

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051419\
 Data File : VL033685.D
 Acq On : 14 May 2019 10:03
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 5:40:58 AM

Quant Time: May 15 02:41:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1045023	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2418338	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2818234m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2161647	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2040157	8.324	ppbv	99
3) Chlorodifluoromethane	3.01	51	1159507	7.683	ppbv	99
4) Chloromethane	3.17	50	616638	7.859	ppbv	98
5) Vinyl Chloride	3.29	62	618674	8.110	ppbv	99
6) Bromomethane	3.51	94	396317	8.178	ppbv	96
7) Chloroethane	3.60	64	235931	8.520	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1596815	7.915	ppbv	100
9) Propene	3.03	41	467054	8.118	ppbv	100
10) Heptane	8.24	43	1537157	10.826	ppbv	100
11) Trichlorofluoromethane	4.00	101	1931719	8.440	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1294262	8.412	ppbv	99
13) Ethanol	3.64	45	120961	7.004	ppbv	99
14) Bromoethene	3.79	108	502964	8.293	ppbv	98
15) Acetone	3.90	43	1192542	7.671	ppbv	99
16) 1,3-Butadiene	3.36	39	560172	8.402	ppbv	98
17) tert-Butyl alcohol	4.35	59	1075090	9.105	ppbv	100
18) 1,1-Dichloroethene	4.35	96	563846	8.488	ppbv	99
19) Isopropyl Alcohol	4.02	45	805658	8.435	ppbv	99
20) Methylene Chloride	4.41	84	479190	8.118	ppbv	95
21) Allyl Chloride	4.47	41	827599	8.795	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	587354	8.808	ppbv	97
23) Vinyl Acetate	5.15	43	1885249	9.332	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1303621	8.531	ppbv	100
25) Ethyl Acetate	5.76	43	2465309	9.747	ppbv	100
26) Hexane	5.78	57	1082254	9.954	ppbv	99
27) Carbon Disulfide	4.62	76	1436885	9.662	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1680078	9.175	ppbv	100
29) Chloroform	5.85	83	1860370	9.517	ppbv	99
30) Cyclohexane	7.24	84	912927	9.999	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	1130186	10.449	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1914284	9.483	ppbv	99
34) 2-Butanone	5.33	43	1473677	9.516	ppbv	99
35) Carbon Tetrachloride	7.13	117	2040589	10.267	ppbv	99
36) Benzene	7.00	78	2176592	10.037	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1456073	9.624	ppbv	99
38) Trichloroethene	7.96	130	1023143	12.862	ppbv	96
39) 1,2-Dichloropropane	7.73	63	843867	10.441	ppbv	99
40) 1,4-Dioxane	7.95	88	341544	10.574	ppbv	# 1
41) Tetrahydrofuran	6.15	42	887315	11.088	ppbv	99
42) Bromodichloromethane	7.91	83	2242185	11.477	ppbv	96
43) Methyl Methacrylate	8.13	69	1010368	12.387	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4187865	11.295	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1301089m	12.996	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	1538929	12.317	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	984031	10.602	ppbv	99
48) Dibromochloromethane	10.45	129	1761681	11.197	ppbv	100
49) Bromoform	13.20	173	1644538	12.033	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2659494	11.342	ppbv	100
51) 2-Hexanone	10.27	43	1988979	10.948	ppbv	100
52) Tetrachloroethene	11.37	164	876563	11.410	ppbv	98
53) Toluene	9.94	91	2668910	11.391	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1574110	11.259	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1240947	9.546	ppbv	99
57) Chlorobenzene	12.30	112	2150171	9.292	ppbv	99
58) Ethyl Benzene	12.86	91	3845742	10.464	ppbv	99
59) m/p-Xylene	13.15	91	6404876m	19.786	ppbv	
60) o-Xylene	13.85	91	3224951	9.844	ppbv	100
61) Styrene	13.68	104	2400950	11.006	ppbv	99
62) Isopropylbenzene	14.82	105	4422539	9.887	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2221222	9.316	ppbv	99
64) n-propylbenzene	15.72	120	1138157	9.846	ppbv	99
65) tert-Butylbenzene	16.90	119	4027566	9.816	ppbv	99
66) Benzyl Chloride	17.15	91	2353777	12.610	ppbv	100
67) sec-Butylbenzene	17.45	105	5589224	9.763	ppbv	100
69) p-Isopropyltoluene	17.81	119	4383879	9.294	ppbv	100
70) n-Butylbenzene	18.71	91	4956931	9.910	ppbv	100
71) 2-Chlorotoluene	15.61	91	3365204	10.183	ppbv	100
72) 4-Ethyltoluene	16.00	105	3731797	9.691	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3546803	9.526	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	3870290	9.352	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	2276896	9.109	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2248458	9.478	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	2017373	8.711	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1296439	7.064	ppbv	100
79) Naphthalene	22.41	128	3296018	8.723	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1185549	8.299	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1850505m	8.430	ppbv	

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

