Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79196.D
Acq On : 17 May 2017 7:49 pm
Operator : BridgetK
Sample : cc3413-50
Misc : MS15947,V4D3423,5,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 18 08:17:35 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 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.560	65	147365	500.00	ug/L	0.00
5) pentafluorobenzene	10.103	168	206087	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	303619	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	261527	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	136432	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.087	113	104827	51.33	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 102.66%			
53) 1,2-dichloroethane-d4 (s)	10.533	65	109219	49.81	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 99.62%			
75) toluene-d8 (s)	12.709	98	333558	49.28	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 98.56%			
99) 4-bromofluorobenzene (s)	15.372	95	124688	49.37	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.74%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.691	59	120727	279.85	ug/L	98
3) Ethanol	6.113	45	223540	5651.19	ug/L	100
4) 1,4-dioxane	11.755	88	46262	1473.15	ug/L	98
6) chlorodifluoromethane	3.817	51	129284	59.82	ug/L	98
7) dichlorodifluoromethane	3.811	85	206416	59.46	ug/L	99
8) chloromethane	4.163	50	242338	58.79	ug/L	100
9) vinyl chloride	4.441	62	247509	62.79	ug/L	98
11) bromomethane	5.138	94	163289	62.65	ug/L	99
12) chloroethane	5.342	64	116420	61.99	ug/L	97
13) trichlorofluoromethane	5.893	101	242662	61.67	ug/L	96
14) vinyl bromide	5.736	106	109686	46.51	ug/L	99
15) ethyl ether	6.365	74	75855	57.82	ug/L	98
16) acrolein	6.569	56	39525	61.77	ug/L	99
17) freon 113	6.842	151	102229	54.66	ug/L	98
18) 1,1-dichloroethene	6.810	96	120067	56.49	ug/L	98
19) acetone	6.821	58	62321	238.83	ug/L	97
20) acetonitrile	7.277	41	243544	536.73	ug/L	100
21) iodomethane	7.083	142	248902	56.64	ug/L	99
22) carbon disulfide	7.235	76	416793	56.72	ug/L	100
23) methylene chloride	7.586	84	145571	55.36	ug/L	99
24) methyl acetate	7.387	43	130073	55.29	ug/L	99
25) methyl tert butyl ether	8.048	73	418821	54.91	ug/L	100
26) trans-1,2-dichloroethene	8.053	96	134264	52.58	ug/L	98
27) di-isopropyl ether	8.756	45	473642	55.47	ug/L	99
28) 2-butanone	9.442	72	80993	233.89	ug/L	96
29) 1,1-dichloroethane	8.672	63	257575	57.09	ug/L	99
30) chloroprene	8.824	53	199011	57.38	ug/L	99
31) acrylonitrile	7.927	53	63495	58.17	ug/L	99
32) hexane	8.483	56	88260	51.82	ug/L	98
33) vinyl acetate	8.693	86	26215	54.26	ug/L	91
34) ethyl tert-butyl ether	9.269	59	457731	55.86	ug/L	100
35) ethyl acetate	9.516	45	25053	52.78	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79196.D
Acq On : 17 May 2017 7:49 pm
Operator : BridgetK
Sample : cc3413-50
Misc : MS15947,V4D3423,5,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 18 08:17:35 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 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,2-dichloropropane	9.516	77	165607	49.00 ug/L	99
37) cis-1,2-dichloroethene	9.484	96	153394	55.92 ug/L	98
38) methyl acrylate	9.584	85	27201	56.00 ug/L	96
39) propionitrile	9.505	54	260870	569.55 ug/L	100
40) bromochloromethane	9.804	128	79145	57.36 ug/L	97
41) tetrahydrofuran	9.872	72	25504	50.85 ug/L	99
42) chloroform	9.883	85	158813	53.13 ug/L	99
43) t-butyl formate	9.967	59	118555	54.38 ug/L	97
45) methacrylonitrile	9.736	67	72490	57.33 ug/L	98
46) 1,1,1-trichloroethane	10.187	97	200225	56.96 ug/L	99
47) cyclohexane	10.302	84	192044	61.87 ug/L	97
48) 1,1-dichloropropene	10.381	75	189426	58.27 ug/L	98
49) iso-butyl alcohol	10.365	43	98868	538.88 ug/L	99
50) carbon tetrachloride	10.418	117	182511	58.05 ug/L	99
51) tert amyl alcohol	10.512	55	40586	275.23 ug/L	98
54) n-butyl alcohol	11.152	56	296882	2934.15 ug/L	99
55) 2,2,4-trimethylpentane	10.748	57	491403	53.52 ug/L	97
56) benzene	10.648	78	533444	56.12 ug/L	100
57) tert-amyl methyl ether	10.743	87	97540	54.70 ug/L	98
58) heptane	10.926	71	94266	49.83 ug/L	97
59) isopropyl acetate	10.612	87	31823	57.67 ug/L	96
60) 1,2-dichloroethane	10.627	62	188328	55.71 ug/L	99
61) trichloroethene	11.393	130	137887	58.26 ug/L	99
62) ethyl acrylate	11.414	55	216531	54.65 ug/L	99
63) 2-nitropropane	12.127	41	41758	51.34 ug/L	99
64) 2-chloroethyl vinyl ether	12.190	63	442934	255.69 ug/L	99
65) methyl methacrylate	11.686	100	41185	56.58 ug/L #	80
66) 1,2-dichloropropane	11.639	63	150143	57.82 ug/L	99
67) dibromomethane	11.776	93	100510	57.44 ug/L	96
68) methylcyclohexane	11.666	83	225699	58.61 ug/L	99
69) bromodichloromethane	11.917	83	190376	56.77 ug/L	100
70) epichlorohydrin	12.274	57	83771	254.50 ug/L	99
71) cis-1,3-dichloropropene	12.394	75	222042	53.90 ug/L	99
72) 4-methyl-2-pentanone	12.515	58	278918	230.14 ug/L	98
73) 3-methyl-1-butanol	12.515	55	186217	1116.04 ug/L	98
76) toluene	12.782	92	304151	56.06 ug/L	100
77) trans-1,3-dichloropropene	12.945	75	195541	54.00 ug/L	99
78) ethyl methacrylate	12.992	69	197331	58.47 ug/L	100
79) 1,1,2-trichloroethane	13.149	83	116519	57.54 ug/L	100
80) tetrachloroethene	13.369	164	111599	59.40 ug/L	99
81) 1,3-dichloropropane	13.333	76	201671	56.35 ug/L	99
82) 2-hexanone	13.354	58	272933	236.11 ug/L	98
83) butyl acetate	13.453	56	110697	55.86 ug/L	99
84) 3,3-dimethyl-1-butanol	13.516	57	192795	563.33 ug/L	99
85) dibromochloromethane	13.590	129	157390	57.05 ug/L	99
86) 1,2-dibromoethane	13.736	107	147098	55.93 ug/L	99
87) n-butyl ether	14.214	57	536165	56.04 ug/L	99
88) chlorobenzene	14.229	112	351476	56.56 ug/L	99
89) 1,1,1,2-tetrachloroethane	14.287	131	137846	59.03 ug/L	98
90) ethylbenzene	14.308	91	578546	57.11 ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79196.D
Acq On : 17 May 2017 7:49 pm
Operator : BridgetK
Sample : cc3413-50
Misc : MS15947,V4D3423,5,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 18 08:17:35 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 12:20:55 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	m,p-xylene	14.418	106	439788	113.71	ug/L		99
92)	o-xylene	14.838	106	222032	57.43	ug/L		100
93)	styrene	14.838	104	383679	57.68	ug/L		100
94)	bromoform	15.063	173	121579	58.79	ug/L		99
95)	butyl acrylate	14.675	55	320281	59.28	ug/L		100
96)	isopropylbenzene	15.199	105	576849	57.62	ug/L		100
97)	cis-1,4-dichloro-2-butene	15.220	88	4145	4.06	ug/L	#	79
100)	bromobenzene	15.572	156	162891	55.21	ug/L		97
101)	1,1,2,2-tetrachloroethane	15.451	83	216462	55.26	ug/L		99
102)	trans-1,4-dichloro-2-b...	15.503	53	4742	5.48	ug/L	#	60
103)	1,2,3-trichloropropane	15.530	110	45597	55.75	ug/L		98
104)	n-propylbenzene	15.619	91	703634	57.46	ug/L		99
105)	2-chlorotoluene	15.745	126	144795	58.14	ug/L		94
106)	4-chlorotoluene	15.849	91	411830	55.12	ug/L		99
107)	1,3,5-trimethylbenzene	15.776	105	481628	57.14	ug/L		99
108)	tert-butylbenzene	16.138	134	87304	58.55	ug/L		100
109)	1,2,4-trimethylbenzene	16.175	105	487022	56.37	ug/L		99
110)	sec-butylbenzene	16.363	105	635300	58.23	ug/L		99
111)	1,3-dichlorobenzene	16.521	146	295676	56.42	ug/L		99
112)	p-isopropyltoluene	16.489	119	533457	58.02	ug/L		99
113)	1,4-dichlorobenzene	16.604	146	296758	55.89	ug/L		98
114)	benzyl chloride	16.715	91	283401	45.23	ug/L		99
115)	1,2-dichlorobenzene	17.008	146	292330	56.43	ug/L		99
116)	n-butylbenzene	16.914	92	285309	59.44	ug/L		97
117)	1,2-dibromo-3-chloropr...	17.805	75	39094	59.09	ug/L		99
118)	1,3,5-trichlorobenzene	18.046	180	270468	58.18	ug/L		96
119)	2-ethylhexyl acrylate	18.744	70	25822	16.43	ug/L		96
120)	1,2,4-trichlorobenzene	18.717	180	236106	57.97	ug/L		99
121)	hexachlorobutadiene	18.880	225	123141	61.84	ug/L		98
122)	naphthalene	19.006	128	558049	62.19	ug/L		99
123)	1,2,3-trichlorobenzene	19.268	180	210618	58.92	ug/L		99
124)	hexachloroethane	17.312	201	94400	53.25	ug/L		99
125)	2-methylnaphthalene	20.243	142	101529	26.56	ug/L		99

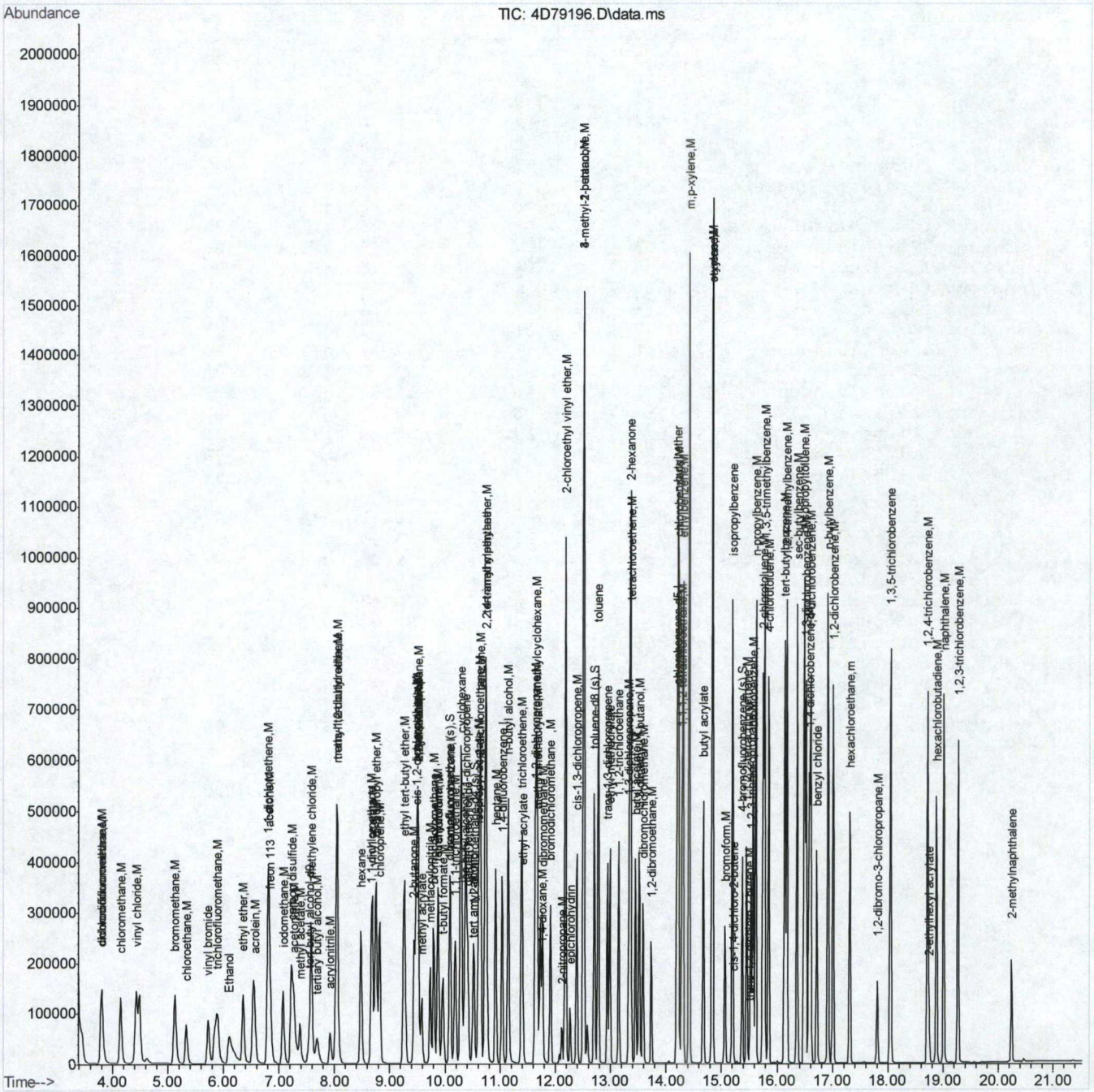
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.7.12 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79196.D
Acq On : 17 May 2017 7:49 pm
Operator : BridgetK
Sample : cc3413-50
Misc : MS15947,V4D3423,5,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 18 08:17:35 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 12:20:55 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79224.D
Acq On : 18 May 2017 9:14 am
Operator : BridgetK
Sample : CC3413-20
Misc : MS16090,V4D3424,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 15:55:31 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 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.550	65	229313	500.00	ug/L	0.00
5) pentafluorobenzene	10.098	168	268167	50.00	ug/L	0.00
52) 1,4-difluorobenzene	11.042	114	399664	50.00	ug/L	0.00
74) chlorobenzene-d5	14.198	117	346380	50.00	ug/L	0.00
98) 1,4-dichlorobenzene-d4	16.578	152	187275	50.00	ug/L	0.00
System Monitoring Compounds						
44) dibromofluoromethane (s)	10.082	113	142902	53.77	ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 107.54%			
53) 1,2-dichloroethane-d4 (s)	10.528	65	158830	55.03	ug/L	0.00
Spiked Amount 50.000	Range 73 - 122		Recovery = 110.06%			
75) toluene-d8 (s)	12.709	98	451015	50.31	ug/L	0.00
Spiked Amount 50.000	Range 84 - 119		Recovery = 100.62%			
99) 4-bromofluorobenzene (s)	15.372	95	169846	49.00	ug/L	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 98.00%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.681	59	47757	71.14	ug/L	96
3) Ethanol	6.108	45	93950	1526.32	ug/L	96
4) 1,4-dioxane	11.749	88	17991	368.17	ug/L	99
6) chlorodifluoromethane	3.806	51	53469	19.01	ug/L	96
7) dichlorodifluoromethane	3.806	85	87308	19.33	ug/L	97
8) chloromethane	4.142	50	96844	18.06	ug/L	100
9) vinyl chloride	4.414	62	96171	18.75	ug/L	100
11) bromomethane	5.122	94	61820	18.23	ug/L	98
12) chloroethane	5.332	64	46590	19.06	ug/L	97
13) trichlorofluoromethane	5.872	101	101333	19.79	ug/L	94
14) vinyl bromide	5.725	106	41646	13.57	ug/L	97
15) ethyl ether	6.354	74	29725	17.41	ug/L	95
16) acrolein	6.559	56	15575	18.71	ug/L	98
17) freon 113	6.826	151	41053	16.87	ug/L	96
18) 1,1-dichloroethene	6.800	96	47138	17.04	ug/L	89
19) acetone	6.816	58	23764	69.99	ug/L	89
20) acetonitrile	7.272	41	102918	174.31	ug/L	98
21) iodomethane	7.073	142	97675	17.08	ug/L	98
22) carbon disulfide	7.225	76	168863	17.66	ug/L	99
23) methylene chloride	7.581	84	59528	17.40	ug/L	96
24) methyl acetate	7.382	43	54184	17.70	ug/L	98
25) methyl tert butyl ether	8.037	73	170049	17.13	ug/L	99
26) trans-1,2-dichloroethene	8.043	96	53784	16.19	ug/L	98
27) di-isopropyl ether	8.745	45	196531	17.69	ug/L	97
28) 2-butanone	9.442	72	31092	69.00	ug/L	89
29) 1,1-dichloroethane	8.667	63	106878	18.20	ug/L	99
30) chloroprene	8.819	53	83112	18.42	ug/L	97
31) acrylonitrile	7.922	53	25275	17.80	ug/L	100
32) hexane	8.478	56	40186	18.13	ug/L	92
33) vinyl acetate	8.688	86	10249	16.30	ug/L	92
34) ethyl tert-butyl ether	9.259	59	183397	17.20	ug/L	99
35) ethyl acetate	9.511	45	10460	16.93	ug/L	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79224.D
Acq On : 18 May 2017 9:14 am
Operator : BridgetK
Sample : CC3413-20
Misc : MS16090,V4D3424,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 15:55:31 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 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 2,2-dichloropropane	9.511	77	84307	19.17 ug/L	99
37) cis-1,2-dichloroethene	9.479	96	60516	16.96 ug/L	98
38) methyl acrylate	9.579	85	10027	15.86 ug/L	91
39) propionitrile	9.500	54	107323	180.07 ug/L	98
40) bromochloromethane	9.799	128	31325	17.45 ug/L	98
41) tetrahydrofuran	9.867	72	11049	16.93 ug/L	97
42) chloroform	9.878	85	66132	17.00 ug/L	99
43) t-butyl formate	9.962	59	46371	16.34 ug/L	93
45) methacrylonitrile	9.731	67	28283	17.19 ug/L	94
46) 1,1,1-trichloroethane	10.182	97	83594	18.28 ug/L	98
47) cyclohexane	10.297	84	73075	18.09 ug/L	87
48) 1,1-dichloropropene	10.381	75	77530	18.33 ug/L	97
49) iso-butyl alcohol	10.360	43	39308	164.65 ug/L	98
50) carbon tetrachloride	10.412	117	75533	18.46 ug/L	99
51) tert amyl alcohol	10.512	55	16246	84.67 ug/L	93
54) n-butyl alcohol	11.146	56	114622	860.60 ug/L	96
55) 2,2,4-trimethylpentane	10.743	57	210790	17.44 ug/L	97
56) benzene	10.643	78	211959	16.94 ug/L	98
57) tert-amyl methyl ether	10.732	87	38624	16.45 ug/L	98
58) heptane	10.921	71	42943	17.24 ug/L	98
59) isopropyl acetate	10.606	87	12489	17.19 ug/L #	88
60) 1,2-dichloroethane	10.622	62	81337	18.28 ug/L	98
61) trichloroethene	11.388	130	53448	17.15 ug/L	98
62) ethyl acrylate	11.409	55	85888	16.47 ug/L	99
63) 2-nitropropane	12.127	41	17613	16.45 ug/L	97
64) 2-chloroethyl vinyl ether	12.185	63	155457	68.17 ug/L	97
65) methyl methacrylate	11.681	100	15661	16.35 ug/L	98
66) 1,2-dichloropropane	11.639	63	59934	17.53 ug/L	100
67) dibromomethane	11.770	93	40478	17.57 ug/L	98
68) methylcyclohexane	11.660	83	88498	17.46 ug/L	98
69) bromodichloromethane	11.912	83	77618	17.58 ug/L	99
70) epichlorohydrin	12.268	57	34744	80.19 ug/L	98
71) cis-1,3-dichloropropene	12.389	75	91902	16.95 ug/L	97
72) 4-methyl-2-pentanone	12.510	58	110025	68.97 ug/L	95
73) 3-methyl-1-butanol	12.515	55	72226	328.84 ug/L	96
76) toluene	12.782	92	120422	16.76 ug/L	98
77) trans-1,3-dichloropropene	12.945	75	83224	17.35 ug/L	100
78) ethyl methacrylate	12.987	69	76755	17.17 ug/L	95
79) 1,1,2-trichloroethane	13.149	83	46949	17.50 ug/L	98
80) tetrachloroethene	13.364	164	42837	17.21 ug/L	98
81) 1,3-dichloropropane	13.333	76	81258	17.14 ug/L	98
82) 2-hexanone	13.354	58	105759	69.08 ug/L	92
83) butyl acetate	13.453	56	42805	16.31 ug/L	99
84) 3,3-dimethyl-1-butanol	13.516	57	70815	156.23 ug/L	98
85) dibromochloromethane	13.584	129	63334	17.33 ug/L	98
86) 1,2-dibromoethane	13.737	107	58322	16.74 ug/L	98
87) n-butyl ether	14.214	57	214078	16.89 ug/L	99
88) chlorobenzene	14.229	112	138732	16.86 ug/L	99
89) 1,1,1,2-tetrachloroethane	14.287	131	54403	17.59 ug/L	98
90) ethylbenzene	14.308	91	232390	17.32 ug/L	99

7.7.13 7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79224.D
Acq On : 18 May 2017 9:14 am
Operator : BridgetK
Sample : CC3413-20
Misc : MS16090,V4D3424,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 15:55:31 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 12:20:55 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) m,p-xylene	14.418	106	175744	34.31 ug/L	99
92) o-xylene	14.838	106	88449	17.27 ug/L	100
93) styrene	14.838	104	149841	17.01 ug/L	96
94) bromoform	15.063	173	47803	17.45 ug/L	99
95) butyl acrylate	14.670	55	123979	17.33 ug/L	98
96) isopropylbenzene	15.199	105	230312	17.37 ug/L	99
97) cis-1,4-dichloro-2-butene	15.220	88	12104	8.95 ug/L	95
100) bromobenzene	15.572	156	65161	16.09 ug/L	92
101) 1,1,2,2-tetrachloroethane	15.451	83	86091	16.01 ug/L	97
102) trans-1,4-dichloro-2-b...	15.503	53	10994	9.25 ug/L	97
103) 1,2,3-trichloropropane	15.530	110	18767	16.72 ug/L	96
104) n-propylbenzene	15.619	91	282524	16.81 ug/L	99
105) 2-chlorotoluene	15.745	126	57179	16.72 ug/L	90
106) 4-chlorotoluene	15.844	91	168343	16.41 ug/L	98
107) 1,3,5-trimethylbenzene	15.776	105	194445	16.81 ug/L	99
108) tert-butylbenzene	16.138	134	33182	16.21 ug/L	95
109) 1,2,4-trimethylbenzene	16.175	105	197924	16.69 ug/L	98
110) sec-butylbenzene	16.363	105	256568	17.13 ug/L	100
111) 1,3-dichlorobenzene	16.521	146	119965	16.68 ug/L	99
112) p-isopropyltoluene	16.489	119	215805	17.10 ug/L	98
113) 1,4-dichlorobenzene	16.604	146	119344	16.37 ug/L	99
114) benzyl chloride	16.715	91	153914	17.89 ug/L	100
115) 1,2-dichlorobenzene	17.008	146	116781	16.42 ug/L	99
116) n-butylbenzene	16.914	92	116869	17.74 ug/L	98
117) 1,2-dibromo-3-chloropr...	17.805	75	15428	16.99 ug/L	96
118) 1,3,5-trichlorobenzene	18.046	180	104423	16.36 ug/L	97
119) 2-ethylhexyl acrylate	18.744	70	5443	2.52 ug/L	97
120) 1,2,4-trichlorobenzene	18.717	180	88185	16.24 ug/L	99
121) hexachlorobutadiene	18.875	225	48602	17.78 ug/L	98
122) naphthalene	19.011	128	200148	16.25 ug/L	99
123) 1,2,3-trichlorobenzene	19.268	180	77599	16.32 ug/L	99
124) hexachloroethane	17.312	201	40604	16.69 ug/L	99
125) 2-methylnaphthalene	20.243	142	28558	7.87 ug/L	100

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

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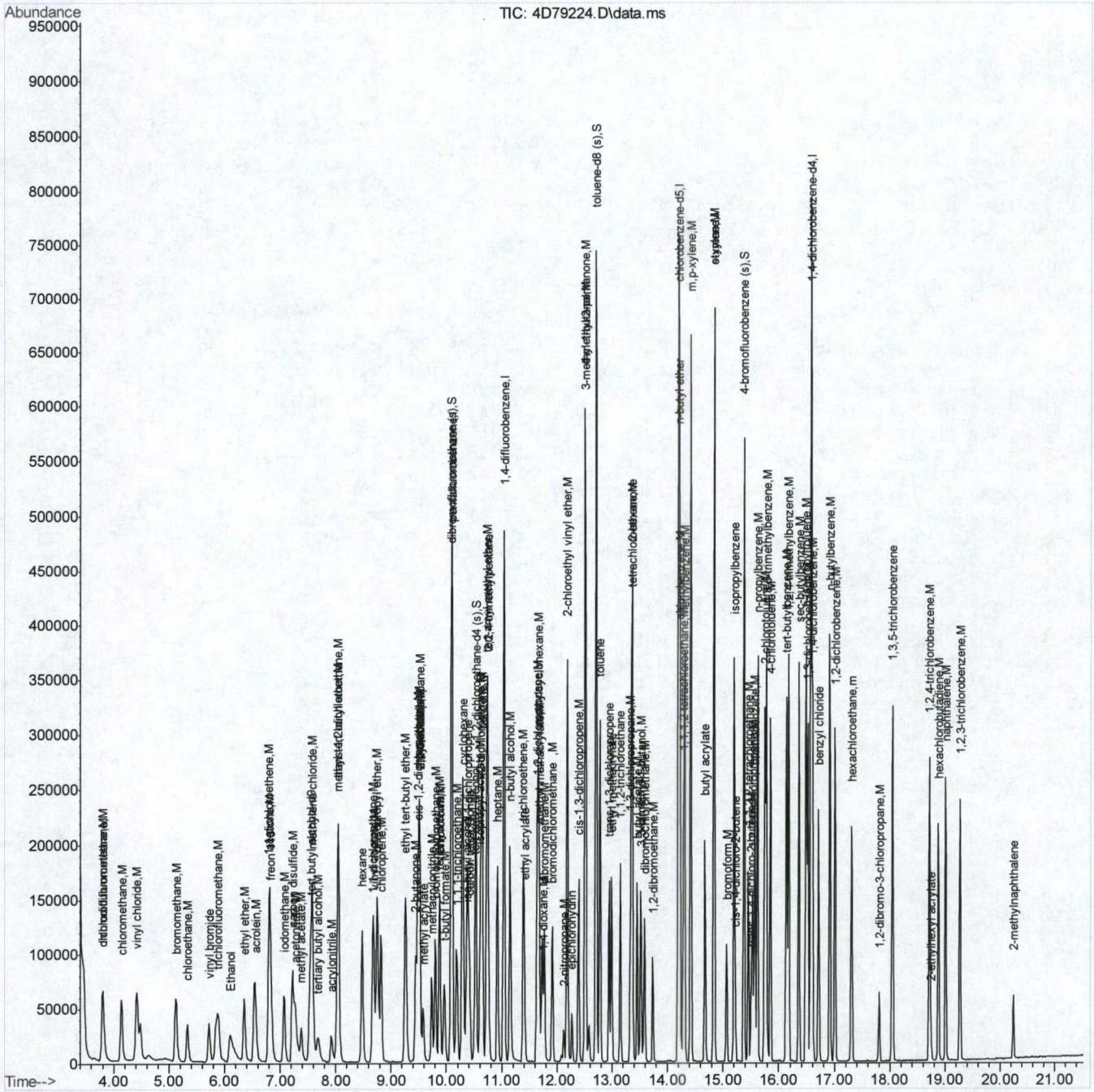
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 4D79224.D
Acq On : 18 May 2017 9:14 am
Operator : BridgetK
Sample : CC3413-20
Misc : MS16090,V4D3424,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 18 15:55:31 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 12:20:55 2017
Response via : Initial Calibration



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SGS

VOLATILE ANALYSIS LOG

Batch ID: V4D3413

Date: 5/9/2017

Print Analyst Name: AUSTIN PARK

Analyst Signature: [signature]

Columns: DB624 (60mx0.25mmx1.4µm)

Method V8260 C.

Initial Cal. Method M4D 3413.

Standard Data

Lot #	Description	Conc.
017-2478-39 (10)	A/B	100-10,000 ppm
017-2478-33 (8)	E	1000ppm.
017-2478-32 (15)	K	200ppm.
017-2478-44 (9)	C	1000ppm.
017-2478-35	I/S.	250/2000ppm.

017-2478-37 (3) EXT. Acetonitrile. 1000ppm.

Standard Data

Lot #	Description	Conc.
017-2478-22 (2)	EXT. A	100-10,000ppm.
017-2478-40 (37)	EXT. B	100-5,000ppm.
017-2478-34 (3)	EXT. E	1000ppm.
017-2478-01 (7)	EXT. K	200ppm.
017-2478-[illegible] (8)	EXT. HEXANE	1000ppm.
017-2478-41 (8)	EXT. C	1000ppm.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 5/10/2017

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	4D78951.	BFB				1							ok	5:57 Pm	
	78952	1C3413-0.2	8260 initial calibration	A Q		2	5						ok	0.2ml STD. A/B+C+E+K / 100ml D.I H2O.	
	78953	1C3413-0.5	✓	A Q		3	5						ok	0.5ul	
	78954	1C3413-1	✓	A Q		4	5						ok	1ul	
	78955	1C3413-2	✓	A Q		5	5						ok	2ul	
	78956	1C3413-5	✓	A Q		6	5						ok	5ul	
	78957	1C3413-10	✓	A Q		7	5						ok	10ul	
	78958	1C3413-20	✓	A Q		8	5						ok	20ul	
	78959	1CC3413-50	✓	A Q		9	5						ok	50ul	
	78960	1C3413-100	✓	A Q		10	5						ok	100ul	
	78961	1C3413-200	✓	A Q		11	5						ok	200ul	
	78962	1B				12					✓		chg		
	78963	1B				13					✓		chg		
	78964	1CV3413-50	✓	A Q		14	5				✓		Hot Head	50ul EXT. Acetonitrile / 100ml D.I H2O	
	78965	1CV3413-50	✓	A Q		15	5				✓		ok	50ul EXT. A+B+E+K+HEXANE, EXT. C / 100ml D.I H2O	
	78966.	1B.				16.					✓		chg.		

[signature] 5/9

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Form: OR001-10

7.8.1

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SGS

VOLATILE ANALYSIS LOG

Batch ID: V4D3423

pH 216315

Date: 5/17/17

Print Analyst Name: Bridget Kelley

Analyst Signature: Bridget Kelley

Columns: DB624 (60m x 0.25mm x 1.4um)

Method: 8260C

Initial Cal. Method: M4D3413

Standard Data

Lot #	Description	Conc.
V017 2478-55.39	A/B mix	100ppm
V017 2478-36.7	C	100ppm
V017 2478-33.59	E	100ppm
V017 2478-57.23	K	300ppm
V017 2478-35	S	200ppm/50ppm

Standard Data

Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/18/2017

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	79196A	BFB					5		1x				ok	7:49 pm	
	4D79196	CC 343350					5		1x				ok	#9T SOLUBRCEK 1100mL	
	79197	TB					5		1x				clip		
	79198	MB					5		1x		✓		ok		
	79199	BS					5		1x		✓		ok	SOLUBRCEK 1100mL	
	79200	JC43354-11MS	16090 SC	W	4		5		1x		✓		ok	SOLUBRCEK 1100mL	✓
	79201	JC43354-11MSD	✓	W	5		5		1x		✓		ok		✓
	6045/1418 79202	TB					5		1x		✓		clip		
	79203	JC43354-19	✓	W	1		5		1x		✓		ok		✓
	79204	JC43354-11	✓	W	3		5		1x		✓		ok		✓
	79205	JC43354-12	✓	W	1		5		1x		✓		ok		✓
	79206	JC43354-13	✓	W	1		5		1x		✓		ok		✓
	79207	JC43354-14	✓	W	1		5		1x		✓		ok		✓
	79208	JC43354-15	✓	W	1		5		1x		✓		HG RR	ccl4 gas lite	✓
	79209	JC43354-16	✓	W	2		5		1x		✓		ok		✓
	79210	JC43354-17	✓	W	2		5		1x		✓		HG RR	ccl4	✓
	79211	JC43354-18	✓	W	2		5		1x		✓		ok		✓

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Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
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Form: OR001-10
Rev. Date: 1/19/16

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SGS

VOLATILE ANALYSIS LOG

Batch ID: V4D3423

Date: 5/17/17

Print Analyst Name: Bridget Kelly

Analyst Signature: Bridget Kelly

Columns: DB624(60mx0.25mmx1.4u)

Method V8260C

Initial Cal. Method M4D3413

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 265	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/18/2017

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	~~Secondary~~ dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	4D79212	JC43354-1	16040 SC	W	2		5		1x		W		ok		✓
	79213	JC43354-2	✓	W	2		5		1x		W		ok		✓
	79214	JC43354-3	✓	W	1		5		1x		W		ok		✓
	79215	JC43354-4	✓	W	2		5		1x		W		ok		✓
	79216	JC43354-5	✓	W	1		5		1x		W		ok		✓
	79217	JC43354-6	✓	W	2		5		1x		W		ok		✓
	79218	JC43354-7	✓	W	2		5		1x		W		ok		✓
	79219	JC43354-8	✓	W	2		5		1x		W		ok		✓
	79220	JC43354-9	✓	W	2		5		1x		W		ok		✓
	79221	JC43354-10	✓	W	2		5		1x		W		ok	7:20am	✓

BKS 5/17/17

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
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Form: OR001-10
Rev. Date: 1/19/16

SGS

VOLATILE ANALYSIS LOG

Batch ID: V4D 3924

Date: 5/18/17 (Thurs)

Print Analyst Name: Bridget Kelley

Analyst Signature: Bridget Kelley

Columns: DB624 (60m x 0.25mm x 1.4µm)

Method: ~~DB624~~ 8260C

Initial Cal. Method: M4D 3413

Standard Data

Lot #	Description	Conc.
VOM-2478	39-30 A/B	100
VOM-2478	56-9 C	100
VOM-2478	33-34 E	100
VOM-2478	35 15	250/2500
VOM-2478	32-08 K	300

Standard Data

Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/19/2017

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	4D79222	~~CC3413-26 IB~~ u 5/18				1									
	79223	~~CC3413-20 IB~~ u 5/18				2								20µl A,B,C,E,K/100mL	
	~~79224~~ 79224	BFB CC3413-20				3					u		ok	9:14 am	
	79225	IB				4					u		clip		
	79226	MB				5					u		ok		
	79227	BS				6					u		ok	50µl A,B,C,E,K/100mL (exb)	
	79228	SB				7					u		clip		
R	79229	JC43354-15	16090 SL	G W	2	8	5		1x		u		ok		✓
K	79230	JC43354-17	✓	G W	1	9	5		1x		u		ok		✓
	79231	MC50372-1	15946 MASTD	G W	1	10	5		1x		u		ok		✓
	79232	MC50372-3	✓	G W	1	11	5		1x		u		ok		✓
	79233	MC50372-4	✓	G W	1	12	5		1x		u		ok		✓
	79234	MC50372-5	✓	G W	1	13	5		1x		u		RR	matrix effects	✓
	79235	JC43232-42	15974 PACLURB, MCAL, MAS	G W	2	14	5/10		10x		u		ok	+4D79194 Tryl, TMA	✓
	79236	MC50372-3ms	15946 MASTD	G W	2	15	5		1x		u		ok	20µl A,B,C,E,K/100mL	✓
	79237	IB				16					u		clip		
	79238	MC50372-dup	15946 MASTD	G W	2	17	5		1x		u		ok		✓

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Form: OR001-10
Rev. Date: 1/19/16

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SGS

VOLATILE ANALYSIS LOG

Batch ID: V4D3424

Date: 5/18/17 (Thurs)

Print Analyst Name: Bridget Kelley

Analyst Signature: Bridget Kelley

Columns: DB624

Method V8260C

Initial Cal. Method M4D3413

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 5/19/2017

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	4D 79234	TD3218-1	15909 SZ2	W W2		18	5		1X		W		95% DL	50XF/D	✓
	79240	TD3216-1	15910 SZ2	W W2.		19	5		1X				RR	clo.	✓

BKS 5/19/17

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-10
Rev. Date: 1/19/16

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7.8.3 7