

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010220\
 Data File : VL034543.D
 Acq On : 2 Jan 2020 11:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

apatel
 1/3/2020 11:37:42 AM

Quant Time: Jan 03 05:00:54 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 3

QLast Update : Mon Dec 30 14:58:50 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1001198	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2039852	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2143187	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1744670	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	1181970	7.486	ppbv 97
3) Chlorodifluoromethane	2.95	51	1093297	9.165	ppbv 99
4) Chloromethane	3.11	50	655563	9.252	ppbv 99
5) Vinyl Chloride	3.23	62	627119	9.038	ppbv 99
6) Bromomethane	3.45	94	332601	9.630	ppbv 100
7) Chloroethane	3.53	64	235087	9.723	ppbv 97
8) Dichlorotetrafluoroethane	3.16	85	1457163	9.202	ppbv 98
9) Propene	2.98	41	446183	9.702	ppbv 100
10) Heptane	8.15	43	1188272	10.005	ppbv 100
11) Trichlorofluoromethane	3.93	101	1715112	9.387	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1128665	9.712	ppbv 98
13) Ethanol	3.58	45	120445	9.439	ppbv 98
14) Bromoethene	3.72	108	463960	9.871	ppbv 100
15) Acetone	3.83	43	1208037	8.268	ppbv 98
16) 1,3-Butadiene	3.30	39	559725	9.960	ppbv 99
17) tert-Butyl alcohol	4.28	59	1202211	10.275	ppbv 99
18) 1,1-Dichloroethene	4.27	96	497019	9.818	ppbv 97
19) Isopropyl Alcohol	3.95	45	957461	10.122	ppbv 100
20) Methylene Chloride	4.33	84	440468	7.661	ppbv 98
21) Allyl Chloride	4.40	41	839451	9.996	ppbv 99
22) trans-1,2-Dichloroethene	4.88	96	527307	10.241	ppbv 99
23) Vinyl Acetate	5.07	43	1697008	10.060	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1280661	9.450	ppbv 99
25) Ethyl Acetate	5.68	43	2174970	9.532	ppbv 100
26) Hexane	5.69	57	917592	9.543	ppbv 99
27) Carbon Disulfide	4.54	76	1312530	10.800	ppbv 98
28) Methyl tert-Butyl Ether	5.02	73	1650754	10.279	ppbv 99
29) Chloroform	5.76	83	1567093	9.420	ppbv 97
30) Cyclohexane	7.14	84	733502	10.264	ppbv 99
31) cis-1,2-Dichloroethene	5.55	61	999571	10.202	ppbv 99
32) 1,1,1-Trichloroethane	6.52	97	1628363	9.429	ppbv 100
34) 2-Butanone	5.24	43	1400537	9.608	ppbv 99
35) Carbon Tetrachloride	7.03	117	1727641	9.339	ppbv 100
36) Benzene	6.91	78	1751764	9.852	ppbv 99
37) 1,2-Dichloroethane	6.32	62	1378866	9.549	ppbv 100
38) Trichloroethene	7.86	130	731411	10.183	ppbv 97
39) 1,2-Dichloropropane	7.64	63	716954	9.806	ppbv 98
40) 1,4-Dioxane	7.85	88	294898	9.965	ppbv # 99
41) Tetrahydrofuran	6.05	42	772304	10.328	ppbv 99
42) Bromodichloromethane	7.82	83	1733996	9.759	ppbv 97
43) Methyl Methacrylate	8.03	69	749055	10.327	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3124764	9.500	ppbv	100
45) t-1,3-Dichloropropene	9.31	75	1056194	11.304	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1178162	11.031	ppbv	97
47) 1,1,2-Trichloroethane	9.51	97	757660	9.400	ppbv	95
48) Dibromochloromethane	10.34	129	1460995	10.456	ppbv	99
49) Bromoform	13.09	173	1296130	10.247	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2061382	9.742	ppbv	100
51) 2-Hexanone	10.16	43	1722935	10.087	ppbv #	100
52) Tetrachloroethene	11.26	164	666162	9.600	ppbv	95
53) Toluene	9.84	91	2028214	10.382	ppbv	100
54) 1,2-Dibromoethane	10.65	107	1158194	9.875	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.17	131	966307	9.340	ppbv	98
57) Chlorobenzene	12.19	112	1607017	9.089	ppbv	97
58) Ethyl Benzene	12.75	91	2833545	9.803	ppbv	96
59) m/p-Xylene	13.04	91	4710710m	18.638	ppbv	
60) o-Xylene	13.74	91	2402254	9.472	ppbv	100
61) Styrene	13.58	104	1742318	10.048	ppbv	100
62) Isopropylbenzene	14.72	105	3098928	9.341	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1676680	8.241	ppbv	100
64) n-propylbenzene	15.61	120	796318	9.400	ppbv	95
65) tert-Butylbenzene	16.80	119	2803668	9.354	ppbv	100
66) Benzyl Chloride	17.05	91	1409499	10.730	ppbv	100
67) sec-Butylbenzene	17.35	105	3815121	9.064	ppbv	100
69) p-Isopropyltoluene	17.71	119	3183603	9.326	ppbv	99
70) n-Butylbenzene	18.61	91	3362311	9.128	ppbv	100
71) 2-Chlorotoluene	15.51	91	2404259	9.332	ppbv	99
72) 4-Ethyltoluene	15.89	105	2679326	9.441	ppbv	100
73) 1,3,5-Trimethylbenzene	16.05	105	2631024	9.449	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	2742183	9.206	ppbv #	91
75) 1,3-Dichlorobenzene	17.06	146	1548532	8.680	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	1541875	8.977	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1468578	8.759	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1362479	8.561	ppbv	100
79) Naphthalene	22.28	128	2503115	11.157	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1366267	21.984	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.00	180	1497525	10.252	ppbv	99

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

