

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034877.D
 Acq On : 10 Mar 2020 22:12
 Operator : SY/AP
 Sample : L1161-15 0.4 PPB MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT1-2020

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:17:46 PM

Quant Time: Mar 11 14:59:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	864186	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1938114	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1893219	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1564996	10.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	75389	0.637	ppbv	98
3) Chlorodifluoromethane	2.95	51	44697	0.463	ppbv	94
4) Chloromethane	3.10	50	24202	0.444	ppbv	89
5) Vinyl Chloride	3.22	62	22848m	0.436	ppbv	
6) Bromomethane	3.44	94	13096m	0.429	ppbv	
7) Chloroethane	3.53	64	8897m	0.470	ppbv	
8) Dichlorotetrafluoroethane	3.15	85	59812	0.487	ppbv	99
9) Propene	2.97	41	19137m	0.415	ppbv	
10) Heptane	8.13	43	39907	0.352	ppbv	90
11) Trichlorofluoromethane	3.92	101	59353	0.471	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	43783	0.497	ppbv	94
13) Ethanol	3.58	45	6094m	0.435	ppbv	
14) Bromoethene	3.71	108	16167	0.425	ppbv	91
15) Acetone	3.83	43	56000	0.500	ppbv	96
16) 1,3-Butadiene	3.29	39	21227	0.419	ppbv	96
17) tert-Butyl alcohol	4.29	59	49967m	0.463	ppbv	
18) 1,1-Dichloroethene	4.26	96	17716	0.454	ppbv	93
19) Isopropyl Alcohol	3.95	45	33926	0.480	ppbv #	44
20) Methylene Chloride	4.32	84	20027	0.566	ppbv	85
21) Allyl Chloride	4.39	41	28529m	0.397	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	18059m	0.456	ppbv	
23) Vinyl Acetate	5.06	43	57852	0.350	ppbv #	93
24) 1,1-Dichloroethane	4.99	63	51578m	0.465	ppbv	
25) Ethyl Acetate	5.67	43	84942	0.426	ppbv	98
26) Hexane	5.68	57	33384	0.389	ppbv	84
27) Carbon Disulfide	4.53	76	25733m	0.264	ppbv	
28) Methyl tert-Butyl Ether	5.03	73	53408	0.374	ppbv	100
29) Chloroform	5.74	83	59283	0.452	ppbv	98
30) Cyclohexane	7.13	84	26083m	0.364	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	31728	0.361	ppbv #	82
32) 1,1,1-Trichloroethane	6.50	97	52667	0.412	ppbv	96
34) 2-Butanone	5.24	43	50989	0.396	ppbv	96
35) Carbon Tetrachloride	7.02	117	49209	0.408	ppbv	92
36) Benzene	6.90	78	66639	0.386	ppbv #	92
37) 1,2-Dichloroethane	6.30	62	45532	0.467	ppbv	97
38) Trichloroethene	7.84	130	24120m	0.368	ppbv	
39) 1,2-Dichloropropane	7.62	63	28193m	0.412	ppbv	
40) 1,4-Dioxane	7.88	88	11945m	0.462	ppbv	
41) Tetrahydrofuran	6.07	42	24736m	0.355	ppbv	
42) Bromodichloromethane	7.80	83	47680m	0.359	ppbv	
43) Methyl Methacrylate	8.03	69	23704	0.326	ppbv	96

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44) 2,2,4-Trimethylpentane	7.88	57	111307	0.381	ppbv	94
45) t-1,3-Dichloropropene	9.29	75	20460	0.239	ppbv #	74
46) cis-1,3-Dichloropropene	8.72	75	27785m	0.273	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	30862	0.439	ppbv	93
48) Dibromochloromethane	10.32	129	34104m	0.300	ppbv	
49) Bromoform	13.07	173	24806m	0.245	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	68376m	0.369	ppbv	
51) 2-Hexanone	10.17	43	46833m	0.311	ppbv	
52) Tetrachloroethene	11.24	164	25699m	0.376	ppbv	
53) Toluene	9.83	91	63590	0.319	ppbv	96
54) 1,2-Dibromoethane	10.63	107	40542m	0.383	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.15	131	33283m	0.391	ppbv	
57) Chlorobenzene	12.18	112	69578m	0.470	ppbv	
58) Ethyl Benzene	12.74	91	88248	0.344	ppbv	89
59) m/p-Xylene	13.02	91	157410m	0.733	ppbv	
60) o-Xylene	13.72	91	79210m	0.378	ppbv	
61) Styrene	13.56	104	43271m	0.294	ppbv	
62) Isopropylbenzene	14.70	105	128680m	0.406	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.70	83	67500m	0.474	ppbv	
64) n-propylbenzene	15.59	120	28106	0.341	ppbv #	64
65) tert-Butylbenzene	16.78	119	87289	0.315	ppbv #	83
66) Benzyl Chloride	17.03	91	27078m	0.234	ppbv	
67) sec-Butylbenzene	17.33	105	136692m	0.356	ppbv	
69) p-Isopropyltoluene	17.70	119	97770	0.303	ppbv	95
70) n-Butylbenzene	18.59	91	107614	0.327	ppbv	96
71) 2-Chlorotoluene	15.49	91	84013m	0.350	ppbv	
72) 4-Ethyltoluene	15.87	105	81026	0.327	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.03	105	77778m	0.335	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	86527m	0.362	ppbv	
75) 1,3-Dichlorobenzene	17.03	146	66261m	0.460	ppbv	
76) 1,4-Dichlorobenzene	17.18	146	57097m	0.397	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	56698m	0.406	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	37135m	0.318	ppbv	
79) Naphthalene	22.27	128	34356m	0.184	ppbv	
81) 1,2,4-Trichlorobenzene	21.99	180	30156m	0.255	ppbv	

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

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