

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL060821\
 Data File : VL037142.D
 Acq On : 8 Jun 2021 21:36
 Operator : SY/AP
 Sample : VL0608ABS02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0608ABS02

Manual Integrations
 APPROVED

SAM
 6/14/2021 11:59:46 AM

Quant Time: Jun 09 03:28:40 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 11
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1345438	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4049196	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3827133m	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2996493	10.42	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2008651	8.800	ppbv	98
3) Chlorodifluoromethane	2.98	51	2671788	10.839	ppbv	96
4) Chloromethane	3.14	50	893142	10.648	ppbv	98
5) Vinyl Chloride	3.25	62	988111	10.778	ppbv	99
6) Bromomethane	3.47	94	572278	11.846	ppbv	99
7) Chloroethane	3.56	64	363463	12.209	ppbv	100
8) Dichlorotetrafluoroethane	3.19	85	2565382	11.971	ppbv	98
9) Propene	3.01	41	839310	9.509	ppbv	99
10) Heptane	8.12	43	2159378	9.817	ppbv	99
11) Trichlorofluoromethane	3.95	101	2623886	12.420	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1833040	12.181	ppbv	97
13) Ethanol	3.61	45	117672m	9.992	ppbv	
14) Bromoethene	3.74	108	783709	11.824	ppbv	99
15) Acetone	3.85	43	1316456	9.553	ppbv	97
16) 1,3-Butadiene	3.32	39	964721	11.268	ppbv	97
17) tert-Butyl alcohol	4.29	59	1329088	10.529	ppbv	99
18) 1,1-Dichloroethene	4.29	96	816384	11.732	ppbv	94
19) Isopropyl Alcohol	3.97	45	807069	10.895	ppbv #	37
20) Methylene Chloride	4.34	84	703487	9.523	ppbv	99
21) Allyl Chloride	4.41	41	1107444	10.652	ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	806360	12.091	ppbv	95
23) Vinyl Acetate	5.07	43	2318831	10.601	ppbv #	98
24) 1,1-Dichloroethane	5.01	63	1825295	11.593	ppbv	100
25) Ethyl Acetate	5.68	43	3356447	10.136	ppbv	100
26) Hexane	5.68	57	1621838	9.587	ppbv	96
27) Carbon Disulfide	4.55	76	1774867	10.410	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2087506	10.294	ppbv	99
29) Chloroform	5.75	83	2713442	11.353	ppbv	97
30) Cyclohexane	7.13	84	1443933	10.044	ppbv	97
31) cis-1,2-Dichloroethene	5.55	61	1658422	10.934	ppbv	95
32) 1,1,1-Trichloroethane	6.51	97	2818320	10.982	ppbv	99
34) 2-Butanone	5.24	43	1573999	10.675	ppbv	99
35) Carbon Tetrachloride	7.02	117	3010053	11.188	ppbv	99
36) Benzene	6.89	78	3400512	9.750	ppbv	98
37) 1,2-Dichloroethane	6.30	62	2038612	11.789	ppbv	98
38) Trichloroethene	7.83	130	1459637	9.783	ppbv	99
39) 1,2-Dichloropropane	7.61	63	1299517	9.672	ppbv	94
40) 1,4-Dioxane	7.83	88	343510m	10.828	ppbv	
41) Tetrahydrofuran	6.05	42	762101	9.075	ppbv	97
42) Bromodichloromethane	7.79	83	2918906	11.158	ppbv	100
43) Methyl Methacrylate	8.01	69	1246164	10.366	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5677641	9.488	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	966340	10.522	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1270202	10.282	ppbv	95
47) 1,1,2-Trichloroethane	9.47	97	1470647	10.458	ppbv	98
48) Dibromochloromethane	10.30	129	2621002	11.511	ppbv	99
49) Bromoform	13.04	173	2140871	11.385	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2454024	10.086	ppbv	98
51) 2-Hexanone	10.14	43	1287225	10.008	ppbv #	96
52) Tetrachloroethene	11.22	164	1426424	10.285	ppbv	97
53) Toluene	9.80	91	4115751	9.917	ppbv	99
54) 1,2-Dibromoethane	10.61	107	2199069	11.000	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1808344	11.230	ppbv #	60
57) Chlorobenzene	12.14	112	3179716	10.715	ppbv	98
58) Ethyl Benzene	12.71	91	5529786	10.237	ppbv	99
59) m/p-Xylene	13.00	91	9314821m	20.862	ppbv	
60) o-Xylene	13.69	91	4453684	10.459	ppbv	99
61) Styrene	13.53	104	2560541	10.673	ppbv	97
62) Isopropylbenzene	14.67	105	6291716	10.281	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	3050854	9.593	ppbv	99
64) n-propylbenzene	15.56	120	1708844	10.822	ppbv	98
65) tert-Butylbenzene	16.74	119	5838174	10.572	ppbv	99
66) Benzyl Chloride	16.99	91	246964	8.060	ppbv	97
67) sec-Butylbenzene	17.29	105	7796191	10.349	ppbv	99
69) p-Isopropyltoluene	17.65	119	6919922	10.683	ppbv	99
70) n-Butylbenzene	18.55	91	6695958	10.882	ppbv	99
71) 2-Chlorotoluene	15.45	91	4631166	10.477	ppbv	98
72) 4-Ethyltoluene	15.84	105	5517446	10.917	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	5082804	10.709	ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	5298164	10.796	ppbv	97
75) 1,3-Dichlorobenzene	17.00	146	3319465	11.077	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	3179390	10.494	ppbv	100
77) 1,2-Dichlorobenzene	17.82	146	3236993	10.780	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	2350800	9.736	ppbv	99
79) Naphthalene	22.19	128	4562404	11.849	ppbv	98
80) Naphthalene, 2-methyl-	24.97	142	744666	8.894	ppbv	94
81) 1,2,4-Trichlorobenzene	21.92	180	2619479	11.160	ppbv	98

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

