

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL050125

Review By	Semsettin Yesilyurt	Review On	5/2/2025 7:59:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/5/2025 2:55:39 PM		
SubDirectory	VL050125	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2603			
Initial Calibration Stds		AP2606,AP2607,AP2608			
CCC		AP2606			
Internal Standard/PEM		AP2603			
ICV/I.BLK		AP2609			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042457.D	01 May 2025 08:19	SY/MD	Ok
2	VSTDICCC010	VL042458.D	01 May 2025 09:03	SY/MD	Ok,M
3	VSTDICCC002	VL042459.D	01 May 2025 09:37	SY/MD	Ok,M
4	VSTDICCC001	VL042460.D	01 May 2025 10:08	SY/MD	Ok,M
5	VSTDICCC0.5	VL042461.D	01 May 2025 10:40	SY/MD	Ok,M
6	VSTDICCC0.1	VL042462.D	01 May 2025 11:12	SY/MD	Ok,M
7	VSTDICCC0.03	VL042463.D	01 May 2025 11:44	SY/MD	Not Ok
8	VSTDICCC0.03	VL042464.D	01 May 2025 12:15	SY/MD	Not Ok
9	VSTDICCC015	VL042465.D	01 May 2025 12:49	SY/MD	Ok,M
10	VSTDICCC0.03	VL042466.D	01 May 2025 14:10	SY/MD	Ok,M
11	VSTDICV010	VL042467.D	01 May 2025 15:46	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL050525

Review By	Semsettin Yesilyurt	Review On	5/6/2025 10:22:30 AM		
Supervise By	Maresh Dadoda	Supervise On	5/6/2025 12:42:58 PM		
SubDirectory	VL050525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL050125AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2603				
Initial Calibration Stds	AP2606,AP2607,AP2608				
CCC	AP2606				
Internal Standard/PEM	AP2603				
ICV/I.BLK	AP2609				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042468.D	05 May 2025 07:45	SY/MD	Ok
2	VSTDCCC010	VL042469.D	05 May 2025 08:29	SY/MD	Ok,M
3	VL0505ABL01	VL042470.D	05 May 2025 09:19	SY/MD	Ok
4	VL0505ABS01	VL042471.D	05 May 2025 10:07	SY/MD	Ok,M
5	Q1927-03DL	VL042472.D	05 May 2025 10:50	SY/MD	Not Ok
6	Q1927-04DL	VL042473.D	05 May 2025 11:22	SY/MD	Ok,M
7	Q1927-03	VL042474.D	05 May 2025 13:11	SY/MD	Ok,M
8	Q1927-04	VL042475.D	05 May 2025 14:44	SY/MD	Dilution
9	Q1927-01	VL042476.D	05 May 2025 15:18	SY/MD	Ok,M
10	Q1927-01DUP	VL042477.D	05 May 2025 15:53	SY/MD	Ok,M
11	Q1927-01DL	VL042478.D	05 May 2025 16:25	SY/MD	Not Ok
12	Q1927-02	VL042479.D	05 May 2025 16:59	SY/MD	Ok,M
13	Q1927-02DL	VL042480.D	05 May 2025 17:31	SY/MD	Not Ok
14	Q1927-05	VL042481.D	05 May 2025 18:06	SY/MD	Ok,M
15	Q1927-05DL	VL042482.D	05 May 2025 18:39	SY/MD	Not Ok
16	Q1927-06	VL042483.D	05 May 2025 19:15	SY/MD	Ok,M
17	Q1927-06DL	VL042484.D	05 May 2025 19:49	SY/MD	Not Ok
18	QC042825 CAN 10492	VL042485.D	05 May 2025 20:26	SY/MD	Ok

M : Manual Integration

Process Report

Order ID : Q2317

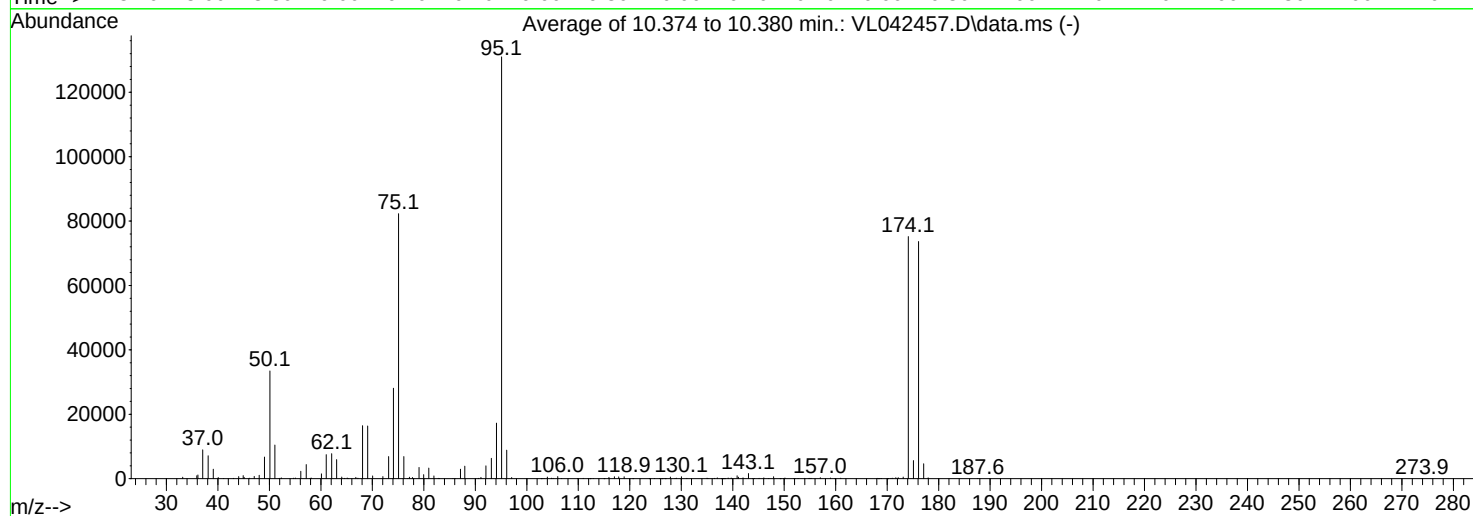
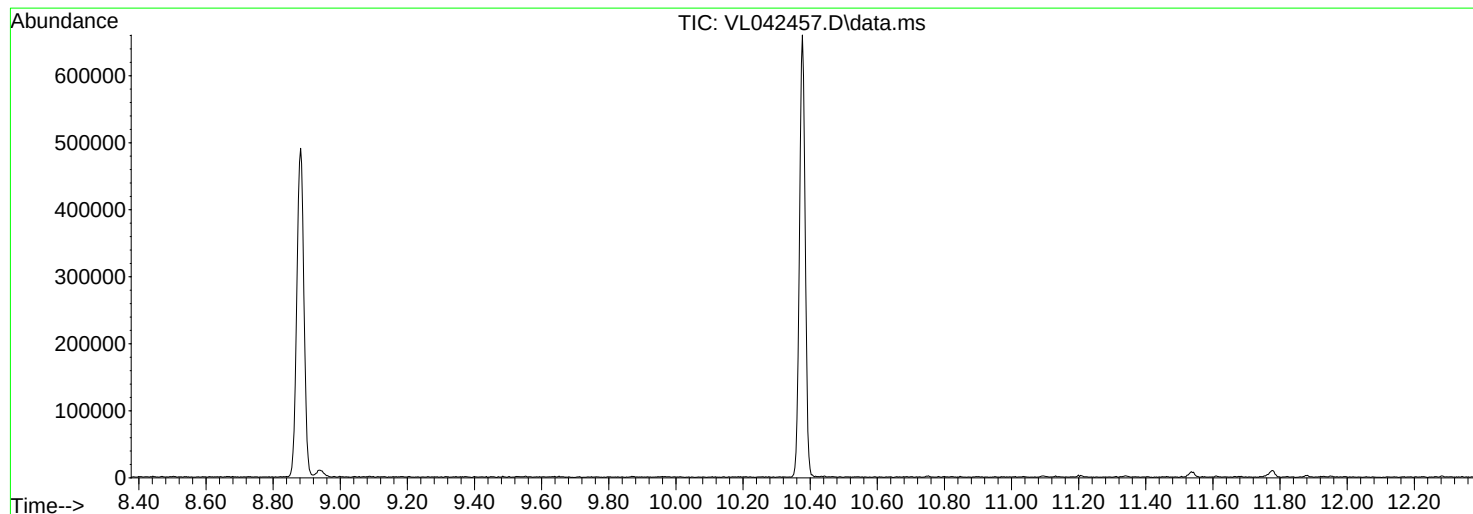
Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
06/13/2025	B2505058	Q2317-04	-8.0	10601	6 L	10202		C2504014	VL042485.D Seq :VL050525 TUNE : VL042468.D ICAL : VL042466.D CCAL : VL042469.D MB : VL042470.D
06/13/2025	B2505058	Q2317-01	-5.9	10588	6 L	10713		C2504014	VL042485.D Seq :VL050525 TUNE : VL042468.D ICAL : VL042466.D CCAL : VL042469.D MB : VL042470.D
06/13/2025	B2505058	Q2317-02	-4.7	10492	6 L	10236		C2504014	VL042485.D Seq :VL050525 TUNE : VL042468.D ICAL : VL042466.D CCAL : VL042469.D MB : VL042470.D
06/13/2025	B2505058	Q2317-05	-6.7	10315	6 L	10241		C2504014	VL042485.D Seq :VL050525 TUNE : VL042468.D ICAL : VL042466.D CCAL : VL042469.D MB : VL042470.D
06/13/2025	B2505058	Q2317-03	-1.8	10198	6 L	10207		C2504007	VL042330.D Seq :VL041525 TUNE : VL042325.D ICAL : VL042177.D CCAL : VL042326.D MB : VL042327.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042457.D
Acq On : 01 May 2025 08:19
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri May 02 03:16:31 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.5	33424	PASS
75	95	30	66	62.8	82325	PASS
95	95	100	100	100.0	131013	PASS
96	95	5	9	6.8	8845	PASS
173	174	0.00	2	0.6	483	PASS
174	95	50	120	57.4	75195	PASS
175	174	4	9	7.5	5628	PASS
176	174	93	101	97.9	73643	PASS
177	176	5	9	6.3	4652	PASS

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL050125AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Fri May 02 03:16:31 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042466.D 0.1 =VL042462.D 0.5 =VL042461.D 1 =VL042460.D 2 =VL042459.D 10 =VL042458.D 15 =VL042465.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.887	1.650	1.629	1.470	1.639	1.655	9.01
3) Chlorodifluoro...			1.886	1.871	1.820	1.569	1.602	1.750	8.71
4) Chloromethane			0.738	0.696	0.734	0.624	0.666	0.692	6.90
5) T Vinyl Chloride	0.756	0.964	0.708	0.625	0.623	0.567	0.631	0.696	19.18
6) T Bromomethane			0.349	0.359	0.327	0.286	0.324	0.329	8.64
7) Chloroethane			0.250	0.272	0.271	0.231	0.261	0.257	6.55
8) T Dichlorotetra...			1.445	1.371	1.402	1.235	1.368	1.364	5.77
9) T Propene			0.585	0.606	0.631	0.525	0.515	0.572	8.84
10) T Heptane			1.276	1.634	1.593	1.445	1.474	1.484	9.48
11) T Trichlorofluor...			1.660	1.489	1.528	1.376	1.582	1.527	6.96
12) T 1,1,2-Trichlor...			1.318	1.234	1.245	1.099	1.201	1.219	6.52
13) Ethanol			0.138	0.136	0.143	0.080	0.084	0.116	27.19
14) T Bromoethene			0.488	0.443	0.457	0.398	0.466	0.450	7.39
15) T Acetone			2.229	2.094	2.022	1.318	1.465	1.826	22.28
16) T 1,3-Butadiene			0.883	0.874	0.836	0.681	0.751	0.805	10.77
17) tert-Butyl alc...			1.816	1.615	1.620	1.489	1.502	1.608	8.15
18) T 1,1-Dichloroet...			0.650	0.587	0.567	0.495	0.547	0.569	9.98
19) T Isopropyl Alcohol			1.221	1.087	0.976	0.876	0.891	1.010	14.33
20) T Methylene Chlo...			0.753	0.547	0.518	0.449	0.477	0.549	21.88
21) T Allyl Chloride			1.283	1.181	1.164	1.076	1.166	1.174	6.25
22) T trans-1,2-Dich...			0.741	0.742	0.645	0.552	0.644	0.665	11.96
23) T Vinyl Acetate			1.898	1.521	1.810	1.726	1.756	1.742	8.03
24) T 1,1-Dichloroet...			1.432	1.465	1.368	1.196	1.322	1.357	7.79
25) T Ethyl Acetate			3.002	3.044	2.945	2.832	2.792	2.923	3.69
26) T Hexane			1.278	1.290	1.345	1.215	1.239	1.273	3.91
27) T Carbon Disulfide			1.509	1.446	1.499	1.418	1.558	1.486	3.69
28) T Methyl tert-Bu...			0.802	0.853	0.759	0.671	0.740	0.765	8.91
29) T Chloroform			2.551	2.482	2.399	2.198	2.301	2.386	5.89
30) T Cyclohexane			1.135	0.998	1.096	1.045	1.048	1.065	4.92
31) T cis-1,2-Dichlo...			1.551	1.604	1.545	1.342	1.386	1.486	7.71
32) T 1,1,1-Trichlor...	2.980	2.842	2.567	2.501	2.511	2.288	2.433	2.589	9.28

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.802	0.732	0.774	0.659	0.650	0.723	9.32
35) T Carbon Tetrach...	1.166	0.799	0.856	0.935	0.875	0.827	0.902	0.908	13.44
36) T Benzene			0.924	0.974	1.036	0.892	0.892	0.944	6.53
37) T 1,2-Dichloroet...			0.738	0.755	0.769	0.666	0.709	0.727	5.66
38) T Trichloroethene	0.241	0.419	0.389	0.364	0.404	0.347	0.355	0.360	16.31
39) T 1,2-Dichloropr...			0.368	0.405	0.362	0.317	0.315	0.353	10.71

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL050125AIR.M											
40)	T	1,4-Dioxane			0.176	0.185	0.172	0.151	0.144	0.165	10.60
41)	T	Tetrahydrofuran			0.329	0.354	0.387	0.326	0.322	0.344	7.98
42)	T	Bromodichlorom...			0.848	0.921	0.931	0.839	0.904	0.889	4.77
43)		Methyl Methacr...			0.328	0.341	0.362	0.363	0.366	0.352	4.72
44)	T	2,2,4-Trimethy...			1.490	1.590	1.633	1.437	1.498	1.530	5.23
45)	T	t-1,3-Dichloro...			0.438	0.423	0.460	0.480	0.510	0.462	7.46
46)	T	cis-1,3-Dichlo...			0.526	0.539	0.549	0.555	0.577	0.549	3.47
47)	T	1,1,2-Trichlor...			0.372	0.409	0.428	0.357	0.371	0.387	7.74
48)	T	Dibromochlorom...			0.651	0.643	0.673	0.630	0.674	0.654	2.96
49)	T	Bromoform			0.540	0.535	0.573	0.527	0.568	0.549	3.73
50)	T	4-Methyl-2-Pen...			0.852	0.980	0.985	0.870	0.887	0.915	6.92
51)	T	2-Hexanone			0.649	0.754	0.797	0.722	0.736	0.731	7.42
52)	T	Tetrachloroethene	0.509	0.380	0.325	0.339	0.338	0.305	0.318	0.359	19.49
53)	T	Toluene			0.935	0.969	1.025	1.016	1.050	0.999	4.64
54)	T	1,2-Dibromoethane		0.625	0.589	0.599	0.610	0.554	0.577	0.592	4.26
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.618	0.633	0.596	0.542	0.564	0.591	6.38
57)	T	Chlorobenzene			1.101	1.060	1.036	0.904	0.923	1.005	8.64
58)	T	Ethyl Benzene			1.492	1.634	1.752	1.725	1.754	1.671	6.68
59)	T	m/p-Xylene			1.212	1.378	1.506	1.429	1.479	1.401	8.31
60)	T	o-Xylene			1.197	1.393	1.519	1.423	1.481	1.403	8.90
61)	T	Styrene			0.415	0.500	0.538	0.583	0.582	0.523	13.35
62)		Isopropylbenzene			1.781	2.030	2.165	2.033	2.108	2.023	7.26
63)	T	1,1,2,2-Tetrac...	1.140	0.945	0.976	0.985	0.990	0.846	0.887	0.967	9.69
64)		n-propylbenzene			0.400	0.524	0.549	0.482	0.518	0.495	11.75
65)		tert-Butylbenzene			1.519	1.791	2.028	1.817	1.873	1.806	10.23
66)	T	Benzyl Chloride			0.158	0.204	0.195	0.232	0.255	0.209	17.73
67)		sec-Butylbenzene			2.149	2.560	2.905	2.541	2.675	2.566	10.69
68)	S	1-Bromo-4-Fluo...	0.920	0.911	0.902	0.928	0.915	0.951	0.963	0.927	2.39
69)		p-Isopropyltol...			1.805	2.166	2.406	2.150	2.283	2.162	10.39
70)		n-Butylbenzene			1.802	2.218	2.560	2.198	2.396	2.235	12.66
71)		2-Chlorotoluene			1.405	1.569	1.697	1.597	1.667	1.587	7.20
72)	T	4-Ethyltoluene			1.281	1.647	1.828	1.722	1.792	1.654	13.28
73)	T	1,3,5-Trimethy...			1.177	1.467	1.618	1.475	1.535	1.455	11.44
74)	T	1,2,4-Trimethy...			1.568	1.788	2.075	1.646	1.723	1.760	11.07
75)	T	1,3-Dichlorobe...			0.975	1.022	1.056	0.893	0.952	0.980	6.42
76)	T	1,4-Dichlorobe...			0.869	0.945	0.966	0.907	0.949	0.927	4.22
77)	T	1,2-Dichlorobe...			0.977	1.007	1.033	0.864	0.914	0.959	7.23
78)	T	Hexachloro-1,3...			1.028	1.081	1.070	0.772	0.838	0.958	14.93
79)	T	Naphthalene		0.720	1.168	1.657	2.155	1.527	1.661	1.482	33.01
80)	T	Naphthalene,2-...			0.498	0.925	1.573	1.172	1.338	1.101	37.38
81)	T	1,2,4-Trichlor...			0.599	0.798	0.947	0.778	0.828	0.790	15.84

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042458.D
 Acq On : 01 May 2025 09:03
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:39:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	71402	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	201290	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	174168	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 165650 10.258 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	104948	8.882	ppbv	100
3) Chlorodifluoromethane	1.476	51	112008	8.966	ppbv	100
4) Chloromethane	1.531	50	44585	9.028	ppbv	100
5) Vinyl Chloride	1.580	62	40466	8.138	ppbv	100
6) Bromomethane	1.667	94	20392	8.680	ppbv	100
7) Chloroethane	1.703	64	16528	9.002	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	88162	9.051	ppbv	100
9) Propene	1.483	41	37491	9.175	ppbv	100
10) Heptane	4.978	43	103167	9.733	ppbv	100
11) Trichlorofluoromethane	1.874	101	98215	9.320	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	78482	9.015	ppbv	100
13) Ethanol	1.719	45	5679	6.849	ppbv	100
14) Bromoethene	1.780	108	28440	8.849	ppbv	100
15) Acetone	1.835	43	94092	7.219	ppbv	100
16) 1,3-Butadiene	1.609	39	48641	8.461	ppbv	100
17) tert-Butyl alcohol	2.039	59	106304	9.257	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35320	8.689	ppbv	100
19) Isopropyl Alcohol	1.884	45	62533	8.668	ppbv	100
20) Methylene Chloride	2.059	84	32039	8.176	ppbv	100
21) Allyl Chloride	2.094	41	76859	9.169	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	39427	8.305	ppbv	100
23) Vinyl Acetate	2.460	43	123215	10.146	ppbv	100
24) 1,1-Dichloroethane	2.408	63	85367	8.814	ppbv	100
25) Ethyl Acetate	2.835	43	202215	9.689	ppbv	100
26) Hexane	2.826	57	86764	9.543	ppbv	100
27) Carbon Disulfide	2.146	76	101248	9.542	ppbv #	92
28) Methyl tert-Butyl Ether	2.437	73	47941	8.777	ppbv	100
29) Chloroform	2.848	83	156976	9.213	ppbv	100
30) Cyclohexane	3.855	84	74614	9.815	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	95797	9.031	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	163334	8.836	ppbv	100
34) 2-Butanone	2.557	43	132685	9.113	ppbv	100
35) Carbon Tetrachloride	3.758	117	166490	9.511	ppbv	100
36) Benzene	3.654	78	179532	9.451	ppbv	100
37) 1,2-Dichloroethane	3.217	62	133963	9.150	ppbv	100
38) Trichloroethene	4.544	130	69846	9.642	ppbv	100
39) 1,2-Dichloropropane	4.311	63	63894	8.979	ppbv	100
40) 1,4-Dioxane	4.583	88	30303m	9.161	ppbv	
41) Tetrahydrofuran	3.052	42	65713	9.516	ppbv	100
42) Bromodichloromethane	4.486	83	168957	9.445	ppbv	100
43) Methyl Methacrylate	4.881	69	73117	10.339	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	289161	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	96692	10.385	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042458.D
 Acq On : 01 May 2025 09:03
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:39:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	111768	10.111	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	71805	9.207	ppbv	100
48) Dibromochloromethane	7.386	129	126754	9.628	ppbv	100
49) Bromoform	9.480	173	106108	9.610	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	175193	9.518	ppbv	100
51) 2-Hexanone	7.435	43	145272	9.855	ppbv	100
52) Tetrachloroethene	8.224	164	61456	8.500	ppbv	100
53) Toluene	6.930	91	204494	10.171	ppbv	100
54) 1,2-Dibromoethane	7.648	107	111506	9.300	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	94346	9.172	ppbv	99
57) Chlorobenzene	8.920	112	157401	8.994	ppbv	100
58) Ethyl Benzene	9.354	91	300412	10.321	ppbv	100
59) m/p-Xylene	9.529	91	497922m	20.404	ppbv	
60) o-Xylene	9.963	91	247784	10.157	ppbv	100
61) Styrene	9.872	104	101509	11.134	ppbv	100
62) Isopropylbenzene	10.539	105	354055	10.047	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	147295	9.305	ppbv	100
64) n-propylbenzene	10.989	120	84006	9.787	ppbv	100
65) tert-Butylbenzene	11.529	119	316532	10.065	ppbv	100
66) Benzyl Chloride	11.613	91	40331	11.096	ppbv	100
67) sec-Butylbenzene	11.769	105	442600	9.903	ppbv	100
69) p-Isopropyltoluene	11.924	119	374540	9.947	ppbv	100
70) n-Butylbenzene	12.280	91	382883	9.836	ppbv	100
71) 2-Chlorotoluene	10.898	91	278215	10.065	ppbv	100
72) 4-Ethyltoluene	11.124	105	299831	10.409	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	256952	10.143	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	286615	9.351	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	155598	9.118	ppbv	100
76) 1,4-Dichlorobenzene	11.671	146	157966	9.782	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	150432	9.007	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	134402	8.058	ppbv	100
79) Naphthalene	13.513	128	266036	10.352	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	204042	10.641	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	135473	9.844	ppbv	100

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

Manual Integrations APPROVED

Quant Time: May 02 01:39:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042459.D
 Acq On : 01 May 2025 09:37
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:40:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	73220	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	201951	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	174624	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 159777 9.869 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	23859	1.969	ppbv	100
3) Chlorodifluoromethane	1.476	51	26655	2.081	ppbv	95
4) Chloromethane	1.531	50	10751	2.123	ppbv	95
5) Vinyl Chloride	1.580	62	9122	1.789	ppbv	92
6) Bromomethane	1.667	94	4793	1.990	ppbv #	62
7) Chloroethane	1.703	64	3972	2.110	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	20529	2.055	ppbv	100
9) Propene	1.482	41	9234	2.204	ppbv	95
10) Heptane	4.978	43	23329m	2.146	ppbv	
11) Trichlorofluoromethane	1.877	101	22375	2.070	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	18230	2.042	ppbv	97
13) Ethanol	1.722	45	2099	2.468	ppbv	94
14) Bromoethene	1.780	108	6686	2.029	ppbv #	96
15) Acetone	1.835	43	29607	2.215	ppbv	99
16) 1,3-Butadiene	1.609	39	12245	2.077	ppbv	92
17) tert-Butyl alcohol	2.042	59	23722	2.014	ppbv #	93
18) 1,1-Dichloroethene	2.033	96	8303	1.992	ppbv	92
19) Isopropyl Alcohol	1.884	45	14288	1.931	ppbv	99
20) Methylene Chloride	2.062	84	7590	1.889	ppbv	96
21) Allyl Chloride	2.094	41	17050	1.983	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	9444	1.940	ppbv	97
23) Vinyl Acetate	2.463	43	26502	2.128	ppbv	98
24) 1,1-Dichloroethane	2.408	63	20027	2.016	ppbv	98
25) Ethyl Acetate	2.839	43	43122	2.015	ppbv	97
26) Hexane	2.822	57	19691	2.112	ppbv	95
27) Carbon Disulfide	2.149	76	21945	2.017	ppbv #	43
28) Methyl tert-Butyl Ether	2.441	73	11119	1.985	ppbv	94
29) Chloroform	2.848	83	35127	2.010	ppbv	86
30) Cyclohexane	3.858	84	16056	2.060	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	22619	2.079	ppbv	95
32) 1,1,1-Trichloroethane	3.369	97	36768	1.940	ppbv	99
34) 2-Butanone	2.557	43	31242	2.139	ppbv	95
35) Carbon Tetrachloride	3.764	117	35326	2.011	ppbv	97
36) Benzene	3.661	78	41848	2.196	ppbv #	88
37) 1,2-Dichloroethane	3.217	62	31049	2.114	ppbv	99
38) Trichloroethene	4.544	130	16311m	2.244	ppbv	
39) 1,2-Dichloropropane	4.311	63	14611	2.047	ppbv	91
40) 1,4-Dioxane	4.593	88	6957m	2.096	ppbv	
41) Tetrahydrofuran	3.059	42	15641m	2.258	ppbv	
42) Bromodichloromethane	4.489	83	37615	2.096	ppbv #	99
43) Methyl Methacrylate	4.884	69	14610m	2.059	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	65967	2.142	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	18560m	1.987	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042459.D
 Acq On : 01 May 2025 09:37
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:40:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	22184	2.000	ppbv	93
47) 1,1,2-Trichloroethane	6.587	97	17307m	2.212	ppbv	
48) Dibromochloromethane	7.386	129	27174	2.057	ppbv	99
49) Bromoform	9.483	173	23126	2.088	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	39798	2.155	ppbv	99
51) 2-Hexanone	7.441	43	32196	2.177	ppbv #	97
52) Tetrachloroethene	8.224	164	13670	1.885	ppbv	93
53) Toluene	6.930	91	41392	2.052	ppbv	97
54) 1,2-Dibromoethane	7.652	107	24650	2.049	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.927	131	20822	2.019	ppbv	95
57) Chlorobenzene	8.920	112	36187	2.062	ppbv #	88
58) Ethyl Benzene	9.354	91	61177	2.096	ppbv	91
59) m/p-Xylene	9.551	91	105185m	4.299	ppbv	
60) o-Xylene	9.963	91	53051	2.169	ppbv	99
61) Styrene	9.872	104	18776	2.054	ppbv	97
62) Isopropylbenzene	10.539	105	75626	2.140	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	34562	2.178	ppbv	98
64) n-propylbenzene	10.989	120	19160	2.226	ppbv	94
65) tert-Butylbenzene	11.532	119	70813	2.246	ppbv	97
66) Benzyl Chloride	11.613	91	6794	1.864	ppbv	97
67) sec-Butylbenzene	11.769	105	101458	2.264	ppbv	99
69) p-Isopropyltoluene	11.924	119	84026	2.226	ppbv	98
70) n-Butylbenzene	12.280	91	89400	2.291	ppbv	97
71) 2-Chlorotoluene	10.901	91	59271	2.139	ppbv	97
72) 4-Ethyltoluene	11.124	105	63833	2.210	ppbv	98
73) 1,3,5-Trimethylbenzene	11.205	105	56516	2.225	ppbv	94
74) 1,2,4-Trimethylbenzene	11.536	105	72485	2.359	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	36885	2.156	ppbv	97
76) 1,4-Dichlorobenzene	11.671	146	33728	2.083	ppbv	94
77) 1,2-Dichlorobenzene	11.947	146	36078	2.154	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	37360	2.234	ppbv	99
79) Naphthalene	13.513	128	75248	2.920	ppbv	96
80) Naphthalene,2-methyl-	14.458	142	54922	2.857	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	33063	2.396	ppbv	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042460.D
 Acq On : 01 May 2025 10:08
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:41:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	71499	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	200111	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	170872	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 158600 10.011 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11796	0.997	ppbv	96
3) Chlorodifluoromethane	1.476	51	13375	1.069	ppbv	96
4) Chloromethane	1.531	50	4975	1.006	ppbv	95
5) Vinyl Chloride	1.576	62	4469	0.898	ppbv	100
6) Bromomethane	1.667	94	2570	1.092	ppbv	86
7) Chloroethane	1.703	64	1943	1.057	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	9804	1.005	ppbv	91
9) Propene	1.482	41	4331	1.058	ppbv	88
10) Heptane	4.975	43	11681m	1.101	ppbv	
11) Trichlorofluoromethane	1.877	101	10649m	1.009	ppbv	
12) 1,1,2-Trichlorotrifluo...	2.140	101	8821	1.012	ppbv	97
13) Ethanol	1.719	45	975	1.174	ppbv #	52
14) Bromoethene	1.780	108	3164	0.983	ppbv #	91
15) Acetone	1.835	43	14974	1.147	ppbv	98
16) 1,3-Butadiene	1.609	39	6248	1.085	ppbv	96
17) tert-Butyl alcohol	2.039	59	11546	1.004	ppbv #	91
18) 1,1-Dichloroethene	2.033	96	4200	1.032	ppbv	86
19) Isopropyl Alcohol	1.884	45	7775	1.076	ppbv	99
20) Methylene Chloride	2.059	84	3909	0.996	ppbv	86
21) Allyl Chloride	2.094	41	8443	1.006	ppbv	94
22) trans-1,2-Dichloroethene	2.337	96	5305	1.116	ppbv	88
23) Vinyl Acetate	2.460	43	10876	0.894	ppbv #	94
24) 1,1-Dichloroethane	2.405	63	10477	1.080	ppbv	97
25) Ethyl Acetate	2.835	43	21761	1.041	ppbv	99
26) Hexane	2.822	57	9223	1.013	ppbv	97
27) Carbon Disulfide	2.149	76	10342	0.973	ppbv #	21
28) Methyl tert-Butyl Ether	2.441	73	6101	1.115	ppbv	93
29) Chloroform	2.848	83	17744	1.040	ppbv	97
30) Cyclohexane	3.852	84	7139	0.938	ppbv	88
31) cis-1,2-Dichloroethene	2.719	61	11472	1.080	ppbv	87
32) 1,1,1-Trichloroethane	3.366	97	17881	0.966	ppbv	98
34) 2-Butanone	2.560	43	14641	1.012	ppbv	94
35) Carbon Tetrachloride	3.755	117	18704	1.075	ppbv #	76
36) Benzene	3.654	78	19493	1.032	ppbv #	94
37) 1,2-Dichloroethane	3.214	62	15116	1.039	ppbv	98
38) Trichloroethene	4.541	130	7278m	1.011	ppbv	
39) 1,2-Dichloropropane	4.302	63	8103m	1.145	ppbv	
40) 1,4-Dioxane	4.593	88	3703m	1.126	ppbv	
41) Tetrahydrofuran	3.062	42	7091m	1.033	ppbv	
42) Bromodichloromethane	4.486	83	18427	1.036	ppbv #	81
43) Methyl Methacrylate	4.874	69	6829m	0.971	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	31820m	1.043	ppbv	
45) t-1,3-Dichloropropene	6.409	75	8461m	0.914	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042460.D
 Acq On : 01 May 2025 10:08
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:41:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10781m	0.981	ppbv	
47) 1,1,2-Trichloroethane	6.583	97	8183m	1.055	ppbv	
48) Dibromochloromethane	7.386	129	12859m	0.982	ppbv	
49) Bromoform	9.483	173	10709	0.976	ppbv	97
50) 4-Methyl-2-Pentanone	5.768	43	19618m	1.072	ppbv	
51) 2-Hexanone	7.448	43	15091m	1.030	ppbv	
52) Tetrachloroethene	8.221	164	6780	0.943	ppbv	86
53) Toluene	6.930	91	19390	0.970	ppbv	97
54) 1,2-Dibromoethane	7.655	107	11980	1.005	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.920	131	10811	1.071	ppbv	94
57) Chlorobenzene	8.917	112	18111	1.055	ppbv	90
58) Ethyl Benzene	9.354	91	27914	0.978	ppbv	97
59) m/p-Xylene	9.548	91	47105m	1.968	ppbv	
60) o-Xylene	9.962	91	23806	0.995	ppbv	98
61) Styrene	9.872	104	8537	0.954	ppbv	98
62) Isopropylbenzene	10.539	105	34679	1.003	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.962	83	16837	1.084	ppbv	98
64) n-propylbenzene	10.985	120	8958	1.064	ppbv	86
65) tert-Butylbenzene	11.529	119	30604	0.992	ppbv	95
66) Benzyl Chloride	11.613	91	3486	0.978	ppbv #	96
67) sec-Butylbenzene	11.765	105	43740	0.998	ppbv	98
69) p-Isopropyltoluene	11.927	119	37011	1.002	ppbv	99
70) n-Butylbenzene	12.280	91	37892	0.992	ppbv	97
71) 2-Chlorotoluene	10.898	91	26813	0.989	ppbv	99
72) 4-Ethyltoluene	11.124	105	28149	0.996	ppbv	96
73) 1,3,5-Trimethylbenzene	11.202	105	25073	1.009	ppbv	97
74) 1,2,4-Trimethylbenzene	11.535	105	30550	1.016	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	17456	1.043	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	16151	1.019	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	17207	1.050	ppbv	94
78) Hexachloro-1,3-Butadiene	13.879	225	18472	1.129	ppbv	98
79) Naphthalene	13.513	128	28316	1.123	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	15804	0.840	ppbv	93
81) 1,2,4-Trichlorobenzene	13.439	180	13644	1.011	ppbv	96

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042461.D
 Acq On : 01 May 2025 10:40
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/02/2025
 Supervised By : Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:42:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	68913	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	193701	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	166625	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 150277 9.728 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	6501	0.570	ppbv	94
3) Chlorodifluoromethane	1.476	51	6500	0.539	ppbv	99
4) Chloromethane	1.535	50	2542	0.533	ppbv	95
5) Vinyl Chloride	1.580	62	2441	0.509	ppbv	92
6) Bromomethane	1.667	94	1202	0.530	ppbv	97
7) Chloroethane	1.703	64	862	0.486	ppbv #	68
8) Dichlorotetrafluoroethane	1.554	85	4979	0.530	ppbv	93
9) Propene	1.486	41	2017	0.511	ppbv	96
10) Heptane	4.982	43	4397m	0.430	ppbv	
11) Trichlorofluoromethane	1.878	101	5720	0.562	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.137	101	4540	0.540	ppbv	94
13) Ethanol	1.722	45	474m	0.592	ppbv	
14) Bromoethene	1.784	108	1680	0.542	ppbv #	87
15) Acetone	1.839	43	7680	0.610	ppbv #	82
16) 1,3-Butadiene	1.609	39	3044	0.549	ppbv	86
17) tert-Butyl alcohol	2.046	59	6256	0.564	ppbv #	91
18) 1,1-Dichloroethene	2.036	96	2240	0.571	ppbv	94
19) Isopropyl Alcohol	1.887	45	4208	0.604	ppbv #	96
20) Methylene Chloride	2.062	84	2594	0.686	ppbv #	80
21) Allyl Chloride	2.098	41	4420	0.546	ppbv #	93
22) trans-1,2-Dichloroethene	2.340	96	2554	0.557	ppbv	95
23) Vinyl Acetate	2.460	43	6541	0.558	ppbv #	95
24) 1,1-Dichloroethane	2.412	63	4933	0.528	ppbv	98
25) Ethyl Acetate	2.842	43	10344	0.514	ppbv #	96
26) Hexane	2.829	57	4403	0.502	ppbv	95
27) Carbon Disulfide	2.153	76	5201	0.508	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	2762	0.524	ppbv #	82
29) Chloroform	2.852	83	8791	0.535	ppbv	92
30) Cyclohexane	3.855	84	3910m	0.533	ppbv	
31) cis-1,2-Dichloroethene	2.726	61	5345m	0.522	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	8846m	0.496	ppbv	
34) 2-Butanone	2.564	43	7766	0.554	ppbv	93
35) Carbon Tetrachloride	3.768	117	8286	0.492	ppbv	86
36) Benzene	3.655	78	8951	0.490	ppbv #	92
37) 1,2-Dichloroethane	3.224	62	7149	0.507	ppbv #	95
38) Trichloroethene	4.548	130	3769m	0.541	ppbv	
39) 1,2-Dichloropropane	4.321	63	3561m	0.520	ppbv	
40) 1,4-Dioxane	4.619	88	1701m	0.534	ppbv	
41) Tetrahydrofuran	3.069	42	3187m	0.480	ppbv	
42) Bromodichloromethane	4.496	83	8212	0.477	ppbv	93
43) Methyl Methacrylate	4.891	69	3179m	0.467	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	14435m	0.489	ppbv	
45) t-1,3-Dichloropropene	6.415	75	4238m	0.473	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042461.D
 Acq On : 01 May 2025 10:40
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:42:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	5091m	0.479	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	3606m	0.480	ppbv	
48) Dibromochloromethane	7.390	129	6304m	0.498	ppbv	
49) Bromoform	9.484	173	5228	0.492	ppbv	97
50) 4-Methyl-2-Pentanone	5.771	43	8248m	0.466	ppbv	
51) 2-Hexanone	7.454	43	6283m	0.443	ppbv	
52) Tetrachloroethene	8.221	164	3151m	0.453	ppbv	
53) Toluene	6.933	91	9052m	0.468	ppbv	
54) 1,2-Dibromoethane	7.652	107	5705	0.494	ppbv	83
56) 1,1,1,2-Tetrachloroethane	8.924	131	5152	0.524	ppbv #	92
57) Chlorobenzene	8.924	112	9173	0.548	ppbv #	86
58) Ethyl Benzene	9.357	91	12427	0.446	ppbv	90
59) m/p-Xylene	9.552	91	20195m	0.865	ppbv	
60) o-Xylene	9.966	91	9976m	0.427	ppbv	
61) Styrene	9.872	104	3457m	0.396	ppbv	
62) Isopropylbenzene	10.545	105	14837	0.440	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.963	83	8135	0.537	ppbv	96
64) n-propylbenzene	10.992	120	3329m	0.405	ppbv	
65) tert-Butylbenzene	11.536	119	12655	0.421	ppbv	99
66) Benzyl Chloride	11.613	91	1317m	0.379	ppbv	
67) sec-Butylbenzene	11.769	105	17905	0.419	ppbv	97
69) p-Isopropyltoluene	11.927	119	15036	0.417	ppbv	94
70) n-Butylbenzene	12.283	91	15016	0.403	ppbv	93
71) 2-Chlorotoluene	10.905	91	11702	0.443	ppbv	99
72) 4-Ethyltoluene	11.128	105	10671	0.387	ppbv #	91
73) 1,3,5-Trimethylbenzene	11.206	105	9808	0.405	ppbv	89
74) 1,2,4-Trimethylbenzene	11.539	105	13060	0.445	ppbv #	83
75) 1,3-Dichlorobenzene	11.607	146	8127	0.498	ppbv	96
76) 1,4-Dichlorobenzene	11.675	146	7238	0.469	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	8141	0.509	ppbv	94
78) Hexachloro-1,3-Butadiene	13.886	225	8565	0.537	ppbv	99
79) Naphthalene	13.517	128	9735m	0.396	ppbv	
80) Naphthalene,2-methyl-	14.458	142	4153	0.226	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	4992	0.379	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042462.D
 Acq On : 01 May 2025 11:12
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:43:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 02 01:37:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	65449	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	186907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	157618	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	143644	9.830	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	631	0.138	ppbv #	53
32) 1,1,1-Trichloroethane	3.363	97	1860m	0.110	ppbv	
35) Carbon Tetrachloride	3.758	117	1493	0.092	ppbv #	55
38) Trichloroethene	4.551	130	784m	0.117	ppbv	
52) Tetrachloroethene	8.221	164	710m	0.106	ppbv	
54) 1,2-Dibromoethane	7.665	107	1169m	0.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	1490	0.104	ppbv #	75
79) Naphthalene	13.517	128	1135m	0.049	ppbv	

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

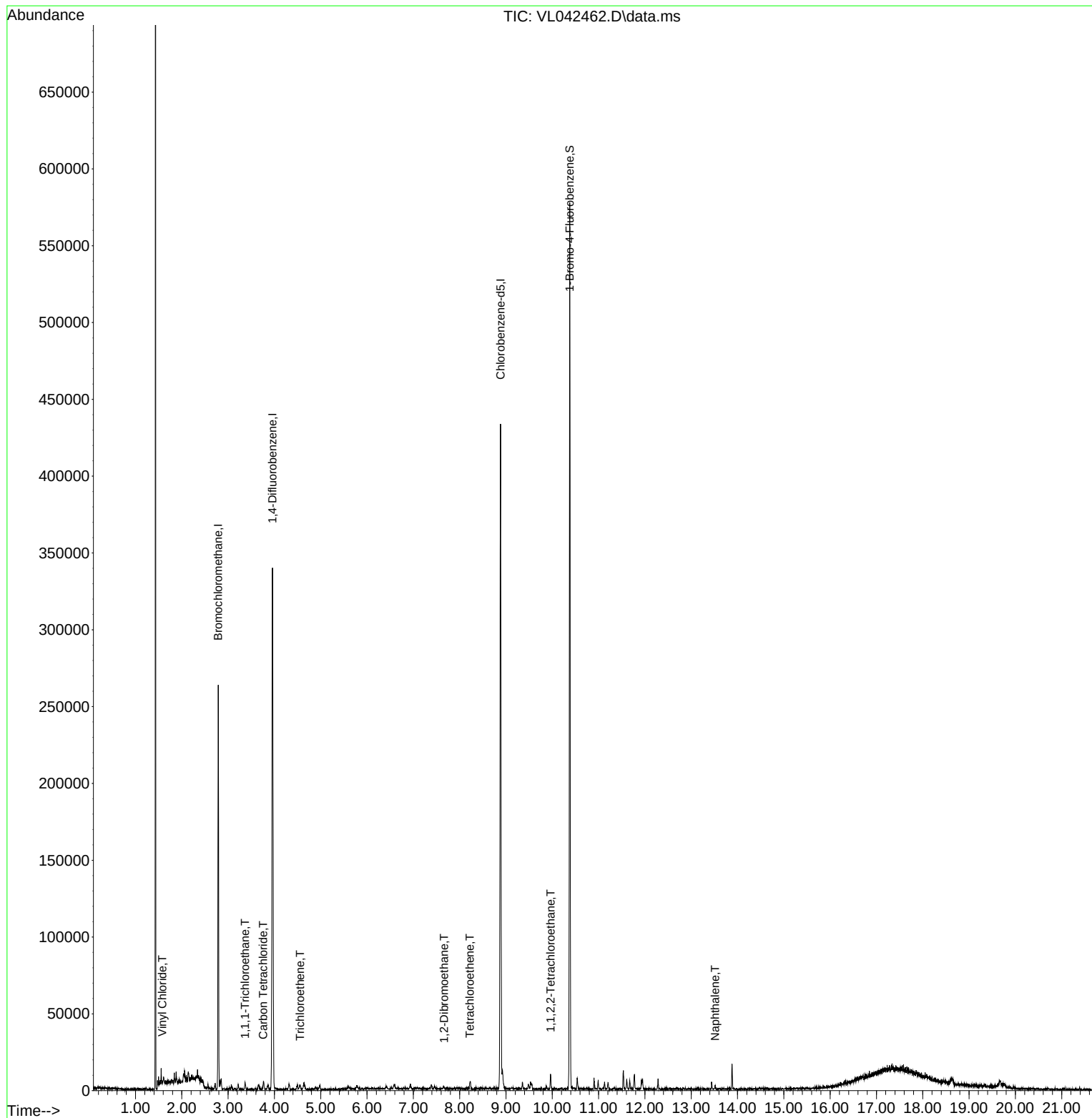
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042462.D
Acq On : 01 May 2025 11:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042465.D
 Acq On : 01 May 2025 12:49
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:45:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	64314	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	178877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	157673	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 151837 10.387 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	158069	14.852	ppbv	99
3) Chlorodifluoromethane	1.476	51	154556	13.735	ppbv	100
4) Chloromethane	1.535	50	64267	14.447	ppbv	95
5) Vinyl Chloride	1.580	62	60873	13.592	ppbv	98
6) Bromomethane	1.667	94	31246	14.766	ppbv	87
7) Chloroethane	1.703	64	25181	15.227	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	131995	15.044	ppbv	99
9) Propene	1.486	41	49647	13.489	ppbv	99
10) Heptane	4.982	43	142235	14.898	ppbv	100
11) Trichlorofluoromethane	1.878	101	152655	16.082	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	115855	14.775	ppbv	96
13) Ethanol	1.722	45	8090	10.832	ppbv	98
14) Bromoethene	1.781	108	44928	15.519	ppbv	96
15) Acetone	1.836	43	141306	12.036	ppbv	99
16) 1,3-Butadiene	1.609	39	72455	13.992	ppbv	98
17) tert-Butyl alcohol	2.043	59	144935	14.012	ppbv	99
18) 1,1-Dichloroethene	2.033	96	52813	14.424	ppbv	98
19) Isopropyl Alcohol	1.887	45	86000	13.235	ppbv #	1
20) Methylene Chloride	2.062	84	46063	13.050	ppbv	94
21) Allyl Chloride	2.098	41	112451	14.893	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	62153	14.534	ppbv	100
23) Vinyl Acetate	2.464	43	169418	15.489	ppbv	99
24) 1,1-Dichloroethane	2.409	63	127567	14.622	ppbv	97
25) Ethyl Acetate	2.836	43	269372	14.329	ppbv	100
26) Hexane	2.826	57	119552	14.598	ppbv	97
27) Carbon Disulfide	2.150	76	150258	15.722	ppbv #	92
28) Methyl tert-Butyl Ether	2.441	73	71341	14.500	ppbv	99
29) Chloroform	2.849	83	221976	14.464	ppbv	99
30) Cyclohexane	3.859	84	101146	14.771	ppbv	99
31) cis-1,2-Dichloroethene	2.723	61	133735	13.997	ppbv	93
32) 1,1,1-Trichloroethane	3.370	97	234752	14.099	ppbv	99
34) 2-Butanone	2.557	43	174521	13.488	ppbv	97
35) Carbon Tetrachloride	3.765	117	242144	15.566	ppbv	99
36) Benzene	3.658	78	239352	14.179	ppbv	98
37) 1,2-Dichloroethane	3.221	62	190179	14.618	ppbv	98
38) Trichloroethene	4.551	130	95257	14.798	ppbv	94
39) 1,2-Dichloropropane	4.312	63	84414	13.349	ppbv	93
40) 1,4-Dioxane	4.584	88	38551	13.115	ppbv #	100
41) Tetrahydrofuran	3.056	42	86296	14.063	ppbv	98
42) Bromodichloromethane	4.493	83	242556	15.259	ppbv	99
43) Methyl Methacrylate	4.885	69	98279	15.639	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	401920	14.734	ppbv	99
45) t-1,3-Dichloropropene	6.419	75	136762	16.529	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042465.D
 Acq On : 01 May 2025 12:49
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:45:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	154705m	15.749	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	99496	14.356	ppbv	93
48) Dibromochloromethane	7.393	129	180970	15.468	ppbv	98
49) Bromoform	9.487	173	152440	15.535	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	237985	14.550	ppbv	97
51) 2-Hexanone	7.438	43	197423	15.071	ppbv	99
52) Tetrachloroethene	8.228	164	85271	13.272	ppbv	90
53) Toluene	6.937	91	281731	15.768	ppbv	100
54) 1,2-Dibromoethane	7.655	107	154739	14.523	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.927	131	133410	14.326	ppbv	98
57) Chlorobenzene	8.927	112	218370	13.783	ppbv	99
58) Ethyl Benzene	9.358	91	414805	15.743	ppbv	98
59) m/p-Xylene	9.555	91	699743m	31.674	ppbv	
60) o-Xylene	9.966	91	350328	15.863	ppbv	100
61) Styrene	9.876	104	137720	16.686	ppbv	96
62) Isopropylbenzene	10.542	105	498619	15.629	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	209726	14.635	ppbv	99
64) n-propylbenzene	10.992	120	122452	15.759	ppbv	97
65) tert-Butylbenzene	11.536	119	443042	15.562	ppbv	97
66) Benzyl Chloride	11.617	91	60376	18.348	ppbv	97
67) sec-Butylbenzene	11.769	105	632600	15.636	ppbv	100
69) p-Isopropyltoluene	11.928	119	539860	15.837	ppbv	99
70) n-Butylbenzene	12.284	91	566780	16.084	ppbv	99
71) 2-Chlorotoluene	10.905	91	394227	15.755	ppbv	100
72) 4-Ethyltoluene	11.128	105	423746	16.250	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	362951	15.826	ppbv	96
74) 1,2,4-Trimethylbenzene	11.539	105	407416	14.683	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	225215	14.579	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	224505	15.357	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	216147	14.295	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	198112	13.121	ppbv	99
79) Naphthalene	13.517	128	392900	16.888	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	316493	18.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	195942	15.728	ppbv	97

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

Manual Integrations APPROVED

Quant Time: May 02 01:45:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042466.D
 Acq On : 01 May 2025 14:10
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:46:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 02 01:37:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	66546	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	186737	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	161050	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	148088	9.918	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	151	0.033	ppbv #	87
32) 1,1,1-Trichloroethane	3.370	97	595m	0.035	ppbv	
35) Carbon Tetrachloride	3.771	117	653m	0.040	ppbv	
38) Trichloroethene	4.551	130	135	0.020	ppbv #	40
52) Tetrachloroethene	8.231	164	285m	0.042	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.973	83	551m	0.038	ppbv	

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

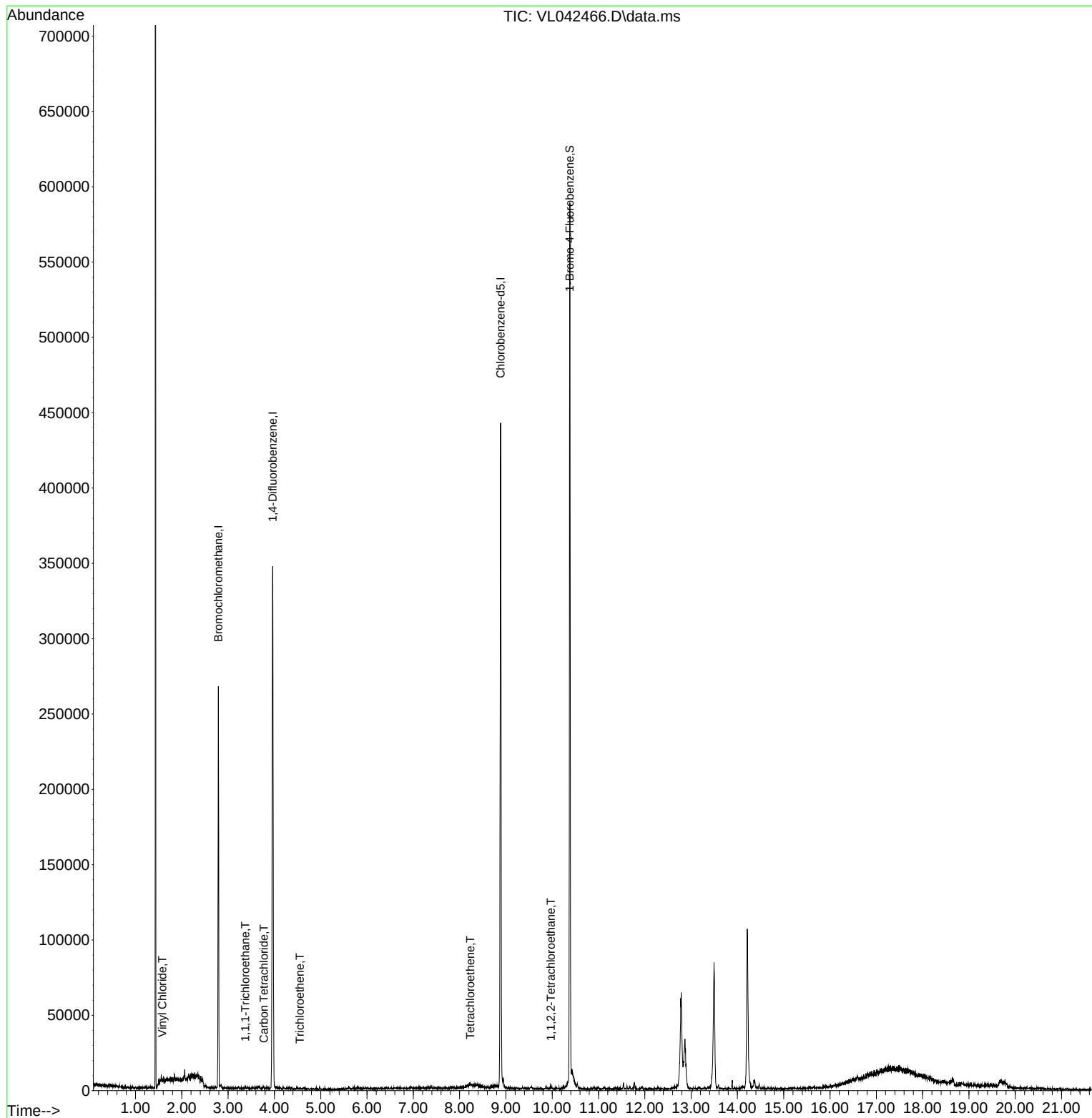
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
Data File : VL042466.D
Acq On : 01 May 2025 14:10
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:46:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 02 01:37:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042467.D
 Acq On : 01 May 2025 15:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050125

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 03:48:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	63539	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	183679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	156982	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 150522 10.342 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	108782	10.346	ppbv	97
3) Chlorodifluoromethane	1.476	51	110290	9.921	ppbv	98
4) Chloromethane	1.534	50	43950	10.001	ppbv	96
5) Vinyl Chloride	1.580	62	41181	9.307	ppbv	99
6) Bromomethane	1.667	94	21021	10.055	ppbv	91
7) Chloroethane	1.706	64	16630	10.179	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	89345	10.307	ppbv	99
9) Propene	1.486	41	36920	10.153	ppbv	97
10) Heptane	4.985	43	94631	10.033	ppbv	95
11) Trichlorofluoromethane	1.878	101	100713	10.380	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	81143	10.474	ppbv	99
13) Ethanol	1.722	45	5736	7.773	ppbv	99
14) Bromoethene	1.780	108	30094	10.522	ppbv	97
15) Acetone	1.835	43	95460	8.230	ppbv	98
16) 1,3-Butadiene	1.609	39	49566	9.689	ppbv	100
17) tert-Butyl alcohol	2.043	59	102047	9.986	ppbv	100
18) 1,1-Dichloroethene	2.033	96	35784	9.892	ppbv	98
19) Isopropyl Alcohol	1.887	45	60977	9.499	ppbv	99
20) Methylene Chloride	2.062	84	31212	8.951	ppbv	94
21) Allyl Chloride	2.098	41	73365	9.835	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	42922	10.160	ppbv	96
23) Vinyl Acetate	2.463	43	113131	10.220	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	89117	10.340	ppbv	97
25) Ethyl Acetate	2.839	43	186185	10.025	ppbv	99
26) Hexane	2.826	57	83132	10.275	ppbv	96
27) Carbon Disulfide	2.149	76	100196	10.612	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	48326	9.942	ppbv	100
29) Chloroform	2.852	83	152381	10.050	ppbv	96
30) Cyclohexane	3.858	84	70581	10.434	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	95793	10.148	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	161465	9.816	ppbv	99
34) 2-Butanone	2.560	43	125883	9.475	ppbv	97
35) Carbon Tetrachloride	3.764	117	166814	9.998	ppbv	97
36) Benzene	3.658	78	171384	9.888	ppbv	98
37) 1,2-Dichloroethane	3.221	62	130063	9.736	ppbv	100
38) Trichloroethene	4.551	130	65940	9.976	ppbv	96
39) 1,2-Dichloropropane	4.315	63	60010	9.248	ppbv	95
40) 1,4-Dioxane	4.583	88	28306m	9.316	ppbv	
41) Tetrahydrofuran	3.059	42	59604	9.440	ppbv	98
42) Bromodichloromethane	4.489	83	163210	9.999	ppbv	95
43) Methyl Methacrylate	4.881	69	67516	10.438	ppbv	99
44) 2,2,4-Trimethylpentane	4.642	57	277217	9.867	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	89638m	10.563	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042467.D
 Acq On : 01 May 2025 15:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050125

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 03:48:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	104665	10.378	ppbv	97
47) 1,1,2-Trichloroethane	6.584	97	67821	9.530	ppbv	95
48) Dibromochloromethane	7.393	129	121381	10.103	ppbv	97
49) Bromoform	9.487	173	102150	10.138	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	159280	9.478	ppbv	99
51) 2-Hexanone	7.438	43	126396	9.407	ppbv #	98
52) Tetrachloroethene	8.228	164	58272	8.832	ppbv	96
53) Toluene	6.940	91	191922	10.461	ppbv	99
54) 1,2-Dibromoethane	7.658	107	105149	9.664	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.927	131	92337	9.959	ppbv	97
57) Chlorobenzene	8.927	112	148759	9.431	ppbv	92
58) Ethyl Benzene	9.357	91	280660	10.698	ppbv	99
59) m/p-Xylene	9.555	91	468984m	21.324	ppbv	
60) o-Xylene	9.966	91	238347	10.824	ppbv	97
61) Styrene	9.872	104	91128	11.090	ppbv	97
62) Isopropylbenzene	10.542	105	337992	10.641	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	140306	9.242	ppbv	100
64) n-propylbenzene	10.992	120	79983	10.303	ppbv	99
65) tert-Butylbenzene	11.536	119	302506	10.672	ppbv	99
66) Benzyl Chloride	11.617	91	34933	10.663	ppbv	97
67) sec-Butylbenzene	11.769	105	425444	10.562	ppbv	99
69) p-Isopropyltoluene	11.927	119	363563	10.712	ppbv	98
70) n-Butylbenzene	12.283	91	371369	10.585	ppbv	99
71) 2-Chlorotoluene	10.905	91	264063	10.599	ppbv	99
72) 4-Ethyltoluene	11.128	105	287375	11.069	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	247128	10.823	ppbv	93
74) 1,2,4-Trimethylbenzene	11.539	105	278306	10.074	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	150026	9.754	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	151740	10.425	ppbv	97
77) 1,2-Dichlorobenzene	11.950	146	146314	9.719	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	133688	8.893	ppbv	99
79) Naphthalene	13.516	128	251318	10.806	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	198604	11.489	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	129406	10.433	ppbv	98

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

Manual Integrations APPROVED

Quant Time: May 02 03:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042467.D
 Acq On : 01 May 2025 15:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL050125

Quant Time: May 02 03:48:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	89	0.00
2 T	Dichlorodifluoromethane	1.655	1.712	-3.4	104	0.00
3	Chlorodifluoromethane	1.750	1.736	0.8	98	0.00
4	Chloromethane	0.692	0.692	0.0	99	0.00
5 T	Vinyl Chloride	0.696	0.648	6.9	102	0.00
6 T	Bromomethane	0.329	0.331	-0.6	103	0.00
7	Chloroethane	0.257	0.262	-1.9	101	0.00
8 T	Dichlorotetrafluoroethane	1.364	1.406	-3.1	101	0.00
9 T	Propene	0.572	0.581	-1.6	98	0.00
10 T	Heptane	1.484	1.489	-0.3	92	0.00
11 T	Trichlorofluoromethane	1.527	1.585	-3.8	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.219	1.277	-4.8	103	0.00
13	Ethanol	0.116	0.090	22.4	101	0.00
14 T	Bromoethene	0.450	0.474	-5.3	106	0.00
15 T	Acetone	1.826	1.502	17.7	101	0.00
16 T	1,3-Butadiene	0.805	0.780	3.1	102	0.00
17	tert-Butyl alcohol	1.608	1.606	0.1	96	0.00
18 T	1,1-Dichloroethene	0.569	0.563	1.1	101	0.00
19 T	Isopropyl Alcohol	1.010	0.960	5.0	98	0.00
20 T	Methylene Chloride	0.549	0.491	10.6	97	0.00
21 T	Allyl Chloride	1.174	1.155	1.6	95	0.00
22 T	trans-1,2-Dichloroethene	0.665	0.676	-1.7	109	0.00
23 T	Vinyl Acetate	1.742	1.780	-2.2	92	0.00
24 T	1,1-Dichloroethane	1.357	1.403	-3.4	104	0.00
25 T	Ethyl Acetate	2.923	2.930	-0.2	92	0.00
26 T	Hexane	1.273	1.308	-2.7	96	0.00
27 T	Carbon Disulfide	1.486	1.577	-6.1	99	0.00
28 T	Methyl tert-Butyl Ether	0.765	0.761	0.5	101	0.00
29 T	Chloroform	2.386	2.398	-0.5	97	0.00
30 T	Cyclohexane	1.065	1.111	-4.3	95	0.00
31 T	cis-1,2-Dichloroethene	1.486	1.508	-1.5	100	0.00
32 T	1,1,1-Trichloroethane	2.589	2.541	1.9	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.723	0.685	5.3	95	0.00
35 T	Carbon Tetrachloride	0.908	0.908	0.0	100	0.00
36 T	Benzene	0.944	0.933	1.2	95	0.00
37 T	1,2-Dichloroethane	0.727	0.708	2.6	97	0.00
38 T	Trichloroethene	0.360	0.359	0.3	94	0.00
39 T	1,2-Dichloropropane	0.353	0.327	7.4	94	0.00
40 T	1,4-Dioxane	0.165	0.154	6.7	93	0.00
41 T	Tetrahydrofuran	0.344	0.325	5.5	91	0.00
42 T	Bromodichloromethane	0.889	0.889	0.0	97	0.00
43	Methyl Methacrylate	0.352	0.368	-4.5	92	0.00
44 T	2,2,4-Trimethylpentane	1.530	1.509	1.4	96	0.00
45 T	t-1,3-Dichloropropene	0.462	0.488	-5.6	93	0.00
46 T	cis-1,3-Dichloropropene	0.549	0.570	-3.8	94	0.00
47 T	1,1,2-Trichloroethane	0.387	0.369	4.7	94	0.00
48 T	Dibromochloromethane	0.654	0.661	-1.1	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042467.D
 Acq On : 01 May 2025 15:46
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL050125

Quant Time: May 02 03:48:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.556	-1.3	96	0.00
50 T	4-Methyl-2-Pentanone	0.915	0.867	5.2	91	0.00
51 T	2-Hexanone	0.731	0.688	5.9	87	0.00
52 T	Tetrachloroethene	0.359	0.317	11.7	95	0.00
53 T	Toluene	0.999	1.045	-4.6	94	0.00
54 T	1,2-Dibromoethane	0.592	0.572	3.4	94	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.591	0.588	0.5	98	0.00
57 T	Chlorobenzene	1.005	0.948	5.7	95	0.00
58 T	Ethyl Benzene	1.671	1.788	-7.0	93	0.00
59 T	m/p-Xylene	1.401	1.494	-6.6	94	0.03
60 T	o-Xylene	1.403	1.518	-8.2	96	0.00
61 T	Styrene	0.523	0.580	-10.9	90	0.00
62	Isopropylbenzene	2.023	2.153	-6.4	95	0.00
63 T	1,1,2,2-Tetrachloroethane	0.967	0.894	7.5	95	0.00
64	n-propylbenzene	0.495	0.510	-3.0	95	0.00
65	tert-Butylbenzene	1.806	1.927	-6.7	96	0.00
66 T	Benzyl Chloride	0.209	0.223	-6.7	87	0.00
67	sec-Butylbenzene	2.566	2.710	-5.6	96	0.00
68 S	1-Bromo-4-Fluorobenzene	0.927	0.959	-3.5	91	0.00
69	p-Isopropyltoluene	2.162	2.316	-7.1	97	0.00
70	n-Butylbenzene	2.235	2.366	-5.9	97	0.00
71	2-Chlorotoluene	1.587	1.682	-6.0	95	0.00
72 T	4-Ethyltoluene	1.654	1.831	-10.7	96	0.00
73 T	1,3,5-Trimethylbenzene	1.455	1.574	-8.2	96	0.00
74 T	1,2,4-Trimethylbenzene	1.760	1.773	-0.7	97	0.00
75 T	1,3-Dichlorobenzene	0.980	0.956	2.4	96	0.00
76 T	1,4-Dichlorobenzene	0.927	0.967	-4.3	96	0.00
77 T	1,2-Dichlorobenzene	0.959	0.932	2.8	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.958	0.852	11.1	99	0.00
79 T	Naphthalene	1.482	1.601	-8.0	94	0.00
80 T	Naphthalene,2-methyl-	1.101	1.265	-14.9	97	0.00
81 T	1,2,4-Trichlorobenzene	0.790	0.824	-4.3	96	0.00

(#) = Out of Range

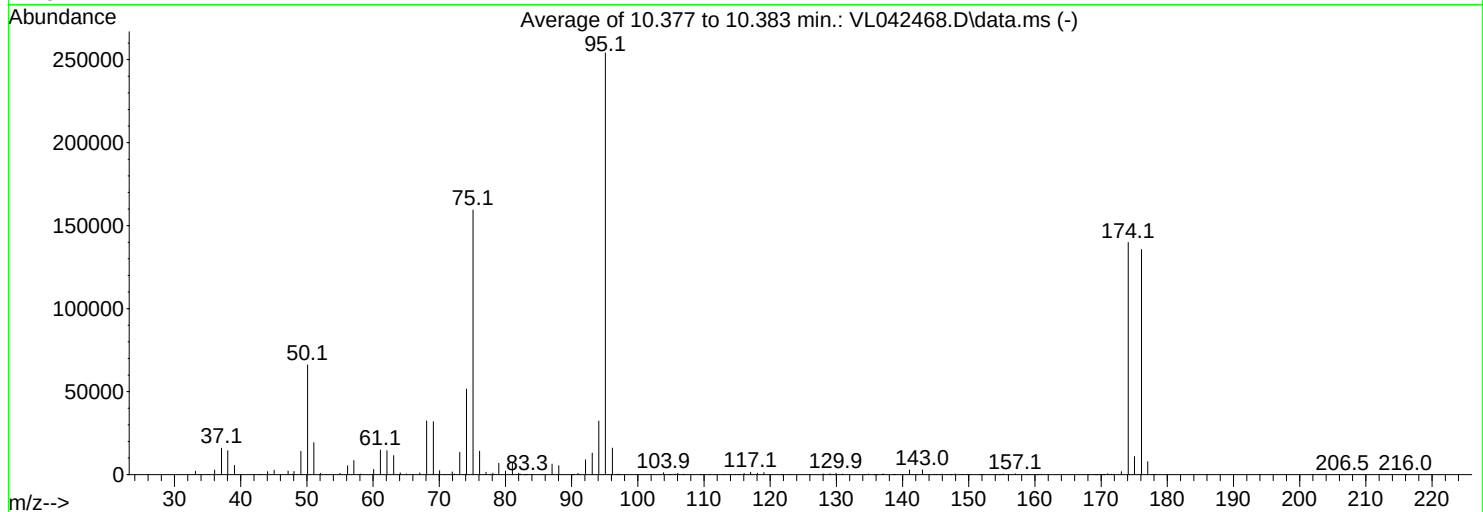
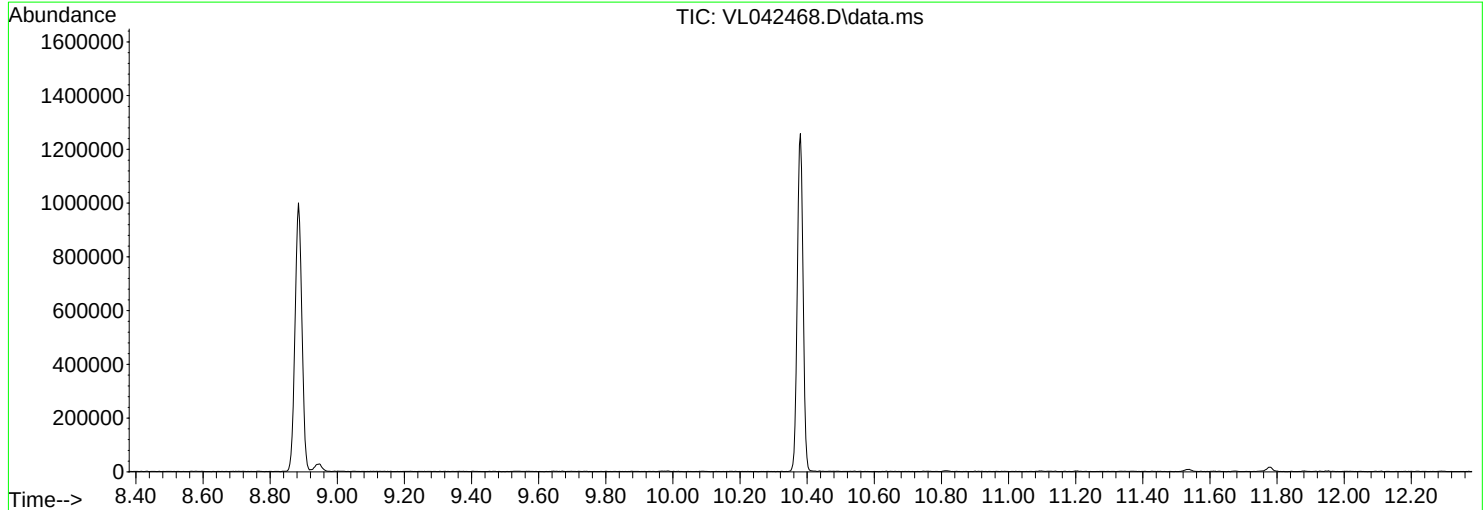
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042468.D
Acq On : 05 May 2025 07:45
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri May 02 03:16:31 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3162

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	26.0	66184	PASS
75	95	30	66	62.7	159424	PASS
95	95	100	100	100.0	254123	PASS
96	95	5	9	6.3	15968	PASS
173	174	0.00	2	1.3	1836	PASS
174	95	50	120	55.0	139883	PASS
175	174	4	9	7.8	10890	PASS
176	174	93	101	97.0	135672	PASS
177	176	5	9	5.8	7826	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042469.D
 Acq On : 05 May 2025 08:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
 Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 01:38:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	74861	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	207859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	180939	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 171319 10.212 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	125145	10.102	ppbv	99
3) Chlorodifluoromethane	1.476	51	122899	9.383	ppbv	99
4) Chloromethane	1.534	50	49599	9.579	ppbv	92
5) Vinyl Chloride	1.580	62	46672	8.953	ppbv	98
6) Bromomethane	1.667	94	26234	10.651	ppbv	92
7) Chloroethane	1.706	64	19310	10.032	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	104312	10.214	ppbv	99
9) Propene	1.486	41	39686	9.264	ppbv	98
10) Heptane	4.985	43	109506	9.854	ppbv	99
11) Trichlorofluoromethane	1.878	101	117806	10.305	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	92903	10.178	ppbv	99
13) Ethanol	1.722	45	6032	6.938	ppbv	97
14) Bromoethene	1.784	108	33877	10.053	ppbv	99
15) Acetone	1.835	43	110962	8.120	ppbv	99
16) 1,3-Butadiene	1.609	39	56863	9.434	ppbv	99
17) tert-Butyl alcohol	2.043	59	124285	10.323	ppbv	100
18) 1,1-Dichloroethene	2.036	96	42276	9.919	ppbv	96
19) Isopropyl Alcohol	1.887	45	73049	9.658	ppbv	99
20) Methylene Chloride	2.062	84	36341	8.845	ppbv	96
21) Allyl Chloride	2.098	41	87203	9.922	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	47159	9.474	ppbv	92
23) Vinyl Acetate	2.463	43	134402	10.305	ppbv	98
24) 1,1-Dichloroethane	2.412	63	97677	9.619	ppbv	100
25) Ethyl Acetate	2.839	43	212175	9.697	ppbv	100
26) Hexane	2.826	57	95290	9.996	ppbv	95
27) Carbon Disulfide	2.153	76	120890	10.867	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	54017	9.432	ppbv	96
29) Chloroform	2.852	83	173954	9.738	ppbv	97
30) Cyclohexane	3.858	84	78668	9.871	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	107420	9.659	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	184899	9.540	ppbv	99
34) 2-Butanone	2.560	43	134813	8.967	ppbv	93
35) Carbon Tetrachloride	3.765	117	191095	10.120	ppbv	97
36) Benzene	3.661	78	192975	9.838	ppbv	96
37) 1,2-Dichloroethane	3.221	62	146792	9.710	ppbv	99
38) Trichloroethene	4.554	130	76779	10.264	ppbv	89
39) 1,2-Dichloropropane	4.318	63	67421	9.181	ppbv	93
40) 1,4-Dioxane	4.590	88	29648	8.622	ppbv #	100
41) Tetrahydrofuran	3.059	42	66188	9.263	ppbv	97
42) Bromodichloromethane	4.496	83	191130	10.347	ppbv	98
43) Methyl Methacrylate	4.881	69	76368	10.433	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	312811	9.838	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	105437	10.980	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042469.D
 Acq On : 05 May 2025 08:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 01:38:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	117796	10.321	ppbv	96
47) 1,1,2-Trichloroethane	6.590	97	77722	9.651	ppbv	90
48) Dibromochloromethane	7.393	129	143524	10.556	ppbv	97
49) Bromoform	9.490	173	118610	10.402	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	183038	9.625	ppbv	98
51) 2-Hexanone	7.445	43	147526	9.703	ppbv #	97
52) Tetrachloroethene	8.231	164	67482	9.038	ppbv	95
53) Toluene	6.940	91	220871	10.638	ppbv	98
54) 1,2-Dibromoethane	7.658	107	119914	9.739	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.930	131	106249	9.942	ppbv	99
57) Chlorobenzene	8.927	112	168792	9.284	ppbv	96
58) Ethyl Benzene	9.361	91	317094	10.487	ppbv	100
59) m/p-Xylene	9.558	91	541542m	21.363	ppbv	
60) o-Xylene	9.969	91	267806	10.552	ppbv	100
61) Styrene	9.879	104	105698	11.160	ppbv	97
62) Isopropylbenzene	10.545	105	385788	10.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	159883	9.137	ppbv	99
64) n-propylbenzene	10.992	120	93317	10.429	ppbv	98
65) tert-Butylbenzene	11.536	119	349071	10.684	ppbv	99
66) Benzyl Chloride	11.620	91	50060	13.257	ppbv	96
67) sec-Butylbenzene	11.772	105	490679	10.568	ppbv	99
69) p-Isopropyltoluene	11.931	119	417116	10.663	ppbv	99
70) n-Butylbenzene	12.287	91	427083	10.561	ppbv	99
71) 2-Chlorotoluene	10.905	91	301623	10.504	ppbv	98
72) 4-Ethyltoluene	11.128	105	326323	10.905	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	283998	10.791	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	320216	10.056	ppbv	94
75) 1,3-Dichlorobenzene	11.610	146	171827	9.693	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	177262	10.566	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	167623	9.660	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	154431	8.913	ppbv	100
79) Naphthalene	13.517	128	294069	10.970	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	236563	11.873	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	151252	10.580	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042469.D
 Acq On : 05 May 2025 08:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 06 01:38:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	105	0.00
2 T	Dichlorodifluoromethane	1.655	1.672	-1.0	119	0.00
3	Chlorodifluoromethane	1.750	1.642	6.2	110	0.00
4	Chloromethane	0.692	0.663	4.2	111	0.00
5 T	Vinyl Chloride	0.696	0.623	10.5	115	0.00
6 T	Bromomethane	0.329	0.350	-6.4	129	0.00
7	Chloroethane	0.257	0.258	-0.4	117	0.00
8 T	Dichlorotetrafluoroethane	1.364	1.393	-2.1	118	0.00
9 T	Propene	0.572	0.530	7.3	106	0.00
10 T	Heptane	1.484	1.463	1.4	106	0.00
11 T	Trichlorofluoromethane	1.527	1.574	-3.1	120	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.219	1.241	-1.8	118	0.00
13	Ethanol	0.116	0.081	30.2#	106	0.00
14 T	Bromoethene	0.450	0.453	-0.7	119	0.00
15 T	Acetone	1.826	1.482	18.8	118	0.00
16 T	1,3-Butadiene	0.805	0.760	5.6	117	0.00
17	tert-Butyl alcohol	1.608	1.660	-3.2	117	0.00
18 T	1,1-Dichloroethene	0.569	0.565	0.7	120	0.00
19 T	Isopropyl Alcohol	1.010	0.976	3.4	117	0.00
20 T	Methylene Chloride	0.549	0.485	11.7	113	0.00
21 T	Allyl Chloride	1.174	1.165	0.8	113	0.00
22 T	trans-1,2-Dichloroethene	0.665	0.630	5.3	120	0.00
23 T	Vinyl Acetate	1.742	1.795	-3.0	109	0.00
24 T	1,1-Dichloroethane	1.357	1.305	3.8	114	0.00
25 T	Ethyl Acetate	2.923	2.834	3.0	105	0.00
26 T	Hexane	1.273	1.273	0.0	110	0.00
27 T	Carbon Disulfide	1.486	1.615	-8.7	119	0.00
28 T	Methyl tert-Butyl Ether	0.765	0.722	5.6	113	0.00
29 T	Chloroform	2.386	2.324	2.6	111	0.00
30 T	Cyclohexane	1.065	1.051	1.3	105	0.00
31 T	cis-1,2-Dichloroethene	1.486	1.435	3.4	112	0.00
32 T	1,1,1-Trichloroethane	2.589	2.470	4.6	113	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
34 T	2-Butanone	0.723	0.649	10.2	102	0.00
35 T	Carbon Tetrachloride	0.908	0.919	-1.2	115	0.00
36 T	Benzene	0.944	0.928	1.7	107	0.00
37 T	1,2-Dichloroethane	0.727	0.706	2.9	110	0.00
38 T	Trichloroethene	0.360	0.369	-2.5	110	0.00
39 T	1,2-Dichloropropane	0.353	0.324	8.2	106	0.00
40 T	1,4-Dioxane	0.165	0.143	13.3	98	0.00
41 T	Tetrahydrofuran	0.344	0.318	7.6	101	0.00
42 T	Bromodichloromethane	0.889	0.920	-3.5	113	0.00
43	Methyl Methacrylate	0.352	0.367	-4.3	104	0.00
44 T	2,2,4-Trimethylpentane	1.530	1.505	1.6	108	0.00
45 T	t-1,3-Dichloropropene	0.462	0.507	-9.7	109	0.00
46 T	cis-1,3-Dichloropropene	0.549	0.567	-3.3	105	0.00
47 T	1,1,2-Trichloroethane	0.387	0.374	3.4	108	0.00
48 T	Dibromochloromethane	0.654	0.690	-5.5	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042469.D
 Acq On : 05 May 2025 08:29
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: May 06 01:38:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.571	-4.0	112	0.00
50 T	4-Methyl-2-Pentanone	0.915	0.881	3.7	104	0.00
51 T	2-Hexanone	0.731	0.710	2.9	102	0.00
52 T	Tetrachloroethene	0.359	0.325	9.5	110	0.00
53 T	Toluene	0.999	1.063	-6.4	108	0.00
54 T	1,2-Dibromoethane	0.592	0.577	2.5	108	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
56	1,1,1,2-Tetrachloroethane	0.591	0.587	0.7	113	0.00
57 T	Chlorobenzene	1.005	0.933	7.2	107	0.00
58 T	Ethyl Benzene	1.671	1.752	-4.8	106	0.00
59 T	m/p-Xylene	1.401	1.496	-6.8	109	0.03
60 T	o-Xylene	1.403	1.480	-5.5	108	0.00
61 T	Styrene	0.523	0.584	-11.7	104	0.00
62	Isopropylbenzene	2.023	2.132	-5.4	109	0.00
63 T	1,1,2,2-Tetrachloroethane	0.967	0.884	8.6	109	0.00
64	n-propylbenzene	0.495	0.516	-4.2	111	0.00
65	tert-Butylbenzene	1.806	1.929	-6.8	110	0.00
66 T	Benzyl Chloride	0.209	0.277	-32.5#	124	0.00
67	sec-Butylbenzene	2.566	2.712	-5.7	111	0.00
68 S	1-Bromo-4-Fluorobenzene	0.927	0.947	-2.2	103	0.00
69	p-Isopropyltoluene	2.162	2.305	-6.6	111	0.00
70	n-Butylbenzene	2.235	2.360	-5.6	112	0.00
71	2-Chlorotoluene	1.587	1.667	-5.0	108	0.00
72 T	4-Ethyltoluene	1.654	1.803	-9.0	109	0.00
73 T	1,3,5-Trimethylbenzene	1.455	1.570	-7.9	111	0.00
74 T	1,2,4-Trimethylbenzene	1.760	1.770	-0.6	112	0.00
75 T	1,3-Dichlorobenzene	0.980	0.950	3.1	110	0.00
76 T	1,4-Dichlorobenzene	0.927	0.980	-5.7	112	0.00
77 T	1,2-Dichlorobenzene	0.959	0.926	3.4	111	0.00
78 T	Hexachloro-1,3-Butadiene	0.958	0.853	11.0	115	0.00
79 T	Naphthalene	1.482	1.625	-9.6	111	0.00
80 T	Naphthalene,2-methyl-	1.101	1.307	-18.7	116	0.00
81 T	1,2,4-Trichlorobenzene	0.790	0.836	-5.8	112	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042470.D
 Acq On : 05 May 2025 09:19
 Operator : SY/MD
 Sample : VL0505ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0505ABL01

Quant Time: May 06 01:38:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	74757	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	208518	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	177829	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	161047	9.768	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%

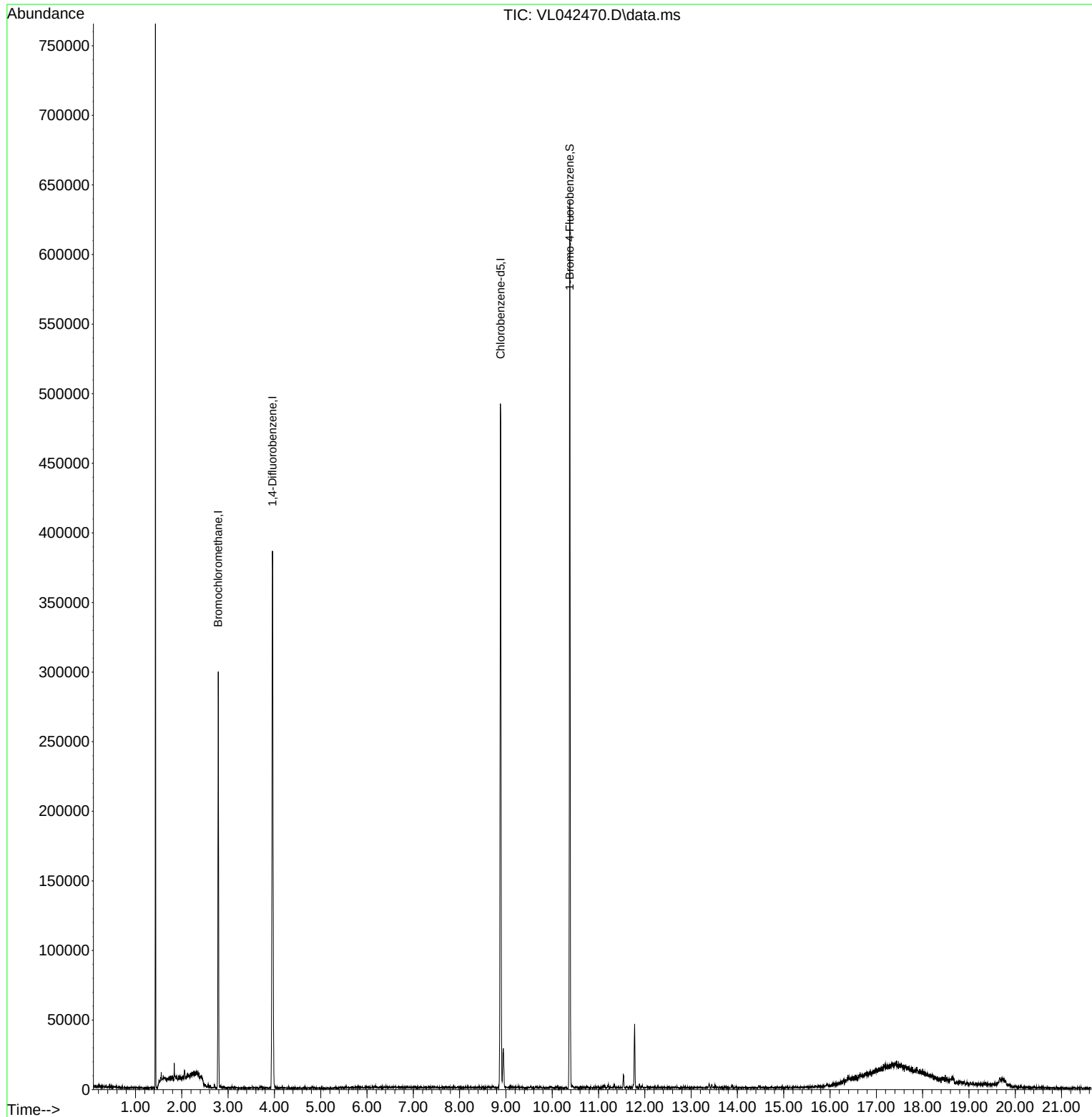
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042470.D
Acq On : 05 May 2025 09:19
Operator : SY/MD
Sample : VL0505ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0505ABL01

Quant Time: May 06 01:38:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042471.D
 Acq On : 05 May 2025 10:07
 Operator : SY/MD
 Sample : VL0505ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0505ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/06/2025
 Supervised By : Mahesh Dadoda 05/06/2025

Quant Time: May 06 01:39:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	73094	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	206118	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	177063	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 168649 10.273 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	124629	10.303	ppbv	97
3) Chlorodifluoromethane	1.476	51	121193	9.477	ppbv	100
4) Chloromethane	1.531	50	48459	9.585	ppbv	97
5) Vinyl Chloride	1.580	62	48263	9.482	ppbv	97
6) Bromomethane	1.667	94	24122	10.030	ppbv	89
7) Chloroethane	1.703	64	19046	10.134	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	103007	10.330	ppbv	99
9) Propene	1.483	41	38988	9.321	ppbv	99
10) Heptane	4.985	43	105620m	9.734	ppbv	
11) Trichlorofluoromethane	1.878	101	115696	10.365	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	90819	10.191	ppbv	99
13) Ethanol	1.722	45	5973	7.037	ppbv	99
14) Bromoethene	1.780	108	33388	10.148	ppbv	98
15) Acetone	1.835	43	106709	7.997	ppbv	99
16) 1,3-Butadiene	1.609	39	57359	9.746	ppbv	99
17) tert-Butyl alcohol	2.039	59	117319	9.980	ppbv	98
18) 1,1-Dichloroethene	2.033	96	41229	9.907	ppbv	98
19) Isopropyl Alcohol	1.887	45	70522	9.550	ppbv	100
20) Methylene Chloride	2.062	84	35706	8.901	ppbv	94
21) Allyl Chloride	2.094	41	84722	9.873	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	46305	9.528	ppbv	95
23) Vinyl Acetate	2.463	43	130023	10.210	ppbv #	97
24) 1,1-Dichloroethane	2.408	63	98989	9.984	ppbv	99
25) Ethyl Acetate	2.836	43	207844	9.728	ppbv	100
26) Hexane	2.826	57	90030	9.673	ppbv	98
27) Carbon Disulfide	2.149	76	115286	10.614	ppbv	94
28) Methyl tert-Butyl Ether	2.441	73	58319	10.429	ppbv	100
29) Chloroform	2.849	83	168484	9.660	ppbv	98
30) Cyclohexane	3.858	84	78428	10.078	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	104191	9.595	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	182273	9.632	ppbv	99
34) 2-Butanone	2.557	43	133597	8.961	ppbv	95
35) Carbon Tetrachloride	3.761	117	188916	10.090	ppbv	95
36) Benzene	3.661	78	188320	9.682	ppbv	97
37) 1,2-Dichloroethane	3.221	62	145347	9.695	ppbv	100
38) Trichloroethene	4.548	130	74307m	10.017	ppbv	
39) 1,2-Dichloropropane	4.315	63	66905	9.188	ppbv	88
40) 1,4-Dioxane	4.580	88	31401	9.209	ppbv #	100
41) Tetrahydrofuran	3.056	42	66257	9.351	ppbv	97
42) Bromodichloromethane	4.489	83	189214	10.330	ppbv	93
43) Methyl Methacrylate	4.881	69	74953	10.326	ppbv	97
44) 2,2,4-Trimethylpentane	4.642	57	307008	9.737	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	103231	10.841	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042471.D
 Acq On : 05 May 2025 10:07
 Operator : SY/MD
 Sample : VL0505ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0505ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2025
 Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 01:39:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	116725	10.313	ppbv	95
47) 1,1,2-Trichloroethane	6.584	97	77049	9.648	ppbv #	92
48) Dibromochloromethane	7.390	129	138518	10.274	ppbv	97
49) Bromoform	9.487	173	114364	10.115	ppbv	99
50) 4-Methyl-2-Pentanone	5.752	43	177898	9.433	ppbv	99
51) 2-Hexanone	7.438	43	145213	9.631	ppbv	98
52) Tetrachloroethene	8.228	164	67191	9.076	ppbv	86
53) Toluene	6.936	91	214815	10.434	ppbv	98
54) 1,2-Dibromoethane	7.655	107	117449	9.619	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.927	131	103494	9.897	ppbv	98
57) Chlorobenzene	8.924	112	168941	9.495	ppbv	94
58) Ethyl Benzene	9.357	91	312698	10.568	ppbv	96
59) m/p-Xylene	9.552	91	532663m	21.473	ppbv	
60) o-Xylene	9.966	91	267198	10.758	ppbv	100
61) Styrene	9.875	104	103232	11.138	ppbv	97
62) Isopropylbenzene	10.542	105	380840	10.630	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	155457	9.079	ppbv	100
64) n-propylbenzene	10.992	120	93814	10.714	ppbv	94
65) tert-Butylbenzene	11.532	119	342014	10.697	ppbv	97
66) Benzyl Chloride	11.620	91	45711	12.370	ppbv	98
67) sec-Butylbenzene	11.769	105	480000	10.565	ppbv	99
69) p-Isopropyltoluene	11.927	119	412889	10.786	ppbv	99
70) n-Butylbenzene	12.283	91	425652	10.756	ppbv	98
71) 2-Chlorotoluene	10.905	91	301813	10.741	ppbv	100
72) 4-Ethyltoluene	11.128	105	326835	11.161	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	280716	10.900	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	316052	10.143	ppbv	99
75) 1,3-Dichlorobenzene	11.610	146	174274	10.046	ppbv	97
76) 1,4-Dichlorobenzene	11.675	146	174860	10.651	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	166423	9.801	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	153156	9.032	ppbv	99
79) Naphthalene	13.513	128	286218	10.911	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	232641	11.932	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	147081	10.513	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042485.D
 Acq On : 05 May 2025 20:26
 Operator : SY/MD
 Sample : QC042825 CAN 10492
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC042825 CAN 10492

Quant Time: May 06 01:46:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	62446	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	169909	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	147043	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	133429	9.787	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%

Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
Data File : VL042485.D
Acq On : 05 May 2025 20:26
Operator : SY/MD
Sample : QC042825 CAN 10492
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC042825 CAN 10492

Quant Time: May 06 01:46:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
Response via : Initial Calibration

