

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043178.D
 Acq On : 06 Nov 2025 21:08
 Operator : SY/MD
 Sample : Q3557-05 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-SG-2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:29:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	131405	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	358615	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	303524	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	236795	10.037	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.400%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	9907	0.530	ppbv	99
3) Chlorodifluoromethane	1.479	51	2087m	0.103	ppbv	
9) Propene	1.486	41	2376	0.265	ppbv #	15
11) Trichlorofluoromethane	1.877	101	2805	0.154	ppbv	90
13) Ethanol	1.722	45	18184	5.484	ppbv	92
15) Acetone	1.835	43	595518	33.623	ppbv	99
17) tert-Butyl alcohol	2.039	59	12433	0.511	ppbv #	94
19) Isopropyl Alcohol	1.887	45	8050	0.730	ppbv #	36
20) Methylene Chloride	2.062	84	3877	0.554	ppbv #	89
26) Hexane	2.826	57	5694	0.281	ppbv #	42
34) 2-Butanone	2.557	43	32842	1.362	ppbv	98
35) Carbon Tetrachloride	3.751	117	1091m	0.042	ppbv	
41) Tetrahydrofuran	3.065	42	1517	0.113	ppbv #	86
52) Tetrachloroethene	8.215	164	1364m	0.112	ppbv	

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

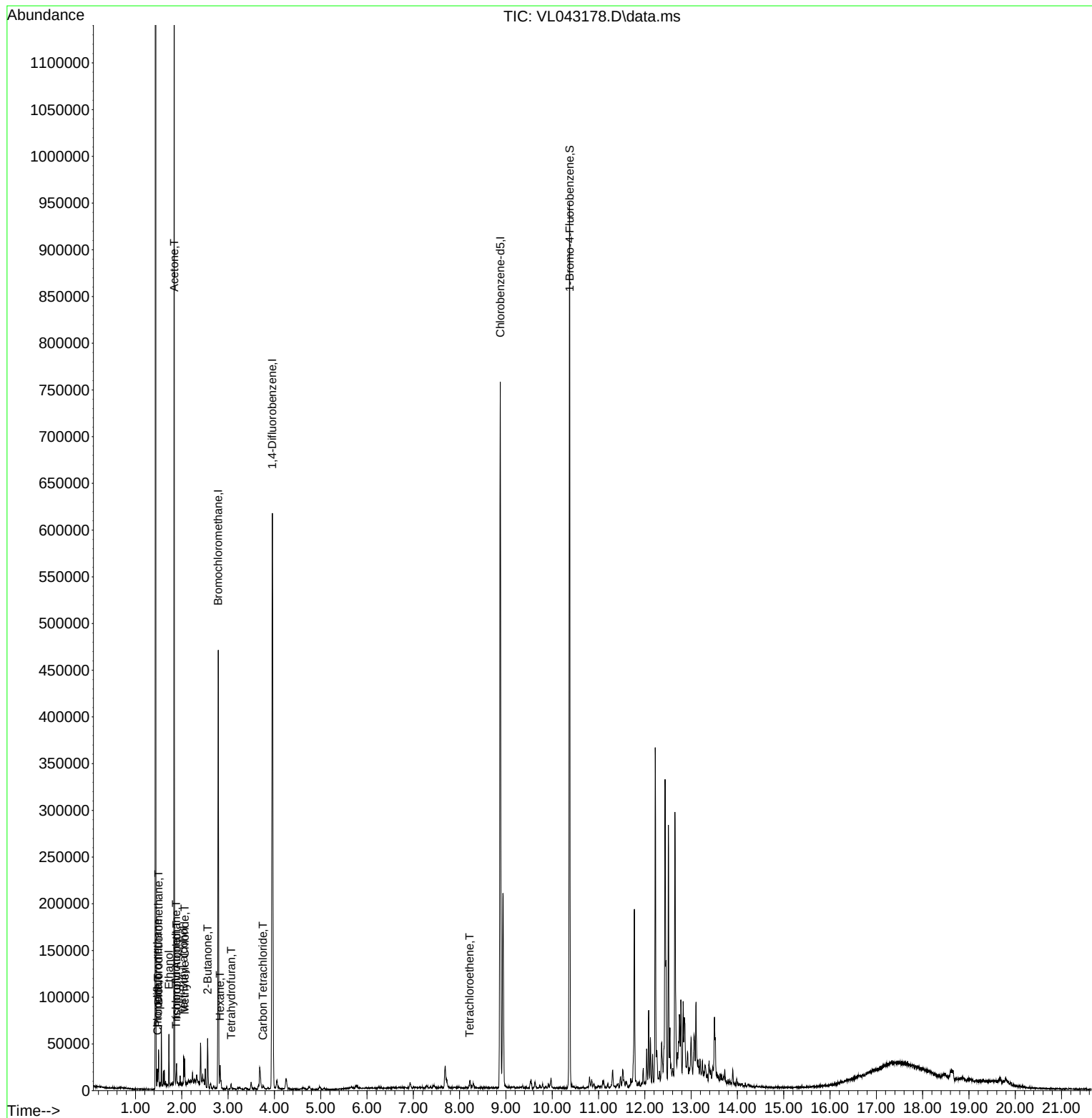
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043178.D
Acq On : 06 Nov 2025 21:08
Operator : SY/MD
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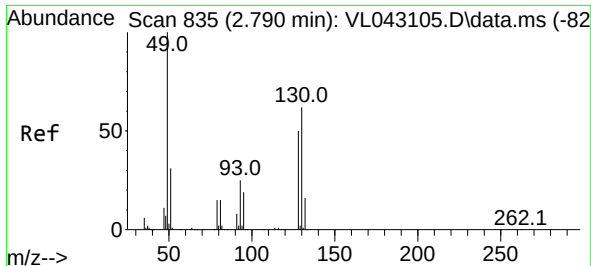
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2

Quant Time: Nov 07 00:29:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

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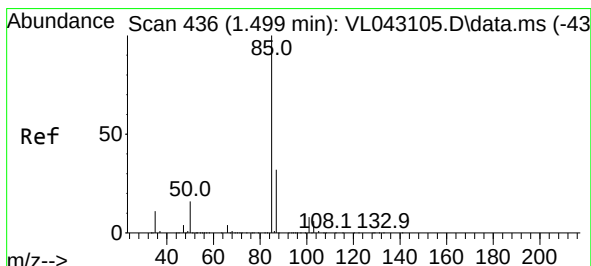
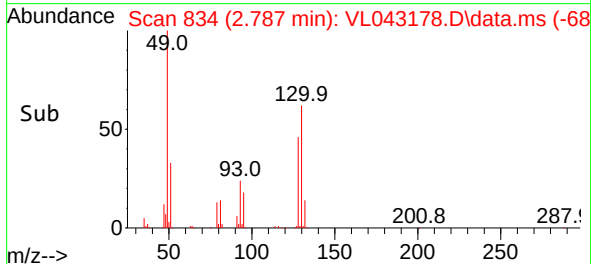
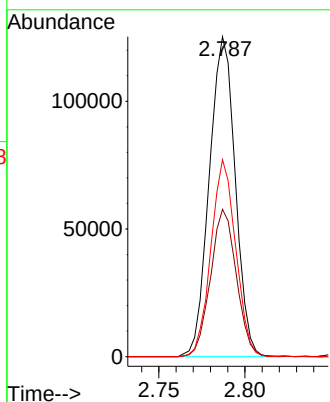
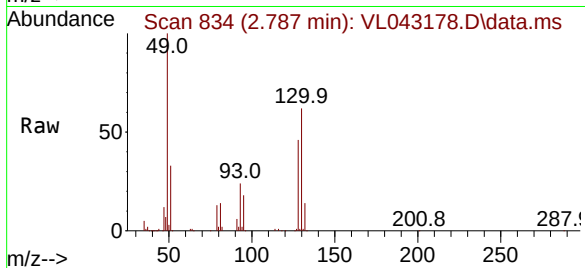
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Instrument :
MSVOA_L
ClientSampleId :
141-SG-2

Tgt Ion: 49 Resp: 13140
Ion Ratio Lower Upper
49 100
128 45.8 24.4 73.4
130 58.7 31.0 93.0

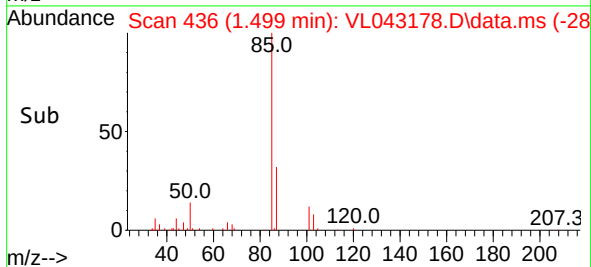
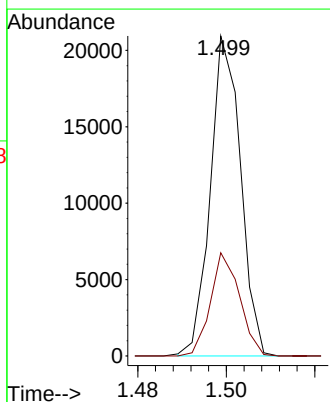
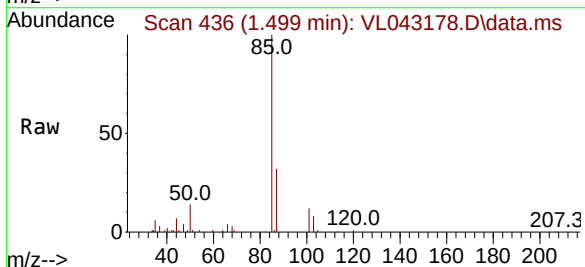
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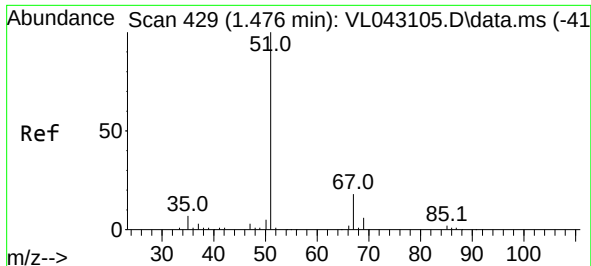
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.530 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

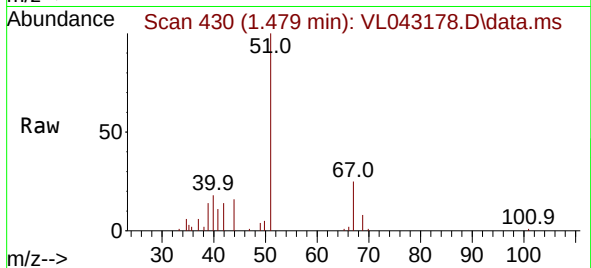
Tgt Ion: 85 Resp: 9907
Ion Ratio Lower Upper
85 100
87 32.3 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.103 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

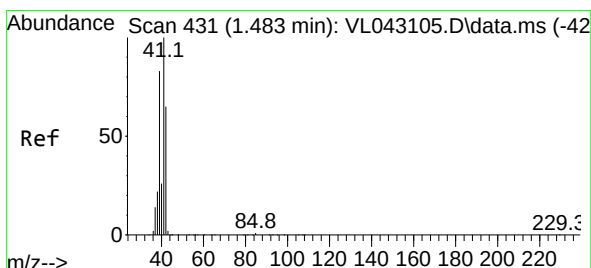
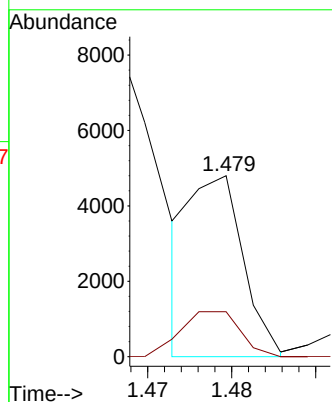
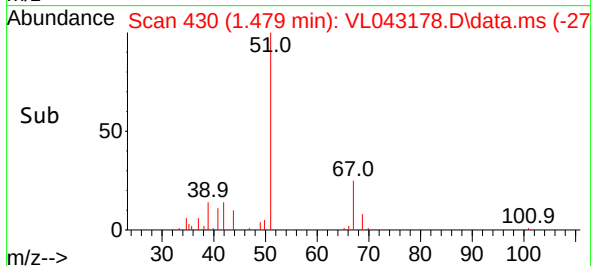
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2



Tgt Ion: 51 Resp: 208
Ion Ratio Lower Upper
51 100
67 28.7 15.1 22.7

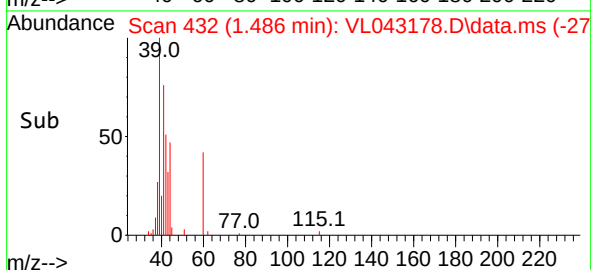
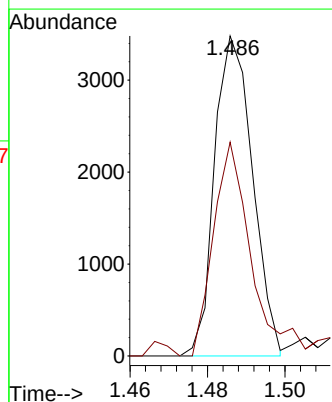
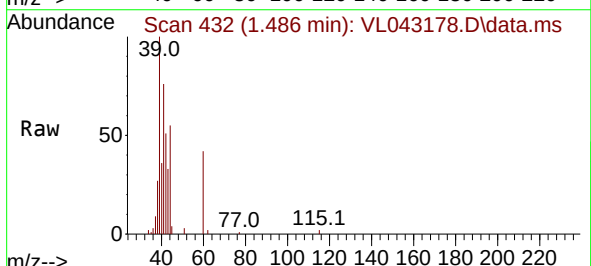
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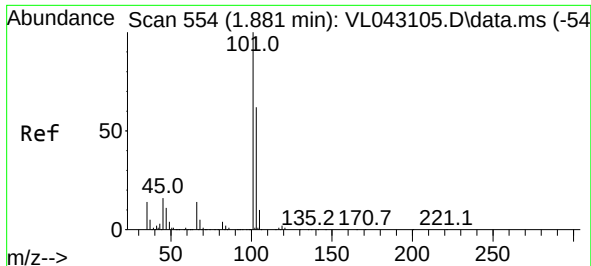
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#9
Propene
Concen: 0.265 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

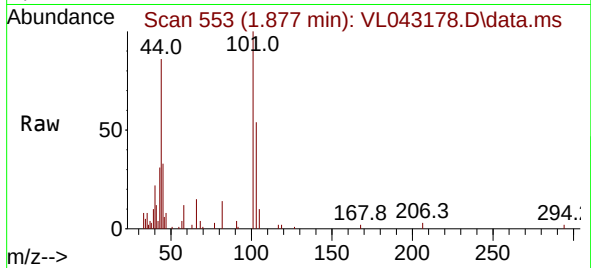
Tgt Ion: 41 Resp: 2376
Ion Ratio Lower Upper
41 100
42 0.0 55.1 82.7





#11
Trichlorofluoromethane
Concen: 0.154 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

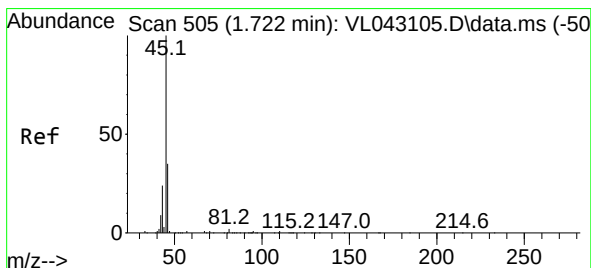
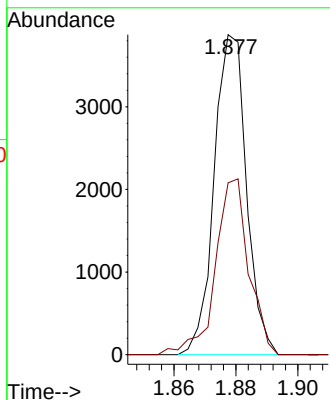
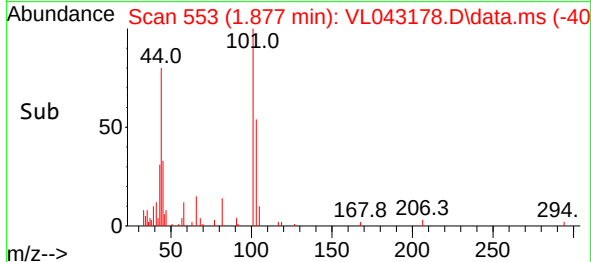
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2



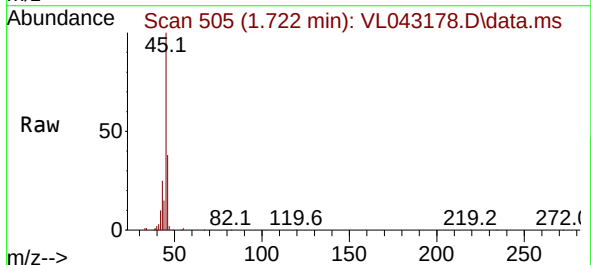
Tgt Ion:101 Resp: 280
Ion Ratio Lower Upper
101 100
103 53.7 49.3 73.9

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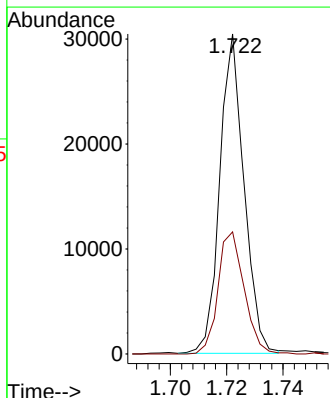
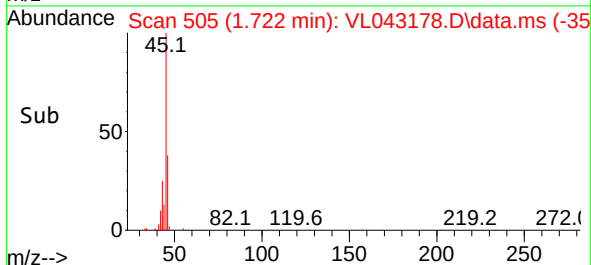
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

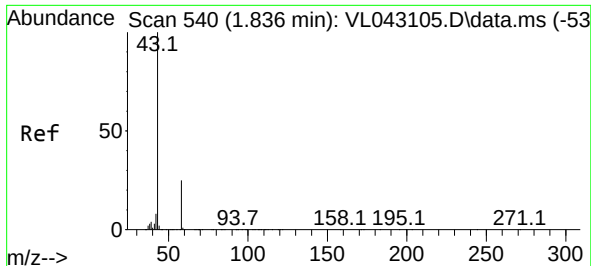


#13
Ethanol
Concen: 5.484 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08



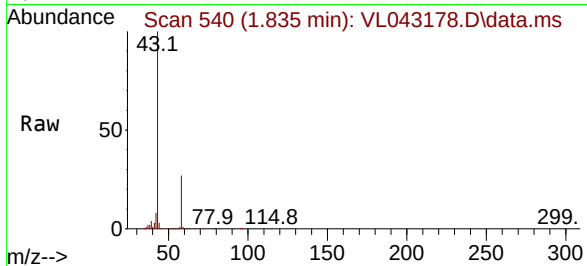
Tgt Ion: 45 Resp: 18184
Ion Ratio Lower Upper
45 100
46 41.4 14.7 58.9





#15
Acetone
Concen: 33.623 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

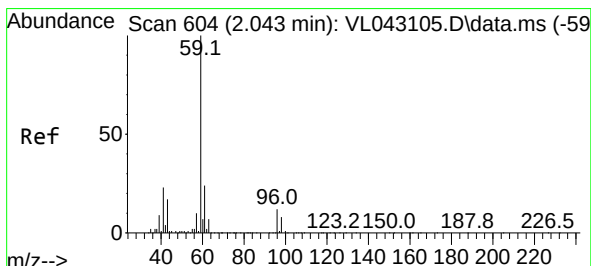
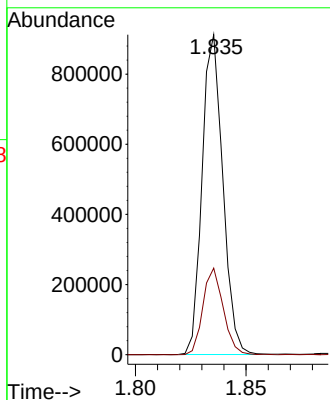
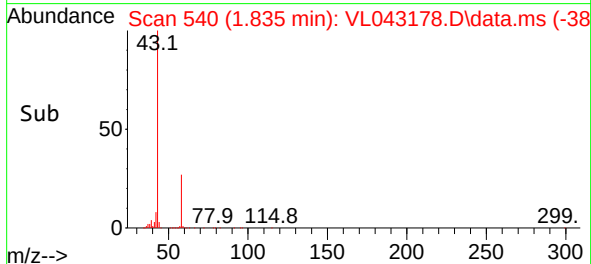
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2



Tgt Ion: 43 Resp: 595518
Ion Ratio Lower Upper
43 100
58 26.6 20.8 31.2

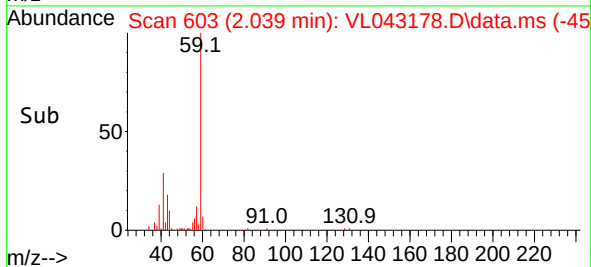
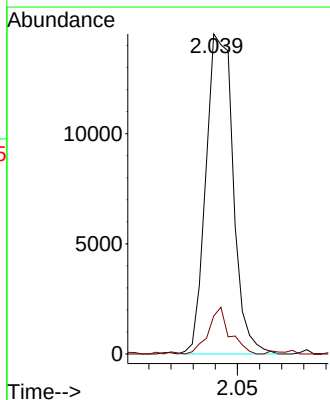
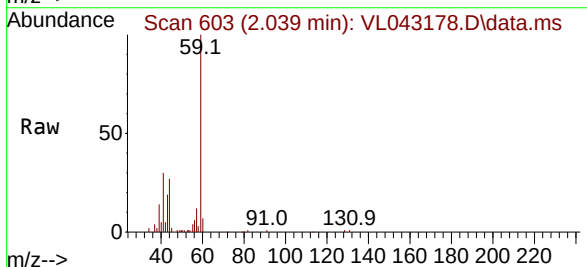
Manual Integrations
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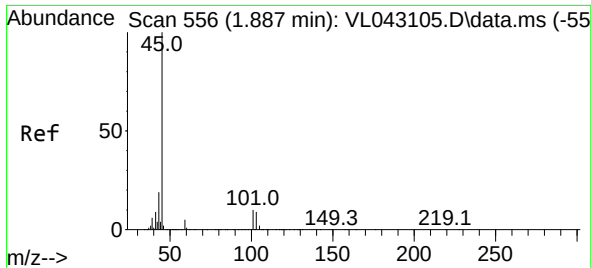
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#17
tert-Butyl alcohol
Concen: 0.511 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

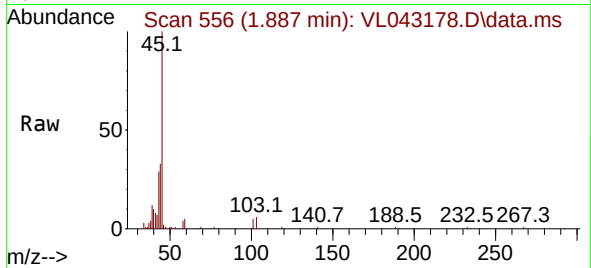
Tgt Ion: 59 Resp: 12433
Ion Ratio Lower Upper
59 100
57 12.6 8.2 12.4#





#19
Isopropyl Alcohol
Concen: 0.730 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

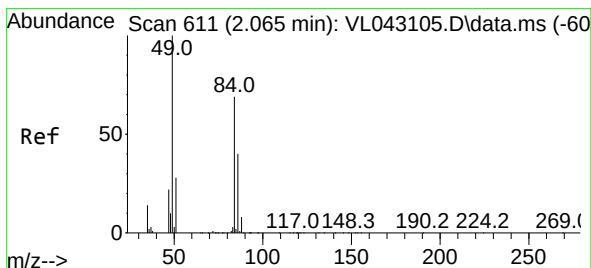
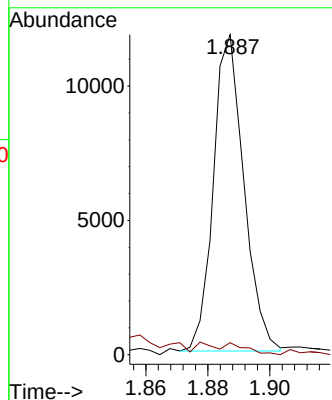
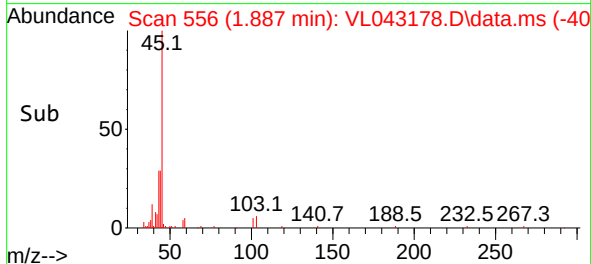
Instrument :
MSVOA_1
ClientSampleId :
141-SG-2



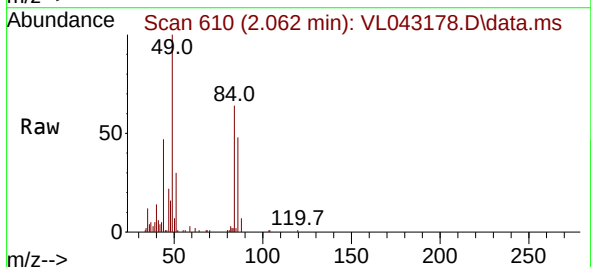
Tgt Ion: 45 Resp: 8050
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9

Manual Integrations
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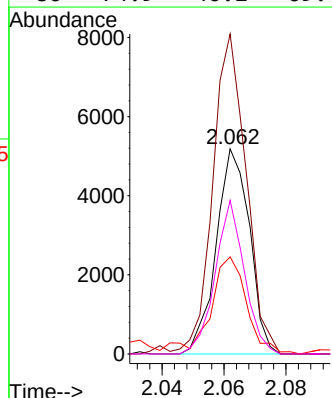
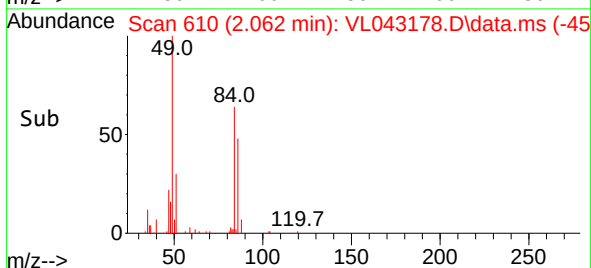
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

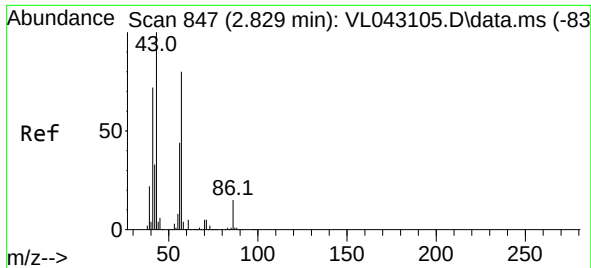


#20
Methylene Chloride
Concen: 0.554 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08



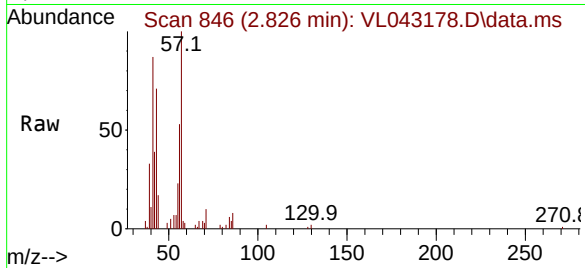
Tgt Ion: 84 Resp: 3877
Ion Ratio Lower Upper
84 100
49 156.0 116.6 175.0
51 46.3 34.8 52.2
86 74.9 46.2 69.4





#26
Hexane
Concen: 0.281 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

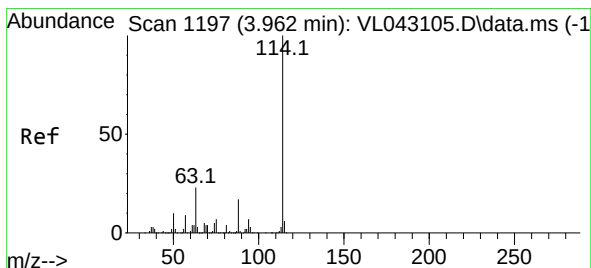
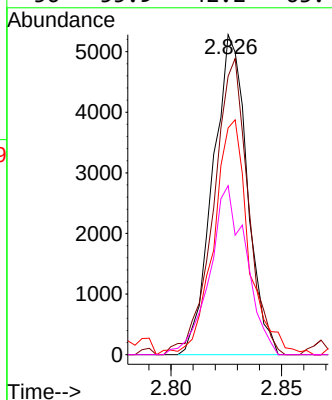
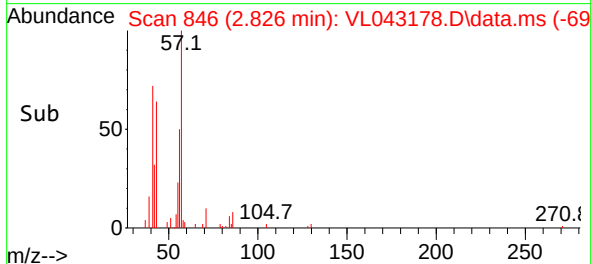
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2



Tgt Ion: 57 Resp: 5694
Ion Ratio Lower Upper
57 100
41 95.1 71.4 107.0
43 75.2 178.5 267.7
56 55.9 42.2 63.4

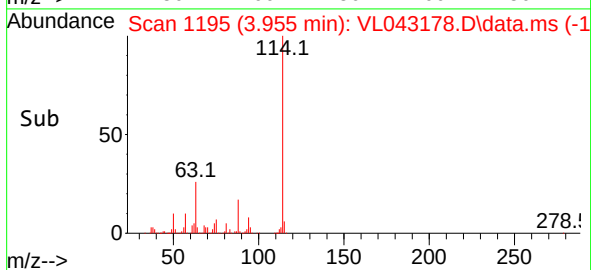
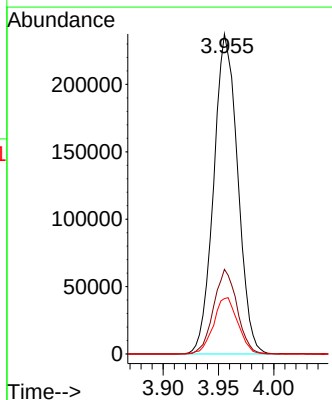
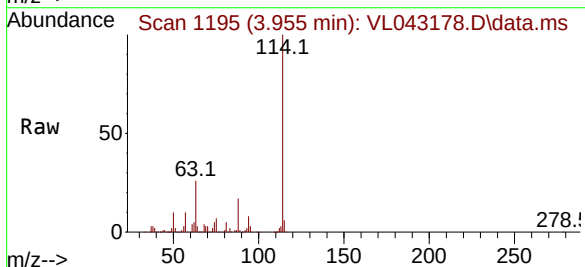
Manual Integrations
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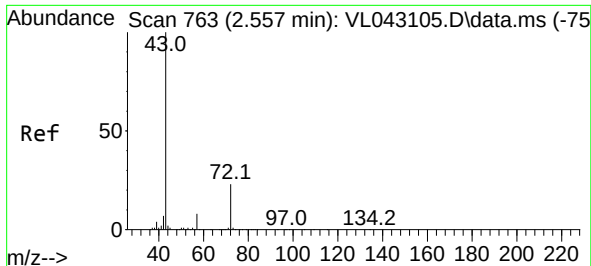
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

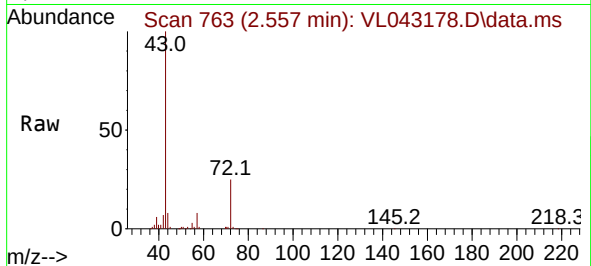
Tgt Ion:114 Resp: 358615
Ion Ratio Lower Upper
114 100
63 25.8 19.3 28.9
88 17.8 13.9 20.9





#34
2-Butanone
Concen: 1.362 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

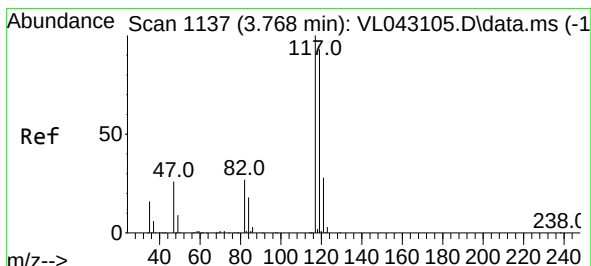
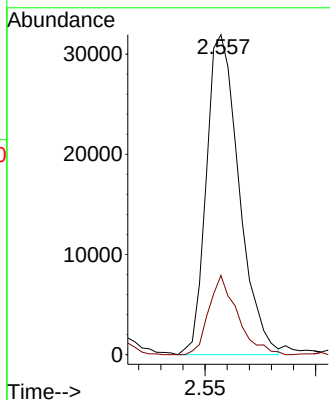
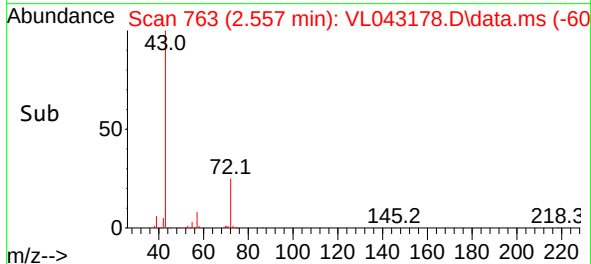
Instrument :
MSVOA_L
ClientSampleId :
141-SG-2



Tgt Ion: 43 Resp: 3284
Ion Ratio Lower Upper
43 100
72 22.0 18.4 27.6

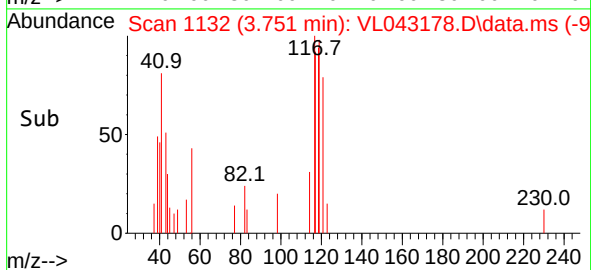
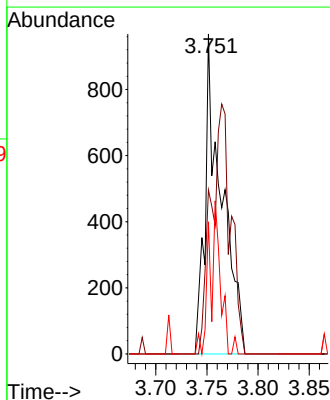
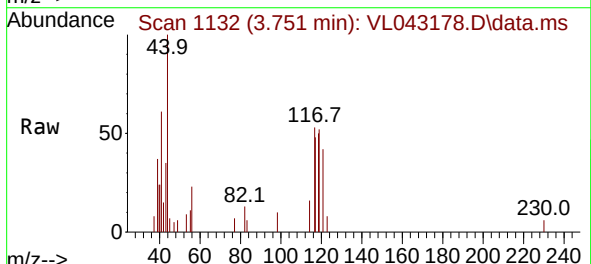
Manual Integrations
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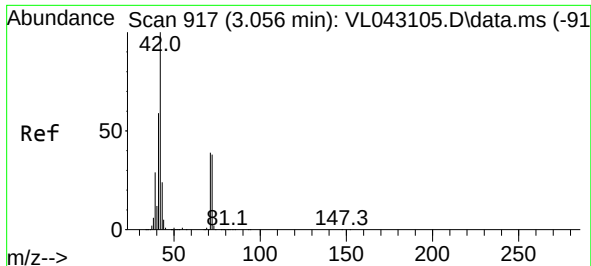
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.042 ppbv m
RT: 3.751 min Scan# 1132
Delta R.T. -0.016 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion:117 Resp: 1091
Ion Ratio Lower Upper
117 100
119 98.4 74.1 111.1
121 79.4 22.2 33.2#





#41

Tetrahydrofuran

Concen: 0.113 ppbv

RT: 3.065 min Scan# 917

Delta R.T. 0.009 min

Lab File: VL043178.D

Acq: 06 Nov 2025 21:08

Instrument :

MSVOA_1

ClientSampleId :

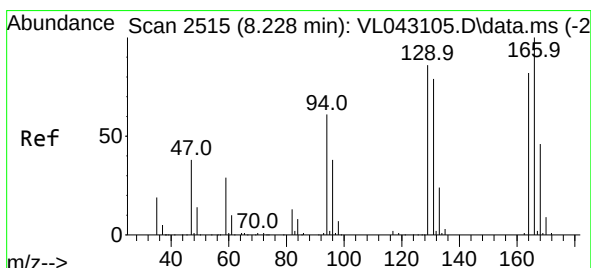
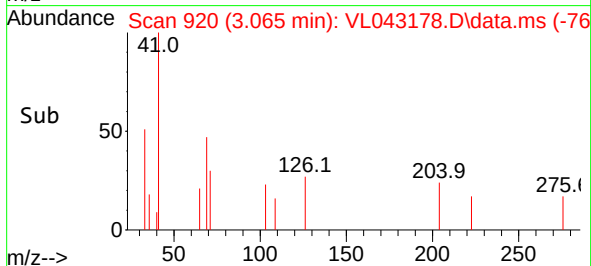
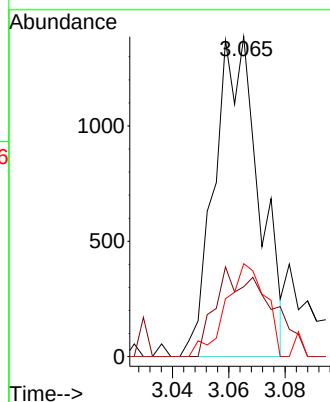
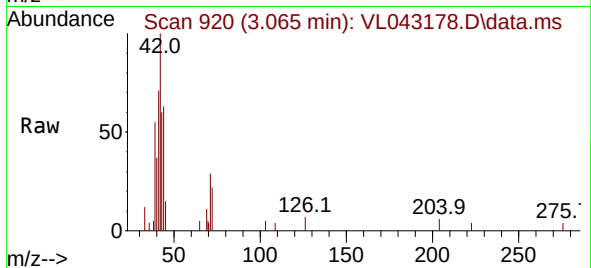
141-SG-2

Tgt Ion:	42	Resp:	151
Ion Ratio	Lower	Upper	
42	100		
72	33.4	31.3	46.9
71	27.2	30.4	45.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#52

Tetrachloroethene

Concen: 0.112 ppbv m

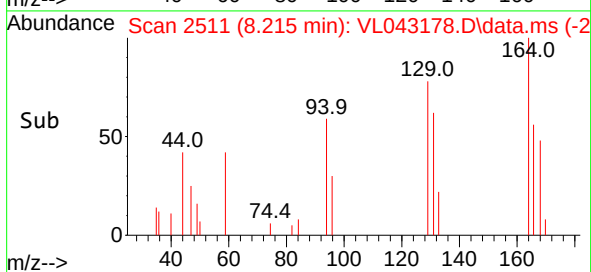
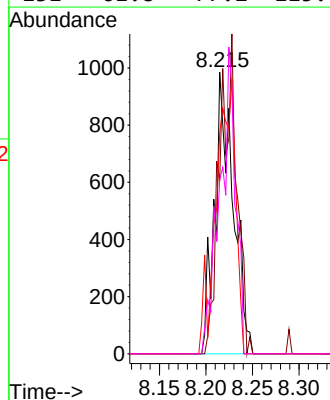
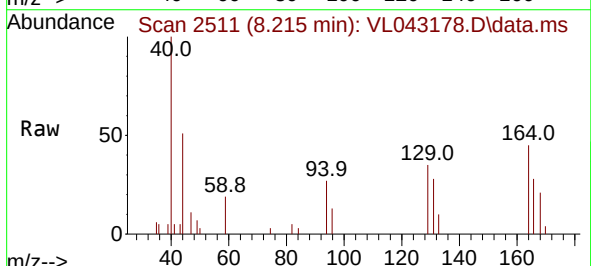
RT: 8.215 min Scan# 2511

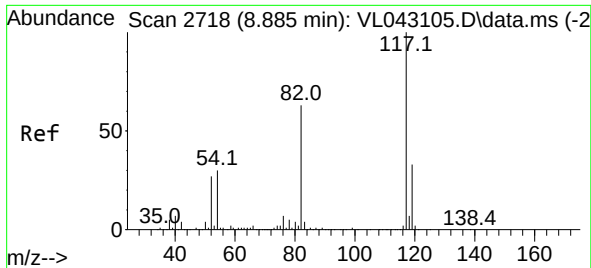
Delta R.T. -0.013 min

Lab File: VL043178.D

Acq: 06 Nov 2025 21:08

Tgt Ion:	164	Resp:	1364
Ion Ratio	Lower	Upper	
164	100		
166	61.5	97.6	146.4#
129	78.5	84.5	126.7#
131	61.8	77.2	115.8#





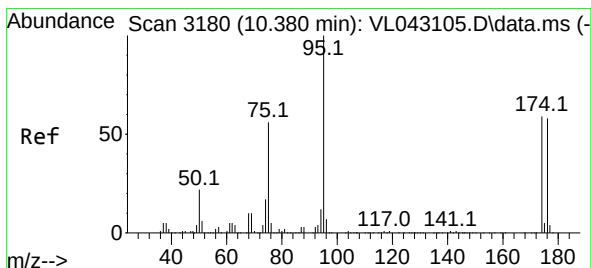
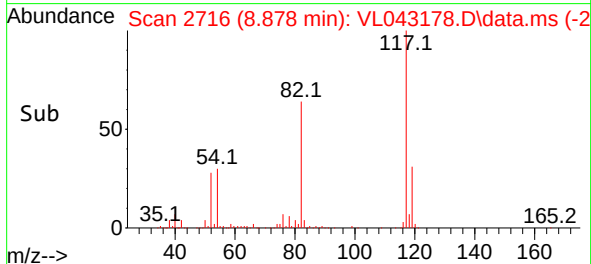
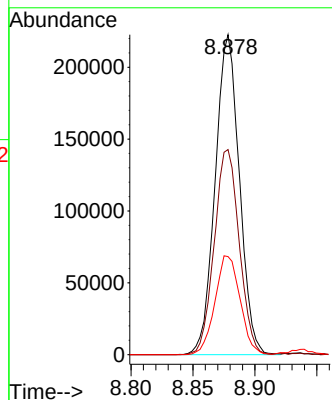
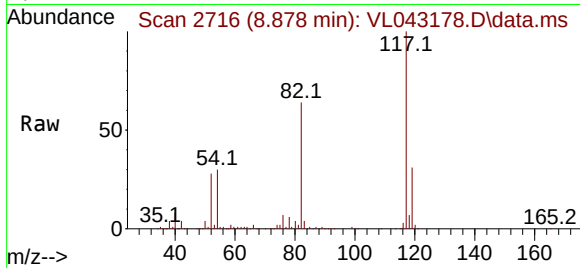
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Instrument :
MSVOA_L
ClientSampleId :
141-SG-2

Tgt Ion:117 Resp: 303524
Ion Ratio Lower Upper
117 100
82 66.5 53.8 80.8
119 32.1 25.4 38.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.037 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.007 min
Lab File: VL043178.D
Acq: 06 Nov 2025 21:08

Tgt Ion: 95 Resp: 236795
Ion Ratio Lower Upper
95 100
174 63.5 48.3 72.5
175 4.6 3.8 5.8

