

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037927.D
 Acq On : 27 Oct 2021 22:07
 Operator : SY/AP
 Sample : M4068-13 0.45 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2021

Manual Integrations
 APPROVED

Quant Time: Oct 28 14:00:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Reviewed By :Mahesh Dadoda 10/29/2021
 Supervised By :Semsettin Yesilyurt 10/29/2021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1363043	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4011031	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3398198	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2502371	10.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	139786	0.642	ppbv	95
3) Chlorodifluoromethane	3.00	51	126569	0.483	ppbv	99
4) Chloromethane	3.15	50	48928	0.510	ppbv	92
5) Vinyl Chloride	3.27	62	43722	0.497	ppbv	92
6) Bromomethane	3.49	94	24405m	0.513	ppbv	
7) Chloroethane	3.57	64	16508m	0.511	ppbv	
8) Dichlorotetrafluoroethane	3.20	85	106744	0.496	ppbv	92
9) Propene	3.02	41	41903m	0.435	ppbv	
10) Heptane	8.13	43	77220	0.353	ppbv	93
11) Trichlorofluoromethane	3.96	101	93504	0.481	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.49	101	82295m	0.559	ppbv	
13) Ethanol	3.64	45	3760m	0.477	ppbv	
14) Bromoethene	3.75	108	27623m	0.427	ppbv	
15) Acetone	3.89	43	50159m	0.410	ppbv	
16) 1,3-Butadiene	3.35	39	42793m	0.481	ppbv	
17) tert-Butyl alcohol	4.33	59	54288m	0.431	ppbv	
18) 1,1-Dichloroethene	4.29	96	31557m	0.472	ppbv	
19) Isopropyl Alcohol	4.00	45	34640m	0.455	ppbv	
20) Methylene Chloride	4.36	84	37299	0.603	ppbv	93
21) Allyl Chloride	4.43	41	44423	0.410	ppbv	88
22) trans-1,2-Dichloroethene	4.90	96	32393m	0.482	ppbv	
23) Vinyl Acetate	5.09	43	71136m	0.388	ppbv	
24) 1,1-Dichloroethane	5.02	63	70863	0.531	ppbv	97
25) Ethyl Acetate	5.70	43	129481	0.377	ppbv #	92
26) Hexane	5.70	57	62448m	0.369	ppbv	
27) Carbon Disulfide	4.56	76	59192	0.395	ppbv #	90
28) Methyl tert-Butyl Ether	5.06	73	57609m	0.409	ppbv	
29) Chloroform	5.76	83	111528	0.461	ppbv	98
30) Cyclohexane	7.15	84	60957m	0.425	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	58017m	0.378	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	99998m	0.436	ppbv	
34) 2-Butanone	5.27	43	61422m	0.379	ppbv	
35) Carbon Tetrachloride	7.03	117	98000	0.430	ppbv	96
36) Benzene	6.90	78	127767m	0.373	ppbv	
37) 1,2-Dichloroethane	6.31	62	70872m	0.439	ppbv	
38) Trichloroethene	7.85	130	50921m	0.376	ppbv	
39) 1,2-Dichloropropane	7.63	63	50867	0.395	ppbv	88
40) 1,4-Dioxane	7.89	88	14636m	0.454	ppbv	
41) Tetrahydrofuran	6.11	42	25480m	0.321	ppbv	
42) Bromodichloromethane	7.80	83	99012m	0.418	ppbv	
43) Methyl Methacrylate	8.04	69	33785m	0.302	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	218906m	0.380	ppbv	
45) t-1,3-Dichloropropene	9.28	75	20581m	0.267	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	33175m	0.311	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	62758m	0.448	ppbv	
48) Dibromochloromethane	10.31	129	71378m	0.357	ppbv	
49) Bromoform	13.04	173	54759m	0.358	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	64615m	0.307	ppbv	
51) 2-Hexanone	10.17	43	24246m	0.258	ppbv	
52) Tetrachloroethene	11.23	164	47249m	0.354	ppbv	
53) Toluene	9.82	91	104792m	0.276	ppbv	
54) 1,2-Dibromoethane	10.62	107	69640m	0.368	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.13	131	70333m	0.500	ppbv	
57) Chlorobenzene	12.15	112	134951	0.484	ppbv	# 85
58) Ethyl Benzene	12.72	91	135379m	0.297	ppbv	
59) m/p-Xylene	13.01	91	275765m	0.704	ppbv	
60) o-Xylene	13.70	91	128899m	0.343	ppbv	
61) Styrene	13.53	104	39929m	0.220	ppbv	
62) Isopropylbenzene	14.67	105	201266	0.384	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.69	83	126665	0.437	ppbv	94
64) n-propylbenzene	15.57	120	49909m	0.382	ppbv	
65) tert-Butylbenzene	16.75	119	173341	0.376	ppbv	95
66) Benzyl Chloride	17.00	91	8958m	0.394	ppbv	
67) sec-Butylbenzene	17.30	105	234604	0.372	ppbv	95
69) p-Isopropyltoluene	17.65	119	164482	0.323	ppbv	96
70) n-Butylbenzene	18.56	91	162645m	0.336	ppbv	
71) 2-Chlorotoluene	15.46	91	128226m	0.347	ppbv	
72) 4-Ethyltoluene	15.85	105	138339m	0.325	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	145275m	0.375	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	164408	0.404	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	117169m	0.465	ppbv	
76) 1,4-Dichlorobenzene	17.15	146	100440m	0.418	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	103854m	0.429	ppbv	
78) Hexachloro-1,3-Butadiene	23.38	225	101411m	0.513	ppbv	
79) Naphthalene	22.21	128	52016m	0.209	ppbv	
80) Naphthalene,2-methyl-	24.97	142	10380m	0.155	ppbv	
81) 1,2,4-Trichlorobenzene	21.93	180	49494m	0.311	ppbv	

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

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