

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034320.D
 Acq On : 17 Oct 2019 17:23
 Operator : SY/AP
 Sample : K5111-15 0.4 PPB MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:54:48 PM

Quant Time: Oct 20 19:04:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 1
 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	5.69	49	1000376	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1936764	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1927670	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1703001	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	81179	0.471 ppbv	97
3) Chlorodifluoromethane	2.97	51	51839	0.442 ppbv	99
4) Chloromethane	3.12	50	30634	0.442 ppbv	100
5) Vinyl Chloride	3.24	62	28332	0.428 ppbv	97
6) Bromomethane	3.46	94	13985	0.432 ppbv	92
7) Chloroethane	3.55	64	10459m	0.449 ppbv	
8) Dichlorotetrafluoroethane	3.17	85	68457	0.458 ppbv	99
9) Propene	2.99	41	19868	0.382 ppbv	97
10) Heptane	8.17	43	46438	0.348 ppbv	95
11) Trichlorofluoromethane	3.95	101	71994	0.440 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	50053m	0.467 ppbv	
13) Ethanol	3.61	45	6264m	0.538 ppbv	
14) Bromoethene	3.73	108	17395m	0.412 ppbv	
15) Acetone	3.85	43	81445	0.569 ppbv	96
16) 1,3-Butadiene	3.31	39	25523m	0.439 ppbv	
17) tert-Butyl alcohol	4.31	59	45748	0.501 ppbv	97
18) 1,1-Dichloroethene	4.29	96	18375	0.391 ppbv	87
19) Isopropyl Alcohol	3.99	45	38776m	0.486 ppbv	
20) Methylene Chloride	4.35	84	28074m	0.543 ppbv	
21) Allyl Chloride	4.42	41	29812	0.377 ppbv	91
22) trans-1,2-Dichloroethene	4.89	96	19376m	0.414 ppbv	
23) Vinyl Acetate	5.09	43	78475m	0.439 ppbv	
24) 1,1-Dichloroethane	5.02	63	54981	0.415 ppbv	99
25) Ethyl Acetate	5.71	43	97379	0.403 ppbv	99
26) Hexane	5.72	57	39543	0.384 ppbv	91
27) Carbon Disulfide	4.56	76	39385m	0.368 ppbv	
28) Methyl tert-Butyl Ether	5.06	73	57763m	0.371 ppbv	
29) Chloroform	5.78	83	71089	0.436 ppbv #	83
30) Cyclohexane	7.17	84	28568m	0.377 ppbv	
31) cis-1,2-Dichloroethene	5.57	61	35836	0.343 ppbv #	87
32) 1,1,1-Trichloroethane	6.54	97	59799	0.378 ppbv	95
34) 2-Butanone	5.28	43	60043m	0.379 ppbv	
35) Carbon Tetrachloride	7.06	117	65906m	0.391 ppbv	
36) Benzene	6.92	78	66484m	0.358 ppbv	
37) 1,2-Dichloroethane	6.33	62	57367m	0.414 ppbv	
38) Trichloroethene	7.88	130	27776m	0.372 ppbv	
39) 1,2-Dichloropropane	7.65	63	31209m	0.390 ppbv	
40) 1,4-Dioxane	7.92	88	12494m	0.444 ppbv	
41) Tetrahydrofuran	6.10	42	25846m	0.294 ppbv	
42) Bromodichloromethane	7.83	83	69321	0.409 ppbv	99
43) Methyl Methacrylate	8.06	69	24097m	0.314 ppbv	

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44) 2,2,4-Trimethylpentane	7.91	57	117349	0.341	ppbv	92
45) t-1,3-Dichloropropene	9.34	75	26046m	0.278	ppbv	
46) cis-1,3-Dichloropropene	8.75	75	30292m	0.282	ppbv	
47) 1,1,2-Trichloroethane	9.53	97	32299	0.399	ppbv #	91
48) Dibromochloromethane	10.37	129	46515	0.350	ppbv	100
49) Bromoform	13.12	173	40953	0.348	ppbv	96
50) 4-Methyl-2-Pentanone	8.81	43	74497	0.329	ppbv	97
51) 2-Hexanone	10.21	43	60205m	0.324	ppbv	
52) Tetrachloroethene	11.29	164	26245m	0.360	ppbv	
53) Toluene	9.86	91	65176	0.318	ppbv	91
54) 1,2-Dibromoethane	10.67	107	46274m	0.385	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.19	131	37613m	0.423	ppbv	
57) Chlorobenzene	12.22	112	67978	0.423	ppbv #	76
58) Ethyl Benzene	12.78	91	92252	0.342	ppbv	89
59) m/p-Xylene	13.07	91	180786m	0.774	ppbv	
60) o-Xylene	13.76	91	85243	0.367	ppbv	97
61) Styrene	13.61	104	51939m	0.317	ppbv	
62) Isopropylbenzene	14.74	105	114837	0.374	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.75	83	75658	0.405	ppbv	99
64) n-propylbenzene	15.64	120	28332m	0.360	ppbv	
65) tert-Butylbenzene	16.82	119	101585m	0.373	ppbv	
66) Benzyl Chloride	17.08	91	31837m	0.296	ppbv	
67) sec-Butylbenzene	17.38	105	139428	0.364	ppbv	97
69) p-Isopropyltoluene	17.73	119	105560	0.338	ppbv	95
70) n-Butylbenzene	18.64	91	124857m	0.368	ppbv	
71) 2-Chlorotoluene	15.54	91	89980m	0.378	ppbv	
72) 4-Ethyltoluene	15.92	105	91707m	0.351	ppbv	
73) 1,3,5-Trimethylbenzene	16.08	105	84828	0.328	ppbv	91
74) 1,2,4-Trimethylbenzene	16.84	105	107288m	0.397	ppbv	
75) 1,3-Dichlorobenzene	17.08	146	67070	0.414	ppbv	97
76) 1,4-Dichlorobenzene	17.22	146	66316m	0.419	ppbv	
77) 1,2-Dichlorobenzene	17.90	146	60502	0.381	ppbv	96
78) Hexachloro-1,3-Butadiene	23.47	225	53229m	0.405	ppbv	
79) Naphthalene	22.31	128	50575m	0.256	ppbv	
80) Naphthalene, 2-methyl-	25.06	142	9489	0.166	ppbv	97
81) 1,2,4-Trichlorobenzene	22.03	180	46417m	0.360	ppbv	

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

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