

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031880.D
 Acq On : 19 Apr 2018 15:44
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

sam
 4/23/2018 12:49:47 PM

Quant Time: Apr 20 08:04:32 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1269969	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2943609	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	3059988m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2381406	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.17	85	2227318	8.50	ppbv	100
3) Chlorodifluoromethane	3.10	51	1363039	9.23	ppbv	98
4) Chloromethane	3.26	50	709526	9.41	ppbv	96
5) Vinyl Chloride	3.39	62	751295	8.85	ppbv	99
6) Bromomethane	3.61	94	531226	9.52	ppbv	97
7) Chloroethane	3.70	64	314220	9.28	ppbv	91
8) Dichlorotetrafluoroethane	3.31	85	1873050	8.71	ppbv	99
9) Propene	3.13	41	540753	10.59	ppbv	99
10) Heptane	8.39	43	1751165	10.57	ppbv	98
11) Trichlorofluoromethane	4.11	101	2222434	8.65	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1426410	8.55	ppbv	99
13) Ethanol	3.75	45	142928	8.25	ppbv	100
14) Bromoethene	3.89	108	619392	9.84	ppbv	97
15) Acetone	4.01	43	1663235	8.51	ppbv	98
16) 1,3-Butadiene	3.46	39	670660	9.27	ppbv	88
17) tert-Butyl alcohol	4.47	59	825124	10.22	ppbv	98
18) 1,1-Dichloroethene	4.46	96	658674	9.19	ppbv	96
19) Isopropyl Alcohol	4.13	45	1006328	9.22	ppbv	99
20) Methylene Chloride	4.52	84	606316	8.52	ppbv	95
21) Allyl Chloride	4.59	41	1057334	9.47	ppbv	100
22) trans-1,2-Dichloroethene	5.08	96	697254	9.38	ppbv	98
23) Vinyl Acetate	5.28	43	2013097	10.16	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1801830	9.12	ppbv	100
25) Ethyl Acetate	5.89	43	2979381	9.77	ppbv	100
26) Hexane	5.91	57	1400993	9.86	ppbv	99
27) Carbon Disulfide	4.74	76	1819961	9.86	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1791955	10.25	ppbv	99
29) Chloroform	5.98	83	2186912	9.08	ppbv	99
30) Cyclohexane	7.39	84	1081930	10.66	ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1304191	10.13	ppbv	95
32) 1,1,1-Trichloroethane	6.76	97	2159582	9.20	ppbv	99
34) 2-Butanone	5.45	43	2003152	9.81	ppbv	100
35) Carbon Tetrachloride	7.27	117	2244569	8.78	ppbv	100
36) Benzene	7.14	78	2663396	10.06	ppbv	97
37) 1,2-Dichloroethane	6.55	62	1761523	8.94	ppbv	98
38) Trichloroethene	8.11	130	1032957	9.61	ppbv	95
39) 1,2-Dichloropropane	7.88	63	979952	9.96	ppbv	96
40) 1,4-Dioxane	8.10	88	408872	10.23	ppbv	95
41) Tetrahydrofuran	6.28	42	1018015	10.77	ppbv	99
42) Bromodichloromethane	8.06	83	2277092	9.66	ppbv	99
43) Methyl Methacrylate	8.28	69	981835	10.54	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4501454	9.87	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1437554	11.90	ppbv	99
46) cis-1,3-Dichloropropene	8.98	75	1707018	11.05	ppbv	97
47) 1,1,2-Trichloroethane	9.76	97	1141173	9.76	ppbv	98
48) Dibromochloromethane	10.60	129	1940633	10.27	ppbv	99
49) Bromoform	13.36	173	1500472	10.31	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	2372074	10.15	ppbv	99
51) 2-Hexanone	10.42	43	2294214	11.23	ppbv #	100
52) Tetrachloroethene	11.52	164	994920	9.64	ppbv	98
53) Toluene	10.10	91	3203807	10.85	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1717397	10.11	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.43	131	1298983	9.02	ppbv	99
57) Chlorobenzene	12.45	112	2361629	9.10	ppbv	99
58) Ethyl Benzene	13.02	91	4350208	10.24	ppbv	99
59) m/p-Xylene	13.30	91	7074913m	19.17	ppbv	
60) o-Xylene	14.00	91	3621818	9.82	ppbv	99
61) Styrene	13.84	104	866526	12.34	ppbv	99
62) Isopropylbenzene	14.98	105	4539156	9.58	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	2437522	8.60	ppbv	100
64) n-propylbenzene	15.87	120	1128276	9.80	ppbv	100
65) tert-Butylbenzene	17.06	119	3910677	9.60	ppbv	100
66) Benzyl Chloride	17.31	91	399008	10.87	ppbv	98
67) sec-Butylbenzene	17.61	105	5579120	9.50	ppbv	100
69) p-Isopropyltoluene	17.96	119	4551437	10.00	ppbv	100
70) n-Butylbenzene	18.86	91	4649515	9.81	ppbv	100
71) 2-Chlorotoluene	15.77	91	3400073	9.93	ppbv	100
72) 4-Ethyltoluene	16.15	105	3759693	9.97	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3385946	9.81	ppbv	99
74) 1,2,4-Trimethylbenzene	17.08	105	3571233	9.27	ppbv	99
75) 1,3-Dichlorobenzene	17.31	146	2195008	9.29	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	2202949	9.61	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	2176784	9.36	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	1209865	13.55	ppbv	99
79) Naphthalene	22.59	128	2584693	11.92	ppbv	98
80) Naphthalene, 2-methyl-	25.23	142	713454	16.86	ppbv	98
81) 1,2,4-Trichlorobenzene	22.31	180	1330563	11.06	ppbv	99

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

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