

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102323\
 Data File : VL040784.D
 Acq On : 23 Oct 2023 18:36
 Operator : SY/MD
 Sample : 04699-15 0.45 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 10/25/2023
 Supervised By : Mahesh Dadoda 10/25/2023

Quant Time: Oct 24 16:11:45 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 : Tue Oct 24 16:11:15 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	891575	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	2532477	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.446	117	1111208m	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.754 95 1756930 21.487 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 214.900%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.735	85	80014	0.510	ppbv	91
3) Chlorodifluoromethane	2.684	51	65076	0.497	ppbv	99
4) Chloromethane	2.825	50	24534	0.474	ppbv #	87
5) Vinyl Chloride	2.925	62	24620	0.461	ppbv	98
6) Bromomethane	3.124	94	10117	0.457	ppbv	84
7) Chloroethane	3.202	64	8331	0.479	ppbv #	83
8) Dichlorotetrafluoroethane	2.867	85	62637	0.526	ppbv	96
9) Propene	2.700	41	22541	0.463	ppbv	86
10) Heptane	7.568	43	58383	0.478	ppbv	97
11) Trichlorofluoromethane	3.562	101	60409	0.499	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.066	101	41371	0.479	ppbv	100
13) Ethanol	3.266	45	7307m	0.665	ppbv	
14) Bromoethene	3.369	108	17839	0.482	ppbv #	88
15) Acetone	3.481	43	56159	0.609	ppbv	92
16) 1,3-Butadiene	2.989	39	20508	0.424	ppbv #	81
17) tert-Butyl alcohol	3.893	59	42080	0.445	ppbv	97
18) 1,1-Dichloroethene	3.880	96	19662	0.508	ppbv	92
19) Isopropyl Alcohol	3.594	45	30380	0.512	ppbv #	43
20) Methylene Chloride	3.931	84	22439	0.584	ppbv	92
21) Allyl Chloride	3.993	41	24791	0.408	ppbv #	71
22) trans-1,2-Dichloroethene	4.439	96	20872m	0.506	ppbv	
23) Vinyl Acetate	4.632	43	60150m	0.512	ppbv	
24) 1,1-Dichloroethane	4.558	63	38222	0.431	ppbv	97
25) Ethyl Acetate	5.208	43	98064m	0.486	ppbv	
26) Hexane	5.208	57	46605	0.505	ppbv	90
27) Carbon Disulfide	4.124	76	40793	0.401	ppbv #	79
28) Methyl tert-Butyl Ether	4.594	73	28555	0.398	ppbv	93
29) Chloroform	5.263	83	65489	0.490	ppbv	97
30) Cyclohexane	6.594	84	36647	0.467	ppbv	90
31) cis-1,2-Dichloroethene	5.073	61	39036	0.459	ppbv	90
32) 1,1,1-Trichloroethane	5.996	97	66653m	0.469	ppbv	
34) 2-Butanone	4.800	43	64600m	0.564	ppbv	
35) Carbon Tetrachloride	6.484	117	62124	0.437	ppbv	93
36) Benzene	6.356	78	93535m	0.480	ppbv	
37) 1,2-Dichloroethane	5.796	62	48861	0.490	ppbv	98
38) Trichloroethene	7.275	130	39238m	0.455	ppbv	
39) 1,2-Dichloropropane	7.063	63	34260	0.450	ppbv #	84
40) 1,4-Dioxane	7.307	88	16968m	0.589	ppbv	
41) Tetrahydrofuran	5.581	42	38306m	0.483	ppbv	
42) Bromodichloromethane	7.230	83	67812	0.454	ppbv	88
43) Methyl Methacrylate	7.475	69	34034m	0.436	ppbv	
44) 2,2,4-Trimethylpentane	7.314	57	157885	0.479	ppbv	99
45) t-1,3-Dichloropropene	8.693	75	21476m	0.345	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.131	75	29681	0.391	ppbv #	94
47) 1,1,2-Trichloroethane	8.877	97	38030m	0.476	ppbv	
48) Dibromochloromethane	9.693	129	53675	0.401	ppbv	100
49) Bromoform	12.388	173	38167	0.350	ppbv	94
50) 4-Methyl-2-Pentanone	8.188	43	85907	0.438	ppbv	97
51) 2-Hexanone	9.558	43	64059m	0.429	ppbv	
52) Tetrachloroethene	10.597	164	35794m	0.452	ppbv	
53) Toluene	9.205	91	103690	0.447	ppbv	99
54) 1,2-Dibromoethane	9.992	107	54474m	0.486	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.494	131	43596m	0.961	ppbv	
57) Chlorobenzene	11.503	112	89421m	1.123	ppbv	
58) Ethyl Benzene	12.069	91	143669	1.027	ppbv	95
59) m/p-Xylene	12.352	91	236324m	2.052	ppbv	
60) o-Xylene	13.037	91	115966	1.057	ppbv	98
61) Styrene	12.883	104	54247	0.892	ppbv	98
62) Isopropylbenzene	14.015	105	178316	1.056	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.028	83	84758m	1.030	ppbv	
64) n-propylbenzene	14.889	120	47826m	1.055	ppbv	
65) tert-Butylbenzene	16.069	119	156409	1.027	ppbv	97
66) Benzyl Chloride	16.320	91	8696m	0.567	ppbv	
67) sec-Butylbenzene	16.616	105	224105m	1.075	ppbv	
69) p-Isopropyltoluene	16.976	119	169154	0.968	ppbv	96
70) n-Butylbenzene	17.870	91	165305	0.964	ppbv	98
71) 2-Chlorotoluene	14.780	91	130995	1.033	ppbv	98
72) 4-Ethyltoluene	15.169	105	135271m	1.053	ppbv	
73) 1,3,5-Trimethylbenzene	15.330	105	105295	0.931	ppbv	87
74) 1,2,4-Trimethylbenzene	16.088	105	120994	0.979	ppbv	95
75) 1,3-Dichlorobenzene	16.314	146	68057	0.885	ppbv	88
76) 1,4-Dichlorobenzene	16.455	146	64974	0.854	ppbv	84
77) 1,2-Dichlorobenzene	17.124	146	74590m	0.989	ppbv	
78) Hexachloro-1,3-Butadiene	22.603	225	60533m	1.122	ppbv	
79) Naphthalene	21.368	128	65361m	0.651	ppbv	
80) Naphthalene,2-methyl-	24.368	142	5689m	0.202	ppbv	
81) 1,2,4-Trichlorobenzene	21.120	180	42259m	0.775	ppbv	

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

Manual Integrations

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