Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78956.D
Acq On : 9 May 2017 8:34 pm
Operator : XimenaC
Sample : IC3413-5
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 10 12:22:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.555	65	192807	500.00	ug/L	0.00
5) pentafluorobenzene	10.103	168	284472	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	416818	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	358969	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	185954	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.088	113	141523	50.21	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 100.42%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	151490	50.34	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 100.68%			
75) toluene-d8 (s)	12.709	98	468686	50.61	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 101.22%			
99) 4-bromofluorobenzene (s)	15.372	95	171300	49.80	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.60%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.697	59	12295	21.35	ug/L	97
3) Ethanol	6.108	45	22808	444.97	ug/L	95
4) 1,4-dioxane	11.755	88	4446	108.16	ug/L	90
6) chlorodifluoromethane	3.806	51	10851	3.86	ug/L	96
7) dichlorodifluoromethane	3.801	85	20662	4.28	ug/L	96
8) chloromethane	4.137	50	23804	4.21	ug/L	98
9) vinyl chloride	4.409	62	23545	4.19	ug/L	99
11) bromomethane	5.122	94	15679	4.29	ug/L	99
12) chloroethane	5.337	64	11260	4.29	ug/L	98
13) trichlorofluoromethane	5.883	101	23670	4.26	ug/L	95
14) vinyl bromide	5.725	106	14141	4.29	ug/L	99
15) ethyl ether	6.365	74	7779	4.19	ug/L	96
16) acrolein	6.580	56	3823	4.33	ug/L	83
17) freon 113	6.826	151	10326	4.27	ug/L	97
18) 1,1-dichloroethene	6.811	96	13141	4.45	ug/L	94
19) acetone	6.826	58	6329	17.57	ug/L #	85
20) acetonitrile	7.282	41	27336	43.64	ug/L	98
21) iodomethane	7.078	142	26304	4.27	ug/L	96
22) carbon disulfide	7.230	76	43581	4.25	ug/L	98
23) methylene chloride	7.587	84	15898	4.37	ug/L	93
24) methyl acetate	7.393	43	15294	4.71	ug/L	96
25) methyl tert butyl ether	8.037	73	44964	4.25	ug/L	99
26) trans-1,2-dichloroethene	8.053	96	14763	4.33	ug/L	90
27) di-isopropyl ether	8.756	45	51192	4.35	ug/L	98
28) 2-butanone	9.448	72	8247	17.25	ug/L	94
29) 1,1-dichloroethane	8.672	63	27761	4.38	ug/L	97
30) chloroprene	8.824	53	21215	4.41	ug/L	99
31) acrylonitrile	7.938	53	6317	4.19	ug/L	93
32) hexane	8.483	56	10380	4.33	ug/L	98
33) vinyl acetate	8.693	86	2683	4.47	ug/L	91
34) ethyl tert-butyl ether	9.264	59	48385	4.23	ug/L	98
35) ethyl acetate	9.516	45	2854	4.36	ug/L	74

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78956.D
Acq On : 9 May 2017 8:34 pm
Operator : XimenaC
Sample : IC3413-5
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 10 12:22:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,2-dichloropropane	9.516	77	20576	4.40 ug/L	98
37) cis-1,2-dichloroethene	9.485	96	16625	4.35 ug/L	99
38) methyl acrylate	9.584	85	2936	4.38 ug/L #	81
39) propionitrile	9.511	54	27444	42.80 ug/L	99
40) bromochloromethane	9.804	128	8274	4.24 ug/L	96
41) tetrahydrofuran	9.873	72	3856	4.21 ug/L	98
42) chloroform	9.883	85	17443	4.31 ug/L	100
43) t-butyl formate	9.967	59	13281	4.34 ug/L	99
45) methacrylonitrile	9.736	67	7767	4.38 ug/L	96
46) 1,1,1-trichloroethane	10.187	97	21521	4.36 ug/L	97
47) cyclohexane	10.297	84	19504	4.55 ug/L #	78
48) 1,1-dichloropropene	10.381	75	19971	4.35 ug/L	100
49) iso-butyl alcohol	10.371	43	10116	39.94 ug/L	96
50) carbon tetrachloride	10.418	117	19084	4.33 ug/L	96
51) tert amyl alcohol	10.512	55	4641	21.66 ug/L	90
54) n-butyl alcohol	11.152	56	29675	209.18 ug/L	98
55) 2,2,4-trimethylpentane	10.743	57	55737	4.39 ug/L	96
56) benzene	10.649	78	57576	4.39 ug/L	100
57) tert-amyl methyl ether	10.738	87	10714	4.34 ug/L	93
58) heptane	10.926	71	11332	4.33 ug/L	97
59) isopropyl acetate	10.612	87	3202	4.23 ug/L #	83
60) 1,2-dichloroethane	10.633	62	20121	4.30 ug/L	98
61) trichloroethene	11.393	130	14676	4.35 ug/L	97
62) ethyl acrylate	11.419	55	23554	4.33 ug/L	99
63) 2-nitropropane	12.127	41	4799	4.30 ug/L	90
64) 2-chloroethyl vinyl ether	12.190	63	51950	21.12 ug/L	98
65) methyl methacrylate	11.687	100	4483	4.49 ug/L #	74
66) 1,2-dichloropropane	11.639	63	15971	4.37 ug/L	98
67) dibromomethane	11.776	93	10808	4.38 ug/L	95
68) methylcyclohexane	11.660	83	23961	4.35 ug/L	97
69) bromodichloromethane	11.917	83	19728	4.26 ug/L	99
70) epichlorohydrin	12.279	57	9785	21.65 ug/L	97
71) cis-1,3-dichloropropene	12.394	75	24525	4.25 ug/L	100
72) 4-methyl-2-pentanone	12.515	58	29899	17.89 ug/L	96
73) 3-methyl-1-butanol	12.520	55	19343	84.08 ug/L	97
76) toluene	12.782	92	32428	4.33 ug/L	95
77) trans-1,3-dichloropropene	12.945	75	22312	4.40 ug/L	98
78) ethyl methacrylate	12.992	69	20003	4.25 ug/L	98
79) 1,1,2-trichloroethane	13.149	83	12147	4.30 ug/L	98
80) tetrachloroethene	13.370	164	11608	4.38 ug/L	96
81) 1,3-dichloropropane	13.338	76	22037	4.42 ug/L	99
82) 2-hexanone	13.359	58	29025	18.02 ug/L	98
83) butyl acetate	13.459	56	11935	4.50 ug/L	98
84) 3,3-dimethyl-1-butanol	13.522	57	19374	41.51 ug/L	97
85) dibromochloromethane	13.590	129	16315	4.26 ug/L	97
86) 1,2-dibromoethane	13.742	107	15831	4.35 ug/L	99
87) n-butyl ether	14.214	57	57643	4.37 ug/L	95
88) chlorobenzene	14.230	112	37409	4.34 ug/L	99
89) 1,1,1,2-tetrachloroethane	14.287	131	13919	4.26 ug/L	98
90) ethylbenzene	14.308	91	61359	4.38 ug/L	99

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78956.D
Acq On : 9 May 2017 8:34 pm
Operator : XimenaC
Sample : IC3413-5
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 10 12:22:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) m,p-xylene	14.423	106	46932	8.71 ug/L	98
92) o-xylene	14.838	106	23484	4.33 ug/L	97
93) styrene	14.838	104	39863	4.29 ug/L	97
94) bromoform	15.068	173	12080	4.14 ug/L	95
95) butyl acrylate	14.675	55	31899	4.23 ug/L	99
96) isopropylbenzene	15.199	105	60699	4.35 ug/L	100
97) cis-1,4-dichloro-2-butene	15.226	88	5650	4.32 ug/L	93
100) bromobenzene	15.572	156	17324	4.31 ug/L	97
101) 1,1,2,2-tetrachloroethane	15.451	83	22432	4.25 ug/L	99
102) trans-1,4-dichloro-2-b...	15.509	53	4488	4.07 ug/L	93
103) 1,2,3-trichloropropane	15.530	110	4844	4.35 ug/L	97
104) n-propylbenzene	15.619	91	74043	4.39 ug/L	99
105) 2-chlorotoluene	15.750	126	15256	4.34 ug/L	99
106) 4-chlorotoluene	15.850	91	44513	4.36 ug/L	99
107) 1,3,5-trimethylbenzene	15.776	105	50740	4.33 ug/L	99
108) tert-butylbenzene	16.138	134	9006	4.33 ug/L	93
109) 1,2,4-trimethylbenzene	16.180	105	51616	4.31 ug/L	99
110) sec-butylbenzene	16.363	105	67138	4.41 ug/L	98
111) 1,3-dichlorobenzene	16.521	146	31212	4.32 ug/L	99
112) p-isopropyltoluene	16.489	119	55757	4.33 ug/L	98
113) 1,4-dichlorobenzene	16.605	146	31012	4.28 ug/L	98
114) benzyl chloride	16.720	91	36497	4.25 ug/L	99
115) 1,2-dichlorobenzene	17.008	146	30582	4.29 ug/L	98
116) n-butylbenzene	16.919	92	28523	4.25 ug/L	96
117) 1,2-dibromo-3-chloropr...	17.805	75	3624	4.02 ug/L	94
118) 1,3,5-trichlorobenzene	18.052	180	24867	4.14 ug/L	97
120) 1,2,4-trichlorobenzene	18.718	180	17994	3.85 ug/L	98
121) hexachlorobutadiene	18.880	225	11464	4.22 ug/L	96
122) naphthalene	19.011	128	40029	3.68 ug/L	99
123) 1,2,3-trichlorobenzene	19.268	180	15791	3.89 ug/L	99
124) hexachloroethane	17.312	201	9922	4.11 ug/L	96

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

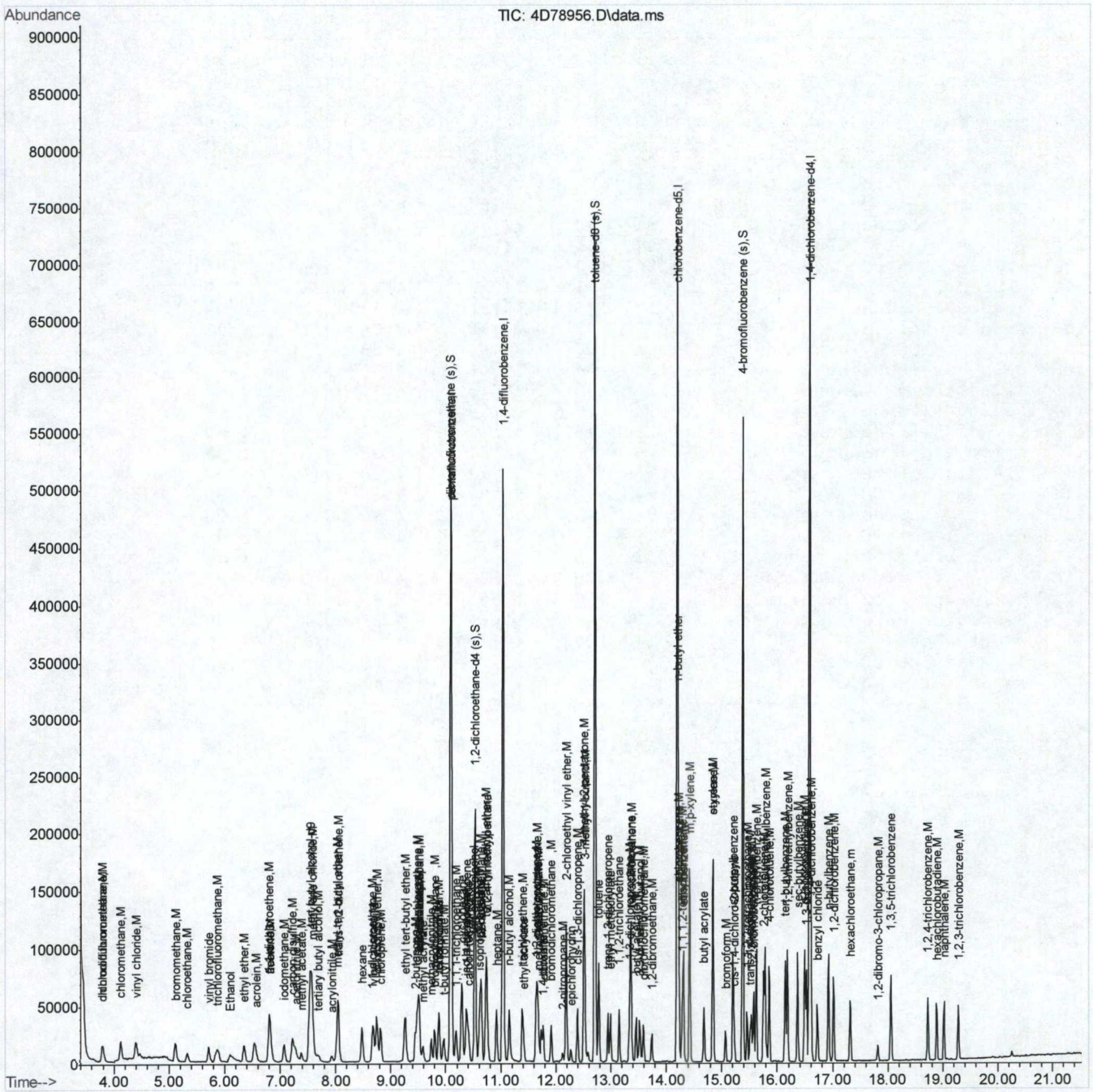
7.7.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78956.D
Acq On : 9 May 2017 8:34 pm
Operator : XimenaC
Sample : IC3413-5
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 10 12:22:07 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78957.D
Acq On : 9 May 2017 9:02 pm
Operator : XimenaC
Sample : IC3413-10
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 11:07:42 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.550	65	177183	500.00	ug/L	0.00
5) pentafluorobenzene	10.103	168	250176	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	364136	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	311600	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	162958	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	123872	49.97	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.94%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	132908	50.55	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 101.10%			
75) toluene-d8 (s)	12.709	98	408376	50.81	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 101.62%			
99) 4-bromofluorobenzene (s)	15.372	95	148240	49.18	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.36%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.691	59	27675	52.31	ug/L	98
3) Ethanol	6.113	45	51077	1084.36	ug/L	97
4) 1,4-dioxane	11.755	88	10670	282.46	ug/L	94
6) chlorodifluoromethane	3.806	51	26937	10.90	ug/L	99
7) dichlorodifluoromethane	3.796	85	44176	10.41	ug/L	99
8) chloromethane	4.131	50	49745	10.01	ug/L	99
9) vinyl chloride	4.409	62	50346	10.19	ug/L	99
11) bromomethane	5.128	94	32924	10.24	ug/L	97
12) chloroethane	5.337	64	24369	10.55	ug/L	99
13) trichlorofluoromethane	5.883	101	51450	10.54	ug/L	97
14) vinyl bromide	5.725	106	30007	10.36	ug/L	97
15) ethyl ether	6.360	74	17295	10.60	ug/L	98
16) acrolein	6.569	56	8085	10.41	ug/L	88
17) freon 113	6.832	151	23776	11.18	ug/L	97
18) 1,1-dichloroethene	6.805	96	27993	10.78	ug/L	98
19) acetone	6.816	58	13785	43.52	ug/L	93
20) acetonitrile	7.277	41	57867	105.05	ug/L	100
21) iodomethane	7.078	142	57893	10.70	ug/L	99
22) carbon disulfide	7.230	76	97270	10.78	ug/L	99
23) methylene chloride	7.587	84	33902	10.60	ug/L	98
24) methyl acetate	7.387	43	32268	11.30	ug/L	97
25) methyl tert butyl ether	8.037	73	99972	10.74	ug/L	98
26) trans-1,2-dichloroethene	8.053	96	32186	10.75	ug/L	94
27) di-isopropyl ether	8.750	45	112288	10.85	ug/L	98
28) 2-butanone	9.443	72	18513	44.04	ug/L	98
29) 1,1-dichloroethane	8.672	63	60577	10.87	ug/L	99
30) chloroprene	8.819	53	46712	11.03	ug/L	97
31) acrylonitrile	7.927	53	14355	10.83	ug/L	96
32) hexane	8.483	56	23289	11.03	ug/L	96
33) vinyl acetate	8.688	86	6173	11.69	ug/L	97
34) ethyl tert-butyl ether	9.264	59	108703	10.80	ug/L	99
35) ethyl acetate	9.511	45	6511	11.30	ug/L	88

7.7.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78957.D
Acq On : 9 May 2017 9:02 pm
Operator : XimenaC
Sample : IC3413-10
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 11:07:42 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,2-dichloropropane	9.516	77	45502	11.07 ug/L	100
37) cis-1,2-dichloroethene	9.479	96	36290	10.80 ug/L	98
38) methyl acrylate	9.584	85	6563	11.13 ug/L	91
39) propionitrile	9.505	54	61948	109.85 ug/L	99
40) bromochloromethane	9.799	128	18610	10.84 ug/L	99
41) tetrahydrofuran	9.872	72	7106	8.83 ug/L	94
42) chloroform	9.883	85	38406	10.80 ug/L	99
43) t-butyl formate	9.967	59	29084	10.81 ug/L	97
45) methacrylonitrile	9.736	67	17147	11.00 ug/L	96
46) 1,1,1-trichloroethane	10.187	97	47493	10.94 ug/L	100
47) cyclohexane	10.297	84	42427	11.26 ug/L #	77
48) 1,1-dichloropropene	10.381	75	44616	11.05 ug/L	96
49) iso-butyl alcohol	10.365	43	22462	100.85 ug/L	98
50) carbon tetrachloride	10.418	117	42864	11.05 ug/L	99
51) tert amyl alcohol	10.517	55	9942	52.77 ug/L	94
54) n-butyl alcohol	11.152	56	67441	544.16 ug/L	100
55) 2,2,4-trimethylpentane	10.743	57	122510	11.06 ug/L	98
56) benzene	10.648	78	126042	10.99 ug/L	99
57) tert-amyl methyl ether	10.738	87	23478	10.89 ug/L	98
58) heptane	10.926	71	25715	11.26 ug/L	97
59) isopropyl acetate	10.606	87	7487	11.31 ug/L #	83
60) 1,2-dichloroethane	10.627	62	44825	10.97 ug/L	99
61) trichloroethene	11.393	130	32436	11.00 ug/L	99
62) ethyl acrylate	11.414	55	52544	11.06 ug/L	99
63) 2-nitropropane	12.127	41	10198	10.45 ug/L	94
64) 2-chloroethyl vinyl ether	12.190	63	115821	51.96 ug/L	99
65) methyl methacrylate	11.687	100	9358	10.72 ug/L #	79
66) 1,2-dichloropropane	11.645	63	35185	11.02 ug/L	98
67) dibromomethane	11.776	93	23702	11.00 ug/L	95
68) methylcyclohexane	11.666	83	53896	11.19 ug/L	99
69) bromodichloromethane	11.917	83	44046	10.90 ug/L	97
70) epichlorohydrin	12.274	57	21367	54.13 ug/L	99
71) cis-1,3-dichloropropene	12.394	75	55290	10.98 ug/L	97
72) 4-methyl-2-pentanone	12.515	58	63716	43.65 ug/L	100
73) 3-methyl-1-butanol	12.520	55	42870	213.30 ug/L	98
76) toluene	12.782	92	71188	10.95 ug/L	97
77) trans-1,3-dichloropropene	12.945	75	48427	10.99 ug/L	99
78) ethyl methacrylate	12.992	69	45472	11.14 ug/L	100
79) 1,1,2-trichloroethane	13.149	83	27255	11.12 ug/L	98
80) tetrachloroethene	13.370	164	25538	11.11 ug/L	98
81) 1,3-dichloropropane	13.333	76	47839	11.05 ug/L	97
82) 2-hexanone	13.359	58	61744	44.16 ug/L	98
83) butyl acetate	13.453	56	25059	10.88 ug/L	99
84) 3,3-dimethyl-1-butanol	13.522	57	43328	106.95 ug/L	98
85) dibromochloromethane	13.590	129	36137	10.87 ug/L	99
86) 1,2-dibromoethane	13.737	107	34593	10.96 ug/L	98
87) n-butyl ether	14.214	57	125793	10.99 ug/L	100
88) chlorobenzene	14.229	112	82060	10.97 ug/L	100
89) 1,1,1,2-tetrachloroethane	14.287	131	31113	10.96 ug/L	97
90) ethylbenzene	14.308	91	134771	11.08 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78957.D
Acq On : 9 May 2017 9:02 pm
Operator : XimenaC
Sample : IC3413-10
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 11:07:42 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) m,p-xylene	14.418	106	104349	22.32 ug/L	99
92) o-xylene	14.838	106	52236	11.10 ug/L	97
93) styrene	14.838	104	88909	11.01 ug/L	100
94) bromoform	15.063	173	26903	10.61 ug/L	99
95) butyl acrylate	14.675	55	71825	10.96 ug/L	99
96) isopropylbenzene	15.199	105	134994	11.13 ug/L	99
97) cis-1,4-dichloro-2-butene	15.220	88	11737	10.33 ug/L	94
100) bromobenzene	15.572	156	38228	10.84 ug/L	94
101) 1,1,2,2-tetrachloroethane	15.451	83	49289	10.65 ug/L	99
102) trans-1,4-dichloro-2-b...	15.503	53	10072	10.43 ug/L	93
103) 1,2,3-trichloropropane	15.530	110	10732	10.99 ug/L	96
104) n-propylbenzene	15.619	91	163175	11.04 ug/L	99
105) 2-chlorotoluene	15.745	126	33521	10.89 ug/L	90
106) 4-chlorotoluene	15.850	91	97706	10.93 ug/L	100
107) 1,3,5-trimethylbenzene	15.776	105	112531	10.95 ug/L	99
108) tert-butylbenzene	16.138	134	20148	11.06 ug/L	98
109) 1,2,4-trimethylbenzene	16.180	105	115777	11.04 ug/L	99
110) sec-butylbenzene	16.363	105	148519	11.12 ug/L	99
111) 1,3-dichlorobenzene	16.521	146	69233	10.94 ug/L	99
112) p-isopropyltoluene	16.489	119	123910	10.99 ug/L	99
113) 1,4-dichlorobenzene	16.605	146	68697	10.81 ug/L	99
114) benzyl chloride	16.715	91	82409	10.95 ug/L	100
115) 1,2-dichlorobenzene	17.008	146	67846	10.86 ug/L	100
116) n-butylbenzene	16.919	92	65687	11.18 ug/L	97
117) 1,2-dibromo-3-chloropr...	17.805	75	8453	10.70 ug/L	96
118) 1,3,5-trichlorobenzene	18.052	180	58016	11.03 ug/L	100
119) 2-ethylhexyl acrylate	18.749	70	697	0.37 ug/L #	67
120) 1,2,4-trichlorobenzene	18.717	180	46008	10.00 ug/L	99
121) hexachlorobutadiene	18.880	225	26394	11.10 ug/L	96
122) naphthalene	19.011	128	107520	11.27 ug/L	99
123) 1,2,3-trichlorobenzene	19.268	180	41243	10.23 ug/L	98
124) hexachloroethane	17.312	201	22455	10.61 ug/L	97
125) 2-methylnaphthalene	20.243	142	11095	3.64 ug/L	99

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

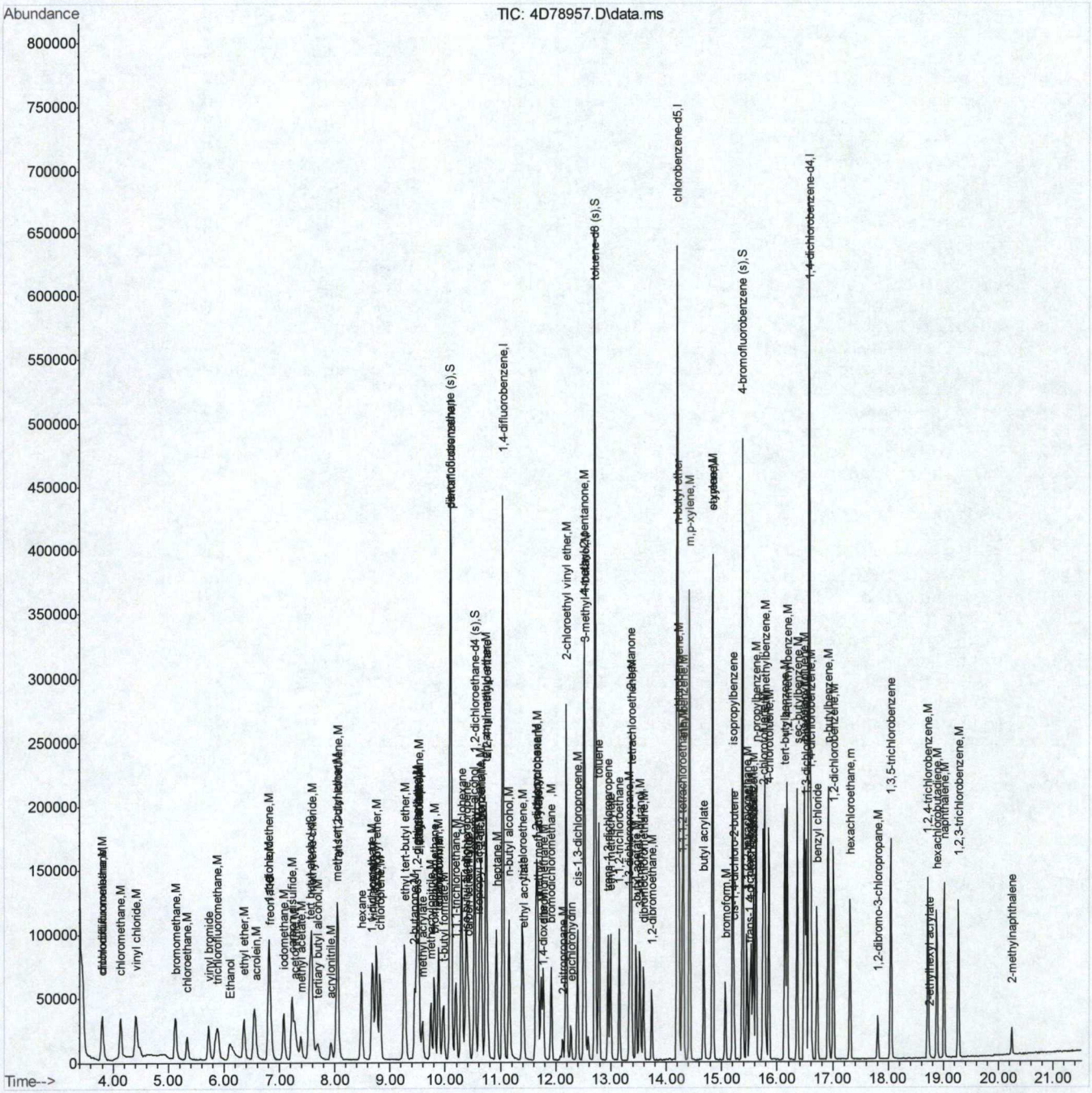
7.7.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78957.D
Acq On : 9 May 2017 9:02 pm
Operator : XimenaC
Sample : IC3413-10
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 10 11:07:42 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration



SGS ACCUTEST JC43354

7.7.6 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78958.D
Acq On : 9 May 2017 9:30 pm
Operator : XimenaC
Sample : IC3413-20
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 10 11:08:09 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.555	65	189105	500.00	ug/L	0.00
5) pentafluorobenzene	10.103	168	270447	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	396919	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	340925	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	179684	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	133521	49.83	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.66%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	142979	49.89	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 99.78%			
75) toluene-d8 (s)	12.709	98	440532	50.09	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.18%			
99) 4-bromofluorobenzene (s)	15.372	95	163049	49.05	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.10%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.691	59	57039	101.01	ug/L	98
3) Ethanol	6.113	45	103464	2058.05	ug/L	97
4) 1,4-dioxane	11.755	88	22138	549.09	ug/L	98
6) chlorodifluoromethane	3.811	51	55532	20.78	ug/L	96
7) dichlorodifluoromethane	3.806	85	94817	20.66	ug/L	100
8) chloromethane	4.147	50	110519	20.56	ug/L	99
9) vinyl chloride	4.420	62	111581	20.89	ug/L	100
11) bromomethane	5.127	94	72246	20.78	ug/L	100
12) chloroethane	5.337	64	52189	20.89	ug/L	96
13) trichlorofluoromethane	5.882	101	110750	20.99	ug/L	96
14) vinyl bromide	5.730	106	65559	20.93	ug/L	98
15) ethyl ether	6.360	74	36551	20.73	ug/L	98
16) acrolein	6.575	56	17324	20.63	ug/L	97
17) freon 113	6.826	151	50598	22.01	ug/L	99
18) 1,1-dichloroethene	6.811	96	58464	20.83	ug/L	97
19) acetone	6.816	58	29580	86.38	ug/L	93
20) acetonitrile	7.272	41	118181	198.47	ug/L	98
21) iodomethane	7.078	142	122648	20.97	ug/L	99
22) carbon disulfide	7.230	76	204944	21.01	ug/L	99
23) methylene chloride	7.586	84	70933	20.52	ug/L	100
24) methyl acetate	7.387	43	64172	20.79	ug/L	99
25) methyl tert butyl ether	8.043	73	209995	20.88	ug/L	99
26) trans-1,2-dichloroethene	8.053	96	66139	20.43	ug/L	94
27) di-isopropyl ether	8.756	45	232067	20.74	ug/L	100
28) 2-butanone	9.448	72	38813	85.41	ug/L	97
29) 1,1-dichloroethane	8.672	63	125575	20.83	ug/L	100
30) chloroprene	8.819	53	97013	21.20	ug/L	98
31) acrylonitrile	7.927	53	29925	20.89	ug/L	100
32) hexane	8.483	56	48219	21.13	ug/L	99
33) vinyl acetate	8.693	86	12902	22.59	ug/L	97
34) ethyl tert-butyl ether	9.264	59	229757	21.12	ug/L	99
35) ethyl acetate	9.516	45	12710	20.40	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78958.D
Acq On : 9 May 2017 9:30 pm
Operator : XimenaC
Sample : IC3413-20
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 10 11:08:09 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,2-dichloropropane	9.516	77	93186	20.97 ug/L	97
37) cis-1,2-dichloroethene	9.484	96	74237	20.43 ug/L	99
38) methyl acrylate	9.584	85	13859	21.74 ug/L	91
39) propionitrile	9.511	54	128408	210.64 ug/L	99
40) bromochloromethane	9.799	128	38618	20.81 ug/L	98
41) tetrahydrofuran	9.872	72	13251	15.22 ug/L	93
42) chloroform	9.883	85	78347	20.38 ug/L	100
43) t-butyl formate	9.967	59	61806	21.26 ug/L	99
45) methacrylonitrile	9.736	67	35141	20.86 ug/L	99
46) 1,1,1-trichloroethane	10.192	97	98499	20.98 ug/L	98
47) cyclohexane	10.302	84	88933	21.83 ug/L	97
48) 1,1-dichloropropene	10.381	75	93061	21.32 ug/L	99
49) iso-butyl alcohol	10.365	43	46359	192.55 ug/L	98
50) carbon tetrachloride	10.418	117	89272	21.30 ug/L	100
51) tert amyl alcohol	10.512	55	19425	95.37 ug/L	97
54) n-butyl alcohol	11.152	56	137073	1014.65 ug/L	100
55) 2,2,4-trimethylpentane	10.743	57	255477	21.15 ug/L	97
56) benzene	10.648	78	260008	20.80 ug/L	100
57) tert-amyl methyl ether	10.743	87	48850	20.79 ug/L	96
58) heptane	10.926	71	52062	20.91 ug/L	98
59) isopropyl acetate	10.612	87	15460	21.43 ug/L	96
60) 1,2-dichloroethane	10.627	62	92535	20.77 ug/L	99
61) trichloroethene	11.393	130	66964	20.83 ug/L	100
62) ethyl acrylate	11.414	55	107964	20.84 ug/L	99
63) 2-nitropropane	12.127	41	19809	18.63 ug/L	99
64) 2-chloroethyl vinyl ether	12.190	63	241682	98.56 ug/L	99
65) methyl methacrylate	11.687	100	19968	20.98 ug/L #	77
66) 1,2-dichloropropane	11.639	63	71426	20.52 ug/L	99
67) dibromomethane	11.776	93	48444	20.63 ug/L	96
68) methylcyclohexane	11.666	83	110945	21.13 ug/L	98
69) bromodichloromethane	11.917	83	90938	20.64 ug/L	99
70) epichlorohydrin	12.274	57	42767	99.39 ug/L	99
71) cis-1,3-dichloropropene	12.394	75	114599	20.88 ug/L	98
72) 4-methyl-2-pentanone	12.515	58	132902	83.53 ug/L	99
73) 3-methyl-1-butanol	12.520	55	89215	407.23 ug/L	96
76) toluene	12.782	92	148546	20.89 ug/L	100
77) trans-1,3-dichloropropene	12.945	75	102535	21.27 ug/L	99
78) ethyl methacrylate	12.992	69	94734	21.21 ug/L	99
79) 1,1,2-trichloroethane	13.155	83	56864	21.20 ug/L	98
80) tetrachloroethene	13.370	164	52205	20.75 ug/L	99
81) 1,3-dichloropropane	13.333	76	99686	21.04 ug/L	98
82) 2-hexanone	13.359	58	128468	83.97 ug/L	99
83) butyl acetate	13.453	56	51865	20.58 ug/L	98
84) 3,3-dimethyl-1-butanol	13.522	57	90611	204.43 ug/L	99
85) dibromochloromethane	13.590	129	75997	20.90 ug/L	98
86) 1,2-dibromoethane	13.737	107	72044	20.86 ug/L	99
87) n-butyl ether	14.214	57	261946	20.92 ug/L	100
88) chlorobenzene	14.229	112	170233	20.80 ug/L	99
89) 1,1,1,2-tetrachloroethane	14.287	131	65344	21.04 ug/L	99
90) ethylbenzene	14.308	91	279427	20.99 ug/L	99

7.7.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78958.D
Acq On : 9 May 2017 9:30 pm
Operator : XimenaC
Sample : IC3413-20
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 10 11:08:09 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) m,p-xylene	14.418	106	215115	42.05 ug/L	99
92) o-xylene	14.838	106	107472	20.88 ug/L	100
93) styrene	14.838	104	185640	21.02 ug/L	99
94) bromoform	15.063	173	58394	21.05 ug/L	98
95) butyl acrylate	14.675	55	153146	21.36 ug/L	99
96) isopropylbenzene	15.199	105	279998	21.11 ug/L	100
97) cis-1,4-dichloro-2-butene	15.220	88	26643	21.43 ug/L	98
100) bromobenzene	15.572	156	79528	20.46 ug/L	97
101) 1,1,2,2-tetrachloroethane	15.451	83	102898	20.17 ug/L	100
102) trans-1,4-dichloro-2-b...	15.503	53	22353	21.00 ug/L	96
103) 1,2,3-trichloropropane	15.530	110	22291	20.69 ug/L	98
104) n-propylbenzene	15.619	91	338105	20.75 ug/L	100
105) 2-chlorotoluene	15.745	126	69256	20.40 ug/L	93
106) 4-chlorotoluene	15.850	91	200925	20.38 ug/L	99
107) 1,3,5-trimethylbenzene	15.776	105	235485	20.79 ug/L	99
108) tert-butylbenzene	16.138	134	41967	20.90 ug/L	94
109) 1,2,4-trimethylbenzene	16.180	105	240227	20.78 ug/L	100
110) sec-butylbenzene	16.363	105	306745	20.83 ug/L	100
111) 1,3-dichlorobenzene	16.521	146	144539	20.71 ug/L	99
112) p-isopropyltoluene	16.489	119	262200	21.08 ug/L	100
113) 1,4-dichlorobenzene	16.604	146	143850	20.54 ug/L	100
114) benzyl chloride	16.715	91	170257	20.51 ug/L	100
115) 1,2-dichlorobenzene	17.008	146	143270	20.80 ug/L	100
116) n-butylbenzene	16.919	92	137752	21.25 ug/L	100
117) 1,2-dibromo-3-chloropr...	17.805	75	18307	21.01 ug/L	96
118) 1,3,5-trichlorobenzene	18.052	180	125504	21.63 ug/L	98
119) 2-ethylhexyl acrylate	18.744	70	4411	2.13 ug/L	98
120) 1,2,4-trichlorobenzene	18.717	180	105034	20.01 ug/L	98
121) hexachlorobutadiene	18.880	225	57490	21.92 ug/L	98
122) naphthalene	19.011	128	245908	23.38 ug/L	100
123) 1,2,3-trichlorobenzene	19.268	180	91444	19.88 ug/L	98
124) hexachloroethane	17.312	201	48426	20.74 ug/L	99
125) 2-methylnaphthalene	20.243	142	34567	10.29 ug/L	100

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

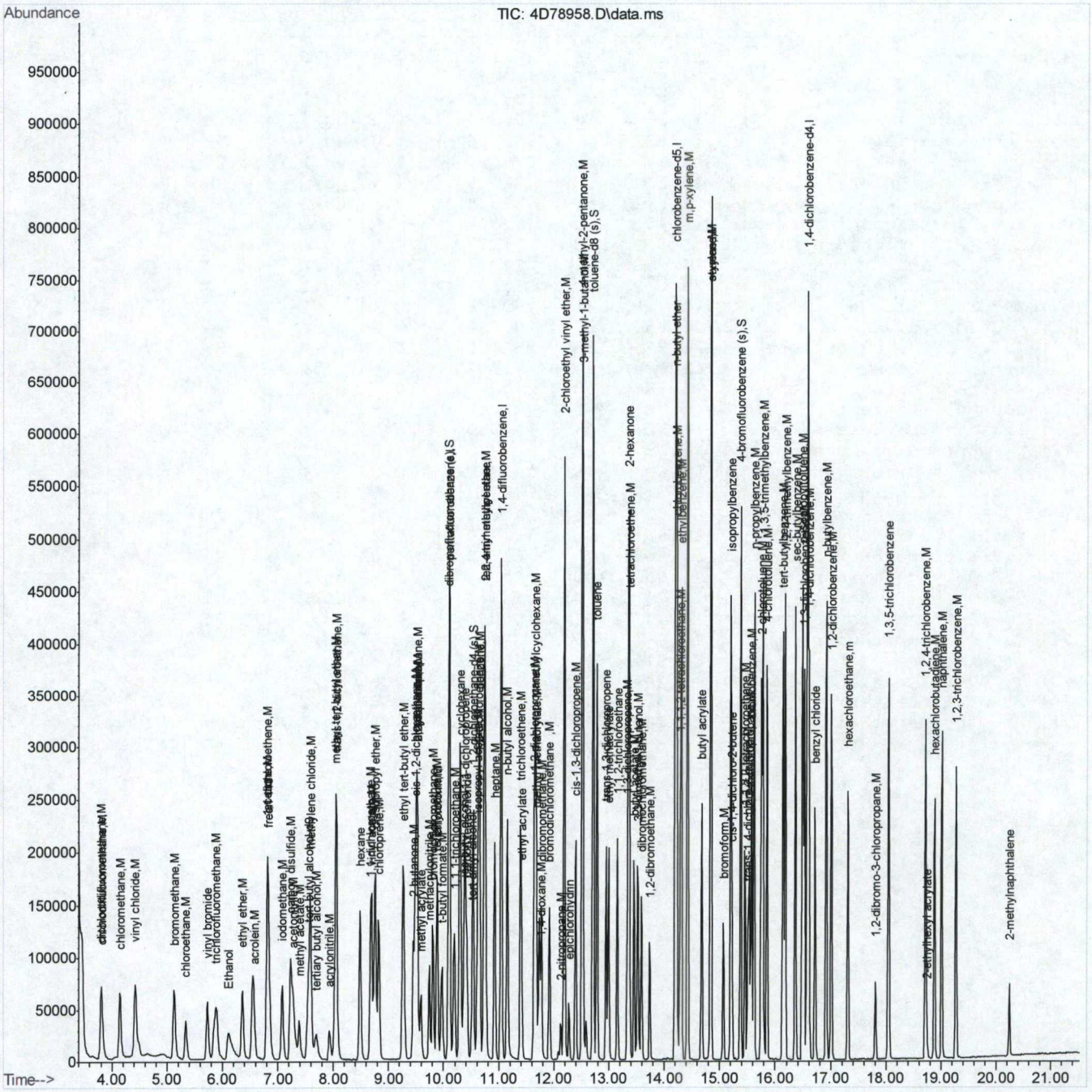
7.7.7

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78958.D
Acq On : 9 May 2017 9:30 pm
Operator : XimenaC
Sample : IC3413-20
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 10 11:08:09 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78959.D
Acq On : 9 May 2017 9:57 pm
Operator : XimenaC
Sample : ICC3413-50
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 10 11:05:47 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.555	65	178101	500.00	ug/L	0.00
5) pentafluorobenzene	10.103	168	258527	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	374219	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	322729	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	164895	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	128954	50.34	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 100.68%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	135958	50.32	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 100.64%			
75) toluene-d8 (s)	12.709	98	411817	49.47	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 98.94%			
99) 4-bromofluorobenzene (s)	15.372	95	152137	49.88	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.76%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.686	59	147261	276.89	ug/L	100
3) Ethanol	6.103	45	262577	5545.75	ug/L	100
4) 1,4-dioxane	11.755	88	53503	1409.03	ug/L	100
6) chlorodifluoromethane	3.806	51	147558	57.77	ug/L	100
7) dichlorodifluoromethane	3.796	85	230875	52.64	ug/L	100
8) chloromethane	4.147	50	274858	53.50	ug/L	100
9) vinyl chloride	4.425	62	272545	53.38	ug/L	100
11) bromomethane	5.122	94	177225	53.34	ug/L	100
12) chloroethane	5.332	64	126376	52.93	ug/L	100
13) trichlorofluoromethane	5.882	101	266550	52.84	ug/L	100
14) vinyl bromide	5.725	106	158596	52.97	ug/L	100
15) ethyl ether	6.360	74	95712	56.77	ug/L	100
16) acrolein	6.564	56	43616	54.34	ug/L	100
17) freon 113	6.831	151	129568	58.96	ug/L	100
18) 1,1-dichloroethene	6.800	96	152951	57.00	ug/L	100
19) acetone	6.816	58	73783	225.40	ug/L	100
20) acetonitrile	7.267	41	295413	518.98	ug/L	100
21) iodomethane	7.073	142	318174	56.90	ug/L	100
22) carbon disulfide	7.225	76	533104	57.16	ug/L	100
23) methylene chloride	7.581	84	184745	55.91	ug/L	100
24) methyl acetate	7.382	43	160462	54.38	ug/L	100
25) methyl tert butyl ether	8.043	73	539054	56.06	ug/L	100
26) trans-1,2-dichloroethene	8.048	96	170205	54.99	ug/L	100
27) di-isopropyl ether	8.750	45	592802	55.42	ug/L	100
28) 2-butanone	9.442	72	96449	222.03	ug/L	100
29) 1,1-dichloroethane	8.672	63	326636	56.69	ug/L	100
30) chloroprene	8.819	53	249498	57.02	ug/L	100
31) acrylonitrile	7.927	53	78488	57.32	ug/L	100
32) hexane	8.483	56	123971	56.84	ug/L	100
33) vinyl acetate	8.693	86	33708	61.75	ug/L	100
34) ethyl tert-butyl ether	9.264	59	580848	55.86	ug/L	100
35) ethyl acetate	9.511	45	31034	52.12	ug/L	100

7.7.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D78959.D
Acq On : 9 May 2017 9:57 pm
Operator : XimenaC
Sample : ICC3413-50
Misc : MS15522,V4D3413,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 10 11:05:47 2017
Quant Method : C:\MSDCHEM\1\METHODS\M4D3413.M
Quant Title : SW846 8260C, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Wed May 10 11:05:27 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,2-dichloropropane	9.516	77	232827	54.81 ug/L	100
37) cis-1,2-dichloroethene	9.479	96	190672	54.90 ug/L	100
38) methyl acrylate	9.579	85	34115	55.99 ug/L	100
39) propionitrile	9.505	54	317935	545.58 ug/L	100
40) bromochloromethane	9.799	128	99920	56.32 ug/L	100
41) tetrahydrofuran	9.872	72	30965	37.21 ug/L	100
42) chloroform	9.878	85	196760	53.54 ug/L	100
43) t-butyl formate	9.961	59	156485	56.31 ug/L	100
45) methacrylonitrile	9.736	67	90047	55.92 ug/L	100
46) 1,1,1-trichloroethane	10.187	97	251547	56.05 ug/L	100
47) cyclohexane	10.302	84	216794	55.68 ug/L	100
48) 1,1-dichloropropene	10.381	75	233466	55.94 ug/L	100
49) iso-butyl alcohol	10.360	43	111824	485.87 ug/L	100
50) carbon tetrachloride	10.418	117	228380	56.99 ug/L	100
51) tert amyl alcohol	10.512	55	48042	246.75 ug/L	100
54) n-butyl alcohol	11.152	56	341334	2679.91 ug/L	100
55) 2,2,4-trimethylpentane	10.748	57	635333	55.79 ug/L	100
56) benzene	10.648	78	651903	55.32 ug/L	100
57) tert-amyl methyl ether	10.743	87	120935	54.60 ug/L	100
58) heptane	10.926	71	131024	55.81 ug/L	100
59) isopropyl acetate	10.612	87	39766	58.47 ug/L	100
60) 1,2-dichloroethane	10.627	62	232429	55.35 ug/L	100
61) trichloroethene	11.393	130	171863	56.71 ug/L	100
62) ethyl acrylate	11.414	55	266470	54.56 ug/L	100
63) 2-nitropropane	12.127	41	51009	50.88 ug/L	100
64) 2-chloroethyl vinyl ether	12.190	63	604600	262.25 ug/L	100
65) methyl methacrylate	11.681	100	50741	56.56 ug/L	100
66) 1,2-dichloropropane	11.639	63	181516	55.30 ug/L	100
67) dibromomethane	11.770	93	121443	54.85 ug/L	100
68) methylcyclohexane	11.660	83	284496	57.47 ug/L	100
69) bromodichloromethane	11.917	83	231387	55.69 ug/L	100
70) epichlorohydrin	12.274	57	103904	256.12 ug/L	100
71) cis-1,3-dichloropropene	12.394	75	287795	55.61 ug/L	100
72) 4-methyl-2-pentanone	12.515	58	318303	212.18 ug/L	100
73) 3-methyl-1-butanol	12.515	55	216566	1048.49 ug/L	100
76) toluene	12.782	92	369315	54.87 ug/L	100
77) trans-1,3-dichloropropene	12.945	75	255595	56.02 ug/L	100
78) ethyl methacrylate	12.992	69	235321	55.66 ug/L	100
79) 1,1,2-trichloroethane	13.149	83	140478	55.32 ug/L	100
80) tetrachloroethene	13.369	164	132730	55.73 ug/L	100
81) 1,3-dichloropropane	13.333	76	245823	54.81 ug/L	100
82) 2-hexanone	13.354	58	311003	214.75 ug/L	100
83) butyl acetate	13.453	56	127211	53.33 ug/L	100
84) 3,3-dimethyl-1-butanol	13.522	57	221217	527.23 ug/L	100
85) dibromochloromethane	13.590	129	192495	55.92 ug/L	100
86) 1,2-dibromoethane	13.736	107	179487	54.89 ug/L	100
87) n-butyl ether	14.214	57	654680	55.23 ug/L	100
88) chlorobenzene	14.229	112	426704	55.06 ug/L	100
89) 1,1,1,2-tetrachloroethane	14.287	131	164868	56.08 ug/L	100
90) ethylbenzene	14.308	91	695211	55.18 ug/L	100

7.7.8

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