

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033739.D
 Acq On : 22 May 2019 9:56
 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 2:50:39 AM

Quant Time: May 23 04:42:15 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	5.75	49	1042342	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2424133	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2891717m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2282608	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1668569	7.596	ppbv 99
3) Chlorodifluoromethane	3.01	51	1149927	9.631	ppbv 99
4) Chloromethane	3.17	50	655201	9.594	ppbv 97
5) Vinyl Chloride	3.29	62	650406	9.350	ppbv 100
6) Bromomethane	3.51	94	419384	9.881	ppbv 99
7) Chloroethane	3.59	64	242878	9.824	ppbv 97
8) Dichlorotetrafluoroethane	3.21	85	1693889	9.565	ppbv 99
9) Propene	3.03	41	491823	9.685	ppbv 100
10) Heptane	8.24	43	1318931	9.171	ppbv 99
11) Trichlorofluoromethane	4.00	101	2024403	9.656	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1357903	9.275	ppbv 100
13) Ethanol	3.64	45	91092m	5.550	ppbv
14) Bromoethene	3.78	108	543351	10.095	ppbv 100
15) Acetone	3.89	43	1232795	8.524	ppbv 100
16) 1,3-Butadiene	3.36	39	577742	10.032	ppbv 98
17) tert-Butyl alcohol	4.35	59	1136750	9.721	ppbv 100
18) 1,1-Dichloroethene	4.35	96	597143	9.663	ppbv 98
19) Isopropyl Alcohol	4.02	45	794436	8.520	ppbv 99
20) Methylene Chloride	4.40	84	505496	9.078	ppbv 98
21) Allyl Chloride	4.47	41	884201	9.802	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	614291	9.698	ppbv 97
23) Vinyl Acetate	5.15	43	1921681	10.078	ppbv 99
24) 1,1-Dichloroethane	5.08	63	1353992	9.341	ppbv 98
25) Ethyl Acetate	5.76	43	2325639	9.154	ppbv 99
26) Hexane	5.77	57	1011677	9.263	ppbv 98
27) Carbon Disulfide	4.61	76	1533433	10.234	ppbv 99
28) Methyl tert-Butyl Ether	5.10	73	1765445	9.916	ppbv 99
29) Chloroform	5.84	83	1762148	8.759	ppbv 99
30) Cyclohexane	7.24	84	849567	9.253	ppbv 98
31) cis-1,2-Dichloroethene	5.63	61	1052046	9.715	ppbv 99
32) 1,1,1-Trichloroethane	6.61	97	1837285	9.146	ppbv 100
34) 2-Butanone	5.32	43	1544572	10.279	ppbv 99
35) Carbon Tetrachloride	7.13	117	1943130	10.007	ppbv 98
36) Benzene	7.00	78	2113808	9.586	ppbv 100
37) 1,2-Dichloroethane	6.41	62	1352363	9.507	ppbv 100
38) Trichloroethene	7.95	130	882740	10.788	ppbv 96
39) 1,2-Dichloropropane	7.73	63	796386	9.687	ppbv 99
40) 1,4-Dioxane	7.95	88	294332	8.558	ppbv # 96
41) Tetrahydrofuran	6.14	42	851455	10.114	ppbv 99
42) Bromodichloromethane	7.91	83	1946735	9.997	ppbv 97
43) Methyl Methacrylate	8.13	69	866263	10.675	ppbv 99

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

44) 2,2,4-Trimethylpentane	7.98	57	3587055	9.625	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1191673	11.583	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1320550	10.962	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	1007455	10.787	ppbv	99
48) Dibromochloromethane	10.44	129	1869196	11.551	ppbv	100
49) Bromoform	13.19	173	1673098	12.287	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2320962	10.042	ppbv	99
51) 2-Hexanone	10.26	43	2141802	11.874	ppbv #	99
52) Tetrachloroethene	11.37	164	909336	11.731	ppbv	98
53) Toluene	9.94	91	2786284	11.715	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1586604	11.132	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	1250859	9.348	ppbv	95
57) Chlorobenzene	12.29	112	2156499	9.060	ppbv	100
58) Ethyl Benzene	12.86	91	3852576	10.061	ppbv	99
59) m/p-Xylene	13.14	91	6392959m	19.098	ppbv	
60) o-Xylene	13.84	91	3259734	9.660	ppbv	99
61) Styrene	13.68	104	2416221	10.635	ppbv	100
62) Isopropylbenzene	14.82	105	4376530	9.631	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	2286099	9.316	ppbv	99
64) n-propylbenzene	15.71	120	1159818	9.867	ppbv	98
65) tert-Butylbenzene	16.90	119	4011558	9.669	ppbv	99
66) Benzyl Chloride	17.15	91	2103842	10.646	ppbv	100
67) sec-Butylbenzene	17.45	105	5615031	9.669	ppbv	100
69) p-Isopropyltoluene	17.81	119	4695171	9.782	ppbv	99
70) n-Butylbenzene	18.70	91	4839544	9.402	ppbv	100
71) 2-Chlorotoluene	15.61	91	3326887	9.868	ppbv	100
72) 4-Ethyltoluene	15.99	105	3904477	10.120	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3719601	9.881	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	3833572	9.357	ppbv	97
75) 1,3-Dichlorobenzene	17.15	146	2213105	8.815	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2192874	9.190	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	2172891	9.211	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1538988	8.629	ppbv	99
79) Naphthalene	22.40	128	3098433	8.142	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1379588	9.541	ppbv	99
81) 1,2,4-Trichlorobenzene	22.12	180	1760851	7.902	ppbv	99

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

