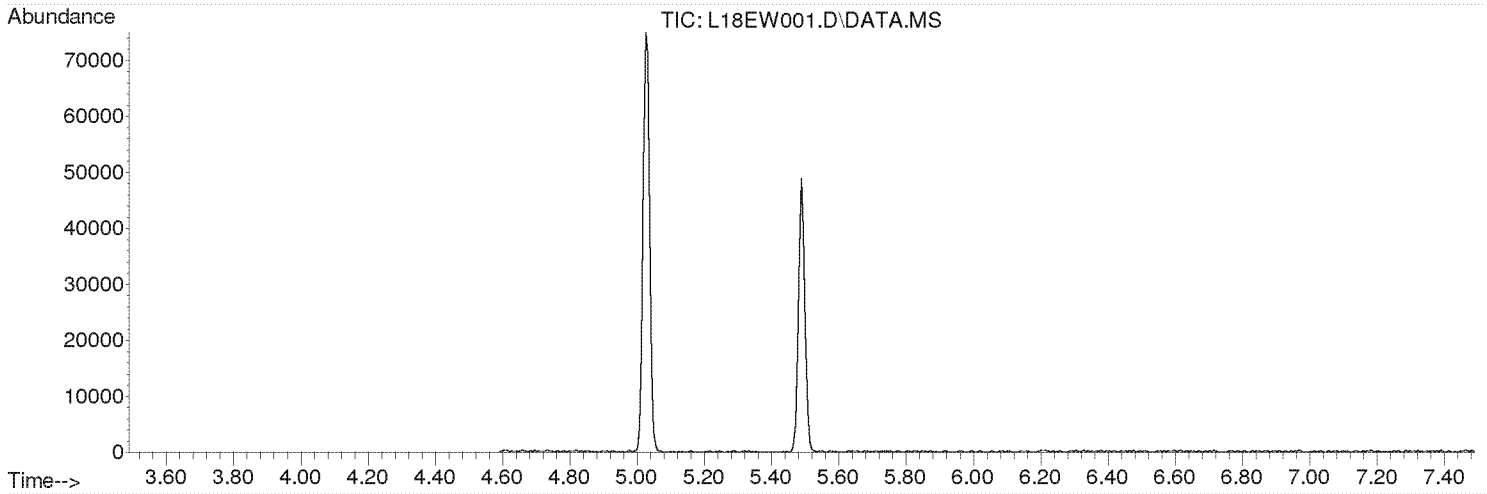
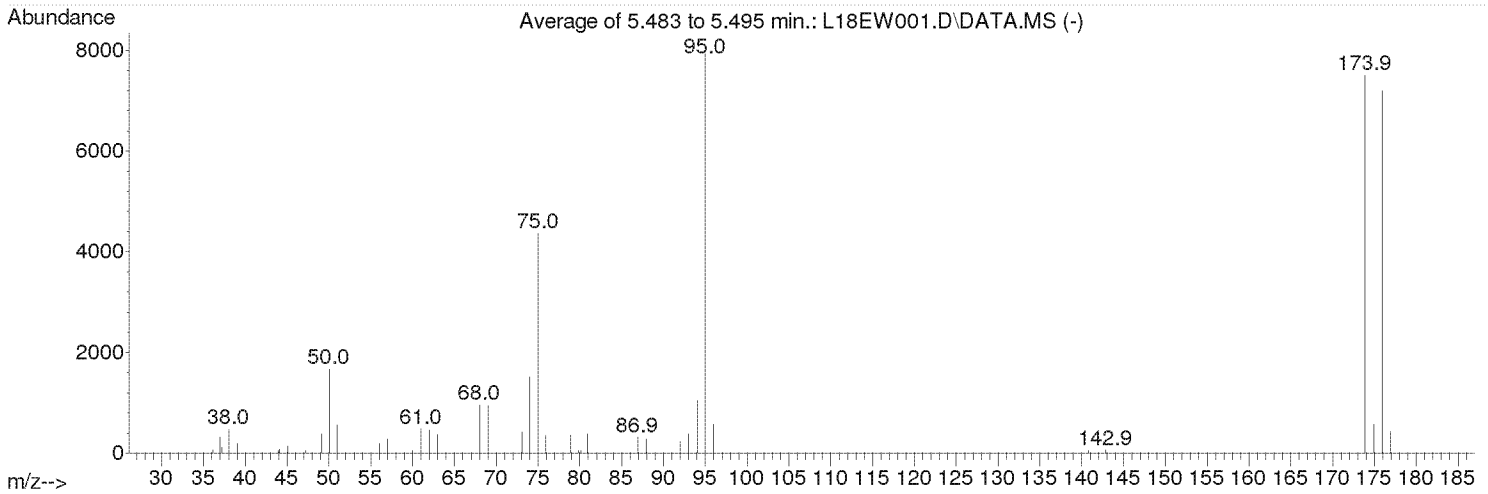
Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW001.D
Acq On : 23 May 2018 1:34 pm
Operator : MAH
Sample : BFB
Misc : 80ML IS 7L07001
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : Y:\MASS SPEC 1 DATA\AIR_METHODS MS1\8050004_ETOX.M
Title : TO-15 by Selective Ion Analysis
Last Update : Mon May 21 13:28:21 2018





Spectrum Information: Average of 5.483 to 5.495 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.9	1655	PASS
75	95	30	66	54.9	4353	PASS
95	95	100	100	100.0	7930	PASS
96	95	5	9	7.1	565	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	94.5	7492	PASS
175	174	4	9	7.5	565	PASS
176	174	93	101	95.8	7181	PASS
177	176	5	9	5.8	417	PASS

Compound Name			IS-Hexane-d14	IS-Hexane-d14
Labels	Date Acquired	Data File Name	(# 1) Target Response	(# 1) Ret Time
	5/24/2018 12:11	L18EW023.D	32117	20.01
Format 1 (Yes/No)				
Format 1 Title				
Format 2 (Yes/No)			YES	YES
Format 2 Title				
Show X Axis Title			YES	YES
Show Y Axis Title				
Lines To Chart				

	Format 1	Format 2				
Start of Data	X-axis	X-axis	**IS-Hexane-d14**	**% Rec**	**RT**	**DEV (min)**
		IS AVG / AVG RT	**37711**		**20.01**	
	5/23/2018 14:24	L18EW002.D	32764	**87**	20.01	**0**
	5/23/2018 15:27	L18EW003.D	35420	**94**	20.01	**0**
	5/23/2018 16:29	L18EW004.D	33272	**88**	20.01	**0**
	5/23/2018 17:31	L18EW005.D	33034	**88**	20.01	**0**
	5/23/2018 18:33	L18EW006.D	30636	**81**	20.01	**0**
	5/23/2018 19:35	L18EW007.D	32850	**87**	20.01	**0**
	5/23/2018 20:38	L18EW008.D	31280	**83**	20.01	**0**
	5/23/2018 21:40	L18EW009.D	29856	**79**	20.01	**0**
	5/23/2018 22:42	L18EW010.D	32214	**85**	20.01	**0**
	5/23/2018 23:44	L18EW011.D	31393	**83**	20.01	**0**
	5/24/2018 12:46	L18EW012.D	31495	**84**	20.01	**0**
	5/24/2018 1:49	L18EW013.D	30795	**82**	20.01	**0**
	5/24/2018 2:51	L18EW014.D	32464	**86**	20.01	**0**
	5/24/2018 3:53	L18EW015.D	32360	**86**	20.01	**0**
	5/24/2018 4:55	L18EW016.D	31209	**83**	20.01	**0**
	5/24/2018 5:58	L18EW017.D	30918	**82**	20.01	**0**
	5/24/2018 7:00	L18EW018.D	32125	**85**	20.01	**0**
	5/24/2018 8:02	L18EW019.D	30778	**82**	20.01	**0**
	5/24/2018 9:04	L18EW020.D	30955	**82**	20.01	**0**
	5/24/2018 10:06	L18EW021.D	31814	**84**	20.01	**0**
	5/24/2018 11:09	L18EW022.D	32021	**85**	20.01	**0**
	5/24/2018 12:11	L18EW023.D	32117	**85**	20.01	**0**

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\L18EW\L18EW001.D
Tune Time : 23 May 2018 1:34 pm

8050004_ETOX	IS Avg Area	37711	90570	55149
	+40%	52796	126799	77209
	-40%	22627	54342	33090

File	Sample	Internal Standard Responses		
L18EW002.D	1805062-CCV1	32764	80634	49777
L18EW003.D	B8E2305-BLK1	35420	85983	54995
L18EW004.D	8052134-11	33272	81308	53499
L18EW005.D	8052134-12	33034	79977	53712
L18EW006.D	B8E2305-DUP1	30636	74961	48456
L18EW007.D	B8E2305-DUP2	32850	80989	52058
L18EW008.D	8052134-13	31280	76140	49088
L18EW009.D	8052134-14	29856	72517	46133
L18EW010.D	8052134-15	32214	77398	49190
L18EW011.D	8052134-16	31393	76945	48033
L18EW012.D	8052134-17	31495	74962	48838
L18EW013.D	8052134-18	30795	75369	47702
L18EW014.D	8052134-19	32464	79272	50699
L18EW015.D	8052134-20	32360	78269	48888
L18EW016.D	8052134-21	31209	73721	46538
L18EW017.D	B8E2305-DUP3	30918	76019	47514
L18EW018.D	B8E2305-DUP4	32125	78678	48656
L18EW019.D	8052134-22	30778	74668	46849
L18EW020.D	8052134-23	30955	75608	46666
L18EW021.D	B8E2305-DUP5	31814	78811	48911

L18EW022.D				
	B8E2305-DUP6	32021	79488	50144
L18EW023.D				
	8052134-24	32117	77111	50299

(fails) - fails 24hr time check * - fails criteria

Created: Thu May 24 13:01:33 2018 MS1

ANALYSIS SEQUENCE

Instrument: ERGMS#1

1805062

Printed: 9/13/2018 3:19:46PM

Calibration ID: 8050004

Lab Number	Sample Name	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1805062-CCV1	Calibration Check	QC		1		8E10007	7L07002	
B8E2305-BLK1	Blank	QC		2			7L07002	
8052134-11	EtO D1 41.7487,-87.9426	TO-15 2018 Ethylene Oxide	A	3			7L07002	
8052134-12	EtO D2 41.7487,-87.9426	TO-15 2018 Ethylene Oxide	A	4			7L07002	
B8E2305-DUP1	Duplicate	QC		5			7L07002	
B8E2305-DUP2	Duplicate	QC		6			7L07002	
8052134-13	EtO 41.7519,-87.9327	TO-15 2018 Ethylene Oxide	A	7			7L07002	
8052134-14	EtO 41.7487,-87.9426	TO-15 2018 Ethylene Oxide	A	8			7L07002	
8052134-15	EtO Grab 41.7450,-87.9403	TO-15 2018 Ethylene Oxide	A	9			7L07002	
8052134-16	EtO Grab 41.7488,-87.9429	TO-15 2018 Ethylene Oxide	A	10			7L07002	
8052134-17	EtO Grab 41.7500,-87.9360	TO-15 2018 Ethylene Oxide	A	11			7L07002	
8052134-18	EtO 41.7483,-87.9459	TO-15 2018 Ethylene Oxide	A	12			7L07002	
8052134-19	EtO Grab 41.7469,-87.9455	TO-15 2018 Ethylene Oxide	A	13			7L07002	
8052134-20	EtO Grab D1 41.7508,-87.9456	TO-15 2018 Ethylene Oxide	A	14			7L07002	
8052134-21	EtO Grab D2 41.7508,-87.9456	TO-15 2018 Ethylene Oxide	A	15			7L07002	
B8E2305-DUP3	Duplicate	QC		16			7L07002	
B8E2305-DUP4	Duplicate	QC		17			7L07002	
8052134-22	EtO D1 41.7474,-87.9385	TO-15 2018 Ethylene Oxide	A	18			7L07002	
8052134-23	EtO D2 41.7474,-87.9385	TO-15 2018 Ethylene Oxide	A	19			7L07002	
B8E2305-DUP5	Duplicate	QC		20			7L07002	
B8E2305-DUP6	Duplicate	QC		21			7L07002	
8052134-24	EtO 41.7505,-87.9371	TO-15 2018 Ethylene Oxide	A	22			7L07002	

Samples Loaded By Date

Data Processed By Date

Analytical Standard Record
Eastern Research Group
8I10007

Description:	2.50 ppbv ICV/CCV	Expires:	10/10/18
Standard Type:	Calibration Star	Prepared:	09/10/18
Solvent:	Scientific Air	Prepared By:	Mitch Howell
Final Volume (mls):	6000	Department:	Air Toxics
Vials:	1	Last Edit:	09/10/18 12:24 by MH

canister# 3238

Analyte	CAS Number	Concentration	Units
Acrolein	107-02-8	0.00238	ppmv
cis-1,2-Dichloroethylene	156-59-2	0.00253	ppmv
Chloroprene	126-99-8	0.00246	ppmv
Chloromethane	74-87-3	0.0025	ppmv
Chloroform	67-66-3	0.00251	ppmv
Chloroethane	75-00-3	0.00251	ppmv
Chlorobenzene	108-90-7	0.00248	ppmv
Carbon Tetrachloride	56-23-5	0.00248	ppmv
Carbon Disulfide	75-15-0	0.00249	ppmv
Bromomethane	74-83-9	0.00248	ppmv
Bromoform	75-25-2	0.00256	ppmv
Bromodichloromethane	75-27-4	0.00258	ppmv
Bromochloromethane	74-97-5	0.00247	ppmv
1,1,1-Trichloroethane	71-55-6	0.0025	ppmv
Acrylonitrile	107-13-1	0.00245	ppmv
Dichlorodifluoromethane	75-71-8	0.00242	ppmv
Acetylene	74-86-2	0.00246	ppmv
Acetonitrile	75-05-8	0.00252	ppmv
1,3-Butadiene	106-99-0	0.00248	ppmv
1,3,5-Trimethylbenzene	108-67-8	0.0025	ppmv
1,2-Dichloropropane	78-87-5	0.00253	ppmv
1,2-Dichloroethane	107-06-2	0.0025	ppmv
1,2-Dibromoethane	106-93-4	0.0025	ppmv
1,2,4-Trimethylbenzene	95-63-6	0.00237	ppmv
1,2,4-Trichlorobenzene	120-82-1	0.00251	ppmv
1,1-Dichloroethene	75-35-4	0.00246	ppmv
1,1-Dichloroethane	75-34-3	0.00246	ppmv
1,1,2-Trichloroethane	79-00-5	0.0025	ppmv
1,1,2,2-Tetrachloroethane	79-34-5	0.00254	ppmv
Benzene	71-43-2	0.00252	ppmv

Reviewed By Date

Analytical Standard Record

Eastern Research Group

8I10007

n-Hexane	110-54-3	0.00248	ppmv
Trichlorotrifluoroethane	76-13-1	0.00246	ppmv
Trichlorofluoromethane	75-69-4	0.00248	ppmv
Trichloroethylene	79-01-6	0.00252	ppmv
trans-1,3-Dichloropropene	10061-02-6	0.00248	ppmv
trans-1,2-Dichloroethylene	156-60-5	0.0025	ppmv
Toluene	108-88-3	0.00244	ppmv
Tetrachloroethylene	127-18-4	0.00248	ppmv
tert-Amyl Methyl Ether	994-05-8	0.0026	ppmv
Styrene	100-42-5	0.0025	ppmv
Propylene	115-07-1	0.00246	ppmv
p-Dichlorobenzene	106-46-7	0.00261	ppmv
o-Xylene	95-47-6	0.00246	ppmv
o-Dichlorobenzene	95-50-1	0.00253	ppmv
cis-1,3-Dichloropropene	10061-01-5	0.00256	ppmv
Hexachloro-1,3-butadiene	87-68-3	0.00255	ppmv
Vinyl chloride	75-01-4	0.00252	ppmv
Dichloromethane	75-09-2	0.0025	ppmv
Dichlorotetrafluoroethane	76-14-2	0.00246	ppmv
Ethyl Acrylate	140-88-5	0.00254	ppmv
Ethyl tert-Butyl Ether	637-92-3	0.0026	ppmv
Naphthalene	91-20-3	0.0025	ppmv
Ethylene oxide	75-21-8	0.00255	ppmv
n-Octane	111-65-9	0.00248	ppmv
m,p-Xylene	108-38-3, 106-42-3	0.005	ppmv
m-Dichlorobenzene	541-73-1	0.0024	ppmv
Methyl Isobutyl Ketone	108-10-1	0.00254	ppmv
Methyl Methacrylate	80-62-6	0.00254	ppmv
Methyl tert-Butyl Ether	1634-04-4	0.0025	ppmv
Dibromochloromethane	124-48-1	0.00257	ppmv
Ethylbenzene	100-41-4	0.00252	ppmv

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
7J04001	TO-15 Secondary Stock Standard	10/04/17	Mitch Howell	09/25/18	10/04/17 09:52 by MH	30
8B27011	Ethylene Oxide Stock Standard	11/29/17	** Vendor **	11/29/18	02/27/18 11:23 by MH	15

Reviewed By Date

Evaluate Continuing Calibration Report

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW002.D
Acq On : 23 May 2018 2:24 pm
Operator : MAH
Sample : 1805062-CCV1
Misc : 80ML IS 7L07001,8E10007
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 10:00:13 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 ISS	IS-Hexane-d14	1.000	1.000	0.0	91	0.00
2	Ethylene Oxide	0.228	0.229	-0.4	82	0.00
3 ISS	IS-1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
4 ISS	IS-Chlorobenzene-d5	1.000	1.000	0.0	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW002.D
Acq On : 23 May 2018 2:24 pm
Operator : MAH
Sample : 1805062-CCV1
Misc : 80ML IS 7L07001,8E10007
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 10:00:13 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32764	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	80634	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	49777	4.7000 ppbv	0.00

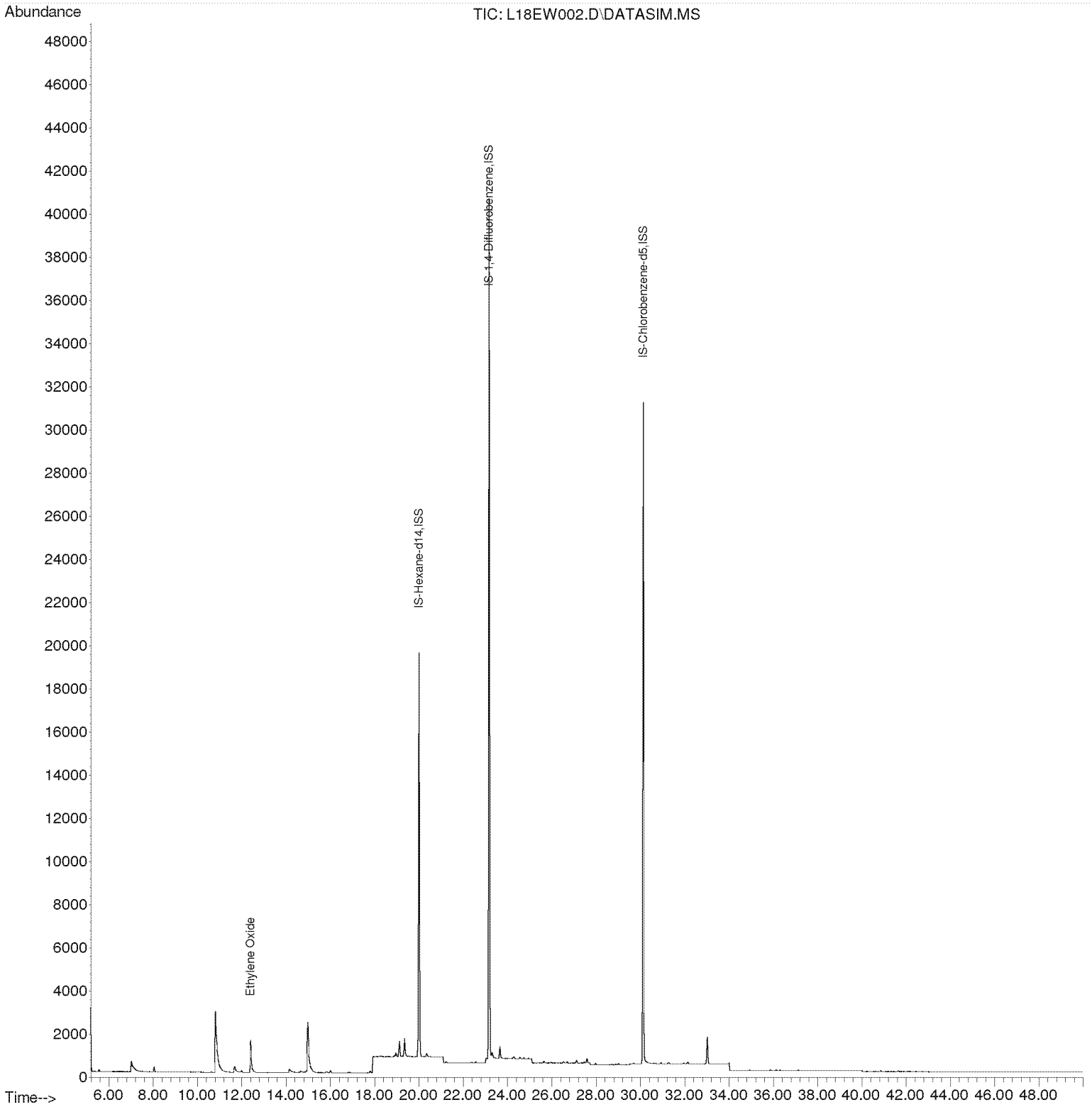
System Monitoring Compounds

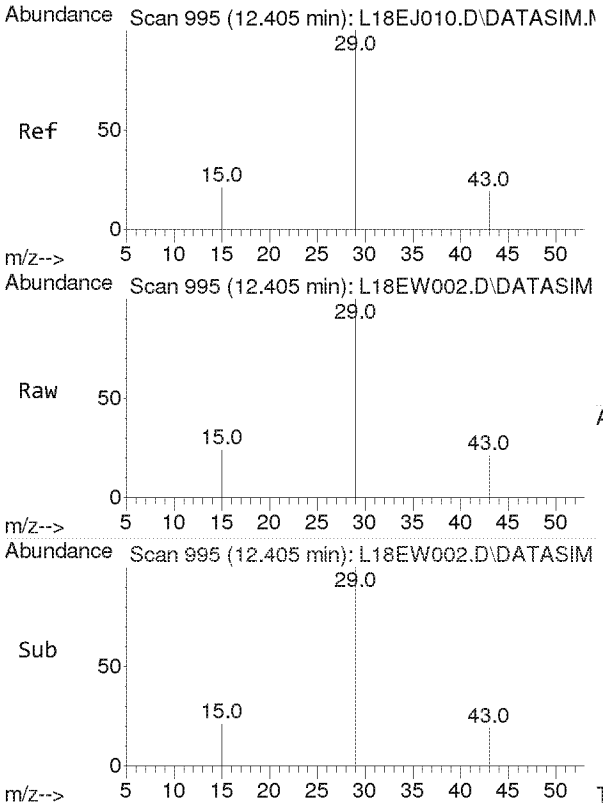
Target Compounds					Qvalue
2) Ethylene Oxide	12.405	29	3913m	2.5107 ppbv	

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

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW002.D
Acq On : 23 May 2018 2:24 pm
Operator : MAH
Sample : 1805062-CCV1
Misc : 80ML IS 7L07001,8E10007
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 10:00:13 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

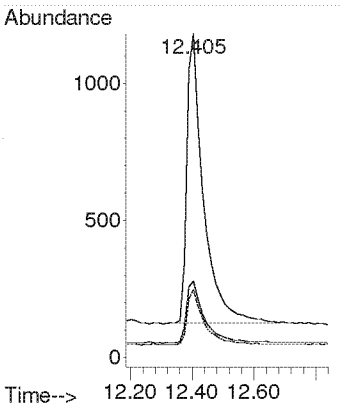




#2
Ethylene Oxide
Concen: 2.511 ppbv m
RT: 12.405 min Scan# 995
Delta R.T. -0.072 min
Lab File: L18EW002.D
Acq: 23 May 2018 2:24 pm

Tgt Ion: 29 Resp: 3913

Ion	Ratio	Lower	Upper
29	100		
15	23.6	20.4	30.6
43	19.4	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW003.D
Acq On : 23 May 2018 3:27 pm
Operator : MAH
Sample : B8E2305-BLK1
Misc : 80ML IS 7L07001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 10:00:49 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	35420	4.8000	ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	85983	4.9300	ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	54995	4.7000	ppbv	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Ethylene Oxide	0.000	29	0	N.D.	d	

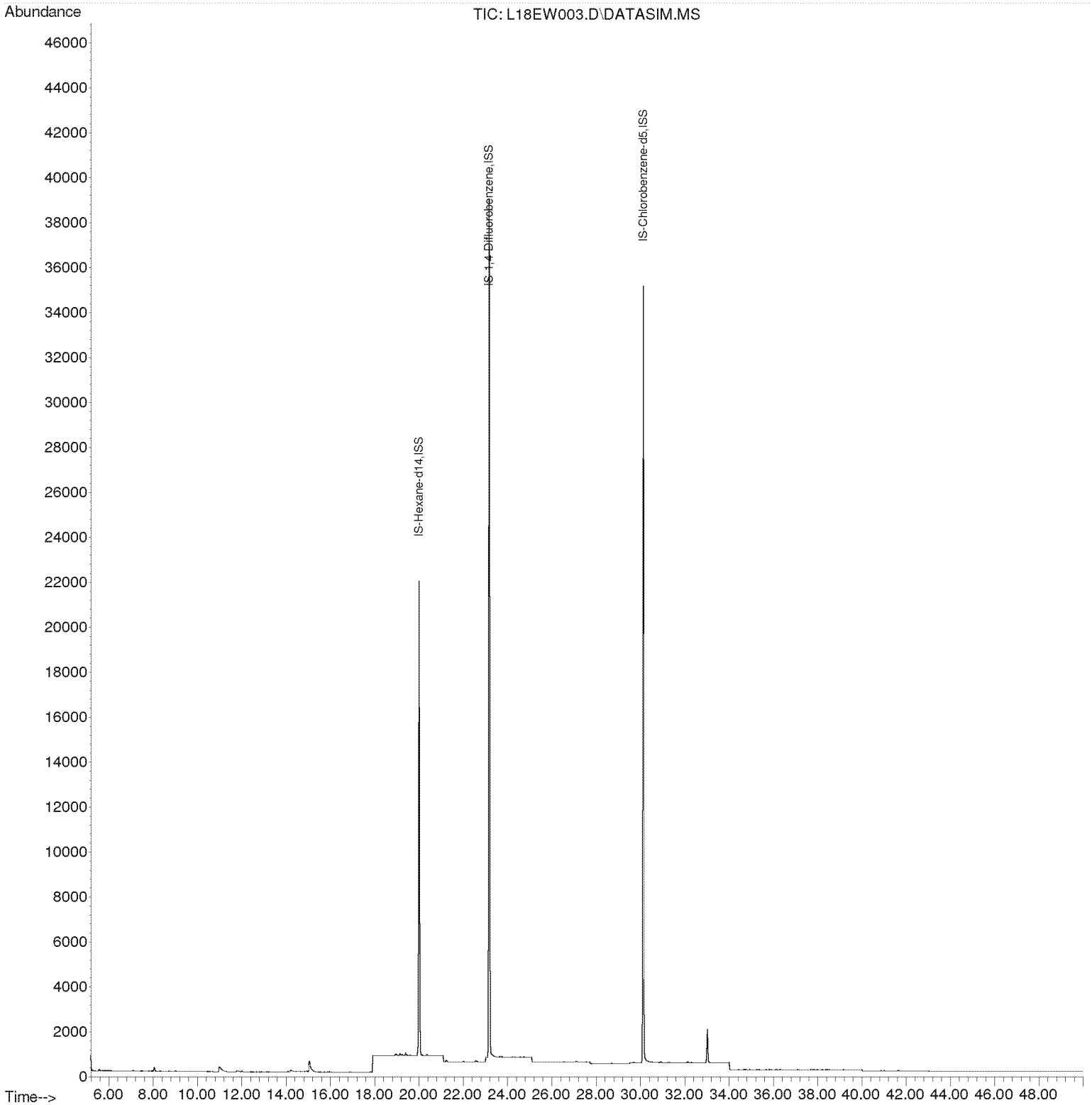
(#) = qualifier out of range (m) = manual integration (+) = signals summed

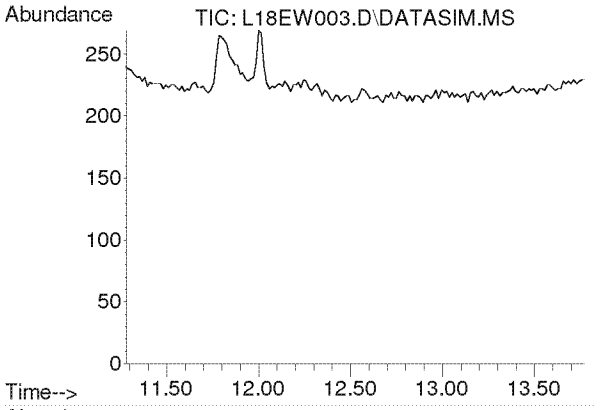
ED_002475_00000167-00012

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW003.D
Acq On : 23 May 2018 3:27 pm
Operator : MAH
Sample : B8E2305-BLK1
Misc : 80ML IS 7L07001
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 10:00:49 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration



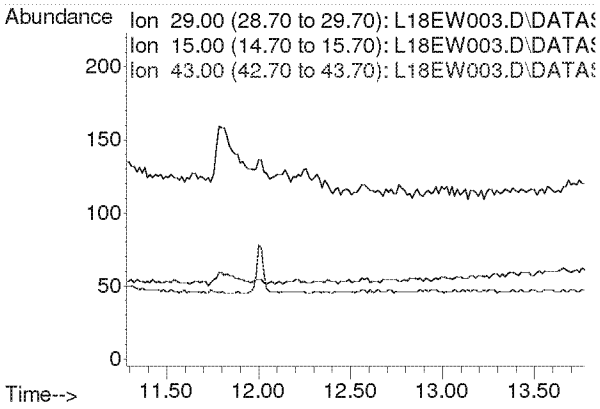


#2
Ethylene Oxide
Concen: N.D.
Expected RT: 12.48 min

Lab File: L18EW003.D
Acq: 23 May 2018 3:27 pm

Tgt Ion: 29

Sig	Exp Ratio
29	100
15	25.5
43	20.3



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW004.D
Acq On : 23 May 2018 4:29 pm
Operator : MAH
Sample : 8052134-11
Misc : WBIL C1 5/18/18
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 10:00:52 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	33272	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.184	114	81308	4.9300 ppbv	0.02
4) IS-Chlorobenzene-d5	30.133	117	53499	4.7000 ppbv	0.00

System Monitoring Compounds

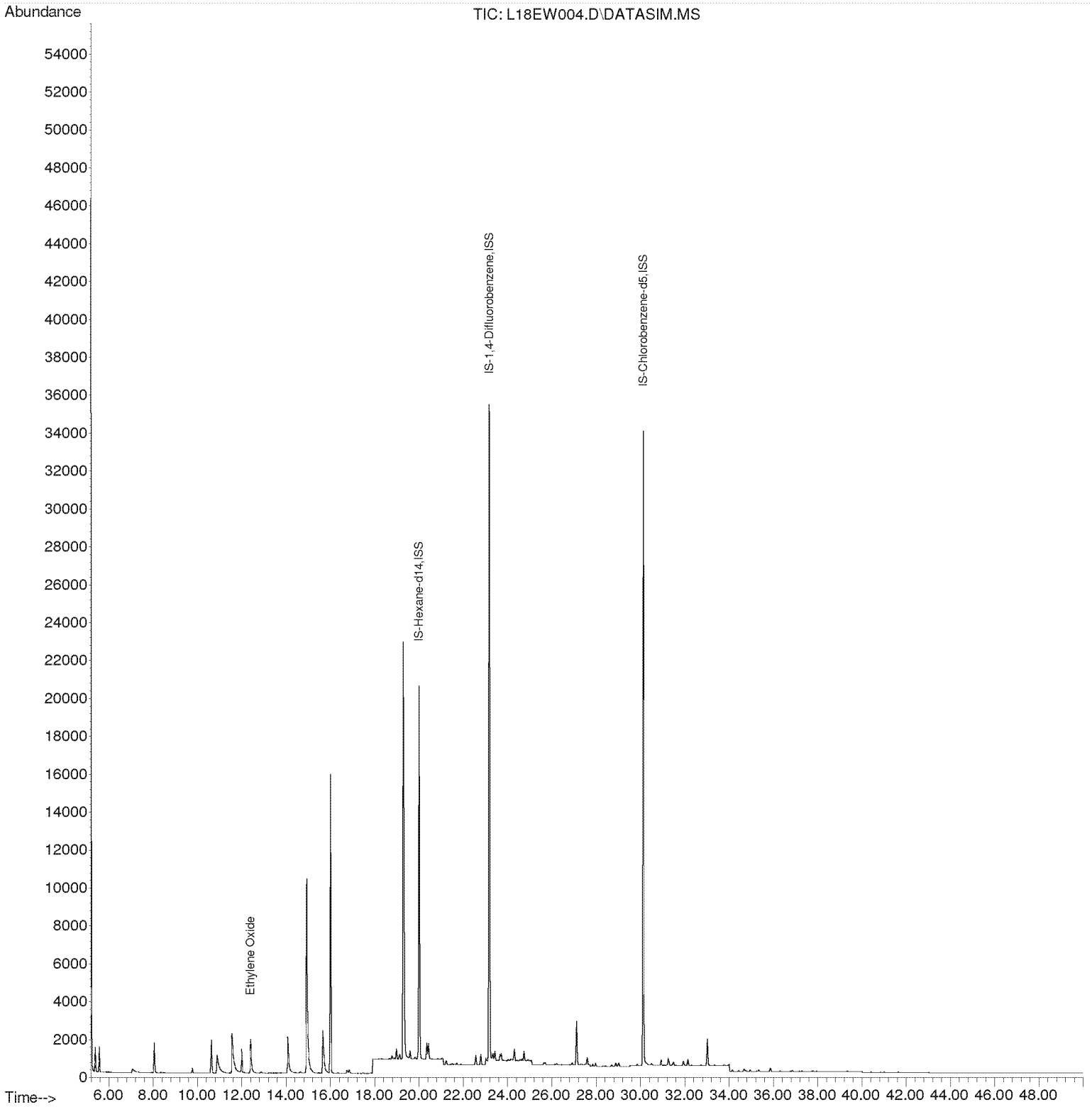
Target Compounds					Qvalue
2) Ethylene Oxide	12.405	29	4317	2.7276 ppbv	97

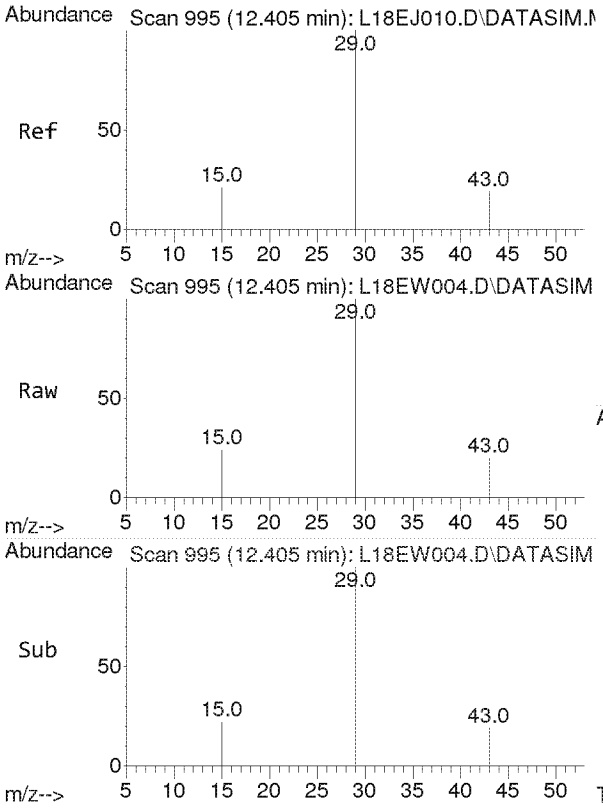
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW004.D
Acq On : 23 May 2018 4:29 pm
Operator : MAH
Sample : 8052134-11
Misc : WBIL C1 5/18/18
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 10:00:52 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

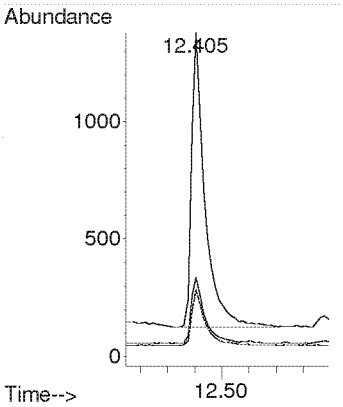




#2
Ethylene Oxide
Concen: 2.728 ppbv
RT: 12.405 min Scan# 995
Delta R.T. -0.072 min
Lab File: L18EW004.D
Acq: 23 May 2018 4:29 pm

Tgt Ion: 29 Resp: 4317

Ion	Ratio	Lower	Upper
29	100		
15	23.7	20.4	30.6
43	19.4	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW005.D
Acq On : 23 May 2018 5:31 pm
Operator : MAH
Sample : 8052134-12
Misc : WBIL C2 5/18/18
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 10:00:55 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	33034	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	79977	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	53712	4.7000 ppbv	0.00

System Monitoring Compounds

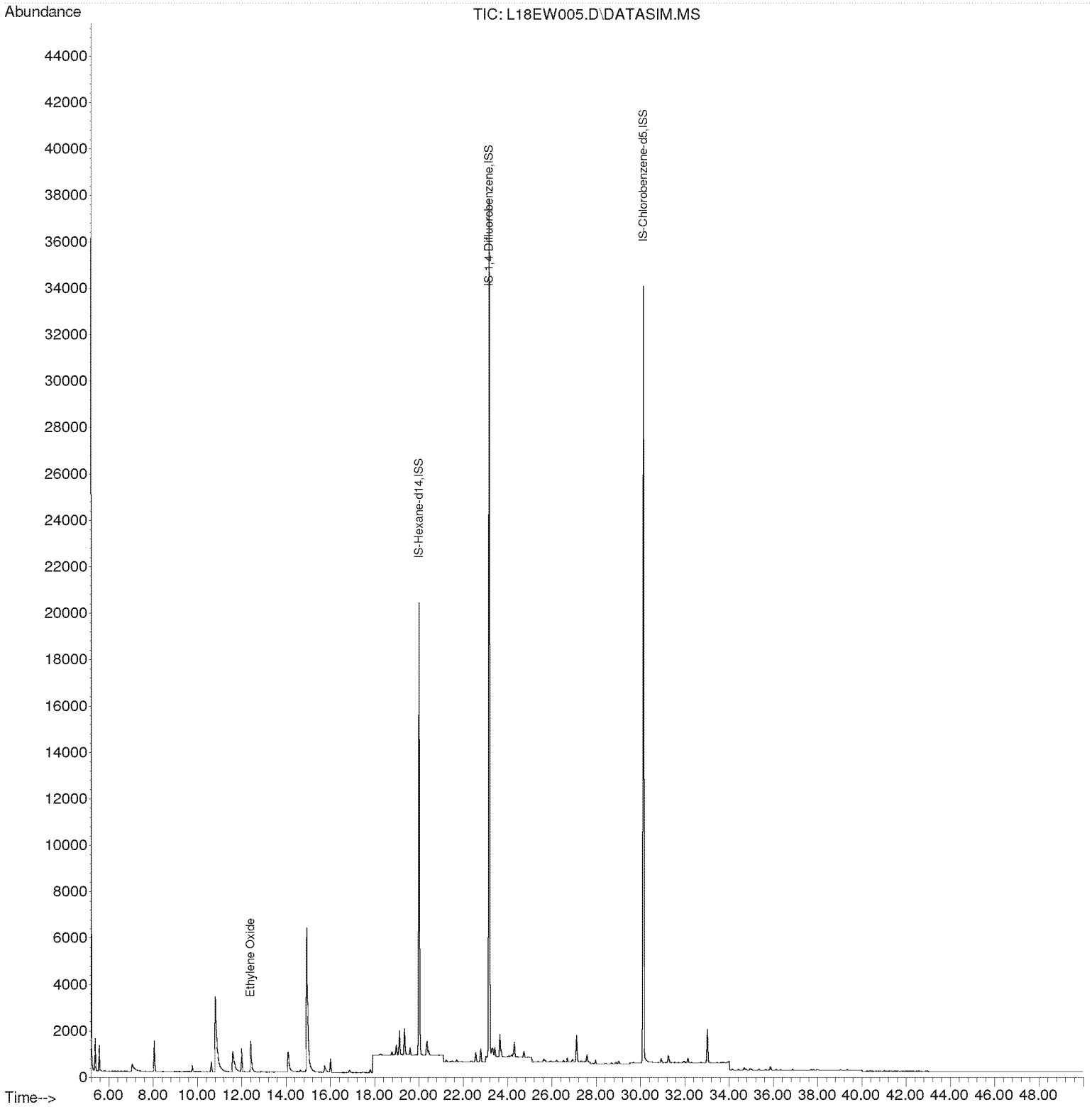
Target Compounds					Qvalue
2) Ethylene Oxide	12.405	29	3213m	2.0447 ppbv	

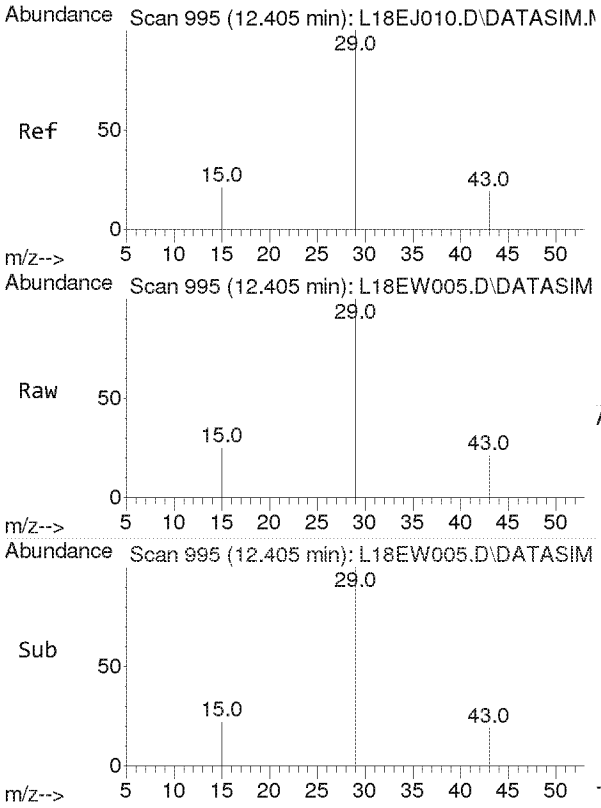
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW005.D
Acq On : 23 May 2018 5:31 pm
Operator : MAH
Sample : 8052134-12
Misc : WBIL C2 5/18/18
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 10:00:55 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

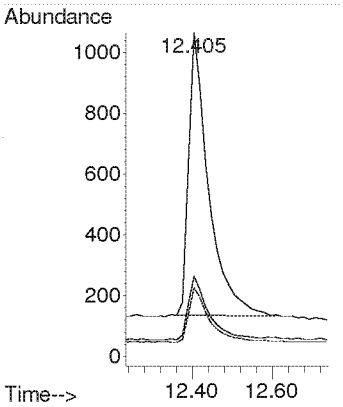




#2
Ethylene Oxide
Concen: 2.045 ppbv m
RT: 12.405 min Scan# 995
Delta R.T. -0.072 min
Lab File: L18EW005.D
Acq: 23 May 2018 5:31 pm

Tgt Ion: 29 Resp: 3213

Ion	Ratio	Lower	Upper
29	100		
15	24.1	20.4	30.6
43	19.9	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW006.D
Acq On : 23 May 2018 6:33 pm
Operator : MAH
Sample : B8E2305-DUP1
Misc : WBIL R1 5/18/18
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 10:00:58 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	30636	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	74961	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	48456	4.7000 ppbv	0.00

System Monitoring Compounds

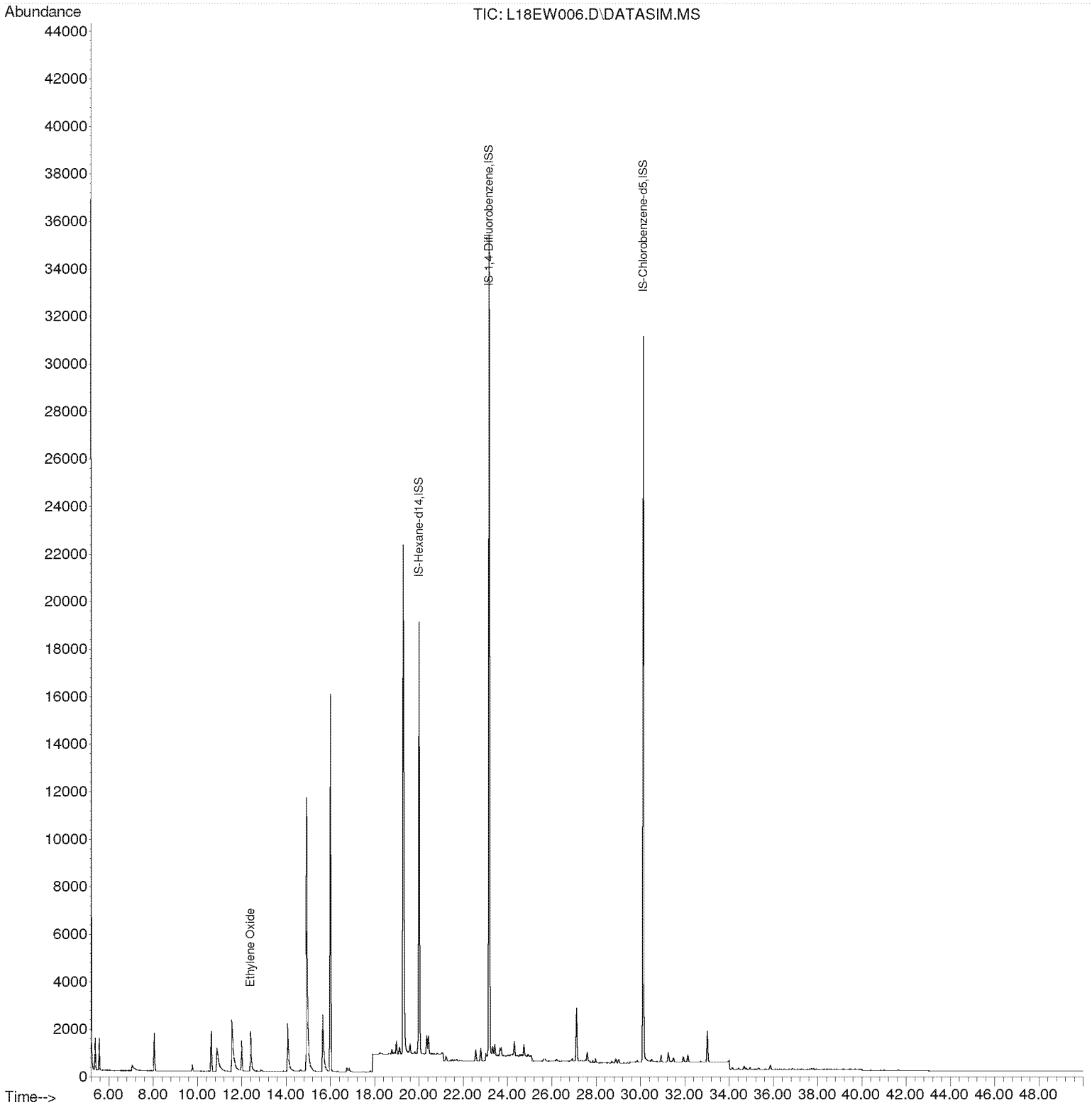
Target Compounds					Qvalue
2) Ethylene Oxide	12.405	29	4082m	2.8011 ppbv	

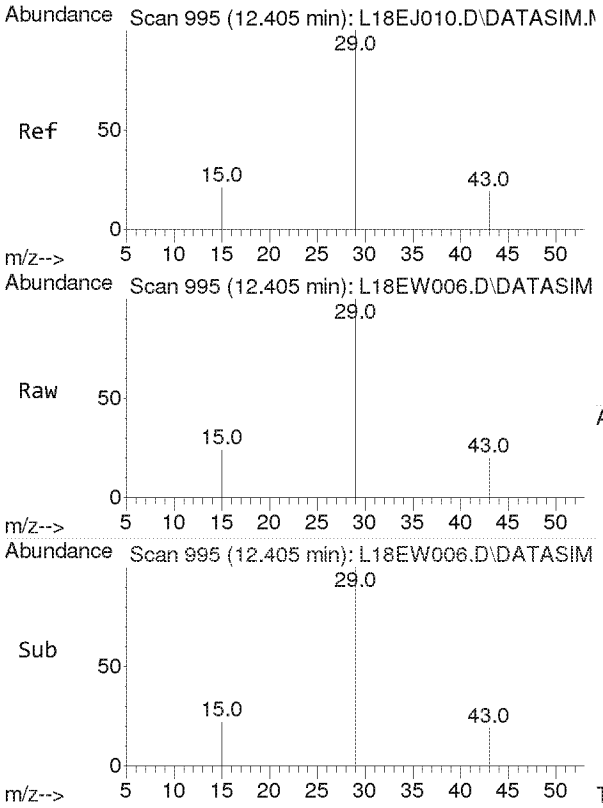
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW006.D
Acq On : 23 May 2018 6:33 pm
Operator : MAH
Sample : B8E2305-DUP1
Misc : WBIL R1 5/18/18
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 10:00:58 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

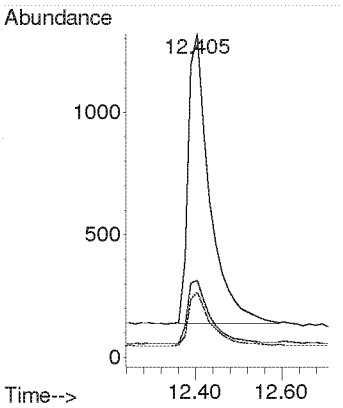




#2
Ethylene Oxide
Concen: 2.801 ppbv m
RT: 12.405 min Scan# 995
Delta R.T. -0.072 min
Lab File: L18EW006.D
Acq: 23 May 2018 6:33 pm

Tgt Ion: 29 Resp: 4082

Ion	Ratio	Lower	Upper
29	100		
15	23.7	20.4	30.6
43	19.9	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW007.D
Acq On : 23 May 2018 7:35 pm
Operator : MAH
Sample : B8E2305-DUP2
Misc : WBIL R2 5/18/18
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 10:01:02 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32850	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	80989	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	52058	4.7000 ppbv	0.00

System Monitoring Compounds

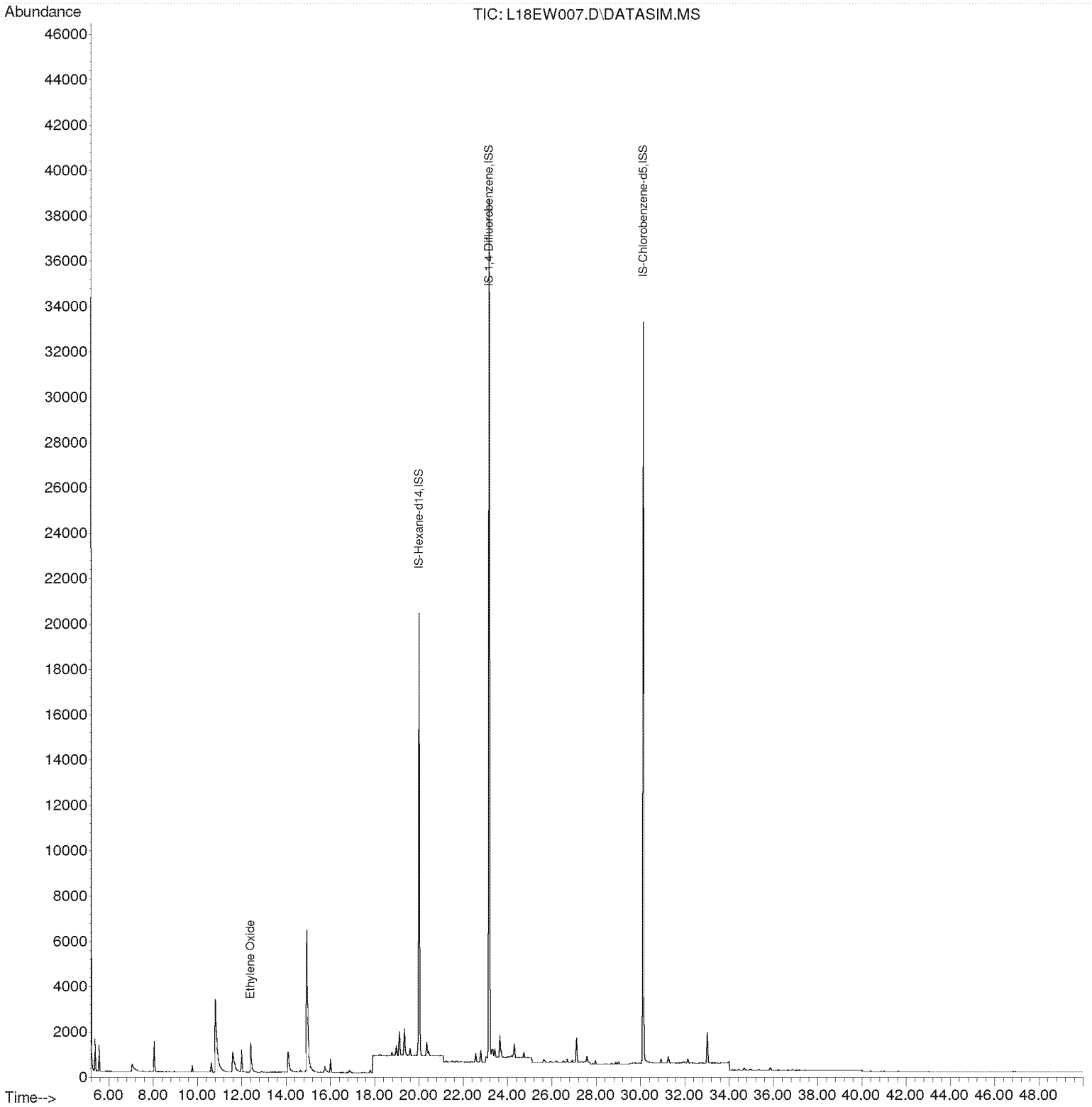
Target Compounds					Qvalue
2) Ethylene Oxide	12.405	29	3230m	2.0671 ppbv	

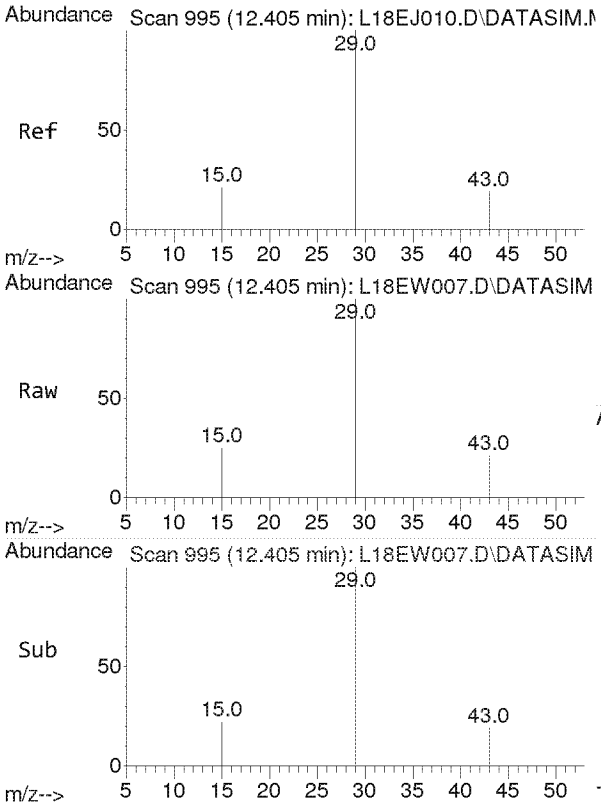
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW007.D
Acq On : 23 May 2018 7:35 pm
Operator : MAH
Sample : B8E2305-DUP2
Misc : WBIL R2 5/18/18
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 10:01:02 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

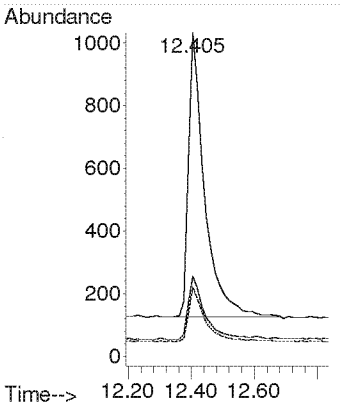




#2
Ethylene Oxide
Concen: 2.067 ppbv m
RT: 12.405 min Scan# 995
Delta R.T. -0.072 min
Lab File: L18EW007.D
Acq: 23 May 2018 7:35 pm

Tgt Ion: 29 Resp: 3230

Ion	Ratio	Lower	Upper
29	100		
15	23.6	20.4	30.6
43	19.3	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW008.D
Acq On : 23 May 2018 8:38 pm
Operator : MAH
Sample : 8052134-13
Misc : WBIL 5/18/18
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 10:01:05 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31280	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	76140	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	49088	4.7000 ppbv	0.00

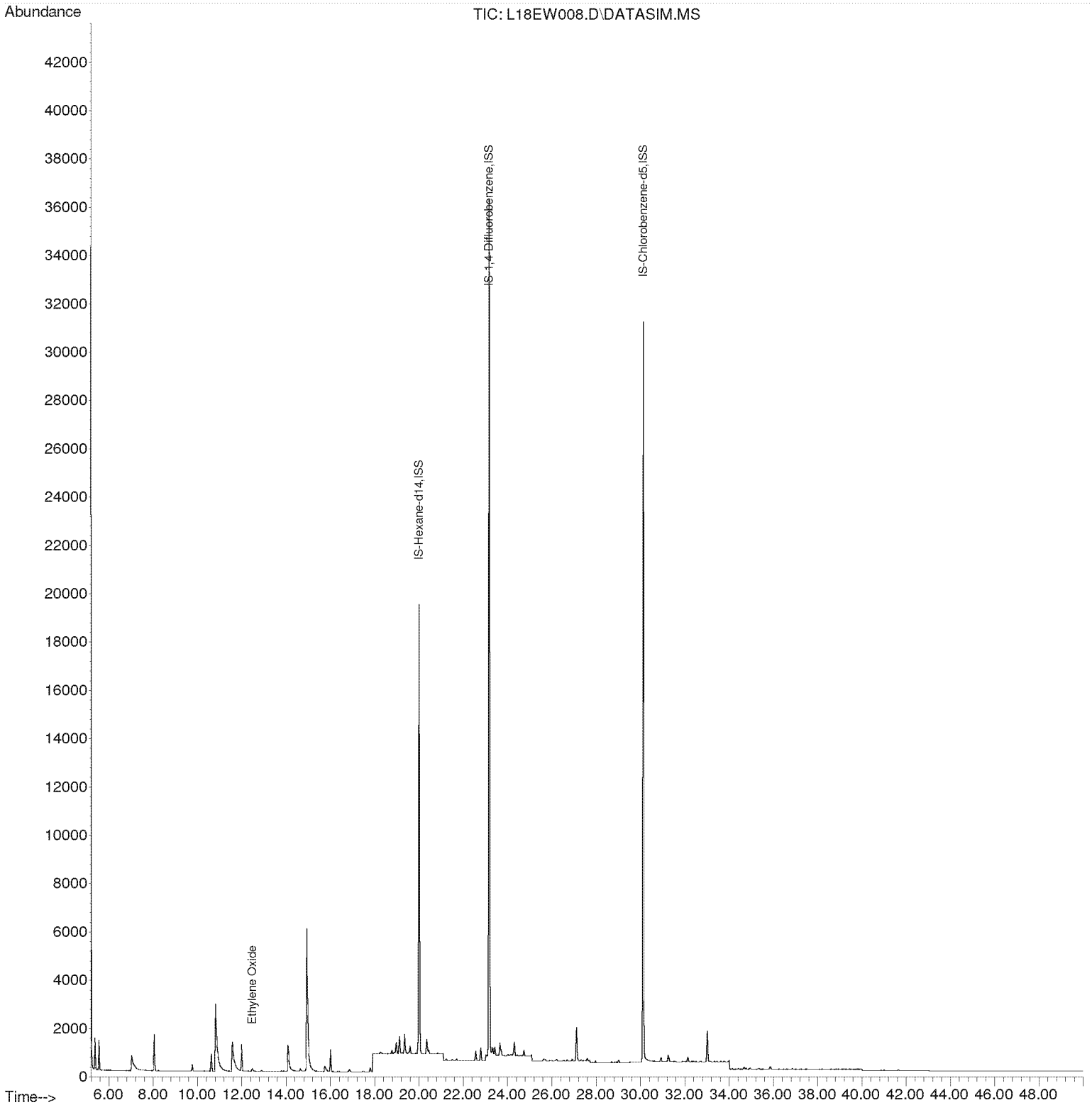
System Monitoring Compounds

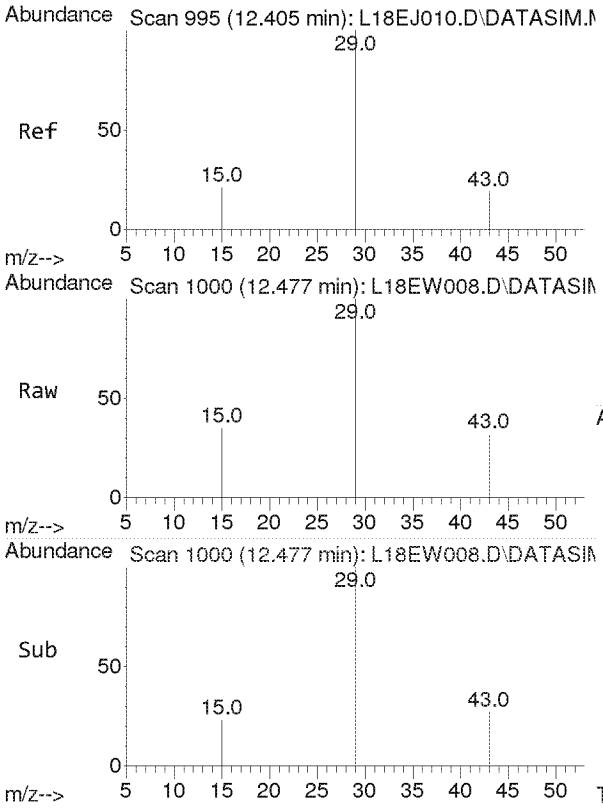
Target Compounds					Qvalue
2) Ethylene Oxide	12.477	29	278m	0.1868 ppbv	

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

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW008.D
Acq On : 23 May 2018 8:38 pm
Operator : MAH
Sample : 8052134-13
Misc : WBIL 5/18/18
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 24 10:01:05 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

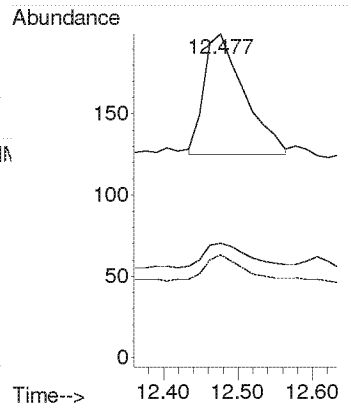




#2
Ethylene Oxide
Concen: 0.187 ppbv m
RT: 12.477 min Scan# 1000
Delta R.T. 0.000 min
Lab File: L18EW008.D
Acq: 23 May 2018 8:38 pm

Tgt Ion: 29 Resp: 278

Ion	Ratio	Lower	Upper
29	100		
15	23.0	20.4	30.6
43	22.7	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW009.D
Acq On : 23 May 2018 9:40 pm
Operator : MAH
Sample : 8052134-14
Misc : WBIL 5/17/18
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 10:01:08 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	29856	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	72517	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	46133	4.7000 ppbv	0.00

System Monitoring Compounds

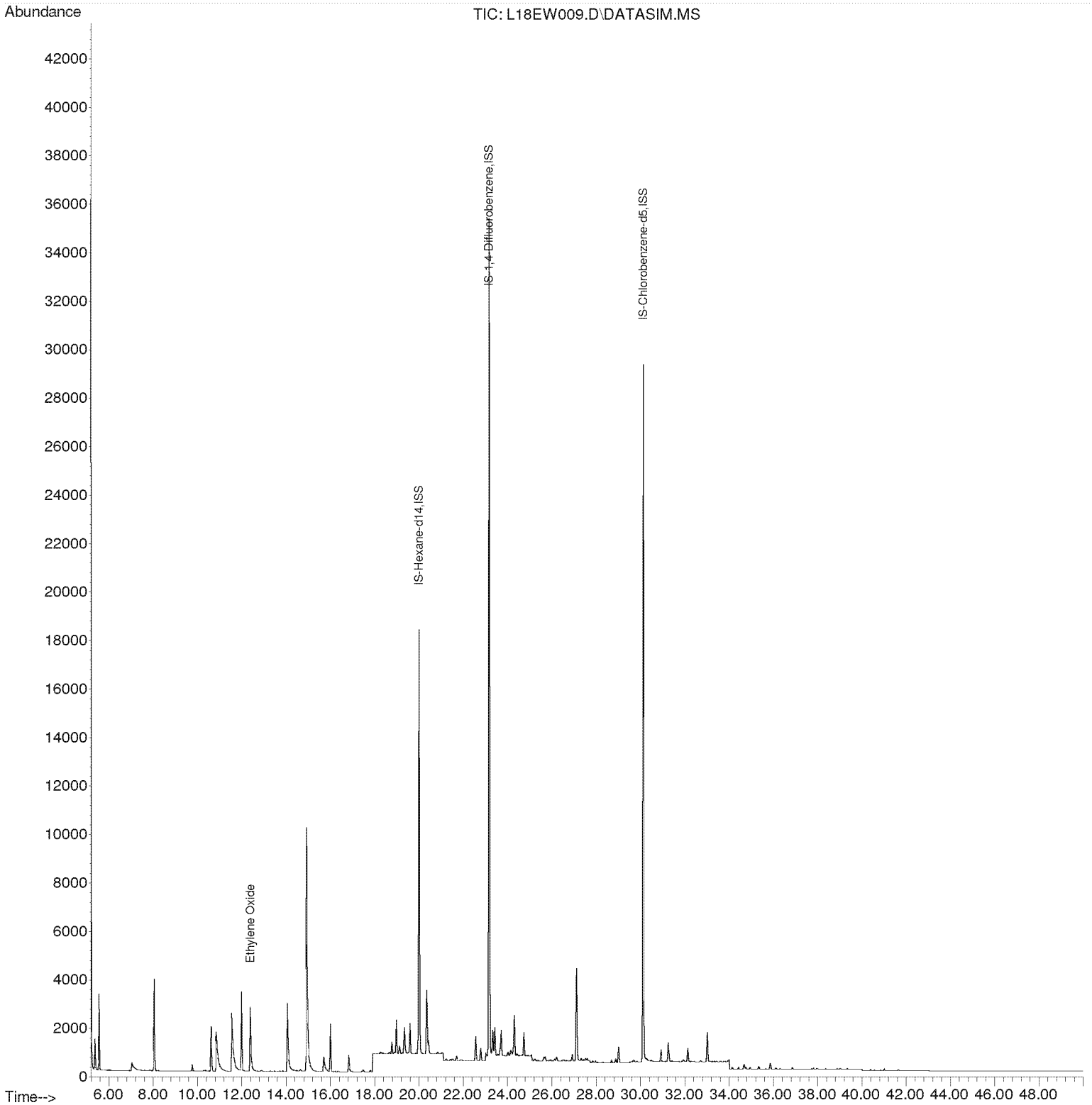
Target Compounds					Qvalue
2) Ethylene Oxide	12.391	29	6459	4.5480 ppbv	95

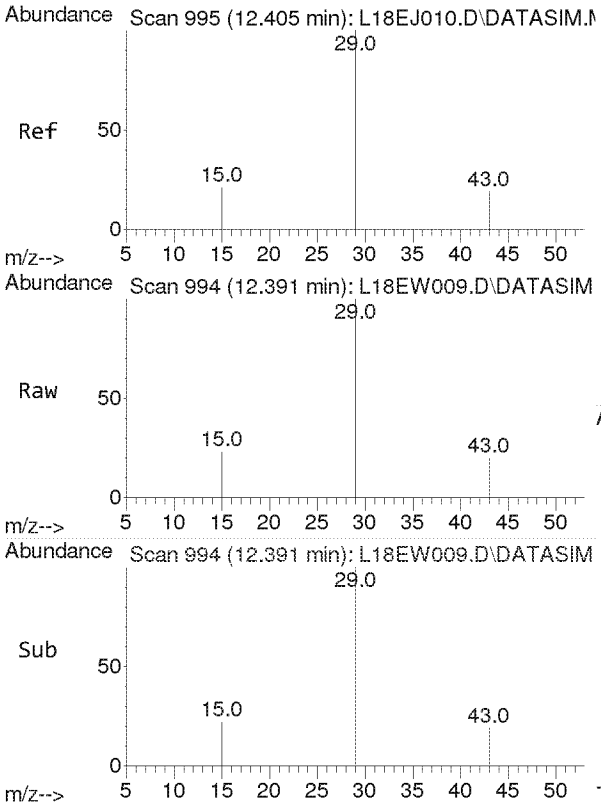
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW009.D
Acq On : 23 May 2018 9:40 pm
Operator : MAH
Sample : 8052134-14
Misc : WBIL 5/17/18
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 10:01:08 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

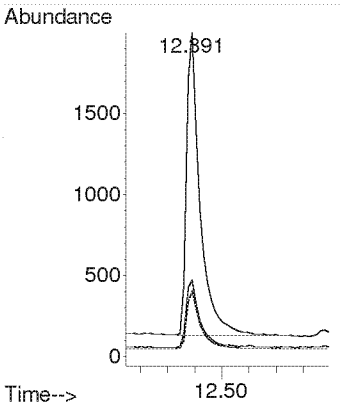




#2
Ethylene Oxide
Concen: 4.548 ppbv
RT: 12.391 min Scan# 994
Delta R.T. -0.086 min
Lab File: L18EW009.D
Acq: 23 May 2018 9:40 pm

Tgt Ion: 29 Resp: 6459

Ion	Ratio	Lower	Upper
29	100		
15	22.2	20.4	30.6
43	19.4	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW010.D
Acq On : 23 May 2018 10:42 pm
Operator : MAH
Sample : 8052134-15
Misc : WBIL 5/17/18
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 10:01:11 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32214	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	77398	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	49190	4.7000 ppbv	0.00

System Monitoring Compounds

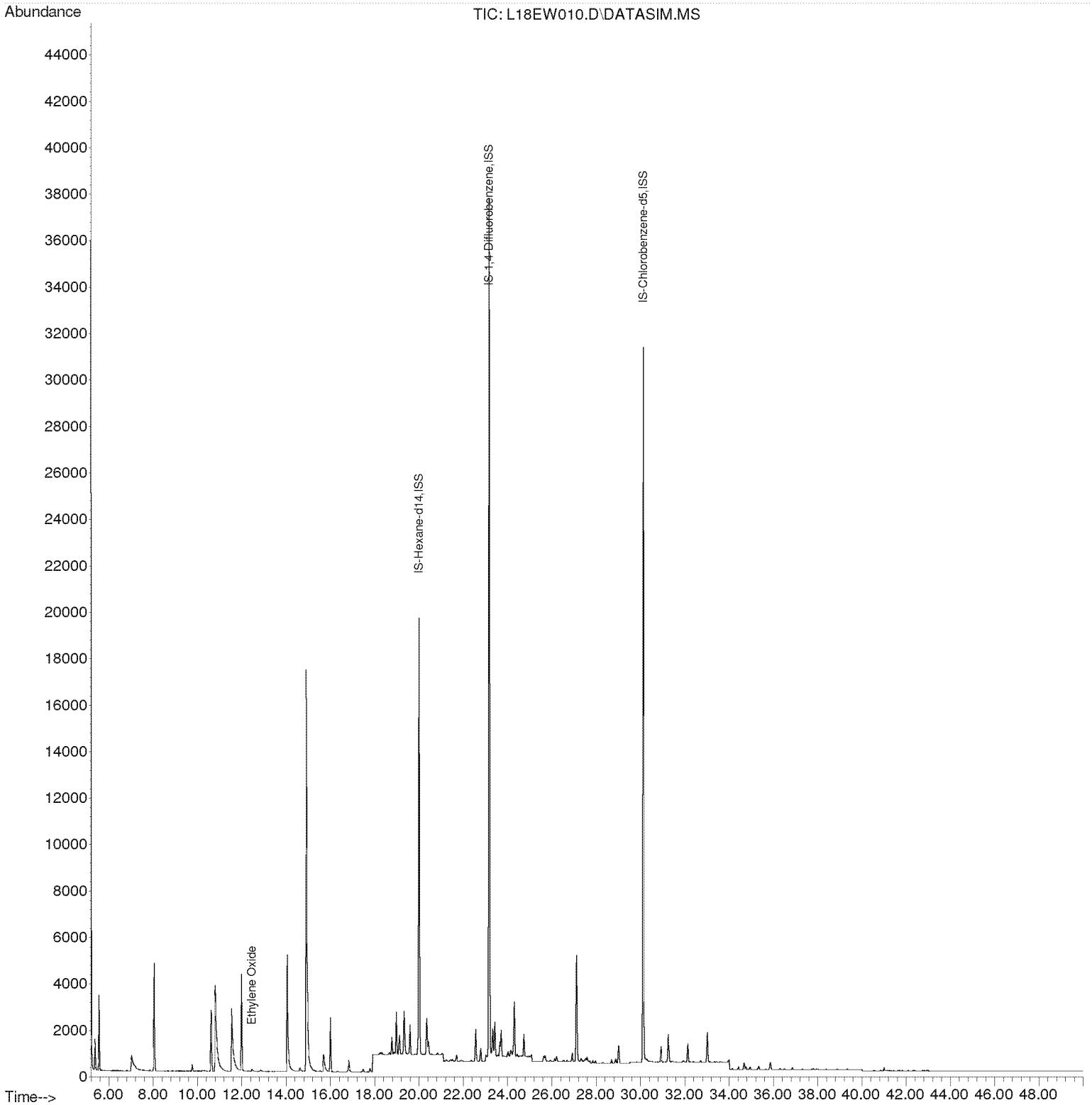
Target Compounds					Qvalue
2) Ethylene Oxide	12.463	29	348	0.2271 ppbv #	91

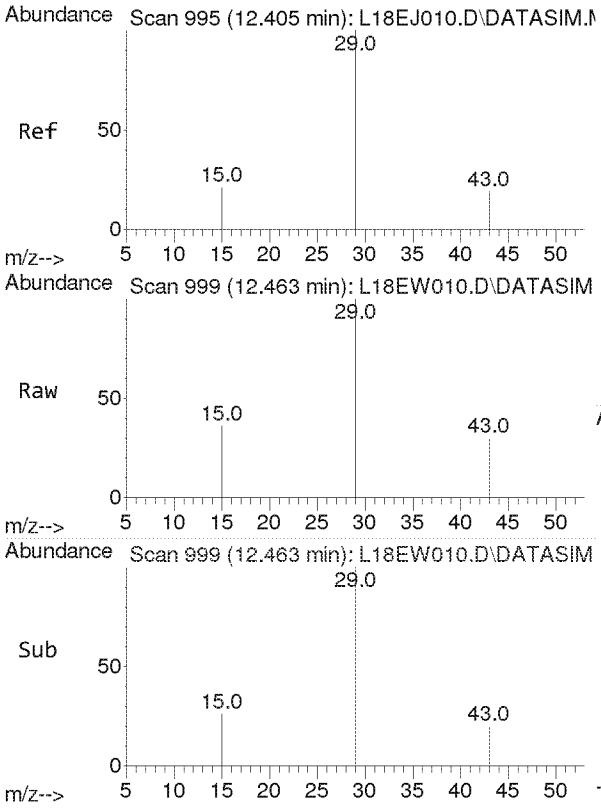
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW010.D
Acq On : 23 May 2018 10:42 pm
Operator : MAH
Sample : 8052134-15
Misc : WBIL 5/17/18
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 24 10:01:11 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

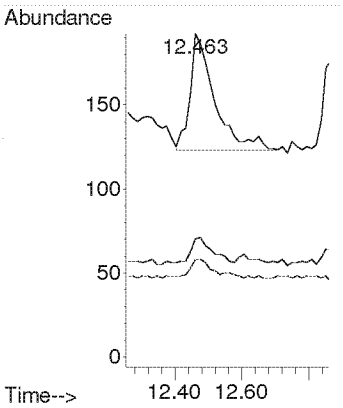




#2
Ethylene Oxide
Concen: 0.227 ppbv
RT: 12.463 min Scan# 999
Delta R.T. -0.014 min
Lab File: L18EW010.D
Acq: 23 May 2018 10:42 pm

Tgt Ion: 29 Resp: 348

Ion	Ratio	Lower	Upper
29	100		
15	21.6	20.4	30.6
43	15.8	16.2	24.4#



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW011.D
Acq On : 23 May 2018 11:44 pm
Operator : MAH
Sample : 8052134-16
Misc : WBIL 5/17/18
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 24 10:01:14 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31393	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	76945	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	48033	4.7000 ppbv	0.00

System Monitoring Compounds

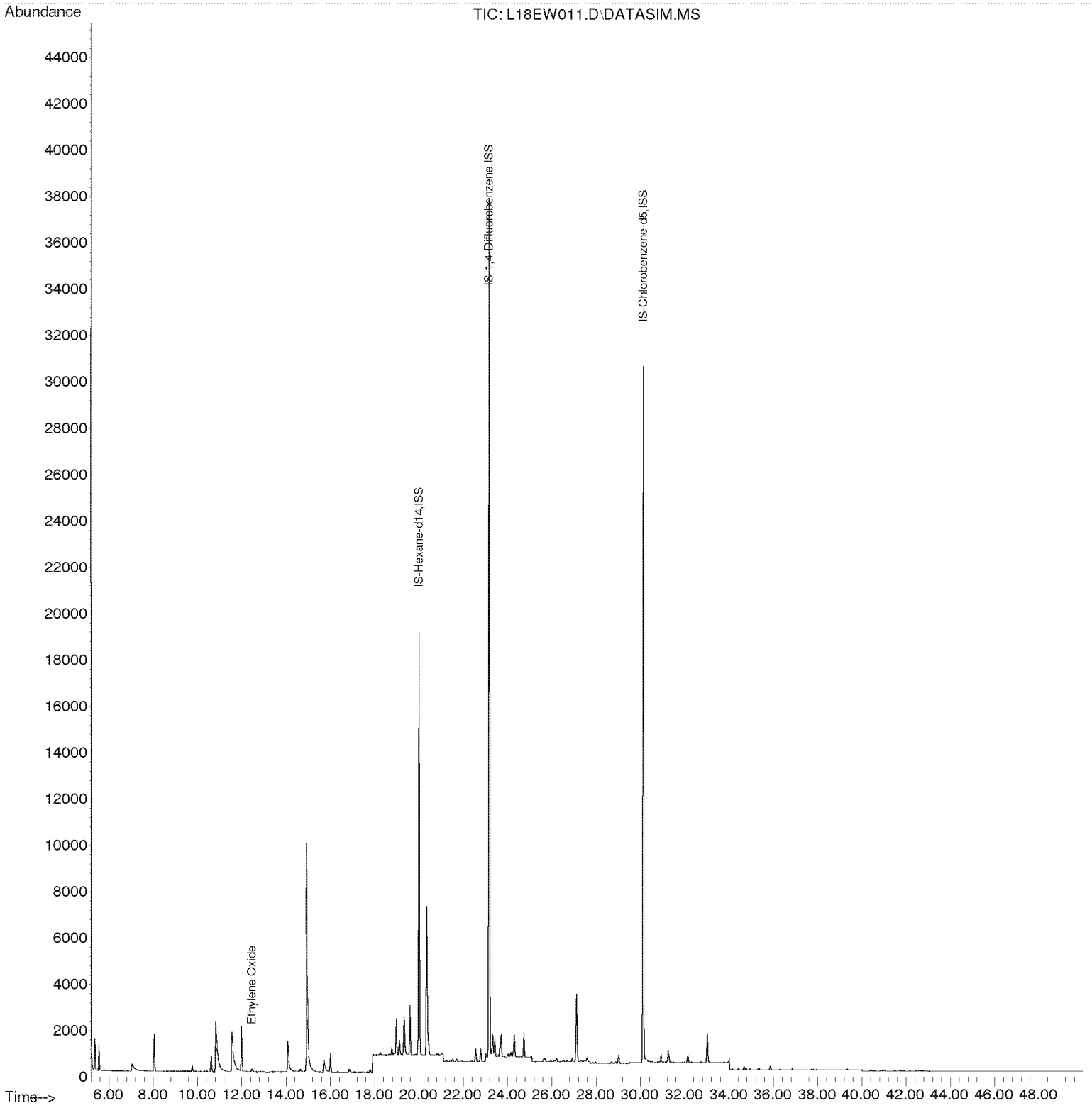
Target Compounds					Qvalue
2) Ethylene Oxide	12.463	29	369	0.2471 ppbv	97

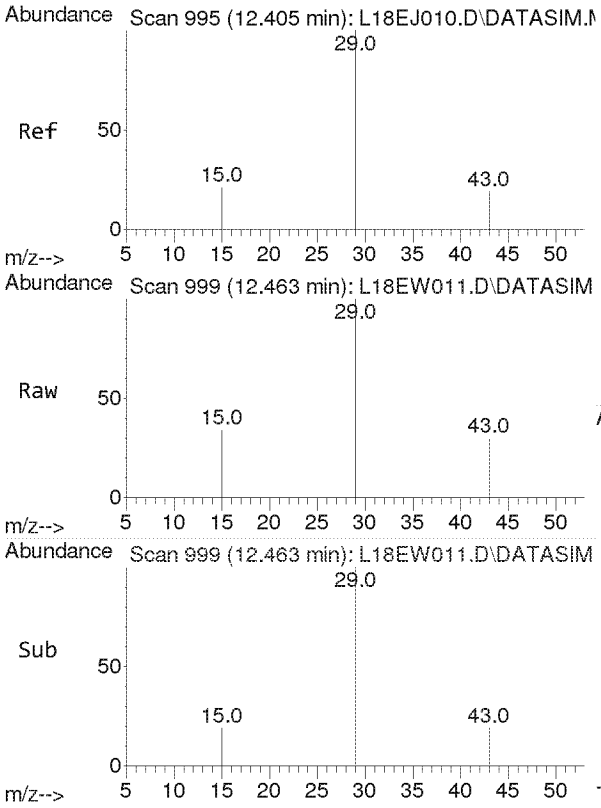
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW011.D
Acq On : 23 May 2018 11:44 pm
Operator : MAH
Sample : 8052134-16
Misc : WBIL 5/17/18
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 24 10:01:14 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

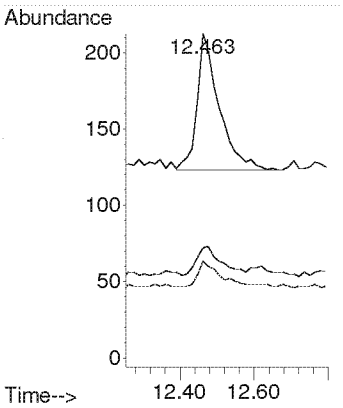




#2
Ethylene Oxide
Concen: 0.247 ppbv
RT: 12.463 min Scan# 999
Delta R.T. -0.014 min
Lab File: L18EW011.D
Acq: 23 May 2018 11:44 pm

Tgt Ion: 29 Resp: 369

Ion	Ratio	Lower	Upper
29	100		
15	24.7	20.4	30.6
43	22.2	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW012.D
Acq On : 24 May 2018 12:46 am
Operator : MAH
Sample : 8052134-17
Misc : WBIL 5/17/18
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 24 10:01:17 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31495	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	74962	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	48838	4.7000 ppbv	0.00

System Monitoring Compounds

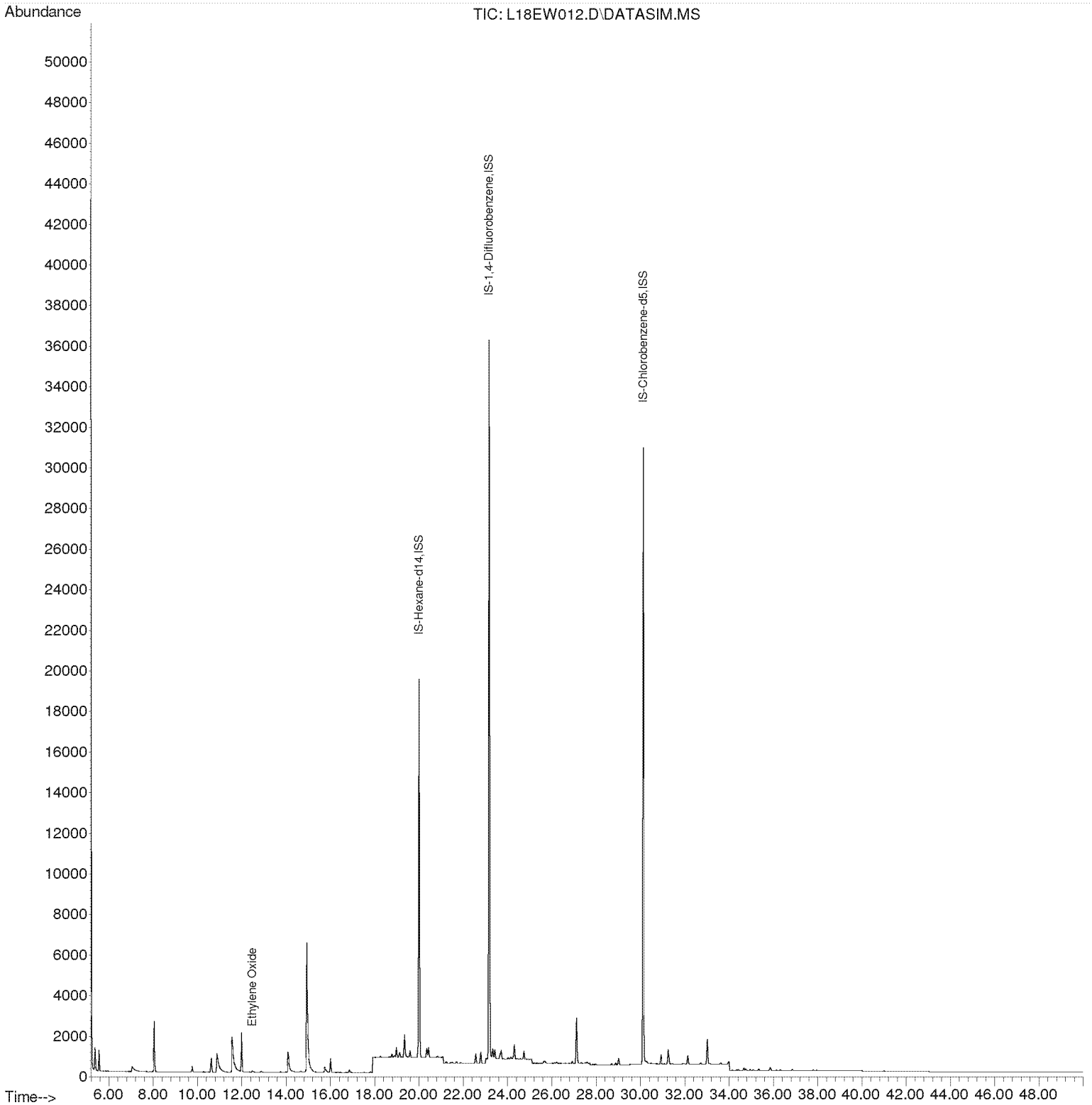
Target Compounds					Qvalue
2) Ethylene Oxide	12.477	29	144m	0.0961 ppbv	

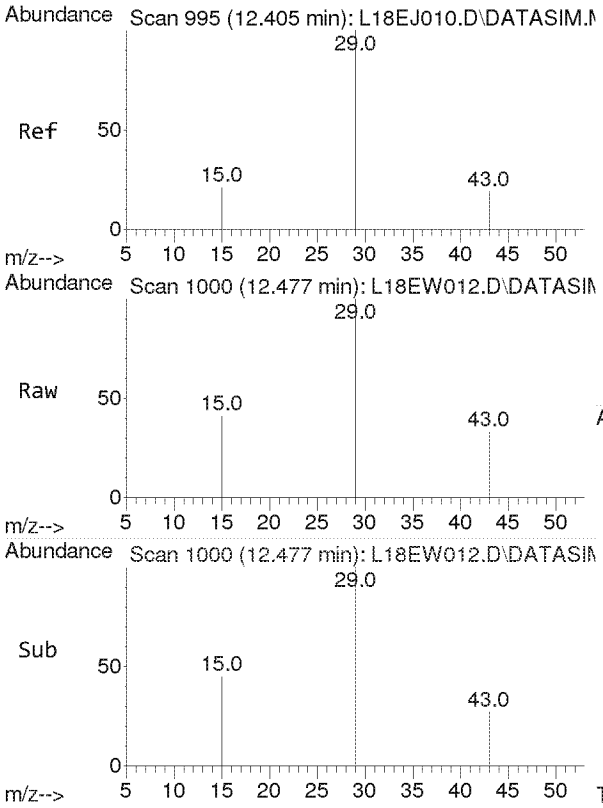
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW012.D
Acq On : 24 May 2018 12:46 am
Operator : MAH
Sample : 8052134-17
Misc : WBIL 5/17/18
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 24 10:01:17 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

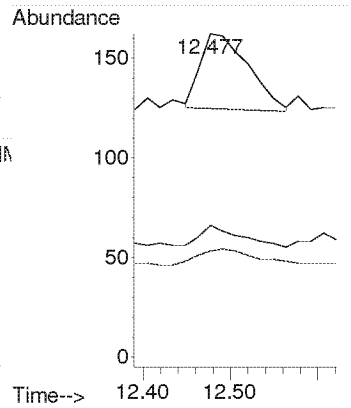




#2
Ethylene Oxide
Concen: 0.096 ppbv m
RT: 12.477 min Scan# 1000
Delta R.T. 0.000 min
Lab File: L18EW012.D
Acq: 24 May 2018 12:46 am

Tgt Ion: 29 Resp: 144

Ion	Ratio	Lower	Upper
29	100		
15	24.3	20.4	30.6
43	28.5	16.2	24.4#



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW013.D
Acq On : 24 May 2018 1:49 am
Operator : MAH
Sample : 8052134-18
Misc : WBIL 5/17/18
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 24 10:01:20 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	30795	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	75369	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	47702	4.7000 ppbv	0.00

System Monitoring Compounds

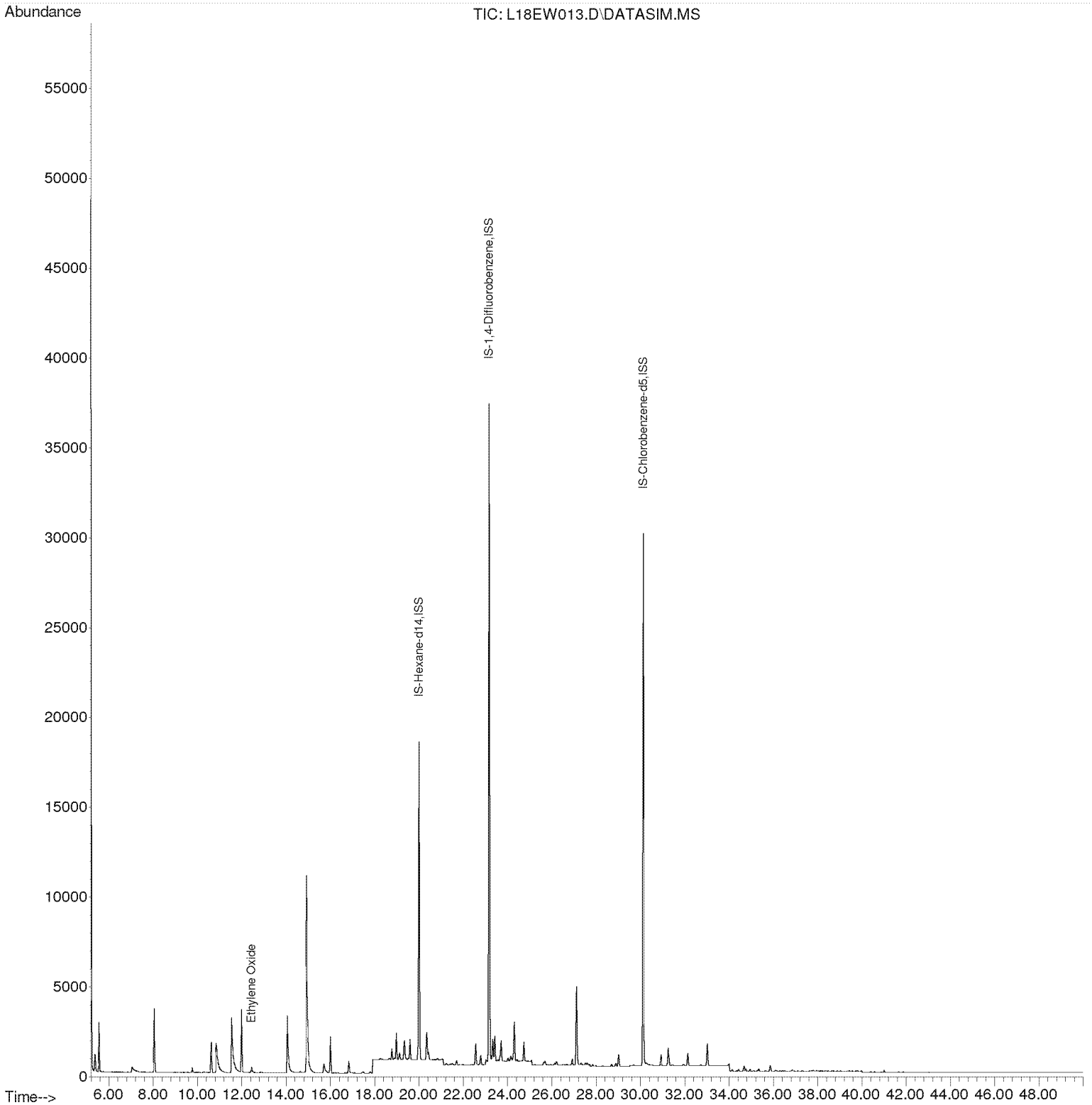
Target Compounds					Qvalue
2) Ethylene Oxide	12.434	29	792m	0.5407 ppbv	

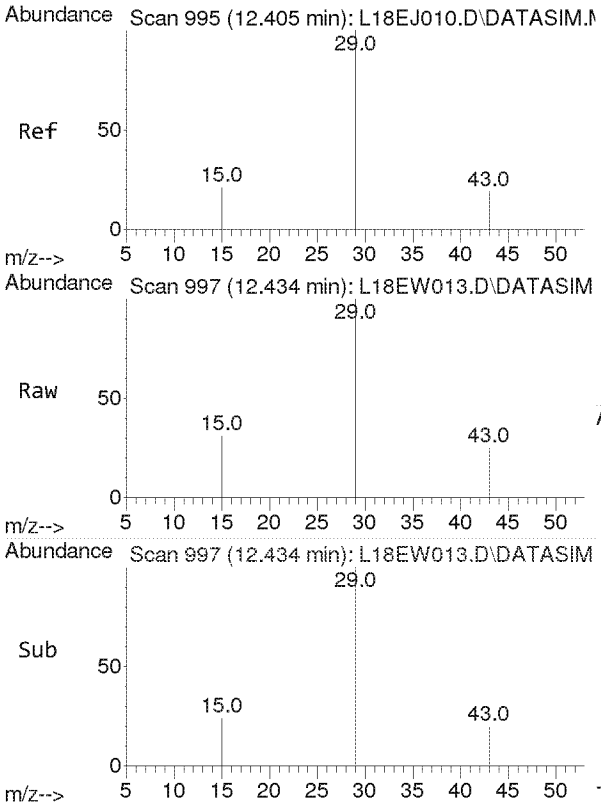
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW013.D
Acq On : 24 May 2018 1:49 am
Operator : MAH
Sample : 8052134-18
Misc : WBIL 5/17/18
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 24 10:01:20 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

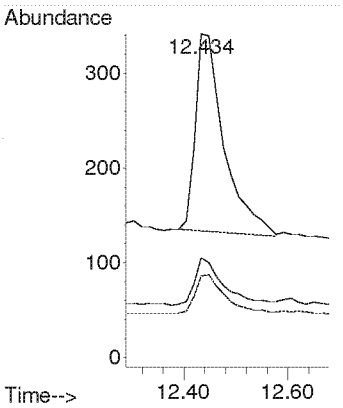




#2
Ethylene Oxide
Concen: 0.541 ppbv m
RT: 12.434 min Scan# 997
Delta R.T. -0.043 min
Lab File: L18EW013.D
Acq: 24 May 2018 1:49 am

Tgt Ion: 29 Resp: 792

Ion	Ratio	Lower	Upper
29	100		
15	27.8	20.4	30.6
43	19.9	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW014.D
Acq On : 24 May 2018 2:51 am
Operator : MAH
Sample : 8052134-19
Misc : WBIL 5/17/18
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 24 10:01:23 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32464	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	79272	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	50699	4.7000 ppbv	0.00

System Monitoring Compounds

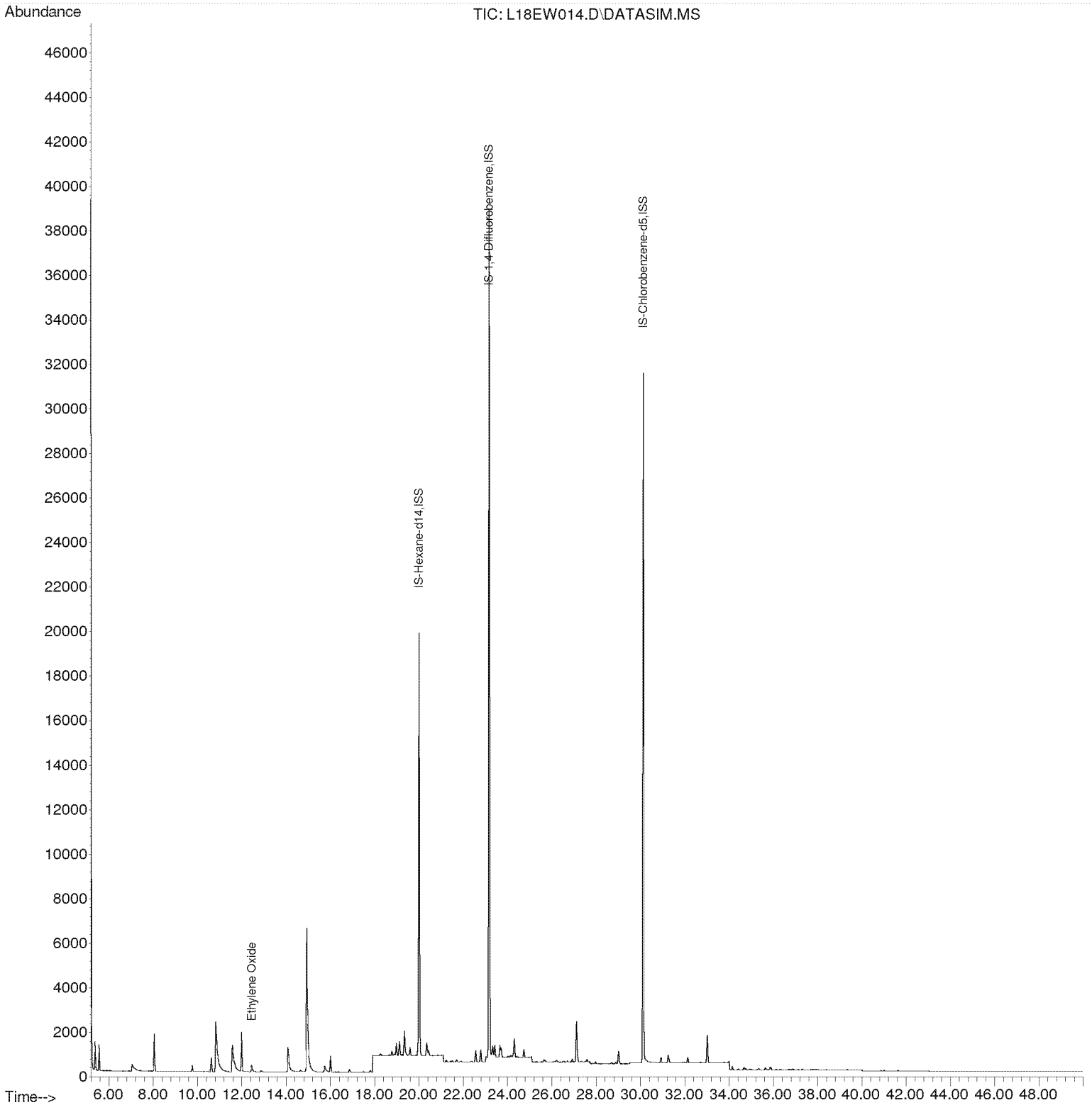
Target Compounds					Qvalue
2) Ethylene Oxide	12.448	29	799	0.5174 ppbv	98

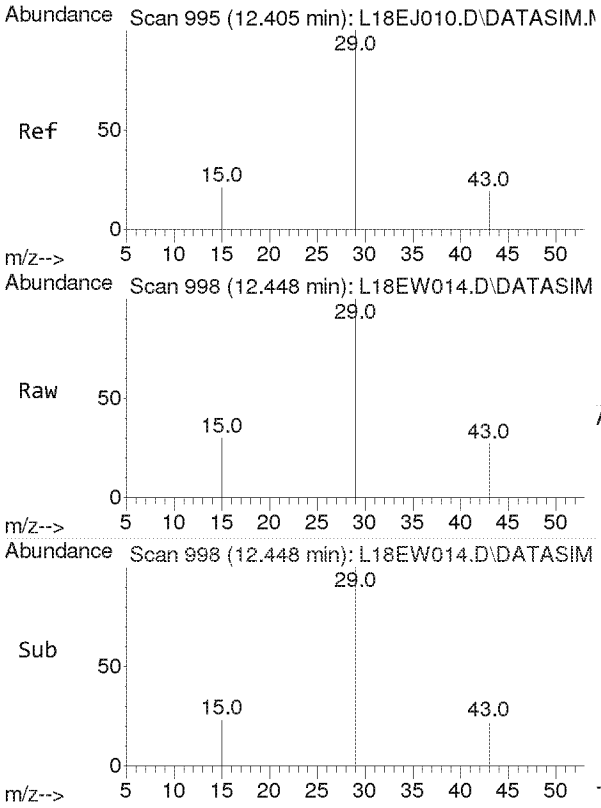
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW014.D
Acq On : 24 May 2018 2:51 am
Operator : MAH
Sample : 8052134-19
Misc : WBIL 5/17/18
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 24 10:01:23 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

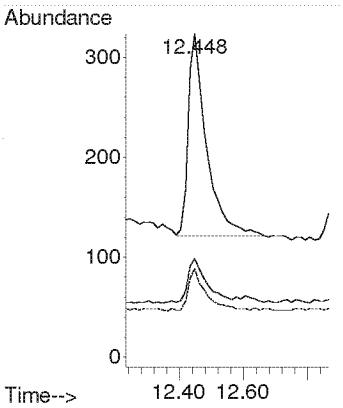




#2
Ethylene Oxide
Concen: 0.517 ppbv
RT: 12.448 min Scan# 998
Delta R.T. -0.029 min
Lab File: L18EW014.D
Acq: 24 May 2018 2:51 am

Tgt Ion: 29 Resp: 799

Ion	Ratio	Lower	Upper
29	100		
15	26.3	20.4	30.6
43	21.8	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW015.D
Acq On : 24 May 2018 3:53 am
Operator : MAH
Sample : 8052134-20
Misc : WBIL C1 5/17/18
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 10:01:26 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32360	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	78269	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	48888	4.7000 ppbv	0.00

System Monitoring Compounds

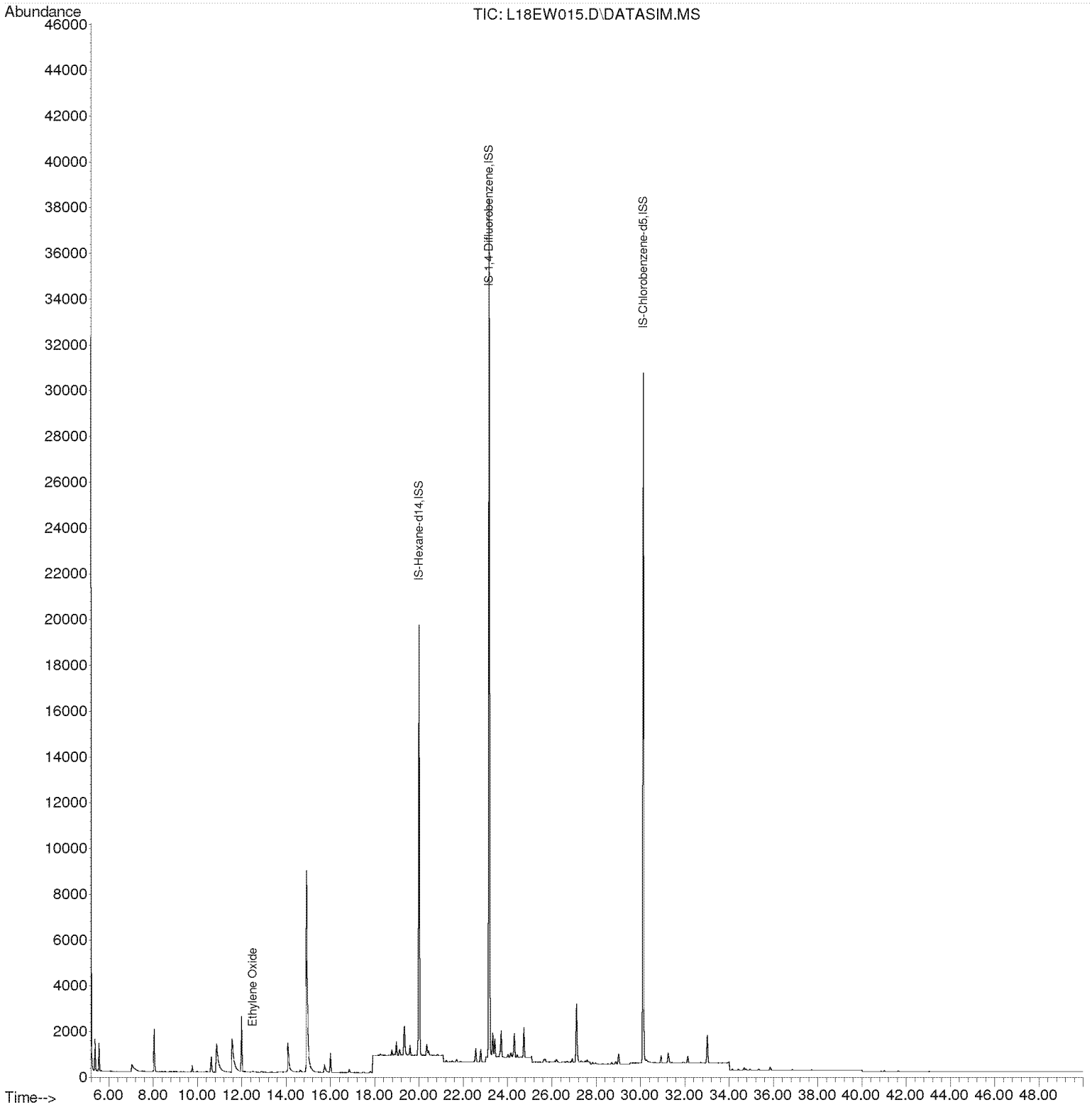
Target Compounds					Qvalue
2) Ethylene Oxide	12.491	29	139m	0.0903 ppbv	

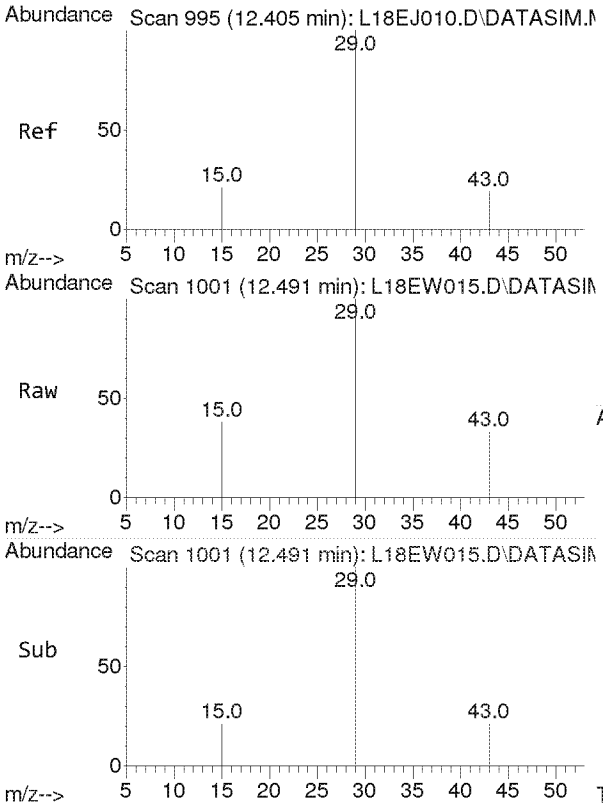
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW015.D
Acq On : 24 May 2018 3:53 am
Operator : MAH
Sample : 8052134-20
Misc : WBIL C1 5/17/18
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 24 10:01:26 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

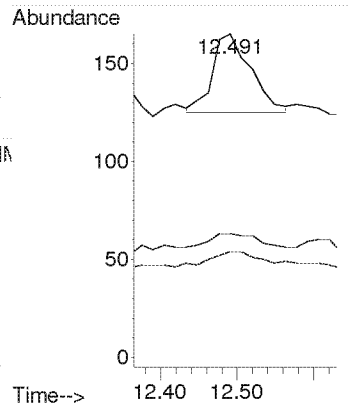




#2
Ethylene Oxide
Concen: 0.090 ppbv m
RT: 12.491 min Scan# 1001
Delta R.T. 0.014 min
Lab File: L18EW015.D
Acq: 24 May 2018 3:53 am

Tgt Ion: 29 Resp: 139

Ion	Ratio	Lower	Upper
29	100		
15	0.0	20.4	30.6#
43	30.9	16.2	24.4#



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW016.D
Acq On : 24 May 2018 4:55 am
Operator : MAH
Sample : 8052134-21
Misc : WBIL C2 5/17/18
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 24 10:01:29 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31209	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	73721	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	46538	4.7000 ppbv	0.00

System Monitoring Compounds

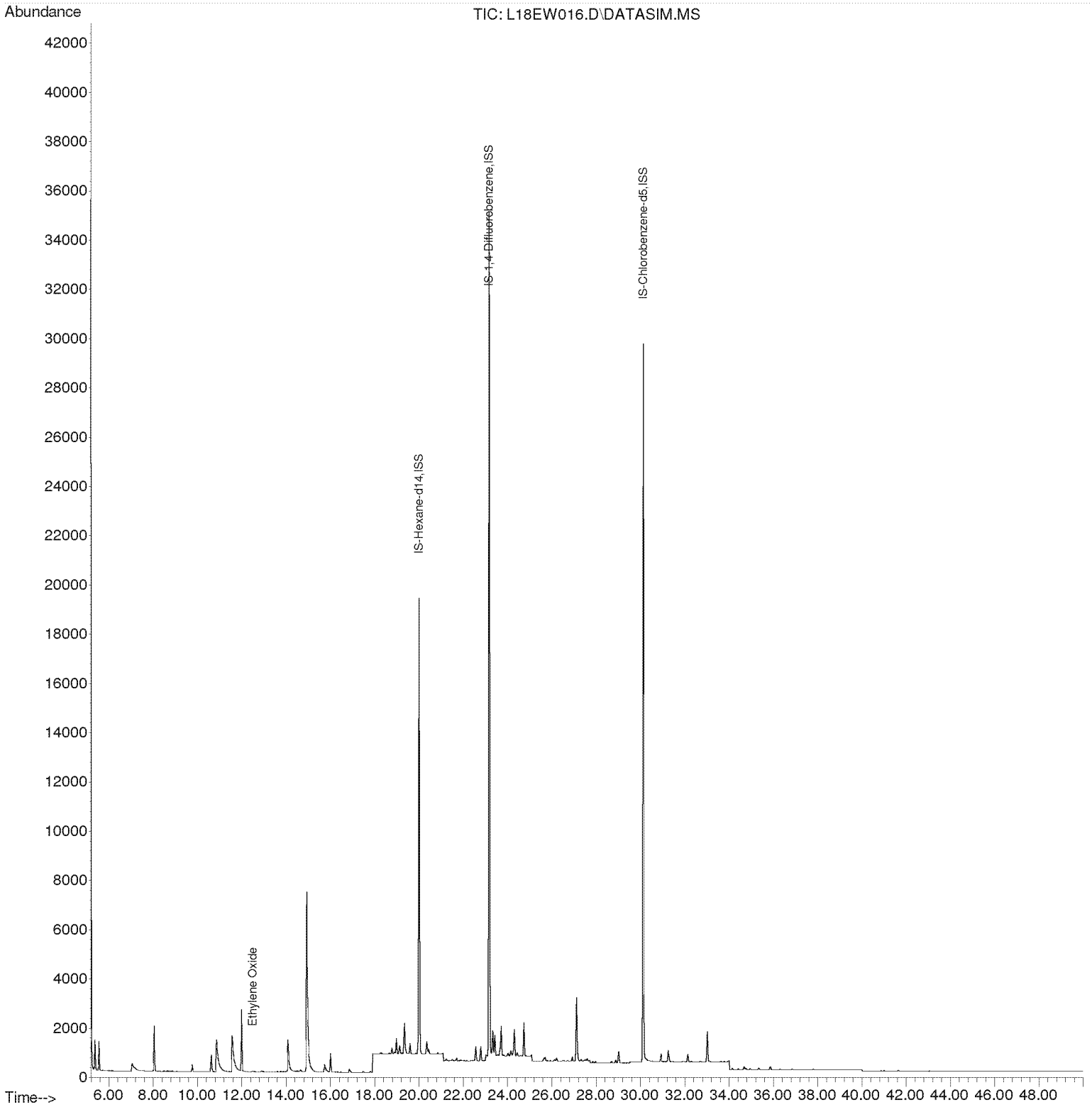
Target Compounds					Qvalue
2) Ethylene Oxide	12.492	29	175	0.1179 ppbv	97

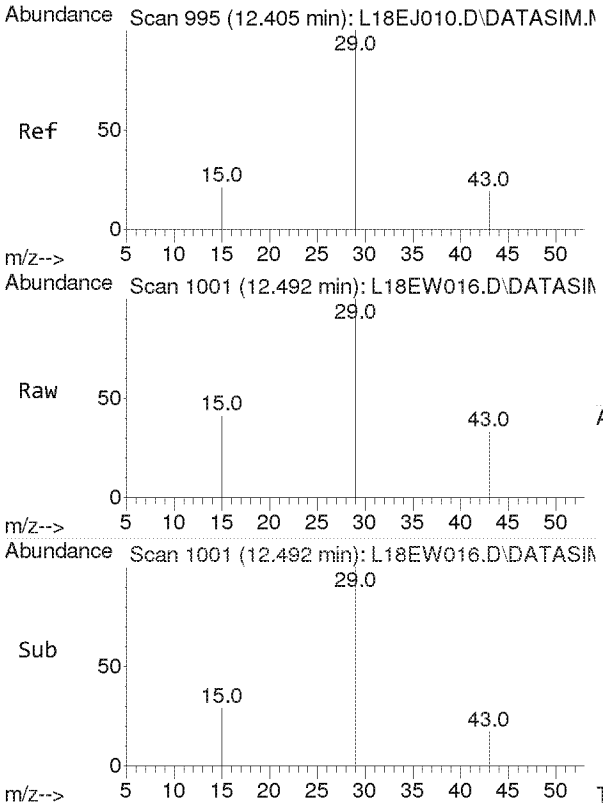
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW016.D
Acq On : 24 May 2018 4:55 am
Operator : MAH
Sample : 8052134-21
Misc : WBIL C2 5/17/18
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 24 10:01:29 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

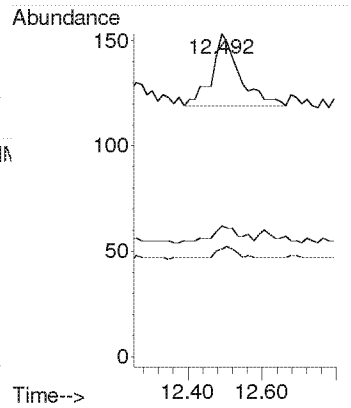




#2
Ethylene Oxide
Concen: 0.118 ppbv
RT: 12.492 min Scan# 1001
Delta R.T. 0.015 min
Lab File: L18EW016.D
Acq: 24 May 2018 4:55 am

Tgt Ion: 29 Resp: 175

Ion	Ratio	Lower	Upper
29	100		
15	23.4	20.4	30.6
43	20.0	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW017.D
Acq On : 24 May 2018 5:58 am
Operator : MAH
Sample : B8E2305-DUP3
Misc : WBIL R1 5/17/18
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 24 10:01:32 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	30918	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	76019	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	47514	4.7000 ppbv	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Ethylene Oxide	12.492	29	128m	0.0870 ppbv	

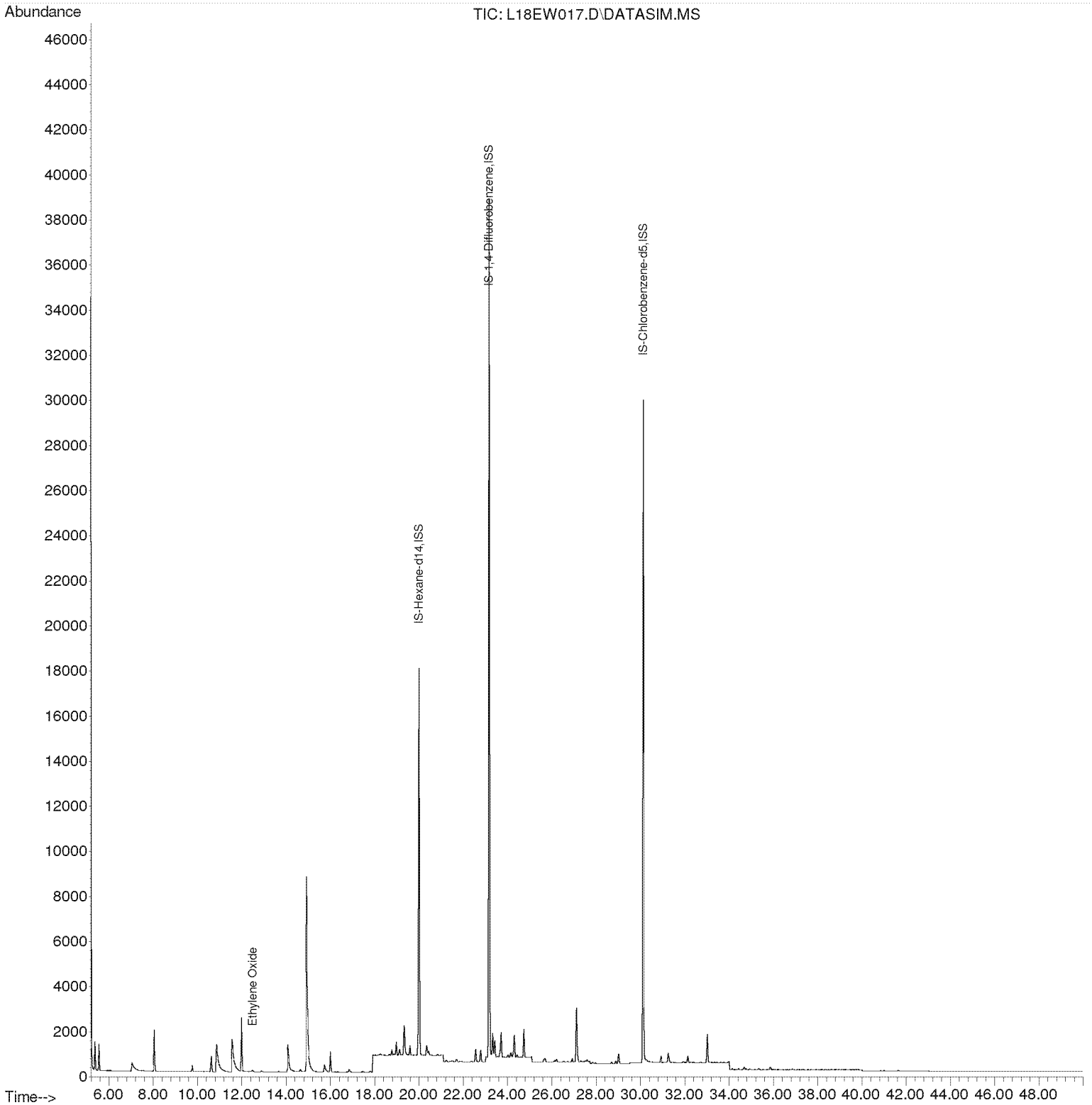
(#) = qualifier out of range (m) = manual integration (+) = signals summed

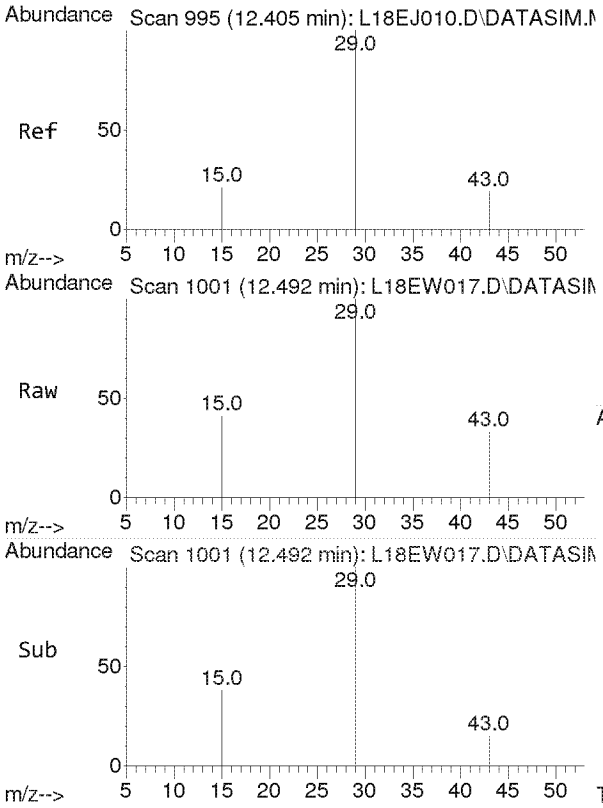
ED_002475_00000167-00054

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW017.D
Acq On : 24 May 2018 5:58 am
Operator : MAH
Sample : B8E2305-DUP3
Misc : WBIL R1 5/17/18
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 24 10:01:32 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

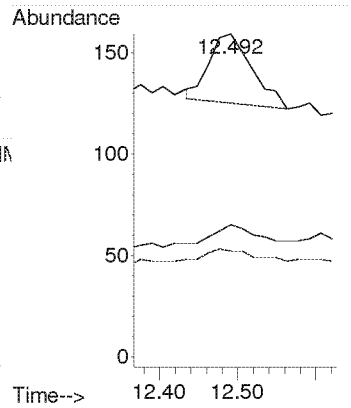




#2
Ethylene Oxide
Concen: 0.087 ppbv m
RT: 12.492 min Scan# 1001
Delta R.T. 0.014 min
Lab File: L18EW017.D
Acq: 24 May 2018 5:58 am

Tgt Ion: 29 Resp: 128

Ion	Ratio	Lower	Upper
29	100		
15	39.8	20.4	30.6#
43	30.5	16.2	24.4#



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW018.D
Acq On : 24 May 2018 7:00 am
Operator : MAH
Sample : B8E2305-DUP4
Misc : WBIL R2 5/17/18
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 24 10:01:35 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32125	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	78678	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	48656	4.7000 ppbv	0.00

System Monitoring Compounds

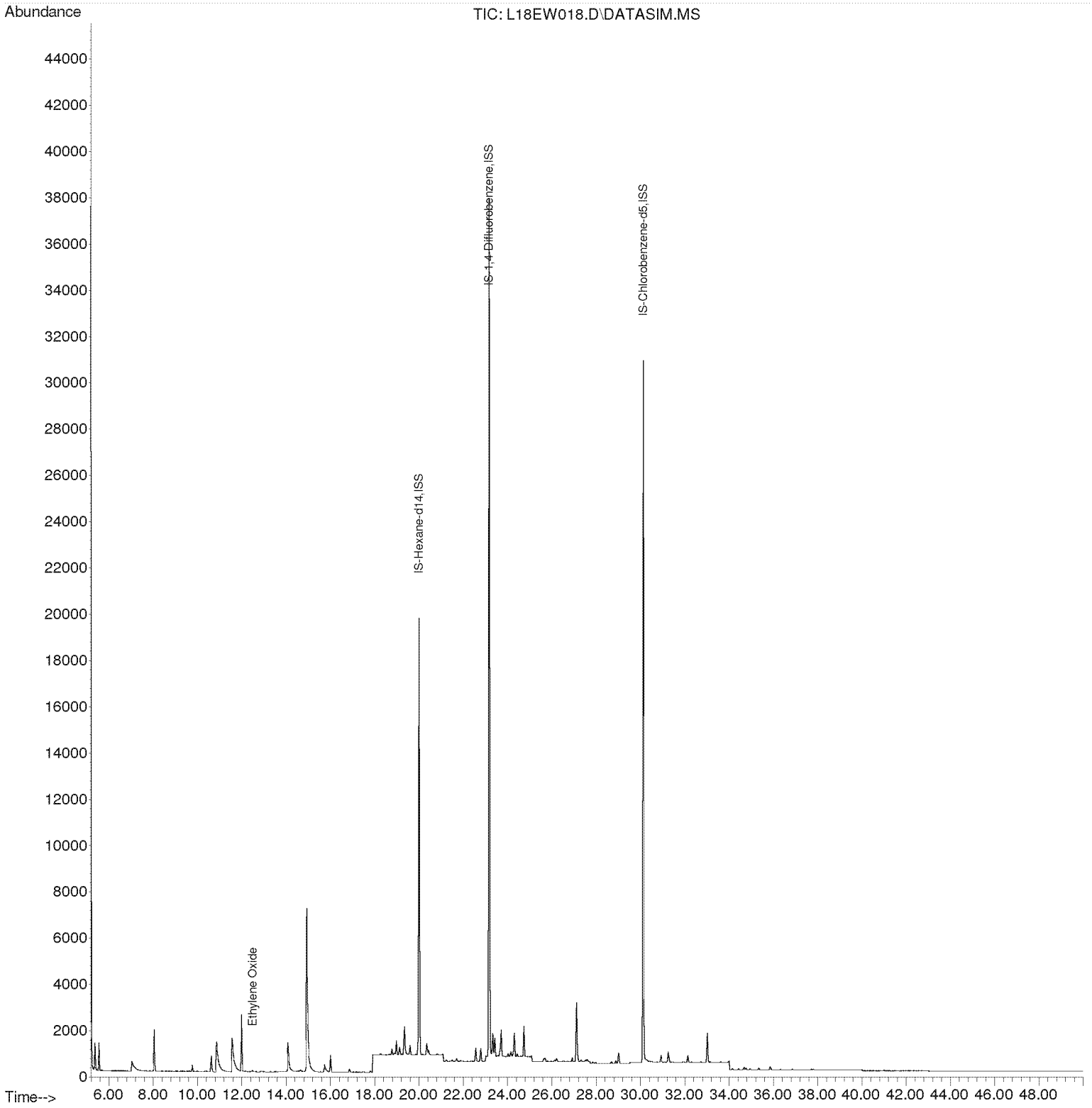
Target Compounds					Qvalue
2) Ethylene Oxide	12.491	29	131m	0.0857 ppbv	

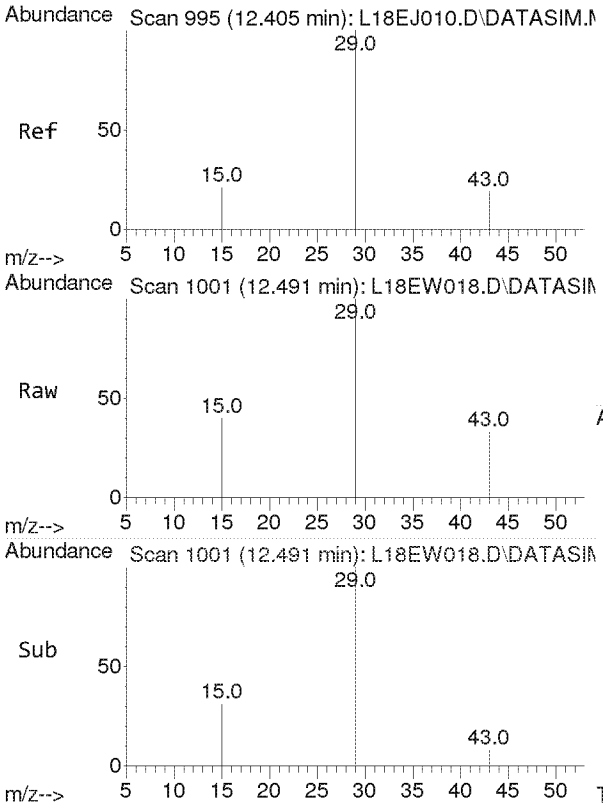
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW018.D
Acq On : 24 May 2018 7:00 am
Operator : MAH
Sample : B8E2305-DUP4
Misc : WBIL R2 5/17/18
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 24 10:01:35 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

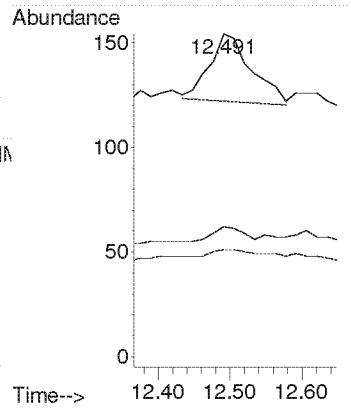




#2
Ethylene Oxide
Concen: 0.086 ppbv m
RT: 12.491 min Scan# 1001
Delta R.T. 0.014 min
Lab File: L18EW018.D
Acq: 24 May 2018 7:00 am

Tgt Ion: 29 Resp: 131

Ion	Ratio	Lower	Upper
29	100		
15	46.6	20.4	30.6#
43	27.5	16.2	24.4#



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW019.D
Acq On : 24 May 2018 8:02 am
Operator : MAH
Sample : 8052134-22
Misc : WBIL C1 5/17/18
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 24 10:01:39 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	30778	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	74668	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	46849	4.7000 ppbv	0.00

System Monitoring Compounds

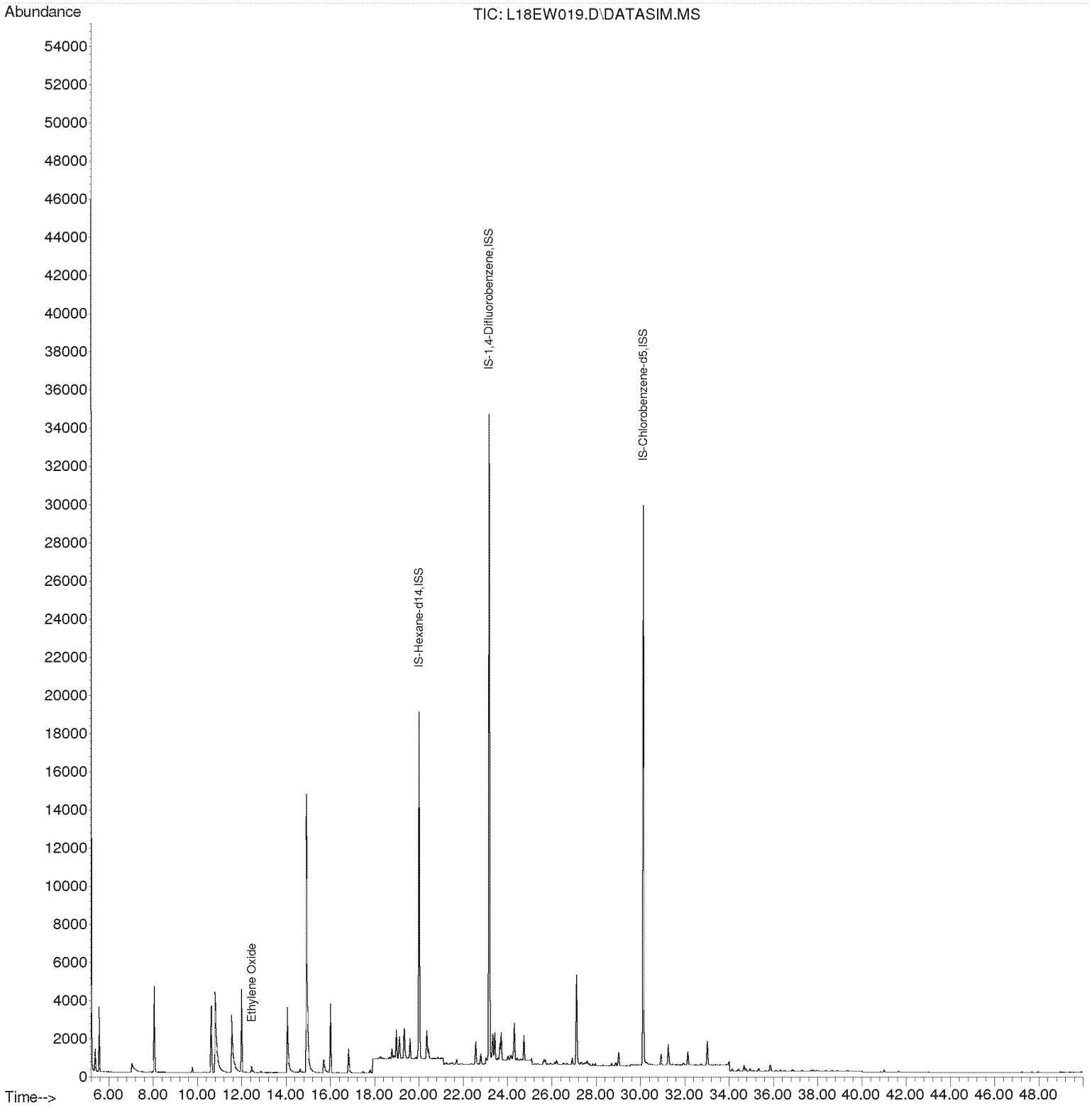
Target Compounds					Qvalue
2) Ethylene Oxide	12.448	29	816m	0.5574 ppbv	

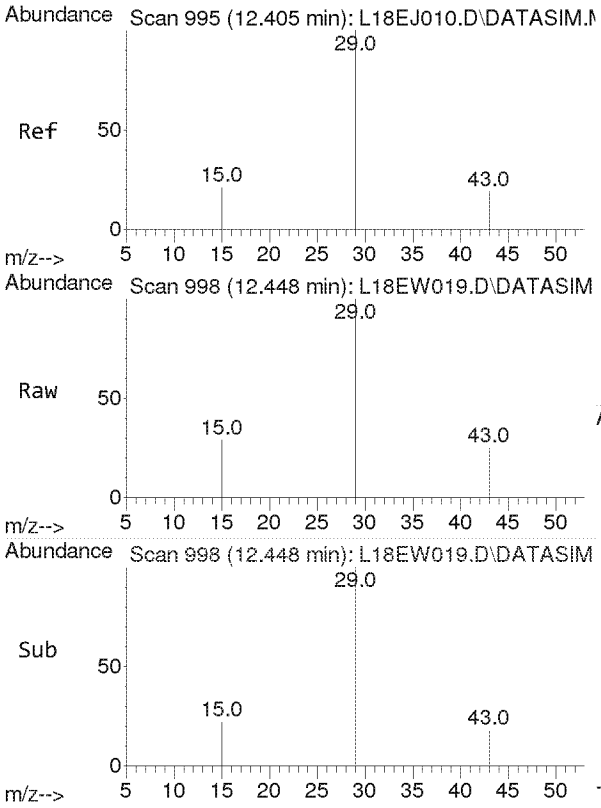
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW019.D
Acq On : 24 May 2018 8:02 am
Operator : MAH
Sample : 8052134-22
Misc : WBIL C1 5/17/18
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 24 10:01:39 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

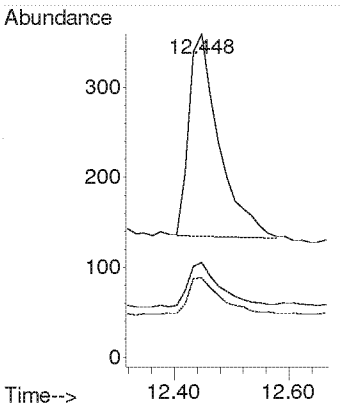




#2
Ethylene Oxide
Concen: 0.557 ppbv m
RT: 12.448 min Scan# 998
Delta R.T. -0.029 min
Lab File: L18EW019.D
Acq: 24 May 2018 8:02 am

Tgt Ion: 29 Resp: 816

Ion	Ratio	Lower	Upper
29	100		
15	25.4	20.4	30.6
43	22.1	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW020.D
Acq On : 24 May 2018 9:04 am
Operator : MAH
Sample : 8052134-23
Misc : WBIL C2 5/17/18
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 24 10:01:42 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	30955	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	75608	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	46666	4.7000 ppbv	0.00

System Monitoring Compounds

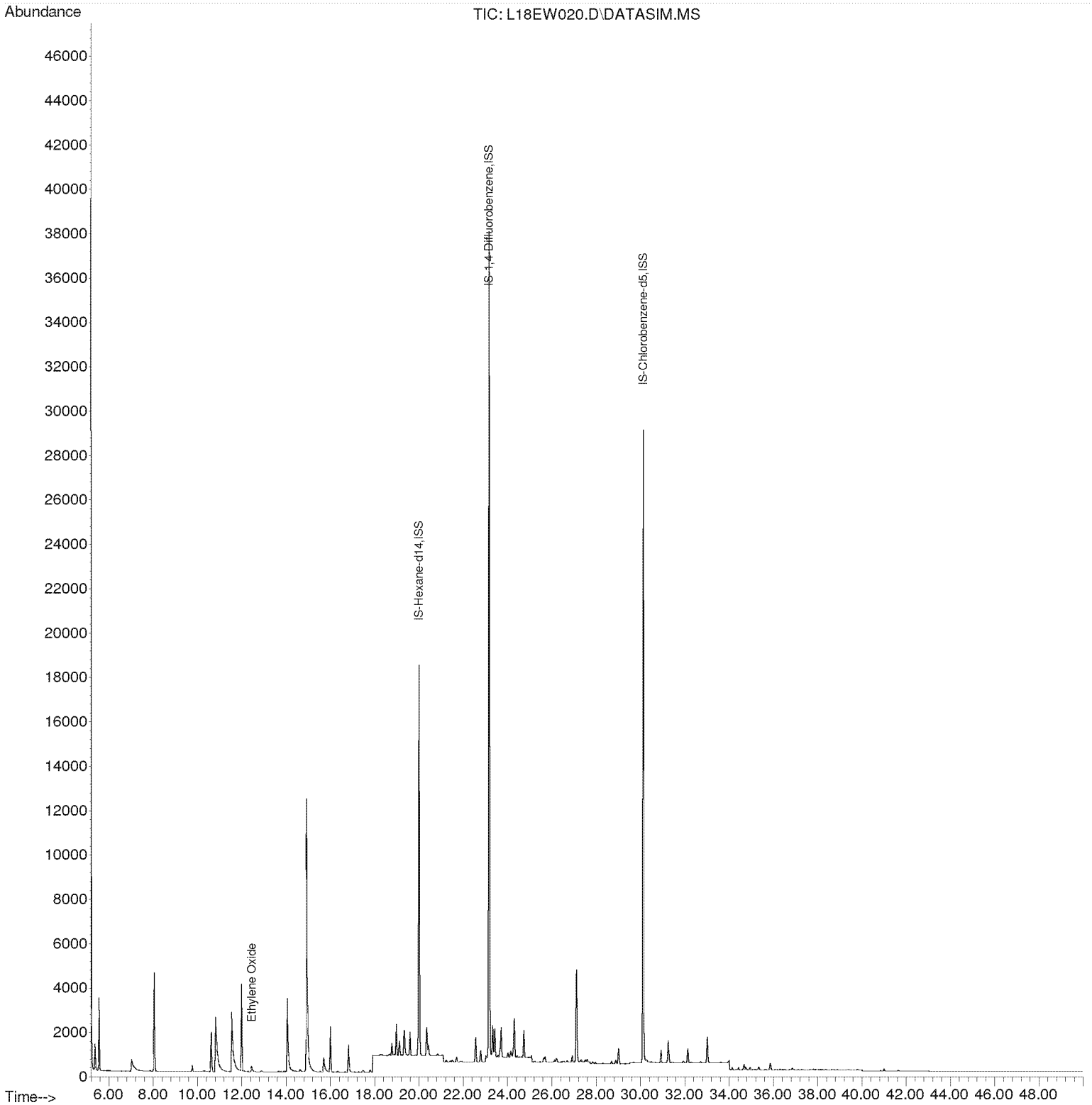
Target Compounds					Qvalue
2) Ethylene Oxide	12.448	29	642m	0.4360 ppbv	

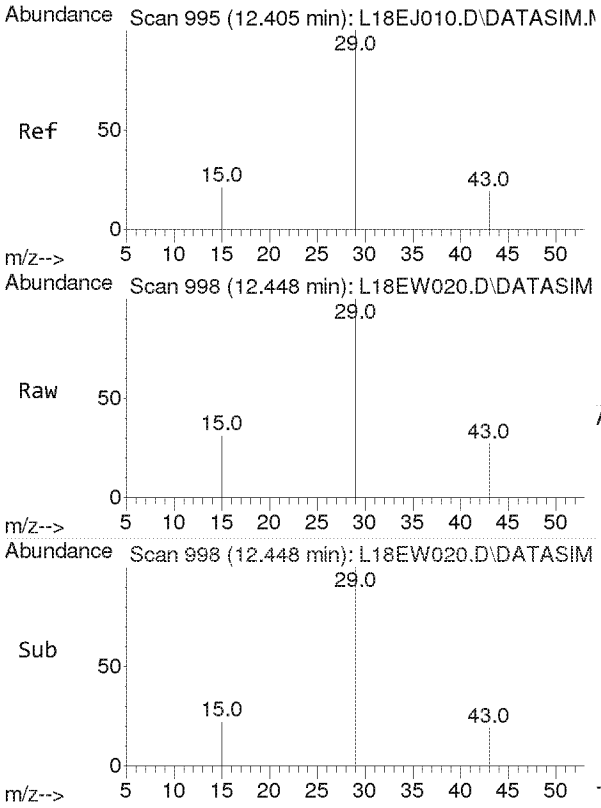
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW020.D
Acq On : 24 May 2018 9:04 am
Operator : MAH
Sample : 8052134-23
Misc : WBIL C2 5/17/18
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 24 10:01:42 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Thu May 24 09:59:54 2018
Response via : Initial Calibration

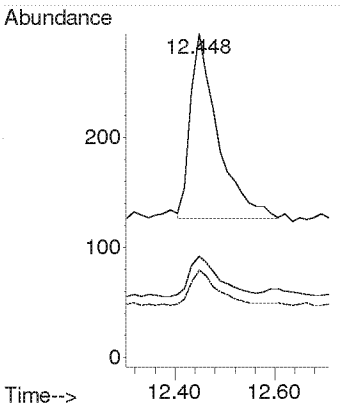




#2
Ethylene Oxide
Concen: 0.436 ppbv m
RT: 12.448 min Scan# 998
Delta R.T. -0.029 min
Lab File: L18EW020.D
Acq: 24 May 2018 9:04 am

Tgt Ion: 29 Resp: 642

Ion	Ratio	Lower	Upper
29	100		
15	23.5	20.4	30.6
43	19.9	16.2	24.4



Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW021.D
Acq On : 24 May 2018 10:06 am
Operator : MAH
Sample : B8E2305-DUP5
Misc : WBIL R1 5/17/18
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 24 12:04:03 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Mon May 21 13:28:21 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	31814	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	78811	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	48911	4.7000 ppbv	0.00

System Monitoring Compounds

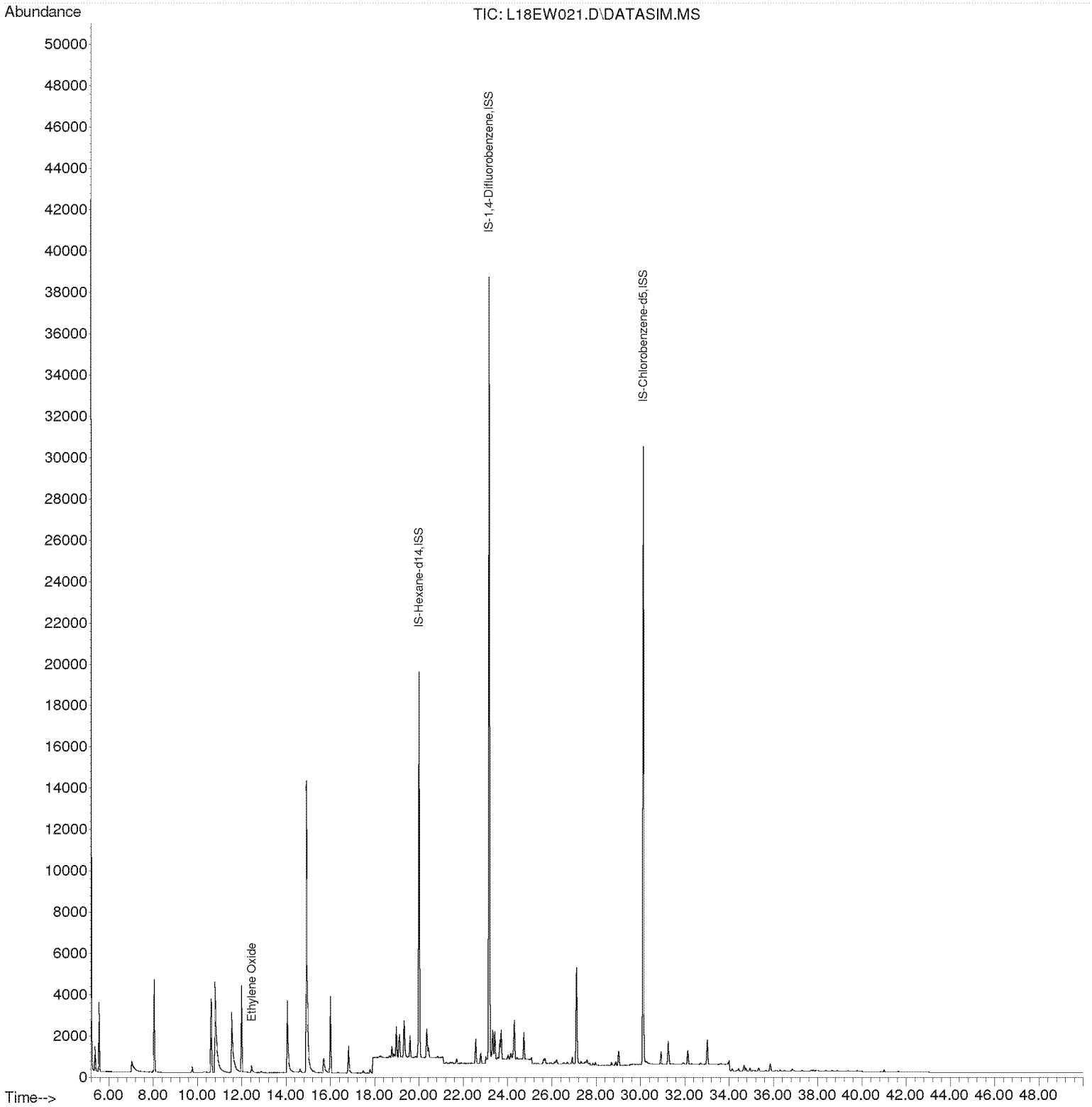
Target Compounds					Qvalue
2) Ethylene Oxide	12.448	29	830m	0.5485 ppbv	

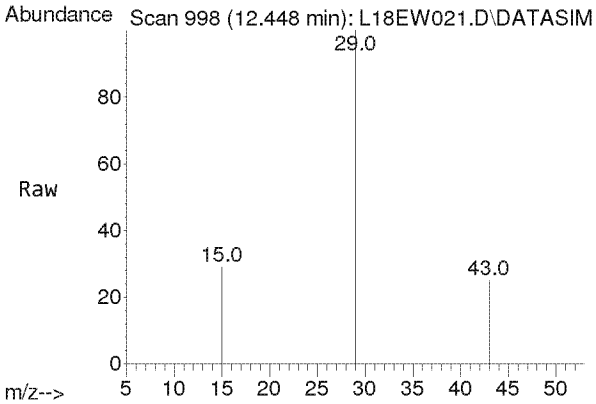
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW021.D
Acq On : 24 May 2018 10:06 am
Operator : MAH
Sample : B8E2305-DUP5
Misc : WBIL R1 5/17/18
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 24 12:04:03 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Mon May 21 13:28:21 2018
Response via : Initial Calibration

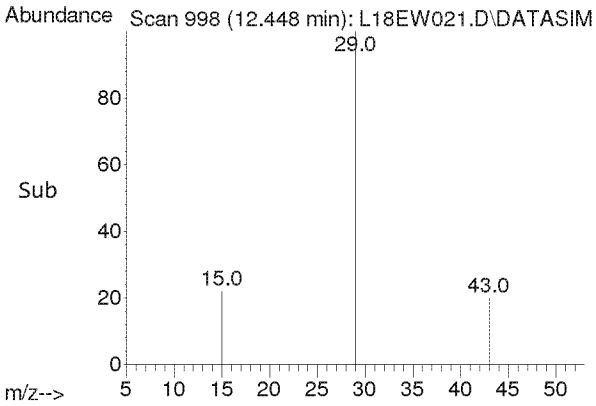


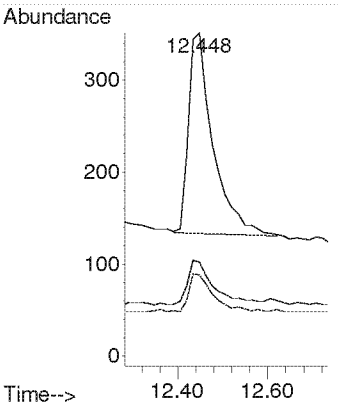


#2
Ethylene Oxide
Concen: 0.548 ppbv m
RT: 12.448 min Scan# 998
Delta R.T. -0.029 min
Lab File: L18EW021.D
Acq: 24 May 2018 10:06 am

Tgt Ion: 29 Resp: 830

Ion	Ratio	Lower	Upper
29	100		
15	27.7	20.4	30.6
43	18.9	16.2	24.4





Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW022.D
Acq On : 24 May 2018 11:09 am
Operator : MAH
Sample : B8E2305-DUP6
Misc : WBIL R2 5/17/18
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 24 12:04:37 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Mon May 21 13:28:21 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32021	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	79488	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	50144	4.7000 ppbv	0.00

System Monitoring Compounds

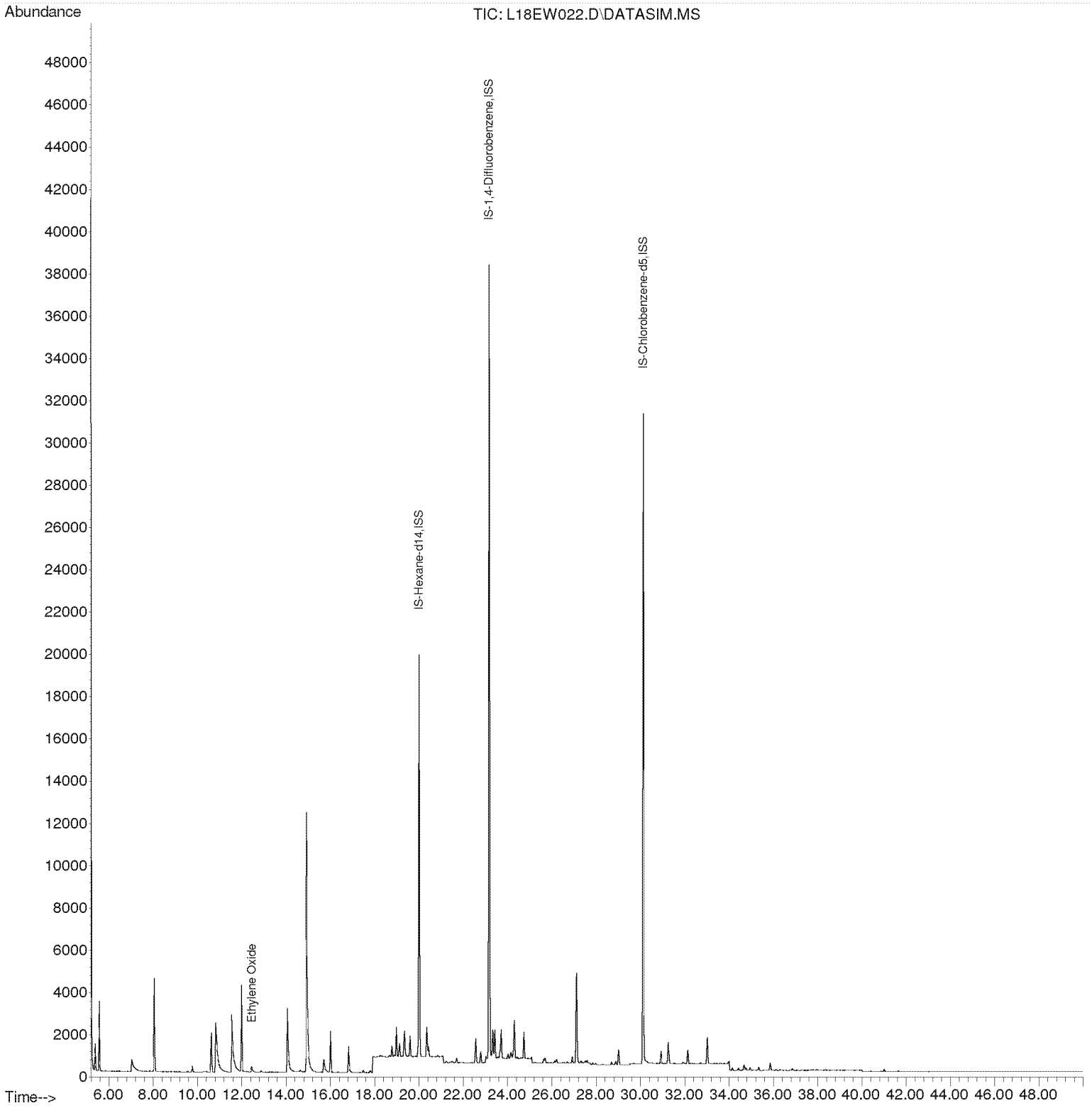
Target Compounds					Qvalue
2) Ethylene Oxide	12.448	29	604m	0.3965 ppbv	

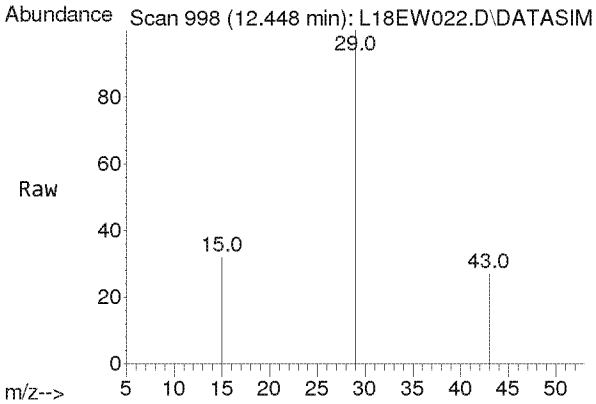
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW022.D
Acq On : 24 May 2018 11:09 am
Operator : MAH
Sample : B8E2305-DUP6
Misc : WBIL R2 5/17/18
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 24 12:04:37 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Mon May 21 13:28:21 2018
Response via : Initial Calibration

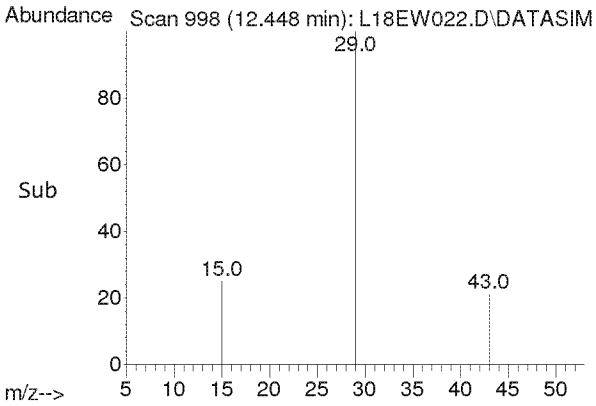


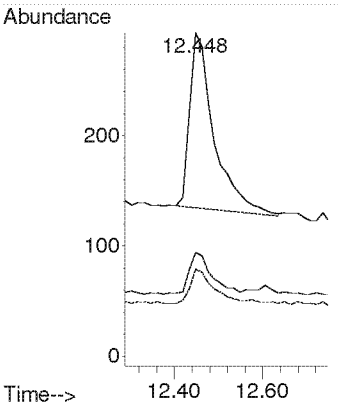


#2
Ethylene Oxide
Concen: 0.397 ppbv m
RT: 12.448 min Scan# 998
Delta R.T. -0.029 min
Lab File: L18EW022.D
Acq: 24 May 2018 11:09 am

Tgt Ion: 29 Resp: 604

Ion	Ratio	Lower	Upper
29	100		
15	26.7	20.4	30.6
43	21.9	16.2	24.4





Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW023.D
Acq On : 24 May 2018 12:11 pm
Operator : MAH
Sample : 8052134-24
Misc : WBIL 5/17/18
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 24 12:55:00 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Mon May 21 13:28:21 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) IS-Hexane-d14	20.008	66	32117	4.8000 ppbv	0.00
3) IS-1,4-Difluorobenzene	23.163	114	77111	4.9300 ppbv	0.00
4) IS-Chlorobenzene-d5	30.133	117	50299	4.7000 ppbv	0.00

System Monitoring Compounds

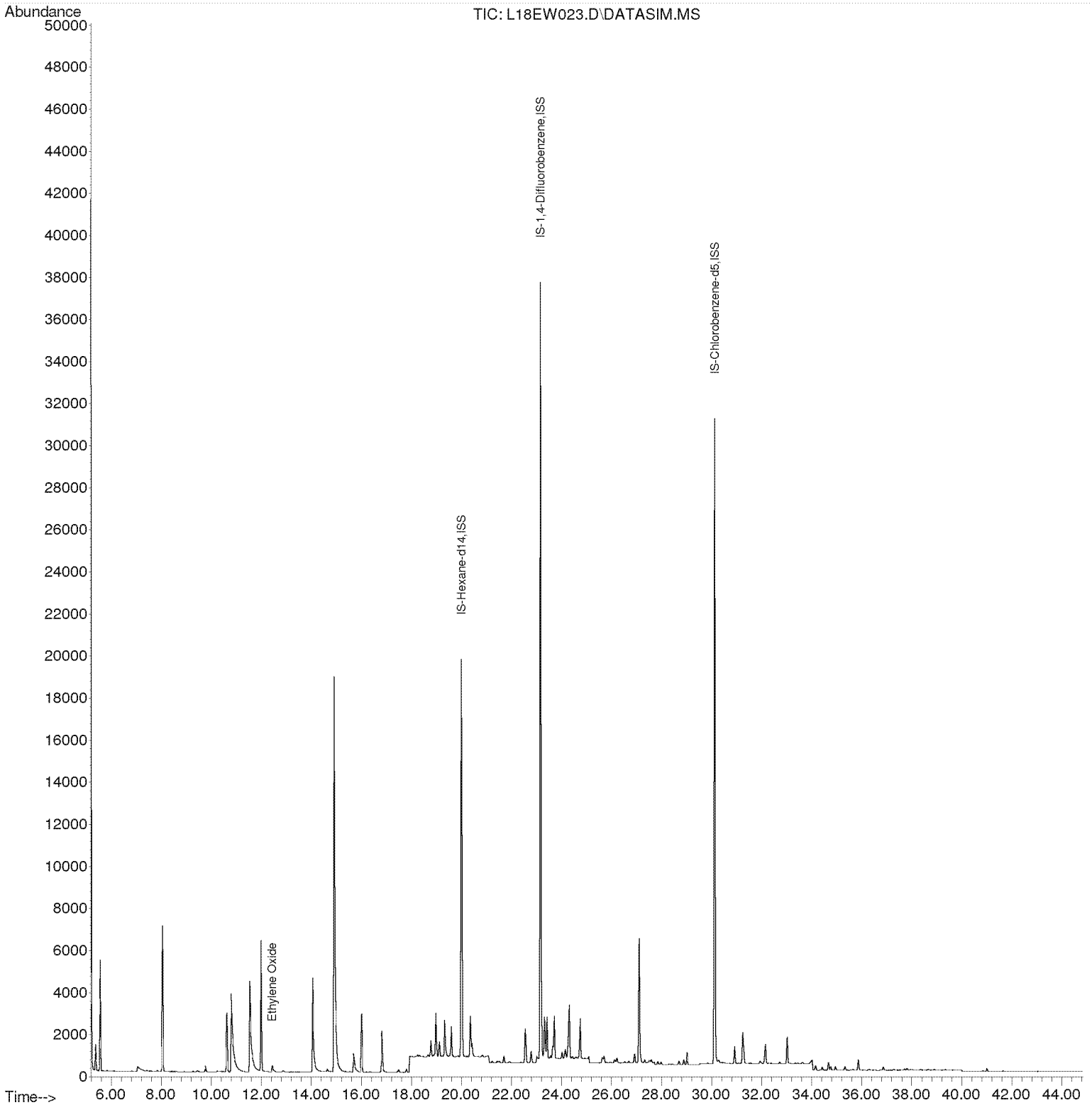
Target Compounds					Qvalue
2) Ethylene Oxide	12.448	29	732m	0.4791 ppbv	

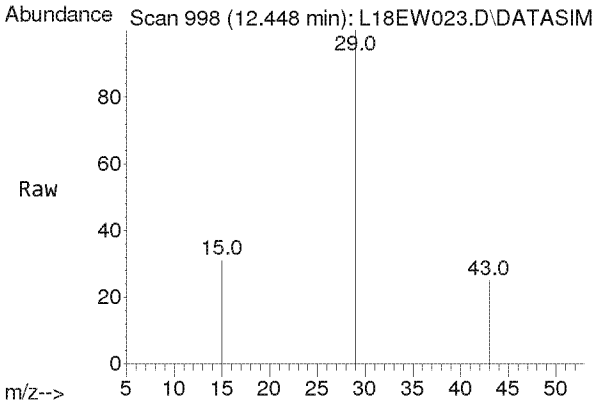
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Y:\MASS SPEC 1 DATA\L18EW\
Data File : L18EW023.D
Acq On : 24 May 2018 12:11 pm
Operator : MAH
Sample : 8052134-24
Misc : WBIL 5/17/18
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 24 12:55:00 2018
Quant Method : C:\msdchem\1\METHODS\8050004_ETOX.M
Quant Title : TO-15 by Selective Ion Analysis
QLast Update : Mon May 21 13:28:21 2018
Response via : Initial Calibration

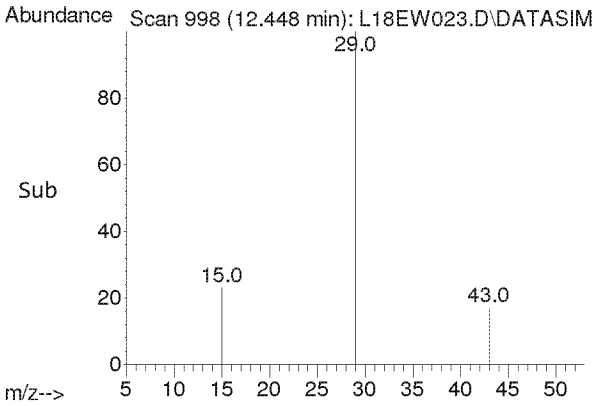


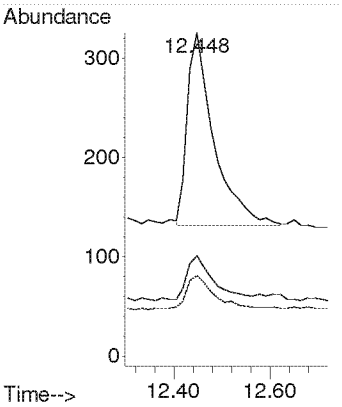


#2
Ethylene Oxide
Concen: 0.479 ppbv m
RT: 12.448 min Scan# 998
Delta R.T. -0.029 min
Lab File: L18EW023.D
Acq: 24 May 2018 12:11 pm

Tgt Ion: 29 Resp: 732

Ion	Ratio	Lower	Upper
29	100		
15	26.8	20.4	30.6
43	20.4	16.2	24.4





ERG Lab ID # 8052134.11

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 185327

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-407

Collection Date: _____ Date Can. Cleaned: 5/9/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): Y

TOXICS (Y/N): _____ Duplicate Can # : 5124

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/16/18

Field Setup

Received by: NWIA Date: 5/17/18

Operator: NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 @ 4:58PM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -28.7 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/18/18 @ 6:37AM Sample Duration (3 or 24 hr): _____

Operator: [illegible] Elapsed Time: 11 hrs 39 min

Field Final Can. Press.: -8.5 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/18/18

Lab Recovery

Received by: AJ Date: 05/21/2018

Lab Final Can. Press.: 8.00 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7487; LONG: -87.9426; DUPLICATE W/ 5124.
AMBIENT TEMP = 59 at start + Ambient temp = 54 @ end

White: Sample Traveler Canary: Lab Copy *Pink: Field Copy*

ERG Lab ID # 8052134 12

ERG
Eastern Research Group, Inc
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 5124
City/State: _____ Lab Initial Can. Press. ("Hg): 29.7
AQS Code: _____ Cleaning Batch # : H2467
Collection Date: _____ Date Can. Cleaned: 5/9/18
Options:
SNMOC (Y/N): _____ Duplicate Event (Y/N): Y
TOXICS (Y/N): _____ Duplicate Can # : 18827
METHANE (Y/N): _____
Relinquished by: RMB Date: 5/16/18

Field Setup

Received by: NWIA Date: 5/17/18
Operator: NWIA MFC Setting: _____
System #: _____ Elapsed Timer Reset (Y/N): _____
Setup Date: 5/17/18 @ 6:58pm Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: -29.5 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/18/18 @ 6:37AM Sample Duration (3 or 24 hr): _____
Operator: NWIA Elapsed Time: 11 HRS 39 MIN
Field Final Can. Press.: Ø psig psia "Hg (Circle one)
Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y
Relinquished by: NWIA Date: 5/18/18

Lab Recovery

Received by: AI Date: 05/21/2018
Lab Final Can. Press.: 0.5 psig "Hg (Circle one) Converted to psia: _____
Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7487; LONG: -87.9426; AMBIENT TEMP = 59° @ end
AMBIENT TEMP @ = 54 @ end; NOTE Ø Pressure @
field recovery.
DUPLICATE w/ 18827

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8052134-13

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 5101

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H1-467

Collection Date: _____ Date Can. Cleaned: 5/9/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): _____

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/16/18

Field Setup

Received by: NWIA Date: 5/17/18

Operator: NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 @ 4:43 PM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/18/18 @ 6:29 AM Sample Duration (3 or 24 hr): _____

Operator: NWIA Elapsed Time: 11 HRS 46 MIN

Field Final Can. Press.: -10 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/18/18

Lab Recovery

Received by: M Date: 05/21/2018

Lab Final Can. Press.: 9.50 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7519; LONG: -87.9327; AMBIENT TEMP = 59 @ START AND AMBIENT TEMP = 54 @ end.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8052134.14

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 19650

City/State: _____ Lab Initial Can. Press. ("Hg): 24.7

AQS Code: _____ Cleaning Batch # : H2-403

Collection Date: _____ Date Can. Cleaned: 5/3/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): _____

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/11/18

Field Setup

Received by: J. NWIA Date: 5/15/18

Operator: NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 @ 7:27AM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.5 **psig psia "Hg (Circle one)**

Field Recovery

Recovery Date: 5/17/18 @ 6:52PM Sample Duration (3 or 24 hr): _____

Operator: NWIA Elapsed Time: 11 HRS 25 MIN

Field Final Can. Press.: -10.5 **psig psia "Hg (Circle one)**

Status: **VALID** **VOID** (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/18/18

Lab Recovery

Received by: AT Date: 05/21/2018

Lab Final Can. Press.: 10.50 **psig "Hg (Circle one)** Converted to psia: _____

Status: **VALID** **VOID** (Circle one) Gauge: **1** **2** (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7487; LONG: -87.9426; AMBIENT TEMP @ START = 58°, AMBIENT TEMP @ END = 59°

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8052134.15

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 5053
City/State: _____ Lab Initial Can. Press. ("Hg): 29.7
AQS Code: _____ Cleaning Batch # : H1-407
Collection Date: _____ Date Can. Cleaned: 5/9/18
Options:
SNMOC (Y/N): _____ Duplicate Event (Y/N): N
TOXICS (Y/N): _____ Duplicate Can # : _____
METHANE (Y/N): _____
Relinquished by: RMB Date: 5/16/18

Field Setup

Received by: NWIA Date: 5/17/18
Operator: NWIA MFC Setting: _____
System #: _____ Elapsed Timer Reset (Y/N): _____
Setup Date: 5/17/18 Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: -29.3 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 @ 10:59AM Sample Duration (3 or 24 hr): GRAB
Operator: NWIA Elapsed Time: <1 MIN
Field Final Can. Press.: 4 psig psia "Hg (Circle one)
Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y
Relinquished by: NWIA Date: 5/17/18

Lab Recovery

Received by: [illegible] Date: 05/21/2018
Lab Final Can. Press.: 24 psig "Hg (Circle one) Converted to psia: _____
Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7450; LONG: -87.9403; AMBIENT TEMP=74°

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

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ERG Lab ID # 8052134 16

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 5072

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H1-407

Collection Date: _____ Date Can. Cleaned: 5/9/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): N

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/16/18

Field Setup

Received by: NWIA Date: 5/17/18

Operator: NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.3 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 @ 2:53pm Sample Duration (3 or 24 hr): GRAB

Operator: NWIA Elapsed Time: <1 min

Field Final Can. Press.: Ø psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/17/18

Lab Recovery

Received by: [illegible] Date: 05/21/2018

Lab Final Can. Press.: 2.5 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7488; LONG: -87.9429
AMBIENT TEMP = 74°

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8052134.17

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Eastern Research Group, Inc.
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AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 19651

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H1407

Collection Date: _____ Date Can. Cleaned: 5/9/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): _____

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: CMB Date: 5/16/18

Field Setup

Received by: NWIA Date: 5/17/18

Operator: NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.5 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 @ 2:59 pm Sample Duration (3 or 24 hr): GRIB

Operator: NWIA Elapsed Time: <1 min

Field Final Can. Press.: Ø psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/17/18

Lab Recovery

Received by: AT Date: 05/21/2018

Lab Final Can. Press.: 23 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7520; LONG: -87.9360; AMBIENT TEMP = 74

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8052134.18

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 188864

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-405

Collection Date: _____ Date Can. Cleaned: 5/7/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): _____

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/14/18

Field Setup

Received by: ~~5/14/18~~ J. NWIA Date: 5/14/18

Operator: Sieffert MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 7:16AM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.3 ~~9~~ psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 @ 4:23pm Sample Duration (3 or 24 hr): _____

Operator: NWIA Elapsed Time: 11 HRS 7 MIN

Field Final Can. Press.: -11 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: ~~5/9~~ 5/12/18

Lab Recovery

Received by: M Date: 05/21/2018

Lab Final Can. Press.: 11.00 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7483; LONG: -87.9459; AMB TEMP = 55°C @ start and AMB TEMP = 58°C @ end.

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8C52134 19

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: SATC34

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-407

Collection Date: _____ Date Can. Cleaned: 5/9/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): N

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/16/18

Field Setup

Received by: NWIA Date: 5/17/18

Operator: NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.3 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 @ 2:33 PM Sample Duration (3 or 24 hr): GRAB

Operator: NWIA Elapsed Time: <1 min

Field Final Can. Press.: Ø psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/17/18

Lab Recovery

Received by: M Date: 05/21/2018

Lab Final Can. Press.: 22 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7469, LONG: -87.9455; AMBIENT TEMP = 74 °F

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8052134 2C

ERG
Eastern Research Group, Inc.
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 18875
City/State: _____ Lab Initial Can. Press. ("Hg): 29.7
AQS Code: _____ Cleaning Batch # : H1-407
Collection Date: _____ Date Can. Cleaned: 5/9/18
Options:
SNMOC (Y/N): _____ Duplicate Event (Y/N): Y
TOXICS (Y/N): _____ Duplicate Can # : 19294
METHANE (Y/N): _____
Relinquished by: RMB Date: 5/16/18

Field Setup

Received by: NWIA Date: 5/17/18
Operator: NWIA MFC Setting: _____
System #: _____ Elapsed Timer Reset (Y/N): _____
Setup Date: 5/17/18 Canister Valve Opened (Y/N): Y
Field Initial Can. Press.: -29.4 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 @ 2:27pm Sample Duration (3 or 24 hr): GRAB
Operator: NWIA Elapsed Time: <1min
Field Final Can. Press.: Ø psig psia "Hg (Circle one)
Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y
Relinquished by: NWIA Date: 5/17/18

Lab Recovery

Received by: AI Date: 05/21/2018
Lab Final Can. Press.: 2.2 psig "Hg (Circle one) Converted to psia: _____
Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)
If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7508; LONG: -87.9456; AMBIENT TEMP = 74

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8052134.21

ERG
Eastern Research Group, Inc
601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 19294

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H1-407

Collection Date: _____ Date Can. Cleaned: 5/9/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): Y

TOXICS (Y/N): _____ Duplicate Can # : 18875

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/16/18

Field Setup

Received by: NWIA Date: 5/17/18

Operator: NWIA MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.5 **psig psia "Hg (Circle one)**

Field Recovery

Recovery Date: 5/17/18 @ 2:27 PM Sample Duration (3 or 24 hr): GRAB

Operator: Sieffert Elapsed Time: <1min

Field Final Can. Press.: 4 **psig psia "Hg (Circle one)**

Status: **VALID** **VOID** (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/17/18

Lab Recovery

Received by: [illegible] Date: 05/21/2018

Lab Final Can. Press.: 21 **psig "Hg (Circle one)** Converted to psia: _____

Status: **VALID** **VOID** (Circle one) Gauge: **1** **2** (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7508; LONG. -87.9456; AMBIENT TEMP = 74° (74°)

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Lab ID # 8052134122

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 5017

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H1-406

Collection Date: _____ Date Can. Cleaned: 5/8/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): Y

TOXICS (Y/N): _____ Duplicate Can # : 19290

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/14/18

Field Setup

Received by: J.NWIA Date: 5/16/18

Operator: _____ MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 @ 6:29 AM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18 5:53PM Sample Duration (3 or 24 hr): _____

Operator: Different Elapsed Time: 11 HRS 24 MIN

Field Final Can. Press.: -7.5 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/17/18

Lab Recovery

Received by: [illegible] Date: 05/21/2018

Lab Final Can. Press.: 8.00 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7474; LONG: -87.9385; AMBIENT TEMP = 53 @ Start & AMBIENT TEMP = 68° @ end

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Eastern Research Group, Inc.

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 8052134-23

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 19290

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-405

Collection Date: _____ Date Can. Cleaned: 5/7/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): ~~N~~ Y

TOXICS (Y/N): _____ Duplicate Can # : 5017

METHANE (Y/N): _____

Relinquished by: RMB Date: 5/14/18

Field Setup

Received by: J.NWIA Date: 5/16/18

Operator: _____ MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 @4:29AM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29.1 psig psia "Hg (Circle one)

Field Recovery

Recovery Date: 5/17/18@5:53pm Sample Duration (3 or 24 hr): _____

Operator: Suffert Elapsed Time: 11 HRS 24 MIN

Field Final Can. Press.: -9 psig psia "Hg (Circle one)

Status: VALID VOID (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/17/18

Lab Recovery

Received by: A Date: 05/21/2018

Lab Final Can. Press.: 9.00 psig "Hg (Circle one) Converted to psia: _____

Status: VALID VOID (Circle one) Gauge: 1 2 (Circle one)

If void, why: _____

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7474; LONG: -87.9385; AMBIENT TEMP = 53 @ START + AMBIENT TEMP = 68° @ end

White: Sample Traveler Canary: Lab Copy Pink: Field Copy

ERG Eastern Research Group, Inc.

601 Keystone Park Drive, Suite 700, Morrisville, NC 27560

ERG Lab ID # 8052134 24

AIR TOXICS SAMPLE CHAIN OF CUSTODY

Lab Pre-Sampling

Site Code: _____ Canister Number: 5166

City/State: _____ Lab Initial Can. Press. ("Hg): 29.7

AQS Code: _____ Cleaning Batch # : H2-405

Collection Date: _____ Date Can. Cleaned: 5/7/18

Options:

SNMOC (Y/N): _____ Duplicate Event (Y/N): _____

TOXICS (Y/N): _____ Duplicate Can # : _____

METHANE (Y/N): _____

Relinquished by: MB Date: 5/14/18

Field Setup

Received by: J. NWIA Date: 5/16/18

Operator: Suffert MFC Setting: _____

System #: _____ Elapsed Timer Reset (Y/N): _____

Setup Date: 5/17/18 @ 7:07AM Canister Valve Opened (Y/N): Y

Field Initial Can. Press.: -29 **psig psia "Hg (Circle one)**

Field Recovery

Recovery Date: 7/17/18 @ 6:30 PM Sample Duration (3 or 24 hr): _____

Operator: NWIA Elapsed Time: 11 HRS 23 MIN

Field Final Can. Press.: Ø **psig psia "Hg (Circle one)**

Status: **VALID** **VOID** (Circle one) Canister Valve Closed (Y/N): Y

Relinquished by: NWIA Date: 5/18/18

Lab Recovery

Received by: A Date: 05/21/2018

Lab Final Can. Press.: 1.2 **psig "Hg (Circle one)** Converted to psia: _____

Status: **VALID** **VOID** (Circle one) Gauge: **1** **2** (Circle one)

If void, why: VACUUM GAUGE

Samples stored in Air Tox Lab (Room 130)

5-2016

Comments: LAT: 41.7505 ; LONG: -87.9371 ; UPWIND RERUN OVERNIGHT ; FLOW REGULATOR LOOSE @ COLLECTION
AMB TEMP = 55 @ START
AMB TEMP = 59 @ END

White: Sample Traveler Canary: Lab Copy Pink: Field Copy