

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052025

Review By	MMDadoda	Review On	5/21/2025 3:44:14 PM
Supervise By		Supervise On	
SubDirectory	VL052025	HP Acquire Method	TO15AIR.M
		HP Processing Method	vl052025air.m
STD. NAME	STD REF.#		
Tune/Reschk	AP2615		
Initial Calibration Stds	AP2619,AP2620,AP2621		
CCC	AP2619		
Internal Standard/PEM	AP2615		
ICV/I.BLK	AP2622		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042545.D	20 May 2025 08:27	SY/MD	Ok
2	VSTDICCC010	VL042546.D	20 May 2025 09:12	SY/MD	Ok,M
3	VSTDICCC002	VL042547.D	20 May 2025 09:46	SY/MD	Ok,M
4	VSTDICCC001	VL042548.D	20 May 2025 10:18	SY/MD	Ok,M
5	VSTDICCC0.5	VL042549.D	20 May 2025 10:50	SY/MD	Ok,M
6	VSTDICCC0.1	VL042550.D	20 May 2025 11:22	SY/MD	Not Ok
7	VSTDICCC0.03	VL042551.D	20 May 2025 11:54	SY/MD	Ok,M
8	VSTDICCC015	VL042552.D	20 May 2025 13:28	SY/MD	Ok,M
9	VSTDICCC0.1	VL042553.D	20 May 2025 14:01	SY/MD	Ok,M
10	VSTDICCV010	VL042554.D	20 May 2025 15:25	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052125

Review By	MMDadoda	Review On	5/22/2025 8:23:14 AM
Supervise By		Supervise On	
SubDirectory	VL052125	HP Acquire Method	TO15AIR.M
		HP Processing Method	vl052025air.m
STD. NAME	STD REF.#		
Tune/Reschk	AP2615		
Initial Calibration Stds	AP2619,AP2620,AP2621		
CCC	AP2619		
Internal Standard/PEM	AP2615		
ICV/I.BLK	AP2622		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042555.D	21 May 2025 07:53	SY/MD	Ok
2	VSTDCCC010	VL042556.D	21 May 2025 08:38	SY/MD	Ok,M
3	VL0521ABL01	VL042557.D	21 May 2025 09:28	SY/MD	Ok
4	VL0521ABS01	VL042558.D	21 May 2025 10:12	SY/MD	Ok,M
5	MDL 0.03	VL042559.D	21 May 2025 10:55	SY/MD	Ok,M
6	MDL 0.03	VL042560.D	21 May 2025 11:27	SY/MD	Ok,M
7	MDL 0.03	VL042561.D	21 May 2025 11:59	SY/MD	Ok,M
8	QC051925 CAN 10158	VL042562.D	21 May 2025 12:33	SY/MD	Ok
9	QC051225 CAN 10401	VL042563.D	21 May 2025 13:40	SY/MD	Ok
10	QC051325 CAN 10331	VL042564.D	21 May 2025 14:14	SY/MD	Ok
11	MDL 0.45	VL042565.D	21 May 2025 14:46	SY/MD	Ok,M
12	MDL 0.45	VL042566.D	21 May 2025 15:18	SY/MD	Ok,M
13	MDL 0.1	VL042567.D	21 May 2025 15:49	SY/MD	Ok,M
14	MDL 0.1	VL042568.D	21 May 2025 16:21	SY/MD	Ok,M
15	MDL 0.40	VL042569.D	21 May 2025 16:53	SY/MD	Ok,M
16	MDL 0.40	VL042570.D	21 May 2025 17:25	SY/MD	Ok,M

M : Manual Integration

Process Report

Order ID : Q2518

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
07/10/2025	B2506065	Q2518-02	-7.1	10602	6 L	10707		C2505003	VL042562.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D
07/10/2025	B2506065	Q2518-01	-7.1	10281	6 L	10185		C2505001	VL042563.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042546.D
 Acq On : 20 May 2025 09:12
 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 05/21/2025
 Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:24:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	120933	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	411974	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	367493	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 298085 10.135 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	212032	9.376	ppbv	100
3) Chlorodifluoromethane	1.476	51	178000	9.555	ppbv	100
4) Chloromethane	1.535	50	68379	9.385	ppbv	100
5) Vinyl Chloride	1.580	62	72897	9.075	ppbv	100
6) Bromomethane	1.671	94	44344	9.596	ppbv	100
7) Chloroethane	1.706	64	30407	9.414	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	182388	9.521	ppbv	100
9) Propene	1.486	41	64322	9.933	ppbv	100
10) Heptane	4.988	43	183291	10.744	ppbv	100
11) Trichlorofluoromethane	1.878	101	222051	9.404	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	181177	9.518	ppbv	100
13) Ethanol	1.722	45	7286	7.762	ppbv	100
14) Bromoethene	1.784	108	67627	9.404	ppbv	100
15) Acetone	1.836	43	135337	8.031	ppbv	100
16) 1,3-Butadiene	1.609	39	63306	9.253	ppbv	100
17) tert-Butyl alcohol	2.043	59	193722	9.947	ppbv	100
18) 1,1-Dichloroethene	2.036	96	81674	9.495	ppbv	100
19) Isopropyl Alcohol	1.887	45	92795	9.683	ppbv	100
20) Methylene Chloride	2.062	84	69425	8.508	ppbv	100
21) Allyl Chloride	2.098	41	105332	9.758	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	92908	9.730	ppbv	100
23) Vinyl Acetate	2.467	43	197396	10.090	ppbv	100
24) 1,1-Dichloroethane	2.412	63	157576	9.628	ppbv	100
25) Ethyl Acetate	2.839	43	337411	10.357	ppbv	100
26) Hexane	2.829	57	155381	10.549	ppbv	100
27) Carbon Disulfide	2.153	76	213850	10.023	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	95511	9.623	ppbv	100
29) Chloroform	2.852	83	268571	9.642	ppbv	100
30) Cyclohexane	3.862	84	140511	11.027	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	164131	10.135	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	280218	9.844	ppbv	100
34) 2-Butanone	2.561	43	212000	9.694	ppbv	100
35) Carbon Tetrachloride	3.768	117	299447	9.536	ppbv	100
36) Benzene	3.661	78	339567	10.185	ppbv	100
37) 1,2-Dichloroethane	3.224	62	196002	9.622	ppbv	100
38) Trichloroethene	4.554	130	151528	9.959	ppbv	100
39) 1,2-Dichloropropane	4.321	63	115351	9.858	ppbv	100
40) 1,4-Dioxane	4.587	88	57112	10.849	ppbv #	98
41) Tetrahydrofuran	3.056	42	115659	10.849	ppbv	100
42) Bromodichloromethane	4.496	83	291398	10.141	ppbv	100
43) Methyl Methacrylate	4.888	69	127722	11.312	ppbv	100
44) 2,2,4-Trimethylpentane	4.645	57	536753	10.532	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	163637	11.360	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042546.D
 Acq On : 20 May 2025 09:12
 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 05/21/2025
 Supervised By : Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:24:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	196277	11.227	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	137930	9.839	ppbv	100
48) Dibromochloromethane	7.393	129	252105	10.392	ppbv	100
49) Bromoform	9.490	173	218558	10.556	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	289347	11.049	ppbv	100
51) 2-Hexanone	7.441	43	228279	11.869	ppbv	100
52) Tetrachloroethene	8.231	164	128749	9.903	ppbv	100
53) Toluene	6.943	91	393948	11.054	ppbv	100
54) 1,2-Dibromoethane	7.662	107	214451	10.520	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	191773	9.788	ppbv	100
57) Chlorobenzene	8.927	112	318364	9.725	ppbv	100
58) Ethyl Benzene	9.361	91	547642	11.383	ppbv	100
59) m/p-Xylene	9.558	91	897860m	21.881	ppbv	
60) o-Xylene	9.969	91	450867	11.099	ppbv	100
61) Styrene	9.875	104	193332	12.413	ppbv	100
62) Isopropylbenzene	10.545	105	669863	10.760	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	269334	9.958	ppbv	100
64) n-propylbenzene	10.995	120	171709	11.072	ppbv	100
65) tert-Butylbenzene	11.536	119	607642	10.851	ppbv	100
66) Benzyl Chloride	11.620	91	80291	11.460	ppbv	100
67) sec-Butylbenzene	11.772	105	825238	10.440	ppbv	100
69) p-Isopropyltoluene	11.931	119	719762	11.026	ppbv	100
70) n-Butylbenzene	12.287	91	696250	11.288	ppbv	100
71) 2-Chlorotoluene	10.905	91	496987	11.092	ppbv	100
72) 4-Ethyltoluene	11.131	105	561747	11.179	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	472644	10.873	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	532134	10.152	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	321956	9.952	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	321061	10.219	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	305857	9.596	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	231291	8.785	ppbv	100
79) Naphthalene	13.517	128	490596	12.504	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	279853	13.834	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	264181	11.197	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042547.D
 Acq On : 20 May 2025 09:46
 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 05/21/2025
 Supervised By : Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:25:02 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	121370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	416026	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	368613	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 290806 9.857 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	46846	2.064	ppbv	97
3) Chlorodifluoromethane	1.479	51	38828	2.077	ppbv	100
4) Chloromethane	1.538	50	15072	2.061	ppbv	100
5) Vinyl Chloride	1.583	62	15693	1.947	ppbv	98
6) Bromomethane	1.674	94	9545	2.058	ppbv	97
7) Chloroethane	1.709	64	6704	2.068	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	40280	2.095	ppbv	98
9) Propene	1.489	41	13677	2.104	ppbv	99
10) Heptane	4.998	43	36257	2.118	ppbv	99
11) Trichlorofluoromethane	1.884	101	49043	2.070	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	39934	2.090	ppbv	100
13) Ethanol	1.725	45	1812	1.923	ppbv	96
14) Bromoethene	1.787	108	14842	2.057	ppbv	96
15) Acetone	1.842	43	37081	2.192	ppbv	99
16) 1,3-Butadiene	1.612	39	14253	2.076	ppbv	90
17) tert-Butyl alcohol	2.046	59	39580	2.025	ppbv	99
18) 1,1-Dichloroethene	2.039	96	17753	2.056	ppbv	91
19) Isopropyl Alcohol	1.891	45	19357	2.013	ppbv #	77
20) Methylene Chloride	2.069	84	16564	2.023	ppbv	94
21) Allyl Chloride	2.104	41	22331	2.061	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	19221	2.006	ppbv	94
23) Vinyl Acetate	2.470	43	38993	1.986	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	34313	2.089	ppbv	100
25) Ethyl Acetate	2.845	43	68190	2.086	ppbv	98
26) Hexane	2.836	57	30904	2.091	ppbv	96
27) Carbon Disulfide	2.156	76	44724	2.089	ppbv #	90
28) Methyl tert-Butyl Ether	2.447	73	20955	2.104	ppbv	100
29) Chloroform	2.855	83	57738	2.065	ppbv	97
30) Cyclohexane	3.871	84	27044	2.115	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	33559	2.065	ppbv	96
32) 1,1,1-Trichloroethane	3.379	97	57041	1.997	ppbv	99
34) 2-Butanone	2.567	43	45382	2.055	ppbv	98
35) Carbon Tetrachloride	3.774	117	61000	1.924	ppbv	98
36) Benzene	3.671	78	68454	2.033	ppbv	97
37) 1,2-Dichloroethane	3.227	62	41704	2.027	ppbv	99
38) Trichloroethene	4.564	130	31295	2.037	ppbv	97
39) 1,2-Dichloropropane	4.328	63	24417	2.066	ppbv	98
40) 1,4-Dioxane	4.606	88	10273	1.932	ppbv #	75
41) Tetrahydrofuran	3.069	42	22003	2.044	ppbv	99
42) Bromodichloromethane	4.506	83	59264	2.042	ppbv	99
43) Methyl Methacrylate	4.901	69	23295	2.043	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	108048	2.099	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	29249	2.011	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042547.D
 Acq On : 20 May 2025 09:46
 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 05/21/2025
 Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:25:02 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	35346	2.002	ppbv	96
47) 1,1,2-Trichloroethane	6.600	97	29298	2.070	ppbv	91
48) Dibromochloromethane	7.403	129	49656	2.027	ppbv	100
49) Bromoform	9.493	173	43149	2.064	ppbv	98
50) 4-Methyl-2-Pentanone	5.778	43	53338	2.017	ppbv	98
51) 2-Hexanone	7.454	43	39354	2.026	ppbv #	99
52) Tetrachloroethene	8.241	164	27225	2.074	ppbv	91
53) Toluene	6.953	91	73097	2.031	ppbv	98
54) 1,2-Dibromoethane	7.668	107	43358	2.106	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	40539	2.063	ppbv	97
57) Chlorobenzene	8.933	112	68014	2.071	ppbv	97
58) Ethyl Benzene	9.367	91	100602	2.085	ppbv	99
59) m/p-Xylene	9.561	91	177328m	4.308	ppbv	
60) o-Xylene	9.976	91	87270	2.142	ppbv	100
61) Styrene	9.882	104	31019	1.986	ppbv	98
62) Isopropylbenzene	10.552	105	130474	2.089	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	55662	2.052	ppbv	100
64) n-propylbenzene	10.998	120	33337	2.143	ppbv	97
65) tert-Butylbenzene	11.539	119	121817	2.169	ppbv	100
66) Benzyl Chloride	11.623	91	13145	1.871	ppbv	100
67) sec-Butylbenzene	11.775	105	170810	2.154	ppbv	100
69) p-Isopropyltoluene	11.934	119	144311	2.204	ppbv	100
70) n-Butylbenzene	12.290	91	138470	2.238	ppbv	98
71) 2-Chlorotoluene	10.911	91	93049	2.070	ppbv	100
72) 4-Ethyltoluene	11.134	105	106770	2.118	ppbv	98
73) 1,3,5-Trimethylbenzene	11.212	105	93446	2.143	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	116976	2.225	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	67880	2.092	ppbv	100
76) 1,4-Dichlorobenzene	11.681	146	65510	2.079	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	67229	2.103	ppbv	98
78) Hexachloro-1,3-Butadiene	13.889	225	58483	2.215	ppbv	98
79) Naphthalene	13.523	128	102435	2.603	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	45912	2.263	ppbv	99
81) 1,2,4-Trichlorobenzene	13.449	180	54581	2.306	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042548.D
 Acq On : 20 May 2025 10:18
 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 05/21/2025
 Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:25:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122164	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	408860	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	358392	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 287740 10.032 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	23330	1.021	ppbv	99
3) Chlorodifluoromethane	1.476	51	19073	1.014	ppbv	98
4) Chloromethane	1.535	50	7639	1.038	ppbv	97
5) Vinyl Chloride	1.580	62	7935	0.978	ppbv	99
6) Bromomethane	1.671	94	4924	1.055	ppbv	98
7) Chloroethane	1.706	64	3362	1.030	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	19956	1.031	ppbv	99
9) Propene	1.486	41	6614	1.011	ppbv	95
10) Heptane	4.991	43	16310m	0.946	ppbv	
11) Trichlorofluoromethane	1.881	101	24238	1.016	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	19467	1.012	ppbv	99
13) Ethanol	1.722	45	1215	1.281	ppbv	97
14) Bromoethene	1.784	108	7770	1.070	ppbv	89
15) Acetone	1.839	43	19023	1.117	ppbv	96
16) 1,3-Butadiene	1.609	39	7019	1.016	ppbv	88
17) tert-Butyl alcohol	2.046	59	20004	1.017	ppbv	100
18) 1,1-Dichloroethene	2.036	96	8987	1.034	ppbv	99
19) Isopropyl Alcohol	1.887	45	9785	1.011	ppbv #	71
20) Methylene Chloride	2.062	84	8645	1.049	ppbv	99
21) Allyl Chloride	2.098	41	10945	1.004	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	9930	1.029	ppbv	94
23) Vinyl Acetate	2.464	43	19418	0.983	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	16603	1.004	ppbv	97
25) Ethyl Acetate	2.842	43	32005	0.973	ppbv	98
26) Hexane	2.829	57	14060	0.945	ppbv	93
27) Carbon Disulfide	2.153	76	21898	1.016	ppbv #	77
28) Methyl tert-Butyl Ether	2.444	73	10164	1.014	ppbv	99
29) Chloroform	2.852	83	28469	1.012	ppbv	98
30) Cyclohexane	3.859	84	11957m	0.929	ppbv	
31) cis-1,2-Dichloroethene	2.723	61	15923	0.973	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	27981	0.973	ppbv	98
34) 2-Butanone	2.561	43	22303	1.028	ppbv	97
35) Carbon Tetrachloride	3.768	117	29802	0.956	ppbv	99
36) Benzene	3.664	78	33246	1.005	ppbv	98
37) 1,2-Dichloroethane	3.221	62	19984	0.988	ppbv	100
38) Trichloroethene	4.554	130	14572	0.965	ppbv	95
39) 1,2-Dichloropropane	4.325	63	11688m	1.006	ppbv	
40) 1,4-Dioxane	4.606	88	4848m	0.928	ppbv	
41) Tetrahydrofuran	3.062	42	10122	0.957	ppbv	98
42) Bromodichloromethane	4.493	83	27880	0.978	ppbv	96
43) Methyl Methacrylate	4.891	69	10147m	0.906	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	48881m	0.966	ppbv	
45) t-1,3-Dichloropropene	6.425	75	12676m	0.887	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042548.D
 Acq On : 20 May 2025 10:18
 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 05/21/2025
 Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:25:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	15935m	0.918	ppbv	
47) 1,1,2-Trichloroethane	6.594	97	14141	1.016	ppbv	95
48) Dibromochloromethane	7.396	129	22830	0.948	ppbv	95
49) Bromoform	9.490	173	19689	0.958	ppbv	99
50) 4-Methyl-2-Pentanone	5.775	43	24707m	0.951	ppbv	
51) 2-Hexanone	7.451	43	16526m	0.866	ppbv	
52) Tetrachloroethene	8.231	164	12767	0.989	ppbv	97
53) Toluene	6.943	91	32491	0.919	ppbv	97
54) 1,2-Dibromoethane	7.658	107	19874m	0.982	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.930	131	19084	0.999	ppbv	93
57) Chlorobenzene	8.927	112	31814	0.997	ppbv	96
58) Ethyl Benzene	9.361	91	41399	0.882	ppbv	97
59) m/p-Xylene	9.558	91	75037m	1.875	ppbv	
60) o-Xylene	9.969	91	36525	0.922	ppbv	100
61) Styrene	9.875	104	11998m	0.790	ppbv	
62) Isopropylbenzene	10.545	105	57318	0.944	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	26731	1.013	ppbv	99
64) n-propylbenzene	10.995	120	13960	0.923	ppbv	92
65) tert-Butylbenzene	11.536	119	51897	0.950	ppbv	97
66) Benzyl Chloride	11.620	91	5931	0.868	ppbv	97
67) sec-Butylbenzene	11.772	105	75362	0.978	ppbv	99
69) p-Isopropyltoluene	11.931	119	59939	0.941	ppbv	98
70) n-Butylbenzene	12.287	91	55515	0.923	ppbv	95
71) 2-Chlorotoluene	10.908	91	40222	0.920	ppbv	100
72) 4-Ethyltoluene	11.131	105	45141	0.921	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.209	105	39627	0.935	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	51744	1.012	ppbv	91
75) 1,3-Dichlorobenzene	11.610	146	31973	1.013	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	29654	0.968	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	31444	1.012	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	26642	1.038	ppbv	99
79) Naphthalene	13.517	128	35563	0.929	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	10324	0.523	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	20710	0.900	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042549.D
 Acq On : 20 May 2025 10:50
 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 05/21/2025
 Supervised By : Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:26:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	117316	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398840	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347382	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 278604 10.021 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11933	0.544	ppbv	98
3) Chlorodifluoromethane	1.476	51	9650	0.534	ppbv	98
4) Chloromethane	1.534	50	3786	0.536	ppbv	99
5) Vinyl Chloride	1.583	62	4119	0.529	ppbv #	88
6) Bromomethane	1.670	94	2298	0.513	ppbv	91
7) Chloroethane	1.706	64	1686	0.538	ppbv #	72
8) Dichlorotetrafluoroethane	1.557	85	9669	0.520	ppbv	99
9) Propene	1.486	41	3051	0.486	ppbv	86
10) Heptane	4.991	43	7166	0.433	ppbv	98
11) Trichlorofluoromethane	1.881	101	12411	0.542	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.143	101	9707	0.526	ppbv	96
13) Ethanol	1.725	45	576	0.633	ppbv #	37
14) Bromoethene	1.784	108	3556	0.510	ppbv #	94
15) Acetone	1.839	43	9858	0.603	ppbv	93
16) 1,3-Butadiene	1.612	39	3704	0.558	ppbv	89
17) tert-Butyl alcohol	2.046	59	10041	0.531	ppbv #	94
18) 1,1-Dichloroethene	2.039	96	4428m	0.531	ppbv	
19) Isopropyl Alcohol	1.890	45	5148	0.554	ppbv #	37
20) Methylene Chloride	2.065	84	5037	0.636	ppbv	93
21) Allyl Chloride	2.098	41	5408	0.516	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	4858	0.524	ppbv	85
23) Vinyl Acetate	2.467	43	8843	0.466	ppbv #	90
24) 1,1-Dichloroethane	2.412	63	8281	0.522	ppbv	96
25) Ethyl Acetate	2.842	43	15167	0.480	ppbv	98
26) Hexane	2.829	57	6591	0.461	ppbv	92
27) Carbon Disulfide	2.156	76	9926	0.480	ppbv #	39
28) Methyl tert-Butyl Ether	2.447	73	4938	0.513	ppbv	96
29) Chloroform	2.852	83	14227	0.527	ppbv	99
30) Cyclohexane	3.865	84	5242	0.424	ppbv	93
31) cis-1,2-Dichloroethene	2.726	61	7923	0.504	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	13575	0.492	ppbv	98
34) 2-Butanone	2.564	43	10625	0.502	ppbv	97
35) Carbon Tetrachloride	3.771	117	14866	0.489	ppbv	97
36) Benzene	3.664	78	15613	0.484	ppbv	98
37) 1,2-Dichloroethane	3.224	62	10538	0.534	ppbv	100
38) Trichloroethene	4.557	130	7058	0.479	ppbv	98
39) 1,2-Dichloropropane	4.324	63	5653	0.499	ppbv	89
40) 1,4-Dioxane	4.616	88	2475m	0.486	ppbv	
41) Tetrahydrofuran	3.065	42	4400	0.426	ppbv	95
42) Bromodichloromethane	4.499	83	13457	0.484	ppbv #	97
43) Methyl Methacrylate	4.897	69	4553m	0.417	ppbv	
44) 2,2,4-Trimethylpentane	4.651	57	22539	0.457	ppbv	97
45) t-1,3-Dichloropropene	6.428	75	5959m	0.427	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042549.D
 Acq On : 20 May 2025 10:50
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/21/2025
 Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:26:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7327m	0.433	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	6750m	0.497	ppbv	
48) Dibromochloromethane	7.402	129	11385	0.485	ppbv	98
49) Bromoform	9.490	173	9012	0.450	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	10889m	0.430	ppbv	
51) 2-Hexanone	7.457	43	7122m	0.382	ppbv	
52) Tetrachloroethene	8.231	164	6006	0.477	ppbv	93
53) Toluene	6.940	91	14836m	0.430	ppbv	
54) 1,2-Dibromoethane	7.658	107	9474	0.480	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.933	131	9373	0.506	ppbv #	1
57) Chlorobenzene	8.930	112	15816	0.511	ppbv #	95
58) Ethyl Benzene	9.361	91	18066	0.397	ppbv	99
59) m/p-Xylene	9.555	91	30506m	0.786	ppbv	
60) o-Xylene	9.969	91	14836m	0.386	ppbv	
61) Styrene	9.879	104	5227	0.355	ppbv	96
62) Isopropylbenzene	10.545	105	24889	0.423	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	12697	0.497	ppbv	99
64) n-propylbenzene	10.992	120	5620	0.383	ppbv	92
65) tert-Butylbenzene	11.536	119	20436	0.386	ppbv	98
66) Benzyl Chloride	11.623	91	2838	0.429	ppbv #	97
67) sec-Butylbenzene	11.772	105	31370	0.420	ppbv	99
69) p-Isopropyltoluene	11.934	119	22462	0.364	ppbv	97
70) n-Butylbenzene	12.287	91	19614	0.336	ppbv	98
71) 2-Chlorotoluene	10.908	91	16834	0.397	ppbv	99
72) 4-Ethyltoluene	11.131	105	17908	0.377	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	16084	0.391	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	20184	0.407	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	14117	0.462	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	13548	0.456	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	14801	0.491	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	12950	0.520	ppbv	96
79) Naphthalene	13.516	128	11230	0.303	ppbv	100
80) Naphthalene,2-methyl-	14.468	142	3696	0.193	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.445	180	7188	0.322	ppbv	96

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

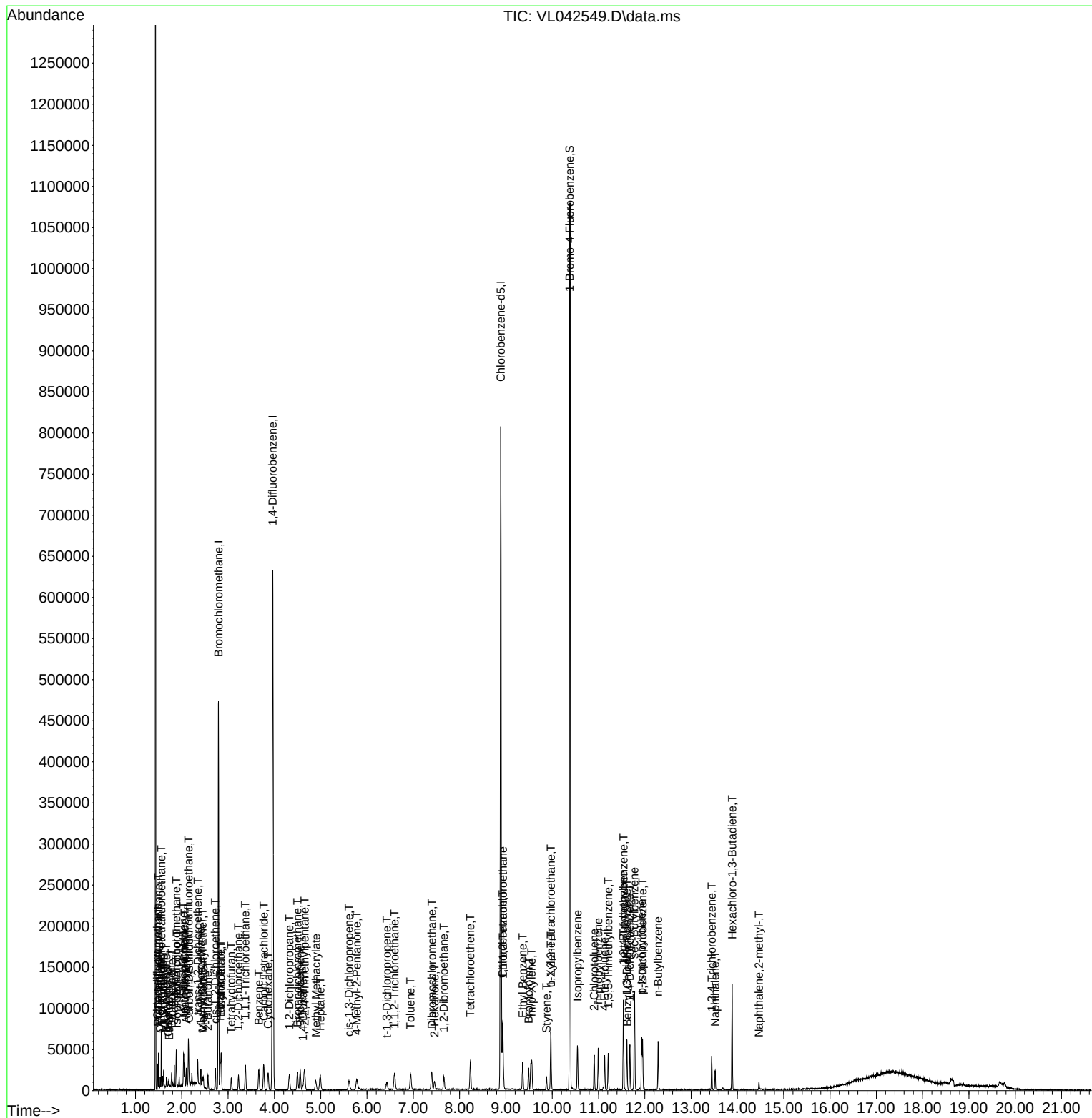
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
Data File : VL042549.D
Acq On : 20 May 2025 10:50
Operator : SY/MD
Sample : VSTDIC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/21/2025
Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:26:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue May 20 23:22:25 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042551.D
 Acq On : 20 May 2025 11:54
 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 05/21/2025
 Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:28:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue May 20 23:22:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116301	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	369679	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	322658	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	251724	9.748	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	262	0.034	ppbv #	76
32) 1,1,1-Trichloroethane	3.376	97	926m	0.034	ppbv	
35) Carbon Tetrachloride	3.777	117	1055m	0.037	ppbv	
38) Trichloroethene	4.557	130	475m	0.035	ppbv	
52) Tetrachloroethene	8.231	164	355m	0.030	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	672m	0.028	ppbv	

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

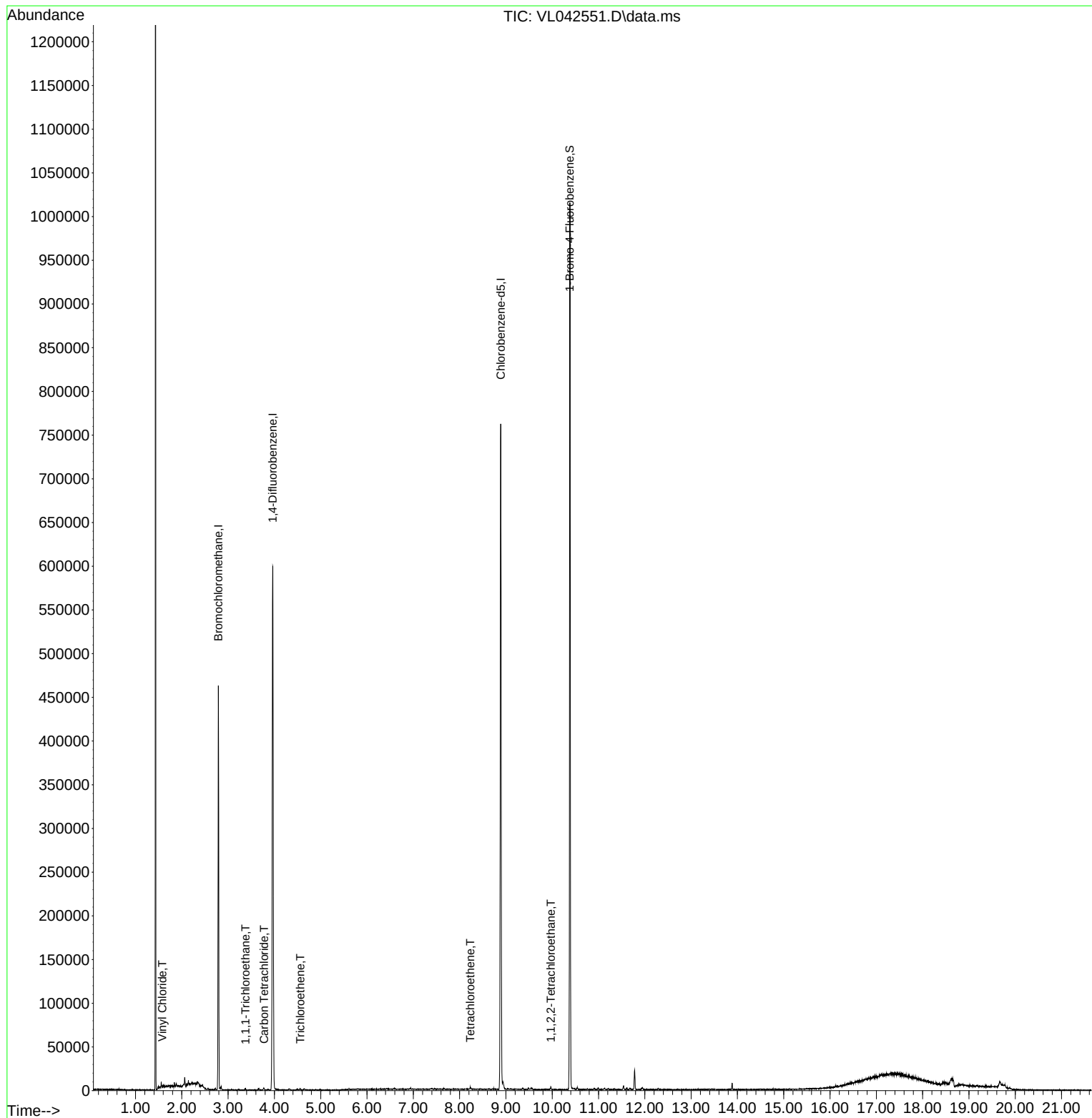
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
Data File : VL042551.D
Acq On : 20 May 2025 11:54
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/21/2025
Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:28:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue May 20 23:22:25 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042552.D
 Acq On : 20 May 2025 13:28
 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 05/21/2025
 Supervised By : Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:29:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	119762	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398318	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	350622	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 293707 10.467 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	309546	13.821	ppbv	100
3) Chlorodifluoromethane	1.476	51	256269	13.891	ppbv	99
4) Chloromethane	1.534	50	99758	13.826	ppbv	97
5) Vinyl Chloride	1.583	62	107777	13.549	ppbv	98
6) Bromomethane	1.670	94	63936	13.971	ppbv	99
7) Chloroethane	1.706	64	44036	13.767	ppbv	96
8) Dichlorotetrafluoroethane	1.557	85	264262	13.929	ppbv	99
9) Propene	1.486	41	93521	14.583	ppbv	98
10) Heptane	4.988	43	267463	15.831	ppbv	98
11) Trichlorofluoromethane	1.881	101	324485	13.876	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	265579	14.089	ppbv	99
13) Ethanol	1.722	45	9983	10.739	ppbv	99
14) Bromoethene	1.784	108	100643	14.132	ppbv	97
15) Acetone	1.835	43	194590	11.660	ppbv	100
16) 1,3-Butadiene	1.609	39	91991	13.577	ppbv	99
17) tert-Butyl alcohol	2.043	59	264159	13.696	ppbv	99
18) 1,1-Dichloroethene	2.036	96	118442	13.904	ppbv	96
19) Isopropyl Alcohol	1.887	45	129146	13.608	ppbv	98
20) Methylene Chloride	2.065	84	98942	12.244	ppbv	96
21) Allyl Chloride	2.098	41	153457	14.355	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	133838	14.154	ppbv	92
23) Vinyl Acetate	2.467	43	286064	14.765	ppbv	99
24) 1,1-Dichloroethane	2.412	63	229874	14.182	ppbv	99
25) Ethyl Acetate	2.839	43	478689	14.837	ppbv	100
26) Hexane	2.829	57	225840	15.483	ppbv	97
27) Carbon Disulfide	2.153	76	309978	14.671	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	139514	14.194	ppbv	99
29) Chloroform	2.852	83	388270	14.075	ppbv	99
30) Cyclohexane	3.862	84	201208	15.945	ppbv	99
31) cis-1,2-Dichloroethene	2.725	61	233868	14.582	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	410281	14.554	ppbv	99
34) 2-Butanone	2.560	43	308266	14.579	ppbv	98
35) Carbon Tetrachloride	3.768	117	438834	14.454	ppbv	99
36) Benzene	3.661	78	479980	14.890	ppbv	97
37) 1,2-Dichloroethane	3.224	62	285683	14.505	ppbv	99
38) Trichloroethene	4.557	130	216443	14.713	ppbv	96
39) 1,2-Dichloropropane	4.324	63	165746	14.650	ppbv	97
40) 1,4-Dioxane	4.587	88	77951	15.315	ppbv #	97
41) Tetrahydrofuran	3.056	42	167583	16.258	ppbv	99
42) Bromodichloromethane	4.496	83	422662	15.213	ppbv	98
43) Methyl Methacrylate	4.888	69	183189	16.781	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	764008	15.505	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	235366	16.900	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042552.D
 Acq On : 20 May 2025 13:28
 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 05/21/2025
 Supervised By : Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:29:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	281873	16.676	ppbv	97
47) 1,1,2-Trichloroethane	6.593	97	197212	14.551	ppbv	97
48) Dibromochloromethane	7.396	129	362289	15.445	ppbv	100
49) Bromoform	9.490	173	316905	15.830	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	412824	16.305	ppbv	99
51) 2-Hexanone	7.444	43	334784	18.003	ppbv	99
52) Tetrachloroethene	8.234	164	184921	14.711	ppbv	97
53) Toluene	6.943	91	568692	16.505	ppbv	99
54) 1,2-Dibromoethane	7.661	107	305844	15.517	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	274477	14.683	ppbv	99
57) Chlorobenzene	8.930	112	455831	14.595	ppbv	100
58) Ethyl Benzene	9.364	91	786590	17.137	ppbv	99
59) m/p-Xylene	9.558	91	1304200m	33.312	ppbv	
60) o-Xylene	9.969	91	658622	16.994	ppbv	99
61) Styrene	9.878	104	283617	19.086	ppbv	98
62) Isopropylbenzene	10.545	105	970711	16.342	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	395110	15.311	ppbv	99
64) n-propylbenzene	10.995	120	251118	16.972	ppbv	98
65) tert-Butylbenzene	11.539	119	888078	16.622	ppbv	99
66) Benzyl Chloride	11.620	91	119686	17.905	ppbv	100
67) sec-Butylbenzene	11.772	105	1200845	15.923	ppbv	99
69) p-Isopropyltoluene	11.930	119	1051945	16.890	ppbv	99
70) n-Butylbenzene	12.287	91	1020679	17.345	ppbv	99
71) 2-Chlorotoluene	10.908	91	731158	17.103	ppbv	99
72) 4-Ethyltoluene	11.131	105	825454	17.217	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	698986	16.853	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	784348	15.683	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	473288	15.334	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	475904	15.877	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	453934	14.926	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	352631	14.038	ppbv	100
79) Naphthalene	13.516	128	738639	19.731	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	456676	23.660	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	399239	17.736	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042553.D
 Acq On : 20 May 2025 14:01
 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 05/21/2025
 Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:30:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Tue May 20 23:22:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	117269	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	388785	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	334978	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	261147	9.741	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.583	62	818	0.105	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	2659	0.096	ppbv	97
35) Carbon Tetrachloride	3.771	117	2846m	0.096	ppbv	
38) Trichloroethene	4.557	130	1324m	0.092	ppbv	
52) Tetrachloroethene	8.238	164	1269m	0.103	ppbv	
54) 1,2-Dibromoethane	7.671	107	1788m	0.093	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	2576m	0.104	ppbv	
79) Naphthalene	13.520	128	2161m	0.060	ppbv	

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

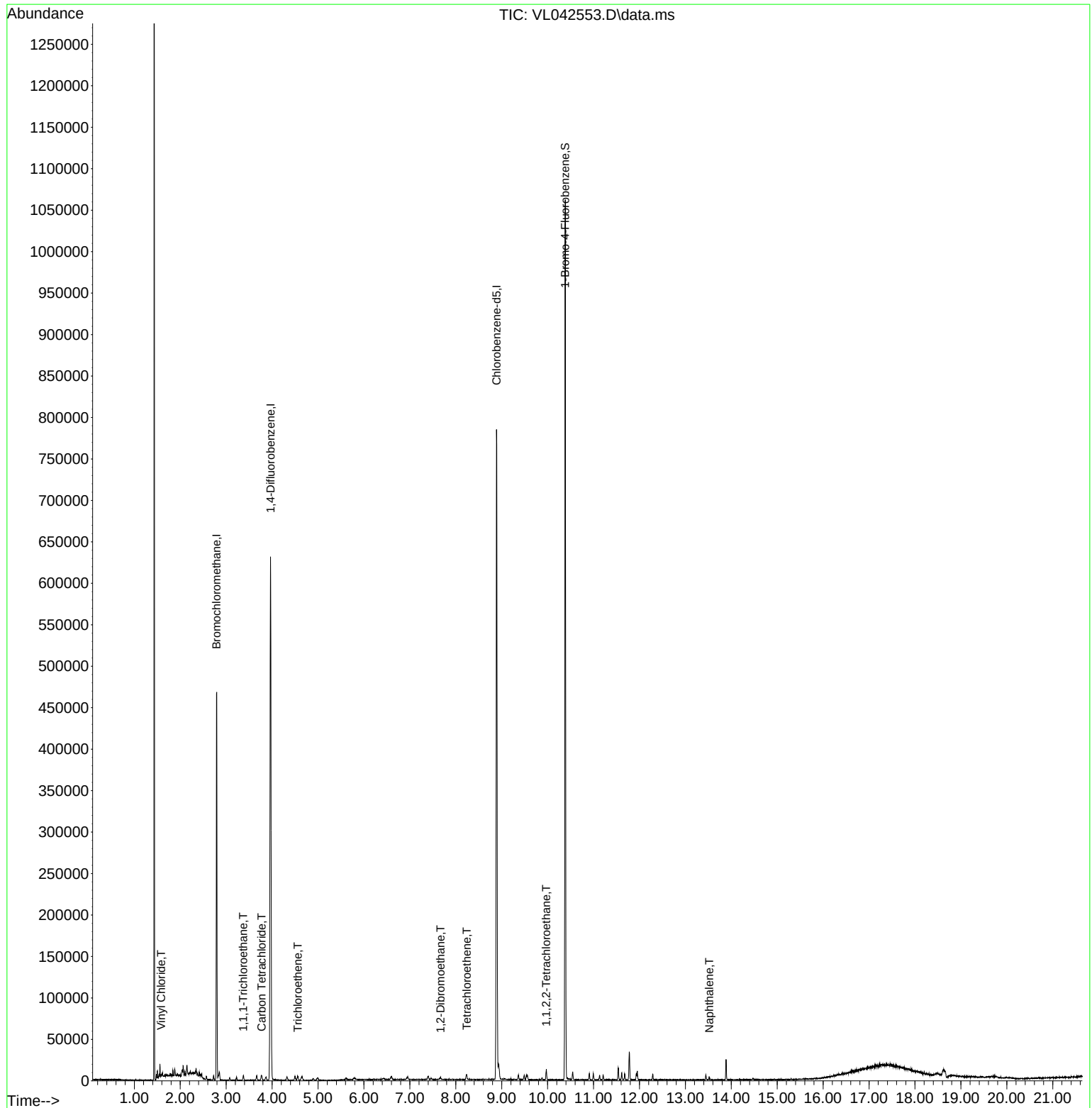
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
Data File : VL042553.D
Acq On : 20 May 2025 14:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/21/2025
Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:30:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue May 20 23:22:25 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
 Data File : VL042556.D
 Acq On : 21 May 2025 08:38
 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 05/22/2025
 Supervised By :Mahesh Dadoda 05/22/2025

Quant Time: May 21 22:52:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Wed May 21 00:21:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116311	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	380372	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	338510	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 277859 10.256 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	206034	9.472	ppbv	98
3) Chlorodifluoromethane	1.476	51	168033	9.376	ppbv	99
4) Chloromethane	1.535	50	64294	9.175	ppbv	96
5) Vinyl Chloride	1.580	62	68802	8.906	ppbv	99
6) Bromomethane	1.670	94	41919	9.432	ppbv	96
7) Chloroethane	1.706	64	28071	9.037	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	175625	9.532	ppbv	99
9) Propene	1.483	41	52727	8.466	ppbv	89
10) Heptane	4.988	43	166588	10.151	ppbv	99
11) Trichlorofluoromethane	1.878	101	205465	9.047	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	163277	8.919	ppbv	98
13) Ethanol	1.722	45	6700	7.421	ppbv	98
14) Bromoethene	1.784	108	64403	9.312	ppbv	99
15) Acetone	1.836	43	123208	7.602	ppbv	98
16) 1,3-Butadiene	1.609	39	59942	9.109	ppbv	97
17) tert-Butyl alcohol	2.043	59	167617	8.949	ppbv	99
18) 1,1-Dichloroethene	2.036	96	74008	8.945	ppbv	97
19) Isopropyl Alcohol	1.887	45	81700	8.864	ppbv	95
20) Methylene Chloride	2.065	84	61423	7.827	ppbv	97
21) Allyl Chloride	2.098	41	93833	9.038	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	83340	9.079	ppbv	96
23) Vinyl Acetate	2.467	43	148835	8.070	ppbv	99
24) 1,1-Dichloroethane	2.412	63	142736	9.067	ppbv	99
25) Ethyl Acetate	2.842	43	309863	9.889	ppbv	100
26) Hexane	2.829	57	140367	9.909	ppbv	97
27) Carbon Disulfide	2.153	76	190415	9.280	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	81938	8.584	ppbv	99
29) Chloroform	2.852	83	254110	9.485	ppbv	100
30) Cyclohexane	3.862	84	125876	10.271	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	146154	9.384	ppbv	94
32) 1,1,1-Trichloroethane	3.373	97	265521	9.698	ppbv	100
34) 2-Butanone	2.561	43	198272	9.819	ppbv	97
35) Carbon Tetrachloride	3.771	117	286575	9.854	ppbv	99
36) Benzene	3.664	78	305366	9.920	ppbv	99
37) 1,2-Dichloroethane	3.224	62	184739	9.822	ppbv	100
38) Trichloroethene	4.558	130	136329	9.704	ppbv	96
39) 1,2-Dichloropropane	4.321	63	106301	9.839	ppbv	97
40) 1,4-Dioxane	4.593	88	50173	10.382	ppbv #	98
41) Tetrahydrofuran	3.059	42	103326	10.497	ppbv	99
42) Bromodichloromethane	4.499	83	273206	10.309	ppbv	97
43) Methyl Methacrylate	4.891	69	112951	10.813	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	485551	10.285	ppbv	98
45) t-1,3-Dichloropropene	6.425	75	141183	10.596	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
 Data File : VL042556.D
 Acq On : 21 May 2025 08:38
 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 05/22/2025
 Supervised By : Mahesh Dadoda 05/22/2025

Quant Time: May 21 22:52:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Wed May 21 00:21:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	171752	10.599	ppbv	98
47) 1,1,2-Trichloroethane	6.593	97	128756	9.948	ppbv	97
48) Dibromochloromethane	7.396	129	233076	10.406	ppbv	99
49) Bromoform	9.490	173	201858	10.559	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	262963	10.854	ppbv	100
51) 2-Hexanone	7.445	43	210670	11.790	ppbv #	98
52) Tetrachloroethene	8.234	164	117979	9.828	ppbv	98
53) Toluene	6.943	91	348485	10.591	ppbv	100
54) 1,2-Dibromoethane	7.661	107	197880	10.493	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.933	131	181241	10.042	ppbv	99
57) Chlorobenzene	8.930	112	296074	9.819	ppbv	98
58) Ethyl Benzene	9.364	91	498152	11.241	ppbv	99
59) m/p-Xylene	9.558	91	844634m	22.321	ppbv	
60) o-Xylene	9.972	91	424136	11.316	ppbv	100
61) Styrene	9.879	104	168067	11.700	ppbv	98
62) Isopropylbenzene	10.545	105	615158	10.727	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	253867	10.136	ppbv	100
64) n-propylbenzene	10.995	120	161857	11.331	ppbv	99
65) tert-Butylbenzene	11.536	119	580766	11.259	ppbv	99
66) Benzyl Chloride	11.620	91	74168	11.492	ppbv	100
67) sec-Butylbenzene	11.772	105	793523	10.898	ppbv	100
69) p-Isopropyltoluene	11.931	119	685318	11.397	ppbv	100
70) n-Butylbenzene	12.287	91	665390	11.712	ppbv	100
71) 2-Chlorotoluene	10.908	91	457701	11.090	ppbv	99
72) 4-Ethyltoluene	11.131	105	527693	11.400	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	445574	11.128	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	514358	10.653	ppbv	95
75) 1,3-Dichlorobenzene	11.613	146	307235	10.310	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	304716	10.529	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	298213	10.157	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	225583	9.302	ppbv	99
79) Naphthalene	13.517	128	464772	12.846	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	255900	13.727	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	247688	11.397	ppbv	100

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

Manual Integrations

Quant Time: May 21 22:52:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed May 21 00:21:29 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
 Data File : VL042558.D
 Acq On : 21 May 2025 10:12
 Operator : SY/MD
 Sample : VL0521ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0521ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2025
 Supervised By :Mahesh Dadoda 05/22/2025

Quant Time: May 21 22:53:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Wed May 21 00:21:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	116321	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	377848	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	333400	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 281736 10.559 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	208299	9.576	ppbv	98
3) Chlorodifluoromethane	1.476	51	166978	9.316	ppbv	99
4) Chloromethane	1.534	50	64844	9.253	ppbv	99
5) Vinyl Chloride	1.583	62	70380	9.109	ppbv	100
6) Bromomethane	1.670	94	41995	9.448	ppbv	94
7) Chloroethane	1.706	64	29263	9.419	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	173808	9.433	ppbv	99
9) Propene	1.482	41	55735	8.948	ppbv	100
10) Heptane	4.988	43	166704	10.157	ppbv	99
11) Trichlorofluoromethane	1.881	101	204847	9.019	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	165114	9.018	ppbv	99
13) Ethanol	1.725	45	6675	7.393	ppbv	97
14) Bromoethene	1.784	108	64287	9.294	ppbv	97
15) Acetone	1.839	43	122417	7.552	ppbv	99
16) 1,3-Butadiene	1.612	39	59838	9.093	ppbv	97
17) tert-Butyl alcohol	2.042	59	162833	8.692	ppbv	100
18) 1,1-Dichloroethene	2.036	96	73897	8.931	ppbv	97
19) Isopropyl Alcohol	1.887	45	79558	8.631	ppbv #	35
20) Methylene Chloride	2.065	84	62225	7.928	ppbv	99
21) Allyl Chloride	2.097	41	93327	8.988	ppbv	99
22) trans-1,2-Dichloroethene	2.343	96	82974	9.038	ppbv	96
23) Vinyl Acetate	2.466	43	160397	8.696	ppbv	99
24) 1,1-Dichloroethane	2.411	63	144008	9.147	ppbv	99
25) Ethyl Acetate	2.842	43	307783	9.822	ppbv	100
26) Hexane	2.829	57	138375	9.767	ppbv	96
27) Carbon Disulfide	2.152	76	191355	9.325	ppbv	95
28) Methyl tert-Butyl Ether	2.444	73	81115	8.497	ppbv	99
29) Chloroform	2.855	83	255414	9.533	ppbv	99
30) Cyclohexane	3.865	84	124310	10.142	ppbv	98
31) cis-1,2-Dichloroethene	2.725	61	145782	9.359	ppbv	100
32) 1,1,1-Trichloroethane	3.376	97	264881	9.674	ppbv	99
34) 2-Butanone	2.564	43	193483	9.646	ppbv	98
35) Carbon Tetrachloride	3.771	117	289943	10.036	ppbv	99
36) Benzene	3.664	78	300694	9.834	ppbv	99
37) 1,2-Dichloroethane	3.224	62	186306	9.972	ppbv	99
38) Trichloroethene	4.557	130	134468	9.636	ppbv	94
39) 1,2-Dichloropropane	4.324	63	103756	9.668	ppbv	95
40) 1,4-Dioxane	4.596	88	47199	9.832	ppbv #	80
41) Tetrahydrofuran	3.062	42	102011	10.433	ppbv	99
42) Bromodichloromethane	4.499	83	270663	10.281	ppbv	97
43) Methyl Methacrylate	4.891	69	109007	10.505	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	486516	10.374	ppbv	98
45) t-1,3-Dichloropropene	6.428	75	137509	10.389	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
 Data File : VL042558.D
 Acq On : 21 May 2025 10:12
 Operator : SY/MD
 Sample : VL0521ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0521ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/22/2025
 Supervised By :Mahesh Dadoda 05/22/2025

Quant Time: May 21 22:53:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Wed May 21 00:21:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	164177	10.199	ppbv	99
47) 1,1,2-Trichloroethane	6.596	97	127525	9.919	ppbv	99
48) Dibromochloromethane	7.399	129	230923	10.378	ppbv	100
49) Bromoform	9.490	173	202892	10.684	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	261272	10.856	ppbv	100
51) 2-Hexanone	7.444	43	207178	11.672	ppbv #	97
52) Tetrachloroethene	8.234	164	116970	9.809	ppbv	98
53) Toluene	6.943	91	349032	10.679	ppbv	99
54) 1,2-Dibromoethane	7.661	107	194890	10.404	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	185173	10.418	ppbv	98
57) Chlorobenzene	8.930	112	298157	10.040	ppbv	99
58) Ethyl Benzene	9.364	91	496019	11.364	ppbv	97
59) m/p-Xylene	9.561	91	847195m	22.732	ppbv	
60) o-Xylene	9.972	91	423569	11.474	ppbv	99
61) Styrene	9.878	104	169581	11.986	ppbv	99
62) Isopropylbenzene	10.545	105	624942	11.065	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	256372	10.393	ppbv	99
64) n-propylbenzene	10.995	120	163942	11.652	ppbv	99
65) tert-Butylbenzene	11.539	119	584410	11.503	ppbv	99
66) Benzyl Chloride	11.620	91	68619	10.796	ppbv	100
67) sec-Butylbenzene	11.775	105	798171	11.130	ppbv	100
69) p-Isopropyltoluene	11.934	119	690311	11.656	ppbv	100
70) n-Butylbenzene	12.286	91	671916	12.008	ppbv	99
71) 2-Chlorotoluene	10.908	91	463109	11.393	ppbv	99
72) 4-Ethyltoluene	11.131	105	533569	11.704	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	454600	11.527	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	515907	10.849	ppbv #	89
75) 1,3-Dichlorobenzene	11.613	146	310950	10.595	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	308975	10.840	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	302402	10.457	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	230027	9.630	ppbv	99
79) Naphthalene	13.520	128	464800	13.044	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	248065	13.511	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	250439	11.700	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
 Data File : VL042562.D
 Acq On : 21 May 2025 12:33
 Operator : SY/MD
 Sample : QC051925 CAN 10158
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC051925 CAN 10158

Quant Time: May 21 22:54:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 21 00:21:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	104582	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	321263	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	276069	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	222792	10.083	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.800%

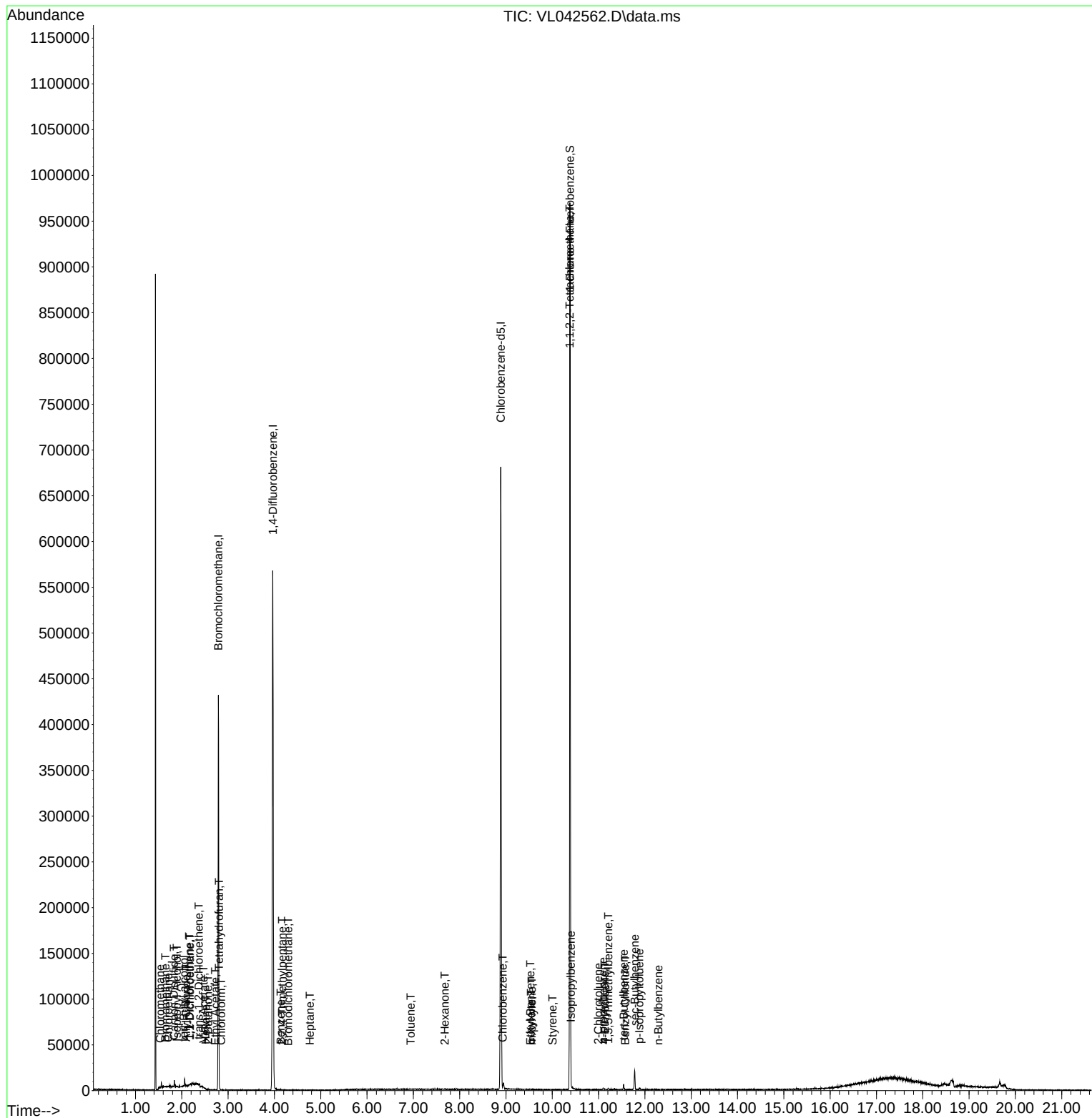
Target Compounds					Qvalue	
4) Chloromethane	1.531	50	97	0.015	ppbv #	41
6) Bromomethane	1.648	94	49	0.012	ppbv #	77
7) Chloroethane	1.709	64	26	0.009	ppbv #	44
10) Heptane	4.768	43	37	0.003	ppbv #	24
17) tert-Butyl alcohol	2.043	59	281	0.017	ppbv	96
18) 1,1-Dichloroethene	2.163	96	62	0.008	ppbv #	1
19) Isopropyl Alcohol	1.891	45	172	0.021	ppbv #	32
21) Allyl Chloride	2.091	41	72	0.008	ppbv #	1
22) trans-1,2-Dichloroethene	2.366	96	44	0.005	ppbv #	1
23) Vinyl Acetate	2.467	43	83	0.005	ppbv #	38
24) 1,1-Dichloroethane	2.176	63	38	0.003	ppbv #	86
25) Ethyl Acetate	2.726	43	25	0.001	ppbv #	1
26) Hexane	2.515	57	23	0.002	ppbv #	1
27) Carbon Disulfide	1.832	76	31	0.002	ppbv #	1
29) Chloroform	2.852	83	46	0.002	ppbv #	18
34) 2-Butanone	2.567	43	507	0.030	ppbv #	74
36) Benzene	4.137	78	14	0.001	ppbv #	56
41) Tetrahydrofuran	2.803	42	25	0.003	ppbv #	33
42) Bromodichloromethane	4.295	83	31	0.001	ppbv #	25
44) 2,2,4-Trimethylpentane	4.169	57	26	0.001	ppbv #	20
51) 2-Hexanone	7.678	43	21	0.001	ppbv #	27
53) Toluene	6.943	91	44	0.002	ppbv #	21
57) Chlorobenzene	8.930	112	24	0.001	ppbv #	25
58) Ethyl Benzene	9.526	91	97	0.003	ppbv #	44
59) m/p-Xylene	9.558	91	158	0.005	ppbv #	30
60) o-Xylene	9.542	91	222	0.007	ppbv	74
61) Styrene	10.005	104	26	0.002	ppbv #	29
62) Isopropylbenzene	10.403	105	23	0.000	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	10.377	83	110	0.005	ppbv #	25
64) n-propylbenzene	11.099	120	245	0.021	ppbv #	1
65) tert-Butylbenzene	11.542	119	219	0.005	ppbv #	41
66) Benzyl Chloride	11.575	91	21	0.004	ppbv #	65
67) sec-Butylbenzene	11.779	105	37	0.001	ppbv #	1
69) p-Isopropyltoluene	11.879	119	45	0.001	ppbv #	1
70) n-Butylbenzene	12.290	91	35	0.001	ppbv #	24
71) 2-Chlorotoluene	10.992	91	153	0.005	ppbv #	44
72) 4-Ethyltoluene	11.135	105	115	0.003	ppbv #	65
73) 1,3,5-Trimethylbenzene	11.209	105	495	0.015	ppbv #	70

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
Data File : VL042562.D
Acq On : 21 May 2025 12:33
Operator : SY/MD
Sample : QC051925 CAN 10158
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC051925 CAN 10158

Quant Time: May 21 22:54:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed May 21 00:21:29 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
 Data File : VL042563.D
 Acq On : 21 May 2025 13:40
 Operator : SY/MD
 Sample : QC051225 CAN 10401
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC051225 CAN 10401

Quant Time: May 21 22:55:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 21 00:21:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	106729	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	327503	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	278236	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	221132	9.930	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds					Qvalue	
4) Chloromethane	1.538	50	127	0.020	ppbv #	41
5) Vinyl Chloride	1.531	62	35	0.005	ppbv #	43
6) Bromomethane	1.651	94	42	0.010	ppbv #	3
7) Chloroethane	1.781	64	22	0.008	ppbv #	44
9) Propene	1.489	41	94	0.016	ppbv #	15
16) 1,3-Butadiene	1.616	39	38	0.006	ppbv #	11
17) tert-Butyl alcohol	2.049	59	392	0.023	ppbv	98
18) 1,1-Dichloroethene	2.069	96	24	0.003	ppbv #	1
21) Allyl Chloride	2.101	41	52	0.005	ppbv #	19
22) trans-1,2-Dichloroethene	2.266	96	28	0.003	ppbv #	1
23) Vinyl Acetate	2.470	43	162	0.010	ppbv #	1
24) 1,1-Dichloroethane	2.341	63	25	0.002	ppbv #	86
25) Ethyl Acetate	2.858	43	13	0.000	ppbv #	74
26) Hexane	2.480	57	25	0.002	ppbv #	1
27) Carbon Disulfide	2.415	76	22	0.001	ppbv #	1
29) Chloroform	2.855	83	37	0.002	ppbv #	18
31) cis-1,2-Dichloroethene	2.434	61	28	0.002	ppbv #	23
34) 2-Butanone	2.567	43	456	0.026	ppbv #	49
36) Benzene	3.325	78	27	0.001	ppbv #	56
41) Tetrahydrofuran	2.820	42	26	0.003	ppbv #	33
42) Bromodichloromethane	4.182	83	43	0.002	ppbv #	25
44) 2,2,4-Trimethylpentane	4.231	57	26	0.001	ppbv #	43
50) 4-Methyl-2-Pentanone	5.522	43	47	0.002	ppbv #	37
53) Toluene	6.950	91	49	0.002	ppbv #	21
57) Chlorobenzene	8.927	112	24	0.001	ppbv #	65
58) Ethyl Benzene	9.532	91	75	0.002	ppbv #	44
59) m/p-Xylene	9.558	91	69	0.002	ppbv #	1
60) o-Xylene	9.966	91	96	0.003	ppbv #	33
62) Isopropylbenzene	10.390	105	87	0.002	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	10.387	83	168	0.008	ppbv #	1
64) n-propylbenzene	11.096	120	189	0.016	ppbv #	1
65) tert-Butylbenzene	11.542	119	70	0.002	ppbv #	20
67) sec-Butylbenzene	11.782	105	103	0.002	ppbv #	1
69) p-Isopropyltoluene	11.928	119	33	0.001	ppbv #	48
70) n-Butylbenzene	11.889	91	50	0.001	ppbv #	32
71) 2-Chlorotoluene	10.992	91	109	0.003	ppbv #	44
72) 4-Ethyltoluene	11.135	105	174	0.005	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	716	0.022	ppbv #	76

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

Quant Time: May 21 22:55:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed May 21 00:21:29 2025
Response via : Initial Calibration

