

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034312.D
 Acq On : 17 Oct 2019 00:40
 Operator : SY/AP
 Sample : K5111-13 0.1 PPB LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:05:07 PM

Quant Time: Oct 17 14:43:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 14:43:56 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1039307	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.23	114	1969320	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.17	117	1972486	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1719394	10.29	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	26073	0.146 ppbv	97
3) Chlorodifluoromethane	2.98	51	15292	0.126 ppbv	98
4) Chloromethane	3.14	50	9554m	0.133 ppbv	
5) Vinyl Chloride	3.26	62	7190m	0.105 ppbv	
6) Bromomethane	3.47	94	4436	0.132 ppbv #	58
7) Chloroethane	3.55	64	2729m	0.113 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	17542	0.113 ppbv	87
9) Propene	3.00	41	6609m	0.122 ppbv	
10) Heptane	8.19	43	10430m	0.075 ppbv	
11) Trichlorofluoromethane	3.96	101	21346	0.125 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.50	101	13856m	0.124 ppbv	
13) Ethanol	3.63	45	1871m	0.155 ppbv	
14) Bromoethene	3.75	108	4689m	0.107 ppbv	
15) Acetone	3.88	43	36237	0.244 ppbv	92
16) 1,3-Butadiene	3.33	39	7357m	0.122 ppbv	
17) tert-Butyl alcohol	4.34	59	12829m	0.135 ppbv	
18) 1,1-Dichloroethene	4.31	96	5102m	0.105 ppbv	
19) Isopropyl Alcohol	4.01	45	11237	0.136 ppbv #	86
20) Methylene Chloride	4.36	84	10582m	0.197 ppbv	
21) Allyl Chloride	4.43	41	7612	0.093 ppbv #	61
22) trans-1,2-Dichloroethene	4.92	96	5926	0.122 ppbv #	86
23) Vinyl Acetate	5.11	43	17368	0.094 ppbv #	75
24) 1,1-Dichloroethane	5.04	63	14862	0.108 ppbv #	91
25) Ethyl Acetate	5.73	43	27590m	0.110 ppbv	
26) Hexane	5.73	57	9639	0.090 ppbv #	66
27) Carbon Disulfide	4.57	76	11269m	0.101 ppbv	
28) Methyl tert-Butyl Ether	5.08	73	13749m	0.085 ppbv	
29) Chloroform	5.78	83	18611m	0.110 ppbv	
30) Cyclohexane	7.23	84	12177m	0.155 ppbv	
31) cis-1,2-Dichloroethene	5.58	61	10107m	0.093 ppbv	
32) 1,1,1-Trichloroethane	6.56	97	15168	0.092 ppbv #	86
34) 2-Butanone	5.30	43	15716m	0.098 ppbv	
35) Carbon Tetrachloride	7.08	117	18536m	0.108 ppbv	
36) Benzene	6.94	78	18037m	0.095 ppbv	
37) 1,2-Dichloroethane	6.36	62	17306m	0.123 ppbv	
38) Trichloroethene	7.89	130	8317m	0.110 ppbv	
39) 1,2-Dichloropropane	7.67	63	8589m	0.106 ppbv	
40) 1,4-Dioxane	7.98	88	2780m	0.097 ppbv	
41) Tetrahydrofuran	6.13	42	7241m	0.081 ppbv	
42) Bromodichloromethane	7.84	83	17921m	0.104 ppbv	
43) Methyl Methacrylate	8.08	69	6049m	0.077 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	24808	0.071	ppbv	# 70
45) t-1,3-Dichloropropene	9.36	75	5690m	0.060	ppbv	
46) cis-1,3-Dichloropropene	8.76	75	7625m	0.070	ppbv	
47) 1,1,2-Trichloroethane	9.55	97	9485m	0.115	ppbv	
48) Dibromochloromethane	10.38	129	11499m	0.085	ppbv	
49) Bromoform	13.13	173	9313m	0.078	ppbv	
50) 4-Methyl-2-Pentanone	8.85	43	18160m	0.079	ppbv	
51) 2-Hexanone	10.24	43	13621m	0.072	ppbv	
52) Tetrachloroethene	11.29	164	6747m	0.091	ppbv	
53) Toluene	9.87	91	16084m	0.077	ppbv	
54) 1,2-Dibromoethane	10.70	107	12526m	0.103	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.21	131	10173m	0.112	ppbv	
57) Chlorobenzene	12.23	112	20023m	0.122	ppbv	
58) Ethyl Benzene	12.79	91	22379m	0.081	ppbv	
59) m/p-Xylene	13.08	91	41085m	0.172	ppbv	
60) o-Xylene	13.78	91	19073m	0.080	ppbv	
61) Styrene	13.62	104	10242m	0.061	ppbv	
62) Isopropylbenzene	14.75	105	27846m	0.089	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	20189m	0.106	ppbv	
64) n-propylbenzene	15.66	120	5164m	0.064	ppbv	
65) tert-Butylbenzene	16.84	119	18438m	0.066	ppbv	
66) Benzyl Chloride	17.09	91	8873m	0.081	ppbv	
67) sec-Butylbenzene	17.40	105	28057m	0.072	ppbv	
69) p-Isopropyltoluene	17.75	119	19639m	0.062	ppbv	
70) n-Butylbenzene	18.66	91	24116m	0.069	ppbv	
71) 2-Chlorotoluene	15.54	91	18514m	0.076	ppbv	
72) 4-Ethyltoluene	15.93	105	20107m	0.075	ppbv	
73) 1,3,5-Trimethylbenzene	16.09	105	19046m	0.072	ppbv	
74) 1,2,4-Trimethylbenzene	16.86	105	20714m	0.075	ppbv	
75) 1,3-Dichlorobenzene	17.10	146	18658m	0.112	ppbv	
76) 1,4-Dichlorobenzene	17.25	146	16242m	0.100	ppbv	
77) 1,2-Dichlorobenzene	17.92	146	16676m	0.103	ppbv	
78) Hexachloro-1,3-Butadiene	23.48	225	14079m	0.105	ppbv	
79) Naphthalene	22.34	128	10032m	0.050	ppbv	
80) Naphthalene, 2-methyl-	25.09	142	1785m	0.031	ppbv	
81) 1,2,4-Trichlorobenzene	22.09	180	10707m	0.081	ppbv	

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

