

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073123\
 Data File : VL040575.D
 Acq On : 31 Jul 2023 16:38
 Operator : SY/MD
 Sample : 03572-15 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2023

Quant Time: Aug 01 01:40:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 01:40:08 2023
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/01/2023
 Supervised By : Mahesh Dadoda 08/01/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.182	49	1130203	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.645	114	2761987	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.465	117	2470113	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.773	95	2059434	10.535	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.713	85	21029	0.093	ppbv	95
3) Chlorodifluoromethane	2.665	51	18149	0.101	ppbv	97
4) Chloromethane	2.796	50	6135m	0.086	ppbv	
5) Vinyl Chloride	2.902	62	5689m	0.076	ppbv	
6) Bromomethane	3.118	94	3316m	0.105	ppbv	
7) Chloroethane	3.185	64	2998m	0.115	ppbv	
8) Dichlorotetrafluoroethane	2.841	85	16876	0.091	ppbv	91
9) Propene	2.687	41	9296	0.152	ppbv	91
10) Heptane	7.574	43	5812m	0.043	ppbv	
11) Trichlorofluoromethane	3.549	101	18991m	0.104	ppbv	
12) 1,1,2-Trichlorotrifluoro...	4.057	101	13959	0.109	ppbv	97
13) Ethanol	3.256	45	2408m	0.180	ppbv	
14) Bromoethene	3.353	108	4886m	0.088	ppbv	
15) Acetone	3.481	43	24207	0.186	ppbv #	84
16) 1,3-Butadiene	2.973	39	8098m	0.123	ppbv	
17) tert-Butyl alcohol	3.893	59	14107m	0.105	ppbv	
18) 1,1-Dichloroethene	3.874	96	6039m	0.102	ppbv	
19) Isopropyl Alcohol	3.591	45	8538m	0.114	ppbv	
20) Methylene Chloride	3.919	84	30889	0.558	ppbv #	94
21) Allyl Chloride	3.983	41	6927m	0.093	ppbv	
22) trans-1,2-Dichloroethene	4.430	96	6057m	0.104	ppbv	
23) Vinyl Acetate	4.636	43	14098m	0.114	ppbv	
24) 1,1-Dichloroethane	4.552	63	13102	0.104	ppbv	98
25) Ethyl Acetate	5.208	43	25008	0.101	ppbv #	96
26) Hexane	5.205	57	14402	0.125	ppbv #	70
27) Carbon Disulfide	4.115	76	13016m	0.096	ppbv	
28) Methyl tert-Butyl Ether	4.594	73	8670m	0.094	ppbv	
29) Chloroform	5.259	83	17759m	0.093	ppbv	
30) Cyclohexane	6.607	84	3871m	0.040	ppbv	
31) cis-1,2-Dichloroethene	5.063	61	8254m	0.073	ppbv	
32) 1,1,1-Trichloroethane	5.996	97	16546m	0.089	ppbv	
34) 2-Butanone	4.803	43	13939m	0.102	ppbv	
35) Carbon Tetrachloride	6.481	117	15435m	0.093	ppbv	
36) Benzene	6.369	78	15191m	0.068	ppbv	
37) 1,2-Dichloroethane	5.800	62	11853m	0.091	ppbv	
38) Trichloroethene	7.279	130	6636m	0.079	ppbv	
39) 1,2-Dichloropropane	7.066	63	8122m	0.095	ppbv	
40) 1,4-Dioxane	7.320	88	1779m	0.066	ppbv	
41) Tetrahydrofuran	5.584	42	3921m	0.049	ppbv	
42) Bromodichloromethane	7.237	83	15447m	0.085	ppbv	
43) Methyl Methacrylate	7.471	69	3686m	0.044	ppbv	
44) 2,2,4-Trimethylpentane	7.327	57	18727m	0.052	ppbv	
45) t-1,3-Dichloropropene	8.709	75	2059m	0.039	ppbv	

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 01 2023

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.143	75	3364m	0.049	ppbv	
47) 1,1,2-Trichloroethane	8.896	97	7791m	0.083	ppbv	
48) Dibromochloromethane	9.703	129	9614m	0.066	ppbv	
49) Bromoform	12.407	173	7426m	0.064	ppbv	
50) 4-Methyl-2-Pentanone	8.205	43	11141m	0.056	ppbv	
51) 2-Hexanone	9.584	43	7082m	0.051	ppbv	
52) Tetrachloroethene	10.603	164	5008m	0.070	ppbv	
53) Toluene	9.221	91	11069m	0.046	ppbv	
54) 1,2-Dibromoethane	9.995	107	7524m	0.064	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.507	131	9667m	0.087	ppbv	
57) Chlorobenzene	11.523	112	17547m	0.091	ppbv	
58) Ethyl Benzene	12.085	91	13740m	0.044	ppbv	
59) m/p-Xylene	12.368	91	22778m	0.082	ppbv	
60) o-Xylene	13.053	91	10677m	0.041	ppbv	
61) Styrene	12.883	104	4661m	0.038	ppbv	
62) Isopropylbenzene	14.031	105	22149m	0.056	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.050	83	14958m	0.081	ppbv	
64) n-propylbenzene	14.902	120	3976m	0.039	ppbv	
65) tert-Butylbenzene	16.085	119	14011m	0.040	ppbv	
66) Benzyl Chloride	16.365	91	2547m	0.103	ppbv	
67) sec-Butylbenzene	16.635	105	23645m	0.046	ppbv	
69) p-Isopropyltoluene	17.005	119	15834m	0.037	ppbv	
70) n-Butylbenzene	17.899	91	19756m	0.042	ppbv	
71) 2-Chlorotoluene	14.812	91	15330m	0.050	ppbv	
72) 4-Ethyltoluene	15.195	105	10354m	0.034	ppbv	
73) 1,3,5-Trimethylbenzene	15.343	105	10194m	0.037	ppbv	
74) 1,2,4-Trimethylbenzene	16.105	105	11936m	0.038	ppbv	
75) 1,3-Dichlorobenzene	16.339	146	13520m	0.070	ppbv	
76) 1,4-Dichlorobenzene	16.481	146	13678m	0.072	ppbv	
77) 1,2-Dichlorobenzene	17.150	146	11582m	0.063	ppbv	
78) Hexachloro-1,3-Butadiene	22.632	225	13978m	0.081	ppbv	
79) Naphthalene	21.397	128	8291m	0.031	ppbv	
81) 1,2,4-Trichlorobenzene	21.159	180	8065m	0.044	ppbv	

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

