

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070221\
 Data File : VL037267.D
 Acq On : 2 Jul 2021 9:08
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/6/2021 6:44:20 PM

Quant Time: Jul 02 14:52:40 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1322777	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	3895625	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3427564m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2874398	11.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	2280115	9.911	ppbv 98
3) Chlorodifluoromethane	3.00	51	2281531	8.870	ppbv 99
4) Chloromethane	3.15	50	776358	9.057	ppbv 96
5) Vinyl Chloride	3.27	62	849505	9.017	ppbv 100
6) Bromomethane	3.48	94	486190	8.650	ppbv 96
7) Chloroethane	3.57	64	315357	9.364	ppbv 94
8) Dichlorotetrafluoroethane	3.20	85	2199757	9.321	ppbv 98
9) Propene	3.02	41	709828	8.631	ppbv 100
10) Heptane	8.14	43	1867066	9.374	ppbv 99
11) Trichlorofluoromethane	3.96	101	2358209	9.607	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1665431	9.625	ppbv 99
13) Ethanol	3.62	45	84823	6.667	ppbv 54
14) Bromoethene	3.75	108	698537	9.672	ppbv 99
15) Acetone	3.86	43	1155782	7.748	ppbv 98
16) 1,3-Butadiene	3.34	39	839557	9.521	ppbv 100
17) tert-Butyl alcohol	4.30	59	1338677	9.710	ppbv 100
18) 1,1-Dichloroethene	4.30	96	740349	9.655	ppbv 97
19) Isopropyl Alcohol	3.98	45	761397	8.427	ppbv 100
20) Methylene Chloride	4.36	84	657213	7.359	ppbv 98
21) Allyl Chloride	4.42	41	1068159	9.500	ppbv 98
22) trans-1,2-Dichloroethene	4.90	96	748718	9.868	ppbv 99
23) Vinyl Acetate	5.09	43	2107212	9.852	ppbv 98
24) 1,1-Dichloroethane	5.02	63	1694310	9.839	ppbv 99
25) Ethyl Acetate	5.69	43	2987207	9.250	ppbv 99
26) Hexane	5.70	57	1418617	8.692	ppbv 99
27) Carbon Disulfide	4.56	76	1749282	10.939	ppbv 99
28) Methyl tert-Butyl Ether	5.05	73	1890653	9.635	ppbv 99
29) Chloroform	5.77	83	2347559	9.311	ppbv 97
30) Cyclohexane	7.15	84	1245179	9.156	ppbv 99
31) cis-1,2-Dichloroethene	5.56	61	1438397	9.591	ppbv 100
32) 1,1,1-Trichloroethane	6.53	97	2456370	9.105	ppbv 100
34) 2-Butanone	5.26	43	1387816	9.160	ppbv 98
35) Carbon Tetrachloride	7.04	117	2627335	10.055	ppbv 99
36) Benzene	6.91	78	2931453	9.306	ppbv 98
37) 1,2-Dichloroethane	6.32	62	1800918	9.841	ppbv 99
38) Trichloroethene	7.85	130	1266617	8.459	ppbv 98
39) 1,2-Dichloropropane	7.63	63	1115498	9.530	ppbv 99
40) 1,4-Dioxane	7.85	88	293745	9.151	ppbv 82
41) Tetrahydrofuran	6.07	42	682896	9.704	ppbv 99
42) Bromodichloromethane	7.81	83	2524853	10.001	ppbv 99
43) Methyl Methacrylate	8.03	69	1079549	9.923	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	4874418	9.189	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	916955	9.553	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	1184627	9.022	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	1260930	9.442	ppbv	98
48) Dibromochloromethane	10.33	129	2284344	10.836	ppbv	99
49) Bromoform	13.06	173	1872023	11.919	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2067592	9.936	ppbv	99
51) 2-Hexanone	10.16	43	1024510	10.119	ppbv #	100
52) Tetrachloroethene	11.24	164	1209357	8.262	ppbv	97
53) Toluene	9.83	91	3521777	9.359	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1871807	9.753	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	1553414	10.366	ppbv #	61
57) Chlorobenzene	12.17	112	2687668	9.669	ppbv	97
58) Ethyl Benzene	12.73	91	4743962	10.054	ppbv	98
59) m/p-Xylene	13.02	91	8040156m	20.107	ppbv	
60) o-Xylene	13.71	91	3831785	10.064	ppbv	99
61) Styrene	13.55	104	2120343	10.790	ppbv	97
62) Isopropylbenzene	14.69	105	5386843	9.950	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	2600512	10.258	ppbv	100
64) n-propylbenzene	15.58	120	1408044	10.385	ppbv	93
65) tert-Butylbenzene	16.77	119	4906743	10.218	ppbv	99
66) Benzyl Chloride	17.01	91	216505	10.640	ppbv	98
67) sec-Butylbenzene	17.31	105	6527264	10.194	ppbv	99
69) p-Isopropyltoluene	17.67	119	5597281	10.349	ppbv	99
70) n-Butylbenzene	18.57	91	5224222	10.437	ppbv	99
71) 2-Chlorotoluene	15.47	91	3922829	10.363	ppbv	98
72) 4-Ethyltoluene	15.86	105	4515729	10.440	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	4226439	10.109	ppbv	97
74) 1,2,4-Trimethylbenzene	16.78	105	4408497	10.233	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	2611663	9.970	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	2496933	9.544	ppbv	100
77) 1,2-Dichlorobenzene	17.84	146	2506896	9.893	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	1534216m	7.042	ppbv	
79) Naphthalene	22.22	128	2831385	7.883	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	588071	6.243	ppbv	98
81) 1,2,4-Trichlorobenzene	21.95	180	1663976	8.028	ppbv	99

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

