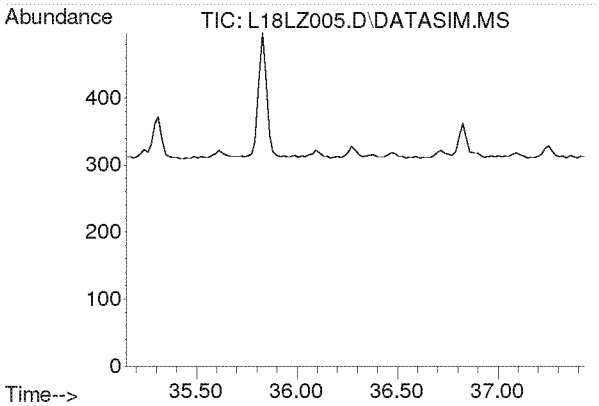
#58
m-Dichlorobenzene
Concen: N.D.
Expected RT: 36.11 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	64.0
111	40.5



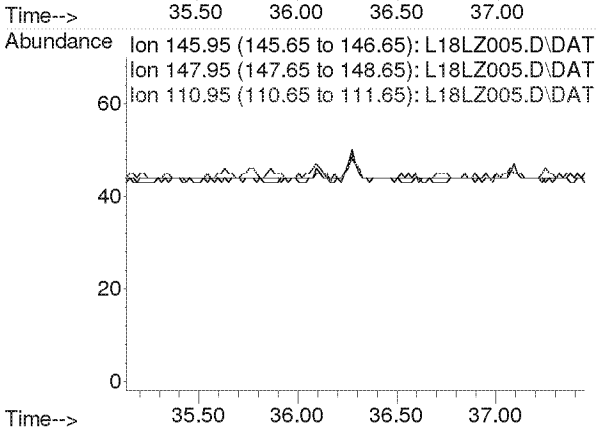


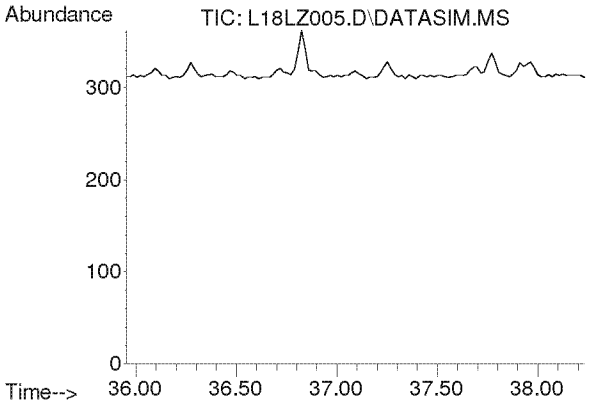
#59
p-Dichlorobenzene
Concen: N.D.
Expected RT: 36.29 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	64.0
111	39.5



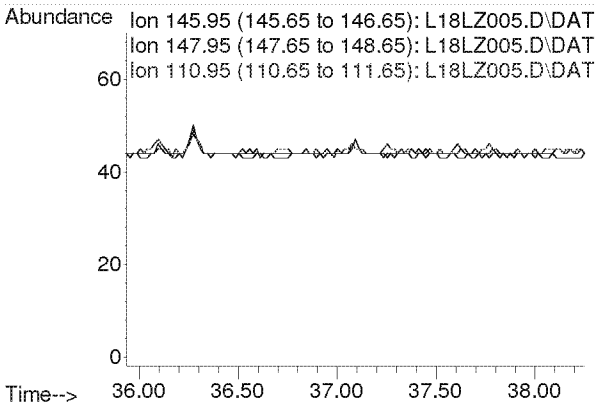


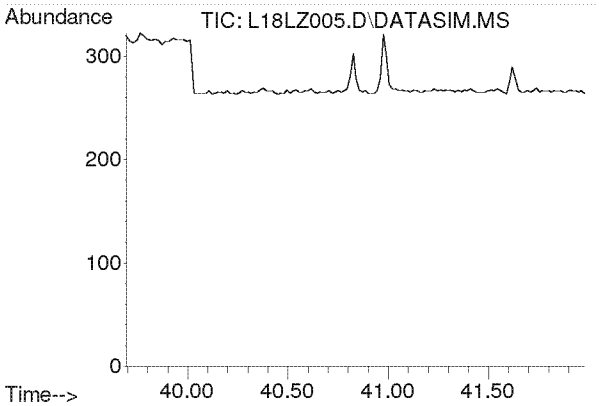
#60
o-Dichlorobenzene
Concen: N.D.
Expected RT: 37.09 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	64.1
111	41.4



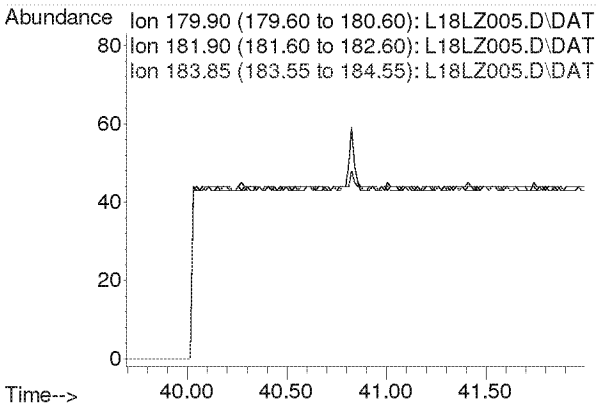


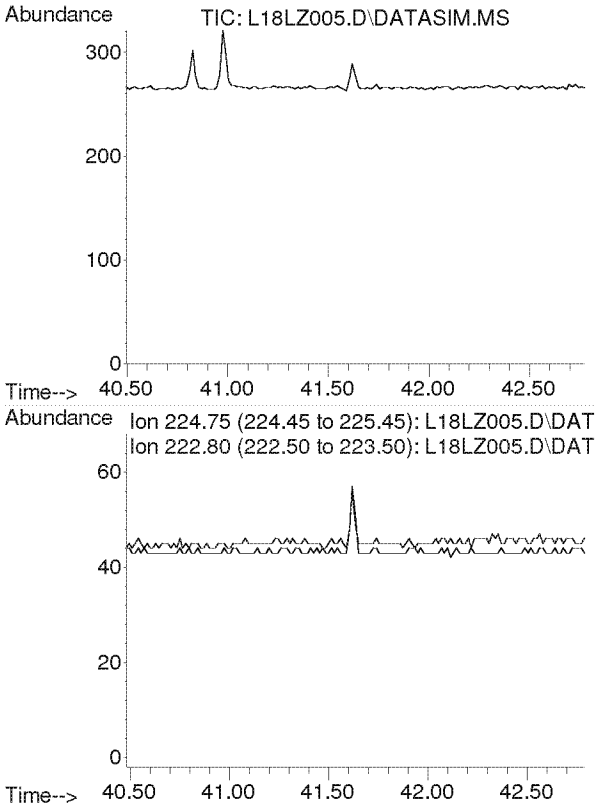
#61
1,2,4-Trichlorobenzene
Concen: N.D.
Expected RT: 40.84 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 180

Sig	Exp Ratio
180	100
182	95.1
184	30.7





#62
Hexachloro-1,3-butadiene
Concen: N.D.
Expected RT: 41.64 min

Lab File: L18LZ005.D
Acq: 26 Dec 2018 3:29 pm

Tgt Ion: 225

Sig	Exp Ratio
225	100
223	62.4

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18LZ\
Data File : L18LZ007.D
Acq On : 26 Dec 2018 5:33 pm
Operator : MAH
Sample : 8121130-17 Gower ES
Misc : GPWER ES 12/8/18 RLS 1/25/19
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 23 14:44:07 2019
Quant Method : C:\msdchem\1\METHODS\8120004.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu Dec 20 06:20:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	19.992	66	58738	4.7700 ppbv	0.00
29) IS-1,4-Difluorobenzene	23.151	114	140878	4.9900 ppbv	0.00
43) IS-Chlorobenzene-d5	30.096	117	95845	4.7400 ppbv	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Acetylene	0.000	26	0	N.D. d	
3) Propylene	0.000	41	0	N.D. d	
4) Dichlorodifluoromethane	0.000	85	0	N.D. d	
5) Chloromethane	0.000	50	0	N.D. d	
6) Dichlorotetrafluoroethane	0.000	85	0	N.D. d	
7) Vinyl Chloride	0.000	62	0	N.D.	
8) 1,3-Butadiene	0.000	54	0	N.D. d	
9) Ethylene oxide	12.485	29	319m	0.0909 ppbv	EMB 1/24/19
10) Bromomethane	0.000	94	0	N.D. d	
11) Chloroethane	0.000	64	0	N.D. d	
12) Acetonitrile	0.000	41	0	N.D. d	
13) Acrolein	0.000	56	0	N.D. d	
14) Trichlorofluoromethane	0.000	101	0	N.D. d	
15) Acrylonitrile	0.000	53	0	N.D. d	
16) 1,1-Dichloroethene	0.000	61	0	N.D.	
17) Methylene Chloride	0.000	49	0	N.D. d	
18) Carbon Disulfide	0.000	76	0	N.D. d	
19) Trichlorotrifluoroethane	0.000	101	0	N.D. d	
20) trans-1,2-Dichloroethy...	0.000	96	0	N.D.	
21) 1,1-Dichloroethane	0.000	63	0	N.D.	
22) Methyl tert-Butyl Ether	0.000	73	0	N.D. d	
23) Chloroprene	0.000	53	0	N.D. d	
24) cis-1,2-Dichloroethylene	0.000	61	0	N.D. d	
25) Bromochloromethane	0.000	128	0	N.D.	
26) Chloroform	0.000	83	0	N.D. d	
27) Ethyl tert-Butyl Ether	0.000	59	0	N.D.	
28) 1,2-Dichloroethane	0.000	62	0	N.D. d	
30) 1,1,1-Trichloroethane	0.000	97	0	N.D.	
31) Benzene	0.000	78	0	N.D. d	
32) Carbon Tetrachloride	0.000	117	0	N.D. d	
33) tert-Amyl Methyl Ether	0.000	73	0	N.D.	
34) 1,2-Dichloropropane	0.000	63	0	N.D. d	
35) Ethyl Acrylate	0.000	55	0	N.D.	
36) Bromodichloromethane	0.000	83	0	N.D. d	
37) Trichloroethylene	0.000	130	0	N.D. d	
38) Methyl Methacrylate	0.000	41	0	N.D. d	
39) cis-1,3-Dichloropropene	0.000	75	0	N.D.	
40) Methyl Isobutyl Ketone	0.000	43	0	N.D. d	
41) trans-1,3-Dichloropropene	0.000	75	0	N.D.	
42) 1,1,2-Trichloroethane	0.000	97	0	N.D.	
44) Toluene	0.000	91	0	N.D. d	
45) Dibromochloromethane	0.000	129	0	N.D.	
46) 1,2-Dibromoethane	0.000	107	0	N.D.	
47) n-Octane	0.000	43	0	N.D. d	
48) Tetrachloroethylene	0.000	166	0	N.D. d	
49) Chlorobenzene	0.000	112	0	N.D.	
50) Ethylbenzene	0.000	91	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18LZ\
Data File : L18LZ007.D
Acq On : 26 Dec 2018 5:33 pm
Operator : MAH
Sample : 8121130-17
Misc : GPWER ES 12/8/18
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 23 14:44:07 2019
Quant Method : C:\msdchem\1\METHODS\8120004.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu Dec 20 06:20:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) m,p-Xylene	0.000	91	0	N.D.	d
52) Bromoform	0.000	173	0	N.D.	
53) Styrene	0.000	104	0	N.D.	d
54) 1,1,2,2-Tetrachloroethane	0.000	83	0	N.D.	
55) o-Xylene	0.000	91	0	N.D.	d
56) 1,3,5-Trimethylbenzene	0.000	105	0	N.D.	d
57) 1,2,4-Trimethylbenzene	0.000	105	0	N.D.	d
58) m-Dichlorobenzene	0.000	146	0	N.D.	
59) p-Dichlorobenzene	0.000	146	0	N.D.	
60) o-Dichlorobenzene	0.000	146	0	N.D.	
61) 1,2,4-Trichlorobenzene	0.000	180	0	N.D.	
62) Hexachloro-1,3-butadiene	0.000	225	0	N.D.	

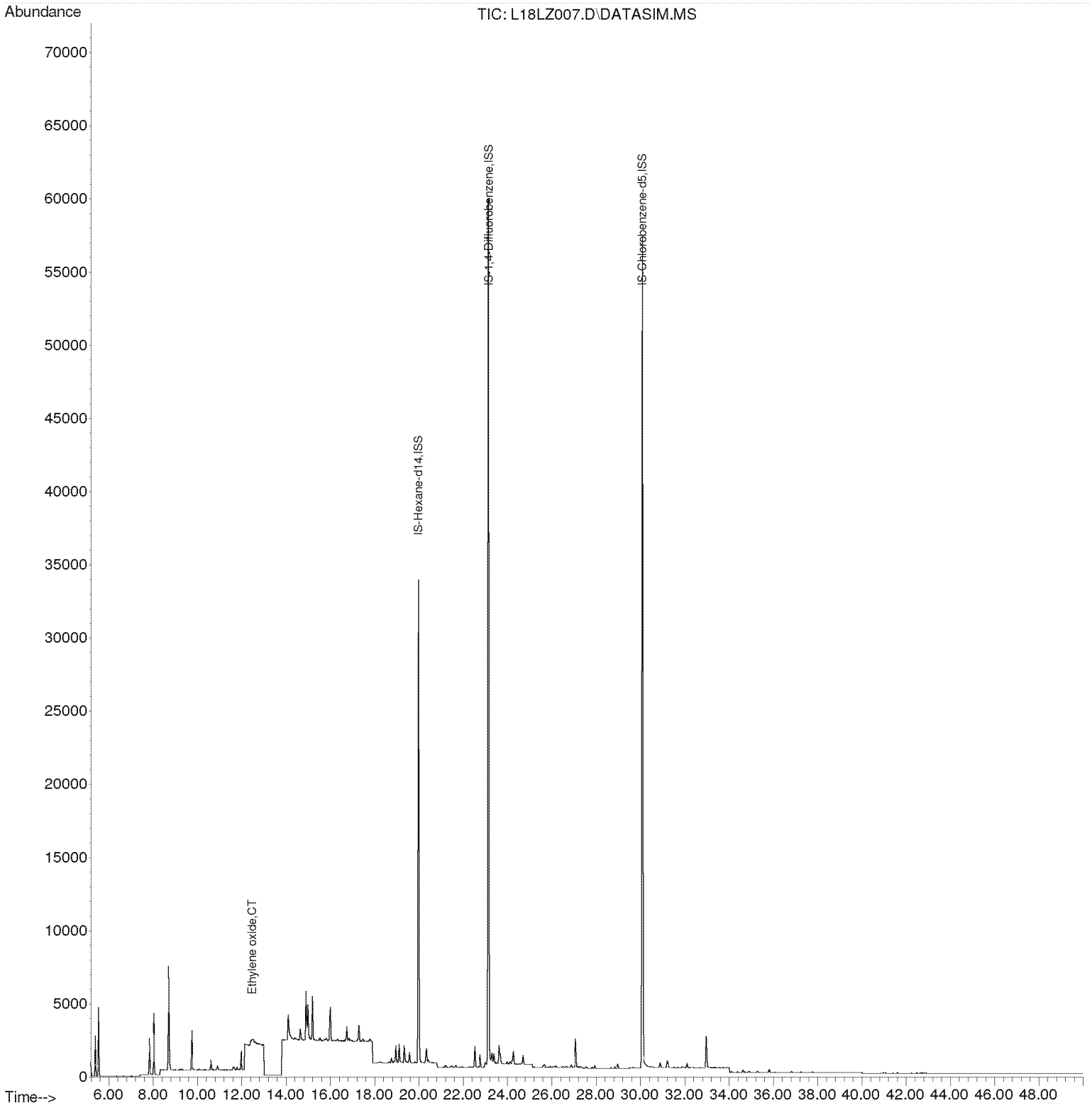
(#) = qualifier out of range (m) = manual integration (+) = signals summed

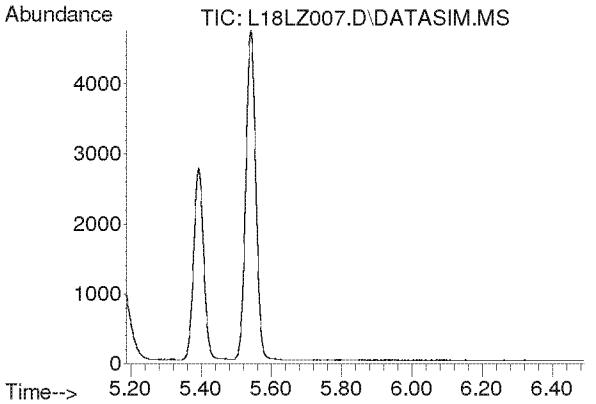
ED_002475_00000118-00035

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18LZ\
Data File : L18LZ007.D
Acq On : 26 Dec 2018 5:33 pm
Operator : MAH
Sample : 8121130-17
Misc : GPWER ES 12/8/18
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 03 10:24:34 2019
Quant Method : C:\msdchem\1\METHODS\8120004.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu Dec 20 06:20:47 2018
Response via : Initial Calibration

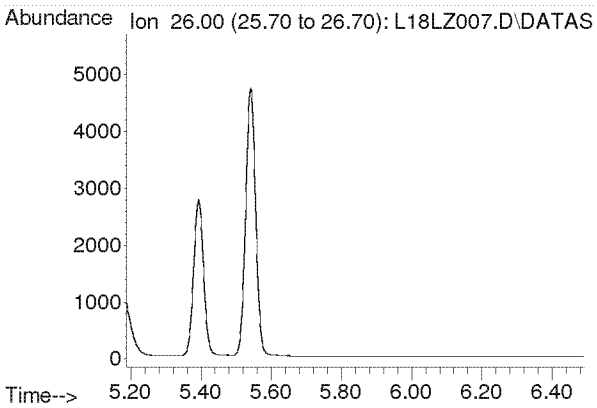


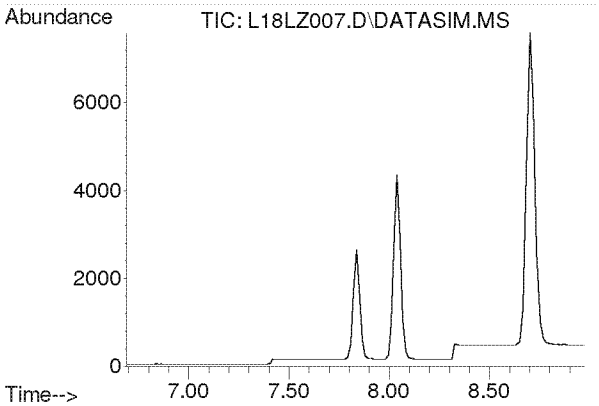


#2
Acetylene
Concen: N.D.
Expected RT: 5.42 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 26



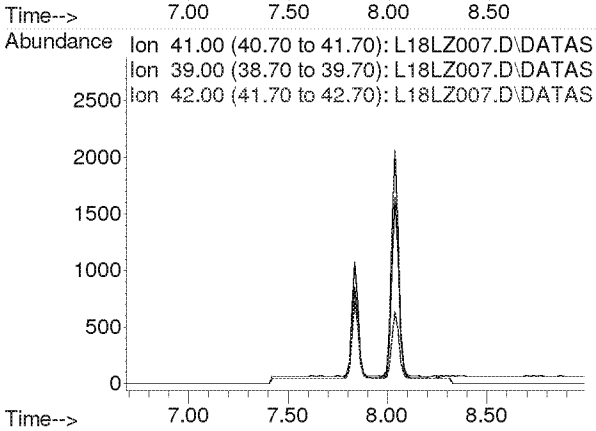


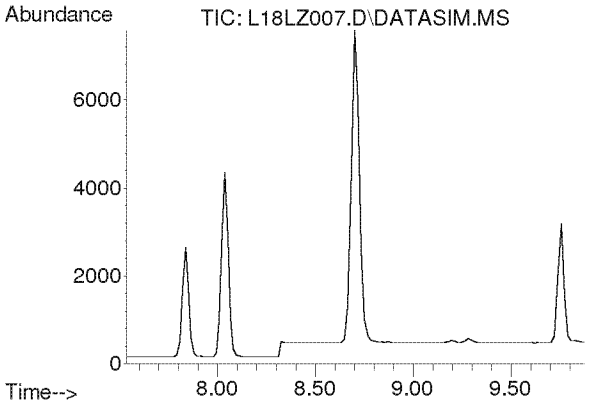
#3
Propylene
Concen: N.D.
Expected RT: 7.84 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 41

Sig	Exp Ratio
41	100
39	78.2
42	65.8



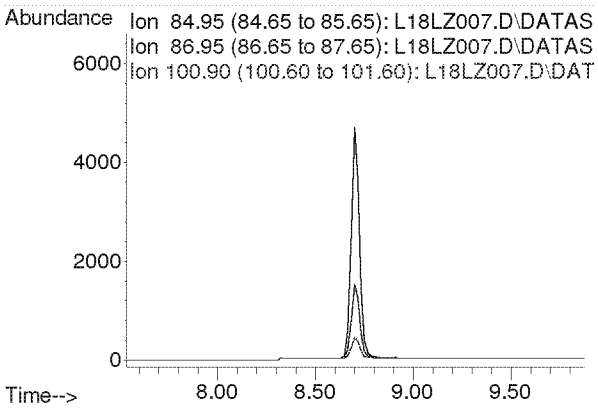


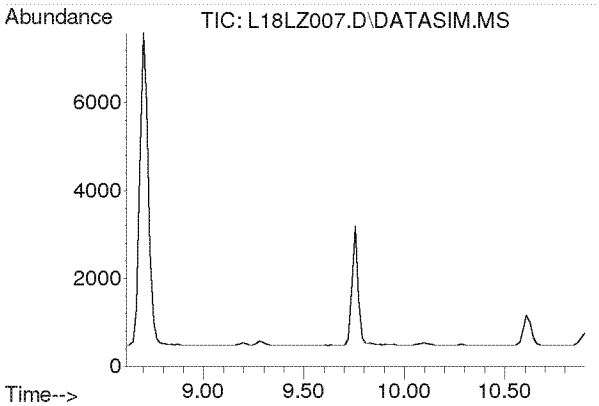
#4
Dichlorodifluoromethane
Concen: N.D.
Expected RT: 8.68 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 85

Sig	Exp Ratio
85	100
87	32.5
101	8.9



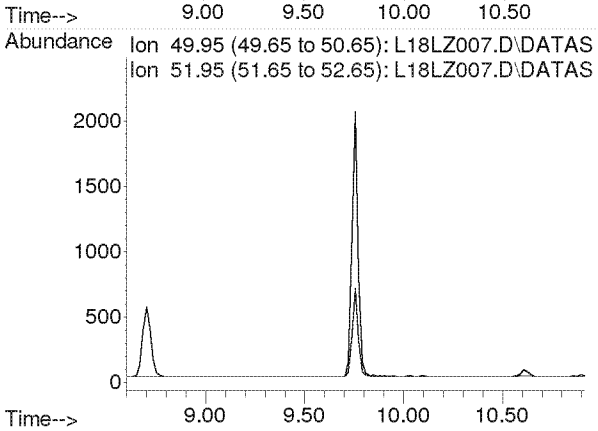


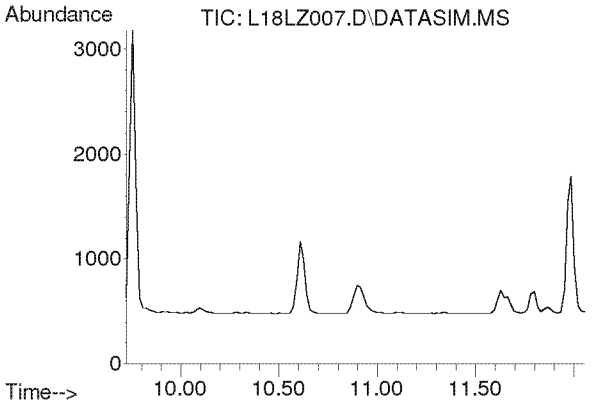
#5
Chloromethane
Concen: N.D.
Expected RT: 9.76 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 50

Sig	Exp Ratio
50	100
52	32.6



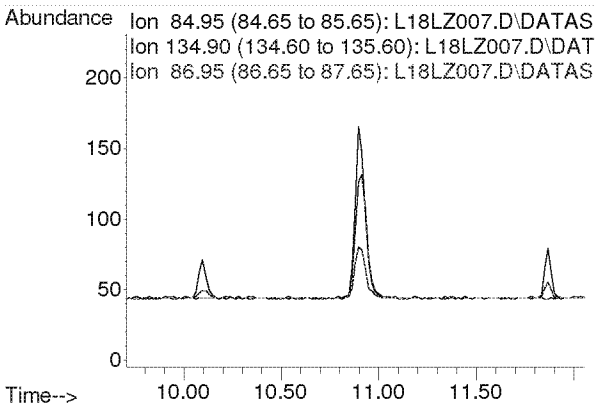


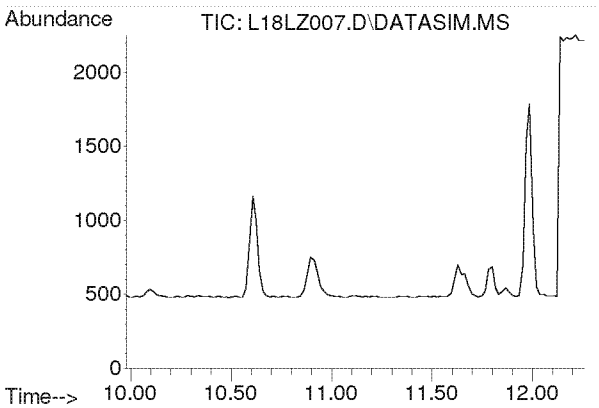
#6
Dichlorotetrafluoroethane
Concen: N.D.
Expected RT: 10.86 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 85

Sig	Exp Ratio
85	100
135	79.1
87	32.1



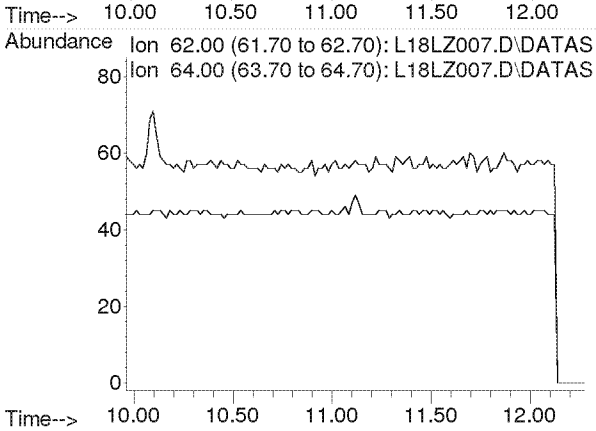


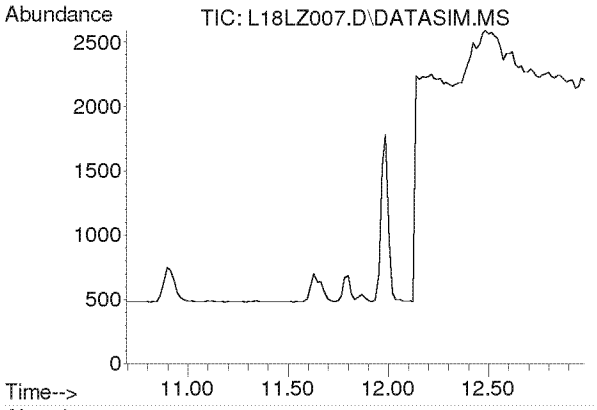
#7
Vinyl Chloride
Concen: N.D.
Expected RT: 11.12 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 62

Sig	Exp Ratio
62	100
64	31.8



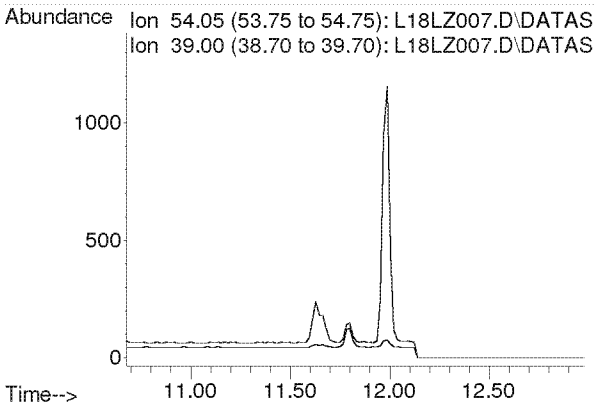


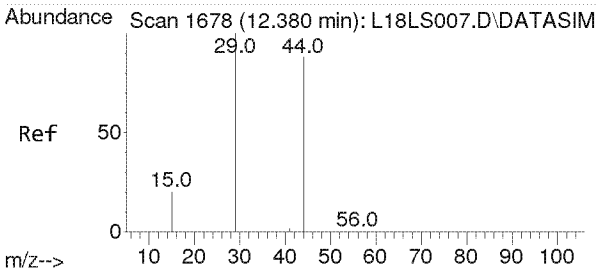
#8
1,3-Butadiene
Concen: N.D.
Expected RT: 11.78 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 54

Sig	Exp Ratio
54	100
39	105.4

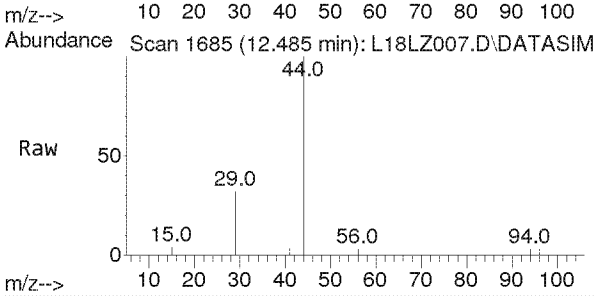


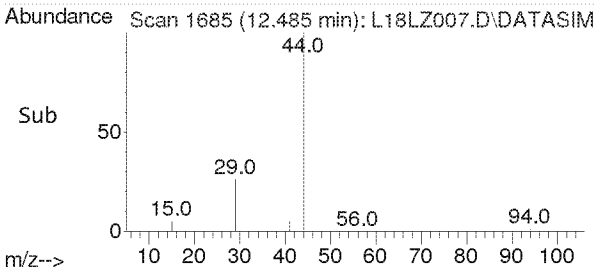


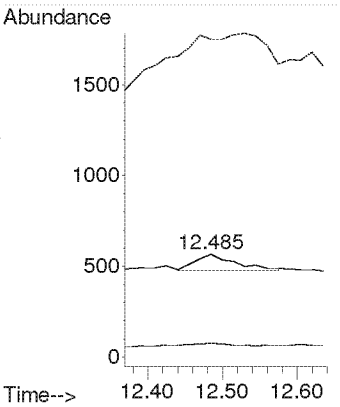
#9
Ethylene oxide
Concen: 0.091 ppbv m
RT: 12.485 min Scan# 1685
Delta R.T. 0.105 min
Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

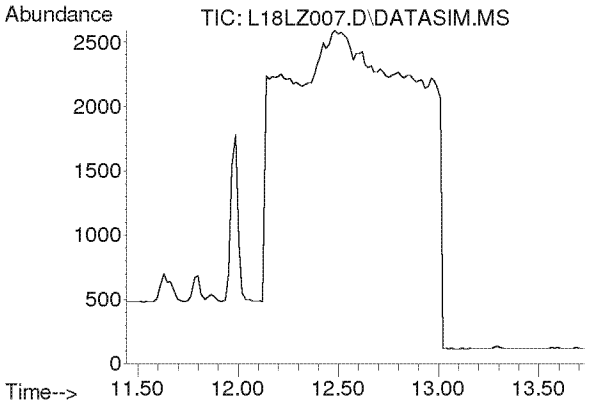
Tgt Ion: 29 Resp: 319

Ion	Ratio	Lower	Upper
29	100		
15	0.0	16.2	24.4#
44	0.0	72.0	108.0#







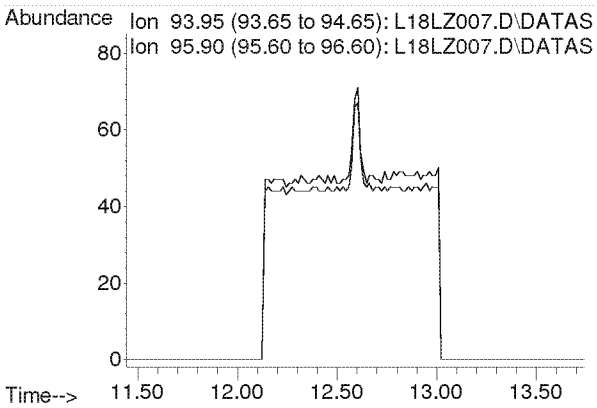


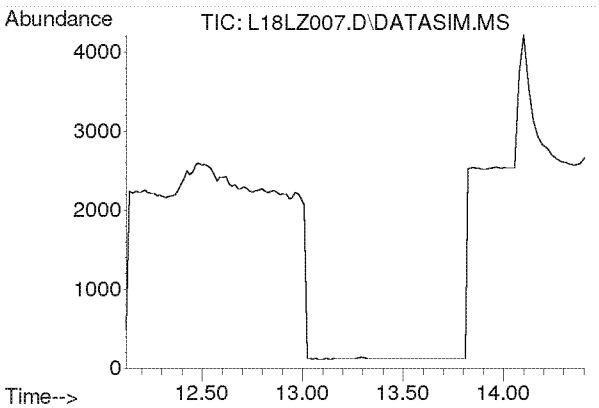
#10
Bromomethane
Concen: N.D.
Expected RT: 12.59 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 94

Sig	Exp Ratio
94	100
96	93.9



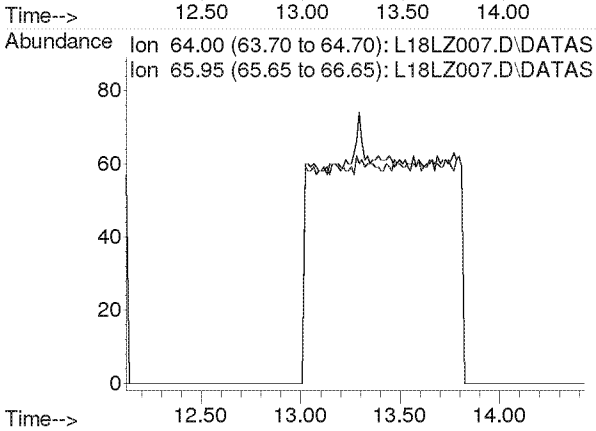


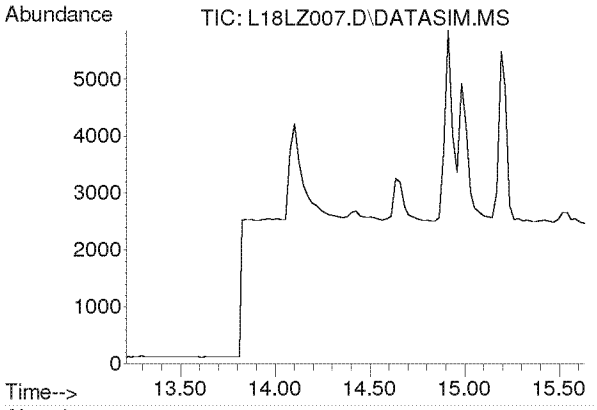
#11
Chloroethane
Concen: N.D.
Expected RT: 13.27 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 64

Sig	Exp Ratio
64	100
66	32.0



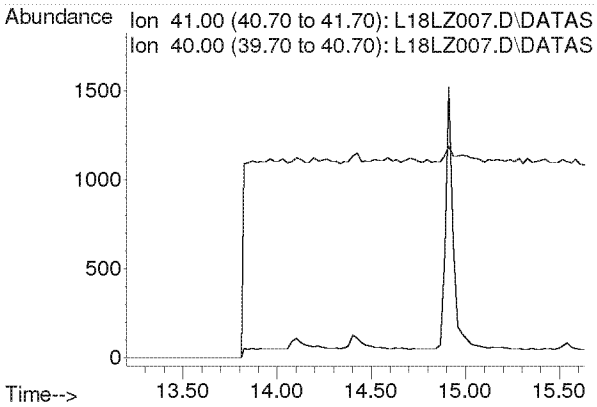


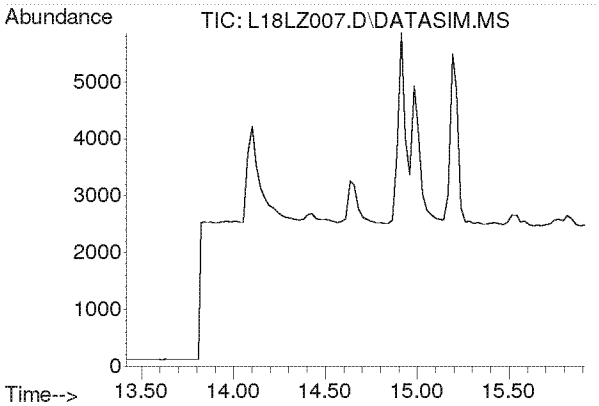
#12
Acetonitrile
Concen: N.D.
Expected RT: 14.33 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 41

Sig	Exp Ratio
41	100
40	50.9



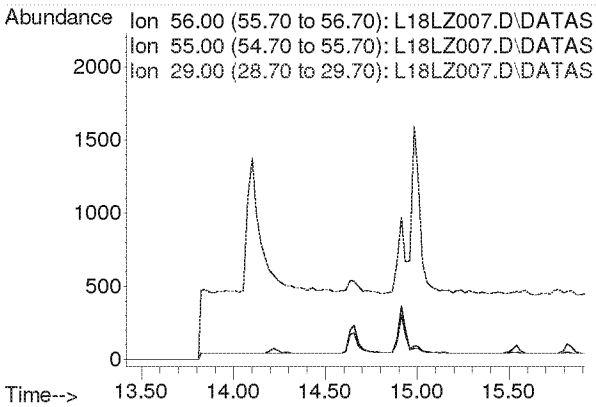


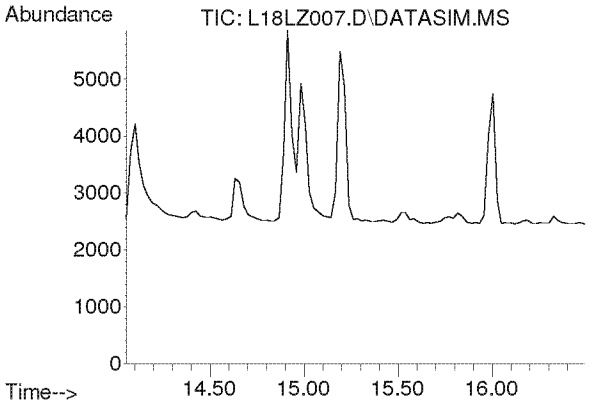
#13
Acrolein
Concen: N.D.
Expected RT: 14.61 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 56

Sig	Exp Ratio
56	100
55	75.4
29	52.9



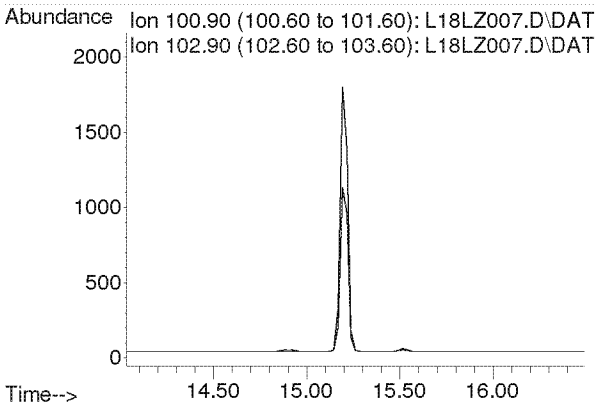


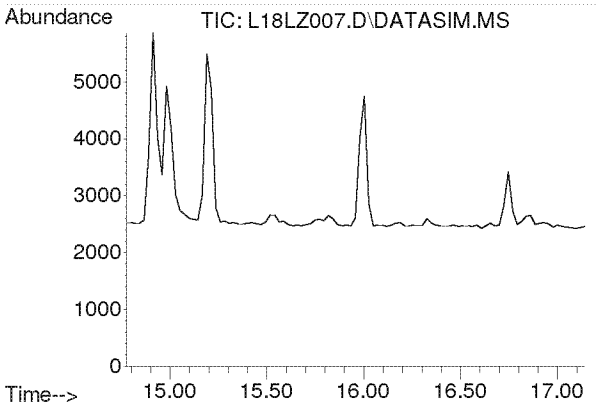
#14
Trichlorofluoromethane
Concen: N.D.
Expected RT: 15.19 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 101

Sig	Exp Ratio
101	100
103	64.6



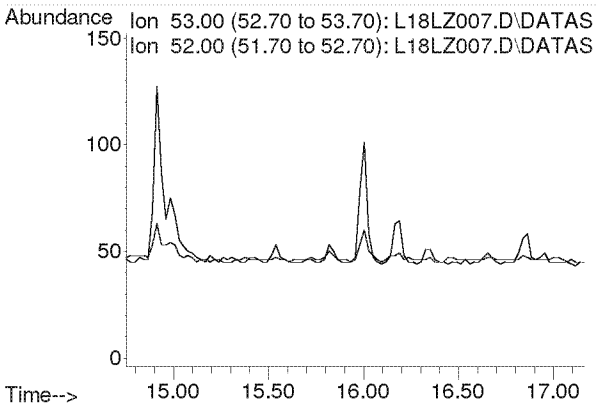


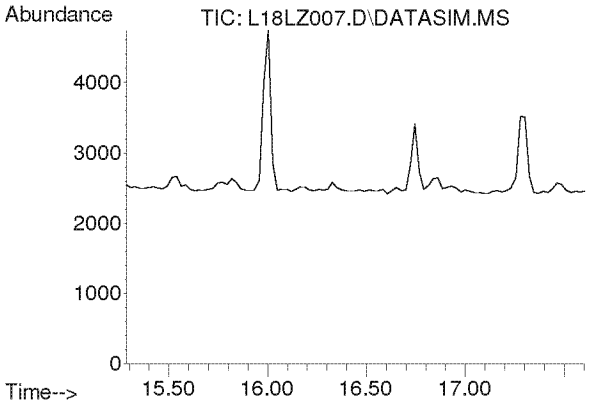
#15
Acrylonitrile
Concen: N.D.
Expected RT: 15.91 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 53

Sig	Exp Ratio
53	100
52	85.4



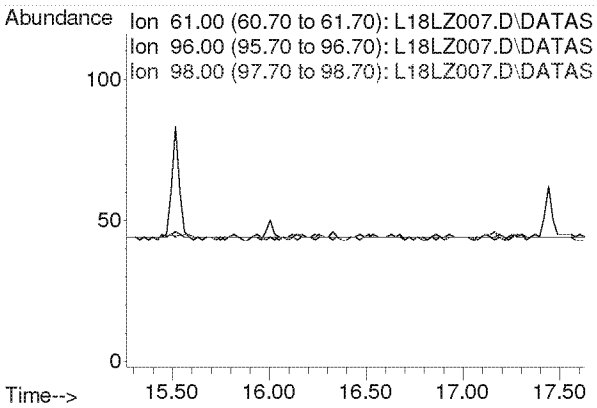


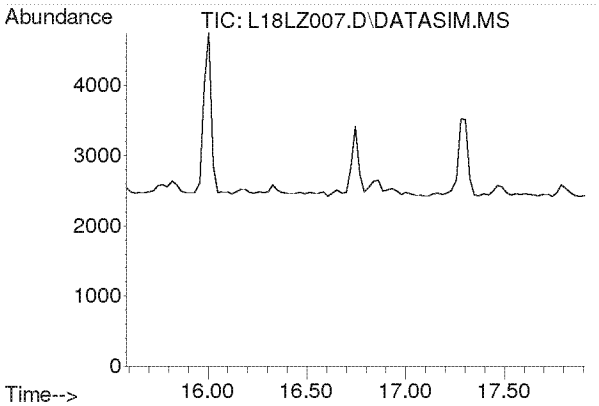
#16
1,1-Dichloroethene
Concen: N.D.
Expected RT: 16.42 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	58.3
98	37.4



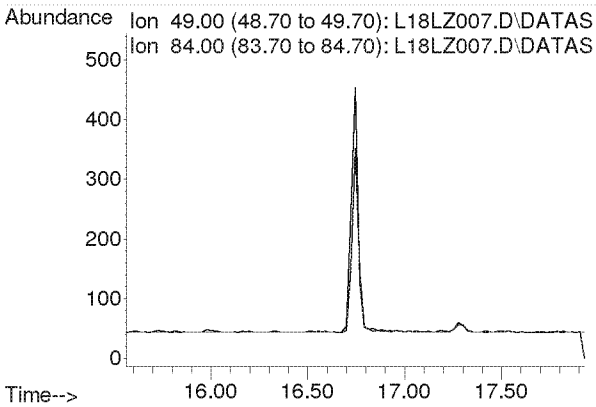


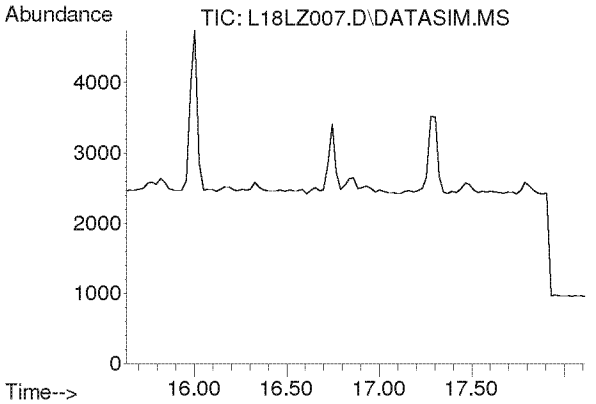
#17
Methylene Chloride
Concen: N.D.
Expected RT: 16.72 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 49

Sig	Exp Ratio
49	100
84	76.4



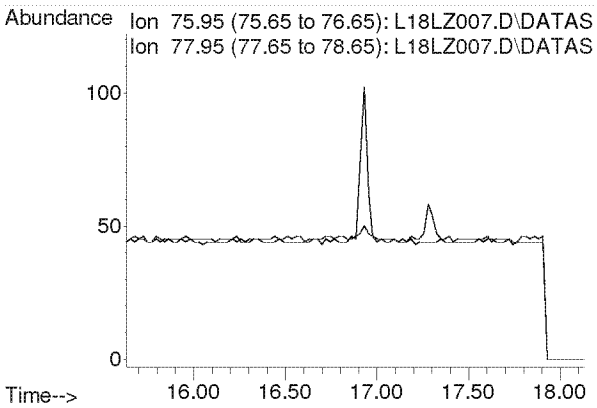


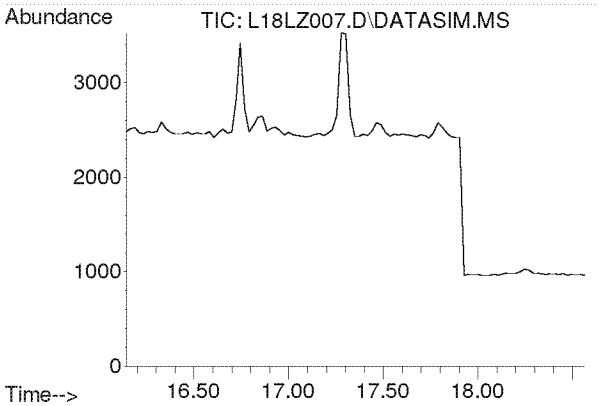
#18
Carbon Disulfide
Concen: N.D.
Expected RT: 16.93 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 76

Sig	Exp Ratio
76	100
78	9.1



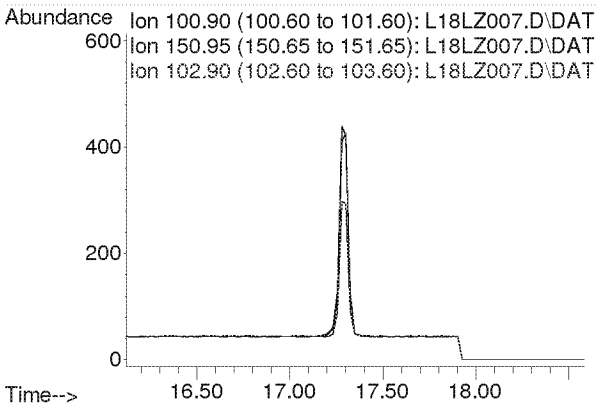


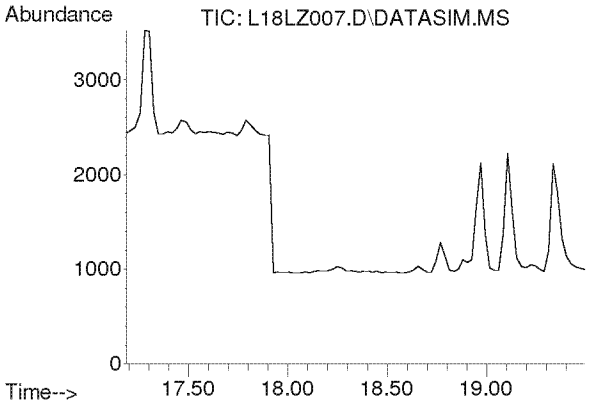
#19
Trichlorotrifluoroethane
Concen: N.D.
Expected RT: 17.28 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 101

Sig	Exp Ratio
101	100
151	95.3
103	64.1



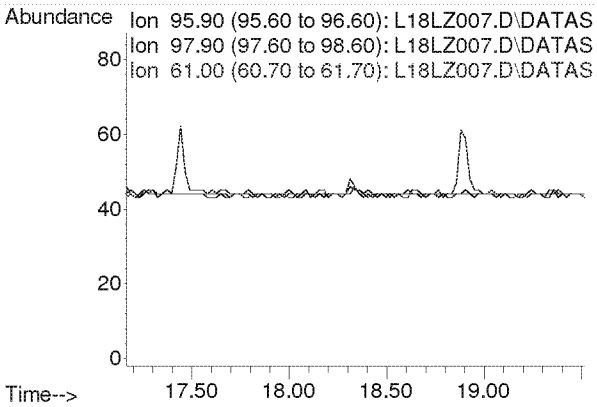


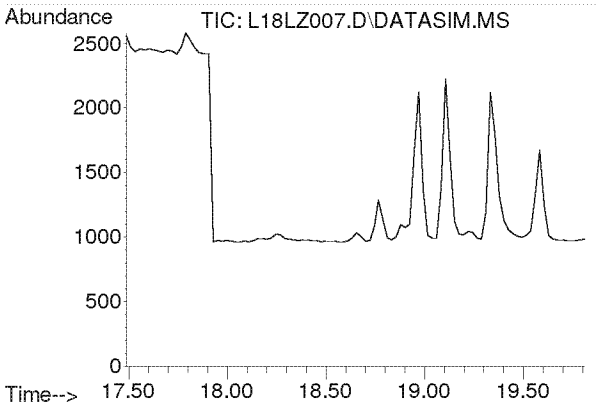
#20
trans-1,2-Dichloroethylene
Concen: N.D.
Expected RT: 18.31 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 96

Sig	Exp Ratio
96	100
98	63.7
61	159.2



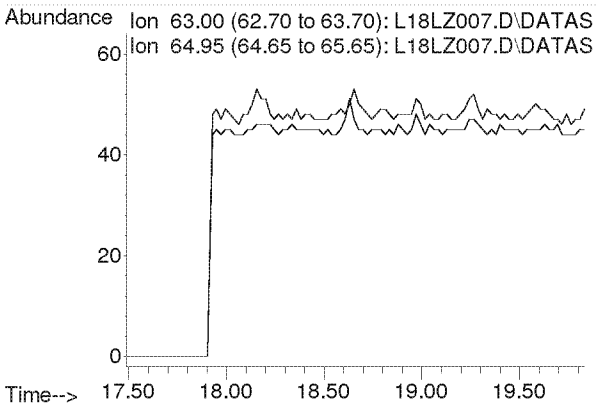


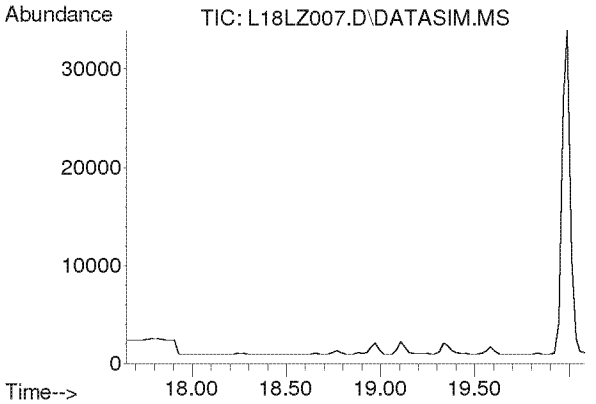
#21
1,1-Dichloroethane
Concen: N.D.
Expected RT: 18.63 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
65	31.7



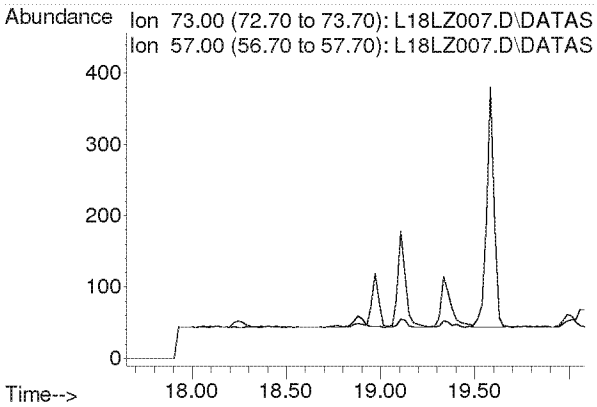


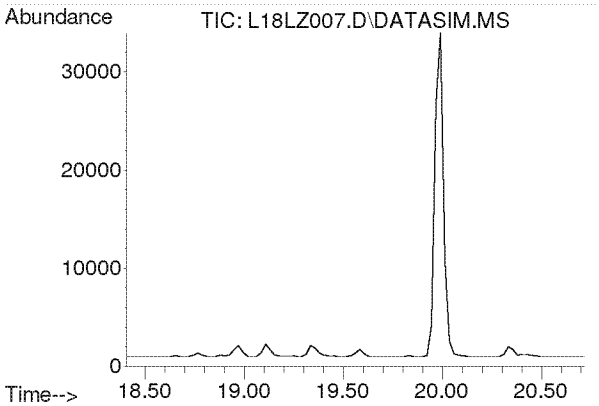
#22
Methyl tert-Butyl Ether
Concen: N.D.
Expected RT: 18.79 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 73

Sig	Exp Ratio
73	100
57	23.4



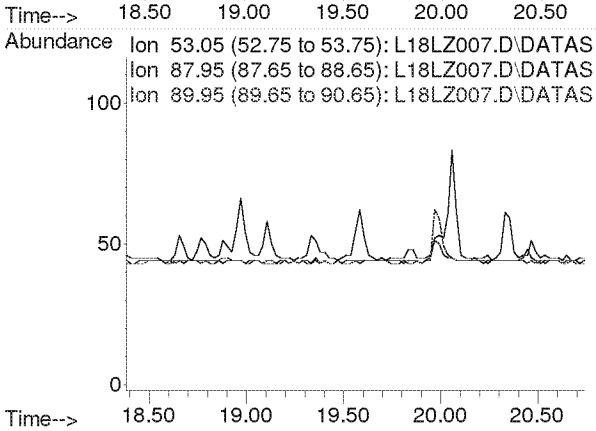


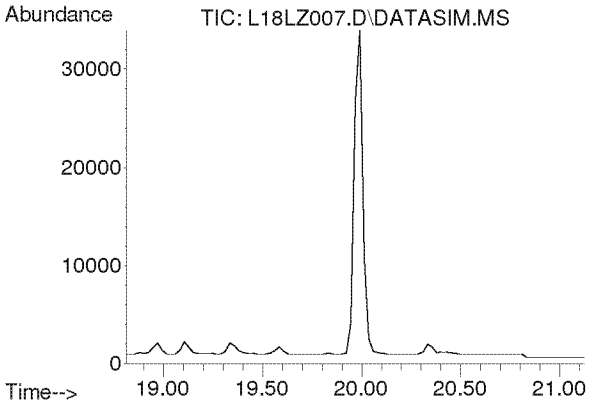
#23
Chloroprene
Concen: N.D.
Expected RT: 19.54 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 53

Sig	Exp Ratio
53	100
88	51.8
90	16.8



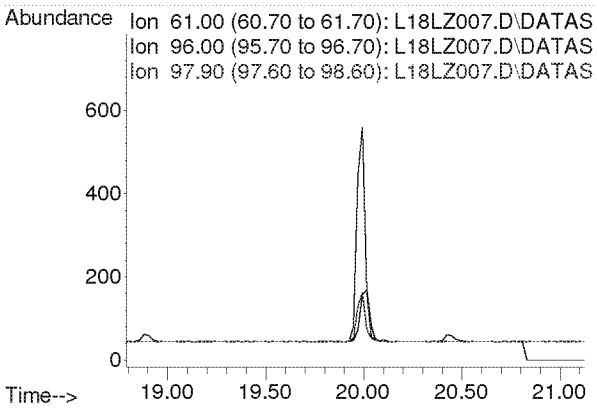


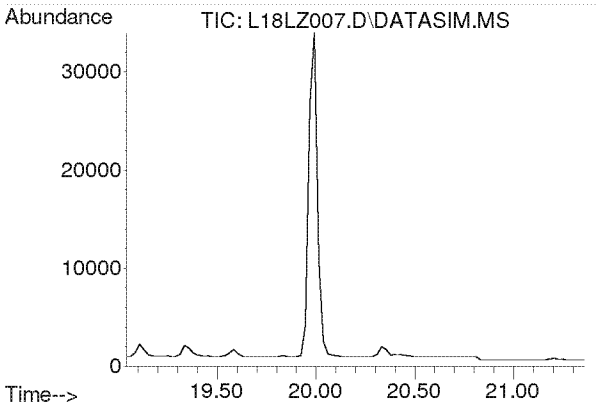
#24
cis-1,2-Dichloroethylene
Concen: N.D.
Expected RT: 19.95 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 61

Sig	Exp Ratio
61	100
96	73.7
98	45.2



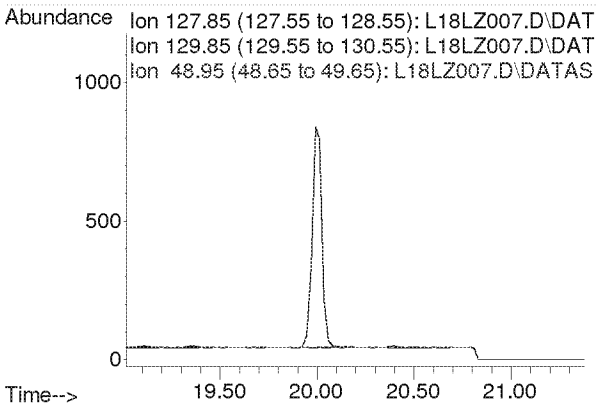


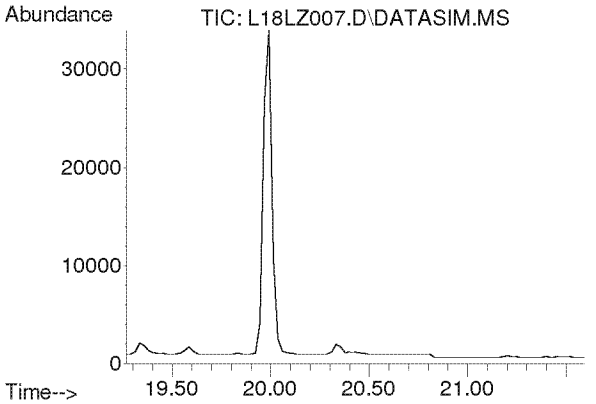
#25
Bromochloromethane
Concen: N.D.
Expected RT: 20.17 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 128

Sig	Exp Ratio
128	100
130	129.1
49	171.2



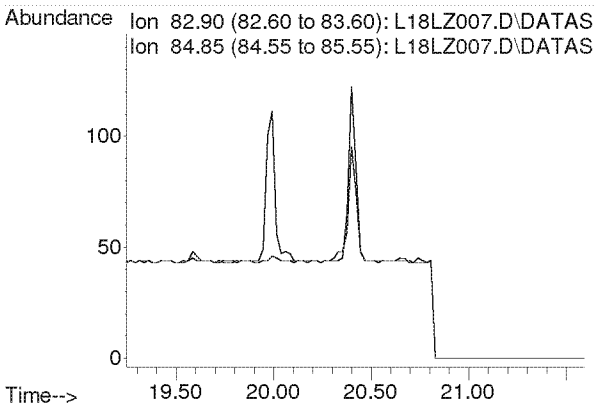


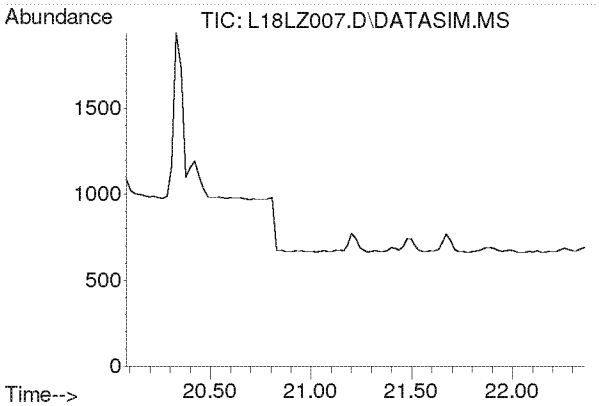
#26
Chloroform
Concen: N.D.
Expected RT: 20.40 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	64.4



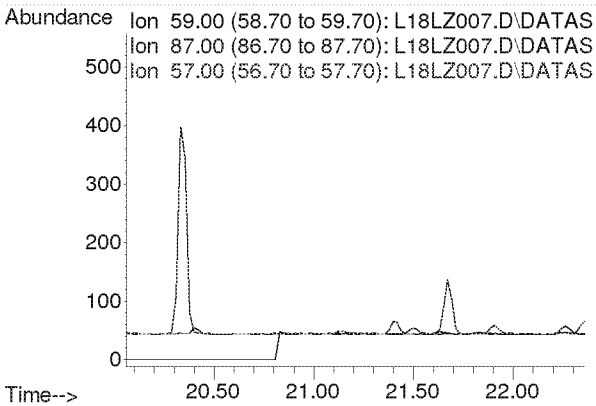


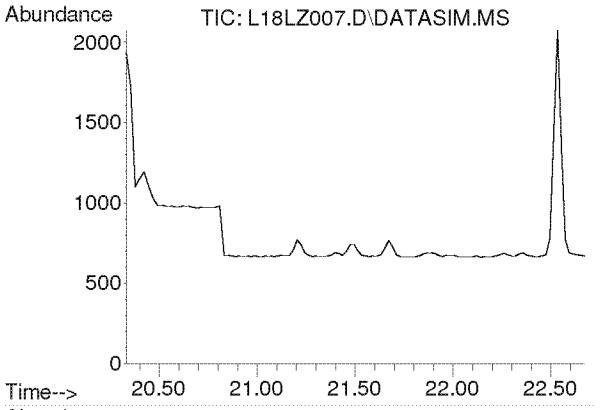
#27
Ethyl tert-Butyl Ether
Concen: N.D.
Expected RT: 21.16 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 59

Sig	Exp Ratio
59	100
87	37.5
57	33.8



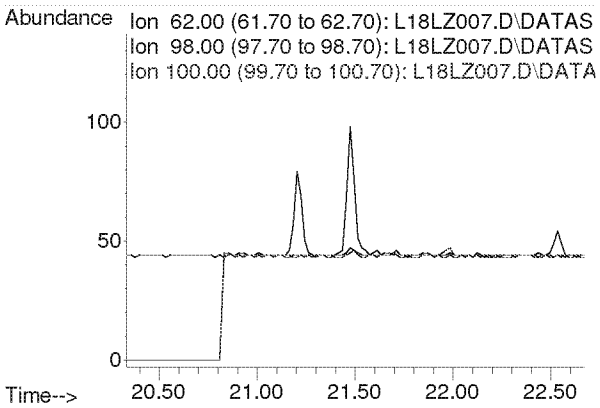


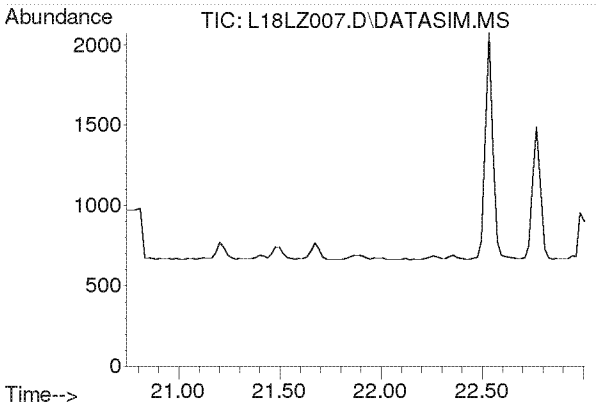
#28
1,2-Dichloroethane
Concen: N.D.
Expected RT: 21.48 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 62

Sig	Exp Ratio
62	100
98	6.4
100	4.0



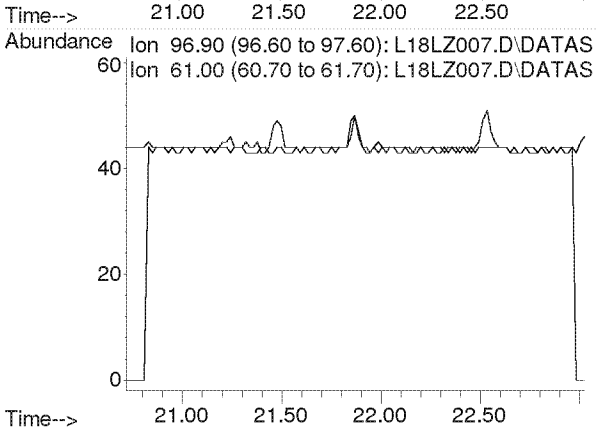


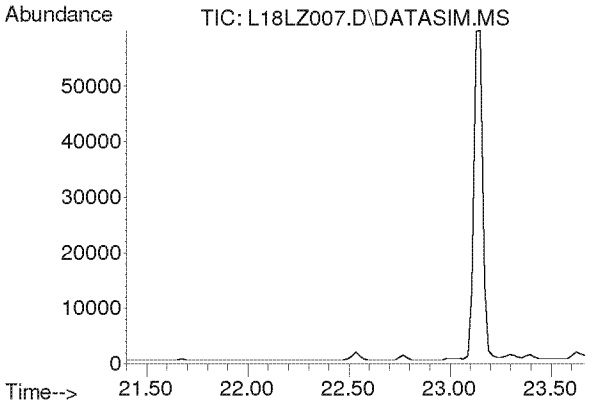
#30
1,1,1-Trichloroethane
Concen: N.D.
Expected RT: 21.87 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 97

Sig	Exp Ratio
97	100
61	60.5



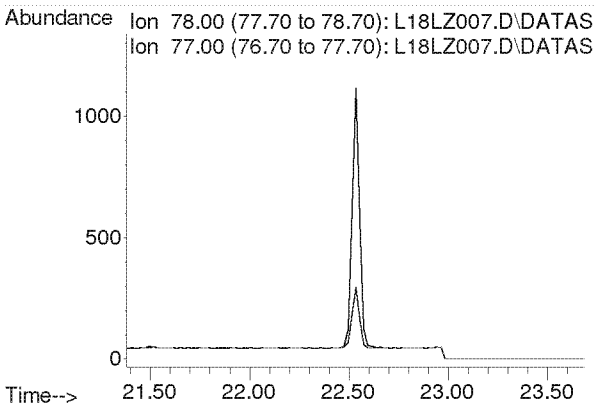


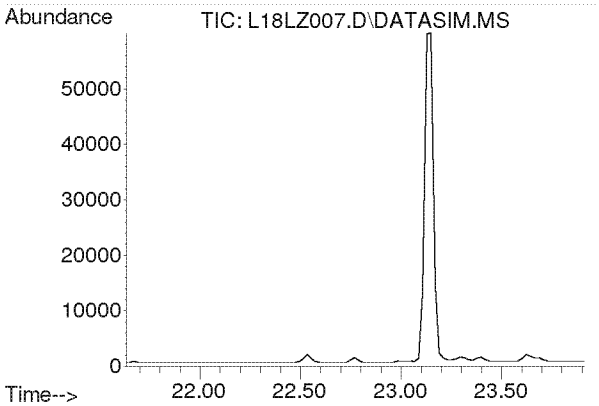
#31
Benzene
Concen: N.D.
Expected RT: 22.54 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 78

Sig	Exp Ratio
78	100
77	22.7



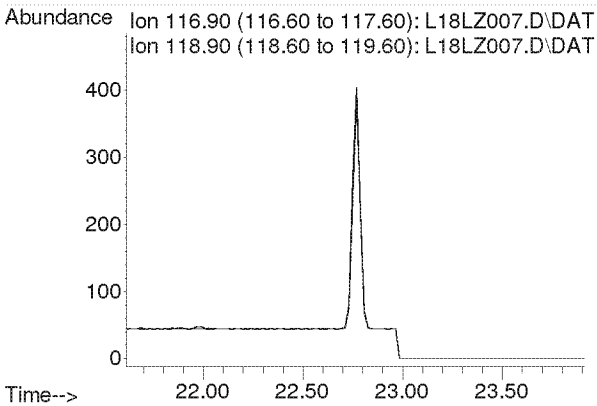


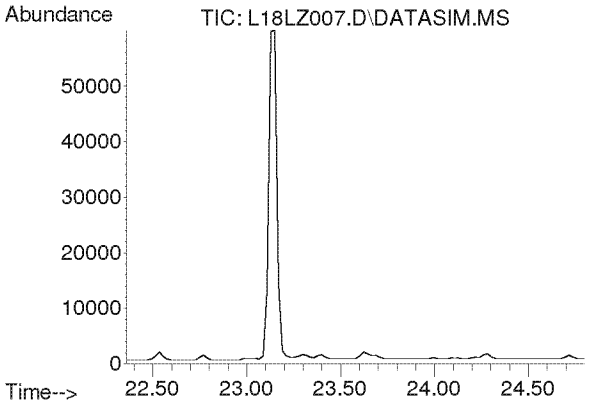
#32
Carbon Tetrachloride
Concen: N.D.
Expected RT: 22.77 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 117

Sig	Exp Ratio
117	100
119	96.5



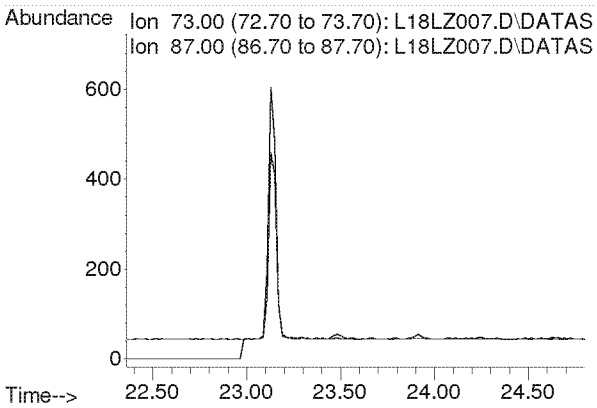


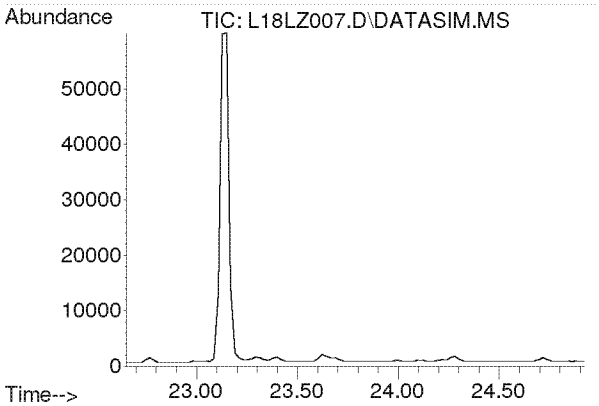
#33
tert-Amyl Methyl Ether
Concen: N.D.
Expected RT: 23.50 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 73

Sig	Exp Ratio
73	100
87	24.9



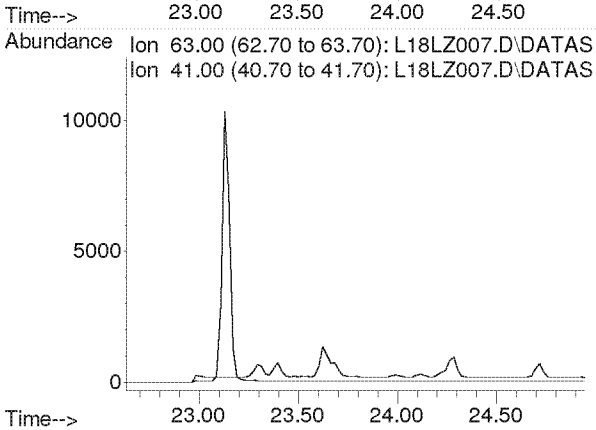


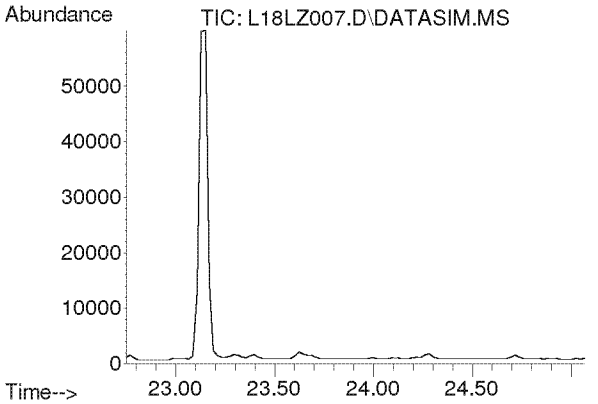
#34
1,2-Dichloropropane
Concen: N.D.
Expected RT: 23.79 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 63

Sig	Exp Ratio
63	100
41	212.8



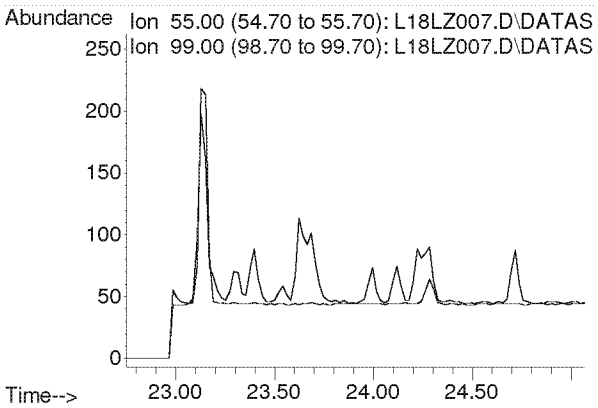


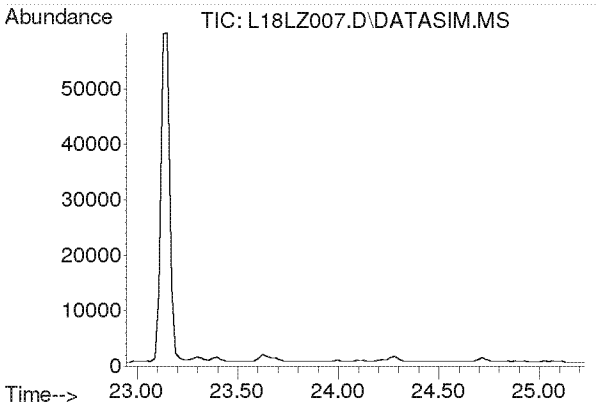
#35
Ethyl Acrylate
Concen: N.D.
Expected RT: 23.87 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 55

Sig	Exp Ratio
55	100
99	6.1



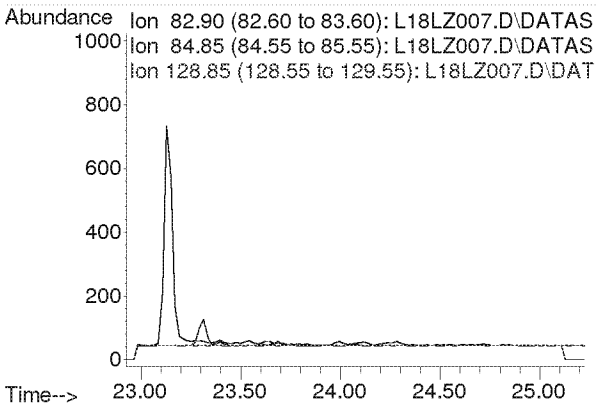


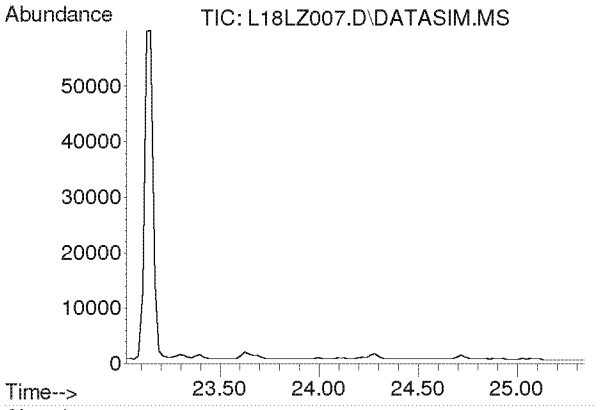
#36
Bromodichloromethane
Concen: N.D.
Expected RT: 24.08 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	64.0
129	12.4



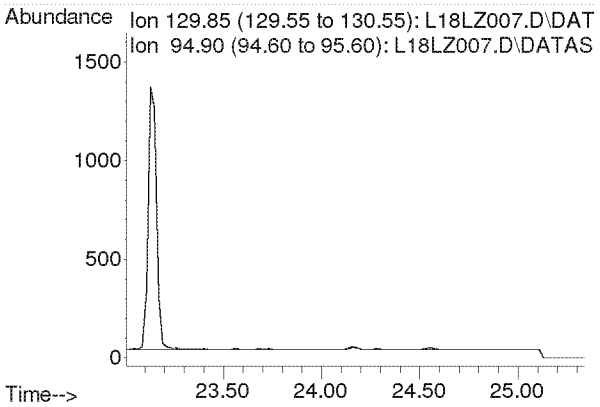


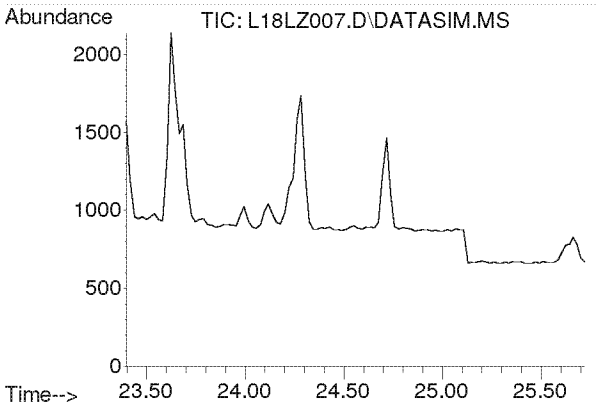
#37
Trichloroethylene
Concen: N.D.
Expected RT: 24.16 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 130

Sig	Exp Ratio
130	100
95	110.3



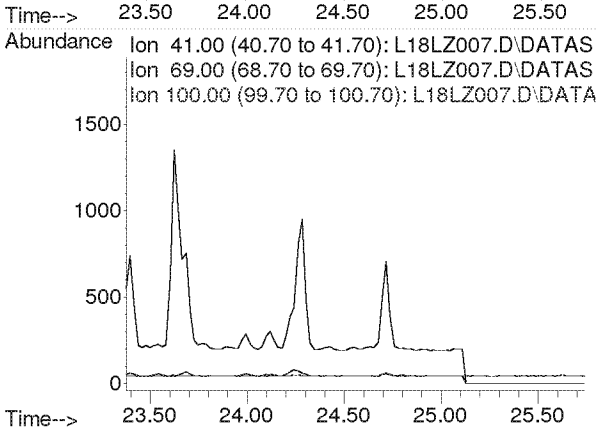


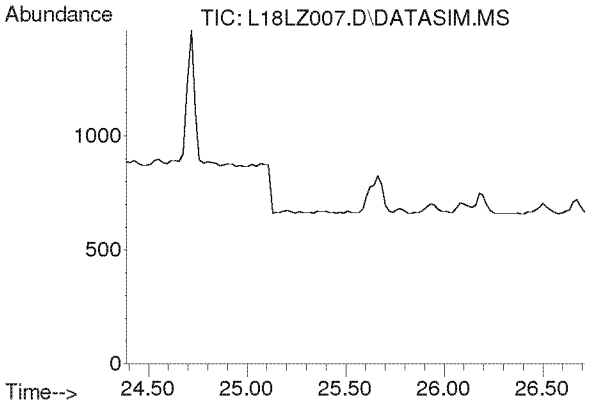
#38
Methyl Methacrylate
Concen: N.D.
Expected RT: 24.53 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 41

Sig	Exp Ratio
41	100
69	19.9
100	5.2



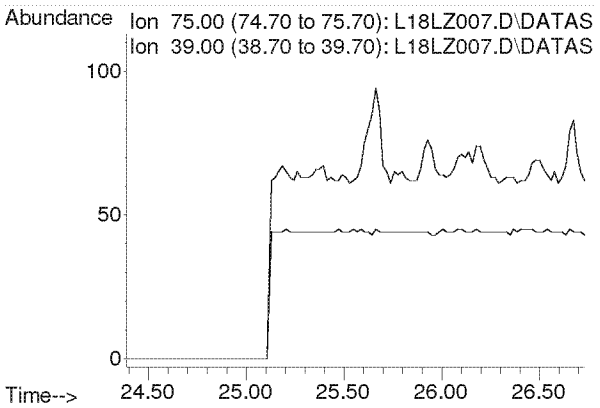


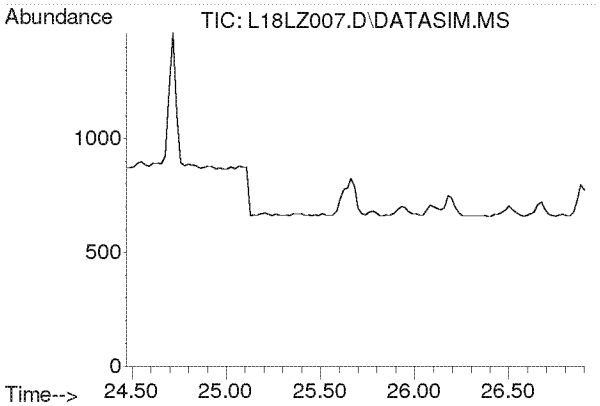
#39
cis-1,3-Dichloropropene
Concen: N.D.
Expected RT: 25.53 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 75

Sig	Exp Ratio
75	100
39	54.4



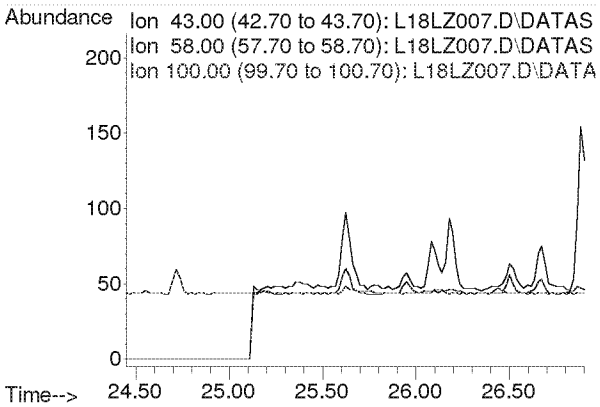


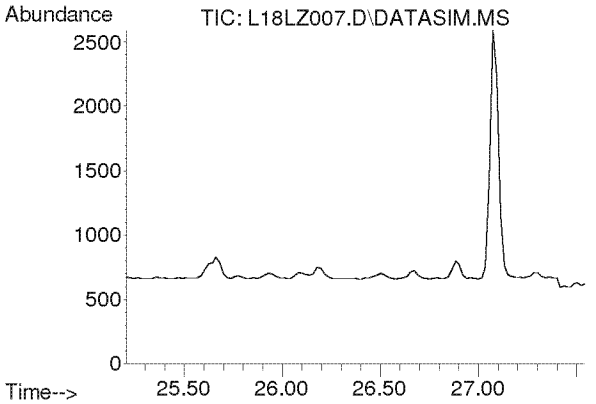
#40
Methyl Isobutyl Ketone
Concen: N.D.
Expected RT: 25.61 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
58	34.2
100	7.9



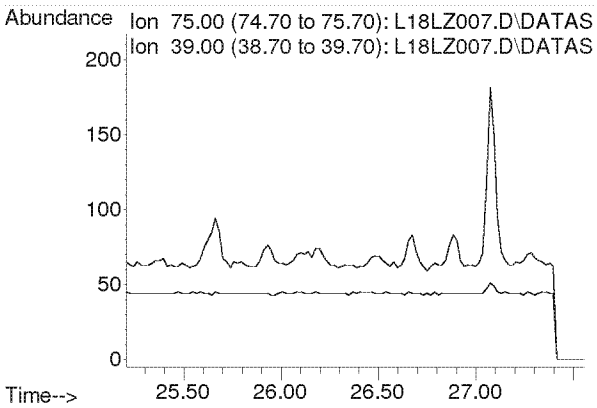


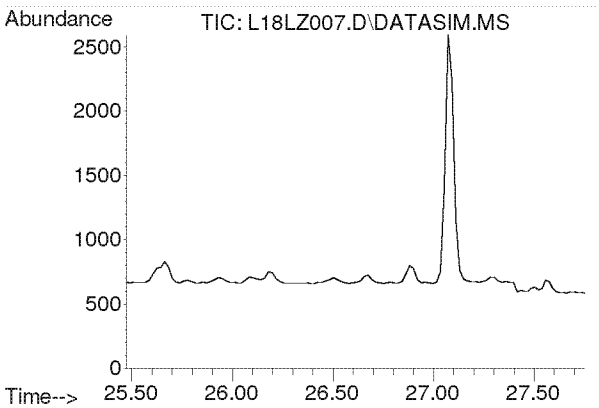
#41
trans-1,3-Dichloropropene
Concen: N.D.
Expected RT: 26.35 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 75

Sig	Exp Ratio
75	100
39	50.9



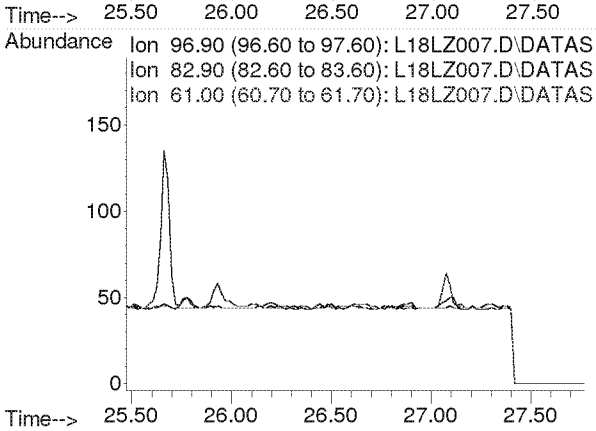


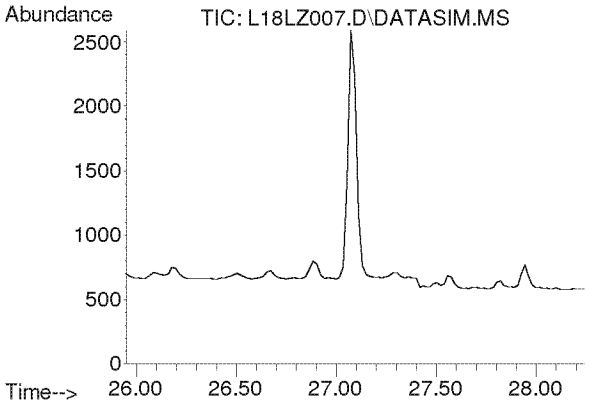
#42
1,1,2-Trichloroethane
Concen: N.D.
Expected RT: 26.62 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 97

Sig	Exp Ratio
97	100
83	96.1
61	63.5



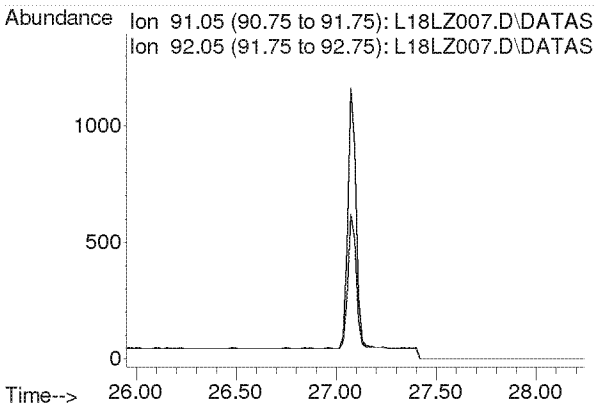


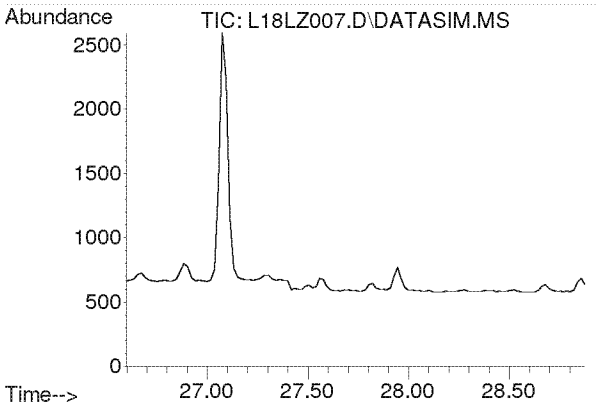
#44
Toluene
Concen: N.D.
Expected RT: 27.09 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 91

Sig	Exp Ratio
91	100
92	52.6



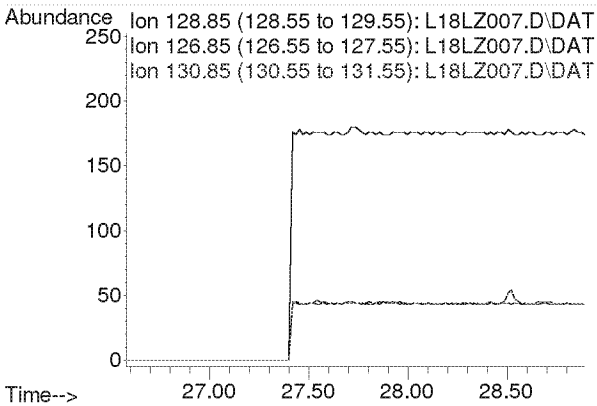


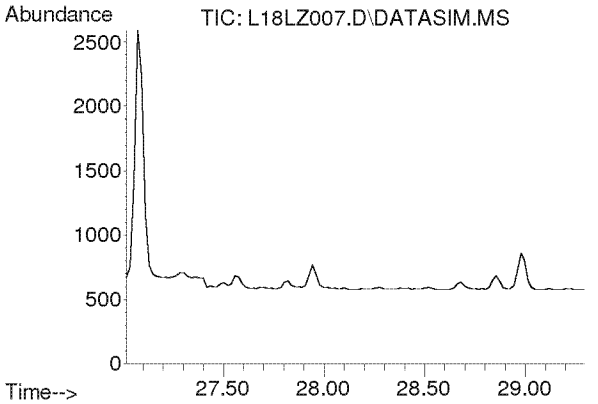
#45
Dibromochloromethane
Concen: N.D.
Expected RT: 27.73 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 129

Sig	Exp Ratio
129	100
127	19.2
131	6.0



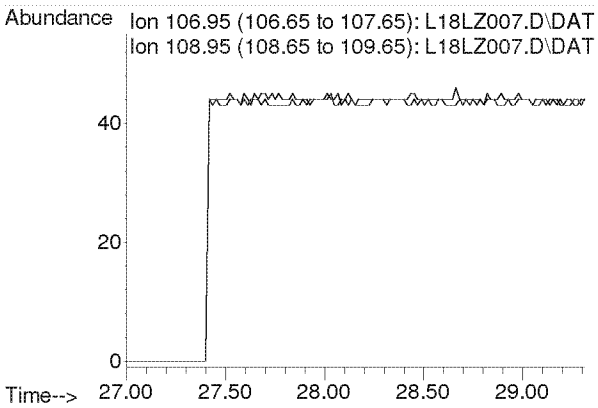


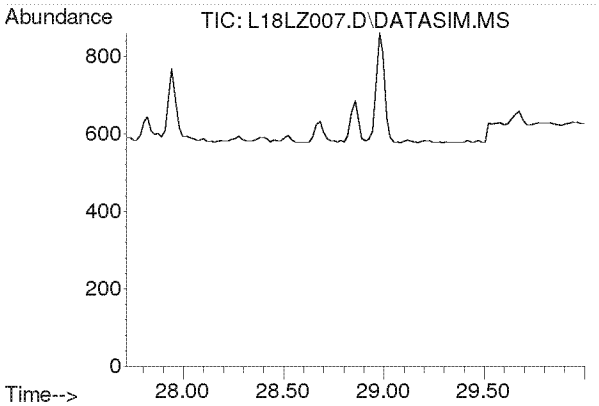
#46
1,2-Dibromoethane
Concen: N.D.
Expected RT: 28.16 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 107

Sig	Exp Ratio
107	100
109	94.5



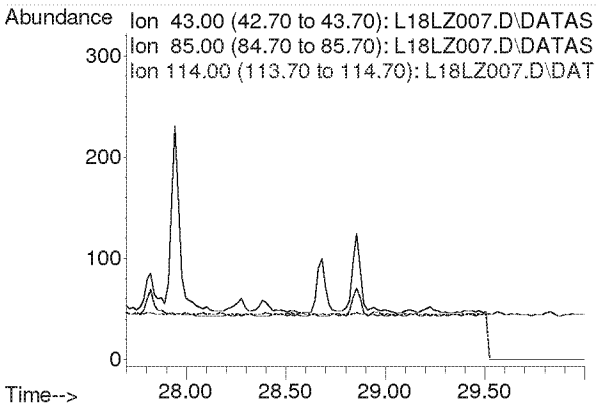


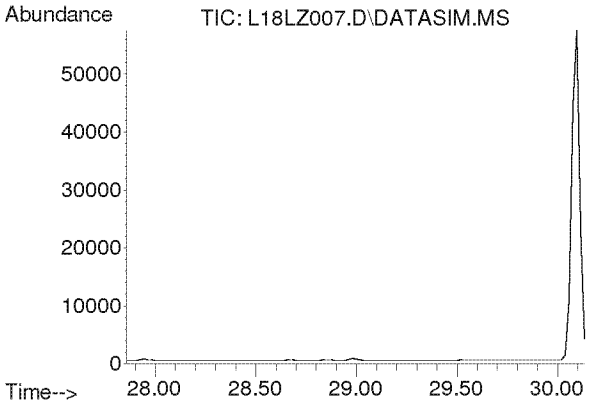
#47
n-Octane
Concen: N.D.
Expected RT: 28.86 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 43

Sig	Exp Ratio
43	100
85	36.0
114	2.2



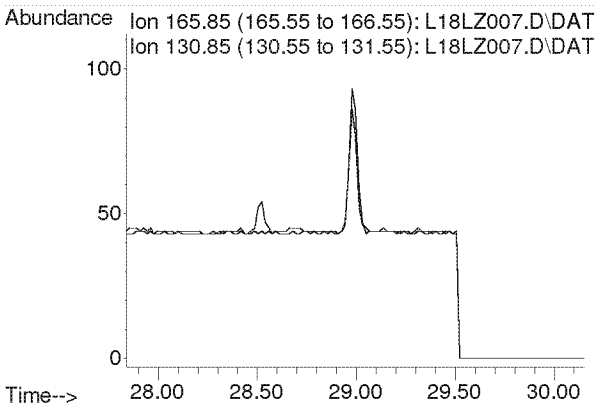


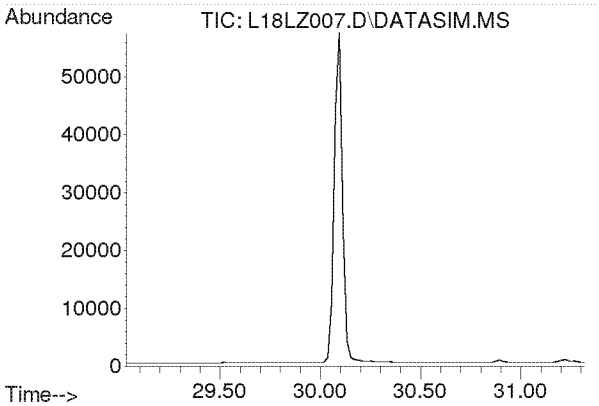
#48
Tetrachloroethylene
Concen: N.D.
Expected RT: 29.00 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 166

Sig	Exp Ratio
166	100
131	78.2



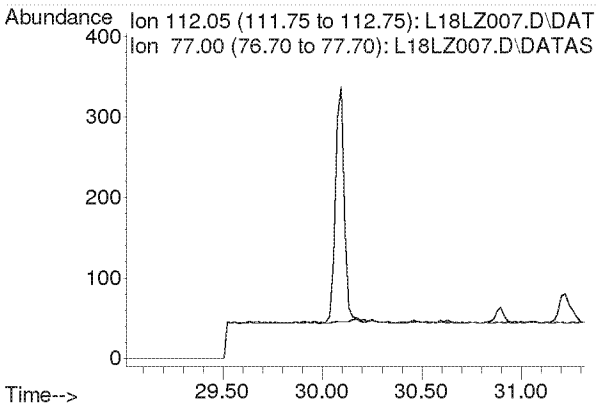


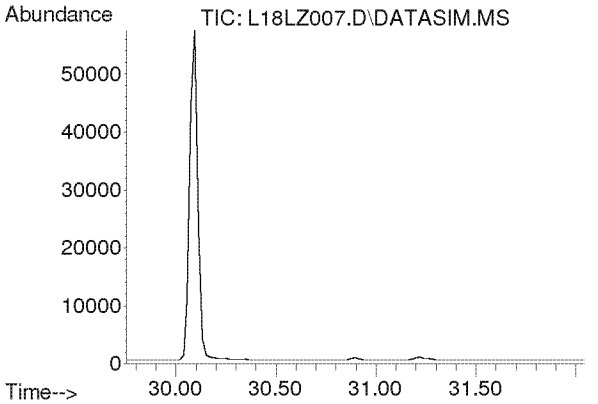
#49
Chlorobenzene
Concen: N.D.
Expected RT: 30.17 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 112

Sig	Exp Ratio
112	100
77	63.0



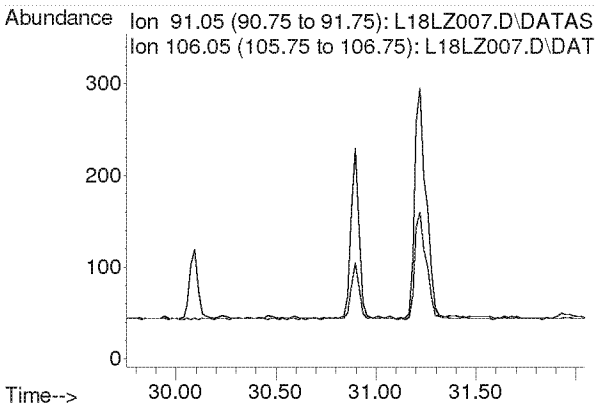


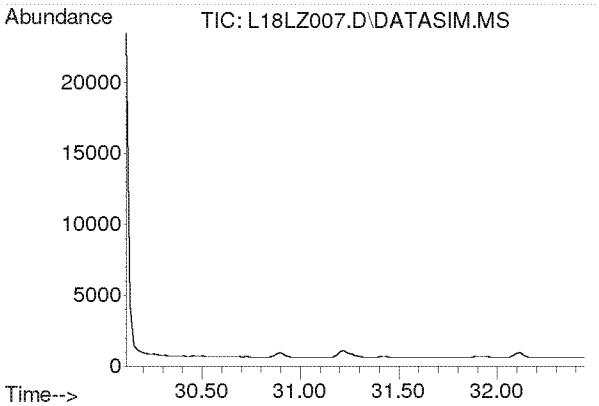
#50
Ethylbenzene
Concen: N.D.
Expected RT: 30.90 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 91

Sig	Exp Ratio
91	100
106	31.8



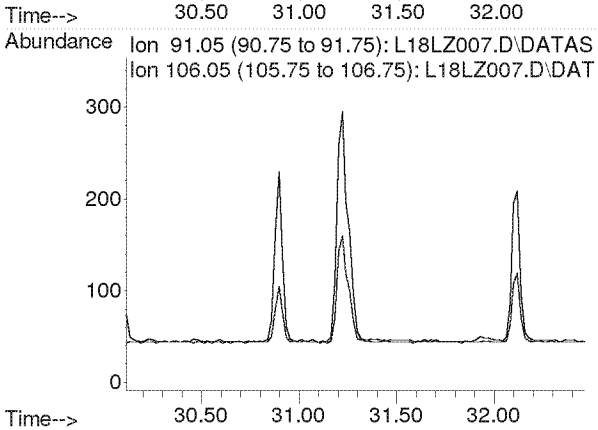


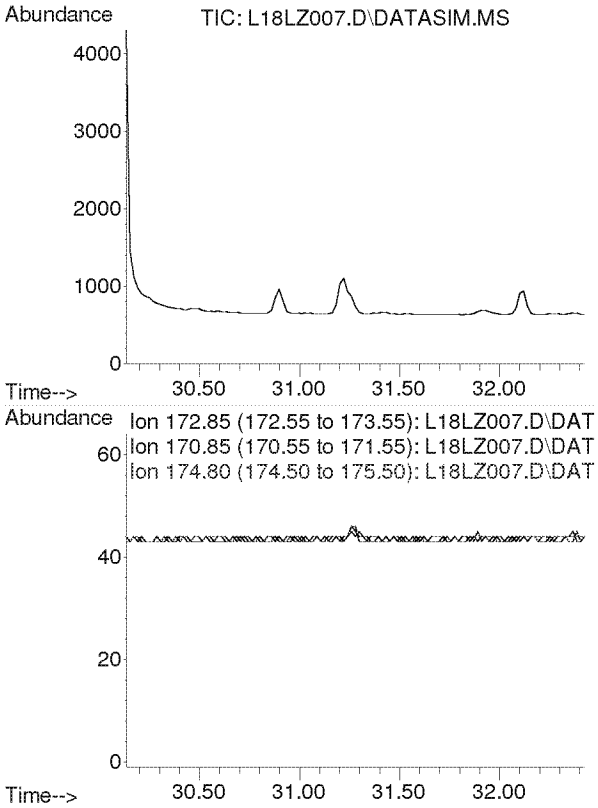
#51
m,p-Xylene
Concen: N.D.
Expected RT: 31.26 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 91

Sig	Exp Ratio
91	100
106	44.4



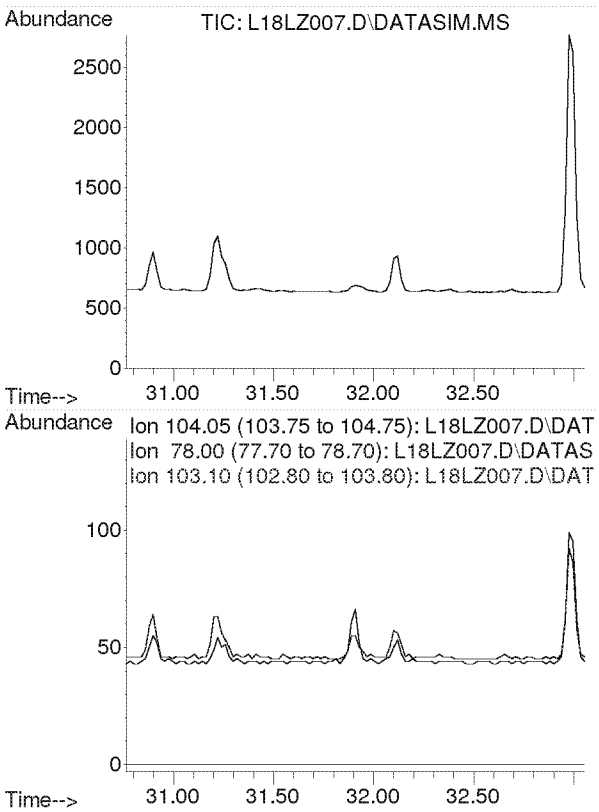


#52
Bromoform
Concen: N.D.
Expected RT: 31.28 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 173

Sig	Exp Ratio
173	100
171	51.3
175	49.0

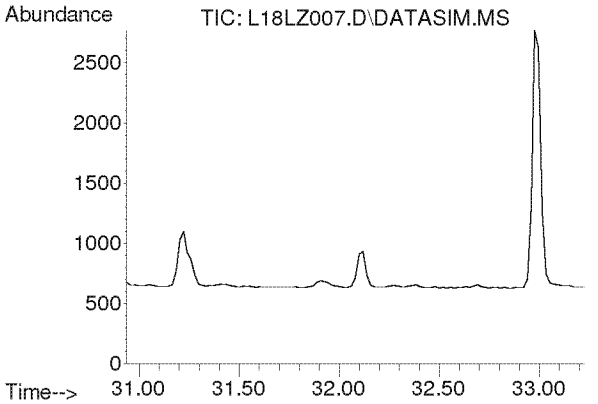


#53
Styrene
Concen: N.D.
Expected RT: 31.91 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 104

Sig	Exp Ratio
104	100
78	45.6
103	0.0

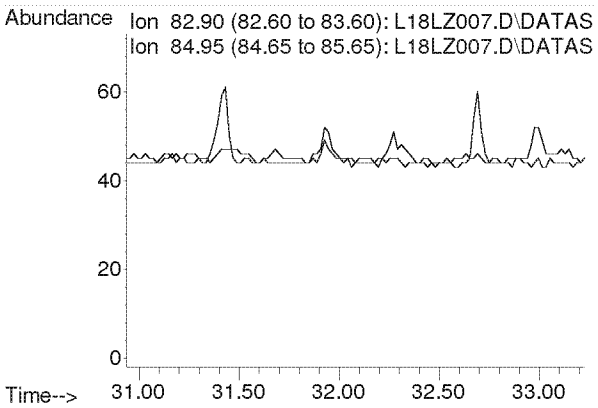


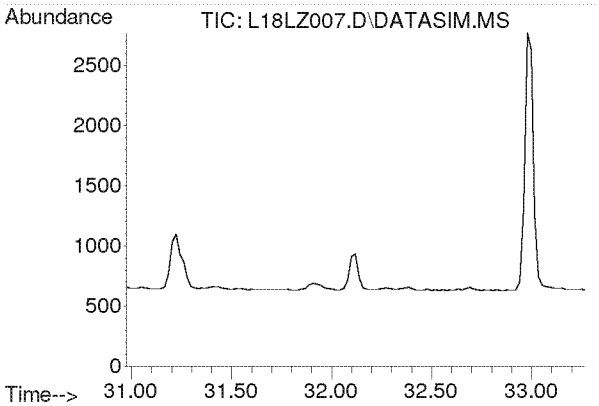
#54
1,1,2,2-Tetrachloroethane
Concen: N.D.
Expected RT: 32.08 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 83

Sig	Exp Ratio
83	100
85	63.9



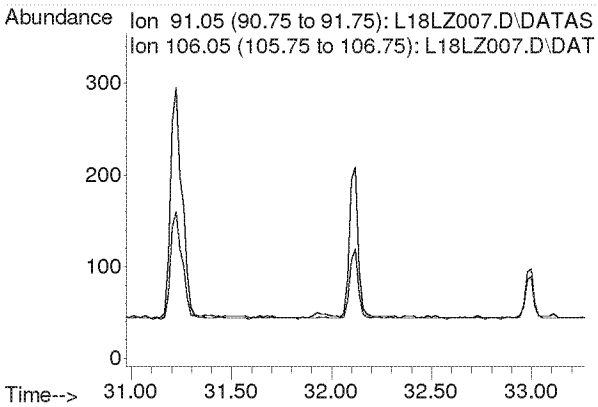


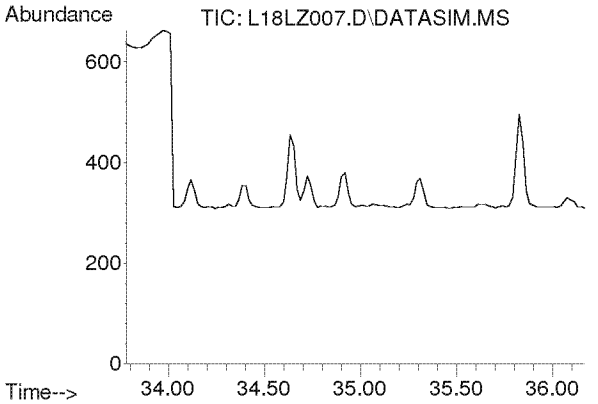
#55
o-Xylene
Concen: N.D.
Expected RT: 32.12 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 91

Sig	Exp Ratio
91	100
106	44.2



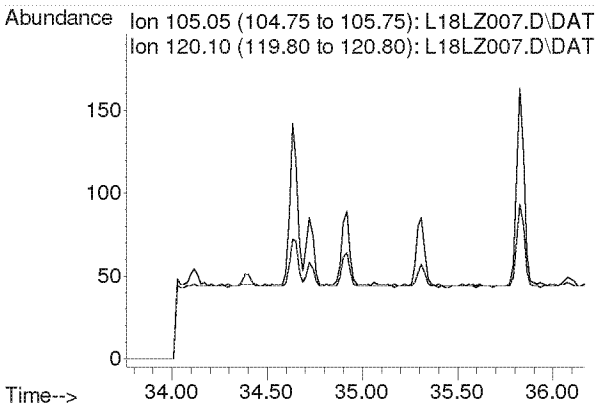


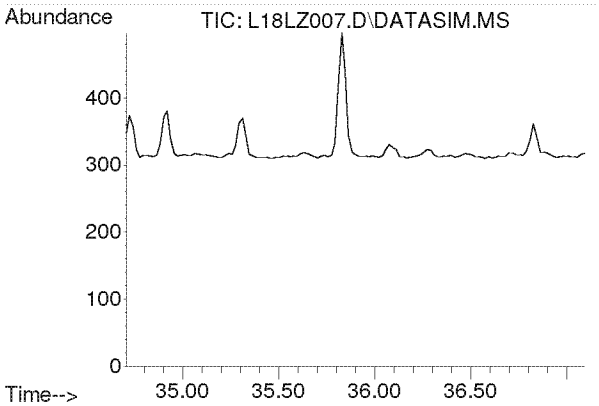
#56
1,3,5-Trimethylbenzene
Concen: N.D.
Expected RT: 34.92 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
120	45.0



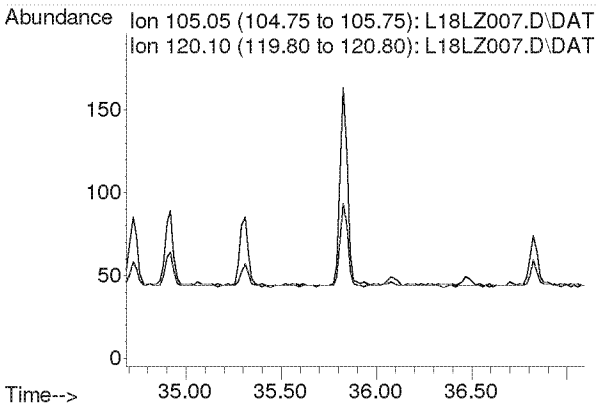


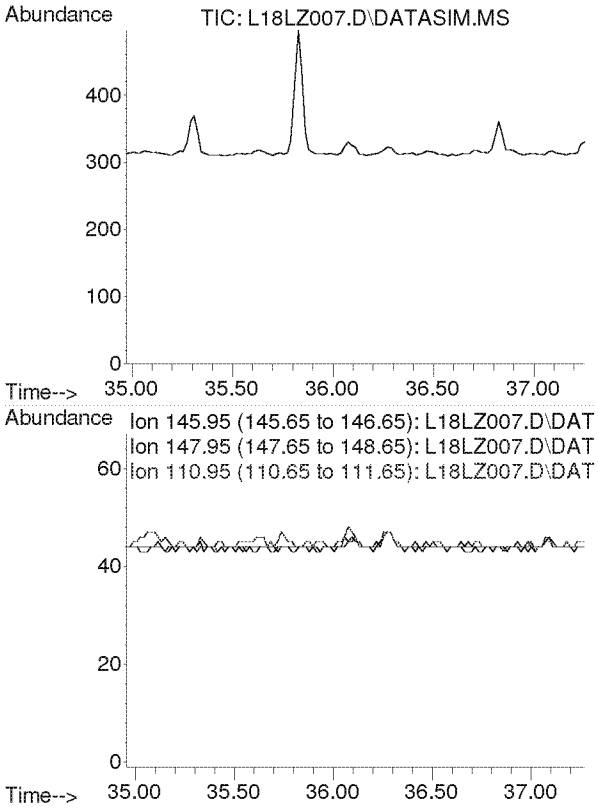
#57
1,2,4-Trimethylbenzene
Concen: N.D.
Expected RT: 35.85 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 105

Sig	Exp Ratio
105	100
120	42.8



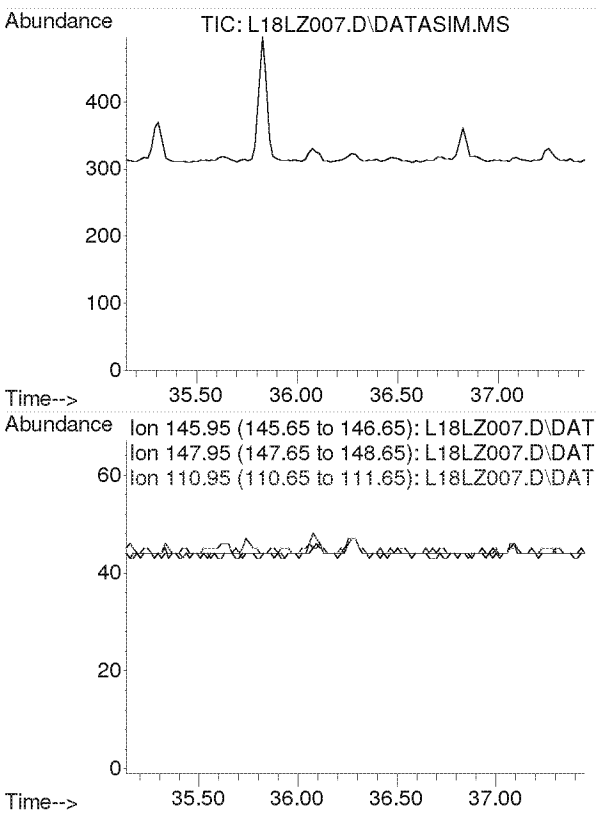


#58
m-Dichlorobenzene
Concen: N.D.
Expected RT: 36.11 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	64.0
111	40.5

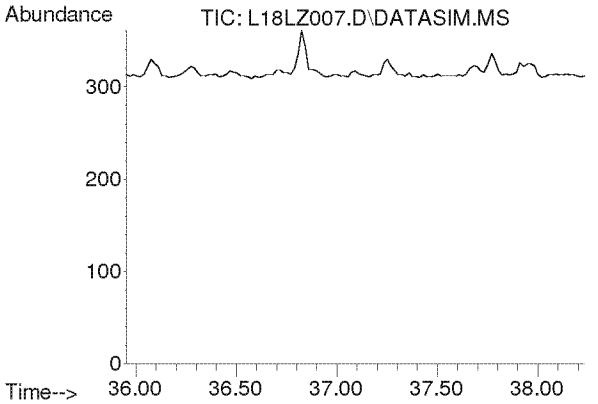


#59
p-Dichlorobenzene
Concen: N.D.
Expected RT: 36.29 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	64.0
111	39.5

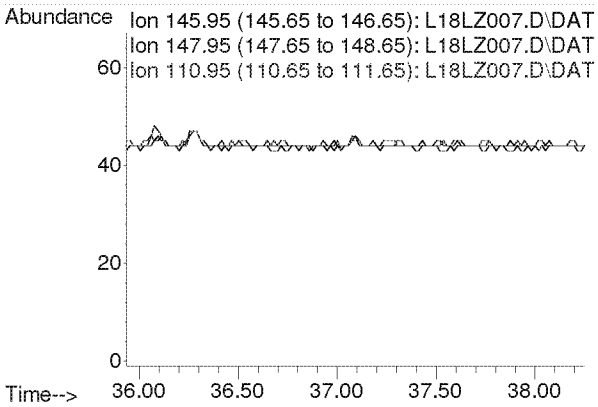


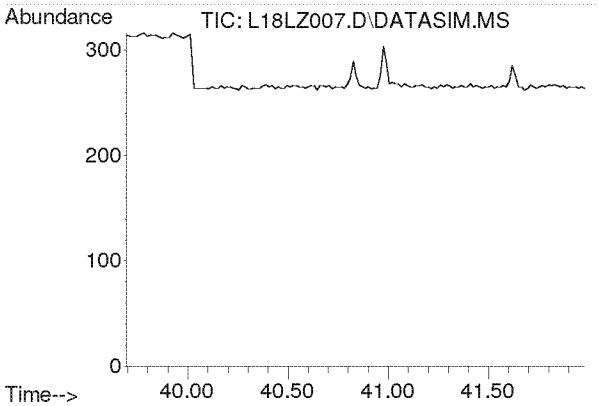
#60
o-Dichlorobenzene
Concen: N.D.
Expected RT: 37.09 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 146

Sig	Exp Ratio
146	100
148	64.1
111	41.4



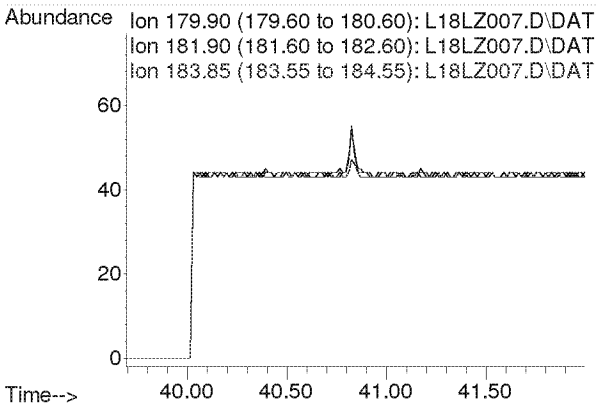


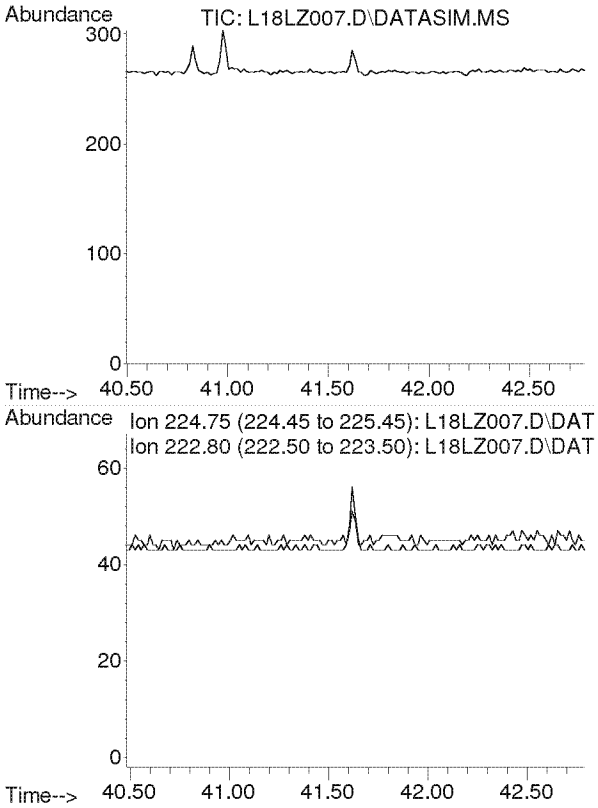
#61
1,2,4-Trichlorobenzene
Concen: N.D.
Expected RT: 40.84 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 180

Sig	Exp Ratio
180	100
182	95.1
184	30.7





#62
Hexachloro-1,3-butadiene
Concen: N.D.
Expected RT: 41.64 min

Lab File: L18LZ007.D
Acq: 26 Dec 2018 5:33 pm

Tgt Ion: 225

Sig	Exp Ratio
225	100
223	62.4