

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
 Data File : VL034158.D
 Acq On : 11 Sep 2019 00:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:17:33 AM

Quant Time: Sep 11 04:44:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	641658	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1207807	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1340404m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	1038749	9.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1077456	10.180	ppbv 96
3) Chlorodifluoromethane	2.97	51	709259	9.916	ppbv 100
4) Chloromethane	3.13	50	437358	9.781	ppbv 96
5) Vinyl Chloride	3.25	62	389537	9.564	ppbv 99
6) Bromomethane	3.47	94	192458	9.574	ppbv 95
7) Chloroethane	3.56	64	137970	9.942	ppbv 100
8) Dichlorotetrafluoroethane	3.18	85	817988	9.602	ppbv 99
9) Propene	3.00	41	374991	9.370	ppbv 98
10) Heptane	8.19	43	976390	9.401	ppbv 100
11) Trichlorofluoromethane	3.95	101	837766	9.706	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	561482	9.724	ppbv 100
13) Ethanol	3.60	45	51260	6.539	ppbv 98
14) Bromoethene	3.74	108	243666	9.747	ppbv 100
15) Acetone	3.85	43	705378	9.121	ppbv 99
16) 1,3-Butadiene	3.32	39	387421	9.892	ppbv 97
17) tert-Butyl alcohol	4.30	59	442711	7.886	ppbv 99
18) 1,1-Dichloroethene	4.30	96	259754	9.846	ppbv 92
19) Isopropyl Alcohol	3.98	45	401044	7.683	ppbv # 99
20) Methylene Chloride	4.36	84	231774	9.065	ppbv 96
21) Allyl Chloride	4.43	41	509792	9.999	ppbv 99
22) trans-1,2-Dichloroethene	4.91	96	267609	10.134	ppbv 97
23) Vinyl Acetate	5.10	43	1302281	9.926	ppbv 99
24) 1,1-Dichloroethane	5.04	63	830723	9.540	ppbv 100
25) Ethyl Acetate	5.71	43	1561061	9.196	ppbv 100
26) Hexane	5.72	57	659995	8.745	ppbv 99
27) Carbon Disulfide	4.57	76	698598	10.256	ppbv 99
28) Methyl tert-Butyl Ether	5.06	73	1056910	9.558	ppbv 99
29) Chloroform	5.79	83	965036	9.480	ppbv 97
30) Cyclohexane	7.18	84	522922	9.584	ppbv 98
31) cis-1,2-Dichloroethene	5.58	61	703631	9.735	ppbv 96
32) 1,1,1-Trichloroethane	6.56	97	892287	9.278	ppbv 98
34) 2-Butanone	5.28	43	1095529	9.435	ppbv 99
35) Carbon Tetrachloride	7.07	117	871979	9.260	ppbv 97
36) Benzene	6.94	78	1284962	9.307	ppbv 97
37) 1,2-Dichloroethane	6.36	62	810275	9.568	ppbv 99
38) Trichloroethene	7.90	130	402632	7.816	ppbv 95
39) 1,2-Dichloropropane	7.67	63	551063	9.327	ppbv 96
40) 1,4-Dioxane	7.89	88	159231	7.334	ppbv # 96
41) Tetrahydrofuran	6.09	42	666282	9.571	ppbv 98
42) Bromodichloromethane	7.85	83	1049439	9.508	ppbv 98
43) Methyl Methacrylate	8.07	69	542681	9.542	ppbv 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	2311646	9.082	ppbv	98
45) t-1,3-Dichloropropene	9.35	75	682862	10.215	ppbv	98
46) cis-1,3-Dichloropropene	8.77	75	797327	9.804	ppbv	99
47) 1,1,2-Trichloroethane	9.55	97	489654	9.097	ppbv	95
48) Dibromochloromethane	10.39	129	785994	9.786	ppbv	96
49) Bromoform	13.14	173	628353	8.924	ppbv	99
50) 4-Methyl-2-Pentanone	8.81	43	1609695	9.085	ppbv	97
51) 2-Hexanone	10.20	43	1382392	9.031	ppbv	98
52) Tetrachloroethene	11.30	164	392800	8.069	ppbv	96
53) Toluene	9.88	91	1415557	9.271	ppbv	97
54) 1,2-Dibromoethane	10.69	107	726617	9.061	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.21	131	501798	8.728	ppbv #	59
57) Chlorobenzene	12.23	112	961565	8.339	ppbv	99
58) Ethyl Benzene	12.80	91	1901970	8.653	ppbv	97
59) m/p-Xylene	13.08	91	3045606m	16.986	ppbv	
60) o-Xylene	13.78	91	1485481	8.318	ppbv	97
61) Styrene	13.62	104	1144794	8.570	ppbv	99
62) Isopropylbenzene	14.75	105	1924827	8.284	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.77	83	1028680	7.068	ppbv	100
64) n-propylbenzene	15.65	120	484805	8.329	ppbv	85
65) tert-Butylbenzene	16.84	119	1589375	7.926	ppbv	99
66) Benzyl Chloride	17.09	91	663504	8.974	ppbv	97
67) sec-Butylbenzene	17.39	105	2377703m	8.245	ppbv	
69) p-Isopropyltoluene	17.74	119	1920861	8.325	ppbv	98
70) n-Butylbenzene	18.64	91	2238899	8.528	ppbv	97
71) 2-Chlorotoluene	15.55	91	1572008	8.282	ppbv	99
72) 4-Ethyltoluene	15.93	105	1713735	8.505	ppbv	98
73) 1,3,5-Trimethylbenzene	16.09	105	1626216	8.304	ppbv	97
74) 1,2,4-Trimethylbenzene	16.86	105	1620473	8.036	ppbv	97
75) 1,3-Dichlorobenzene	17.10	146	874420	8.184	ppbv	100
76) 1,4-Dichlorobenzene	17.24	146	922793	8.241	ppbv	99
77) 1,2-Dichlorobenzene	17.92	146	898118	8.211	ppbv	98
78) Hexachloro-1,3-Butadiene	23.47	225	824463	11.048	ppbv	99
79) Naphthalene	22.33	128	1956926	10.735	ppbv	98
80) Naphthalene, 2-methyl-	25.06	142	874993	13.828	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	994622	10.027	ppbv	99

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

