

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033767.D
 Acq On : 23 May 2019 5:45
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:51:35 AM

Quant Time: May 23 07:21:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	869410	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2215213	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2318153	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1818147	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1538137	8.395	ppbv 100
3) Chlorodifluoromethane	3.01	51	1108613	11.132	ppbv 99
4) Chloromethane	3.17	50	630851	11.075	ppbv 99
5) Vinyl Chloride	3.29	62	636155	10.964	ppbv 98
6) Bromomethane	3.51	94	405294	11.448	ppbv 95
7) Chloroethane	3.60	64	236335	11.461	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	1645943	11.143	ppbv 100
9) Propene	3.03	41	481659	11.371	ppbv 100
10) Heptane	8.24	43	1346693	11.227	ppbv 100
11) Trichlorofluoromethane	4.00	101	1948022	11.140	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1287604	10.544	ppbv 100
13) Ethanol	3.64	45	111424	8.139	ppbv 99
14) Bromoethene	3.78	108	528386	11.770	ppbv 99
15) Acetone	3.90	43	1187113	9.841	ppbv 100
16) 1,3-Butadiene	3.36	39	569567	11.857	ppbv 100
17) tert-Butyl alcohol	4.35	59	1180590	12.104	ppbv 99
18) 1,1-Dichloroethene	4.35	96	579593	11.245	ppbv 100
19) Isopropyl Alcohol	4.02	45	917305	11.794	ppbv # 98
20) Methylene Chloride	4.40	84	491512	10.583	ppbv 98
21) Allyl Chloride	4.47	41	856511	11.384	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	596269	11.286	ppbv 94
23) Vinyl Acetate	5.15	43	1731493	10.887	ppbv 98
24) 1,1-Dichloroethane	5.09	63	1209372	10.003	ppbv 99
25) Ethyl Acetate	5.76	43	2167444	10.229	ppbv 100
26) Hexane	5.78	57	946236	10.387	ppbv 98
27) Carbon Disulfide	4.62	76	1434084	11.475	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1558565	10.495	ppbv 100
29) Chloroform	5.84	83	1642748	9.790	ppbv 98
30) Cyclohexane	7.24	84	834169	10.892	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	972406	10.766	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1730302	10.327	ppbv 99
34) 2-Butanone	5.32	43	1387666	10.106	ppbv 99
35) Carbon Tetrachloride	7.13	117	1870232	10.540	ppbv 99
36) Benzene	7.00	78	2047435	10.161	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1304456	10.035	ppbv 99
38) Trichloroethene	7.96	130	888139	11.878	ppbv 99
39) 1,2-Dichloropropane	7.73	63	797042	10.609	ppbv 98
40) 1,4-Dioxane	7.95	88	351236	11.176	ppbv # 96
41) Tetrahydrofuran	6.14	42	767874	9.981	ppbv 99
42) Bromodichloromethane	7.91	83	1922267	10.802	ppbv 93
43) Methyl Methacrylate	8.13	69	871567	11.753	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3653377	10.727	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1123425	11.950	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1261914	11.463	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	874330	10.244	ppbv	97
48) Dibromochloromethane	10.44	129	1622163	10.969	ppbv	99
49) Bromoform	13.20	173	1510924	12.143	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2257858	10.691	ppbv	100
51) 2-Hexanone	10.26	43	1863900	11.308	ppbv	100
52) Tetrachloroethene	11.37	164	793359	11.200	ppbv	97
53) Toluene	9.94	91	2462226	11.329	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1381034	10.603	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1077305	10.043	ppbv	98
57) Chlorobenzene	12.30	112	1898874	9.951	ppbv	99
58) Ethyl Benzene	12.86	91	3376939	11.000	ppbv	99
59) m/p-Xylene	13.14	91	5964274m	22.226	ppbv	
60) o-Xylene	13.84	91	2835791	10.483	ppbv	99
61) Styrene	13.68	104	2121217	11.647	ppbv	99
62) Isopropylbenzene	14.82	105	3839975	10.541	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1978079	10.055	ppbv	100
64) n-propylbenzene	15.72	120	993039	10.538	ppbv	98
65) tert-Butylbenzene	16.90	119	3510101	10.553	ppbv	99
66) Benzyl Chloride	17.15	91	1785342	11.270	ppbv	100
67) sec-Butylbenzene	17.45	105	4943916	10.620	ppbv	99
69) p-Isopropyltoluene	17.81	119	4082837	10.611	ppbv	99
70) n-Butylbenzene	18.71	91	4232496	10.257	ppbv	99
71) 2-Chlorotoluene	15.61	91	2896638	10.717	ppbv	100
72) 4-Ethyltoluene	15.99	105	3313255	10.712	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3210095	10.637	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3376811	10.282	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1947079	9.675	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1913921	10.006	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1877239	9.927	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1150724	8.048	ppbv	99
79) Naphthalene	22.40	128	2820756	9.247	ppbv	99
80) Naphthalene, 2-methyl-	25.10	142	954372	8.234	ppbv	96
81) 1,2,4-Trichlorobenzene	22.12	180	1600765	8.961	ppbv	99

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

