

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL073123\
 Data File : VL040580.D
 Acq On : 31 Jul 2023 20:01
 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

Manual Integrations
 APPROVED

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

Quant Time: Aug 01 01:41:47 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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)
Internal Standards						
1) Bromochloromethane	5.182	49	1114916	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.645	114	2705892	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.461	117	2411613	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2025375	10.612	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	23042m	0.103	ppbv	
3) Chlorodifluoromethane	2.661	51	16188	0.092	ppbv	# 89
4) Chloromethane	2.803	50	6168	0.088	ppbv	94
5) Vinyl Chloride	2.906	62	6404m	0.087	ppbv	
6) Bromomethane	3.105	94	3558m	0.115	ppbv	
7) Chloroethane	3.185	64	2993m	0.116	ppbv	
8) Dichlorotetrafluoroethane	2.848	85	17349	0.095	ppbv	100
9) Propene	2.690	41	7088	0.117	ppbv	96
10) Heptane	7.574	43	5844m	0.044	ppbv	
11) Trichlorofluoromethane	3.555	101	20318m	0.113	ppbv	
12) 1,1,2-Trichlorotrifluo...	4.050	101	14152m	0.112	ppbv	
14) Bromoethene	3.362	108	4400m	0.081	ppbv	
15) Acetone	3.484	43	24833	0.194	ppbv	# 88
16) 1,3-Butadiene	2.980	39	5067	0.078	ppbv	# 77
17) tert-Butyl alcohol	3.889	59	13485m	0.102	ppbv	
18) 1,1-Dichloroethene	3.870	96	6349	0.109	ppbv	# 74
19) Isopropyl Alcohol	3.587	45	8415m	0.114	ppbv	
20) Methylene Chloride	3.925	84	15704	0.288	ppbv	92
21) Allyl Chloride	3.986	41	6904	0.094	ppbv	# 76
22) trans-1,2-Dichloroethene	4.436	96	6372m	0.111	ppbv	
23) Vinyl Acetate	4.632	43	11725m	0.096	ppbv	
24) 1,1-Dichloroethane	4.552	63	11897m	0.096	ppbv	
25) Ethyl Acetate	5.211	43	17845	0.073	ppbv	98
26) Hexane	5.198	57	8615	0.076	ppbv	# 77
27) Carbon Disulfide	4.111	76	10340m	0.077	ppbv	
28) Methyl tert-Butyl Ether	4.594	73	9181m	0.100	ppbv	
29) Chloroform	5.266	83	16801	0.089	ppbv	84
30) Cyclohexane	6.590	84	2989m	0.032	ppbv	
31) cis-1,2-Dichloroethene	5.073	61	7568m	0.067	ppbv	
32) 1,1,1-Trichloroethane	5.995	97	16713m	0.091	ppbv	
34) 2-Butanone	4.803	43	10135	0.076	ppbv	# 90
35) Carbon Tetrachloride	6.484	117	14689m	0.090	ppbv	
36) Benzene	6.365	78	13097m	0.060	ppbv	
37) 1,2-Dichloroethane	5.799	62	11140	0.087	ppbv	98
38) Trichloroethene	7.282	130	5549m	0.067	ppbv	
39) 1,2-Dichloropropane	7.066	63	8687m	0.104	ppbv	
41) Tetrahydrofuran	5.597	42	3485m	0.045	ppbv	
42) Bromodichloromethane	7.240	83	15735	0.088	ppbv	# 81
43) Methyl Methacrylate	7.475	69	3661m	0.045	ppbv	
44) 2,2,4-Trimethylpentane	7.311	57	18161m	0.052	ppbv	
45) t-1,3-Dichloropropene	8.706	75	2893m	0.055	ppbv	
46) cis-1,3-Dichloropropene	8.134	75	3484m	0.052	ppbv	
47) 1,1,2-Trichloroethane	8.896	97	6870m	0.074	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Dibromochloromethane	9.700	129	9997m	0.070	ppbv	
49) Bromoform	12.404	173	6935m	0.061	ppbv	
50) 4-Methyl-2-Pentanone	8.211	43	8965m	0.046	ppbv	
51) 2-Hexanone	9.581	43	5290m	0.039	ppbv	
52) Tetrachloroethene	10.600	164	4831m	0.069	ppbv	
53) Toluene	9.214	91	11086m	0.047	ppbv	
54) 1,2-Dibromoethane	9.995	107	6447m	0.056	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.503	131	9909m	0.092	ppbv	
57) Chlorobenzene	11.519	112	15966m	0.085	ppbv	
58) Ethyl Benzene	12.088	91	12424m	0.041	ppbv	
59) m/p-Xylene	12.339	91	21157m	0.078	ppbv	
60) o-Xylene	13.050	91	9189m	0.036	ppbv	
61) Styrene	12.902	104	4162m	0.035	ppbv	
62) Isopropylbenzene	14.027	105	18987m	0.049	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.050	83	14079m	0.078	ppbv	
64) n-propylbenzene	14.912	120	3870m	0.039	ppbv	
65) tert-Butylbenzene	16.092	119	12756m	0.037	ppbv	
67) sec-Butylbenzene	16.635	105	22386m	0.045	ppbv	
69) p-Isopropyltoluene	16.992	119	14424m	0.035	ppbv	
70) n-Butylbenzene	17.895	91	17658m	0.038	ppbv	
71) 2-Chlorotoluene	14.793	91	13764m	0.046	ppbv	
72) 4-Ethyltoluene	15.198	105	10628m	0.035	ppbv	
73) 1,3,5-Trimethylbenzene	15.352	105	9073m	0.034	ppbv	
74) 1,2,4-Trimethylbenzene	16.104	105	11230m	0.036	ppbv	
75) 1,3-Dichlorobenzene	16.339	146	13594m	0.072	ppbv	
76) 1,4-Dichlorobenzene	16.468	146	12457m	0.068	ppbv	
77) 1,2-Dichlorobenzene	17.146	146	10790m	0.060	ppbv	
78) Hexachloro-1,3-Butadiene	22.641	225	13317m	0.079	ppbv	
81) 1,2,4-Trichlorobenzene	21.133	180	6670m	0.037	ppbv	

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

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