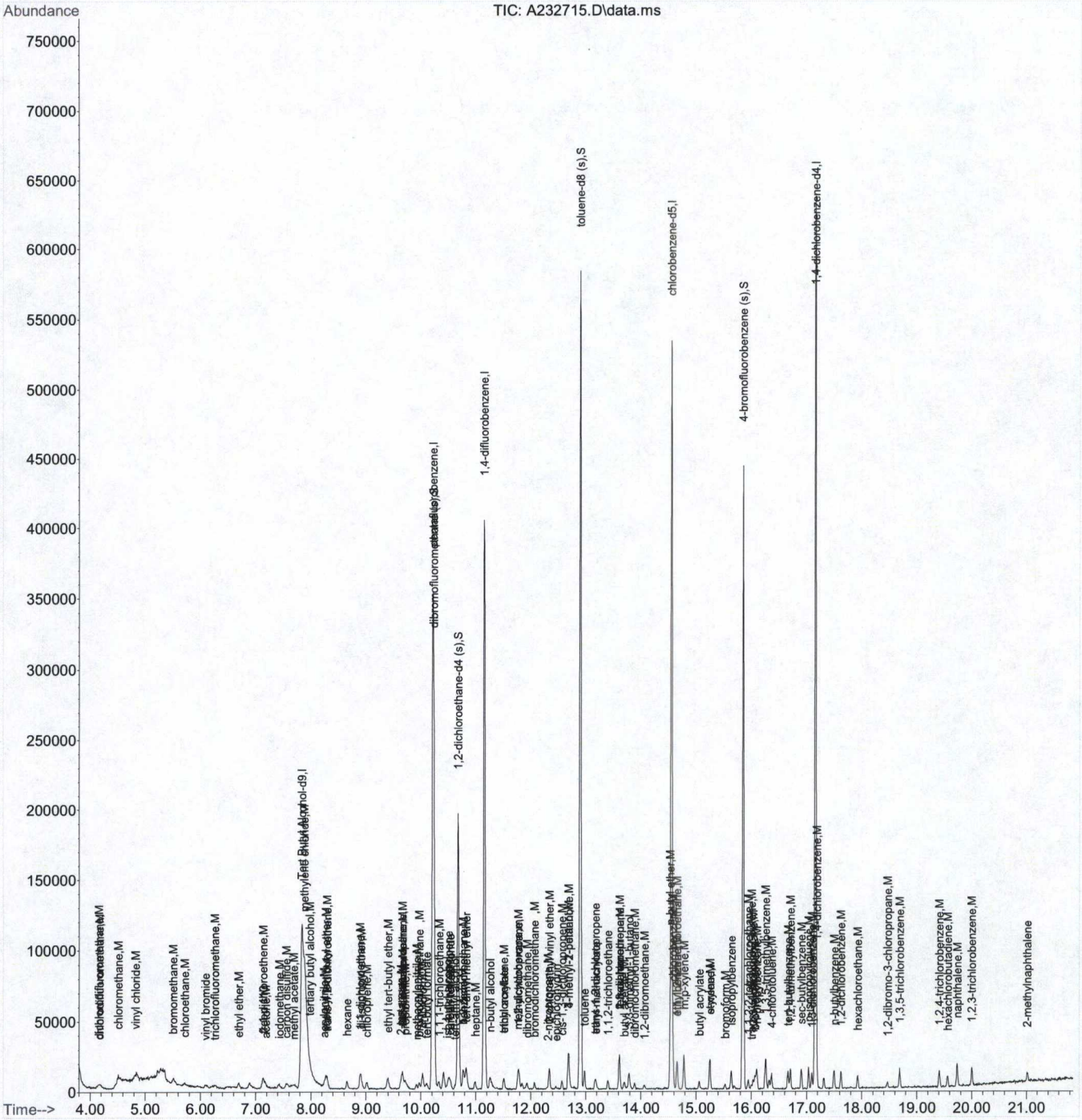
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232715.D
Acq On : 5 May 2017 4:58 pm
Operator : Gabriela
Sample : ic8806-1.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 09 08:34:22 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:54:08 2017
Response via : Initial Calibration



Manual Integrations
APPROVED
(compounds with "m" flag)
Kanya Veerawat
05/10/17 14:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232716.D
Acq On : 5 May 2017 5:28 pm
Operator : Gabriela
Sample : ic8806-2.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 09:09:39 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.842	65	437296	500.00 ug/L	0.00
5) pentafluorobenzene	10.216	168	223287	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.153	114	343088	50.00 ug/L	0.00
74) chlorobenzene-d5	14.552	117	317887	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	17.157	152	173740	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.237	113	120350	54.43 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 108.86%		
53) 1,2-dichloroethane-d4 (s)	10.677	65	142769	56.39 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 112.78%		
75) toluene-d8 (s)	12.899	98	407576	49.56 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 99.12%		
99) 4-bromofluorobenzene (s)	15.849	95	150490	51.26 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.52%		

Target Compounds					Qvalue
3) tertiary butyl alcohol	7.978	59	9636	9.95 ug/L	77
4) 1,4-dioxane	11.890	88	2448	41.32 ug/L	100
6) chlorodifluoromethane	4.176	51	10818	1.69 ug/L	85
7) dichlorodifluoromethane	4.165	85	12724	1.87 ug/L	96
8) chloromethane	4.515	50	12421	1.74 ug/L	95
9) vinyl chloride	4.829	62	14167	1.66 ug/L	84
11) bromomethane	5.514	94	8201	2.08 ug/L	94
12) chloroethane	5.708	64	5532	2.01 ug/L	97
13) vinyl bromide	6.100	106	6226	1.22 ug/L #	13
14) trichlorofluoromethane	6.268	101	12025	1.89 ug/L	94
15) ethyl ether	6.707	74	2620	1.71 ug/L	88
17) freon 113	7.141	151	5390	1.79 ug/L	89
18) 1,1-dichloroethene	7.131	96	5214	1.60 ug/L	89
19) acetone	7.193	58	3479	9.24 ug/L	99
20) acetonitrile	7.654	41	15121	18.64 ug/L	92
21) iodomethane	7.429	142	10880	1.76 ug/L	96
22) carbon disulfide	7.559	76	19527	1.54 ug/L	97
23) methylene chloride	7.889	84	6483	1.84 ug/L	90
24) methyl acetate	7.690	43	5548	1.78 ug/L	90
25) methyl tert butyl ether	8.265	73	17567	1.81 ug/L	94
26) trans-1,2-dichloroethene	8.297	96	4608	1.68 ug/L	94
27) hexane	8.658	57	4359	1.31 ug/L	90
28) di-isopropyl ether	8.914	45	16281	1.65 ug/L	94
29) ethyl tert-butyl ether	9.406	59	15841	1.67 ug/L	88
30) 2-butanone	9.625	72	3080	7.03 ug/L #	85
31) 1,1-dichloroethane	8.888	63	8793	1.79 ug/L	84
32) chloroprene	9.019	53	5952	1.60 ug/L	86
33) acrylonitrile	8.239	53	2964	1.97 ug/L	83
34) vinyl acetate	8.893	86	792	1.45 ug/L #	79
35) ethyl acetate	9.662	45	1372	2.21 ug/L #	60
36) 2,2-dichloropropane	9.683	77	9798	1.77 ug/L	93
37) cis-1,2-dichloroethene	9.657	96	4783	1.62 ug/L	90
38) methyl acrylate	9.730	85	727	1.44 ug/L #	1
39) propionitrile	9.719	54	12174	19.58 ug/L	91
40) bromochloromethane	9.971	128	2606	1.82 ug/L #	78
42) chloroform	10.033	83	8787	1.89 ug/L	90
43) tert-butyl formate	10.107	59	4818	1.36 ug/L	90
45) methacrylonitrile	9.929	67	2079	1.50 ug/L	98
47) 1,1,1-trichloroethane	10.321	97	8379	1.75 ug/L	95
48) iso-butyl alcohol	10.478	43	4233	13.60 ug/L	91
49) 1,1-dichloropropene	10.504	75	5921	1.71 ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232716.D
Acq On : 5 May 2017 5:28 pm
Operator : Gabriela
Sample : ic8806-2.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 09:09:39 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
50) carbon tetrachloride	10.530	117	7524	1.81 ug/L	94
51) tert-amyl alcohol	10.624	73	3462	7.96 ug/L #	85
54) benzene	10.776	78	18063	1.75 ug/L	95
55) iso-octane	10.823	57	16832	1.41 ug/L	90
56) tert-amyl methyl ether	10.828	73	16509	1.64 ug/L	92
57) heptane	10.985	71	2591	1.37 ug/L	97
58) isopropyl acetate	10.698	87	1079	1.51 ug/L #	56
59) 1,2-dichloroethane	10.771	62	6404	1.89 ug/L	84
60) n-butyl alcohol	11.268	56	15632	85.74 ug/L	94
61) ethyl acrylate	11.519	55	6219	1.71 ug/L	95
62) trichloroethene	11.508	95	4215	1.67 ug/L	94
63) 2-nitropropane	12.308	41	2897	2.15 ug/L	82
64) methylcyclohexane	11.764	83	7654	1.53 ug/L	95
65) 2-chloroethyl vinyl ether	12.340	63	13850	7.77 ug/L	92
66) methyl methacrylate	11.785	100	1176	1.40 ug/L #	60
67) 1,2-dichloropropane	11.785	63	4713	1.78 ug/L	98
68) dibromomethane	11.927	93	3166	1.92 ug/L #	78
69) bromodichloromethane	12.073	83	5620	1.69 ug/L	93
70) epichlorohydrin	12.460	57	4074	9.41 ug/L	96
71) cis-1,3-dichloropropene	12.570	75	6521	1.58 ug/L	98
72) 4-methyl-2-pentanone	12.690	58	10559	6.88 ug/L	93
73) 3-methyl-1-butanol	12.685	55	9977	30.38 ug/L	93
76) toluene	12.973	92	10562	1.64 ug/L #	78
77) trans-1,3-dichloropropene	13.171	75	5752	1.53 ug/L	92
78) ethyl methacrylate	13.187	69	5326	1.44 ug/L	96
79) 1,1,2-trichloroethane	13.401	83	3663	1.80 ug/L #	87
80) 2-hexanone	13.611	58	9555	6.31 ug/L	93
81) tetrachloroethene	13.621	166	4555	1.67 ug/L	78
82) 1,3-dichloropropane	13.605	76	7019	1.80 ug/L	94
83) butyl acetate	13.700	56	3711	1.64 ug/L	83
84) 3,3-dimethyl-1-butanol	13.783	57	11549	15.16 ug/L	93
85) dibromochloromethane	13.893	129	4562	1.69 ug/L	90
86) 1,2-dibromoethane	14.060	107	4446	1.71 ug/L	78
87) n-butyl ether	14.526	57	13891	1.35 ug/L #	76
88) chlorobenzene	14.584	112	11931	1.71 ug/L	95
89) 1,1,1,2-tetrachloroethane	14.657	131	4583	1.57 ug/L	93
90) ethylbenzene	14.662	91	18805	1.58 ug/L	95
91) m,p-xylene	14.782	106	13581	3.00 ug/L	97
92) o-xylene	15.248	106	6656	1.39 ug/L	97
93) styrene	15.253	104	10082	1.30 ug/L	91
94) butyl acrylate	15.059	55	7781	1.51 ug/L	91
95) bromoform	15.525	173	3333	1.67 ug/L	98
96) isopropylbenzene	15.635	105	17095	1.31 ug/L	91
97) cis-1,4-dichloro-2-butene	15.687	75	1482	1.19 ug/L #	86
100) bromobenzene	16.064	156	5213	1.72 ug/L	87
101) 1,1,2,2-tetrachloroethane	15.943	83	7320	1.83 ug/L	95
102) trans-1,4-dichloro-2-b...	16.001	53	1434	1.39 ug/L #	60
103) 1,2,3-trichloropropane	16.027	110	2233	2.11 ug/L	79
104) n-propylbenzene	16.095	91	22431	1.61 ug/L	92
105) 2-chlorotoluene	16.257	126	4820m	1.69 ug/L	
106) 4-chlorotoluene	16.367	91	14069	1.74 ug/L	93
107) 1,3,5-trimethylbenzene	16.268	105	15928	1.48 ug/L	92
108) tert-butylbenzene	16.660	134	2866	1.24 ug/L	92
109) 1,2,4-trimethylbenzene	16.702	105	14802	1.40 ug/L	96
110) sec-butylbenzene	16.906	105	19427	1.35 ug/L	97
111) 1,3-dichlorobenzene	17.094	146	9198	1.60 ug/L	95
112) p-isopropyltoluene	17.036	119	15773	1.31 ug/L	99
113) 1,4-dichlorobenzene	17.188	146	10001	1.70 ug/L	96

7.6.4 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232716.D
Acq On : 5 May 2017 5:28 pm
Operator : Gabriela
Sample : ic8806-2.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 09:09:39 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
114) 1,2-dichlorobenzene	17.622	146	10494	1.81 ug/L	92
115) n-butylbenzene	17.491	92	8416	1.39 ug/L	89
116) 1,2-dibromo-3-chloropr...	18.469	157	1997	1.65 ug/L	87
117) 1,3,5-trichlorobenzene	18.689	180	8906	1.57 ug/L	84
118) 2-ethylhexyl acrylate	19.411	70	624	0.16 ug/L #	67
119) 1,2,4-trichlorobenzene	19.411	180	8041	1.51 ug/L	95
120) hexachlorobutadiene	19.563	225	3817	1.51 ug/L	90
121) naphthalene	19.735	128	26729	1.55 ug/L	93
122) 1,2,3-trichlorobenzene	20.007	180	8958	1.54 ug/L	95
123) hexachloroethane	17.926	201	2804	1.40 ug/L	91
124) 2-methylnaphthalene	21.022	142	7527	0.62 ug/L	98

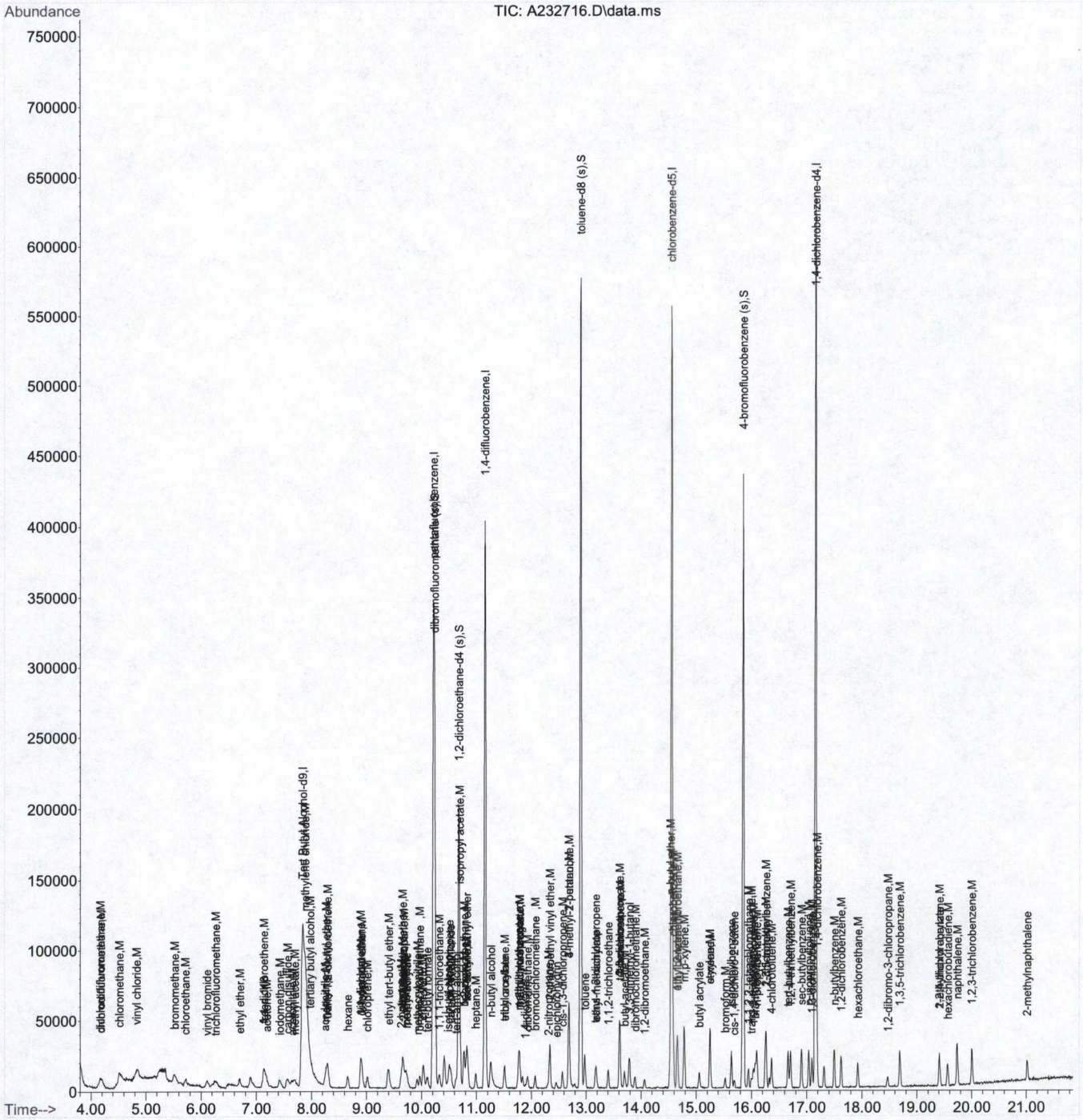
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.4 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232716.D
Acq On : 5 May 2017 5:28 pm
Operator : Gabriela
Sample : ic8806-2.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 10 09:09:39 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration



MA8806.m Wed May 10 09:14:18 2017 RPT1

Page: 4

Manual Integration Approval Summary

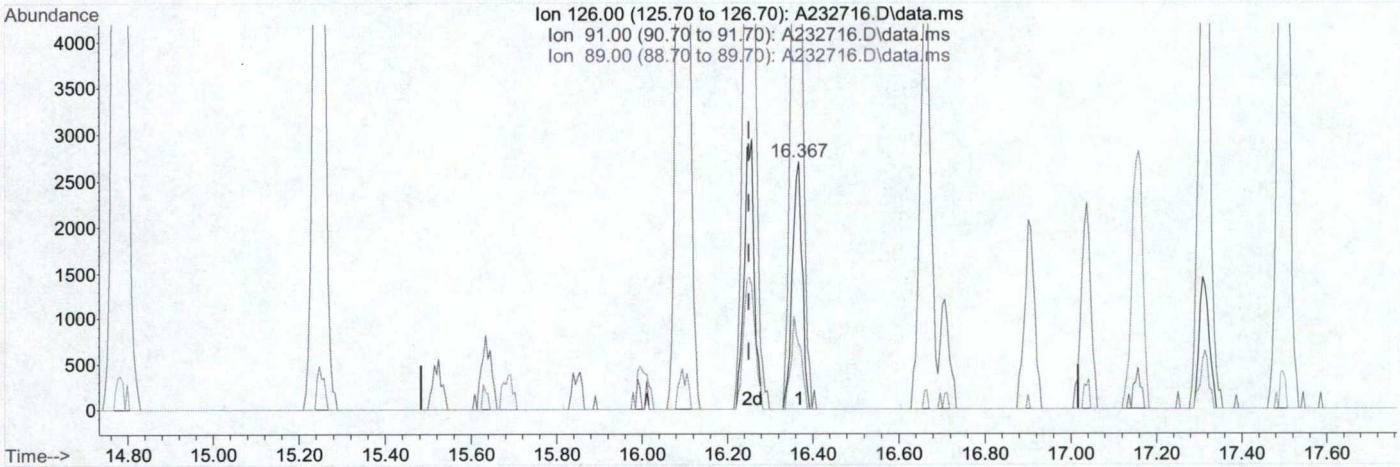
Sample Number:	VA8806-IC8806	**Method:**	SW846 8260C
Lab FileID:	A232716.D	**Analyst approved:**	05/10/17 09:16 Henny Salim
Injection Time:	05/05/17 17:28	**Supervisor approved:**	05/10/17 14:32 Kanya Veerawat

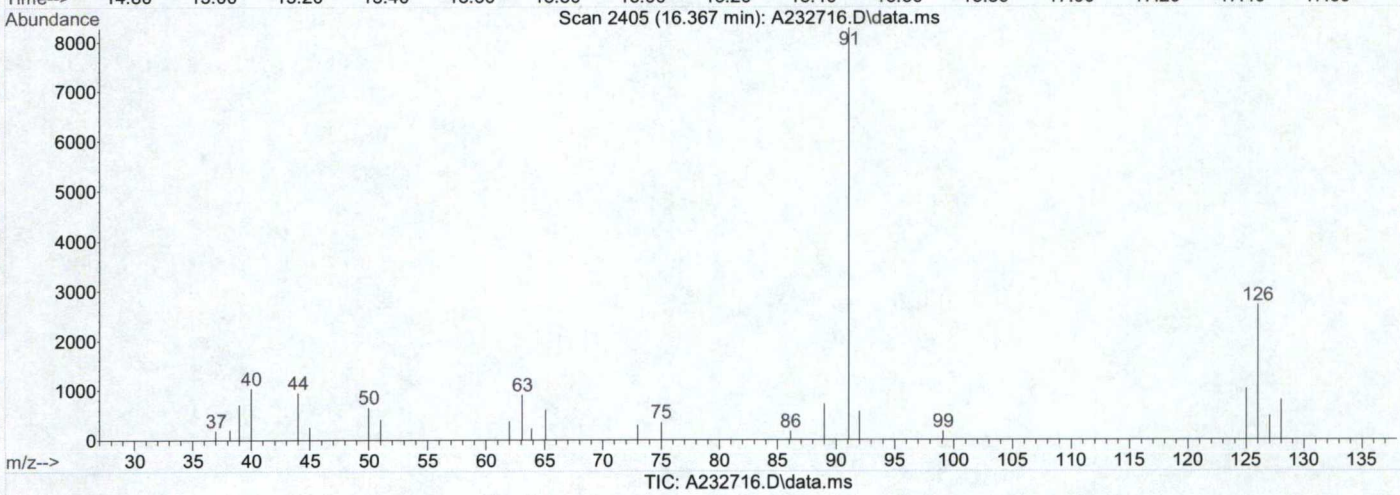
Parameter	CAS	Sig#	R.T. (min.)	Reason
o-Chlorotoluene	95-49-8		16.26	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\va8806InitialRAW\
Data File : A232716.D
Acq On : 5 May 2017 5:28 pm
Operator : Gabriela
Sample : ic8806-2.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 09 07:52:30 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration





(105) 2-chlorotoluene (M)

16.367min (+0.118) 1.50ug/L

response 4269

Ion	Exp%	Act%
126.00	100	100
91.00	285.80	306.07
89.00	54.20	26.27
0.00	0.00	0.00

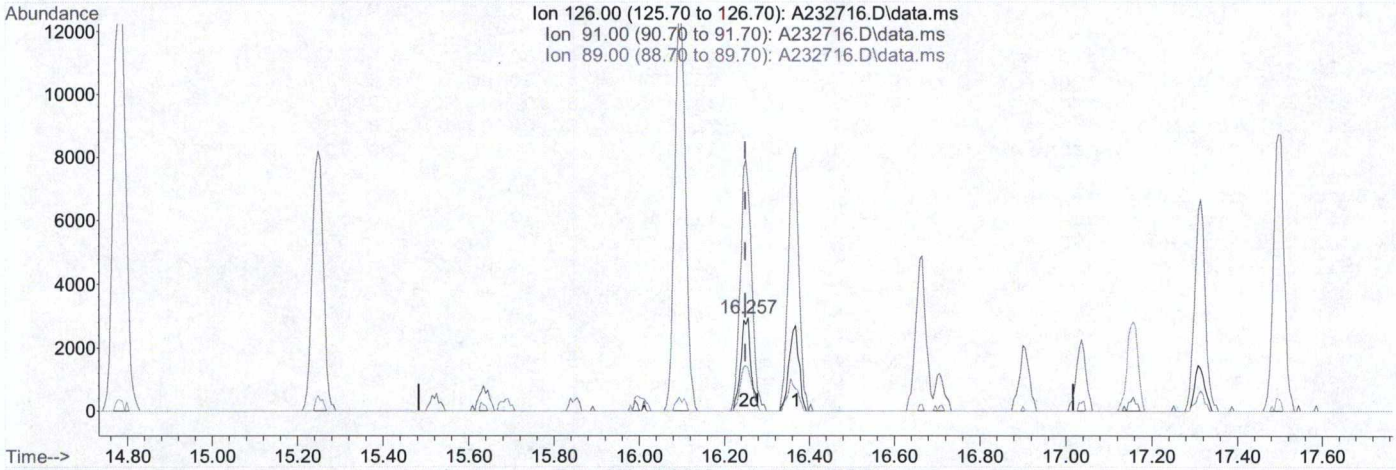
7.6.4.2

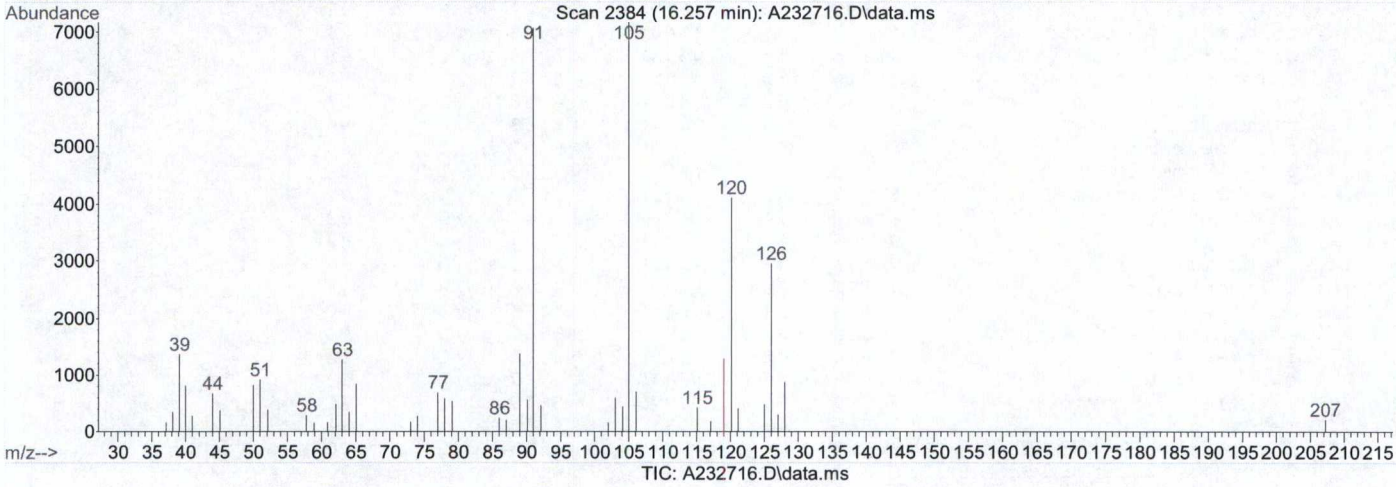
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : A232716.D
Acq On : 5 May 2017 5:28 pm
Operator : Gabriela
Sample : ic8806-2.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 09 08:34:01 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration





(105) 2-chlorotoluene (M)

16.257min (+0.008) 1.69ug/L m

response 4820

Ion	Exp%	Act%
126.00	100	100
91.00	285.80	240.03#
89.00	54.20	46.69
0.00	0.00	0.00

7.6.4.3

7

SGS ACCUTEST JC43355

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232717.D
Acq On : 5 May 2017 5:57 pm
Operator : Gabriela
Sample : ic8806-5.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 08:35:31 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.837	65	420173	500.00 ug/L	0.00
5) pentafluorobenzene	10.217	168	222084	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.153	114	345405	50.00 ug/L	0.00
74) chlorobenzene-d5	14.553	117	318227	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	17.157	152	180433	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.232	113	119799	54.47 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 108.94%		
53) 1,2-dichloroethane-d4 (s)	10.677	65	146260	57.39 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 114.78%		
75) toluene-d8 (s)	12.895	98	407445	49.49 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 98.98%		
99) 4-bromofluorobenzene (s)	15.844	95	153864	50.47 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 100.94%		

Target Compounds					Qvalue
3) tertiary butyl alcohol	7.957	59	23744	25.52 ug/L	93
4) 1,4-dioxane	11.890	88	7144	125.48 ug/L	95
6) chlorodifluoromethane	4.192	51	31004	4.88 ug/L	94
7) dichlorodifluoromethane	4.155	85	35722	5.29 ug/L	99
8) chloromethane	4.516	50	32802	4.62 ug/L	98
9) vinyl chloride	4.830	62	38894	4.58 ug/L	93
11) bromomethane	5.515	94	22050	5.63 ug/L	94
12) chloroethane	5.708	64	15285	5.59 ug/L	89
13) vinyl bromide	6.111	106	18946	3.73 ug/L	96
14) trichlorofluoromethane	6.258	101	35228	5.56 ug/L	97
15) ethyl ether	6.692	74	6789	4.46 ug/L	89
16) acrolein	6.943	56	3479	4.24 ug/L	82
17) freon 113	7.131	151	15338	5.12 ug/L	96
18) 1,1-dichloroethene	7.136	96	15395	4.76 ug/L	94
19) acetone	7.183	58	8139	21.74 ug/L	100
20) acetonitrile	7.638	41	39532	49.01 ug/L	98
21) iodomethane	7.424	142	29292	4.76 ug/L	92
22) carbon disulfide	7.575	76	56470	4.47 ug/L	98
23) methylene chloride	7.889	84	17879	5.09 ug/L	86
24) methyl acetate	7.685	43	13947	4.50 ug/L	94
25) methyl tert butyl ether	8.266	73	47712	4.93 ug/L	100
26) trans-1,2-dichloroethene	8.297	96	12784	4.69 ug/L	100
27) hexane	8.658	57	13587	4.11 ug/L	96
28) di-isopropyl ether	8.904	45	43130	4.40 ug/L	81
29) ethyl tert-butyl ether	9.390	59	43844	4.65 ug/L	97
30) 2-butanone	9.620	72	9275	21.28 ug/L #	82
31) 1,1-dichloroethane	8.893	63	23833	4.89 ug/L	95
32) chloroprene	9.014	53	17596	4.76 ug/L	89
33) acrylonitrile	8.235	53	7500	5.01 ug/L	93
34) vinyl acetate	8.893	86	2117	3.89 ug/L #	75
35) ethyl acetate	9.657	45	2776	4.50 ug/L	95
36) 2,2-dichloropropane	9.683	77	26320	4.79 ug/L	98
37) cis-1,2-dichloroethene	9.652	96	14029	4.77 ug/L	96
38) methyl acrylate	9.736	85	2307	4.59 ug/L #	40
39) propionitrile	9.709	54	31842	51.49 ug/L	92
40) bromochloromethane	9.971	128	6681	4.70 ug/L	97
41) tetrahydrofuran	10.028	42	9412	6.00 ug/L	94
42) chloroform	10.034	83	23157	4.99 ug/L	97
43) tert-butyl formate	10.096	59	12922	3.68 ug/L	95
45) methacrylonitrile	9.919	67	6461	4.69 ug/L	88
46) cyclohexane	10.415	84	21148	4.44 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232717.D
Acq On : 5 May 2017 5:57 pm
Operator : Gabriela
Sample : ic8806-5.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 08:35:31 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,1,1-trichloroethane	10.321	97	23648	4.98 ug/L	90
48) iso-butyl alcohol	10.489	43	11982	38.71 ug/L	89
49) 1,1-dichloropropene	10.499	75	15605	4.54 ug/L	97
50) carbon tetrachloride	10.531	117	20287	4.91 ug/L	99
51) tert-amyl alcohol	10.630	73	9972	23.06 ug/L	95
54) benzene	10.771	78	48006	4.62 ug/L	98
55) iso-octane	10.818	57	53396	4.44 ug/L	96
56) tert-amyl methyl ether	10.829	73	46518	4.58 ug/L	97
57) heptane	10.991	71	7412	3.90 ug/L	92
58) isopropyl acetate	10.703	87	3094	4.29 ug/L #	87
59) 1,2-dichloroethane	10.771	62	18388	5.39 ug/L	98
60) n-butyl alcohol	11.258	56	42026	228.96 ug/L	93
61) ethyl acrylate	11.514	55	16190	4.42 ug/L	98
62) trichloroethene	11.509	95	11125	4.37 ug/L	86
63) 2-nitropropane	12.304	41	6591	4.86 ug/L	95
64) methylcyclohexane	11.770	83	22830	4.54 ug/L	97
65) 2-chloroethyl vinyl ether	12.335	63	38373	21.39 ug/L	97
66) methyl methacrylate	11.796	100	3681	4.36 ug/L #	71
67) 1,2-dichloropropane	11.781	63	12443	4.66 ug/L	97
68) dibromomethane	11.927	93	8079	4.86 ug/L	90
69) bromodichloromethane	12.068	83	15866	4.73 ug/L	99
70) epichlorohydrin	12.455	57	10114	23.20 ug/L	98
71) cis-1,3-dichloropropene	12.570	75	17630	4.25 ug/L	97
72) 4-methyl-2-pentanone	12.691	58	28904	18.72 ug/L	97
73) 3-methyl-1-butanol	12.685	55	29395	88.91 ug/L	97
76) toluene	12.978	92	27712	4.30 ug/L	99
77) trans-1,3-dichloropropene	13.167	75	16313	4.32 ug/L	96
78) ethyl methacrylate	13.182	69	13846	3.73 ug/L	97
79) 1,1,2-trichloroethane	13.402	83	9553	4.69 ug/L	89
80) 2-hexanone	13.611	58	26153	17.24 ug/L	93
81) tetrachloroethene	13.616	166	12141	4.45 ug/L	96
82) 1,3-dichloropropane	13.606	76	18634	4.77 ug/L	95
83) butyl acetate	13.700	56	9567	4.23 ug/L	95
84) 3,3-dimethyl-1-butanol	13.789	57	31347	41.10 ug/L	98
85) dibromochloromethane	13.888	129	12505	4.64 ug/L	92
86) 1,2-dibromoethane	14.061	107	11885	4.57 ug/L	95
87) n-butyl ether	14.526	57	40535	3.93 ug/L	90
88) chlorobenzene	14.589	112	31914	4.57 ug/L	97
89) 1,1,1,2-tetrachloroethane	14.652	131	13225	4.53 ug/L	98
90) ethylbenzene	14.662	91	52455	4.41 ug/L	97
91) m,p-xylene	14.777	106	39280	8.67 ug/L	99
92) o-xylene	15.248	106	20051	4.19 ug/L	98
93) styrene	15.253	104	31317	4.03 ug/L	99
94) butyl acrylate	15.055	55	22022	4.27 ug/L	99
95) bromoform	15.525	173	9223	4.62 ug/L	98
96) isopropylbenzene	15.635	105	51382	3.93 ug/L	98
97) cis-1,4-dichloro-2-butene	15.687	75	3826	3.08 ug/L	85
100) bromobenzene	16.069	156	14416	4.58 ug/L	90
101) 1,1,2,2-tetrachloroethane	15.944	83	19220	4.63 ug/L	96
102) trans-1,4-dichloro-2-b...	16.001	53	4047	3.77 ug/L	88
103) 1,2,3-trichloropropane	16.038	110	5719	5.21 ug/L	91
104) n-propylbenzene	16.095	91	62894	4.36 ug/L	98
105) 2-chlorotoluene	16.252	126	12995	4.39 ug/L	93
106) 4-chlorotoluene	16.362	91	37775	4.49 ug/L	94
107) 1,3,5-trimethylbenzene	16.263	105	45220	4.04 ug/L	99
108) tert-butylbenzene	16.655	134	8913	3.73 ug/L #	83
109) 1,2,4-trimethylbenzene	16.707	105	46503	4.22 ug/L	99
110) sec-butylbenzene	16.906	105	60079	4.02 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232717.D
Acq On : 5 May 2017 5:57 pm
Operator : Gabriela
Sample : ic8806-5.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 08:35:31 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
111) 1,3-dichlorobenzene	17.094	146	27350	4.57 ug/L	96
112) p-isopropyltoluene	17.037	119	48930	3.92 ug/L	98
113) 1,4-dichlorobenzene	17.183	146	28593	4.68 ug/L	96
114) 1,2-dichlorobenzene	17.623	146	28828	4.78 ug/L	96
115) n-butylbenzene	17.497	92	26159	4.16 ug/L	94
116) 1,2-dibromo-3-chloropr...	18.470	157	5759	4.57 ug/L	96
117) 1,3,5-trichlorobenzene	18.684	180	25624	4.36 ug/L	99
118) 2-ethylhexyl acrylate	19.390	70	1546	0.38 ug/L #	63
119) 1,2,4-trichlorobenzene	19.411	180	23019	4.17 ug/L	98
120) hexachlorobutadiene	19.558	225	10881	4.15 ug/L	96
121) naphthalene	19.736	128	73446	4.11 ug/L	99
122) 1,2,3-trichlorobenzene	20.008	180	26065	4.33 ug/L	94
123) hexachloroethane	17.921	201	8249	3.98 ug/L	97
124) 2-methylnaphthalene	21.017	142	21979	1.75 ug/L	97

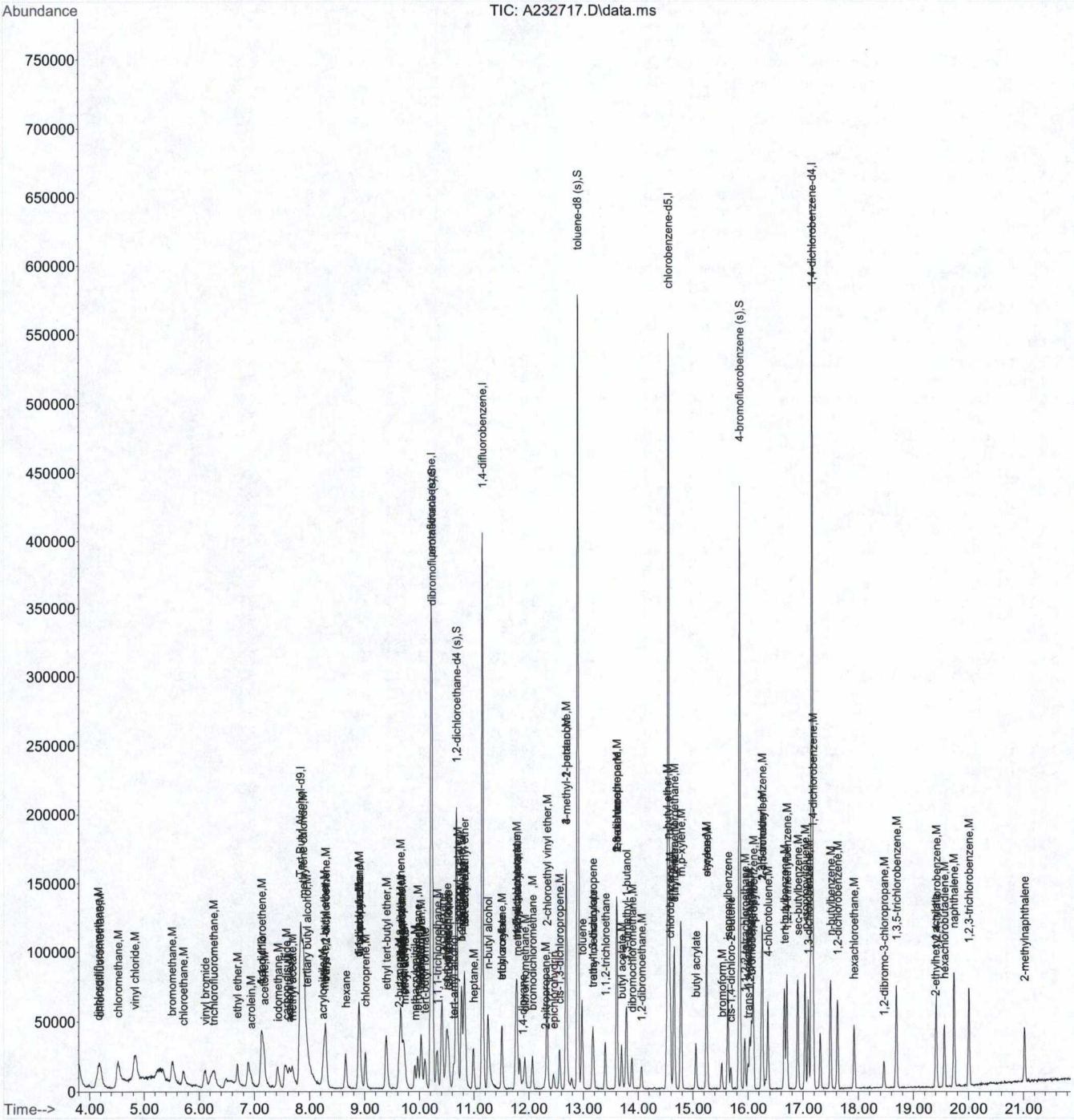
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.5 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232717.D
Acq On : 5 May 2017 5:57 pm
Operator : Gabriela
Sample : ic8806-5.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 08:35:31 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232718.D
Acq On : 5 May 2017 6:27 pm
Operator : Gabriela
Sample : ic8806-10.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 08:37:41 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.841	65	438077	500.00 ug/L	0.00
5) pentafluorobenzene	10.215	168	220054	50.00 ug/L	0.00
52) 1,4-difluorobenzene	11.152	114	341603	50.00 ug/L	0.00
74) chlorobenzene-d5	14.551	117	320392	50.00 ug/L	0.00
98) 1,4-dichlorobenzene-d4	17.156	152	183440	50.00 ug/L	0.00
System Monitoring Compounds					
44) dibromofluoromethane (s)	10.236	113	118170	54.23 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 108.46%		
53) 1,2-dichloroethane-d4 (s)	10.676	65	144774	57.43 ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 114.86%		
75) toluene-d8 (s)	12.899	98	407899	49.21 ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 98.42%		
99) 4-bromofluorobenzene (s)	15.848	95	153340	49.47 ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.94%		

Target Compounds					Qvalue
3) tertiary butyl alcohol	7.956	59	48000	49.48 ug/L	88
4) 1,4-dioxane	11.889	88	14889	250.84 ug/L	97
6) chlorodifluoromethane	4.185	51	60745	9.64 ug/L	97
7) dichlorodifluoromethane	4.180	85	80584	12.04 ug/L	89
8) chloromethane	4.530	50	66273	9.41 ug/L	99
9) vinyl chloride	4.839	62	83166	9.89 ug/L	98
11) bromomethane	5.524	94	44523	11.47 ug/L	96
12) chloroethane	5.718	64	31798	11.74 ug/L	94
13) vinyl bromide	6.120	106	38231	7.61 ug/L	99
14) trichlorofluoromethane	6.256	101	75936	12.09 ug/L	97
15) ethyl ether	6.701	74	13935	9.24 ug/L	93
16) acrolein	6.952	56	7037	8.66 ug/L	85
17) freon 113	7.140	151	32688	11.01 ug/L #	96
18) 1,1-dichloroethene	7.140	96	29382	9.17 ug/L	96
19) acetone	7.177	58	16799	45.29 ug/L	97
20) acetonitrile	7.637	41	78692	98.46 ug/L	90
21) iodomethane	7.417	142	59704	9.79 ug/L	97
22) carbon disulfide	7.564	76	110349	8.82 ug/L	97
23) methylene chloride	7.883	84	34796	10.01 ug/L	94
24) methyl acetate	7.694	43	27077	8.82 ug/L	99
25) methyl tert butyl ether	8.270	73	91409	9.53 ug/L	98
26) trans-1,2-dichloroethene	8.296	96	24945	9.25 ug/L	95
27) hexane	8.657	57	27900	8.51 ug/L	96
28) di-isopropyl ether	8.908	45	85828	8.84 ug/L	83
29) ethyl tert-butyl ether	9.394	59	87647	9.39 ug/L	97
30) 2-butanone	9.624	72	17253	39.95 ug/L	98
31) 1,1-dichloroethane	8.892	63	45233	9.36 ug/L	99
32) chloroprene	9.012	53	34014	9.29 ug/L	93
33) acrylonitrile	8.233	53	16049	10.82 ug/L	94
34) vinyl acetate	8.897	86	4845	8.99 ug/L #	91
35) ethyl acetate	9.656	45	5151	8.42 ug/L #	77
36) 2,2-dichloropropane	9.687	77	51392	9.44 ug/L	97
37) cis-1,2-dichloroethene	9.656	96	26055	8.94 ug/L	93
38) methyl acrylate	9.734	85	4683	9.40 ug/L #	58
39) propionitrile	9.708	54	63344	103.38 ug/L	83
40) bromochloromethane	9.970	128	13727	9.75 ug/L	93
41) tetrahydrofuran	10.027	42	15255	9.81 ug/L	93
42) chloroform	10.032	83	42628	9.28 ug/L	99
43) tert-butyl formate	10.100	59	25858	7.43 ug/L	94
45) methacrylonitrile	9.917	67	12583	9.21 ug/L	94
46) cyclohexane	10.414	84	38376	8.13 ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232718.D
Acq On : 5 May 2017 6:27 pm
Operator : Gabriela
Sample : ic8806-10.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 08:37:41 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,1,1-trichloroethane	10.320	97	46465	9.87 ug/L	92
48) iso-butyl alcohol	10.482	43	26821	87.45 ug/L	94
49) 1,1-dichloropropene	10.503	75	30668	9.00 ug/L	91
50) carbon tetrachloride	10.534	117	40565	9.91 ug/L	99
51) tert-amyl alcohol	10.634	73	21753	50.76 ug/L	90
54) benzene	10.770	78	90151	8.77 ug/L	98
55) iso-octane	10.817	57	117703	9.89 ug/L	96
56) tert-amyl methyl ether	10.833	73	91794	9.13 ug/L	96
57) heptane	10.984	71	16220	8.63 ug/L	94
58) isopropyl acetate	10.697	87	6116	8.58 ug/L #	85
59) 1,2-dichloroethane	10.775	62	34843	10.33 ug/L	89
60) n-butyl alcohol	11.256	56	89508	493.06 ug/L	96
61) ethyl acrylate	11.518	55	33652	9.29 ug/L	97
62) trichloroethene	11.507	95	22091	8.78 ug/L	94
63) 2-nitropropane	12.313	41	13108	9.77 ug/L #	57
64) methylcyclohexane	11.769	83	47321	9.51 ug/L	97
65) 2-chloroethyl vinyl ether	12.339	63	78647	44.34 ug/L	97
66) methyl methacrylate	11.795	100	6990	8.37 ug/L #	67
67) 1,2-dichloropropane	11.784	63	23177	8.77 ug/L	93
68) dibromomethane	11.931	93	16059	9.76 ug/L	96
69) bromodichloromethane	12.072	83	31083	9.37 ug/L	92
70) epichlorohydrin	12.454	57	19970	46.32 ug/L	96
71) cis-1,3-dichloropropene	12.569	75	34330	8.36 ug/L	92
72) 4-methyl-2-pentanone	12.689	58	61528	40.28 ug/L	99
73) 3-methyl-1-butanol	12.684	55	62373	190.75 ug/L	97
76) toluene	12.977	92	51979	8.01 ug/L	94
77) trans-1,3-dichloropropene	13.170	75	30781	8.10 ug/L	97
78) ethyl methacrylate	13.186	69	29061	7.77 ug/L	93
79) 1,1,2-trichloroethane	13.401	83	18217	8.88 ug/L	96
80) 2-hexanone	13.615	58	55524	36.36 ug/L	91
81) tetrachloroethene	13.620	166	23470	8.55 ug/L	98
82) 1,3-dichloropropane	13.610	76	35734	9.09 ug/L	97
83) butyl acetate	13.699	56	20102	8.84 ug/L	95
84) 3,3-dimethyl-1-butanol	13.788	57	70052	91.23 ug/L	96
85) dibromochloromethane	13.887	129	23378	8.61 ug/L	98
86) 1,2-dibromoethane	14.065	107	23304	8.91 ug/L	96
87) n-butyl ether	14.525	57	83412	8.04 ug/L	96
88) chlorobenzene	14.588	112	60660	8.64 ug/L	97
89) 1,1,1,2-tetrachloroethane	14.656	131	25811	8.78 ug/L	96
90) ethylbenzene	14.661	91	99316	8.29 ug/L	99
91) m,p-xylene	14.781	106	77056	16.89 ug/L	97
92) o-xylene	15.247	106	40650	8.44 ug/L	96
93) styrene	15.252	104	62420	7.98 ug/L	97
94) butyl acrylate	15.053	55	44831	8.62 ug/L	98
95) bromoform	15.524	173	18023	8.96 ug/L	97
96) isopropylbenzene	15.639	105	104123	7.91 ug/L	99
97) cis-1,4-dichloro-2-butene	15.686	75	8522	6.81 ug/L #	87
100) bromobenzene	16.068	156	27333	8.55 ug/L	93
101) 1,1,2,2-tetrachloroethane	15.942	83	39419	9.34 ug/L	99
102) trans-1,4-dichloro-2-b...	16.000	53	8001	7.34 ug/L	97
103) 1,2,3-trichloropropane	16.037	110	10478	9.40 ug/L	91
104) n-propylbenzene	16.099	91	124753	8.51 ug/L	98
105) 2-chlorotoluene	16.251	126	25292	8.41 ug/L	96
106) 4-chlorotoluene	16.366	91	70997	8.30 ug/L	99
107) 1,3,5-trimethylbenzene	16.261	105	92098	8.09 ug/L	98
108) tert-butylbenzene	16.659	134	18236	7.50 ug/L	98
109) 1,2,4-trimethylbenzene	16.706	105	91297	8.16 ug/L	99
110) sec-butylbenzene	16.905	105	122656	8.08 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : A232718.D
Acq On : 5 May 2017 6:27 pm
Operator : Gabriela
Sample : ic8806-10.0
Misc : MS15471,VA8806,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 08:37:41 2017
Quant Method : C:\MSDCHEM\1\METHODS\MA8806.m
Quant Title : SW 846 8260C DB624 60m x 0.25mm x 1.4um
QLast Update : Tue May 09 07:52:10 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
111) 1,3-dichlorobenzene	17.093	146	53169	8.73 ug/L	97
112) p-isopropyltoluene	17.036	119	102046	8.04 ug/L	94
113) 1,4-dichlorobenzene	17.182	146	54693	8.81 ug/L	96
114) 1,2-dichlorobenzene	17.621	146	54793	8.94 ug/L	99
115) n-butylbenzene	17.496	92	51595	8.06 ug/L	98
116) 1,2-dibromo-3-chloropr...	18.463	157	12120	9.46 ug/L	98
117) 1,3,5-trichlorobenzene	18.688	180	51149	8.57 ug/L	94
118) 2-ethylhexyl acrylate	19.400	70	3707	0.89 ug/L	93
119) 1,2,4-trichlorobenzene	19.410	180	47544	8.47 ug/L	97
120) hexachlorobutadiene	19.562	225	21809	8.18 ug/L	94
121) naphthalene	19.734	128	158595	8.72 ug/L	99
122) 1,2,3-trichlorobenzene	20.001	180	53024	8.66 ug/L	98
123) hexachloroethane	17.925	201	15932	7.56 ug/L	95
124) 2-methylnaphthalene	21.021	142	47040	3.67 ug/L	98

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

7.6.6 7