

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102323\
 Data File : VL040785.D
 Acq On : 23 Oct 2023 19:15
 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 10/25/2023
 Supervised By : Mahesh Dadoda 10/25/2023

Quant Time: Oct 24 16:12:08 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	5.185	49	884005	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.642	114	2508830	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.446	117	1513895m	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.754 95 1747255 15.685 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 156.900%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.735	85	73320	0.471	ppbv	100
3) Chlorodifluoromethane	2.684	51	58228	0.448	ppbv	99
4) Chloromethane	2.819	50	22646	0.441	ppbv	90
5) Vinyl Chloride	2.925	62	19645	0.371	ppbv	91
6) Bromomethane	3.124	94	10339	0.471	ppbv	82
7) Chloroethane	3.198	64	6865	0.398	ppbv	97
8) Dichlorotetrafluoroethane	2.861	85	52285	0.443	ppbv	97
9) Propene	2.703	41	22235	0.461	ppbv	98
10) Heptane	7.561	43	48435	0.400	ppbv	93
11) Trichlorofluoromethane	3.558	101	53948	0.449	ppbv	88
12) 1,1,2-Trichlorotrifluo...	4.063	101	35372	0.413	ppbv	93
13) Ethanol	3.256	45	7815m	0.717	ppbv	
14) Bromoethene	3.369	108	15512	0.423	ppbv #	85
15) Acetone	3.484	43	52422	0.574	ppbv	92
16) 1,3-Butadiene	2.993	39	23612m	0.492	ppbv	
17) tert-Butyl alcohol	3.893	59	37863m	0.404	ppbv	
18) 1,1-Dichloroethene	3.877	96	17494m	0.455	ppbv	
19) Isopropyl Alcohol	3.597	45	27214m	0.463	ppbv	
20) Methylene Chloride	3.928	84	20928	0.550	ppbv #	88
21) Allyl Chloride	3.999	41	25147	0.417	ppbv	94
22) trans-1,2-Dichloroethene	4.439	96	16838m	0.412	ppbv	
23) Vinyl Acetate	4.629	43	37125	0.319	ppbv #	95
24) 1,1-Dichloroethane	4.555	63	35188	0.401	ppbv #	95
25) Ethyl Acetate	5.205	43	81917	0.409	ppbv	96
26) Hexane	5.201	57	42249	0.462	ppbv	94
27) Carbon Disulfide	4.121	76	34669	0.343	ppbv #	46
28) Methyl tert-Butyl Ether	4.594	73	27337m	0.384	ppbv	
29) Chloroform	5.263	83	59368m	0.448	ppbv	
30) Cyclohexane	6.584	84	34591m	0.444	ppbv	
31) cis-1,2-Dichloroethene	5.070	61	35897	0.426	ppbv #	87
32) 1,1,1-Trichloroethane	5.989	97	53798	0.382	ppbv	92
34) 2-Butanone	4.800	43	43844	0.386	ppbv #	85
35) Carbon Tetrachloride	6.478	117	53497	0.380	ppbv	84
36) Benzene	6.362	78	83442m	0.432	ppbv	
37) 1,2-Dichloroethane	5.793	62	41077	0.416	ppbv #	95
38) Trichloroethene	7.279	130	33160m	0.388	ppbv	
39) 1,2-Dichloropropane	7.053	63	33466m	0.444	ppbv	
40) 1,4-Dioxane	7.307	88	15050m	0.528	ppbv	
41) Tetrahydrofuran	5.571	42	33108m	0.421	ppbv	
42) Bromodichloromethane	7.234	83	59439	0.401	ppbv	91
43) Methyl Methacrylate	7.475	69	26816	0.347	ppbv	88
44) 2,2,4-Trimethylpentane	7.314	57	137968	0.423	ppbv	99
45) t-1,3-Dichloropropene	8.693	75	20076m	0.326	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.127	75	25597	0.340	ppbv #	94
47) 1,1,2-Trichloroethane	8.883	97	34248	0.432	ppbv	91
48) Dibromochloromethane	9.693	129	46316	0.349	ppbv	98
49) Bromoform	12.388	173	35392m	0.328	ppbv	
50) 4-Methyl-2-Pentanone	8.188	43	77148m	0.397	ppbv	
51) 2-Hexanone	9.558	43	52174m	0.353	ppbv	
52) Tetrachloroethene	10.594	164	30403m	0.388	ppbv	
53) Toluene	9.204	91	89845	0.391	ppbv	100
54) 1,2-Dibromoethane	9.989	107	46240m	0.416	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.491	131	34778	0.563	ppbv #	64
57) Chlorobenzene	11.510	112	76293m	0.703	ppbv	
58) Ethyl Benzene	12.073	91	125561m	0.659	ppbv	
59) m/p-Xylene	12.346	91	206019m	1.313	ppbv	
60) o-Xylene	13.037	91	95944	0.642	ppbv	97
61) Styrene	12.870	104	48236m	0.582	ppbv	
62) Isopropylbenzene	14.008	105	154287	0.671	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.031	83	68150	0.608	ppbv	98
64) n-propylbenzene	14.889	120	39241m	0.635	ppbv	
65) tert-Butylbenzene	16.066	119	138010m	0.665	ppbv	
66) Benzyl Chloride	16.304	91	7400m	0.354	ppbv	
67) sec-Butylbenzene	16.616	105	183288	0.645	ppbv	98
69) p-Isopropyltoluene	16.973	119	144499	0.607	ppbv	98
70) n-Butylbenzene	17.876	91	155145m	0.664	ppbv	
71) 2-Chlorotoluene	14.780	91	102019	0.591	ppbv	93
72) 4-Ethyltoluene	15.172	105	107127	0.612	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.333	105	100996m	0.655	ppbv	
74) 1,2,4-Trimethylbenzene	16.092	105	113460m	0.674	ppbv	
75) 1,3-Dichlorobenzene	16.314	146	66311m	0.633	ppbv	
76) 1,4-Dichlorobenzene	16.449	146	60379	0.582	ppbv	91
77) 1,2-Dichlorobenzene	17.124	146	66745m	0.650	ppbv	
78) Hexachloro-1,3-Butadiene	22.609	225	52536m	0.715	ppbv	
79) Naphthalene	21.368	128	55912m	0.408	ppbv	
80) Naphthalene,2-methyl-	24.406	142	1892m	0.049	ppbv	
81) 1,2,4-Trichlorobenzene	21.127	180	35943m	0.484	ppbv	

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

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