

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
 Data File : VL040802.D
 Acq On : 25 Oct 2023 16:15
 Operator : SY/MD
 Sample : 04699-15 0.40 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2023DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/26/2023
 Supervised By : Mahesh Dadoda 10/26/2023

Quant Time: Oct 26 03:52:57 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	947881	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.645	114	2537041	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.452	117	2358666	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.757 95 1837292 10.586 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.745	85	83786	0.502	ppbv	98
3) Chlorodifluoromethane	2.694	51	69244	0.497	ppbv	92
4) Chloromethane	2.829	50	24184	0.440	ppbv	96
5) Vinyl Chloride	2.938	62	23810	0.419	ppbv	100
6) Bromomethane	3.131	94	9702	0.413	ppbv #	80
7) Chloroethane	3.214	64	8093m	0.437	ppbv	
8) Dichlorotetrafluoroethane	2.870	85	59953	0.474	ppbv	96
9) Propene	2.706	41	23717	0.458	ppbv	100
10) Heptane	7.574	43	51551m	0.397	ppbv	
11) Trichlorofluoromethane	3.568	101	61858	0.480	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.066	101	42883m	0.467	ppbv	
13) Ethanol	3.269	45	6988m	0.598	ppbv	
14) Bromoethene	3.378	108	17570m	0.446	ppbv	
15) Acetone	3.491	43	63723	0.650	ppbv	94
16) 1,3-Butadiene	2.999	39	22400	0.436	ppbv	93
17) tert-Butyl alcohol	3.899	59	37632	0.375	ppbv	98
18) 1,1-Dichloroethene	3.890	96	18219	0.442	ppbv #	90
19) Isopropyl Alcohol	3.603	45	25599	0.406	ppbv #	42
20) Methylene Chloride	3.941	84	24784	0.607	ppbv	90
21) Allyl Chloride	4.005	41	24101	0.373	ppbv #	72
22) trans-1,2-Dichloroethene	4.452	96	19389m	0.442	ppbv	
23) Vinyl Acetate	4.632	43	36738	0.294	ppbv #	94
24) 1,1-Dichloroethane	4.562	63	41380m	0.439	ppbv	
25) Ethyl Acetate	5.211	43	91057	0.424	ppbv	97
26) Hexane	5.211	57	46642m	0.475	ppbv	
27) Carbon Disulfide	4.131	76	43314	0.400	ppbv #	89
28) Methyl tert-Butyl Ether	4.603	73	27433	0.360	ppbv	97
29) Chloroform	5.269	83	69696	0.491	ppbv	91
30) Cyclohexane	6.597	84	33480m	0.401	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	38482	0.426	ppbv	96
32) 1,1,1-Trichloroethane	5.999	97	63531	0.420	ppbv	96
34) 2-Butanone	4.800	43	48646	0.424	ppbv #	83
35) Carbon Tetrachloride	6.488	117	62866m	0.441	ppbv	
36) Benzene	6.359	78	85839m	0.440	ppbv	
37) 1,2-Dichloroethane	5.800	62	48408	0.484	ppbv	99
38) Trichloroethene	7.285	130	32623	0.378	ppbv	93
39) 1,2-Dichloropropane	7.060	63	33991m	0.446	ppbv	
40) 1,4-Dioxane	7.311	88	15526m	0.538	ppbv	
41) Tetrahydrofuran	5.581	42	33428m	0.420	ppbv	
42) Bromodichloromethane	7.240	83	68951m	0.461	ppbv	
43) Methyl Methacrylate	7.475	69	30952m	0.396	ppbv	
44) 2,2,4-Trimethylpentane	7.320	57	147268	0.446	ppbv	99
45) t-1,3-Dichloropropene	8.700	75	17901m	0.287	ppbv	

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Oct 12 00:21:08 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.131	75	26983m	0.355	ppbv	
47) 1,1,2-Trichloroethane	8.883	97	34543	0.431	ppbv	96
48) Dibromochloromethane	9.693	129	51731	0.385	ppbv	100
49) Bromoform	12.391	173	36188m	0.332	ppbv	
50) 4-Methyl-2-Pentanone	8.198	43	74411	0.379	ppbv	96
51) 2-Hexanone	9.565	43	55997m	0.375	ppbv	
52) Tetrachloroethene	10.600	164	30740	0.388	ppbv	94
53) Toluene	9.205	91	86148	0.371	ppbv	98
54) 1,2-Dibromoethane	9.996	107	47292	0.421	ppbv	84
56) 1,1,1,2-Tetrachloroethane	11.494	131	41614	0.432	ppbv #	1
57) Chlorobenzene	11.510	112	79794m	0.472	ppbv	
58) Ethyl Benzene	12.076	91	124805m	0.420	ppbv	
59) m/p-Xylene	12.356	91	213082m	0.872	ppbv	
60) o-Xylene	13.040	91	102313	0.439	ppbv	99
61) Styrene	12.886	104	45285m	0.351	ppbv	
62) Isopropylbenzene	14.018	105	161196m	0.450	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.034	83	78513	0.450	ppbv	96
64) n-propylbenzene	14.905	120	39553m	0.411	ppbv	
65) tert-Butylbenzene	16.072	119	136020	0.421	ppbv	92
66) Benzyl Chloride	16.314	91	7483m	0.230	ppbv	
67) sec-Butylbenzene	16.625	105	196855	0.445	ppbv	97
69) p-Isopropyltoluene	16.982	119	152525m	0.411	ppbv	
70) n-Butylbenzene	17.876	91	145682	0.400	ppbv	99
71) 2-Chlorotoluene	14.786	91	116986	0.435	ppbv	93
72) 4-Ethyltoluene	15.179	105	109686	0.402	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.333	105	100208	0.417	ppbv	97
74) 1,2,4-Trimethylbenzene	16.089	105	114035m	0.435	ppbv	
75) 1,3-Dichlorobenzene	16.320	146	66599m	0.408	ppbv	
76) 1,4-Dichlorobenzene	16.462	146	67246m	0.416	ppbv	
77) 1,2-Dichlorobenzene	17.130	146	61946	0.387	ppbv	92
78) Hexachloro-1,3-Butadiene	22.612	225	50628m	0.442	ppbv	
79) Naphthalene	21.378	128	47772m	0.224	ppbv	
81) 1,2,4-Trichlorobenzene	21.133	180	33274m	0.287	ppbv	

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

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