

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070620\
 Data File : VL035166.D
 Acq On : 7 Jul 2020 6:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 12:01:43 PM

Quant Time: Jul 07 07:06:16 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	5.65	49	1032116	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2479522	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2459988	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1979335	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.00	85	1315493	9.439	ppbv 100
3) Chlorodifluoromethane	2.94	51	1168445	10.248	ppbv 100
4) Chloromethane	3.09	50	676581	10.586	ppbv 100
5) Vinyl Chloride	3.21	62	662410	10.898	ppbv 98
6) Bromomethane	3.43	94	403017	10.678	ppbv 93
7) Chloroethane	3.51	64	252944	11.036	ppbv 95
8) Dichlorotetrafluoroethane	3.14	85	1533375	10.261	ppbv 100
9) Propene	2.96	41	503222	11.146	ppbv 99
10) Heptane	8.12	43	1331264	11.378	ppbv 98
11) Trichlorofluoromethane	3.91	101	1555615	10.448	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1110482	10.786	ppbv 99
13) Ethanol	3.56	45	127067	7.450	ppbv 97
14) Bromoethene	3.70	108	500819	11.285	ppbv 98
15) Acetone	3.81	43	1222835	9.800	ppbv 99
16) 1,3-Butadiene	3.28	39	609430	11.135	ppbv 99
17) tert-Butyl alcohol	4.25	59	1329408	12.021	ppbv 100
18) 1,1-Dichloroethene	4.25	96	509478	10.972	ppbv 93
19) Isopropyl Alcohol	3.93	45	890808	10.994	ppbv # 98
20) Methylene Chloride	4.31	84	458614	9.081	ppbv 95
21) Allyl Chloride	4.38	41	876329	11.817	ppbv 100
22) trans-1,2-Dichloroethene	4.86	96	504713	11.618	ppbv 94
23) Vinyl Acetate	5.05	43	1818934	12.009	ppbv 99
24) 1,1-Dichloroethane	4.98	63	1348361	10.559	ppbv 100
25) Ethyl Acetate	5.65	43	2353758	10.452	ppbv 100
26) Hexane	5.67	57	1049164	10.333	ppbv 99
27) Carbon Disulfide	4.52	76	1426813	13.579	ppbv 98
28) Methyl tert-Butyl Ether	5.01	73	1660891	11.642	ppbv 99
29) Chloroform	5.74	83	1616093	10.171	ppbv 99
30) Cyclohexane	7.12	84	863966	11.856	ppbv 99
31) cis-1,2-Dichloroethene	5.53	61	1056836	11.292	ppbv 99
32) 1,1,1-Trichloroethane	6.50	97	1589743	10.787	ppbv 100
34) 2-Butanone	5.22	43	1504397	10.565	ppbv 100
35) Carbon Tetrachloride	7.01	117	1623602	10.918	ppbv 99
36) Benzene	6.89	78	2070383	10.783	ppbv 99
37) 1,2-Dichloroethane	6.30	62	1253182	10.327	ppbv 99
38) Trichloroethene	7.83	130	782798	10.497	ppbv 97
39) 1,2-Dichloropropane	7.61	63	812375	10.818	ppbv 97
40) 1,4-Dioxane	7.83	88	292848	9.887	ppbv # 97
41) Tetrahydrofuran	6.03	42	837555	11.516	ppbv 98
42) Bromodichloromethane	7.79	83	1735372	11.042	ppbv 99
43) Methyl Methacrylate	8.01	69	935478	11.511	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3503534	10.455	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1042317	13.179	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1241778	12.638	ppbv	95
47) 1,1,2-Trichloroethane	9.48	97	845748	10.319	ppbv	98
48) Dibromochloromethane	10.32	129	1426789	11.677	ppbv	99
49) Bromoform	13.06	173	1191322	11.478	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2191581	10.833	ppbv	100
51) 2-Hexanone	10.14	43	1758462	11.099	ppbv #	100
52) Tetrachloroethene	11.24	164	727077	10.747	ppbv	90
53) Toluene	9.82	91	2384519	11.643	ppbv	98
54) 1,2-Dibromoethane	10.63	107	1270288	10.468	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.15	131	1067043m	10.599	ppbv	
57) Chlorobenzene	12.17	112	1753437	9.687	ppbv	98
58) Ethyl Benzene	12.73	91	3122827	11.298	ppbv	98
59) m/p-Xylene	13.02	91	5136545m	20.970	ppbv	
60) o-Xylene	13.72	91	2533679	10.390	ppbv	99
61) Styrene	13.55	104	1777837	11.585	ppbv	100
62) Isopropylbenzene	14.69	105	3727345	10.243	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	1719421	8.705	ppbv	100
64) n-propylbenzene	15.59	120	976235	10.512	ppbv	98
65) tert-Butylbenzene	16.77	119	3214698m	10.317	ppbv	
66) Benzyl Chloride	17.02	91	1264434	13.136	ppbv	100
67) sec-Butylbenzene	17.32	105	4598600	10.296	ppbv	99
69) p-Isopropyltoluene	17.68	119	3818266	10.718	ppbv	99
70) n-Butylbenzene	18.58	91	4090533	10.660	ppbv	99
71) 2-Chlorotoluene	15.48	91	2863146	10.409	ppbv	99
72) 4-Ethyltoluene	15.87	105	2960376	10.913	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	2762855	10.774	ppbv	97
74) 1,2,4-Trimethylbenzene	16.79	105	2875349	10.046	ppbv	93
75) 1,3-Dichlorobenzene	17.03	146	1652251	9.674	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	1652367	10.113	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	1617102	10.347	ppbv	100
78) Hexachloro-1,3-Butadiene	23.41	225	1626830	11.580	ppbv	97
79) Naphthalene	22.25	128	3486279	13.894	ppbv	98
80) Naphthalene, 2-methyl-	25.00	142	1355221	14.125	ppbv	98
81) 1,2,4-Trichlorobenzene	21.98	180	1834942	12.676	ppbv	99

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

