

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031430.D
 Acq On : 23 Jan 2018 00:15
 Operator : SY/AP
 Sample : J1089-12
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-5

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:28 PM

Quant Time: Jan 23 10:28:58 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	5.91	49	1196019	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2698795	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2666448	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.74	95	2182695	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	36219	0.21	ppbv	97
3) Chlorodifluoromethane	3.11	51	21591	0.14	ppbv	100
4) Chloromethane	3.28	50	9914m	0.14	ppbv	
5) Vinyl Chloride	3.40	62	9049m	0.13	ppbv	
6) Bromomethane	3.63	94	6882m	0.14	ppbv	
7) Chloroethane	3.71	64	3955m	0.14	ppbv	
8) Dichlorotetrafluoroethane	3.33	85	26913	0.14	ppbv	98
9) Propene	3.14	41	6778m	0.12	ppbv	
10) Heptane	8.40	43	14537m	0.08	ppbv	
11) Trichlorofluoromethane	4.12	101	29851	0.13	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.68	101	20407	0.14	ppbv	99
13) Ethanol	3.78	45	3139m	0.19	ppbv	
14) Bromoethene	3.91	108	7715	0.13	ppbv	92
15) Acetone	4.04	43	30767	0.19	ppbv	99
16) 1,3-Butadiene	3.48	39	7149	0.11	ppbv	87
17) tert-Butyl alcohol	4.52	59	10153m	0.13	ppbv	
18) 1,1-Dichloroethene	4.48	96	8261m	0.13	ppbv	
19) Isopropyl Alcohol	4.17	45	12695	0.13	ppbv #	97
20) Methylene Chloride	4.54	84	15920m	0.26	ppbv	
21) Allyl Chloride	4.61	41	12719	0.13	ppbv	95
22) trans-1,2-Dichloroethene	5.10	96	9415	0.15	ppbv	87
23) Vinyl Acetate	5.30	43	19344	0.10	ppbv #	95
24) 1,1-Dichloroethane	5.23	63	22397m	0.13	ppbv	
25) Ethyl Acetate	5.93	43	33377	0.12	ppbv	98
26) Hexane	5.92	57	15956	0.13	ppbv	94
27) Carbon Disulfide	4.76	76	19954	0.12	ppbv #	74
28) Methyl tert-Butyl Ether	5.28	73	15353	0.10	ppbv	98
29) Chloroform	5.99	83	28235	0.13	ppbv	87
30) Cyclohexane	7.41	84	15170m	0.16	ppbv	
31) cis-1,2-Dichloroethene	5.77	61	12294m	0.10	ppbv	
32) 1,1,1-Trichloroethane	6.77	97	27150	0.13	ppbv	97
34) 2-Butanone	5.50	43	21735	0.13	ppbv	97
35) Carbon Tetrachloride	7.29	117	29441m	0.13	ppbv	
36) Benzene	7.16	78	26104	0.11	ppbv	96
37) 1,2-Dichloroethane	6.56	62	24541	0.13	ppbv	99
38) Trichloroethene	8.12	130	12359m	0.13	ppbv	
39) 1,2-Dichloropropane	7.89	63	9197	0.10	ppbv #	89
40) 1,4-Dioxane	8.19	88	3795m	0.10	ppbv	
41) Tetrahydrofuran	6.33	42	8401	0.09	ppbv	97
42) Bromodichloromethane	8.07	83	28342m	0.13	ppbv	
43) Methyl Methacrylate	8.31	69	7183m	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	36930m	0.09	ppbv	
45) t-1,3-Dichloropropene	9.58	75	9282m	0.07	ppbv	
46) cis-1,3-Dichloropropene	8.99	75	12765m	0.08	ppbv	
47) 1,1,2-Trichloroethane	9.79	97	13071m	0.12	ppbv	
48) Dibromochloromethane	10.61	129	21072m	0.11	ppbv	
49) Bromoform	13.37	173	14780m	0.10	ppbv	
50) 4-Methyl-2-Pentanone	9.07	43	19443m	0.08	ppbv	
51) 2-Hexanone	10.47	43	17558m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	10512m	0.12	ppbv	
53) Toluene	10.11	91	23794	0.08	ppbv	99
54) 1,2-Dibromoethane	10.92	107	18767m	0.11	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.44	131	16352m	0.13	ppbv	
57) Chlorobenzene	12.47	112	30440	0.13	ppbv	94
58) Ethyl Benzene	13.03	91	34849m	0.09	ppbv	
59) m/p-Xylene	13.32	91	60916m	0.18	ppbv	
60) o-Xylene	14.02	91	28251	0.08	ppbv	98
61) Styrene	13.85	104	5630m	0.08	ppbv	
62) Isopropylbenzene	14.99	105	42876m	0.10	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.00	83	28075m	0.12	ppbv	
64) n-propylbenzene	15.89	120	7914m	0.08	ppbv	
65) tert-Butylbenzene	17.08	119	29849m	0.08	ppbv	
66) Benzyl Chloride	17.33	91	3632m	0.10	ppbv	
67) sec-Butylbenzene	17.63	105	47211m	0.09	ppbv	
69) p-Isopropyltoluene	17.98	119	33130m	0.08	ppbv	
70) n-Butylbenzene	18.89	91	35293	0.08	ppbv	95
71) 2-Chlorotoluene	15.78	91	28924	0.09	ppbv	96
72) 4-Ethyltoluene	16.17	105	27325m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.33	105	24992	0.08	ppbv	91
74) 1,2,4-Trimethylbenzene	17.10	105	29563	0.09	ppbv #	85
75) 1,3-Dichlorobenzene	17.34	146	29335m	0.14	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	23446m	0.11	ppbv	
77) 1,2-Dichlorobenzene	18.16	146	23801m	0.12	ppbv	
78) Hexachloro-1,3-Butadiene	23.70	225	12823m	0.18	ppbv	
79) Naphthalene	22.62	128	14917m	0.07	ppbv	
80) Naphthalene, 2-methyl-	25.26	142	3685	0.06	ppbv	88
81) 1,2,4-Trichlorobenzene	22.34	180	11386m	0.10	ppbv	

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

