

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041719\
 Data File : VL033605.D
 Acq On : 17 Apr 2019 16:53
 Operator : SY/AP
 Sample : K2241-15 0.4 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT2-2019

Quant Time: Apr 22 11:21:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	766534	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1873447	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1894626	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1542860	10.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	59543	0.533	ppbv	93
3) Chlorodifluoromethane	3.02	51	37712	0.427	ppbv	97
4) Chloromethane	3.17	50	21187	0.454	ppbv	91
5) Vinyl Chloride	3.29	62	19009	0.414	ppbv	99
6) Bromomethane	3.52	94	12796	0.434	ppbv #	74
7) Chloroethane	3.60	64	7073	0.414	ppbv	89
8) Dichlorotetrafluoroethane	3.22	85	54279	0.456	ppbv	100
9) Propene	3.04	41	13367m	0.361	ppbv	
10) Heptane	8.25	43	29257m	0.295	ppbv	
11) Trichlorofluoromethane	4.00	101	62230	0.452	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.55	101	42588	0.460	ppbv	97
13) Ethanol	3.66	45	5869m	0.612	ppbv	
14) Bromoethene	3.79	108	15368	0.416	ppbv	99
15) Acetone	3.91	43	51073	0.554	ppbv	96
16) 1,3-Butadiene	3.37	39	16686m	0.456	ppbv	
17) tert-Butyl alcohol	4.38	59	7850m	0.463	ppbv	
18) 1,1-Dichloroethene	4.35	96	16783	0.422	ppbv #	88
19) Isopropyl Alcohol	4.04	45	27769	0.476	ppbv #	92
20) Methylene Chloride	4.41	84	20840	0.533	ppbv	95
21) Allyl Chloride	4.48	41	22227	0.381	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	17629m	0.425	ppbv	
23) Vinyl Acetate	5.15	43	44523m	0.339	ppbv	
24) 1,1-Dichloroethane	5.09	63	41182	0.413	ppbv	99
25) Ethyl Acetate	5.77	43	60342	0.353	ppbv	100
26) Hexane	5.78	57	26465	0.348	ppbv #	92
27) Carbon Disulfide	4.62	76	32703m	0.362	ppbv	
28) Methyl tert-Butyl Ether	5.13	73	32768	0.299	ppbv	93
29) Chloroform	5.84	83	51546	0.395	ppbv	85
30) Cyclohexane	7.25	84	17099	0.284	ppbv #	26
31) cis-1,2-Dichloroethene	5.64	61	23223	0.307	ppbv #	78
32) 1,1,1-Trichloroethane	6.61	97	47744m	0.385	ppbv	
34) 2-Butanone	5.34	43	37166	0.330	ppbv	99
35) Carbon Tetrachloride	7.13	117	51491	0.388	ppbv	98
36) Benzene	7.00	78	48414	0.308	ppbv	99
37) 1,2-Dichloroethane	6.41	62	37964	0.360	ppbv	99
38) Trichloroethene	7.95	130	20998	0.355	ppbv	86
39) 1,2-Dichloropropane	7.73	63	20422	0.332	ppbv	93
40) 1,4-Dioxane	8.00	88	7532m	0.343	ppbv	
41) Tetrahydrofuran	6.17	42	15457m	0.250	ppbv	
42) Bromodichloromethane	7.91	83	48439	0.338	ppbv #	83
43) Methyl Methacrylate	8.14	69	15396	0.241	ppbv	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	80533	0.293	ppbv	91
45) t-1,3-Dichloropropene	9.41	75	19228m	0.245	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	22779	0.249	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	23665	0.338	ppbv #	78
48) Dibromochloromethane	10.45	129	36894	0.313	ppbv	98
49) Bromoform	13.20	173	30435m	0.270	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	45040	0.273	ppbv	93
51) 2-Hexanone	10.29	43	28803m	0.234	ppbv	
52) Tetrachloroethene	11.37	164	19279m	0.325	ppbv	
53) Toluene	9.95	91	44450m	0.243	ppbv	
54) 1,2-Dibromoethane	10.75	107	35437	0.324	ppbv #	80
56) 1,1,1,2-Tetrachloroethane	12.27	131	32475m	0.374	ppbv	
57) Chlorobenzene	12.29	112	55007	0.374	ppbv #	83
58) Ethyl Benzene	12.86	91	62669	0.248	ppbv	98
59) m/p-Xylene	13.15	91	120384m	0.533	ppbv	
60) o-Xylene	13.85	91	60401	0.276	ppbv	99
61) Styrene	13.69	104	30164m	0.201	ppbv	
62) Isopropylbenzene	14.82	105	91464	0.296	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	59494	0.370	ppbv	98
64) n-propylbenzene	15.72	120	20123m	0.256	ppbv	
65) tert-Butylbenzene	16.91	119	75250m	0.276	ppbv	
66) Benzyl Chloride	17.15	91	33015m	0.260	ppbv	
67) sec-Butylbenzene	17.46	105	116725	0.301	ppbv	100
69) p-Isopropyltoluene	17.81	119	78176	0.248	ppbv	97
70) n-Butylbenzene	18.72	91	85415m	0.255	ppbv	
71) 2-Chlorotoluene	15.61	91	61633	0.262	ppbv	97
72) 4-Ethyltoluene	16.00	105	59165	0.241	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.15	105	58989	0.251	ppbv #	81
74) 1,2,4-Trimethylbenzene	16.92	105	71170	0.282	ppbv	90
75) 1,3-Dichlorobenzene	17.16	146	61209m	0.393	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	47841	0.315	ppbv	94
77) 1,2-Dichlorobenzene	17.99	146	48420m	0.328	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	41401	0.423	ppbv	98
79) Naphthalene	22.41	128	23991m	0.111	ppbv	
81) 1,2,4-Trichlorobenzene	22.13	180	21395m	0.179	ppbv	

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

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