

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052021\
 Data File : VL037021.D
 Acq On : 20 May 2021 12:28
 Operator : SY/AP
 Sample : VL0520ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0520ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/24/2021 3:23:40 PM

Quant Time: May 21 01:48:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 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	5.64	49	1175991	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.14	114	3519701	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.05	117	3356537m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.37	95	2495312	9.90	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1741631	8.730	ppbv 99
3) Chlorodifluoromethane	2.96	51	2094009	9.720	ppbv 99
4) Chloromethane	3.11	50	731800	9.982	ppbv 95
5) Vinyl Chloride	3.23	62	795105	9.922	ppbv 99
6) Bromomethane	3.45	94	424147	10.045	ppbv 99
7) Chloroethane	3.53	64	275310	10.581	ppbv 100
8) Dichlorotetrafluoroethane	3.16	85	1893209	10.107	ppbv 98
9) Propene	2.98	41	724562	9.392	ppbv 100
10) Heptane	8.09	43	1777099	9.243	ppbv 100
11) Trichlorofluoromethane	3.92	101	1948590	10.552	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1375010	10.454	ppbv 99
13) Ethanol	3.58	45	83033	8.067	ppbv 99
14) Bromoethene	3.71	108	600894	10.372	ppbv 98
15) Acetone	3.82	43	1025222	8.511	ppbv 98
16) 1,3-Butadiene	3.30	39	756811	10.113	ppbv 99
17) tert-Butyl alcohol	4.26	59	1001155	9.074	ppbv 99
18) 1,1-Dichloroethene	4.26	96	621801	10.223	ppbv 95
19) Isopropyl Alcohol	3.94	45	613773	9.479	ppbv 94
20) Methylene Chloride	4.31	84	541819	8.391	ppbv 97
21) Allyl Chloride	4.38	41	930366	10.239	ppbv 99
22) trans-1,2-Dichloroethene	4.85	96	616249	10.572	ppbv 99
23) Vinyl Acetate	5.04	43	1781921	9.320	ppbv 98
24) 1,1-Dichloroethane	4.98	63	1323468	9.617	ppbv 99
25) Ethyl Acetate	5.65	43	2730761	9.434	ppbv 100
26) Hexane	5.65	57	1346816	9.108	ppbv 99
27) Carbon Disulfide	4.52	76	1464902	9.830	ppbv 100
28) Methyl tert-Butyl Ether	5.00	73	1612032	9.095	ppbv 99
29) Chloroform	5.72	83	2095070	10.029	ppbv 98
30) Cyclohexane	7.09	84	1169707	9.309	ppbv 99
31) cis-1,2-Dichloroethene	5.52	61	1321321	9.967	ppbv 98
32) 1,1,1-Trichloroethane	6.47	97	2142983	9.553	ppbv 99
34) 2-Butanone	5.21	43	1293478	10.093	ppbv 100
35) Carbon Tetrachloride	6.98	117	2234340	9.554	ppbv 99
36) Benzene	6.85	78	2794876	9.219	ppbv 98
37) 1,2-Dichloroethane	6.27	62	1548301	10.301	ppbv 100
38) Trichloroethene	7.80	130	1161387	8.955	ppbv 98
39) 1,2-Dichloropropane	7.57	63	1079742	9.245	ppbv 96
40) 1,4-Dioxane	7.80	88	237278	8.605	ppbv # 100
41) Tetrahydrofuran	6.02	42	672310	9.211	ppbv 99
42) Bromodichloromethane	7.75	83	2259769	9.938	ppbv 99
43) Methyl Methacrylate	7.98	69	996921	9.541	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.83	57	4634007	8.909	ppbv	99
45) t-1,3-Dichloropropene	9.24	75	770126	9.647	ppbv	100
46) cis-1,3-Dichloropropene	8.67	75	1019717	9.497	ppbv	99
47) 1,1,2-Trichloroethane	9.44	97	1170844	9.579	ppbv	98
48) Dibromochloromethane	10.27	129	2026775	10.240	ppbv	100
49) Bromoform	13.00	173	1711461	10.471	ppbv	99
50) 4-Methyl-2-Pentanone	8.71	43	2011400	9.511	ppbv	99
51) 2-Hexanone	10.10	43	1095713	9.800	ppbv	97
52) Tetrachloroethene	11.18	164	1127997	9.357	ppbv	97
53) Toluene	9.77	91	3342903	9.267	ppbv	99
54) 1,2-Dibromoethane	10.57	107	1732218	9.968	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.09	131	1378179	9.758	ppbv	95
57) Chlorobenzene	12.11	112	2482347	9.538	ppbv	98
58) Ethyl Benzene	12.67	91	4469305	9.434	ppbv	100
59) m/p-Xylene	12.96	91	7437028m	18.992	ppbv	
60) o-Xylene	13.65	91	3519854	9.425	ppbv	99
61) Styrene	13.49	104	2079715	9.884	ppbv	98
62) Isopropylbenzene	14.63	105	4980681	9.279	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.64	83	2400104	8.605	ppbv	99
64) n-propylbenzene	15.52	120	1358077	9.807	ppbv	98
65) tert-Butylbenzene	16.71	119	4551307	9.397	ppbv	99
66) Benzyl Chloride	16.95	91	168616	6.275	ppbv	99
67) sec-Butylbenzene	17.26	105	6191277	9.370	ppbv	100
69) p-Isopropyltoluene	17.62	119	5461996	9.615	ppbv	99
70) n-Butylbenzene	18.51	91	5297808	9.817	ppbv	99
71) 2-Chlorotoluene	15.41	91	3679109	9.490	ppbv	99
72) 4-Ethyltoluene	15.80	105	4348900	9.811	ppbv	99
73) 1,3,5-Trimethylbenzene	15.96	105	3997025	9.602	ppbv	99
74) 1,2,4-Trimethylbenzene	16.73	105	4177076	9.705	ppbv	98
75) 1,3-Dichlorobenzene	16.95	146	2564864	9.759	ppbv	100
76) 1,4-Dichlorobenzene	17.10	146	2502893	9.419	ppbv	100
77) 1,2-Dichlorobenzene	17.78	146	2507097	9.520	ppbv	99
78) Hexachloro-1,3-Butadiene	23.34	225	1854074	8.756	ppbv	100
79) Naphthalene	22.15	128	3729170	11.043	ppbv	99
80) Naphthalene, 2-methyl-	24.94	142	875365	11.921	ppbv	99
81) 1,2,4-Trichlorobenzene	21.88	180	2105149	10.226	ppbv	97

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

