

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033623.D
 Acq On : 2 May 2019 10:26
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:26 AM

Quant Time: May 03 03:43:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 03:43:47 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1152405	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2880858	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2872244m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2357657	10.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1780095	10.250	ppbv	98
3) Chlorodifluoromethane	3.01	51	1288434	9.351	ppbv	98
4) Chloromethane	3.17	50	720679	9.603	ppbv	99
5) Vinyl Chloride	3.29	62	712101	9.044	ppbv	97
6) Bromomethane	3.51	94	464852	10.032	ppbv	98
7) Chloroethane	3.60	64	270077	10.289	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1787660	9.461	ppbv	99
9) Propene	3.03	41	583594	14.792	ppbv	85
10) Heptane	8.24	43	1474852	10.109	ppbv	99
11) Trichlorofluoromethane	4.00	101	2071788	10.036	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1371030	9.684	ppbv	99
13) Ethanol	3.65	45	139169	7.780	ppbv	97
14) Bromoethene	3.79	108	585586	10.077	ppbv	98
15) Acetone	3.90	43	1316365	9.383	ppbv	100
16) 1,3-Butadiene	3.36	39	630785	9.990	ppbv	100
17) tert-Butyl alcohol	4.35	59	1353296	11.172	ppbv	100
18) 1,1-Dichloroethene	4.35	96	627171	10.194	ppbv	95
19) Isopropyl Alcohol	4.02	45	1080306	11.219	ppbv	# 98
20) Methylene Chloride	4.41	84	520252	9.515	ppbv	96
21) Allyl Chloride	4.47	41	933257	10.574	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	670289	11.124	ppbv	98
23) Vinyl Acetate	5.15	43	2208636	10.586	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1512682	9.739	ppbv	98
25) Ethyl Acetate	5.77	43	2532842	9.512	ppbv	99
26) Hexane	5.78	57	1118231	9.973	ppbv	97
27) Carbon Disulfide	4.62	76	1544599	11.375	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	2029379	10.733	ppbv	99
29) Chloroform	5.85	83	1898924	9.241	ppbv	98
30) Cyclohexane	7.24	84	986483	10.393	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1165672	10.301	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	1938504	9.013	ppbv	99
34) 2-Butanone	5.33	43	1719187	9.721	ppbv	100
35) Carbon Tetrachloride	7.13	117	2069758	9.069	ppbv	99
36) Benzene	7.00	78	2480607	10.106	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1447828	8.877	ppbv	99
38) Trichloroethene	7.96	130	955733	9.763	ppbv	98
39) 1,2-Dichloropropane	7.73	63	910815	9.840	ppbv	98
40) 1,4-Dioxane	7.95	88	402400	10.699	ppbv	# 1
41) Tetrahydrofuran	6.14	42	974729	10.320	ppbv	100
42) Bromodichloromethane	7.91	83	2108138	9.551	ppbv	97
43) Methyl Methacrylate	8.13	69	957644	10.303	ppbv	99

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44) 2,2,4-Trimethylpentane	7.99	57	3961816	9.261	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1337275	10.832	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1502131	10.787	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1002272	8.302	ppbv	97
48) Dibromochloromethane	10.45	129	1810791	8.869	ppbv	99
49) Bromoform	13.20	173	1601865	10.241	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2544612	9.182	ppbv	99
51) 2-Hexanone	10.26	43	2138805	8.790	ppbv #	99
52) Tetrachloroethene	11.37	164	943652	9.999	ppbv	99
53) Toluene	9.94	91	2843732	9.180	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1600484	9.639	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1212275	9.798	ppbv #	55
57) Chlorobenzene	12.30	112	2169562	9.842	ppbv	99
58) Ethyl Benzene	12.86	91	3877429	11.724	ppbv	100
59) m/p-Xylene	13.15	91	6440361m	22.635	ppbv	
60) o-Xylene	13.85	91	3172349	11.037	ppbv	100
61) Styrene	13.68	104	2444842	12.445	ppbv	99
62) Isopropylbenzene	14.82	105	4292262	11.175	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2124251	9.467	ppbv	99
64) n-propylbenzene	15.72	120	1090916	10.950	ppbv	98
65) tert-Butylbenzene	16.91	119	3758653	10.464	ppbv	99
66) Benzyl Chloride	17.15	91	2062237	12.660	ppbv	99
67) sec-Butylbenzene	17.45	105	5275277	10.457	ppbv	100
69) p-Isopropyltoluene	17.81	119	4420979	10.534	ppbv	99
70) n-Butylbenzene	18.71	91	4569412	10.004	ppbv	100
71) 2-Chlorotoluene	15.61	91	3139950	10.930	ppbv	99
72) 4-Ethyltoluene	16.00	105	3672122	11.217	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3466975	10.769	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	3613214	10.062	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	2135185	9.552	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2145652	10.067	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2062348	9.918	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1838903	11.566	ppbv	99
79) Naphthalene	22.41	128	4255353	12.850	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	2132913	14.857	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	2170855	11.304	ppbv	100

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

