

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035625.D
 Acq On : 15 Sep 2020 8:52
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 5:41:16 PM

Quant Time: Sep 15 10:21:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	906737	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	3977130	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	4197713m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2965493	9.95	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	1598812	10.175	ppbv 100
3) Chlorodifluoromethane	2.97	51	1012800	10.099	ppbv 99
4) Chloromethane	3.12	50	535962	9.976	ppbv 99
5) Vinyl Chloride	3.24	62	650449	9.820	ppbv 99
6) Bromomethane	3.46	94	579372	10.413	ppbv 99
7) Chloroethane	3.54	64	247771	10.580	ppbv 99
8) Dichlorotetrafluoroethane	3.17	85	1929228	10.138	ppbv 96
9) Propene	2.99	41	379903	9.826	ppbv 100
10) Heptane	8.11	43	1081666	10.416	ppbv 100
11) Trichlorofluoromethane	3.93	101	2281478	9.956	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1736310	10.039	ppbv 94
13) Ethanol	3.59	45	89569	9.344	ppbv 95
14) Bromoethene	3.72	108	790675	10.621	ppbv 99
15) Acetone	3.83	43	897079	8.970	ppbv 99
16) 1,3-Butadiene	3.31	39	391898	10.527	ppbv 100
17) tert-Butyl alcohol	4.28	59	1284442	10.552	ppbv 100
18) 1,1-Dichloroethene	4.27	96	813770	10.685	ppbv 98
19) Isopropyl Alcohol	3.95	45	620122	10.394	ppbv 99
20) Methylene Chloride	4.32	84	666225	8.945	ppbv 98
21) Allyl Chloride	4.39	41	531515	11.344	ppbv 98
22) trans-1,2-Dichloroethene	4.87	96	851115	10.497	ppbv 95
23) Vinyl Acetate	5.06	43	1346814	10.493	ppbv 100
24) 1,1-Dichloroethane	5.00	63	1362690	10.316	ppbv 99
25) Ethyl Acetate	5.66	43	1802165	10.201	ppbv 100
26) Hexane	5.67	57	1031131	10.301	ppbv 99
27) Carbon Disulfide	4.53	76	1713852	11.931	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	1872631	10.734	ppbv 100
29) Chloroform	5.74	83	2124727	10.418	ppbv 99
30) Cyclohexane	7.11	84	1183555	11.037	ppbv 100
31) cis-1,2-Dichloroethene	5.53	61	1241751	12.091	ppbv 99
32) 1,1,1-Trichloroethane	6.50	97	2092312	10.575	ppbv 99
34) 2-Butanone	5.23	43	1241403	10.518	ppbv 100
35) Carbon Tetrachloride	7.00	117	2179066	10.901	ppbv 99
36) Benzene	6.88	78	2719906	10.565	ppbv 100
37) 1,2-Dichloroethane	6.29	62	1301306	10.602	ppbv 99
38) Trichloroethene	7.82	130	1922981	12.859	ppbv 97
39) 1,2-Dichloropropane	7.60	63	899565	10.344	ppbv 98
40) 1,4-Dioxane	7.82	88	486036	11.187	ppbv 97
41) Tetrahydrofuran	6.03	42	702749	11.228	ppbv 98
42) Bromodichloromethane	7.78	83	2233269	11.252	ppbv 100
43) Methyl Methacrylate	8.00	69	1122351	11.274	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	3480721	10.276	ppbv	100
45) t-1,3-Dichloropropene	9.27	75	1264326	12.537	ppbv	99
46) cis-1,3-Dichloropropene	8.69	75	1504631	12.017	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	1336753	10.417	ppbv	98
48) Dibromochloromethane	10.30	129	2283679	11.307	ppbv	100
49) Bromoform	13.03	173	2077573	11.350	ppbv	100
50) 4-Methyl-2-Pentanone	8.73	43	1823314	10.668	ppbv	99
51) 2-Hexanone	10.12	43	1523207	10.865	ppbv	99
52) Tetrachloroethene	11.21	164	4087616	27.179	ppbv	91
53) Toluene	9.80	91	3475938	10.737	ppbv	100
54) 1,2-Dibromoethane	10.60	107	2143895	10.573	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.12	131	1776126	10.399	ppbv	96
57) Chlorobenzene	12.14	112	2926787	9.474	ppbv	98
58) Ethyl Benzene	12.70	91	4522403	10.448	ppbv	99
59) m/p-Xylene	12.99	91	7621859m	21.072	ppbv	
60) o-Xylene	13.69	91	3696331	10.147	ppbv	99
61) Styrene	13.52	104	2998235	10.761	ppbv	100
62) Isopropylbenzene	14.66	105	5726074	9.785	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.67	83	2643125	9.358	ppbv	99
64) n-propylbenzene	15.56	120	1764023	9.878	ppbv	91
65) tert-Butylbenzene	16.74	119	5363191	9.859	ppbv	98
66) Benzyl Chloride	16.99	91	1684677	12.461	ppbv	97
67) sec-Butylbenzene	17.29	105	7081211	9.771	ppbv	97
69) p-Isopropyltoluene	17.65	119	6058303	9.530	ppbv	98
70) n-Butylbenzene	18.55	91	5866539	9.580	ppbv	97
71) 2-Chlorotoluene	15.45	91	4325189	10.149	ppbv	97
72) 4-Ethyltoluene	15.84	105	4656151	10.054	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	4312660	10.068	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	4484558	9.533	ppbv	96
75) 1,3-Dichlorobenzene	17.00	146	3078993	8.836	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	3092863	9.000	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	3029283	8.973	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	1692129	7.851	ppbv	100
79) Naphthalene	22.20	128	4800750	9.197	ppbv	98
80) Naphthalene, 2-methyl-	24.98	142	1432033	8.038	ppbv	100
81) 1,2,4-Trichlorobenzene	21.93	180	2567118	8.213	ppbv	100

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

