

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037384.D
 Acq On : 11 Aug 2021 9:39
 Operator : SY/AP
 Sample : VL0811ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0811ABS01

Manual Integrations
 APPROVED

apatel
 8/12/2021 10:16:52 AM

Quant Time: Aug 12 02:04:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 11
 QLast Update : Wed Aug 11 09:01:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1293073	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3857756	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3551955m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2665051	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1951429	8.349	ppbv	99
3) Chlorodifluoromethane	2.99	51	2085542	8.674	ppbv	99
4) Chloromethane	3.14	50	769817	8.694	ppbv	99
5) Vinyl Chloride	3.25	62	795404	8.792	ppbv	98
6) Bromomethane	3.47	94	440546	8.884	ppbv	93
7) Chloroethane	3.56	64	278926	9.005	ppbv	96
8) Dichlorotetrafluoroethane	3.19	85	1847872	9.063	ppbv	100
9) Propene	3.01	41	691692	8.450	ppbv	99
10) Heptane	8.12	43	1822006	9.411	ppbv	99
11) Trichlorofluoromethane	3.95	101	1747052	8.891	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1216573	8.699	ppbv	98
13) Ethanol	3.61	45	81594m	8.258	ppbv	
14) Bromoethene	3.74	108	571553	8.935	ppbv	98
15) Acetone	3.85	43	934262	7.584	ppbv	98
16) 1,3-Butadiene	3.32	39	757595	8.753	ppbv	97
17) tert-Butyl alcohol	4.29	59	1108571	10.058	ppbv	99
18) 1,1-Dichloroethene	4.29	96	585824	9.245	ppbv	96
19) Isopropyl Alcohol	3.97	45	675536	9.524	ppbv #	33
20) Methylene Chloride	4.34	84	503964	7.533	ppbv	89
21) Allyl Chloride	4.41	41	911054	9.428	ppbv	100
22) trans-1,2-Dichloroethene	4.88	96	560985	9.368	ppbv	96
23) Vinyl Acetate	5.07	43	1848428	9.335	ppbv #	98
24) 1,1-Dichloroethane	5.01	63	1320574	8.480	ppbv	98
25) Ethyl Acetate	5.67	43	2874121	9.112	ppbv	99
26) Hexane	5.68	57	1372860	8.595	ppbv	98
27) Carbon Disulfide	4.55	76	1377710	10.291	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1466361	8.596	ppbv	99
29) Chloroform	5.75	83	2040485	8.909	ppbv	99
30) Cyclohexane	7.12	84	1178750	8.915	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1329176	9.287	ppbv	100
32) 1,1,1-Trichloroethane	6.51	97	2005711	9.032	ppbv	99
34) 2-Butanone	5.24	43	1220563	8.327	ppbv	98
35) Carbon Tetrachloride	7.01	117	2089059	9.710	ppbv	98
36) Benzene	6.89	78	2879786	9.407	ppbv	98
37) 1,2-Dichloroethane	6.30	62	1445221	9.229	ppbv	99
38) Trichloroethene	7.83	130	1130167	8.670	ppbv	93
39) 1,2-Dichloropropane	7.61	63	1080029	9.650	ppbv	97
40) 1,4-Dioxane	7.83	88	275405m	9.235	ppbv	
41) Tetrahydrofuran	6.05	42	654693	9.502	ppbv	98
42) Bromodichloromethane	7.79	83	2152802	9.725	ppbv	100
43) Methyl Methacrylate	8.01	69	1019175	9.566	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4760098	9.322	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	878614	10.984	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1162038	10.739	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	1168493	9.264	ppbv	97
48) Dibromochloromethane	10.30	129	1878901	10.101	ppbv	99
49) Bromoform	13.04	173	1569446	10.738	ppbv	96
50) 4-Methyl-2-Pentanone	8.74	43	1813538	9.470	ppbv	98
51) 2-Hexanone	10.14	43	884534m	10.423	ppbv	
52) Tetrachloroethene	11.22	164	1081928	8.670	ppbv	97
53) Toluene	9.80	91	3366545	9.482	ppbv	99
54) 1,2-Dibromoethane	10.60	107	1687218	9.450	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.12	131	1299483	9.464	ppbv	98
57) Chlorobenzene	12.14	112	2430153	8.865	ppbv	97
58) Ethyl Benzene	12.71	91	4368417	9.214	ppbv	99
59) m/p-Xylene	12.99	91	7374040m	18.065	ppbv	
60) o-Xylene	13.69	91	3421039	9.040	ppbv	99
61) Styrene	13.52	104	1958095	9.988	ppbv	99
62) Isopropylbenzene	14.66	105	4811214	9.026	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	2488459	8.696	ppbv	100
64) n-propylbenzene	15.55	120	1269934	9.387	ppbv	95
65) tert-Butylbenzene	16.73	119	4279259	8.900	ppbv	100
66) Benzyl Chloride	16.98	91	241468m	11.845	ppbv	
67) sec-Butylbenzene	17.28	105	6006404	9.088	ppbv	100
69) p-Isopropyltoluene	17.64	119	5014801	9.394	ppbv	100
70) n-Butylbenzene	18.54	91	4893780	9.757	ppbv	100
71) 2-Chlorotoluene	15.45	91	3621382	9.305	ppbv	100
72) 4-Ethyltoluene	15.83	105	4159664	9.399	ppbv	100
73) 1,3,5-Trimethylbenzene	15.99	105	3799657	9.255	ppbv	95
74) 1,2,4-Trimethylbenzene	16.76	105	3962057	9.504	ppbv	98
75) 1,3-Dichlorobenzene	16.99	146	2359329	9.313	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2252512	9.055	ppbv	98
77) 1,2-Dichlorobenzene	17.81	146	2278585	9.333	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1655364	8.456	ppbv	98
79) Naphthalene	22.18	128	2769543	12.195	ppbv	99
80) Naphthalene, 2-methyl-	24.96	142	516551	11.569	ppbv	95
81) 1,2,4-Trichlorobenzene	21.91	180	1689355	10.847	ppbv	99

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

