

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031431.D
 Acq On : 23 Jan 2018 00:51
 Operator : SY/AP
 Sample : J1089-13
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-6

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:30 PM

Quant Time: Jan 23 10:29:28 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 23 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	1201073	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2725005	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2669897	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2161983	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.18	85	37441	0.22	ppbv	96
3) Chlorodifluoromethane	3.11	51	21857	0.14	ppbv	98
4) Chloromethane	3.27	50	9560	0.13	ppbv #	87
5) Vinyl Chloride	3.40	62	9324	0.14	ppbv #	84
6) Bromomethane	3.63	94	7959m	0.16	ppbv	
7) Chloroethane	3.72	64	3563m	0.12	ppbv	
8) Dichlorotetrafluoroethane	3.32	85	25944	0.14	ppbv	96
9) Propene	3.13	41	7357m	0.13	ppbv	
10) Heptane	8.40	43	15002	0.09	ppbv	100
11) Trichlorofluoromethane	4.13	101	32440	0.14	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.68	101	19936	0.14	ppbv	98
13) Ethanol	3.78	45	3645m	0.22	ppbv	
14) Bromoethene	3.91	108	7556	0.13	ppbv #	96
15) Acetone	4.04	43	32055	0.20	ppbv	98
16) 1,3-Butadiene	3.47	39	8321	0.12	ppbv	100
17) tert-Butyl alcohol	4.53	59	9967m	0.13	ppbv	
18) 1,1-Dichloroethene	4.48	96	8740	0.14	ppbv	85
19) Isopropyl Alcohol	4.17	45	11486	0.12	ppbv #	94
20) Methylene Chloride	4.54	84	16995	0.27	ppbv	87
21) Allyl Chloride	4.61	41	12001m	0.13	ppbv	
22) trans-1,2-Dichloroethene	5.10	96	9146m	0.14	ppbv	
23) Vinyl Acetate	5.31	43	22992m	0.12	ppbv	
24) 1,1-Dichloroethane	5.22	63	21399m	0.13	ppbv	
25) Ethyl Acetate	5.93	43	33341	0.12	ppbv #	97
26) Hexane	5.93	57	14347m	0.11	ppbv	
27) Carbon Disulfide	4.76	76	18234	0.11	ppbv #	57
28) Methyl tert-Butyl Ether	5.27	73	16426	0.11	ppbv	93
29) Chloroform	5.99	83	27403	0.13	ppbv	100
30) Cyclohexane	7.43	84	17334m	0.18	ppbv	
31) cis-1,2-Dichloroethene	5.79	61	13196m	0.11	ppbv	
32) 1,1,1-Trichloroethane	6.77	97	25335	0.12	ppbv	87
34) 2-Butanone	5.49	43	21963	0.13	ppbv	99
35) Carbon Tetrachloride	7.29	117	28892m	0.13	ppbv	
36) Benzene	7.16	78	25284	0.10	ppbv	98
37) 1,2-Dichloroethane	6.56	62	24306m	0.13	ppbv	
38) Trichloroethene	8.11	130	12200m	0.13	ppbv	
39) 1,2-Dichloropropane	7.90	63	11639m	0.13	ppbv	
40) 1,4-Dioxane	8.18	88	2941m	0.08	ppbv	
41) Tetrahydrofuran	6.33	42	9043m	0.09	ppbv	
42) Bromodichloromethane	8.07	83	28710m	0.13	ppbv	
43) Methyl Methacrylate	8.30	69	7396m	0.08	ppbv	

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44) 2,2,4-Trimethylpentane	8.16	57	36615	0.09	ppbv	# 84
45) t-1,3-Dichloropropene	9.58	75	8706	0.07	ppbv	# 85
46) cis-1,3-Dichloropropene	9.00	75	12521m	0.08	ppbv	
47) 1,1,2-Trichloroethane	9.77	97	13228m	0.12	ppbv	
48) Dibromochloromethane	10.61	129	21272m	0.11	ppbv	
49) Bromoform	13.37	173	13842m	0.10	ppbv	
50) 4-Methyl-2-Pentanone	9.08	43	20236m	0.09	ppbv	
51) 2-Hexanone	10.48	43	16657m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	10739m	0.12	ppbv	
53) Toluene	10.11	91	23443m	0.08	ppbv	
54) 1,2-Dibromoethane	10.93	107	18380m	0.11	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.45	131	16115m	0.13	ppbv	
57) Chlorobenzene	12.47	112	33459m	0.14	ppbv	
58) Ethyl Benzene	13.04	91	34668	0.09	ppbv	99
59) m/p-Xylene	13.31	91	62179m	0.19	ppbv	
60) o-Xylene	14.02	91	27067	0.08	ppbv	96
61) Styrene	13.85	104	5232m	0.07	ppbv	
62) Isopropylbenzene	14.99	105	39132m	0.09	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.01	83	29184m	0.13	ppbv	
64) n-propylbenzene	15.89	120	8792m	0.08	ppbv	
65) tert-Butylbenzene	17.08	119	28901m	0.08	ppbv	
66) Benzyl Chloride	17.34	91	3878m	0.10	ppbv	
67) sec-Butylbenzene	17.63	105	45513m	0.09	ppbv	
69) p-Isopropyltoluene	17.99	119	31491m	0.08	ppbv	
70) n-Butylbenzene	18.88	91	34938m	0.08	ppbv	
71) 2-Chlorotoluene	15.79	91	26813	0.08	ppbv	93
72) 4-Ethyltoluene	16.17	105	26169m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.33	105	23653	0.08	ppbv	94
74) 1,2,4-Trimethylbenzene	17.09	105	27423m	0.08	ppbv	
75) 1,3-Dichlorobenzene	17.34	146	27757m	0.13	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	22473m	0.11	ppbv	
77) 1,2-Dichlorobenzene	18.16	146	22821m	0.11	ppbv	
78) Hexachloro-1,3-Butadiene	23.71	225	12163m	0.17	ppbv	
79) Naphthalene	22.63	128	14979m	0.07	ppbv	
80) Naphthalene, 2-methyl-	25.26	142	3218m	0.05	ppbv	
81) 1,2,4-Trichlorobenzene	22.35	180	10828m	0.10	ppbv	

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

