

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081020\
 Data File : VL035371.D
 Acq On : 10 Aug 2020 9:56
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 8/12/2020 3:58:18 PM

Quant Time: Aug 11 04:39:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 0
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1344042	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3294445	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3323040	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2718144	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1426221	7.978	ppbv 98
3) Chlorodifluoromethane	2.94	51	1423365	9.277	ppbv 100
4) Chloromethane	3.09	50	798642	9.194	ppbv 99
5) Vinyl Chloride	3.21	62	813696	9.107	ppbv 94
6) Bromomethane	3.43	94	535811	9.789	ppbv 92
7) Chloroethane	3.51	64	313415	9.445	ppbv 100
8) Dichlorotetrafluoroethane	3.14	85	1978815	9.365	ppbv 98
9) Propene	2.96	41	535993	9.804	ppbv 99
10) Heptane	8.13	43	1586088	11.358	ppbv 100
11) Trichlorofluoromethane	3.91	101	2171971	9.377	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1568543	9.475	ppbv 97
13) Ethanol	3.56	45	76947	4.081	ppbv # 51
14) Bromoethene	3.70	108	652097	9.823	ppbv 99
15) Acetone	3.81	43	1618274	8.479	ppbv 100
16) 1,3-Butadiene	3.28	39	751782	10.233	ppbv 97
17) tert-Butyl alcohol	4.25	59	1792424	10.232	ppbv 100
18) 1,1-Dichloroethene	4.26	96	702435	9.881	ppbv 90
19) Isopropyl Alcohol	3.93	45	1153722	9.536	ppbv 99
20) Methylene Chloride	4.31	84	628559	8.076	ppbv 96
21) Allyl Chloride	4.38	41	1106927	10.122	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	676524	9.815	ppbv 98
23) Vinyl Acetate	5.05	43	1964490	10.734	ppbv 99
24) 1,1-Dichloroethane	4.99	63	1653761	9.615	ppbv 98
25) Ethyl Acetate	5.66	43	2898615	9.995	ppbv 99
26) Hexane	5.67	57	1269185	10.089	ppbv 97
27) Carbon Disulfide	4.52	76	1834198	10.427	ppbv 98
28) Methyl tert-Butyl Ether	5.01	73	1972029	10.782	ppbv 100
29) Chloroform	5.74	83	2090264	9.638	ppbv 100
30) Cyclohexane	7.12	84	1085783	11.383	ppbv 99
31) cis-1,2-Dichloroethene	5.53	61	1253490	11.209	ppbv 98
32) 1,1,1-Trichloroethane	6.50	97	2085417	9.149	ppbv 100
34) 2-Butanone	5.22	43	1728579	10.656	ppbv 100
35) Carbon Tetrachloride	7.01	117	2238368	9.873	ppbv 97
36) Benzene	6.89	78	2483186	11.163	ppbv 98
37) 1,2-Dichloroethane	6.30	62	1635759	10.525	ppbv 100
38) Trichloroethene	7.84	130	1102653	10.745	ppbv 97
39) 1,2-Dichloropropane	7.61	63	966380	10.731	ppbv 98
40) 1,4-Dioxane	7.83	88	399328	10.354	ppbv 89
41) Tetrahydrofuran	6.03	42	920543	11.564	ppbv 99
42) Bromodichloromethane	7.80	83	2258941	10.824	ppbv 97
43) Methyl Methacrylate	8.02	69	1146942	12.255	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.87	57	4382618	11.089	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1290539	13.293	ppbv	96
46) cis-1,3-Dichloropropene	8.71	75	1507566	12.858	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	1110187	10.253	ppbv	98
48) Dibromochloromethane	10.32	129	1984444	11.188	ppbv	100
49) Bromoform	13.07	173	1833352	11.343	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2771849	11.192	ppbv	99
51) 2-Hexanone	10.14	43	2269218	11.687	ppbv #	99
52) Tetrachloroethene	11.24	164	963913	10.929	ppbv	96
53) Toluene	9.82	91	3024850	12.499	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1739596	11.198	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.15	131	1532207	9.768	ppbv	95
57) Chlorobenzene	12.17	112	2500435	9.993	ppbv	98
58) Ethyl Benzene	12.73	91	4144948	11.987	ppbv	100
59) m/p-Xylene	13.02	91	7154233m	22.220	ppbv	
60) o-Xylene	13.72	91	3569128	11.171	ppbv	99
61) Styrene	13.55	104	2528201	12.956	ppbv	99
62) Isopropylbenzene	14.70	105	5314866	11.048	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	2582036	9.473	ppbv	99
64) n-propylbenzene	15.59	120	1460432	11.296	ppbv	98
65) tert-Butylbenzene	16.78	119	4862399	11.037	ppbv	99
66) Benzyl Chloride	17.02	91	2060402	11.817	ppbv	99
67) sec-Butylbenzene	17.33	105	6775063	10.873	ppbv	99
69) p-Isopropyltoluene	17.69	119	5790203	11.398	ppbv	99
70) n-Butylbenzene	18.59	91	5983371	11.011	ppbv	100
71) 2-Chlorotoluene	15.49	91	4103193	11.643	ppbv	99
72) 4-Ethyltoluene	15.87	105	4295153	11.791	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	4056388	11.604	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	4325017	10.826	ppbv	95
75) 1,3-Dichlorobenzene	17.04	146	2563935	9.810	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	2570550	10.620	ppbv	100
77) 1,2-Dichlorobenzene	17.85	146	2496694	10.351	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	2048174	9.981	ppbv	99
79) Naphthalene	22.25	128	4120983	13.411	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	1592151	22.777	ppbv	98
81) 1,2,4-Trichlorobenzene	21.98	180	2308049	11.918	ppbv	99

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

