

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100219\
 Data File : VL034221.D
 Acq On : 2 Oct 2019 21:46
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/7/2019 12:30:43 PM

Quant Time: Oct 04 02:40:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	857022	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1638935	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	1831798m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1462421	9.19	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.03	85	1569391	12.397	ppbv	98
3) Chlorodifluoromethane	2.97	51	1018888	10.140	ppbv	99
4) Chloromethane	3.12	50	620804	10.513	ppbv	95
5) Vinyl Chloride	3.24	62	566885	10.505	ppbv	95
6) Bromomethane	3.46	94	288170	11.445	ppbv	98
7) Chloroethane	3.55	64	207114	10.980	ppbv	97
8) Dichlorotetrafluoroethane	3.17	85	1207562	10.808	ppbv	100
9) Propene	2.99	41	548665	11.067	ppbv	98
10) Heptane	8.17	43	1407864	10.896	ppbv	99
11) Trichlorofluoromethane	3.95	101	1265894	10.986	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	870348	11.541	ppbv	99
13) Ethanol	3.60	45	100235	8.349	ppbv	97
14) Bromoethene	3.73	108	368935	11.966	ppbv	98
15) Acetone	3.84	43	1050610	9.147	ppbv	100
16) 1,3-Butadiene	3.31	39	554959	11.071	ppbv	100
17) tert-Butyl alcohol	4.30	59	776512	10.669	ppbv	99
18) 1,1-Dichloroethene	4.29	96	395261	12.017	ppbv	92
19) Isopropyl Alcohol	3.97	45	672001	9.514	ppbv	100
20) Methylene Chloride	4.35	84	355480	10.734	ppbv	95
21) Allyl Chloride	4.42	41	749763	11.556	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	403376	12.258	ppbv	98
23) Vinyl Acetate	5.09	43	1826215	10.789	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1204356	10.567	ppbv	99
25) Ethyl Acetate	5.70	43	2284971	10.520	ppbv	99
26) Hexane	5.71	57	973951	10.779	ppbv	99
27) Carbon Disulfide	4.56	76	1040471	12.486	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1548168	11.537	ppbv	98
29) Chloroform	5.78	83	1407745	10.903	ppbv	97
30) Cyclohexane	7.18	84	756656	11.599	ppbv	97
31) cis-1,2-Dichloroethene	5.57	61	1027365	11.154	ppbv	98
32) 1,1,1-Trichloroethane	6.55	97	1328573	10.670	ppbv	98
34) 2-Butanone	5.27	43	1569742	9.380	ppbv	98
35) Carbon Tetrachloride	7.06	117	1278553	9.390	ppbv	100
36) Benzene	6.93	78	1849991	10.220	ppbv	98
37) 1,2-Dichloroethane	6.34	62	1181079	9.174	ppbv	98
38) Trichloroethene	7.89	130	614545	9.502	ppbv	96
39) 1,2-Dichloropropane	7.66	63	791417	9.731	ppbv	94
40) 1,4-Dioxane	7.88	88	262028	9.956	ppbv #	85
41) Tetrahydrofuran	6.08	42	953859	10.120	ppbv	98
42) Bromodichloromethane	7.84	83	1555863	10.070	ppbv	98
43) Methyl Methacrylate	8.06	69	789571	10.559	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3347136	9.605	ppbv	98
45) t-1,3-Dichloropropene	9.34	75	1017586	11.509	ppbv	94
46) cis-1,3-Dichloropropene	8.76	75	1158552	10.893	ppbv	92
47) 1,1,2-Trichloroethane	9.54	97	729931	9.995	ppbv	98
48) Dibromochloromethane	10.37	129	1163254	10.050	ppbv	99
49) Bromoform	13.12	173	999355	10.669	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2323981	9.542	ppbv	99
51) 2-Hexanone	10.19	43	1943065	9.507	ppbv #	97
52) Tetrachloroethene	11.29	164	575763	9.628	ppbv	96
53) Toluene	9.87	91	2062587	10.426	ppbv	99
54) 1,2-Dibromoethane	10.68	107	1077146	9.918	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	769627	9.421	ppbv	99
57) Chlorobenzene	12.22	112	1422817	8.921	ppbv	98
58) Ethyl Benzene	12.78	91	2785558	9.424	ppbv	99
59) m/p-Xylene	13.07	91	4485661m	18.323	ppbv	
60) o-Xylene	13.77	91	2224425	9.087	ppbv	99
61) Styrene	13.60	104	1677226	9.565	ppbv	98
62) Isopropylbenzene	14.74	105	2886817	9.110	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.75	83	1619528	8.068	ppbv	99
64) n-propylbenzene	15.64	120	729803	9.103	ppbv	89
65) tert-Butylbenzene	16.83	119	2445026	8.830	ppbv	98
66) Benzyl Chloride	17.08	91	1142871	11.667	ppbv	100
67) sec-Butylbenzene	17.37	105	3522764	8.897	ppbv	99
69) p-Isopropyltoluene	17.73	119	2875401	8.969	ppbv	98
70) n-Butylbenzene	18.64	91	3263420	8.742	ppbv	98
71) 2-Chlorotoluene	15.53	91	2337632	9.029	ppbv	99
72) 4-Ethyltoluene	15.92	105	2547843	9.212	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2426310	9.081	ppbv	98
74) 1,2,4-Trimethylbenzene	16.84	105	2443159	8.612	ppbv	97
75) 1,3-Dichlorobenzene	17.09	146	1313040	8.626	ppbv	98
76) 1,4-Dichlorobenzene	17.23	146	1341619	8.607	ppbv	100
77) 1,2-Dichlorobenzene	17.91	146	1310321	8.505	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1036163m	10.154	ppbv	
79) Naphthalene	22.31	128	2209720	8.847	ppbv	97
80) Naphthalene, 2-methyl-	25.05	142	915828	7.885	ppbv	98
81) 1,2,4-Trichlorobenzene	22.04	180	1220952	8.825	ppbv	99

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

