

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071119\
 Data File : VL034017.D
 Acq On : 11 Jul 2019 13:01
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/12/2019 10:46:52 PM

Quant Time: Jul 12 07:24:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1127791	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2968645	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	3415095	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2345120	8.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	80.50%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1651152	7.095	ppbv	97
3) Chlorodifluoromethane	2.99	51	1318705	9.469	ppbv	100
4) Chloromethane	3.15	50	760620	9.498	ppbv	94
5) Vinyl Chloride	3.27	62	848976	9.428	ppbv	97
6) Bromomethane	3.49	94	530120	9.983	ppbv	99
7) Chloroethane	3.58	64	324195	10.074	ppbv	95
8) Dichlorotetrafluoroethane	3.20	85	2148157	9.467	ppbv	99
9) Propene	3.01	41	518328	10.117	ppbv	96
10) Heptane	8.21	43	1471418	11.471	ppbv	99
11) Trichlorofluoromethane	3.98	101	2310351	8.828	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1729688	9.338	ppbv	98
13) Ethanol	3.62	45	129234m	8.120	ppbv	
14) Bromoethene	3.76	108	722203	10.440	ppbv	99
15) Acetone	3.88	43	1562692	8.241	ppbv	98
16) 1,3-Butadiene	3.34	39	694539	10.373	ppbv	99
17) tert-Butyl alcohol	4.33	59	1303820	8.625	ppbv	99
18) 1,1-Dichloroethene	4.33	96	767437	9.302	ppbv	98
19) Isopropyl Alcohol	4.00	45	1011439	7.947	ppbv	99
20) Methylene Chloride	4.38	84	683215	8.262	ppbv	99
21) Allyl Chloride	4.45	41	1141631	9.656	ppbv	99
22) trans-1,2-Dichloroethene	4.93	96	808179	10.280	ppbv	99
23) Vinyl Acetate	5.12	43	2172972	11.482	ppbv	98
24) 1,1-Dichloroethane	5.06	63	1730144	10.315	ppbv	98
25) Ethyl Acetate	5.74	43	2752374	10.613	ppbv	99
26) Hexane	5.74	57	1268116	10.685	ppbv	98
27) Carbon Disulfide	4.59	76	2095423	10.386	ppbv	100
28) Methyl tert-Butyl Ether	5.08	73	2247338	11.182	ppbv	100
29) Chloroform	5.82	83	2194598	9.840	ppbv	96
30) Cyclohexane	7.21	84	1095010	11.947	ppbv	94
31) cis-1,2-Dichloroethene	5.61	61	1287613	11.230	ppbv	98
32) 1,1,1-Trichloroethane	6.58	97	2189470	9.686	ppbv	99
34) 2-Butanone	5.30	43	1698456	10.810	ppbv	99
35) Carbon Tetrachloride	7.10	117	2300679	9.790	ppbv	98
36) Benzene	6.97	78	2570560	11.066	ppbv	97
37) 1,2-Dichloroethane	6.38	62	1679925	9.817	ppbv	100
38) Trichloroethene	7.92	130	1115114	10.789	ppbv	97
39) 1,2-Dichloropropane	7.70	63	911772	10.556	ppbv	95
40) 1,4-Dioxane	7.91	88	375463	9.415	ppbv #	97
41) Tetrahydrofuran	6.11	42	887336	11.516	ppbv	98
42) Bromodichloromethane	7.88	83	2361201	10.284	ppbv	99
43) Methyl Methacrylate	8.10	69	1049017	11.903	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4285332	10.687	ppbv	99
45) t-1,3-Dichloropropene	9.38	75	1473714	12.787	ppbv	99
46) cis-1,3-Dichloropropene	8.80	75	1645702	12.330	ppbv	94
47) 1,1,2-Trichloroethane	9.58	97	1129180	10.398	ppbv	96
48) Dibromochloromethane	10.41	129	2105708	10.161	ppbv	100
49) Bromoform	13.16	173	1987252	11.225	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2572974	11.036	ppbv	100
51) 2-Hexanone	10.23	43	2098415	11.160	ppbv	100
52) Tetrachloroethene	11.33	164	1061056	10.613	ppbv	98
53) Toluene	9.91	91	3193819	12.011	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1761448	10.990	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.24	131	1396284	9.148	ppbv	99
57) Chlorobenzene	12.26	112	2511999	9.239	ppbv	99
58) Ethyl Benzene	12.82	91	4361286	10.620	ppbv	100
59) m/p-Xylene	13.11	91	7530042m	20.250	ppbv	
60) o-Xylene	13.80	91	3624127	9.742	ppbv	99
61) Styrene	13.64	104	2684727	10.905	ppbv	99
62) Isopropylbenzene	14.78	105	4752365	8.310	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	2529288	8.784	ppbv	99
64) n-propylbenzene	15.68	120	1221139	8.235	ppbv	98
65) tert-Butylbenzene	16.87	119	4269655	8.780	ppbv	99
66) Benzyl Chloride	17.11	91	2431953	9.775	ppbv	100
67) sec-Butylbenzene	17.42	105	6027591	8.831	ppbv	99
69) p-Isopropyltoluene	17.77	119	4985553	8.859	ppbv	99
70) n-Butylbenzene	18.67	91	5180760	8.763	ppbv	99
71) 2-Chlorotoluene	15.57	91	3563723	8.515	ppbv	99
72) 4-Ethyltoluene	15.96	105	4111405	8.606	ppbv	100
73) 1,3,5-Trimethylbenzene	16.11	105	4033850	9.075	ppbv	98
74) 1,2,4-Trimethylbenzene	16.88	105	4170138	8.470	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	2479343	7.928	ppbv	100
76) 1,4-Dichlorobenzene	17.26	146	2487633	8.446	ppbv	100
77) 1,2-Dichlorobenzene	17.95	146	2352608	8.124	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	2229276	9.047	ppbv	98
79) Naphthalene	22.35	128	3874595	9.361	ppbv	97
80) Naphthalene, 2-methyl-	25.08	142	1993192	13.233	ppbv	97
81) 1,2,4-Trichlorobenzene	22.08	180	2271989	8.547	ppbv	99

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

