

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037242.D
 Acq On : 23 Jun 2021 11:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 6/24/2021 4:34:20 PM

Quant Time: Jun 24 05:32:04 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	5.65	49	1530013	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4499863	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	4347614m	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3222910	9.78	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2418050	9.087	ppbv	97
3) Chlorodifluoromethane	2.98	51	2537024	8.528	ppbv	99
4) Chloromethane	3.13	50	804354	8.112	ppbv	97
5) Vinyl Chloride	3.25	62	897310	8.234	ppbv	97
6) Bromomethane	3.46	94	492421	7.575	ppbv	100
7) Chloroethane	3.55	64	328560	8.435	ppbv	99
8) Dichlorotetrafluoroethane	3.18	85	2277182	8.342	ppbv	98
9) Propene	3.00	41	753002	7.916	ppbv	100
10) Heptane	8.11	43	1981350	8.600	ppbv	99
11) Trichlorofluoromethane	3.94	101	2343021	8.252	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1712369	8.556	ppbv	100
13) Ethanol	3.60	45	110610m	7.517	ppbv	
14) Bromoethene	3.73	108	695984	8.332	ppbv	98
15) Acetone	3.84	43	1210024	7.013	ppbv	98
16) 1,3-Butadiene	3.32	39	925985	9.078	ppbv	93
17) tert-Butyl alcohol	4.28	59	1313506	8.237	ppbv	99
18) 1,1-Dichloroethene	4.28	96	765147	8.627	ppbv	97
19) Isopropyl Alcohol	3.96	45	783945	7.502	ppbv	99
20) Methylene Chloride	4.33	84	640386	6.200	ppbv	96
21) Allyl Chloride	4.40	41	1011197	7.775	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	743339	8.470	ppbv	97
23) Vinyl Acetate	5.06	43	2081980	8.416	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1557456	7.819	ppbv	99
25) Ethyl Acetate	5.66	43	2997100	8.024	ppbv	99
26) Hexane	5.67	57	1467078	7.771	ppbv	98
27) Carbon Disulfide	4.54	76	1691988	9.148	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1597955	7.041	ppbv	99
29) Chloroform	5.74	83	2446043	8.388	ppbv	97
30) Cyclohexane	7.11	84	1287687	8.186	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1474525	8.500	ppbv	97
32) 1,1,1-Trichloroethane	6.50	97	2520834	8.078	ppbv	100
34) 2-Butanone	5.23	43	1395777	7.976	ppbv	100
35) Carbon Tetrachloride	7.01	117	2667327	8.838	ppbv	99
36) Benzene	6.88	78	3072175	8.443	ppbv	98
37) 1,2-Dichloroethane	6.29	62	1854216	8.772	ppbv	99
38) Trichloroethene	7.82	130	1347982	7.793	ppbv	99
39) 1,2-Dichloropropane	7.60	63	1191674	8.813	ppbv	97
40) 1,4-Dioxane	7.82	88	308959	8.333	ppbv	83
41) Tetrahydrofuran	6.04	42	657609	8.090	ppbv	98
42) Bromodichloromethane	7.78	83	2604780	8.932	ppbv	98
43) Methyl Methacrylate	8.00	69	1165627	9.276	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	5090642	8.308	ppbv	98
45) t-1,3-Dichloropropene	9.26	75	792518	7.148	ppbv	99
46) cis-1,3-Dichloropropene	8.69	75	1096748	7.231	ppbv	97
47) 1,1,2-Trichloroethane	9.46	97	1336706	8.665	ppbv	99
48) Dibromochloromethane	10.29	129	2351808	9.658	ppbv	100
49) Bromoform	13.02	173	1995961	11.002	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	2096052	8.720	ppbv	100
51) 2-Hexanone	10.12	43	1086336	9.289	ppbv	99
52) Tetrachloroethene	11.21	164	1294085	7.654	ppbv	98
53) Toluene	9.79	91	3695378	8.502	ppbv	100
54) 1,2-Dibromoethane	10.59	107	1959182	8.837	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.11	131	1677545	8.825	ppbv #	57
57) Chlorobenzene	12.13	112	2910959	8.256	ppbv	97
58) Ethyl Benzene	12.70	91	5057821	8.451	ppbv	100
59) m/p-Xylene	12.98	91	8637428m	17.030	ppbv	
60) o-Xylene	13.68	91	4086059	8.461	ppbv	100
61) Styrene	13.51	104	2225818	8.930	ppbv	98
62) Isopropylbenzene	14.65	105	5872626	8.551	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	2854340	8.876	ppbv	100
64) n-propylbenzene	15.55	120	1582572	9.202	ppbv	98
65) tert-Butylbenzene	16.73	119	5339495	8.766	ppbv	99
66) Benzyl Chloride	16.97	91	95630	3.705	ppbv #	87
67) sec-Butylbenzene	17.28	105	7162981	8.819	ppbv	99
69) p-Isopropyltoluene	17.64	119	6190896	9.024	ppbv	99
70) n-Butylbenzene	18.54	91	5870618	9.246	ppbv	99
71) 2-Chlorotoluene	15.44	91	4348183	9.056	ppbv	99
72) 4-Ethyltoluene	15.82	105	4963808	9.047	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	4483249	8.454	ppbv	98
74) 1,2,4-Trimethylbenzene	16.75	105	4763935	8.718	ppbv	99
75) 1,3-Dichlorobenzene	16.98	146	2983783	8.981	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	2873736	8.660	ppbv	100
77) 1,2-Dichlorobenzene	17.80	146	2913865	9.066	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	1995161	7.220	ppbv	100
79) Naphthalene	22.17	128	3731808	8.191	ppbv	99
80) Naphthalene, 2-methyl-	24.96	142	882647	7.387	ppbv	93
81) 1,2,4-Trichlorobenzene	21.91	180	2178384	8.286	ppbv	99

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

