

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL063020\
 Data File : VL035141.D
 Acq On : 1 Jul 2020 1:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/2/2020 5:01:02 PM

Quant Time: Jul 01 05:24:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 2020
 QLast Update : Sat Jun 20 02:10:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1187686	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	2841122	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.13	117	2958741m	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2308564	9.39	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	1797221	11.206	ppbv 98
3) Chlorodifluoromethane	2.95	51	1257435	9.584	ppbv 100
4) Chloromethane	3.11	50	709580	9.648	ppbv 99
5) Vinyl Chloride	3.22	62	711579	10.174	ppbv 99
6) Bromomethane	3.44	94	452016	10.408	ppbv 93
7) Chloroethane	3.53	64	273358	10.365	ppbv 97
8) Dichlorotetrafluoroethane	3.15	85	1681330	9.778	ppbv 100
9) Propene	2.97	41	517005	9.951	ppbv 99
10) Heptane	8.14	43	1406059	10.443	ppbv 99
11) Trichlorofluoromethane	3.92	101	1757595	10.259	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1254411	10.588	ppbv 100
13) Ethanol	3.57	45	136174	6.938	ppbv 96
14) Bromoethene	3.71	108	532756	10.432	ppbv 96
15) Acetone	3.83	43	1336009	9.304	ppbv 99
16) 1,3-Butadiene	3.29	39	649676	10.316	ppbv 100
17) tert-Butyl alcohol	4.27	59	1404414	11.036	ppbv 99
18) 1,1-Dichloroethene	4.27	96	577346	10.805	ppbv 96
19) Isopropyl Alcohol	3.94	45	958232	10.277	ppbv 99
20) Methylene Chloride	4.33	84	515586	8.872	ppbv 92
21) Allyl Chloride	4.39	41	913358	10.703	ppbv 97
22) trans-1,2-Dichloroethene	4.87	96	562609	11.254	ppbv 98
23) Vinyl Acetate	5.07	43	1860880	10.676	ppbv 99
24) 1,1-Dichloroethane	5.00	63	1478540	10.062	ppbv 99
25) Ethyl Acetate	5.67	43	2509381	9.683	ppbv 100
26) Hexane	5.68	57	1136095	9.724	ppbv 98
27) Carbon Disulfide	4.53	76	1503927	12.438	ppbv 98
28) Methyl tert-Butyl Ether	5.02	73	1723994	10.502	ppbv 99
29) Chloroform	5.75	83	1767670	9.668	ppbv 99
30) Cyclohexane	7.14	84	916588	10.931	ppbv 100
31) cis-1,2-Dichloroethene	5.55	61	1130722	10.498	ppbv 96
32) 1,1,1-Trichloroethane	6.52	97	1713566	10.105	ppbv 100
34) 2-Butanone	5.24	43	1582484	9.699	ppbv 100
35) Carbon Tetrachloride	7.03	117	1768850	10.381	ppbv 96
36) Benzene	6.90	78	2196353	9.983	ppbv 97
37) 1,2-Dichloroethane	6.31	62	1393728	10.024	ppbv 100
38) Trichloroethene	7.85	130	875187	10.242	ppbv 98
39) 1,2-Dichloropropane	7.63	63	862987	10.029	ppbv 98
40) 1,4-Dioxane	7.84	88	341806	10.071	ppbv # 90
41) Tetrahydrofuran	6.05	42	875520	10.506	ppbv 99
42) Bromodichloromethane	7.81	83	1855219	10.302	ppbv 96
43) Methyl Methacrylate	8.03	69	1010770	10.854	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3790574	9.872	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1112290	12.273	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1302868	11.572	ppbv	95
47) 1,1,2-Trichloroethane	9.50	97	908946	9.679	ppbv	93
48) Dibromochloromethane	10.34	129	1528558	10.918	ppbv	99
49) Bromoform	13.09	173	1274382	10.715	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2365500	10.204	ppbv	100
51) 2-Hexanone	10.16	43	1883716	10.376	ppbv #	99
52) Tetrachloroethene	11.26	164	773558	9.979	ppbv	96
53) Toluene	9.83	91	2537201	10.812	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1360458	9.784	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.16	131	1151555	9.510	ppbv #	60
57) Chlorobenzene	12.19	112	1916092	8.801	ppbv	99
58) Ethyl Benzene	12.75	91	3379316	10.165	ppbv	98
59) m/p-Xylene	13.04	91	5560030m	18.872	ppbv	
60) o-Xylene	13.73	91	2766777	9.433	ppbv	98
61) Styrene	13.57	104	1938089	10.501	ppbv	99
62) Isopropylbenzene	14.71	105	4077287	9.315	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	1910814	8.044	ppbv	99
64) n-propylbenzene	15.61	120	1066749	9.551	ppbv	97
65) tert-Butylbenzene	16.80	119	3500684	9.341	ppbv	99
66) Benzyl Chloride	17.04	91	1314276	11.352	ppbv	99
67) sec-Butylbenzene	17.34	105	5013050	9.332	ppbv	100
69) p-Isopropyltoluene	17.70	119	4211306	9.829	ppbv	100
70) n-Butylbenzene	18.60	91	4472623	9.691	ppbv	99
71) 2-Chlorotoluene	15.50	91	3113052	9.410	ppbv	100
72) 4-Ethyltoluene	15.88	105	3196586	9.797	ppbv	100
73) 1,3,5-Trimethylbenzene	16.04	105	2999095	9.724	ppbv	100
74) 1,2,4-Trimethylbenzene	16.82	105	3164483	9.193	ppbv #	89
75) 1,3-Dichlorobenzene	17.05	146	1842175	8.967	ppbv	100
76) 1,4-Dichlorobenzene	17.19	146	1812104	9.221	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1764979	9.389	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	1700865	10.066	ppbv	100
79) Naphthalene	22.27	128	3766794	12.481	ppbv	98
80) Naphthalene, 2-methyl-	25.02	142	1396006	12.098	ppbv	100
81) 1,2,4-Trichlorobenzene	22.00	180	1974856	11.343	ppbv	99

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

