

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032201.D
 Acq On : 3 Jul 2018 8:33
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:27 PM

Quant Time: Jul 03 13:12:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1417943	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3836032	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3435977m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	2551626	9.72	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	1414514	7.58	ppbv	97
3) Chlorodifluoromethane	3.07	51	1728555	9.98	ppbv	98
4) Chloromethane	3.23	50	915952	9.90	ppbv	100
5) Vinyl Chloride	3.35	62	860545	9.21	ppbv	99
6) Bromomethane	3.57	94	483078	9.08	ppbv	98
7) Chloroethane	3.66	64	303861	9.20	ppbv	99
8) Dichlorotetrafluoroethane	3.28	85	1829498	8.78	ppbv	93
9) Propene	3.09	41	765159	9.48	ppbv	98
10) Heptane	8.34	43	2458386	10.44	ppbv	100
11) Trichlorofluoromethane	4.07	101	1814937	8.98	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1127159	8.38	ppbv	93
13) Ethanol	3.71	45	150726	6.16	ppbv	100
14) Bromoethene	3.85	108	581476	9.08	ppbv	99
15) Acetone	3.96	43	1581920	9.54	ppbv	99
16) 1,3-Butadiene	3.42	39	737525	9.32	ppbv	96
17) tert-Butyl alcohol	4.43	59	375320	3.56	ppbv	98
18) 1,1-Dichloroethene	4.42	96	556346	8.65	ppbv	96
19) Isopropyl Alcohol	4.09	45	1076641	7.82	ppbv #	40
20) Methylene Chloride	4.48	84	491074	8.10	ppbv	98
21) Allyl Chloride	4.55	41	982844	8.68	ppbv	97
22) trans-1,2-Dichloroethene	5.04	96	585080	8.70	ppbv	98
23) Vinyl Acetate	5.23	43	2745554	9.13	ppbv	99
24) 1,1-Dichloroethane	5.17	63	1752058	9.10	ppbv	99
25) Ethyl Acetate	5.85	43	3320680	9.68	ppbv	99
26) Hexane	5.86	57	1529752	9.68	ppbv	97
27) Carbon Disulfide	4.69	76	1377173	8.77	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	2290953	8.21	ppbv	100
29) Chloroform	5.93	83	2276298	9.90	ppbv	99
30) Cyclohexane	7.34	84	1581305	10.62	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	1484483	9.40	ppbv	95
32) 1,1,1-Trichloroethane	6.71	97	2195966	9.11	ppbv	98
34) 2-Butanone	5.40	43	2140364	8.79	ppbv	99
35) Carbon Tetrachloride	7.22	117	2323975	8.85	ppbv	97
36) Benzene	7.10	78	3445315	9.28	ppbv	98
37) 1,2-Dichloroethane	6.50	62	1772569	9.58	ppbv	97
38) Trichloroethene	8.05	130	1243145	8.57	ppbv	93
39) 1,2-Dichloropropane	7.83	63	1489899	10.17	ppbv	96
40) 1,4-Dioxane	8.04	88	479243	8.35	ppbv #	1
41) Tetrahydrofuran	6.23	42	1394385	9.55	ppbv	99
42) Bromodichloromethane	8.01	83	2868878	9.89	ppbv	97
43) Methyl Methacrylate	8.23	69	1554471	10.10	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6252953	9.63	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	1873495	9.82	ppbv	99
46) cis-1,3-Dichloropropene	8.93	75	2119742	9.31	ppbv	99
47) 1,1,2-Trichloroethane	9.71	97	1380905	9.07	ppbv	98
48) Dibromochloromethane	10.55	129	2150779	9.13	ppbv	100
49) Bromoform	13.30	173	1522527	7.72	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	3587821	9.00	ppbv	98
51) 2-Hexanone	10.37	43	3098997	9.37	ppbv #	100
52) Tetrachloroethene	11.47	164	1032360	7.65	ppbv	94
53) Toluene	10.04	91	4069342	9.07	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2056144	8.99	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.38	131	1379159	8.99	ppbv	98
57) Chlorobenzene	12.40	112	2694960	9.06	ppbv	97
58) Ethyl Benzene	12.96	91	5076945	9.17	ppbv	94
59) m/p-Xylene	13.25	91	8008168m	18.04	ppbv	
60) o-Xylene	13.95	91	3837707	8.67	ppbv	95
61) Styrene	13.79	104	3035143	8.37	ppbv	95
62) Isopropylbenzene	14.93	105	5330761	7.83	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	2572812	7.51	ppbv	100
64) n-propylbenzene	15.82	120	1402145	7.96	ppbv	84
65) tert-Butylbenzene	17.01	119	4315999	7.22	ppbv	93
66) Benzyl Chloride	17.26	91	2440788	6.61	ppbv	95
67) sec-Butylbenzene	17.56	105	6380521	7.29	ppbv	98
69) p-Isopropyltoluene	17.91	119	4994606	7.11	ppbv	97
70) n-Butylbenzene	18.81	91	5246935	7.15	ppbv	98
71) 2-Chlorotoluene	15.72	91	4125611	7.87	ppbv	94
72) 4-Ethyltoluene	16.10	105	4621075	8.08	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	4263805	7.92	ppbv	97
74) 1,2,4-Trimethylbenzene	17.03	105	4094672	7.53	ppbv	92
75) 1,3-Dichlorobenzene	17.27	146	2190377	7.08	ppbv	97
76) 1,4-Dichlorobenzene	17.41	146	2211223	7.05	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2083094	6.74	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	1125109	10.46	ppbv	98
79) Naphthalene	22.53	128	3325307	6.73	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2025245	11.36	ppbv	97
81) 1,2,4-Trichlorobenzene	22.25	180	1630905	7.31	ppbv	99

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

