

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092325\
 Data File : VL042996.D
 Acq On : 23 Sep 2025 17:36
 Operator : SY/MD
 Sample : Q2893-13 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT3-2025

Quant Time: Sep 24 02:26:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Sep 24 02:23:20 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/24/2025
 Supervised By : Mahesh Dadoda 09/26/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	154370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	411178	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	360730	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	289702	10.759	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.600%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9075	0.437	ppbv	97
3) Chlorodifluoromethane	1.476	51	11327	0.438	ppbv	96
4) Chloromethane	1.534	50	3971	0.423	ppbv	90
5) Vinyl Chloride	1.580	62	3470	0.408	ppbv	98
6) Bromomethane	1.670	94	1162	0.388	ppbv #	75
7) Chloroethane	1.706	64	1404	0.426	ppbv #	64
8) Dichlorotetrafluoroethane	1.557	85	7422	0.419	ppbv	96
9) Propene	1.486	41	4201	0.373	ppbv	97
10) Heptane	4.988	43	8465m	0.282	ppbv	
11) Trichlorofluoromethane	1.881	101	9304	0.465	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	6789	0.419	ppbv	99
13) Ethanol	1.725	45	797	0.730	ppbv #	35
14) Bromoethene	1.784	108	2674	0.436	ppbv #	86
15) Acetone	1.839	43	10718	0.533	ppbv	100
16) 1,3-Butadiene	1.612	39	4025	0.424	ppbv	90
17) tert-Butyl alcohol	2.046	59	7902	0.358	ppbv #	89
18) 1,1-Dichloroethene	2.036	96	2913m	0.388	ppbv	
19) Isopropyl Alcohol	1.890	45	5001	0.414	ppbv #	43
20) Methylene Chloride	2.062	84	4704	0.559	ppbv	95
21) Allyl Chloride	2.097	41	5509	0.393	ppbv #	79
22) trans-1,2-Dichloroethene	2.343	96	3462	0.406	ppbv	94
23) Vinyl Acetate	2.463	43	9636	0.335	ppbv #	85
24) 1,1-Dichloroethane	2.415	63	6910	0.413	ppbv	99
25) Ethyl Acetate	2.845	43	17340	0.341	ppbv	98
26) Hexane	2.829	57	7462	0.322	ppbv #	88
27) Carbon Disulfide	2.152	76	7211	0.347	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	4916	0.408	ppbv	93
29) Chloroform	2.852	83	14236	0.470	ppbv	91
30) Cyclohexane	3.855	84	5245	0.271	ppbv #	84
31) cis-1,2-Dichloroethene	2.725	61	8108	0.374	ppbv	94
32) 1,1,1-Trichloroethane	3.369	97	11300	0.345	ppbv	95
34) 2-Butanone	2.567	43	12622	0.438	ppbv	99
35) Carbon Tetrachloride	3.764	117	12167	0.455	ppbv	91
36) Benzene	3.661	78	16193	0.419	ppbv #	94
37) 1,2-Dichloroethane	3.224	62	10732	0.528	ppbv	99
38) Trichloroethene	4.554	130	7572	0.395	ppbv	87
39) 1,2-Dichloropropane	4.318	63	6446m	0.457	ppbv	
40) 1,4-Dioxane	4.603	88	2270m	0.346	ppbv	
41) Tetrahydrofuran	3.068	42	5842m	0.353	ppbv	
42) Bromodichloromethane	4.496	83	12792	0.452	ppbv	94
43) Methyl Methacrylate	4.894	69	4715m	0.298	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	24557	0.368	ppbv #	92
45) t-1,3-Dichloropropene	6.422	75	5373m	0.319	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	7015m	0.327	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	6543m	0.439	ppbv	
48) Dibromochloromethane	7.393	129	9529	0.400	ppbv	98
49) Bromoform	9.483	173	6887m	0.332	ppbv	
50) 4-Methyl-2-Pentanone	5.778	43	13422m	0.348	ppbv	
51) 2-Hexanone	7.451	43	9105m	0.296	ppbv	
52) Tetrachloroethene	8.228	164	5951	0.398	ppbv #	84
53) Toluene	6.946	91	13883m	0.304	ppbv	
54) 1,2-Dibromoethane	7.658	107	8030	0.383	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.933	131	8058	0.467	ppbv #	1
57) Chlorobenzene	8.927	112	15483	0.470	ppbv #	93
58) Ethyl Benzene	9.360	91	18907	0.319	ppbv	98
59) m/p-Xylene	9.555	91	29546m	0.633	ppbv	
60) o-Xylene	9.966	91	14150	0.303	ppbv	98
61) Styrene	9.878	104	6013	0.272	ppbv	96
62) Isopropylbenzene	10.545	105	23881	0.343	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	11763	0.479	ppbv	97
64) n-propylbenzene	10.995	120	5893	0.324	ppbv	97
65) tert-Butylbenzene	11.536	119	18555	0.300	ppbv	91
66) Benzyl Chloride	11.616	91	1253	0.193	ppbv #	95
67) sec-Butylbenzene	11.772	105	29078	0.337	ppbv	98
69) p-Isopropyltoluene	11.927	119	20936	0.287	ppbv	98
70) n-Butylbenzene	12.286	91	19505	0.274	ppbv	98
71) 2-Chlorotoluene	10.904	91	16990	0.323	ppbv	98
72) 4-Ethyltoluene	11.131	105	16998	0.291	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.209	105	14277	0.301	ppbv	88
74) 1,2,4-Trimethylbenzene	11.539	105	16227	0.310	ppbv	88
75) 1,3-Dichlorobenzene	11.610	146	12264	0.378	ppbv	92
76) 1,4-Dichlorobenzene	11.678	146	11712	0.363	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	12962	0.420	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	10168	0.421	ppbv	97
79) Naphthalene	13.513	128	7659	0.165	ppbv #	93
80) Naphthalene,2-methyl-	14.465	142	1530	0.107	ppbv	92
81) 1,2,4-Trichlorobenzene	13.442	180	4614	0.186	ppbv	100

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

