

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052319\
 Data File : VL033796.D
 Acq On : 24 May 2019 9:28
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:54:03 AM

Quant Time: May 24 10:12:47 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	831050	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2153286	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2272709m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1690471	9.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1235722	7.056	ppbv 100
3) Chlorodifluoromethane	3.01	51	1070459	11.245	ppbv 98
4) Chloromethane	3.17	50	646599	11.876	ppbv 99
5) Vinyl Chloride	3.29	62	642949	11.592	ppbv 98
6) Bromomethane	3.51	94	405325	11.977	ppbv 96
7) Chloroethane	3.60	64	235259	11.936	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	1536696	10.883	ppbv 96
9) Propene	3.03	41	522938	12.915	ppbv 98
10) Heptane	8.24	43	1283677	11.196	ppbv 100
11) Trichlorofluoromethane	4.00	101	1712008	10.242	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1196907	10.254	ppbv 98
13) Ethanol	3.65	45	113921	8.705	ppbv 97
14) Bromoethene	3.78	108	523953	12.210	ppbv 99
15) Acetone	3.90	43	1103242	9.568	ppbv 99
16) 1,3-Butadiene	3.36	39	561174	12.222	ppbv 99
17) tert-Butyl alcohol	4.35	59	1191862	12.783	ppbv 100
18) 1,1-Dichloroethene	4.35	96	541999	11.001	ppbv 96
19) Isopropyl Alcohol	4.02	45	895427	12.044	ppbv 99
20) Methylene Chloride	4.40	84	450462	10.147	ppbv 97
21) Allyl Chloride	4.47	41	810375	11.268	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	546891	10.829	ppbv 93
23) Vinyl Acetate	5.15	43	1884149	12.393	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1284305	11.113	ppbv 98
25) Ethyl Acetate	5.76	43	2184383	10.784	ppbv 99
26) Hexane	5.77	57	967703	11.113	ppbv 99
27) Carbon Disulfide	4.62	76	1349626	11.297	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1774742	12.502	ppbv 100
29) Chloroform	5.84	83	1631042	10.169	ppbv 99
30) Cyclohexane	7.24	84	862406	11.780	ppbv 96
31) cis-1,2-Dichloroethene	5.63	61	1014466	11.750	ppbv 94
32) 1,1,1-Trichloroethane	6.62	97	1640837	10.245	ppbv 98
34) 2-Butanone	5.32	43	1472381	11.032	ppbv 97
35) Carbon Tetrachloride	7.13	117	1715206	9.944	ppbv 99
36) Benzene	7.00	78	2122788	10.837	ppbv 97
37) 1,2-Dichloroethane	6.41	62	1203882	9.528	ppbv 98
38) Trichloroethene	7.96	130	832846	11.459	ppbv 99
39) 1,2-Dichloropropane	7.73	63	792037	10.846	ppbv 92
40) 1,4-Dioxane	7.95	88	336899	11.028	ppbv # 93
41) Tetrahydrofuran	6.14	42	850359	11.371	ppbv 98
42) Bromodichloromethane	7.91	83	1753970	10.140	ppbv 97
43) Methyl Methacrylate	8.13	69	855557	11.869	ppbv 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.98	57	3356895	10.140	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1120450	12.261	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1278413	11.947	ppbv	94
47) 1,1,2-Trichloroethane	9.61	97	874980	10.547	ppbv	99
48) Dibromochloromethane	10.44	129	1494995	10.400	ppbv	99
49) Bromoform	13.20	173	1397438	11.554	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2200535	10.719	ppbv	98
51) 2-Hexanone	10.26	43	1798377	11.224	ppbv #	99
52) Tetrachloroethene	11.37	164	802923	11.661	ppbv	98
53) Toluene	9.94	91	2449379	11.594	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1389399	10.974	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1045056	9.937	ppbv	98
57) Chlorobenzene	12.29	112	1852846	9.904	ppbv	98
58) Ethyl Benzene	12.86	91	3354316	11.145	ppbv	98
59) m/p-Xylene	13.15	91	5476648m	20.817	ppbv	
60) o-Xylene	13.84	91	2709301	10.216	ppbv	98
61) Styrene	13.68	104	2151549	12.050	ppbv	98
62) Isopropylbenzene	14.82	105	3697311	10.352	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1890031	9.800	ppbv	99
64) n-propylbenzene	15.72	120	984764	10.659	ppbv	97
65) tert-Butylbenzene	16.90	119	3395286	10.412	ppbv	98
66) Benzyl Chloride	17.15	91	1801570	11.600	ppbv	99
67) sec-Butylbenzene	17.45	105	4748913	10.405	ppbv	100
69) p-Isopropyltoluene	17.81	119	3916735	10.383	ppbv	99
70) n-Butylbenzene	18.71	91	3973957	9.823	ppbv	100
71) 2-Chlorotoluene	15.61	91	2790858	10.532	ppbv	99
72) 4-Ethyltoluene	16.00	105	3304023	10.896	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3065570	10.361	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	3192690	9.916	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	1878081	9.518	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1873669	9.991	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1805785	9.740	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1296640	9.250	ppbv	99
79) Naphthalene	22.41	128	2799105	9.359	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1315443	11.576	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	1530695	8.741	ppbv	99

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

