

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
 Data File : VL040801.D
 Acq On : 25 Oct 2023 15:36
 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 10/26/2023
 Supervised By : Mahesh Dadoda 10/26/2023

Quant Time: Oct 26 03:52:35 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	949055	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.645	114	2510272	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.449	117	2331781	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.757 95 1846100 10.760 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.745	85	99618	0.596	ppbv	90
3) Chlorodifluoromethane	2.690	51	79155	0.568	ppbv	99
4) Chloromethane	2.825	50	29229	0.531	ppbv	95
5) Vinyl Chloride	2.928	62	27895	0.490	ppbv	97
6) Bromomethane	3.131	94	13486m	0.573	ppbv	
7) Chloroethane	3.205	64	9211m	0.497	ppbv	
8) Dichlorotetrafluoroethane	2.870	85	71297	0.563	ppbv	98
9) Propene	2.706	41	29124	0.562	ppbv	98
10) Heptane	7.574	43	63315m	0.487	ppbv	
11) Trichlorofluoromethane	3.568	101	73423	0.569	ppbv	87
12) 1,1,2-Trichlorotrifluo...	4.066	101	49386	0.537	ppbv	97
13) Ethanol	3.276	45	10186m	0.871	ppbv	
14) Bromoethene	3.372	108	20794m	0.528	ppbv	
15) Acetone	3.488	43	80985	0.825	ppbv	95
16) 1,3-Butadiene	2.999	39	26279m	0.511	ppbv	
17) tert-Butyl alcohol	3.896	59	43191	0.429	ppbv #	94
18) 1,1-Dichloroethene	3.883	96	20681	0.502	ppbv	89
19) Isopropyl Alcohol	3.600	45	33315	0.527	ppbv #	52
20) Methylene Chloride	3.935	84	48087	1.177	ppbv	96
21) Allyl Chloride	3.999	41	31952	0.494	ppbv #	77
22) trans-1,2-Dichloroethene	4.449	96	21488	0.490	ppbv #	72
23) Vinyl Acetate	4.629	43	49506	0.396	ppbv #	92
24) 1,1-Dichloroethane	4.562	63	45386	0.481	ppbv	96
25) Ethyl Acetate	5.208	43	106491	0.495	ppbv	99
26) Hexane	5.211	57	62140m	0.632	ppbv	
27) Carbon Disulfide	4.128	76	46484	0.429	ppbv #	71
28) Methyl tert-Butyl Ether	4.594	73	31488	0.412	ppbv	93
29) Chloroform	5.269	83	75996	0.535	ppbv	95
30) Cyclohexane	6.594	84	36311	0.434	ppbv	89
31) cis-1,2-Dichloroethene	5.073	61	42957	0.474	ppbv	92
32) 1,1,1-Trichloroethane	5.992	97	74466	0.492	ppbv	99
34) 2-Butanone	4.793	43	63983	0.563	ppbv	95
35) Carbon Tetrachloride	6.484	117	70771	0.502	ppbv	96
36) Benzene	6.365	78	96487m	0.500	ppbv	
37) 1,2-Dichloroethane	5.800	62	54860	0.555	ppbv	98
38) Trichloroethene	7.282	130	37698	0.441	ppbv	98
39) 1,2-Dichloropropane	7.060	63	41203m	0.546	ppbv	
40) 1,4-Dioxane	7.314	88	16989m	0.595	ppbv	
41) Tetrahydrofuran	5.574	42	32410	0.412	ppbv #	86
42) Bromodichloromethane	7.240	83	79304	0.535	ppbv	92
43) Methyl Methacrylate	7.468	69	35535	0.460	ppbv	99
44) 2,2,4-Trimethylpentane	7.314	57	169498m	0.519	ppbv	
45) t-1,3-Dichloropropene	8.703	75	18669m	0.303	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	30530	0.405	ppbv	95
47) 1,1,2-Trichloroethane	8.880	97	43738m	0.552	ppbv	
48) Dibromochloromethane	9.696	129	59108	0.445	ppbv	99
49) Bromoform	12.391	173	43851	0.406	ppbv	98
50) 4-Methyl-2-Pentanone	8.192	43	89505	0.460	ppbv	97
51) 2-Hexanone	9.568	43	63026m	0.426	ppbv	
52) Tetrachloroethene	10.597	164	34675	0.442	ppbv	93
53) Toluene	9.205	91	104273	0.454	ppbv	97
54) 1,2-Dibromoethane	9.995	107	52668	0.474	ppbv	94
56) 1,1,1,2-Tetrachloroethane	11.494	131	47012	0.494	ppbv #	68
57) Chlorobenzene	11.510	112	92470m	0.553	ppbv	
58) Ethyl Benzene	12.069	91	139596	0.475	ppbv #	83
59) m/p-Xylene	12.352	91	252953m	1.047	ppbv	
60) o-Xylene	13.044	91	117451	0.510	ppbv	100
61) Styrene	12.880	104	54736	0.429	ppbv	96
62) Isopropylbenzene	14.011	105	188338	0.532	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.034	83	97576m	0.565	ppbv	
64) n-propylbenzene	14.902	120	44348m	0.466	ppbv	
65) tert-Butylbenzene	16.072	119	160860	0.504	ppbv	90
66) Benzyl Chloride	16.326	91	8019m	0.249	ppbv	
67) sec-Butylbenzene	16.616	105	223357	0.511	ppbv	95
69) p-Isopropyltoluene	16.979	119	164667	0.449	ppbv #	93
70) n-Butylbenzene	17.873	91	180844	0.502	ppbv	98
71) 2-Chlorotoluene	14.786	91	135110	0.508	ppbv	94
72) 4-Ethyltoluene	15.179	105	132780	0.492	ppbv #	96
73) 1,3,5-Trimethylbenzene	15.336	105	115363	0.486	ppbv	86
74) 1,2,4-Trimethylbenzene	16.089	105	133368	0.514	ppbv #	90
75) 1,3-Dichlorobenzene	16.317	146	79579m	0.493	ppbv	
76) 1,4-Dichlorobenzene	16.458	146	79763m	0.499	ppbv	
77) 1,2-Dichlorobenzene	17.127	146	77721m	0.491	ppbv	
78) Hexachloro-1,3-Butadiene	22.616	225	61378m	0.542	ppbv	
79) Naphthalene	21.374	128	61147m	0.290	ppbv	
81) 1,2,4-Trichlorobenzene	21.133	180	42049m	0.367	ppbv	

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

