

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL010725

Review By	MMDadoda	Review On	1/9/2025 1:12:38 PM
Supervise By		Supervise On	
SubDirectory	VL010725	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL010725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2570		
Initial Calibration Stds	AP2566,AP2567,AP2568		
CCC	AP2566		
Internal Standard/PEM	AP2570		
ICV/I.BLK	AP2564		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041836.D	07 Jan 2025 08:06	SY/MD	Ok
2	VSTDIC0.5	VL041837.D	07 Jan 2025 08:48	SY/MD	Not Ok
3	VSTDICCC010	VL041838.D	07 Jan 2025 09:18	SY/MD	Ok,M
4	VSTDIC002	VL041839.D	07 Jan 2025 09:51	SY/MD	Ok,M
5	VSTDIC001	VL041840.D	07 Jan 2025 10:21	SY/MD	Ok,M
6	VSTDIC0.5	VL041841.D	07 Jan 2025 10:52	SY/MD	Ok,M
7	VSTDIC0.1	VL041842.D	07 Jan 2025 11:22	SY/MD	Ok,M
8	VSTDIC0.03	VL041843.D	07 Jan 2025 11:52	SY/MD	Ok,M
9	VSTDIC015	VL041844.D	07 Jan 2025 12:25	SY/MD	Ok,M
10	VSTDICV010	VL041845.D	07 Jan 2025 14:10	SY/MD	Ok,M
11	VL0107ABL01	VL041846.D	07 Jan 2025 15:55	SY/MD	Ok
12	Q1031-02	VL041847.D	07 Jan 2025 16:59	SY/MD	Ok,M
13	Q1031-02DUP	VL041848.D	07 Jan 2025 17:33	SY/MD	Ok,M
14	Q1031-01	VL041849.D	07 Jan 2025 18:03	SY/MD	Not Ok
15	Q1031-01DL	VL041850.D	07 Jan 2025 18:34	SY/MD	Not Ok
16	Q1031-01	VL041851.D	07 Jan 2025 19:05	SY/MD	Ok,M
17	QC010225 CAN 10443	VL041852.D	07 Jan 2025 19:35	SY/MD	Not Ok
18	QC010225 CAN 10443	VL041853.D	07 Jan 2025 20:06	SY/MD	Ok
19	VL0107ABS01	VL041854.D	07 Jan 2025 20:36	SY/MD	Ok,M
20	VL0107ABS02	VL041855.D	07 Jan 2025 21:30	SY/MD	Not Ok
21	VIBLK	VL041856.D	07 Jan 2025 22:01	SY/MD	Ok

M : Manual Integration

Process Report

Order ID : Q1450

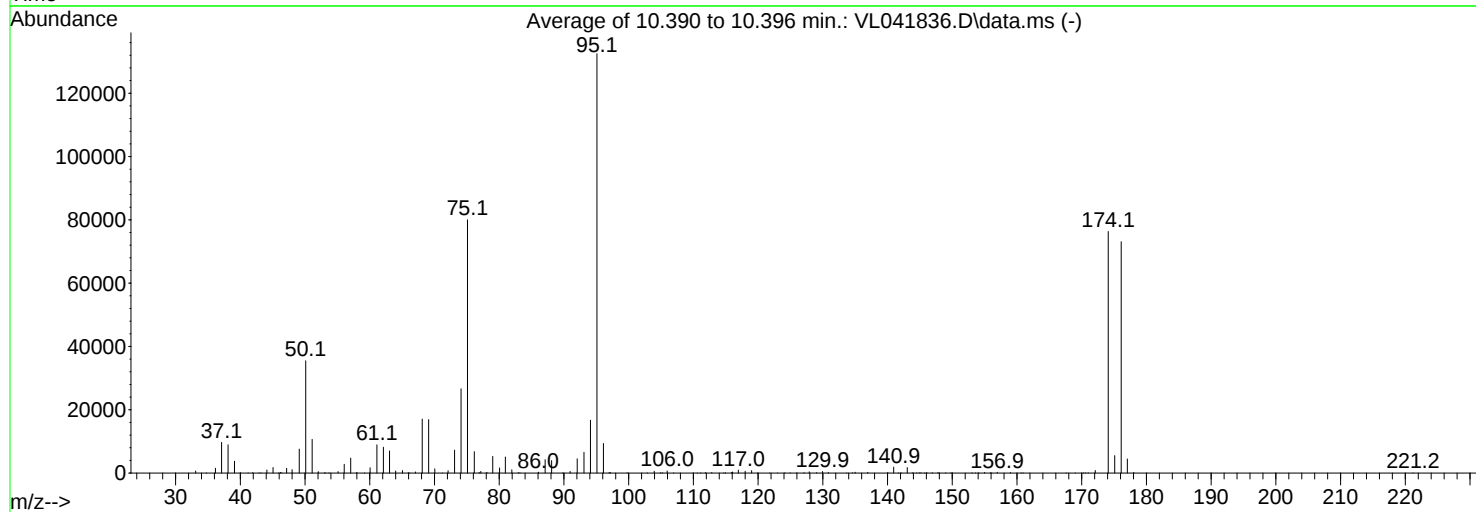
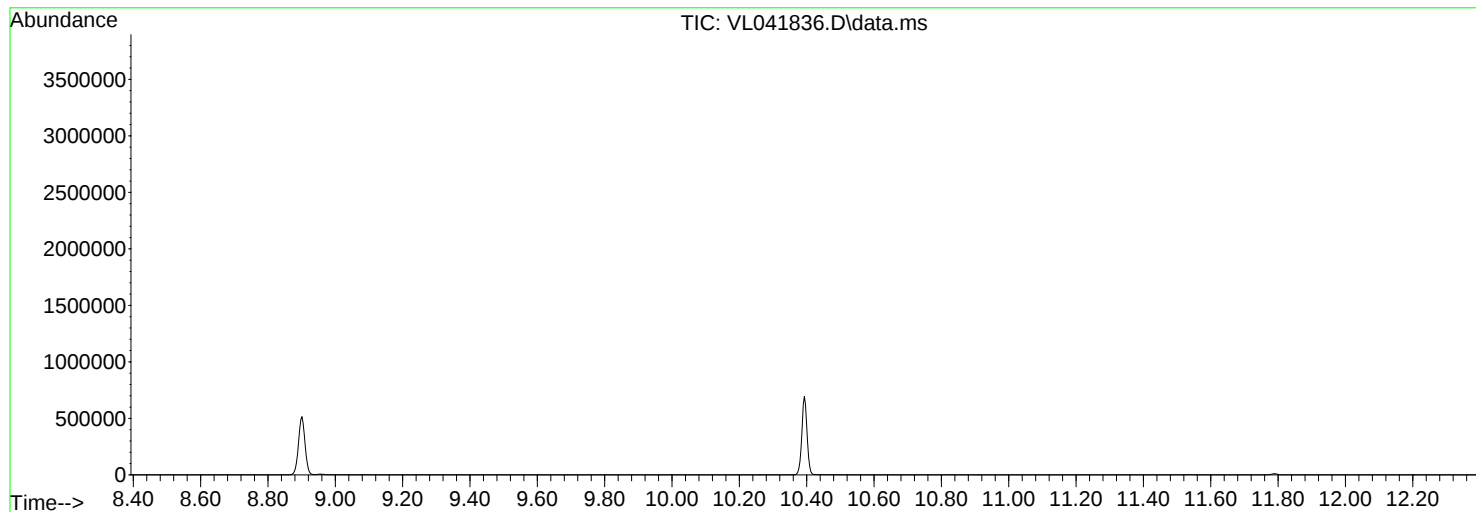
Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
02/27/2025	B2502036	Q1450-02	-4.7	10606	6 L	10226		C2501002	VL041876.D Seq :VL010925 TUNE : VL041857.D ICAL : VL041864.D CCAL : VL041859.D MB : VL041869.D
02/27/2025	B2502036	Q1450-01	-5.1	10445	6 L	10579		C2501001	VL041853.D Seq :VL010725 TUNE : VL041836.D ICAL : VL041843.D CCAL : VL041838.D MB : VL041846.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041836.D
Acq On : 07 Jan 2025 08:06
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\VL010725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Jan 08 03:26:12 2025



AutoFind: Scans 3183, 3184, 3185; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.8	35475	PASS
75	95	30	66	60.4	80027	PASS
95	95	100	100	100.0	132480	PASS
96	95	5	9	7.1	9366	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	57.6	76320	PASS
175	174	4	9	7.2	5523	PASS
176	174	93	101	95.8	73091	PASS
177	176	5	9	6.1	4466	PASS

Average of 10.390 to 10.396 min.: VL041836.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	650	44.10	978	53.00	75	63.05	7000
34.75	41	45.05	1757	53.20	63	64.00	665
36.15	1528	45.90	22	53.70	54	65.05	797
37.10	9699	46.20	204	55.10	476	65.95	128
38.10	8943	46.40	63	56.05	2780	66.20	47
39.10	3730	47.15	1514	57.05	4728	67.05	373
40.00	97	48.00	1099	58.00	215	68.10	17043
41.20	25	49.10	7584	59.20	38	69.10	16889
41.90	88	50.10	35475	60.05	1686	70.05	1350
42.90	86	51.10	10644	61.10	8934	71.20	28
43.20	24	52.05	463	62.10	8179	72.10	752

Average of 10.390 to 10.396 min.: VL041836.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
73.10	7232	82.95	157	96.10	9366	110.60	37
74.10	26627	83.20	86	97.00	230	111.15	73
75.10	80027	86.05	297	97.20	136	111.85	144
76.15	6787	87.10	4239	99.75	57	112.85	187
76.90	201	88.10	3966	102.90	43	114.70	42
77.15	541	89.80	23	103.95	599	114.95	130
78.10	233	90.95	542	104.95	132	115.90	216
79.00	5275	92.05	4523	105.20	90	116.05	350
80.05	1633	93.10	6550	105.95	691	116.95	943
80.95	5086	94.10	16713	106.95	57	118.00	594
81.95	1044	95.10	132480	110.00	19	119.00	783

Average of 10.390 to 10.396 min.: VL041836.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.90	26	133.70	21	144.90	98	153.60	41
121.80	18	134.60	84	145.15	117	154.10	73
123.00	19	135.00	283	145.70	34	155.00	235
124.15	63	136.95	243	146.05	179	155.90	101
124.95	74	140.05	139	146.90	112	156.10	50
126.00	66	140.95	1883	147.80	168	156.95	262
127.10	108	141.70	30	148.00	44	159.00	164
127.90	421	142.10	93	149.00	83	160.65	71
129.05	149	143.05	1759	149.80	63	160.95	46
129.95	505	143.90	98	150.00	63	167.60	43
130.85	190	144.50	42	153.05	81	169.00	46

Average of 10.390 to 10.396 min.: VL041836.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.25	76						
170.60	47						
171.00	92						
172.10	833						
174.10	76320						
175.10	5523						
176.10	73091						
177.05	4466						
178.05	171						
221.20	24						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041838.D
 Acq On : 07 Jan 2025 09:18
 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 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:19:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	97717	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	232315	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	198370	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 178169 10.487 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.900%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.502	85	144187	8.993 ppbv	100
3) Chlorodifluoromethane	1.479	51	136457	8.907 ppbv	100
4) Chloromethane	1.538	50	59602	9.040 ppbv	100
5) Vinyl Chloride	1.586	62	54824	8.244 ppbv	100
6) Bromomethane	1.674	94	25634	8.999 ppbv	100
7) Chloroethane	1.709	64	21958	8.578 ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	126162	9.120 ppbv	100
9) Propene	1.489	41	48251	9.047 ppbv	100
10) Heptane	5.004	43	148658	11.283 ppbv	100
11) Trichlorofluoromethane	1.884	101	146982	9.015 ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	110744	9.121 ppbv	100
13) Ethanol	1.729	45	3612m	5.891 ppbv	
14) Bromoethene	1.787	108	36921	9.288 ppbv	100
15) Acetone	1.842	43	132708	7.377 ppbv	100
16) 1,3-Butadiene	1.612	39	62332	8.836 ppbv	100
17) tert-Butyl alcohol	2.049	59	142263	9.126 ppbv	100
18) 1,1-Dichloroethene	2.043	96	46359	9.119 ppbv	100
19) Isopropyl Alcohol	1.894	45	67181	7.955 ppbv	100
20) Methylene Chloride	2.068	84	40886	7.950 ppbv	100
21) Allyl Chloride	2.104	41	88727	9.574 ppbv	100
22) trans-1,2-Dichloroethene	2.350	96	51671	9.094 ppbv	100
23) Vinyl Acetate	2.473	43	51668	8.955 ppbv	100
24) 1,1-Dichloroethane	2.418	63	113332	9.114 ppbv	100
25) Ethyl Acetate	2.845	43	301260	9.986 ppbv	100
26) Hexane	2.839	57	110574	10.560 ppbv	100
27) Carbon Disulfide	2.159	76	104642	10.530 ppbv	100
28) Methyl tert-Butyl Ether	2.450	73	73317	9.291 ppbv	100
29) Chloroform	2.861	83	173414	8.915 ppbv	100
30) Cyclohexane	3.875	84	87356	10.996 ppbv	100
31) cis-1,2-Dichloroethene	2.732	61	105358	9.776 ppbv	100
32) 1,1,1-Trichloroethane	3.383	97	164630	9.339 ppbv	100
34) 2-Butanone	2.567	43	170386	9.311 ppbv	100
35) Carbon Tetrachloride	3.781	117	171330	9.758 ppbv	100
36) Benzene	3.674	78	216013	9.733 ppbv	100
37) 1,2-Dichloroethane	3.230	62	138068	9.463 ppbv	100
38) Trichloroethene	4.570	130	81606	9.380 ppbv	100
39) 1,2-Dichloropropane	4.334	63	80487	9.375 ppbv	100
40) 1,4-Dioxane	4.606	88	34679	10.425 ppbv #	100
41) Tetrahydrofuran	3.069	42	91594	10.618 ppbv	100
42) Bromodichloromethane	4.512	83	172183	10.063 ppbv	100
43) Methyl Methacrylate	4.904	69	77566	11.130 ppbv	100
44) 2,2,4-Trimethylpentane	4.661	57	390617	10.683 ppbv	100
45) t-1,3-Dichloropropene	6.438	75	70965	10.430 ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041838.D
 Acq On : 07 Jan 2025 09:18
 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 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:19:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	97612	10.905	ppbv	100
47) 1,1,2-Trichloroethane	6.606	97	84906	9.351	ppbv	100
48) Dibromochloromethane	7.409	129	124570	10.778	ppbv	100
49) Bromoform	9.500	173	101730	10.982	ppbv	100
50) 4-Methyl-2-Pentanone	5.784	43	237056	11.212	ppbv	100
51) 2-Hexanone	7.457	43	190925	11.921	ppbv	100
52) Tetrachloroethene	8.244	164	67367	10.236	ppbv	100
53) Toluene	6.959	91	226694	11.464	ppbv	100
54) 1,2-Dibromoethane	7.674	107	110192	9.910	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	107276	9.488	ppbv	100
57) Chlorobenzene	8.940	112	193822	9.352	ppbv	100
58) Ethyl Benzene	9.370	91	325850	12.052	ppbv	100
59) m/p-Xylene	9.565	91	564970m	23.662	ppbv	
60) o-Xylene	9.979	91	281728	12.136	ppbv	100
61) Styrene	9.885	104	112526	12.495	ppbv	100
62) Isopropylbenzene	10.552	105	417672	11.452	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	188048	9.238	ppbv	100
64) n-propylbenzene	11.002	120	109323	11.684	ppbv	100
65) tert-Butylbenzene	11.545	119	375903	11.438	ppbv	100
66) Benzyl Chloride	11.630	91	28370	10.329	ppbv	100
67) sec-Butylbenzene	11.782	105	541663	11.295	ppbv	100
69) p-Isopropyltoluene	11.937	119	449331	11.935	ppbv	100
70) n-Butylbenzene	12.293	91	444870	11.762	ppbv	100
71) 2-Chlorotoluene	10.914	91	310040	11.712	ppbv	100
72) 4-Ethyltoluene	11.138	105	339692	12.100	ppbv	100
73) 1,3,5-Trimethylbenzene	11.218	105	292453	11.894	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	326247	11.455	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	188321	9.880	ppbv	100
76) 1,4-Dichlorobenzene	11.685	146	186446	10.164	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	185674	9.347	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	120191	8.523	ppbv	100
79) Naphthalene	13.526	128	266390	12.698	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	79067	10.182	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	118002	10.148	ppbv	100

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

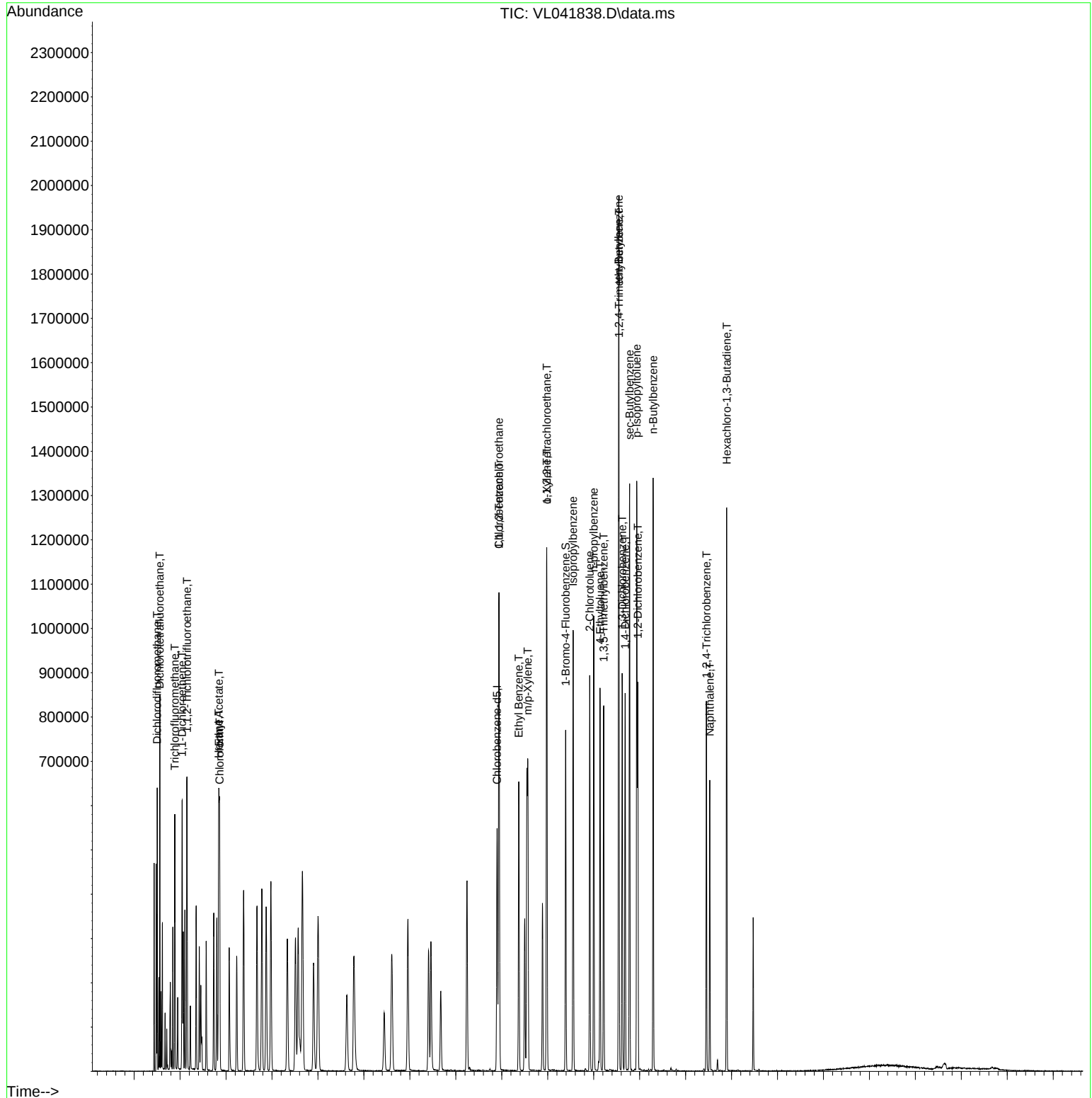
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041838.D
Acq On : 07 Jan 2025 09:18
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:19:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041838.D
 Acq On : 07 Jan 2025 09:18
 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 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:19:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	97717	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	232315	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	198370	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 178169 10.487 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	144187	8.993	ppbv	100
3) Chlorodifluoromethane	1.479	51	136457	8.907	ppbv	100
4) Chloromethane	1.538	50	59602	9.040	ppbv	100
5) Vinyl Chloride	1.586	62	54824	8.244	ppbv	100
6) Bromomethane	1.674	94	25634	8.999	ppbv	100
7) Chloroethane	1.709	64	21958	8.578	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	126162	9.120	ppbv	100
9) Propene	1.489	41	48251	9.047	ppbv	100
10) Heptane	5.004	43	148658	11.283	ppbv	100
11) Trichlorofluoromethane	1.884	101	146982	9.015	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	110744	9.121	ppbv	100
13) Ethanol	1.729	45	3612m	5.891	ppbv	
14) Bromoethene	1.787	108	36921	9.288	ppbv	100
15) Acetone	1.842	43	132708	7.377	ppbv	100
16) 1,3-Butadiene	1.612	39	62332	8.836	ppbv	100
17) tert-Butyl alcohol	2.049	59	142263	9.126	ppbv	100
18) 1,1-Dichloroethene	2.043	96	46359	9.119	ppbv	100
19) Isopropyl Alcohol	1.894	45	67181	7.955	ppbv	100
20) Methylene Chloride	2.068	84	40886	7.950	ppbv	100
21) Allyl Chloride	2.104	41	88727	9.574	ppbv	100
22) trans-1,2-Dichloroethene	2.350	96	51671	9.094	ppbv	100
23) Vinyl Acetate	2.473	43	51668	8.955	ppbv	100
24) 1,1-Dichloroethane	2.418	63	113332	9.114	ppbv	100
25) Ethyl Acetate	2.845	43	301260	9.986	ppbv	100
26) Hexane	2.839	57	110574	10.560	ppbv	100
27) Carbon Disulfide	2.159	76	104642	10.530	ppbv	100
28) Methyl tert-Butyl Ether	2.450	73	73317	9.291	ppbv	100
29) Chloroform	2.861	83	173414	8.915	ppbv	100
30) Cyclohexane	3.875	84	87356	10.996	ppbv	100
31) cis-1,2-Dichloroethene	2.732	61	105358	9.776	ppbv	100
32) 1,1,1-Trichloroethane	3.383	97	164630	9.339	ppbv	100
34) 2-Butanone	2.567	43	170386	9.311	ppbv	100
35) Carbon Tetrachloride	3.781	117	171330	9.758	ppbv	100
36) Benzene	3.674	78	216013	9.733	ppbv	100
37) 1,2-Dichloroethane	3.230	62	138068	9.463	ppbv	100
38) Trichloroethene	4.570	130	81606	9.380	ppbv	100
39) 1,2-Dichloropropane	4.334	63	80487	9.375	ppbv	100
40) 1,4-Dioxane	4.606	88	34679	10.425	ppbv #	100
41) Tetrahydrofuran	3.069	42	91594	10.618	ppbv	100
42) Bromodichloromethane	4.512	83	172183	10.063	ppbv	100
43) Methyl Methacrylate	4.904	69	77566	11.130	ppbv	100
44) 2,2,4-Trimethylpentane	4.661	57	390617	10.683	ppbv	100
45) t-1,3-Dichloropropene	6.438	75	70965	10.430	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041838.D
 Acq On : 07 Jan 2025 09:18
 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 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:19:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	97612	10.905	ppbv	100
47) 1,1,2-Trichloroethane	6.606	97	84906	9.351	ppbv	100
48) Dibromochloromethane	7.409	129	124570	10.778	ppbv	100
49) Bromoform	9.500	173	101730	10.982	ppbv	100
50) 4-Methyl-2-Pentanone	5.784	43	237056	11.212	ppbv	100
51) 2-Hexanone	7.457	43	190925	11.921	ppbv	100
52) Tetrachloroethene	8.244	164	67367	10.236	ppbv	100
53) Toluene	6.959	91	226694	11.464	ppbv	100
54) 1,2-Dibromoethane	7.674	107	110192	9.910	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	107276	9.488	ppbv	100
57) Chlorobenzene	8.940	112	193822	9.352	ppbv	100
58) Ethyl Benzene	9.370	91	325850	12.052	ppbv	100
59) m/p-Xylene	9.565	91	564970m	23.662	ppbv	
60) o-Xylene	9.979	91	281728	12.136	ppbv	100
61) Styrene	9.885	104	112526	12.495	ppbv	100
62) Isopropylbenzene	10.552	105	417672	11.452	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	188048	9.238	ppbv	100
64) n-propylbenzene	11.002	120	109323	11.684	ppbv	100
65) tert-Butylbenzene	11.545	119	375903	11.438	ppbv	100
66) Benzyl Chloride	11.630	91	28370	10.329	ppbv	100
67) sec-Butylbenzene	11.782	105	541663	11.295	ppbv	100
69) p-Isopropyltoluene	11.937	119	449331	11.935	ppbv	100
70) n-Butylbenzene	12.293	91	444870	11.762	ppbv	100
71) 2-Chlorotoluene	10.914	91	310040	11.712	ppbv	100
72) 4-Ethyltoluene	11.138	105	339692	12.100	ppbv	100
73) 1,3,5-Trimethylbenzene	11.218	105	292453	11.894	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	326247	11.455	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	188321	9.880	ppbv	100
76) 1,4-Dichlorobenzene	11.685	146	186446	10.164	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	185674	9.347	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	120191	8.523	ppbv	100
79) Naphthalene	13.526	128	266390	12.698	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	79067	10.182	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	118002	10.148	ppbv	100

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

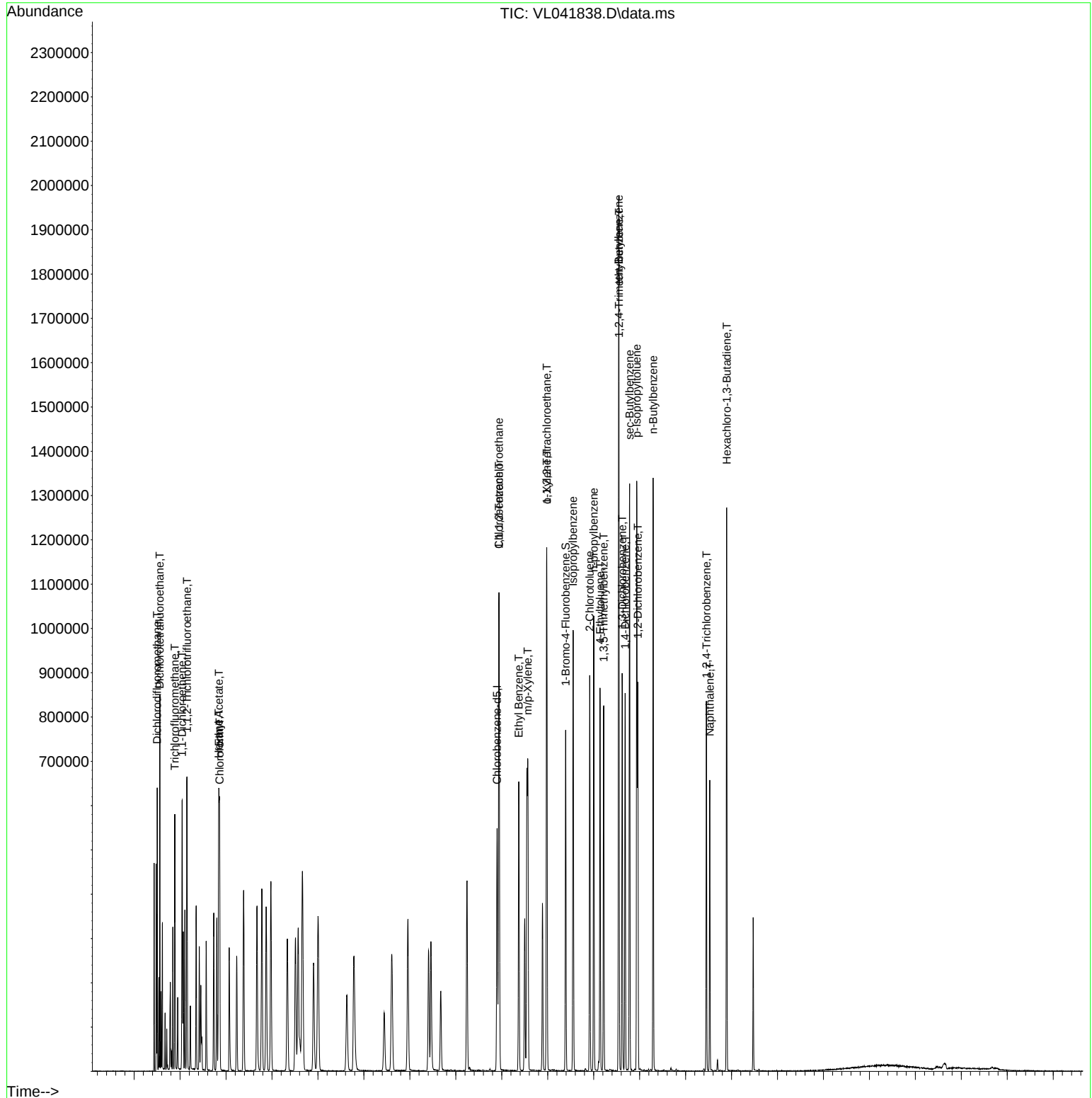
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041838.D
Acq On : 07 Jan 2025 09:18
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:19:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041839.D
 Acq On : 07 Jan 2025 09:51
 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 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:20:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	100639	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	241263	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	201824	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	172685	9.990	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	32740	1.983	ppbv	100
3) Chlorodifluoromethane	1.479	51	32152	2.038	ppbv	98
4) Chloromethane	1.537	50	13584	2.000	ppbv	98
5) Vinyl Chloride	1.586	62	12222	1.785	ppbv	91
6) Bromomethane	1.673	94	6017	2.051	ppbv	95
7) Chloroethane	1.709	64	5296	2.009	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	29417	2.065	ppbv	99
9) Propene	1.489	41	11376	2.071	ppbv	98
10) Heptane	5.007	43	27280	2.010	ppbv	95
11) Trichlorofluoromethane	1.884	101	33615	2.002	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.149	101	25132	2.010	ppbv	99
13) Ethanol	1.728	45	1379	2.184	ppbv	71
14) Bromoethene	1.787	108	8576	2.095	ppbv #	92
15) Acetone	1.842	43	40213	2.170	ppbv	99
16) 1,3-Butadiene	1.615	39	14169	1.950	ppbv	100
17) tert-Butyl alcohol	2.049	59	32475	2.023	ppbv	98
18) 1,1-Dichloroethene	2.042	96	10673	2.039	ppbv	86
19) Isopropyl Alcohol	1.894	45	17352	1.995	ppbv #	1
20) Methylene Chloride	2.068	84	10459	1.975	ppbv #	93
21) Allyl Chloride	2.104	41	19269	2.019	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	12050	2.059	ppbv	95
23) Vinyl Acetate	2.470	43	12341	2.077	ppbv #	95
24) 1,1-Dichloroethane	2.418	63	26237	2.049	ppbv	100
25) Ethyl Acetate	2.852	43	65149	2.097	ppbv	100
26) Hexane	2.839	57	21758	2.018	ppbv	89
27) Carbon Disulfide	2.159	76	19626	1.918	ppbv #	59
28) Methyl tert-Butyl Ether	2.450	73	15614	1.921	ppbv	97
29) Chloroform	2.861	83	40969	2.045	ppbv	98
30) Cyclohexane	3.874	84	16235	1.984	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	22729	2.048	ppbv	98
32) 1,1,1-Trichloroethane	3.382	97	34505	1.901	ppbv	98
34) 2-Butanone	2.570	43	38624	2.032	ppbv	99
35) Carbon Tetrachloride	3.780	117	34059	1.868	ppbv	97
36) Benzene	3.674	78	46253	2.007	ppbv	98
37) 1,2-Dichloroethane	3.233	62	30190	1.993	ppbv	100
38) Trichloroethene	4.570	130	17434	1.930	ppbv #	91
39) 1,2-Dichloropropane	4.337	63	17446	1.957	ppbv	96
40) 1,4-Dioxane	4.612	88	6895m	1.996	ppbv	
41) Tetrahydrofuran	3.075	42	16912	1.888	ppbv	100
42) Bromodichloromethane	4.515	83	34494	1.941	ppbv	94
43) Methyl Methacrylate	4.907	69	13160	1.818	ppbv	96
44) 2,2,4-Trimethylpentane	4.661	57	78928	2.078	ppbv	97
45) t-1,3-Dichloropropene	6.441	75	12917m	1.828	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041839.D
 Acq On : 07 Jan 2025 09:51
 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 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:20:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.638	75	17267m	1.858	ppbv	
47) 1,1,2-Trichloroethane	6.609	97	18220	1.932	ppbv	91
48) Dibromochloromethane	7.412	129	23291	1.940	ppbv	96
49) Bromoform	9.500	173	17754	1.846	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	41290m	1.881	ppbv	
51) 2-Hexanone	7.464	43	30631	1.842	ppbv #	96
52) Tetrachloroethene	8.244	164	14518	2.124	ppbv	95
53) Toluene	6.956	91	38482	1.874	ppbv	99
54) 1,2-Dibromoethane	7.671	107	22893	1.983	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.943	131	23388	2.033	ppbv	98
57) Chlorobenzene	8.940	112	41759	1.980	ppbv	97
58) Ethyl Benzene	9.373	91	51733	1.881	ppbv	98
59) m/p-Xylene	9.568	91	101552m	4.180	ppbv	
60) o-Xylene	9.979	91	49709	2.105	ppbv	98
61) Styrene	9.888	104	15487	1.690	ppbv	99
62) Isopropylbenzene	10.555	105	75283	2.029	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	40760	1.968	ppbv	99
64) n-propylbenzene	11.005	120	19823	2.082	ppbv	94
65) tert-Butylbenzene	11.545	119	74996	2.243	ppbv	99
66) Benzyl Chloride	11.629	91	5086m	1.820	ppbv	
67) sec-Butylbenzene	11.781	105	107222	2.198	ppbv	98
69) p-Isopropyltoluene	11.940	119	83161	2.171	ppbv	99
70) n-Butylbenzene	12.296	91	84529	2.197	ppbv	99
71) 2-Chlorotoluene	10.917	91	53695	1.994	ppbv	100
72) 4-Ethyltoluene	11.141	105	58453	2.047	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	51583	2.062	ppbv	99
74) 1,2,4-Trimethylbenzene	11.548	105	65350	2.255	ppbv #	85
75) 1,3-Dichlorobenzene	11.620	146	40038	2.064	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	38915	2.085	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	42869	2.121	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	31681	2.208	ppbv	98
79) Naphthalene	13.526	128	52334	2.452	ppbv	99
80) Naphthalene,2-methyl-	14.474	142	15888	2.011	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	26499	2.240	ppbv	99

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

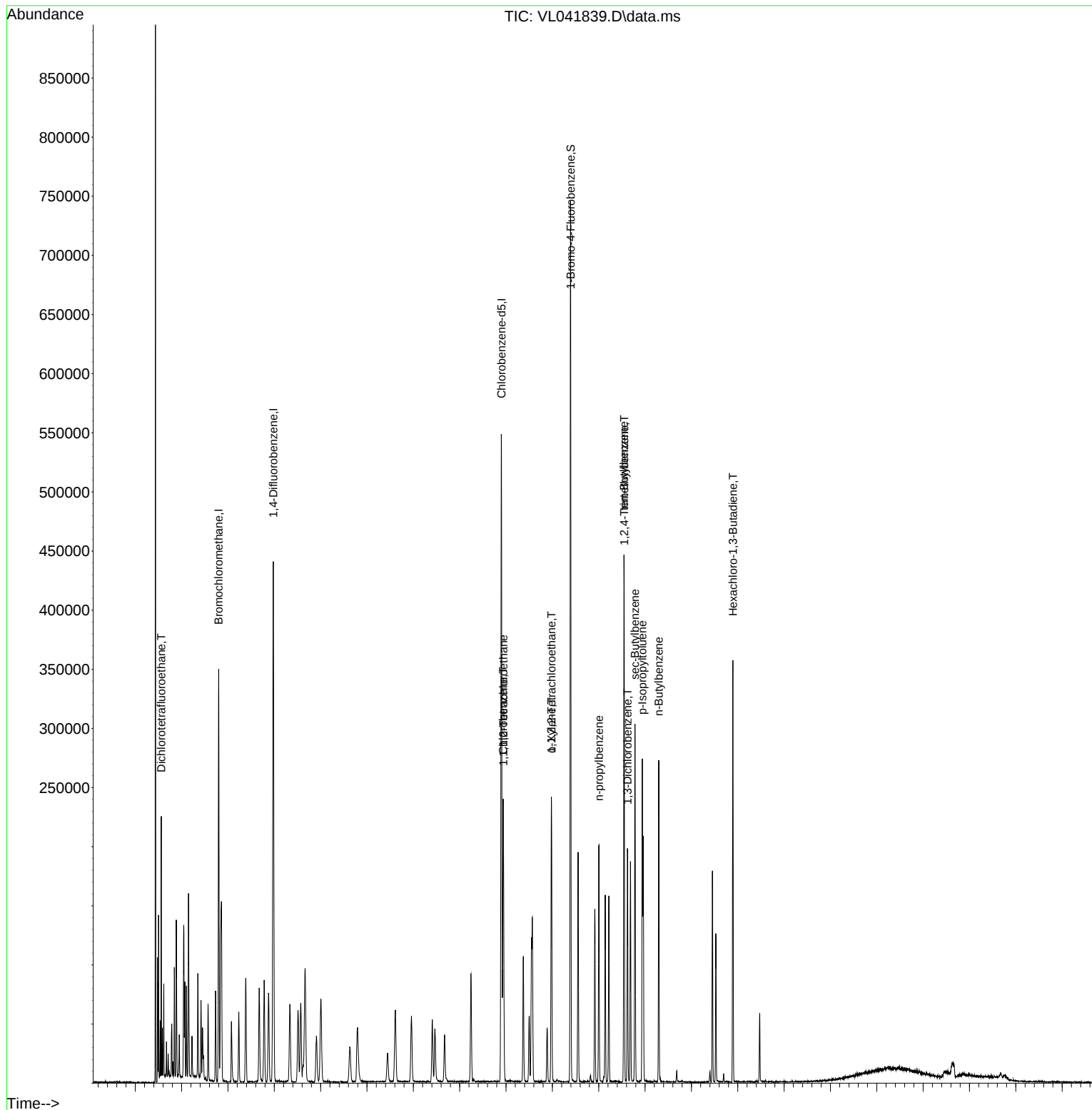
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041839.D
Acq On : 07 Jan 2025 09:51
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041840.D
 Acq On : 07 Jan 2025 10:21
 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 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:21:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	96549	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	232532	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	194086	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	164226	9.879	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	16559	1.045	ppbv	97
3) Chlorodifluoromethane	1.482	51	15873	1.049	ppbv	100
4) Chloromethane	1.538	50	6729	1.033	ppbv	98
5) Vinyl Chloride	1.586	62	6313	0.961	ppbv	97
6) Bromomethane	1.677	94	2955	1.050	ppbv	96
7) Chloroethane	1.712	64	2579	1.020	ppbv	94
8) Dichlorotetrafluoroethane	1.560	85	13682	1.001	ppbv	98
9) Propene	1.489	41	5371	1.019	ppbv	96
10) Heptane	5.010	43	11328	0.870	ppbv	94
11) Trichlorofluoromethane	1.887	101	16911	1.050	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.149	101	12386	1.032	ppbv	99
13) Ethanol	1.732	45	696m	1.149	ppbv	
14) Bromoethene	1.790	108	3972	1.011	ppbv #	93
15) Acetone	1.845	43	20021	1.126	ppbv	99
16) 1,3-Butadiene	1.615	39	7124	1.022	ppbv	99
17) tert-Butyl alcohol	2.052	59	16296	1.058	ppbv	98
18) 1,1-Dichloroethene	2.046	96	5187	1.033	ppbv	99
19) Isopropyl Alcohol	1.897	45	9089	1.089	ppbv #	1
20) Methylene Chloride	2.072	84	5540	1.090	ppbv	94
21) Allyl Chloride	2.107	41	9314	1.017	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	5931	1.057	ppbv	97
23) Vinyl Acetate	2.476	43	5463	0.958	ppbv #	96
24) 1,1-Dichloroethane	2.424	63	12403	1.009	ppbv	98
25) Ethyl Acetate	2.855	43	28818	0.967	ppbv	96
26) Hexane	2.842	57	9441	0.913	ppbv	81
27) Carbon Disulfide	2.162	76	8674	0.883	ppbv #	51
28) Methyl tert-Butyl Ether	2.453	73	8132	1.043	ppbv	94
29) Chloroform	2.865	83	20041	1.043	ppbv	96
30) Cyclohexane	3.881	84	6949	0.885	ppbv	94
31) cis-1,2-Dichloroethene	2.735	61	10514	0.987	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	16717	0.960	ppbv	100
34) 2-Butanone	2.573	43	17859	0.975	ppbv	99
35) Carbon Tetrachloride	3.787	117	15937	0.907	ppbv	98
36) Benzene	3.677	78	21504	0.968	ppbv	94
37) 1,2-Dichloroethane	3.237	62	14318	0.980	ppbv	97
38) Trichloroethene	4.583	130	8206m	0.942	ppbv	
39) 1,2-Dichloropropane	4.337	63	8600m	1.001	ppbv	
40) 1,4-Dioxane	4.625	88	3125m	0.939	ppbv	
41) Tetrahydrofuran	3.081	42	7497	0.868	ppbv	98
42) Bromodichloromethane	4.522	83	15637	0.913	ppbv #	90
43) Methyl Methacrylate	4.910	69	5953m	0.853	ppbv	
44) 2,2,4-Trimethylpentane	4.677	57	32898	0.899	ppbv	91
45) t-1,3-Dichloropropene	6.451	75	5502	0.808	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041840.D
 Acq On : 07 Jan 2025 10:21
 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 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:21:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	7644m	0.853	ppbv	
47) 1,1,2-Trichloroethane	6.616	97	9034m	0.994	ppbv	
48) Dibromochloromethane	7.418	129	9977	0.862	ppbv	98
49) Bromoform	9.500	173	7621	0.822	ppbv	99
50) 4-Methyl-2-Pentanone	5.803	43	18288m	0.864	ppbv	
51) 2-Hexanone	7.477	43	11832	0.738	ppbv #	100
52) Tetrachloroethene	8.247	164	6903m	1.048	ppbv	
53) Toluene	6.962	91	16301m	0.824	ppbv	
54) 1,2-Dibromoethane	7.681	107	10719	0.963	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.943	131	10939	0.989	ppbv #	1
57) Chlorobenzene	8.946	112	20695	1.021	ppbv	95
58) Ethyl Benzene	9.377	91	20575	0.778	ppbv #	86
59) m/p-Xylene	9.574	91	37403m	1.601	ppbv	
60) o-Xylene	9.985	91	17740	0.781	ppbv	95
61) Styrene	9.888	104	6320	0.717	ppbv	96
62) Isopropylbenzene	10.558	105	29086	0.815	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.982	83	18845	0.946	ppbv	96
64) n-propylbenzene	11.008	120	7978	0.871	ppbv	96
65) tert-Butylbenzene	11.548	119	27703	0.862	ppbv	99
66) Benzyl Chloride	11.633	91	2320	0.863	ppbv	97
67) sec-Butylbenzene	11.785	105	41306	0.880	ppbv	97
69) p-Isopropyltoluene	11.943	119	30189	0.820	ppbv	98
70) n-Butylbenzene	12.299	91	30246	0.817	ppbv	99
71) 2-Chlorotoluene	10.917	91	21930	0.847	ppbv	98
72) 4-Ethyltoluene	11.144	105	21421	0.780	ppbv	97
73) 1,3,5-Trimethylbenzene	11.222	105	19547	0.813	ppbv	98
74) 1,2,4-Trimethylbenzene	11.555	105	24542	0.881	ppbv	97
75) 1,3-Dichlorobenzene	11.626	146	18815	1.009	ppbv	98
76) 1,4-Dichlorobenzene	11.691	146	16488	0.919	ppbv	95
77) 1,2-Dichlorobenzene	11.963	146	19852	1.021	ppbv	99
78) Hexachloro-1,3-Butadiene	13.898	225	14814	1.074	ppbv	99
79) Naphthalene	13.529	128	16677	0.812	ppbv #	96
80) Naphthalene,2-methyl-	14.474	142	5705	0.751	ppbv	97
81) 1,2,4-Trichlorobenzene	13.455	180	10080	0.886	ppbv	99

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

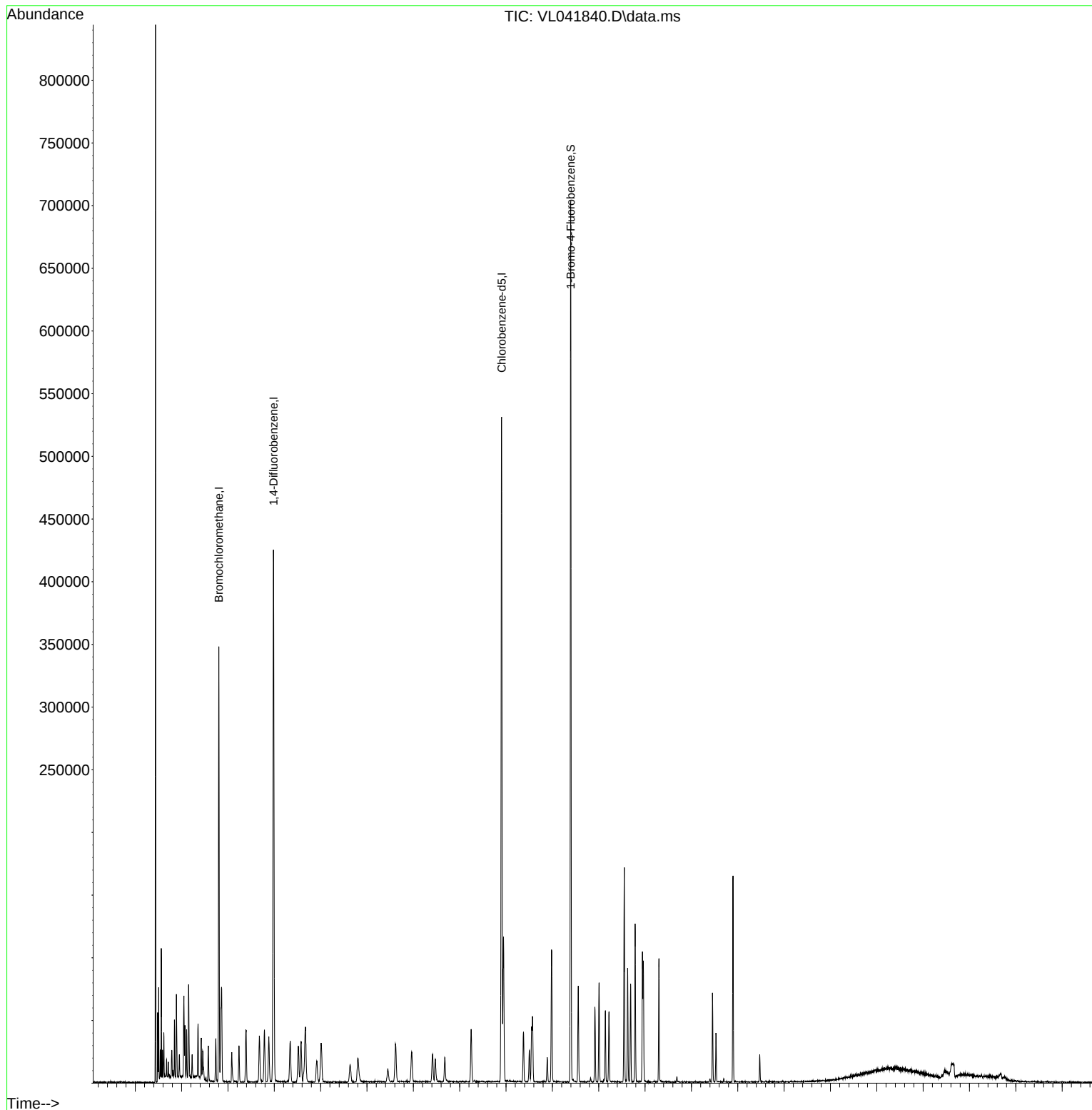
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041840.D
Acq On : 07 Jan 2025 10:21
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Jan 08 01:21:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025
Supervised By : Mahesh Dadoda 01/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041841.D
 Acq On : 07 Jan 2025 10:52
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jan 08 01:21:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	90228	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	210692	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	175693	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	149231	9.917	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8282	0.559	ppbv	99
3) Chlorodifluoromethane	1.479	51	7858	0.555	ppbv	97
4) Chloromethane	1.538	50	3343	0.549	ppbv	92
5) Vinyl Chloride	1.583	62	3086	0.503	ppbv	90
6) Bromomethane	1.673	94	1453	0.552	ppbv	96
7) Chloroethane	1.709	64	1413	0.598	ppbv	93
8) Dichlorotetrafluoroethane	1.560	85	6936	0.543	ppbv	99
9) Propene	1.489	41	2570	0.522	ppbv	87
10) Heptane	5.004	43	4633m	0.381	ppbv	
11) Trichlorofluoromethane	1.884	101	8242	0.547	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	6155	0.549	ppbv	96
13) Ethanol	1.725	45	662	1.169	ppbv	95
14) Bromoethene	1.787	108	1897	0.517	ppbv #	84
15) Acetone	1.842	43	10484	0.631	ppbv	97
16) 1,3-Butadiene	1.615	39	3795	0.583	ppbv	86
17) tert-Butyl alcohol	2.052	59	7735	0.537	ppbv	98
18) 1,1-Dichloroethene	2.042	96	2555	0.544	ppbv	92
19) Isopropyl Alcohol	1.894	45	5026	0.645	ppbv #	95
20) Methylene Chloride	2.068	84	3053	0.643	ppbv	92
21) Allyl Chloride	2.104	41	4272	0.499	ppbv	86
22) trans-1,2-Dichloroethene	2.350	96	2791	0.532	ppbv #	79
23) Vinyl Acetate	2.470	43	2406m	0.452	ppbv	
24) 1,1-Dichloroethane	2.418	63	6246	0.544	ppbv	96
25) Ethyl Acetate	2.852	43	12851	0.461	ppbv	97
26) Hexane	2.835	57	4350	0.450	ppbv	86
27) Carbon Disulfide	2.159	76	4312	0.470	ppbv #	1
28) Methyl tert-Butyl Ether	2.450	73	4116	0.565	ppbv	91
29) Chloroform	2.858	83	9887	0.550	ppbv	92
30) Cyclohexane	3.871	84	3038m	0.414	ppbv	
31) cis-1,2-Dichloroethene	2.729	61	4773	0.480	ppbv	94
32) 1,1,1-Trichloroethane	3.382	97	8151	0.501	ppbv	97
34) 2-Butanone	2.570	43	8647	0.521	ppbv	97
35) Carbon Tetrachloride	3.784	117	7956	0.500	ppbv	88
36) Benzene	3.674	78	9795	0.487	ppbv	95
37) 1,2-Dichloroethane	3.230	62	6918	0.523	ppbv #	95
38) Trichloroethene	4.570	130	3763	0.477	ppbv #	85
39) 1,2-Dichloropropane	4.331	63	4076	0.524	ppbv	97
40) 1,4-Dioxane	4.629	88	1225m	0.406	ppbv	
41) Tetrahydrofuran	3.075	42	3545m	0.453	ppbv	
42) Bromodichloromethane	4.512	83	7678m	0.495	ppbv	
43) Methyl Methacrylate	4.900	69	2537m	0.401	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	13710	0.413	ppbv #	89
45) t-1,3-Dichloropropene	6.438	75	2941m	0.477	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041841.D
 Acq On : 07 Jan 2025 10:52
 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 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:21:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	3526m	0.434	ppbv	
47) 1,1,2-Trichloroethane	6.606	97	4392m	0.533	ppbv	
48) Dibromochloromethane	7.409	129	4575m	0.436	ppbv	
49) Bromoform	9.496	173	3639	0.433	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	7670m	0.400	ppbv	
51) 2-Hexanone	7.467	43	5557m	0.383	ppbv	
52) Tetrachloroethene	8.244	164	3227m	0.541	ppbv	
53) Toluene	6.962	91	6897m	0.385	ppbv	
54) 1,2-Dibromoethane	7.681	107	4885m	0.484	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	5115	0.511	ppbv #	1
57) Chlorobenzene	8.940	112	9721m	0.530	ppbv	
58) Ethyl Benzene	9.373	91	8814	0.368	ppbv	93
59) m/p-Xylene	9.568	91	14012m	0.663	ppbv	
60) o-Xylene	9.979	91	6551	0.319	ppbv	100
61) Styrene	9.885	104	2777	0.348	ppbv	98
62) Isopropylbenzene	10.552	105	12528	0.388	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	8924	0.495	ppbv	97
64) n-propylbenzene	10.998	120	2721m	0.328	ppbv	
65) tert-Butylbenzene	11.542	119	9315	0.320	ppbv	100
66) Benzyl Chloride	11.633	91	1242	0.511	ppbv #	91
67) sec-Butylbenzene	11.782	105	14329	0.337	ppbv	100
69) p-Isopropyltoluene	11.940	119	10167	0.305	ppbv	94
70) n-Butylbenzene	12.293	91	10226	0.305	ppbv	98
71) 2-Chlorotoluene	10.914	91	8114	0.346	ppbv	98
72) 4-Ethyltoluene	11.137	105	8065	0.324	ppbv #	97
73) 1,3,5-Trimethylbenzene	11.215	105	7174	0.329	ppbv	89
74) 1,2,4-Trimethylbenzene	11.548	105	7816	0.310	ppbv #	87
75) 1,3-Dichlorobenzene	11.620	146	7704	0.456	ppbv	98
76) 1,4-Dichlorobenzene	11.684	146	7404	0.456	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	8725	0.496	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	6344	0.508	ppbv	95
79) Naphthalene	13.529	128	6035	0.325	ppbv #	93
80) Naphthalene,2-methyl-	14.471	142	2415	0.351	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	4239	0.412	ppbv	99

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

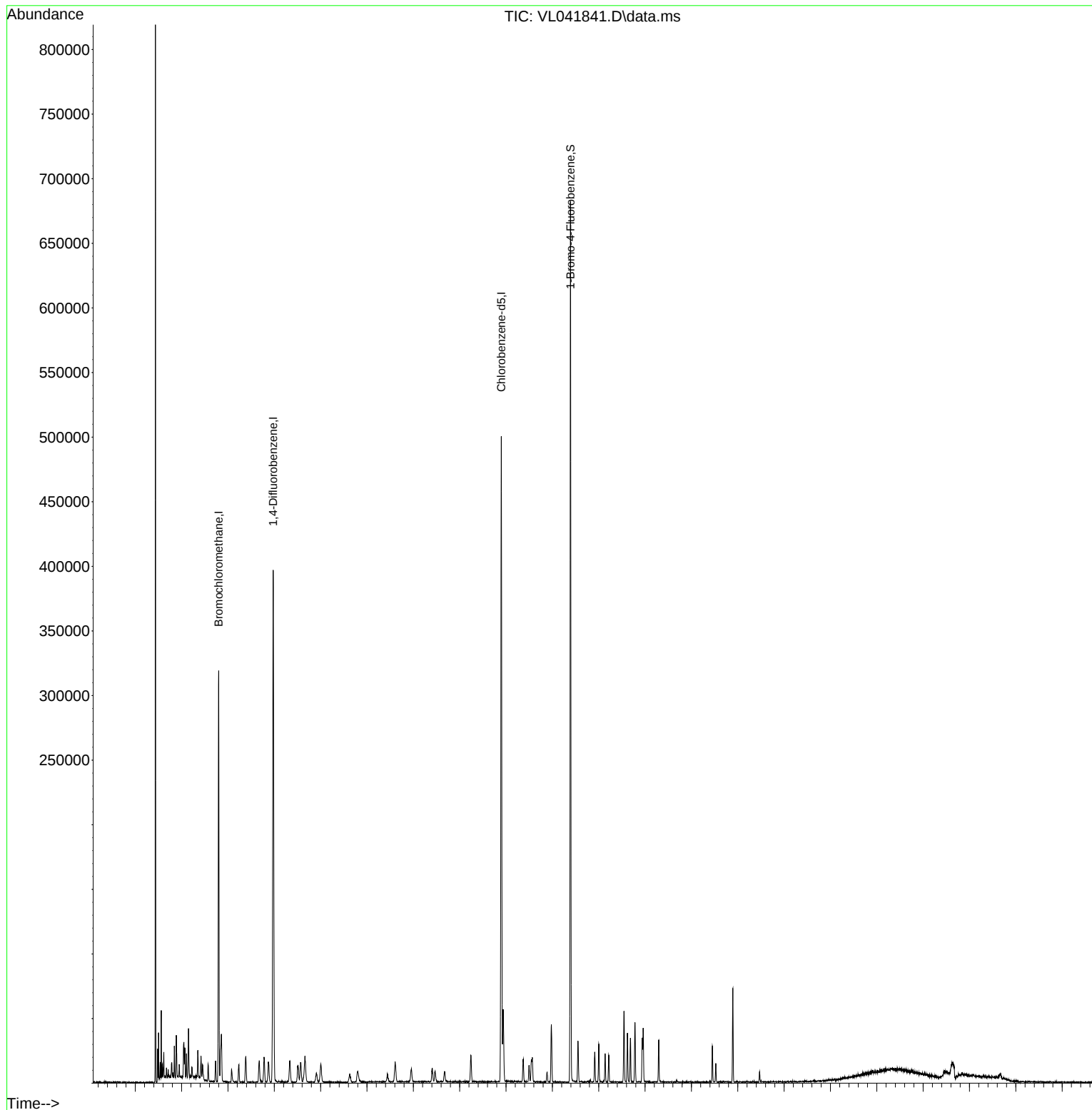
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041841.D
Acq On : 07 Jan 2025 10:52
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025
Supervised By : Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:21:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041842.D
 Acq On : 07 Jan 2025 11:22
 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 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:22:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	88722	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	202136	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	168288	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	139535	9.681	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.586	62	711	0.118	ppbv #	84
32) 1,1,1-Trichloroethane	3.382	97	1574	0.098	ppbv #	21
35) Carbon Tetrachloride	3.784	117	1607	0.105	ppbv #	71
38) Trichloroethene	4.570	130	913m	0.121	ppbv	
52) Tetrachloroethene	8.244	164	588m	0.103	ppbv	
54) 1,2-Dibromoethane	7.681	107	929m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.985	83	1698	0.098	ppbv #	94
79) Naphthalene	13.529	128	1063	0.060	ppbv #	86

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

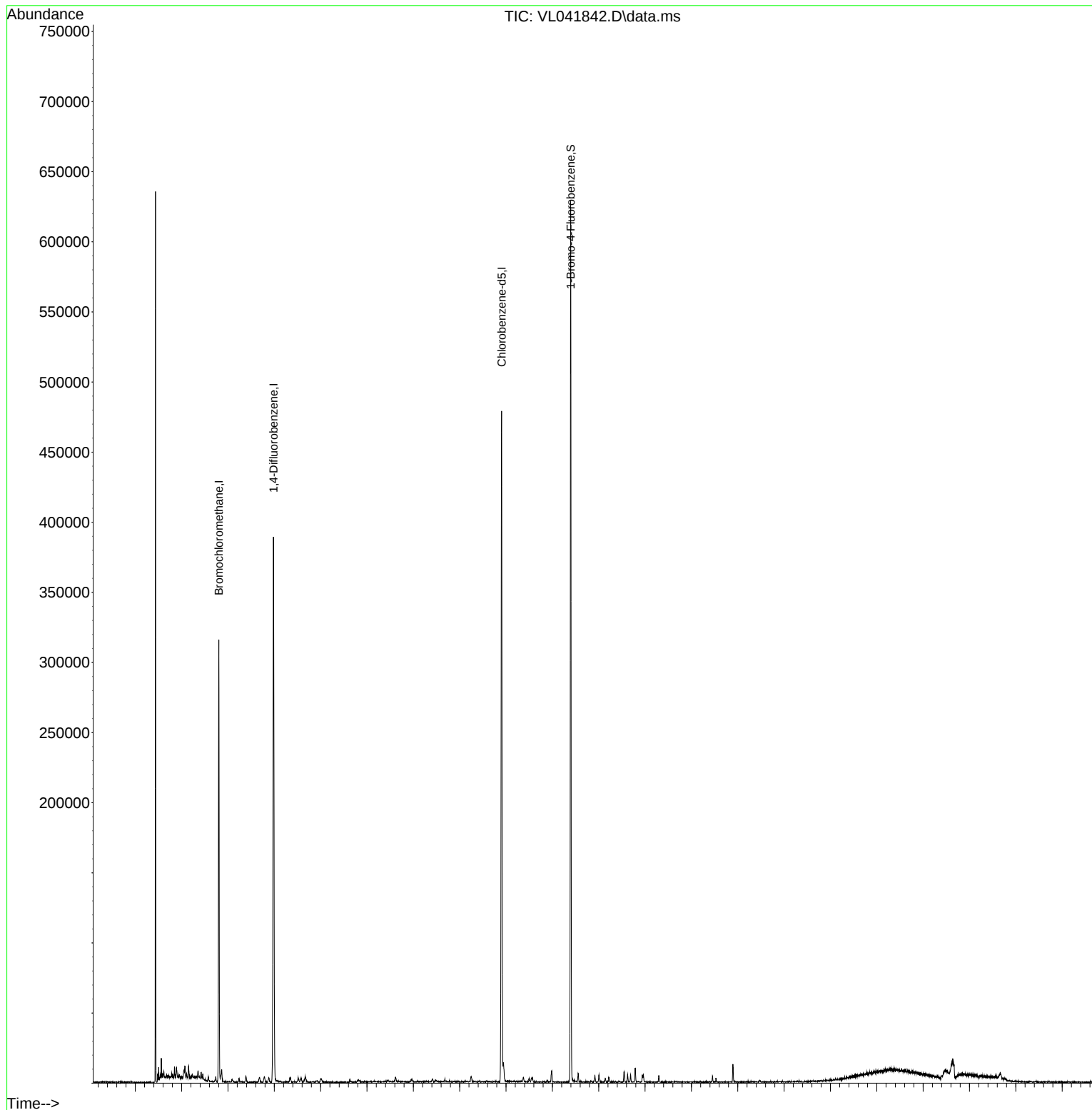
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041842.D
Acq On : 07 Jan 2025 11:22
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025
Supervised By : Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:22:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041843.D
 Acq On : 07 Jan 2025 11:52
 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 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:23:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	85525	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.984	114	192559	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	161678	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	131934	9.528	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.300%
Target Compounds						
5) Vinyl Chloride	1.586	62	224	0.038	ppbv #	32
32) 1,1,1-Trichloroethane	3.389	97	547	0.035	ppbv #	83
35) Carbon Tetrachloride	3.790	117	461m	0.032	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	601m	0.036	ppbv	

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

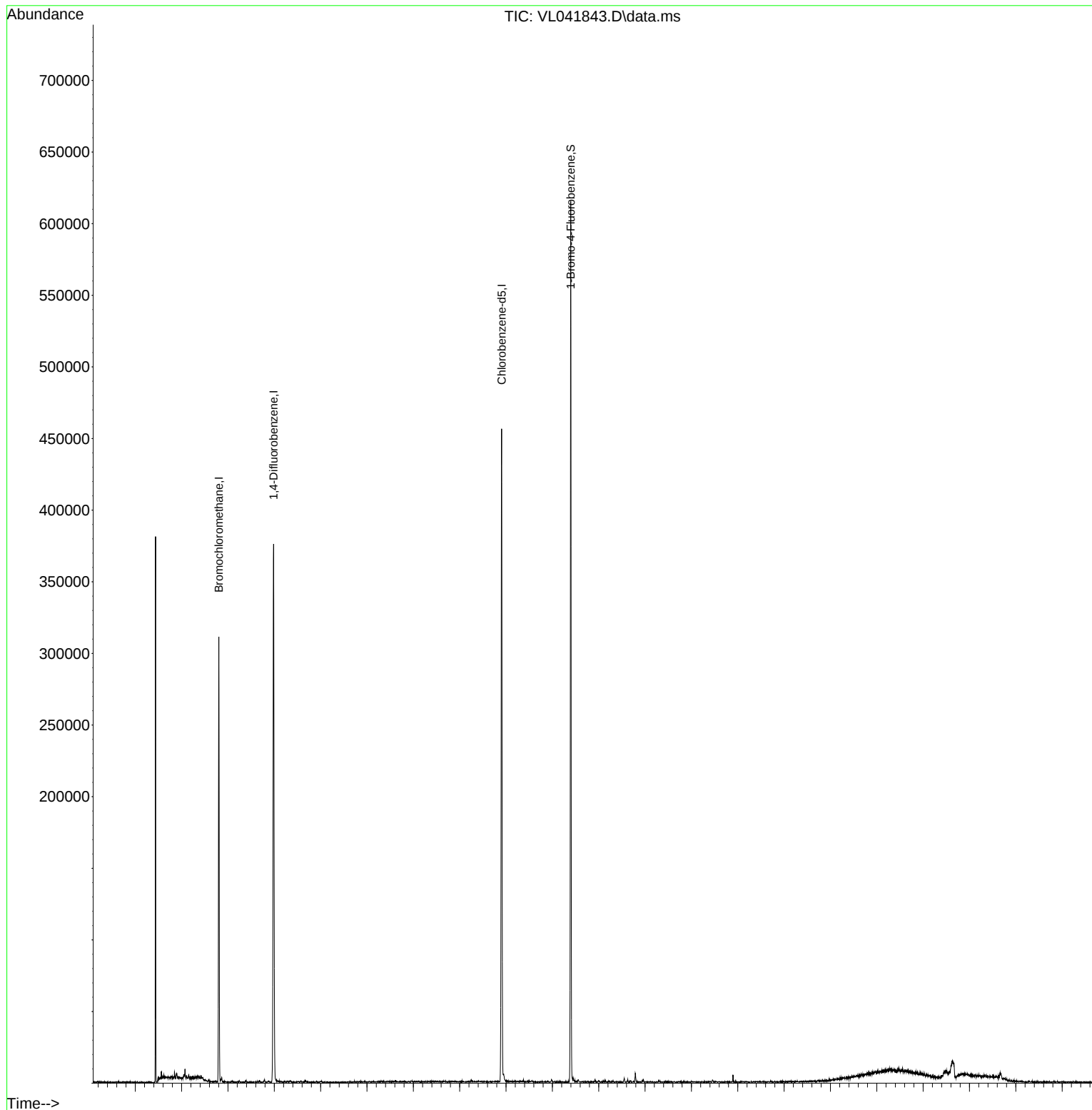
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041843.D
Acq On : 07 Jan 2025 11:52
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jan 08 01:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025
Supervised By : Mahesh Dadoda 01/09/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041844.D
 Acq On : 07 Jan 2025 12:25
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Jan 08 01:23:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Jan 08 01:18:22 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

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

Internal Standards						
1) Bromochloromethane	2.803	49	93311	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	214048	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	188085	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	169446	10.519	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.200%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.505	85	217118	14.181	ppbv	97
3) Chlorodifluoromethane	1.483	51	204247	13.962	ppbv	100
4) Chloromethane	1.538	50	91107	14.470	ppbv	98
5) Vinyl Chloride	1.586	62	81611	12.852	ppbv	98
6) Bromomethane	1.674	94	37525	13.796	ppbv	94
7) Chloroethane	1.712	64	33831	13.840	ppbv	99
8) Dichlorotetrafluoroethane	1.560	85	191885	14.527	ppbv	99
9) Propene	1.489	41	76147	14.952	ppbv	100
10) Heptane	5.007	43	232968	18.518	ppbv	99
11) Trichlorofluoromethane	1.887	101	222468	14.290	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.149	101	165689	14.290	ppbv	100
13) Ethanol	1.729	45	4786	8.174	ppbv	95
14) Bromoethene	1.790	108	55728	14.681	ppbv	99
15) Acetone	1.842	43	203219	11.829	ppbv	97
16) 1,3-Butadiene	1.615	39	96407	14.311	ppbv	99
17) tert-Butyl alcohol	2.049	59	210612	14.149	ppbv	100
18) 1,1-Dichloroethene	2.046	96	68995	14.213	ppbv	95
19) Isopropyl Alcohol	1.894	45	100236	12.430	ppbv	100
20) Methylene Chloride	2.072	84	62016	12.627	ppbv	96
21) Allyl Chloride	2.107	41	135077	15.264	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	76536	14.107	ppbv	92
23) Vinyl Acetate	2.476	43	87069	15.804	ppbv	99
24) 1,1-Dichloroethane	2.421	63	172210	14.503	ppbv	100
25) Ethyl Acetate	2.848	43	459657	15.955	ppbv	99
26) Hexane	2.842	57	168383	16.841	ppbv	100
27) Carbon Disulfide	2.162	76	165817	17.474	ppbv	98
28) Methyl tert-Butyl Ether	2.454	73	105985	14.065	ppbv	99
29) Chloroform	2.865	83	262539	14.134	ppbv	98
30) Cyclohexane	3.881	84	135635	17.879	ppbv	99
31) cis-1,2-Dichloroethene	2.735	61	162395	15.779	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	249799	14.840	ppbv	100
34) 2-Butanone	2.570	43	261912	15.534	ppbv	98
35) Carbon Tetrachloride	3.784	117	261173	16.145	ppbv	97
36) Benzene	3.677	78	331869	16.230	ppbv	99
37) 1,2-Dichloroethane	3.237	62	207949	15.469	ppbv	100
38) Trichloroethene	4.577	130	125492	15.656	ppbv	96
39) 1,2-Dichloropropane	4.337	63	122940	15.543	ppbv	98
40) 1,4-Dioxane	4.609	88	55317	18.048	ppbv #	95
41) Tetrahydrofuran	3.068	42	145035	18.249	ppbv	100
42) Bromodichloromethane	4.519	83	265034	16.811	ppbv	98
43) Methyl Methacrylate	4.913	69	127306	19.826	ppbv	98
44) 2,2,4-Trimethylpentane	4.667	57	589679	17.503	ppbv	99
45) t-1,3-Dichloropropene	6.451	75	120537	19.228	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041844.D
 Acq On : 07 Jan 2025 12:25
 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 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 01:23:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 01:18:22 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	156300	18.952	ppbv	98
47) 1,1,2-Trichloroethane	6.613	97	129484	15.477	ppbv	97
48) Dibromochloromethane	7.415	129	194367	18.252	ppbv	100
49) Bromoform	9.503	173	165226	19.360	ppbv	99
50) 4-Methyl-2-Pentanone	5.790	43	373823	19.190	ppbv	100
51) 2-Hexanone	7.464	43	306279	20.756	ppbv	98
52) Tetrachloroethene	8.250	164	105951	17.472	ppbv	97
53) Toluene	6.962	91	360317	19.776	ppbv	99
54) 1,2-Dibromoethane	7.677	107	172958	16.883	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.946	131	164661	15.360	ppbv	99
57) Chlorobenzene	8.943	112	293187	14.921	ppbv	95
58) Ethyl Benzene	9.377	91	515403	20.106	ppbv	99
59) m/p-Xylene	9.571	91	880667m	38.901	ppbv	
60) o-Xylene	9.985	91	434378	19.735	ppbv	100
61) Styrene	9.891	104	191091	22.378	ppbv	100
62) Isopropylbenzene	10.558	105	648118	18.743	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	279419	14.477	ppbv	99
64) n-propylbenzene	11.005	120	167958	18.932	ppbv	100
65) tert-Butylbenzene	11.548	119	576406	18.498	ppbv	100
66) Benzyl Chloride	11.633	91	46260	17.763	ppbv	99
67) sec-Butylbenzene	11.785	105	829725	18.248	ppbv	100
69) p-Isopropyltoluene	11.943	119	691614	19.375	ppbv	99
70) n-Butylbenzene	12.296	91	698101	19.466	ppbv	99
71) 2-Chlorotoluene	10.917	91	486908	19.398	ppbv	99
72) 4-Ethyltoluene	11.141	105	534215	20.070	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	457438	19.622	ppbv	98
74) 1,2,4-Trimethylbenzene	11.555	105	496746	18.396	ppbv	95
75) 1,3-Dichlorobenzene	11.626	146	286905	15.874	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	289777	16.662	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	280054	14.870	ppbv	100
78) Hexachloro-1,3-Butadiene	13.898	225	191358	14.312	ppbv	99
79) Naphthalene	13.529	128	431155	21.675	ppbv	99
80) Naphthalene,2-methyl-	14.474	142	168205	22.846	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	191178	17.340	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041846.D
 Acq On : 07 Jan 2025 15:55
 Operator : SY/MD
 Sample : VL0107ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0107ABL01

Quant Time: Jan 08 03:55:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jan 08 03:26:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	90245	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	205689	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	171847	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	136731	9.290	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.900%

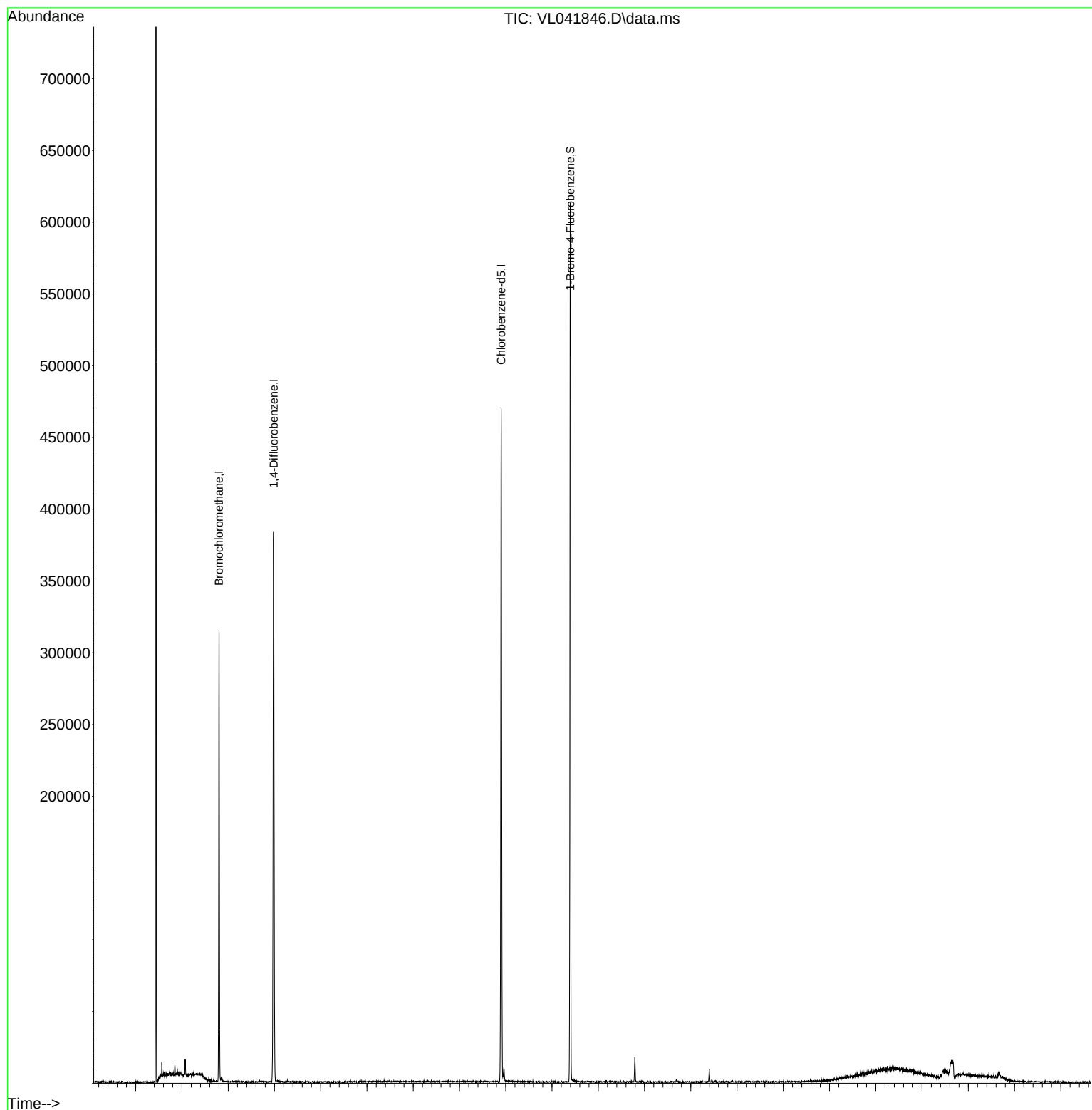
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041846.D
Acq On : 07 Jan 2025 15:55
Operator : SY/MD
Sample : VL0107ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0107ABL01

Quant Time: Jan 08 03:55:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041853.D
 Acq On : 07 Jan 2025 20:06
 Operator : SY/MD
 Sample : QC010225 CAN 10443
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC010225 CAN 10443

Quant Time: Jan 08 03:58:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jan 08 03:26:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	81209	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	170521	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	142124	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	115326	9.474	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.700%

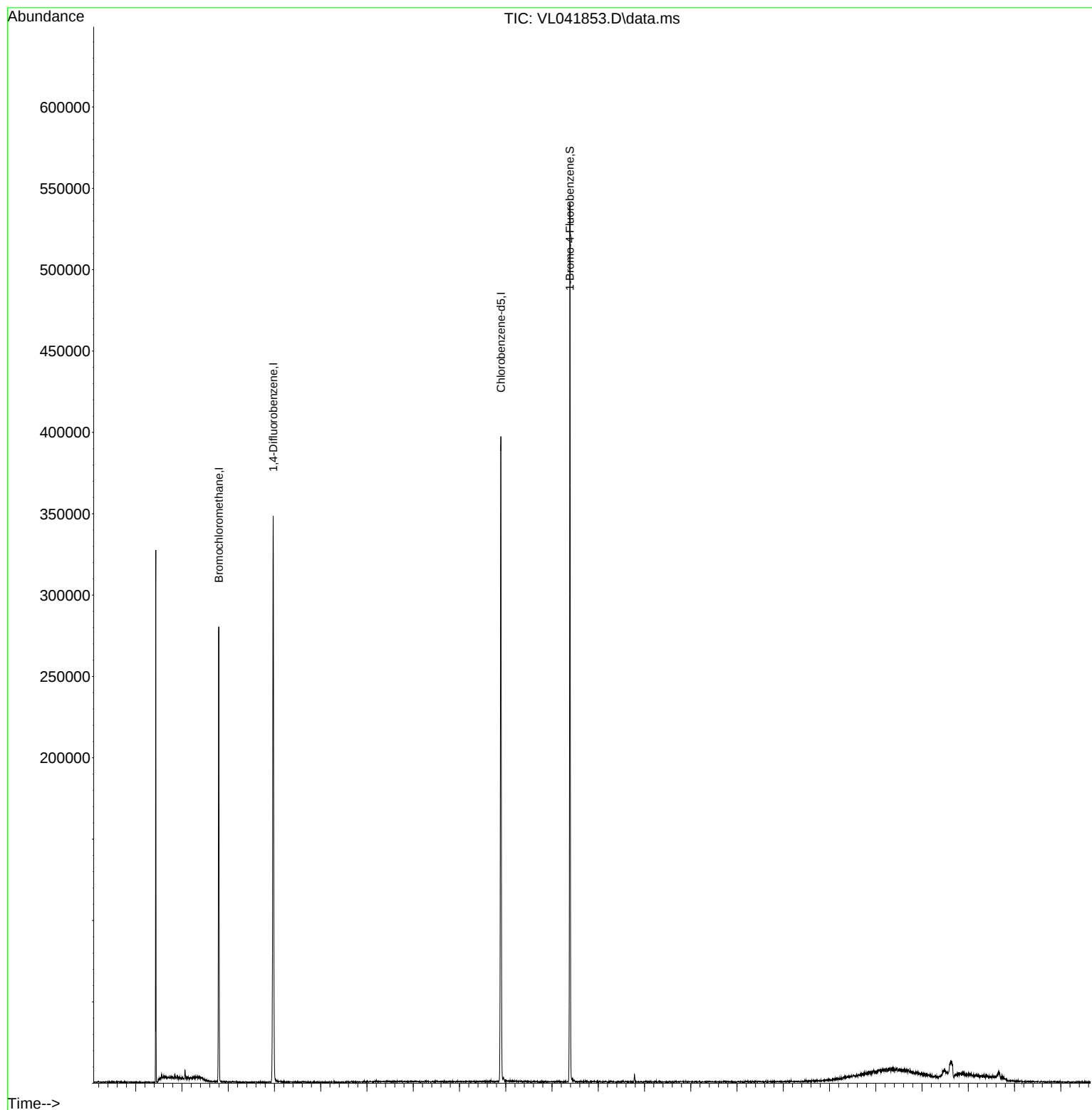
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041853.D
Acq On : 07 Jan 2025 20:06
Operator : SY/MD
Sample : QC010225 CAN 10443
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC010225 CAN 10443

Quant Time: Jan 08 03:58:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041854.D
 Acq On : 07 Jan 2025 20:36
 Operator : SY/MD
 Sample : VL0107ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0107ABS01

Quant Time: Jan 08 03:58:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

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

Internal Standards						
1) Bromochloromethane	2.793	49	85990	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	194920	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	165772	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 151241 10.652 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	146771	10.402	ppbv	99
3) Chlorodifluoromethane	1.479	51	135919	10.082	ppbv	99
4) Chloromethane	1.534	50	60366	10.404	ppbv	97
5) Vinyl Chloride	1.583	62	53590	9.158	ppbv	99
6) Bromomethane	1.670	94	24581	9.806	ppbv	99
7) Chloroethane	1.709	64	22309	9.903	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	125331	10.296	ppbv	100
9) Propene	1.486	41	45656	9.728	ppbv	99
10) Heptane	4.994	43	144790	12.489	ppbv	98
11) Trichlorofluoromethane	1.881	101	148270	10.335	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	109192	10.219	ppbv	99
13) Ethanol	1.725	45	2779	4.507	ppbv	92
14) Bromoethene	1.787	108	35736	10.216	ppbv	98
15) Acetone	1.839	43	135237	8.542	ppbv	97
16) 1,3-Butadiene	1.612	39	65023	10.474	ppbv	96
17) tert-Butyl alcohol	2.046	59	138354	10.086	ppbv	100
18) 1,1-Dichloroethene	2.039	96	43896	9.812	ppbv	95
19) Isopropyl Alcohol	1.890	45	64033	8.616	ppbv	99
20) Methylene Chloride	2.065	84	40402	8.927	ppbv	95
21) Allyl Chloride	2.101	41	85878	10.530	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	50124	10.025	ppbv	91
23) Vinyl Acetate	2.470	43	41833	8.496	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	113470	10.369	ppbv	99
25) Ethyl Acetate	2.842	43	295219	11.120	ppbv	99
26) Hexane	2.835	57	105115	11.408	ppbv	95
27) Carbon Disulfide	2.156	76	104740	11.977	ppbv	100
28) Methyl tert-Butyl Ether	2.447	73	66688	9.603	ppbv	100
29) Chloroform	2.858	83	173121	10.114	ppbv	98
30) Cyclohexane	3.871	84	83245	11.914	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	97209	10.250	ppbv	99
32) 1,1,1-Trichloroethane	3.379	97	158450	10.214	ppbv	99
34) 2-Butanone	2.564	43	162772	10.601	ppbv	99
35) Carbon Tetrachloride	3.774	117	168870	11.463	ppbv	96
36) Benzene	3.667	78	205594	11.041	ppbv	97
37) 1,2-Dichloroethane	3.227	62	132576	10.830	ppbv	99
38) Trichloroethene	4.564	130	76911	10.741	ppbv	94
39) 1,2-Dichloropropane	4.331	63	76980	10.687	ppbv	96
40) 1,4-Dioxane	4.599	88	31586	11.330	ppbv #	79
41) Tetrahydrofuran	3.065	42	87142	12.048	ppbv	99
42) Bromodichloromethane	4.502	83	168564	11.741	ppbv	97
43) Methyl Methacrylate	4.900	69	72301	12.365	ppbv	99
44) 2,2,4-Trimethylpentane	4.654	57	383142	12.488	ppbv	100
45) t-1,3-Dichloropropene	6.438	75	62730	10.988	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041854.D
 Acq On : 07 Jan 2025 20:36
 Operator : SY/MD
 Sample : VL0107ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0107ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
 Supervised By :Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 03:58:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	85898	11.427	ppbv	95
47) 1,1,2-Trichloroethane	6.596	97	82732	10.873	ppbv	94
48) Dibromochloromethane	7.402	129	118547	12.224	ppbv	96
49) Bromoform	9.496	173	99742	12.834	ppbv	100
50) 4-Methyl-2-Pentanone	5.771	43	231659	13.046	ppbv	100
51) 2-Hexanone	7.454	43	185684	13.818	ppbv	99
52) Tetrachloroethene	8.237	164	63814	11.558	ppbv	96
53) Toluene	6.952	91	214221	12.926	ppbv	99
54) 1,2-Dibromoethane	7.668	107	106412	11.406	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.936	131	107865	11.417	ppbv	99
57) Chlorobenzene	8.933	112	187743	10.840	ppbv	93
58) Ethyl Benzene	9.367	91	312700	13.840	ppbv	100
59) m/p-Xylene	9.561	91	559970m	28.132	ppbv	
60) o-Xylene	9.975	91	277919	14.326	ppbv	99
61) Styrene	9.882	104	105876	14.068	ppbv	99
62) Isopropylbenzene	10.548	105	412478	13.534	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	186060	10.938	ppbv	99
64) n-propylbenzene	10.998	120	106028	13.560	ppbv	97
65) tert-Butylbenzene	11.542	119	378118	13.768	ppbv	99
66) Benzyl Chloride	11.626	91	25930	11.271	ppbv	99
67) sec-Butylbenzene	11.778	105	533436	13.311	ppbv	100
69) p-Isopropyltoluene	11.934	119	433960	13.793	ppbv	100
70) n-Butylbenzene	12.290	91	435228	13.769	ppbv	99
71) 2-Chlorotoluene	10.911	91	299922	13.557	ppbv	99
72) 4-Ethyltoluene	11.134	105	332097	14.156	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	286930	13.965	ppbv	98
74) 1,2,4-Trimethylbenzene	11.545	105	317547	13.342	ppbv #	79
75) 1,3-Dichlorobenzene	11.616	146	181271	11.380	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	180588	11.781	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	178366	10.745	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	115209	9.776	ppbv	99
79) Naphthalene	13.523	128	241512	13.776	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	56888	8.767	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	107489	11.062	ppbv	99

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

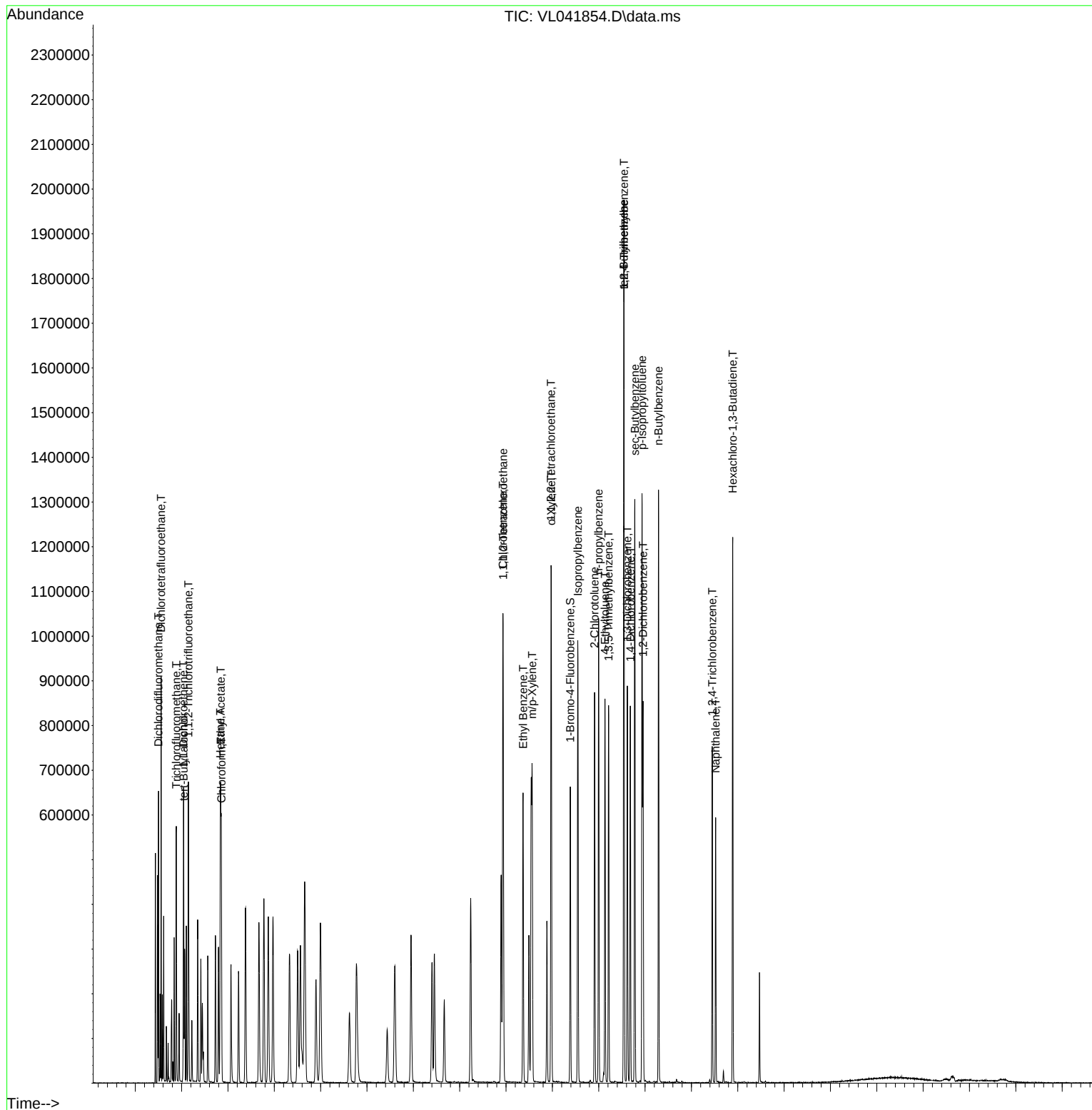
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041854.D
Acq On : 07 Jan 2025 20:36
Operator : SY/MD
Sample : VL0107ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0107ABS01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025
Supervised By : Mahesh Dadoda 01/09/2025

Quant Time: Jan 08 03:58:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041855.D
 Acq On : 07 Jan 2025 21:30
 Operator : SY/MD
 Sample : VL0107ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0107ABS02

Quant Time: Jan 08 03:59:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Jan 08 03:26:12 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	107106	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	243780	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	206717	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	181716	10.264	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.600%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	175443	9.983	ppbv	100
3) Chlorodifluoromethane	1.479	51	170535	10.156	ppbv	100
4) Chloromethane	1.538	50	74022	10.243	ppbv	98
5) Vinyl Chloride	1.583	62	67444	9.253	ppbv	99
6) Bromomethane	1.674	94	29563	9.469	ppbv	91
7) Chloroethane	1.709	64	28013	9.984	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	152410	10.052	ppbv	100
9) Propene	1.486	41	64043	10.955	ppbv	99
10) Heptane	5.001	43	180674	12.511	ppbv	99
11) Trichlorofluoromethane	1.884	101	175329	9.811	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	133598	10.038	ppbv	99
13) Ethanol	1.725	45	4030	5.248	ppbv	85
14) Bromoethene	1.787	108	45909	10.537	ppbv	97
15) Acetone	1.842	43	167871	8.513	ppbv	97
16) 1,3-Butadiene	1.612	39	79283	10.253	ppbv	100
17) tert-Butyl alcohol	2.046	59	176102	10.307	ppbv	99
18) 1,1-Dichloroethene	2.039	96	57220	10.269	ppbv	96
19) Isopropyl Alcohol	1.890	45	86872	9.385	ppbv #	1
20) Methylene Chloride	2.068	84	50633	8.982	ppbv	93
21) Allyl Chloride	2.104	41	112062	11.032	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	62547	10.043	ppbv	96
23) Vinyl Acetate	2.470	43	67272	10.969	ppbv	96
24) 1,1-Dichloroethane	2.418	63	136957	10.048	ppbv	99
25) Ethyl Acetate	2.845	43	374548	11.327	ppbv	99
26) Hexane	2.839	57	138581	12.075	ppbv	98
27) Carbon Disulfide	2.159	76	133209	12.230	ppbv	97
28) Methyl tert-Butyl Ether	2.447	73	85892	9.930	ppbv	99
29) Chloroform	2.858	83	211442	9.917	ppbv	99
30) Cyclohexane	3.875	84	107422	12.343	ppbv	100
31) cis-1,2-Dichloroethene	2.732	61	131506	11.132	ppbv	97
32) 1,1,1-Trichloroethane	3.383	97	194205	10.051	ppbv	99
34) 2-Butanone	2.567	43	215107	11.202	ppbv	98
35) Carbon Tetrachloride	3.777	117	200923	10.905	ppbv	97
36) Benzene	3.671	78	263818	11.328	ppbv	96
37) 1,2-Dichloroethane	3.230	62	164076	10.717	ppbv	100
38) Trichloroethene	4.567	130	98835	11.036	ppbv	97
39) 1,2-Dichloropropane	4.331	63	97273	10.798	ppbv	96
40) 1,4-Dioxane	4.603	88	42263	12.121	ppbv #	99
41) Tetrahydrofuran	3.065	42	115504	12.768	ppbv	99
42) Bromodichloromethane	4.509	83	207472	11.555	ppbv	99
43) Methyl Methacrylate	4.901	69	94976	12.987	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	473286	12.335	ppbv	100
45) t-1,3-Dichloropropene	6.441	75	85389	11.960	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041855.D
 Acq On : 07 Jan 2025 21:30
 Operator : SY/MD
 Sample : VL0107ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0107ABS02

Manual Integrations
 APPROVED

Quant Time: Jan 08 03:59:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M

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

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 01/09/2025
 Supervised By : Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	113483	12.071	ppbv	99
47) 1,1,2-Trichloroethane	6.603	97	101788	10.696	ppbv	96
48) Dibromochloromethane	7.406	129	146766	12.101	ppbv	99
49) Bromoform	9.497	173	122385	12.591	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	294840	13.276	ppbv	99
51) 2-Hexanone	7.454	43	231768	13.791	ppbv	98
52) Tetrachloroethene	8.241	164	80623	11.675	ppbv	96
53) Toluene	6.956	91	269294	12.992	ppbv	99
54) 1,2-Dibromoethane	7.671	107	132314	11.340	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.940	131	128117	10.874	ppbv	99
57) Chlorobenzene	8.937	112	227702	10.543	ppbv	98
58) Ethyl Benzene	9.370	91	387745	13.763	ppbv	100
59) m/p-Xylene	9.565	91	666741m	26.861	ppbv	
60) o-Xylene	9.979	91	332864	13.760	ppbv	100
61) Styrene	9.885	104	135001	14.385	ppbv	99
62) Isopropylbenzene	10.552	105	493367	12.982	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	221419	10.438	ppbv	99
64) n-propylbenzene	11.002	120	125412	12.863	ppbv	96
65) tert-Butylbenzene	11.542	119	446167	13.028	ppbv	100
66) Benzyl Chloride	11.630	91	31125	10.849	ppbv	98
67) sec-Butylbenzene	11.778	105	636199	12.731	ppbv	99
69) p-Isopropyltoluene	11.937	119	517542	13.191	ppbv	99
70) n-Butylbenzene	12.293	91	508944	12.912	ppbv	99
71) 2-Chlorotoluene	10.914	91	361026	13.087	ppbv	100
72) 4-Ethyltoluene	11.138	105	395463	13.518	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	340147	13.276	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	378800	12.763	ppbv #	85
75) 1,3-Dichlorobenzene	11.620	146	216345	10.891	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	213108	11.149	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	211771	10.231	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	132080	8.988	ppbv	99
79) Naphthalene	13.526	128	285850	13.075	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	77638	9.594	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	128757	10.626	ppbv	100

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

