

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031432.D
 Acq On : 23 Jan 2018 1:28
 Operator : SY/AP
 Sample : J1089-14
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-7

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:32 PM

Quant Time: Jan 23 07:11:22 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	1183548	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2657539	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2620556	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2178676	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	36084	0.22	ppbv	98
3) Chlorodifluoromethane	3.12	51	20541	0.13	ppbv	97
4) Chloromethane	3.27	50	8855m	0.13	ppbv	
5) Vinyl Chloride	3.40	62	9368m	0.14	ppbv	
6) Bromomethane	3.63	94	6131m	0.12	ppbv	
7) Chloroethane	3.71	64	3996m	0.14	ppbv	
8) Dichlorotetrafluoroethane	3.32	85	25153	0.13	ppbv	96
9) Propene	3.14	41	6489	0.12	ppbv	98
10) Heptane	8.41	43	14213	0.08	ppbv #	77
11) Trichlorofluoromethane	4.13	101	31800	0.14	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.68	101	19435	0.14	ppbv	100
13) Ethanol	3.78	45	3530	0.21	ppbv	87
14) Bromoethene	3.91	108	7717	0.14	ppbv #	96
15) Acetone	4.04	43	29345	0.19	ppbv	98
16) 1,3-Butadiene	3.47	39	7037m	0.11	ppbv	
17) tert-Butyl alcohol	4.52	59	9490m	0.12	ppbv	
18) 1,1-Dichloroethene	4.48	96	8463	0.14	ppbv	89
19) Isopropyl Alcohol	4.18	45	12210	0.12	ppbv #	97
20) Methylene Chloride	4.53	84	15967	0.26	ppbv #	78
21) Allyl Chloride	4.61	41	12282m	0.13	ppbv	
22) trans-1,2-Dichloroethene	5.10	96	8618m	0.13	ppbv	
23) Vinyl Acetate	5.31	43	21586m	0.11	ppbv	
24) 1,1-Dichloroethane	5.23	63	21606	0.13	ppbv	98
25) Ethyl Acetate	5.93	43	33159	0.12	ppbv #	97
26) Hexane	5.93	57	14800	0.12	ppbv	89
27) Carbon Disulfide	4.76	76	20282	0.12	ppbv #	86
28) Methyl tert-Butyl Ether	5.28	73	15679m	0.11	ppbv	
29) Chloroform	5.99	83	26957	0.13	ppbv	84
30) Cyclohexane	7.43	84	17339m	0.18	ppbv	
31) cis-1,2-Dichloroethene	5.78	61	12899m	0.11	ppbv	
32) 1,1,1-Trichloroethane	6.77	97	25602m	0.12	ppbv	
34) 2-Butanone	5.49	43	22503m	0.13	ppbv	
35) Carbon Tetrachloride	7.29	117	27551m	0.13	ppbv	
36) Benzene	7.16	78	24563	0.10	ppbv #	91
37) 1,2-Dichloroethane	6.56	62	23307	0.13	ppbv	98
38) Trichloroethene	8.12	130	12624m	0.14	ppbv	
39) 1,2-Dichloropropane	7.89	63	11293m	0.13	ppbv	
40) 1,4-Dioxane	8.18	88	3643m	0.10	ppbv	
41) Tetrahydrofuran	6.34	42	9069m	0.10	ppbv	
42) Bromodichloromethane	8.07	83	25718	0.12	ppbv	97
43) Methyl Methacrylate	8.31	69	6971m	0.08	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	36072m	0.09	ppbv	
45) t-1,3-Dichloropropene	9.58	75	9715m	0.08	ppbv	
46) cis-1,3-Dichloropropene	8.99	75	12835m	0.08	ppbv	
47) 1,1,2-Trichloroethane	9.77	97	12768m	0.12	ppbv	
48) Dibromochloromethane	10.62	129	21159	0.11	ppbv	92
49) Bromoform	13.37	173	15381m	0.11	ppbv	
50) 4-Methyl-2-Pentanone	9.08	43	17831m	0.08	ppbv	
51) 2-Hexanone	10.47	43	16268m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	10485m	0.12	ppbv	
53) Toluene	10.11	91	23653m	0.08	ppbv	
54) 1,2-Dibromoethane	10.93	107	16886	0.10	ppbv	88
56) 1,1,1,2-Tetrachloroethane	12.44	131	16949m	0.14	ppbv	
57) Chlorobenzene	12.47	112	30197m	0.13	ppbv	
58) Ethyl Benzene	13.03	91	33008m	0.09	ppbv	
59) m/p-Xylene	13.31	91	63662m	0.19	ppbv	
60) o-Xylene	14.02	91	26952	0.08	ppbv	97
61) Styrene	13.85	104	5303m	0.07	ppbv	
62) Isopropylbenzene	14.99	105	40856m	0.10	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.01	83	26739m	0.12	ppbv	
64) n-propylbenzene	15.90	120	8579m	0.08	ppbv	
65) tert-Butylbenzene	17.08	119	28165m	0.08	ppbv	
66) Benzyl Chloride	17.32	91	3225m	0.09	ppbv	
67) sec-Butylbenzene	17.62	105	44895m	0.09	ppbv	
69) p-Isopropyltoluene	17.98	119	31926m	0.08	ppbv	
70) n-Butylbenzene	18.89	91	34617m	0.08	ppbv	
71) 2-Chlorotoluene	15.78	91	29942m	0.10	ppbv	
72) 4-Ethyltoluene	16.16	105	26131m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.32	105	26172m	0.09	ppbv	
74) 1,2,4-Trimethylbenzene	17.09	105	28523m	0.09	ppbv	
75) 1,3-Dichlorobenzene	17.34	146	28130m	0.14	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	23248m	0.11	ppbv	
77) 1,2-Dichlorobenzene	18.17	146	22507m	0.11	ppbv	
78) Hexachloro-1,3-Butadiene	23.70	225	11864	0.17	ppbv	94
79) Naphthalene	22.62	128	13802m	0.07	ppbv	
80) Naphthalene, 2-methyl-	25.26	142	3078	0.05	ppbv	95
81) 1,2,4-Trichlorobenzene	22.35	180	10874m	0.10	ppbv	

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

