

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031428.D
 Acq On : 22 Jan 2018 23:03
 Operator : SY/AP
 Sample : J1089-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-3

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:25 PM

Quant Time: Jan 23 10:27:39 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 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	1166223	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2662057	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2629637	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2154570	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.17	85	34656	0.21	ppbv	# 81
3) Chlorodifluoromethane	3.11	51	21437	0.14	ppbv	97
4) Chloromethane	3.28	50	10094m	0.15	ppbv	
5) Vinyl Chloride	3.40	62	8969	0.14	ppbv	97
6) Bromomethane	3.62	94	7150m	0.15	ppbv	
7) Chloroethane	3.72	64	4177	0.15	ppbv	# 88
8) Dichlorotetrafluoroethane	3.32	85	27768	0.15	ppbv	100
9) Propene	3.14	41	6944	0.13	ppbv	96
10) Heptane	8.40	43	15145	0.09	ppbv	95
11) Trichlorofluoromethane	4.13	101	30264	0.14	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	17947	0.13	ppbv	100
13) Ethanol	3.78	45	3799m	0.23	ppbv	
14) Bromoethene	3.90	108	6717	0.12	ppbv	93
15) Acetone	4.05	43	28493	0.18	ppbv	91
16) 1,3-Butadiene	3.47	39	9250	0.14	ppbv	86
17) tert-Butyl alcohol	4.52	59	9389m	0.12	ppbv	
18) 1,1-Dichloroethene	4.48	96	7955	0.13	ppbv	88
19) Isopropyl Alcohol	4.17	45	13296m	0.14	ppbv	
20) Methylene Chloride	4.54	84	15873	0.26	ppbv	# 96
21) Allyl Chloride	4.60	41	11349	0.12	ppbv	89
22) trans-1,2-Dichloroethene	5.10	96	8950	0.14	ppbv	# 92
23) Vinyl Acetate	5.31	43	23185m	0.12	ppbv	
24) 1,1-Dichloroethane	5.22	63	22063	0.13	ppbv	# 98
25) Ethyl Acetate	5.93	43	33352	0.12	ppbv	# 97
26) Hexane	5.92	57	15175	0.12	ppbv	94
27) Carbon Disulfide	4.75	76	19085	0.12	ppbv	# 52
28) Methyl tert-Butyl Ether	5.28	73	16569m	0.11	ppbv	
29) Chloroform	5.99	83	28232	0.13	ppbv	92
30) Cyclohexane	7.42	84	17289m	0.18	ppbv	
31) cis-1,2-Dichloroethene	5.78	61	13391	0.12	ppbv	# 81
32) 1,1,1-Trichloroethane	6.77	97	26847	0.13	ppbv	96
34) 2-Butanone	5.49	43	19137	0.11	ppbv	96
35) Carbon Tetrachloride	7.29	117	28103m	0.13	ppbv	
36) Benzene	7.16	78	26150	0.11	ppbv	# 93
37) 1,2-Dichloroethane	6.56	62	24126	0.13	ppbv	99
38) Trichloroethene	8.12	130	12771m	0.14	ppbv	
39) 1,2-Dichloropropane	7.89	63	9373	0.11	ppbv	90
40) 1,4-Dioxane	8.20	88	3991m	0.11	ppbv	
41) Tetrahydrofuran	6.33	42	9646m	0.10	ppbv	
42) Bromodichloromethane	8.07	83	28177m	0.13	ppbv	
43) Methyl Methacrylate	8.31	69	8229m	0.10	ppbv	

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

44) 2,2,4-Trimethylpentane	8.15	57	37691m	0.09	ppbv	
45) t-1,3-Dichloropropene	9.57	75	11068m	0.09	ppbv	
46) cis-1,3-Dichloropropene	8.99	75	12506	0.08	ppbv	# 84
47) 1,1,2-Trichloroethane	9.77	97	12825m	0.12	ppbv	
48) Dibromochloromethane	10.62	129	20556	0.11	ppbv	98
49) Bromoform	13.38	173	14698m	0.10	ppbv	
50) 4-Methyl-2-Pentanone	9.06	43	20909m	0.09	ppbv	
51) 2-Hexanone	10.48	43	17065m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	10959m	0.12	ppbv	
53) Toluene	10.11	91	23654	0.08	ppbv	98
54) 1,2-Dibromoethane	10.93	107	17415m	0.11	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.45	131	17414m	0.14	ppbv	
57) Chlorobenzene	12.47	112	30578m	0.13	ppbv	
58) Ethyl Benzene	13.03	91	35648	0.09	ppbv	97
59) m/p-Xylene	13.32	91	64209m	0.19	ppbv	
60) o-Xylene	14.02	91	28046m	0.09	ppbv	
61) Styrene	13.85	104	5505m	0.08	ppbv	
62) Isopropylbenzene	15.00	105	41162m	0.10	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.01	83	28369m	0.12	ppbv	
64) n-propylbenzene	15.89	120	8866m	0.09	ppbv	
65) tert-Butylbenzene	17.08	119	30151m	0.08	ppbv	
66) Benzyl Chloride	17.32	91	4437m	0.12	ppbv	
67) sec-Butylbenzene	17.62	105	47483	0.09	ppbv	99
69) p-Isopropyltoluene	17.98	119	32511m	0.08	ppbv	
70) n-Butylbenzene	18.88	91	36753m	0.09	ppbv	
71) 2-Chlorotoluene	15.79	91	29528	0.09	ppbv	99
72) 4-Ethyltoluene	16.17	105	28231m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.33	105	25722m	0.08	ppbv	
74) 1,2,4-Trimethylbenzene	17.09	105	29045m	0.09	ppbv	
75) 1,3-Dichlorobenzene	17.34	146	26902m	0.13	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	20962	0.10	ppbv	84
77) 1,2-Dichlorobenzene	18.16	146	22186m	0.11	ppbv	
78) Hexachloro-1,3-Butadiene	23.71	225	13281m	0.19	ppbv	
79) Naphthalene	22.61	128	16276m	0.08	ppbv	
80) Naphthalene, 2-methyl-	25.26	142	3333	0.06	ppbv	96
81) 1,2,4-Trichlorobenzene	22.33	180	11577m	0.10	ppbv	

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

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