

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033666.D
 Acq On : 6 May 2019 19:48
 Operator : SY/AP
 Sample : K2241-13 0.4PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:58 PM

Quant Time: May 07 05:32:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 07 05:32:14 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	960294	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2323912	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2248718	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1936316	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	95681	0.425	ppbv	93
3) Chlorodifluoromethane	3.01	51	53616m	0.387	ppbv	
4) Chloromethane	3.17	50	29603	0.411	ppbv	99
5) Vinyl Chloride	3.29	62	26421	0.377	ppbv	96
6) Bromomethane	3.52	94	17926	0.403	ppbv	89
7) Chloroethane	3.60	64	10333m	0.406	ppbv	
8) Dichlorotetrafluoroethane	3.22	85	79488	0.429	ppbv	96
9) Propene	3.04	41	19010	0.360	ppbv	95
10) Heptane	8.24	43	42499	0.326	ppbv	98
11) Trichlorofluoromethane	4.00	101	86280	0.410	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	56820	0.402	ppbv	99
13) Ethanol	3.66	45	7484m	0.472	ppbv	
14) Bromoethene	3.78	108	20040m	0.360	ppbv	
15) Acetone	3.91	43	61013	0.427	ppbv	95
16) 1,3-Butadiene	3.36	39	20905	0.341	ppbv	96
17) tert-Butyl alcohol	4.37	59	43322	0.399	ppbv	100
18) 1,1-Dichloroethene	4.35	96	22479m	0.368	ppbv	
19) Isopropyl Alcohol	4.03	45	35846	0.408	ppbv #	88
20) Methylene Chloride	4.41	84	23017	0.424	ppbv	92
21) Allyl Chloride	4.47	41	31356	0.363	ppbv	92
22) trans-1,2-Dichloroethene	4.97	96	23593m	0.385	ppbv	
23) Vinyl Acetate	5.15	43	52654	0.284	ppbv #	90
24) 1,1-Dichloroethane	5.09	63	53855	0.384	ppbv #	95
25) Ethyl Acetate	5.77	43	94840	0.408	ppbv	99
26) Hexane	5.78	57	38056m	0.381	ppbv	
27) Carbon Disulfide	4.62	76	46551	0.341	ppbv #	71
28) Methyl tert-Butyl Ether	5.12	73	48560	0.289	ppbv	97
29) Chloroform	5.84	83	79808	0.444	ppbv	95
30) Cyclohexane	7.25	84	26381m	0.314	ppbv	
31) cis-1,2-Dichloroethene	5.63	61	34635	0.348	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	73881	0.398	ppbv	97
34) 2-Butanone	5.34	43	44304	0.298	ppbv	99
35) Carbon Tetrachloride	7.13	117	81336	0.426	ppbv	90
36) Benzene	7.00	78	65172	0.313	ppbv	97
37) 1,2-Dichloroethane	6.41	62	55942	0.385	ppbv	97
38) Trichloroethene	7.96	130	29052m	0.380	ppbv	
39) 1,2-Dichloropropane	7.73	63	28954m	0.373	ppbv	
40) 1,4-Dioxane	7.99	88	12227m	0.394	ppbv	
41) Tetrahydrofuran	6.17	42	22174	0.288	ppbv	99
42) Bromodichloromethane	7.91	83	73724	0.393	ppbv	86
43) Methyl Methacrylate	8.14	69	22023m	0.281	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	119960m	0.337	ppbv	
45) t-1,3-Dichloropropene	9.41	75	24743m	0.257	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	31308	0.261	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	35602m	0.399	ppbv	
48) Dibromochloromethane	10.44	129	52839	0.349	ppbv	96
49) Bromoform	13.20	173	44299	0.337	ppbv	98
50) 4-Methyl-2-Pentanone	8.88	43	73516	0.326	ppbv	93
51) 2-Hexanone	10.29	43	49459m	0.283	ppbv	
52) Tetrachloroethene	11.37	164	26628	0.361	ppbv	93
53) Toluene	9.94	91	61915	0.275	ppbv	92
54) 1,2-Dibromoethane	10.75	107	48609	0.362	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.27	131	44679	0.431	ppbv #	1
57) Chlorobenzene	12.29	112	79937	0.433	ppbv	98
58) Ethyl Benzene	12.86	91	88820	0.303	ppbv	100
59) m/p-Xylene	13.14	91	173418m	0.671	ppbv	
60) o-Xylene	13.85	91	89473	0.342	ppbv	98
61) Styrene	13.68	104	43661m	0.251	ppbv	
62) Isopropylbenzene	14.83	105	121024	0.339	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	85860	0.451	ppbv	99
64) n-propylbenzene	15.72	120	30932m	0.335	ppbv	
65) tert-Butylbenzene	16.90	119	105721	0.323	ppbv	90
66) Benzyl Chloride	17.15	91	49493m	0.332	ppbv	
67) sec-Butylbenzene	17.46	105	156472m	0.343	ppbv	
69) p-Isopropyltoluene	17.81	119	122215	0.325	ppbv	95
70) n-Butylbenzene	18.71	91	134772	0.338	ppbv	96
71) 2-Chlorotoluene	15.61	91	81233	0.308	ppbv	99
72) 4-Ethyltoluene	15.99	105	89215	0.290	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.15	105	96572m	0.325	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	116768	0.354	ppbv	94
75) 1,3-Dichlorobenzene	17.15	146	88194	0.442	ppbv	91
76) 1,4-Dichlorobenzene	17.30	146	73073	0.386	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	71819m	0.389	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	67989m	0.464	ppbv	
79) Naphthalene	22.42	128	84311m	0.280	ppbv	
80) Naphthalene, 2-methyl-	25.11	142	23790	0.209	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	58003	0.331	ppbv	93

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

