

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
 Data File : VL034599.D
 Acq On : 5 Feb 2020 9:38
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/5/2020 2:51:31 PM

Quant Time: Feb 05 10:23:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1080760	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2193854	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2332453m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1967304	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	1283181	5.391	ppbv 91
3) Chlorodifluoromethane	2.94	51	1179452	9.032	ppbv 100
4) Chloromethane	3.10	50	713635	8.931	ppbv 99
5) Vinyl Chloride	3.22	62	682076	8.937	ppbv 99
6) Bromomethane	3.44	94	381160	9.602	ppbv 98
7) Chloroethane	3.52	64	265353	9.349	ppbv 94
8) Dichlorotetrafluoroethane	3.15	85	1658796	8.915	ppbv 98
9) Propene	2.97	41	452144	8.892	ppbv 97
10) Heptane	8.13	43	1255973	9.815	ppbv 99
11) Trichlorofluoromethane	3.92	101	1994177	9.222	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1319181	9.350	ppbv 100
13) Ethanol	3.57	45	122967	9.029	ppbv 95
14) Bromoethene	3.71	108	530400	9.583	ppbv 98
15) Acetone	3.82	43	1366366	8.602	ppbv 98
16) 1,3-Butadiene	3.29	39	624879	9.907	ppbv 99
17) tert-Butyl alcohol	4.27	59	1378873	11.804	ppbv 100
18) 1,1-Dichloroethene	4.26	96	584099	9.807	ppbv 98
19) Isopropyl Alcohol	3.94	45	1073894	11.585	ppbv 100
20) Methylene Chloride	4.32	84	523519	8.656	ppbv 98
21) Allyl Chloride	4.39	41	958831	9.720	ppbv 100
22) trans-1,2-Dichloroethene	4.87	96	594146	9.525	ppbv 93
23) Vinyl Acetate	5.06	43	1750893	9.662	ppbv 98
24) 1,1-Dichloroethane	5.00	63	1387674	9.172	ppbv 99
25) Ethyl Acetate	5.66	43	2372007	9.224	ppbv 100
26) Hexane	5.67	57	1007975	9.358	ppbv 99
27) Carbon Disulfide	4.53	76	1533763	10.553	ppbv 98
28) Methyl tert-Butyl Ether	5.01	73	1768534	9.628	ppbv 100
29) Chloroform	5.75	83	1720943	9.036	ppbv 97
30) Cyclohexane	7.13	84	777247	9.738	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	1088917	9.731	ppbv 95
32) 1,1,1-Trichloroethane	6.51	97	1830061	8.949	ppbv 99
34) 2-Butanone	5.23	43	1462131	9.179	ppbv 100
35) Carbon Tetrachloride	7.02	117	1974617	9.415	ppbv 97
36) Benzene	6.89	78	1876159	9.616	ppbv 95
37) 1,2-Dichloroethane	6.30	62	1523119	9.357	ppbv 99
38) Trichloroethene	7.84	130	812010	9.874	ppbv 96
39) 1,2-Dichloropropane	7.62	63	757649	9.368	ppbv 97
40) 1,4-Dioxane	7.83	88	329900	10.611	ppbv 81
41) Tetrahydrofuran	6.04	42	784391	9.439	ppbv 99
42) Bromodichloromethane	7.80	83	1905130	9.510	ppbv 97
43) Methyl Methacrylate	8.02	69	805738	10.268	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3397047	9.597	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1117014	10.871	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1259084	10.781	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	819664	9.357	ppbv	98
48) Dibromochloromethane	10.33	129	1584909	9.874	ppbv	99
49) Bromoform	13.08	173	1376461	9.767	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2191507	9.647	ppbv	99
51) 2-Hexanone	10.15	43	1800637	10.069	ppbv #	98
52) Tetrachloroethene	11.25	164	737977	9.416	ppbv	96
53) Toluene	9.82	91	2187490	10.207	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1239531	9.443	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1058678	9.194	ppbv	98
57) Chlorobenzene	12.18	112	1730723	9.017	ppbv	96
58) Ethyl Benzene	12.74	91	2991353	9.584	ppbv	99
59) m/p-Xylene	13.02	91	5179536m	18.773	ppbv	
60) o-Xylene	13.73	91	2585065	9.329	ppbv	99
61) Styrene	13.56	104	1848596	10.006	ppbv	99
62) Isopropylbenzene	14.70	105	3304295	9.203	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.72	83	1776626	8.290	ppbv	99
64) n-propylbenzene	15.60	120	858482	9.293	ppbv	94
65) tert-Butylbenzene	16.79	119	3043083	9.354	ppbv	99
66) Benzyl Chloride	17.03	91	1463667	10.730	ppbv	99
67) sec-Butylbenzene	17.34	105	4193344	9.380	ppbv	99
69) p-Isopropyltoluene	17.70	119	3567282	9.827	ppbv	100
70) n-Butylbenzene	18.59	91	3878255	10.065	ppbv	100
71) 2-Chlorotoluene	15.49	91	2574837	9.447	ppbv	100
72) 4-Ethyltoluene	15.88	105	2880330	9.463	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	2836417	9.537	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	3036619	9.223	ppbv #	92
75) 1,3-Dichlorobenzene	17.04	146	1760630	9.287	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1744374	9.336	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1736060	9.533	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1776001	10.198	ppbv	100
79) Naphthalene	22.26	128	3113984	12.013	ppbv	96
80) Naphthalene, 2-methyl-	25.01	142	1119092	11.222	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	1913382	11.974	ppbv	98

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

