

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081219\
 Data File : VL034100.D
 Acq On : 12 Aug 2019 10:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 8/16/2019 8:54:12 AM

Quant Time: Aug 13 04:43:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 0
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1151527	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2313674	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2530262m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	2031584	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	1223198	8.631	ppbv 100
3) Chlorodifluoromethane	2.99	51	1196704	8.987	ppbv 98
4) Chloromethane	3.14	50	784124	9.134	ppbv 95
5) Vinyl Chloride	3.26	62	711354	9.405	ppbv 100
6) Bromomethane	3.48	94	371788	9.512	ppbv 96
7) Chloroethane	3.56	64	260649	9.198	ppbv 98
8) Dichlorotetrafluoroethane	3.19	85	1442882	8.826	ppbv 94
9) Propene	3.01	41	707746	9.016	ppbv 99
10) Heptane	8.19	43	1802169	8.875	ppbv 98
11) Trichlorofluoromethane	3.97	101	1501055	8.933	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1040851	8.779	ppbv 95
13) Ethanol	3.62	45	135824	6.139	ppbv 98
14) Bromoethene	3.75	108	480750	9.080	ppbv 99
15) Acetone	3.86	43	1308808	7.954	ppbv 99
16) 1,3-Butadiene	3.33	39	713887	8.921	ppbv 98
17) tert-Butyl alcohol	4.32	59	1355171	8.825	ppbv 100
18) 1,1-Dichloroethene	4.31	96	490465	8.747	ppbv 96
19) Isopropyl Alcohol	3.99	45	1093872	8.538	ppbv 99
20) Methylene Chloride	4.37	84	435473	8.825	ppbv 97
21) Allyl Chloride	4.44	41	993252	8.721	ppbv 99
22) trans-1,2-Dichloroethene	4.92	96	498407	9.147	ppbv 96
23) Vinyl Acetate	5.11	43	2361584	8.656	ppbv 99
24) 1,1-Dichloroethane	5.05	63	1469140	9.050	ppbv 100
25) Ethyl Acetate	5.72	43	2773898	8.570	ppbv 99
26) Hexane	5.73	57	1200549	8.751	ppbv 98
27) Carbon Disulfide	4.58	76	1330935	9.202	ppbv 99
28) Methyl tert-Butyl Ether	5.07	73	2027638	8.838	ppbv 99
29) Chloroform	5.80	83	1741439	9.338	ppbv 99
30) Cyclohexane	7.19	84	997593	9.205	ppbv 97
31) cis-1,2-Dichloroethene	5.60	61	1260932	9.305	ppbv 96
32) 1,1,1-Trichloroethane	6.57	97	1683266	9.120	ppbv 99
34) 2-Butanone	5.28	43	1973917	9.177	ppbv 98
35) Carbon Tetrachloride	7.08	117	1608763	9.059	ppbv 98
36) Benzene	6.96	78	2415906	9.187	ppbv 99
37) 1,2-Dichloroethane	6.36	62	1388610	9.815	ppbv 99
38) Trichloroethene	7.91	130	803642	7.891	ppbv 94
39) 1,2-Dichloropropane	7.68	63	1003282	9.455	ppbv 97
40) 1,4-Dioxane	7.90	88	382093	9.544	ppbv # 96
41) Tetrahydrofuran	6.10	42	1234322	9.328	ppbv 98
42) Bromodichloromethane	7.87	83	1907185	9.615	ppbv 97
43) Methyl Methacrylate	8.09	69	1028245	9.533	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	4059473	8.622	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1377141	10.071	ppbv	97
46) cis-1,3-Dichloropropene	8.79	75	1549036	9.816	ppbv	95
47) 1,1,2-Trichloroethane	9.56	97	975732	9.619	ppbv	96
48) Dibromochloromethane	10.40	129	1520871	9.351	ppbv	100
49) Bromoform	13.15	173	1361529	9.362	ppbv	99
50) 4-Methyl-2-Pentanone	8.81	43	2875990	8.785	ppbv	99
51) 2-Hexanone	10.22	43	2510966	9.127	ppbv #	100
52) Tetrachloroethene	11.31	164	795854	7.837	ppbv	92
53) Toluene	9.89	91	2715544	8.948	ppbv	99
54) 1,2-Dibromoethane	10.70	107	1417106	9.221	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.22	131	1006449	8.700	ppbv #	58
57) Chlorobenzene	12.24	112	1889721	8.293	ppbv	97
58) Ethyl Benzene	12.80	91	3606714	8.477	ppbv	98
59) m/p-Xylene	13.09	91	5767055m	16.886	ppbv	
60) o-Xylene	13.79	91	2832515	8.299	ppbv	99
61) Styrene	13.63	104	2331101	8.605	ppbv	99
62) Isopropylbenzene	14.77	105	3701079	8.079	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	2023181	8.206	ppbv	99
64) n-propylbenzene	15.66	120	984722	8.132	ppbv	94
65) tert-Butylbenzene	16.85	119	3185105	7.805	ppbv	96
66) Benzyl Chloride	17.10	91	2051553	9.082	ppbv	98
67) sec-Butylbenzene	17.40	105	4486540	7.790	ppbv	99
69) p-Isopropyltoluene	17.76	119	3678314	7.743	ppbv	98
70) n-Butylbenzene	18.66	91	4075301	7.953	ppbv	99
71) 2-Chlorotoluene	15.56	91	3046051	8.269	ppbv	99
72) 4-Ethyltoluene	15.94	105	3324864	8.277	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3181981	8.234	ppbv	95
74) 1,2,4-Trimethylbenzene	16.87	105	3140377	7.812	ppbv	97
75) 1,3-Dichlorobenzene	17.11	146	1788389	7.943	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	1833790	7.971	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1771139	7.979	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	1514912	8.609	ppbv	100
79) Naphthalene	22.34	128	3212869	7.696	ppbv	99
80) Naphthalene, 2-methyl-	25.07	142	1761333	13.453	ppbv	97
81) 1,2,4-Trichlorobenzene	22.06	180	1740250	7.509	ppbv	99

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

