

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120225\
 Data File : VL043297.D
 Acq On : 02 Dec 2025 14:13
 Operator : SY/MD
 Sample : Q3744-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/03/2025
 Supervised By :Mahesh Dadoda 12/03/2025

Quant Time: Dec 03 00:06:40 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	126695	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	324631	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.898	117	245976	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	174187	9.661	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	8894	0.498	ppbv	96
3) Chlorodifluoromethane	1.483	51	4683m	0.266	ppbv	
4) Chloromethane	1.541	50	3081	0.461	ppbv	99
9) Propene	1.495	41	11018	1.476	ppbv #	1
11) Trichlorofluoromethane	1.887	101	4667	0.270	ppbv	90
13) Ethanol	1.732	45	22363	8.522	ppbv	100
15) Acetone	1.845	43	46253	2.628	ppbv	92
19) Isopropyl Alcohol	1.897	45	10365	1.042	ppbv #	6
20) Methylene Chloride	2.075	84	6739	0.558	ppbv	92
26) Hexane	2.839	57	8694	0.522	ppbv #	45
34) 2-Butanone	2.573	43	3262	0.142	ppbv	95
35) Carbon Tetrachloride	3.784	117	2057m	0.083	ppbv	
36) Benzene	3.674	78	8289	0.267	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	7453m	0.140	ppbv	
53) Toluene	6.956	91	29890	0.812	ppbv	96
59) m/p-Xylene	9.545	91	7168m	0.189	ppbv	

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

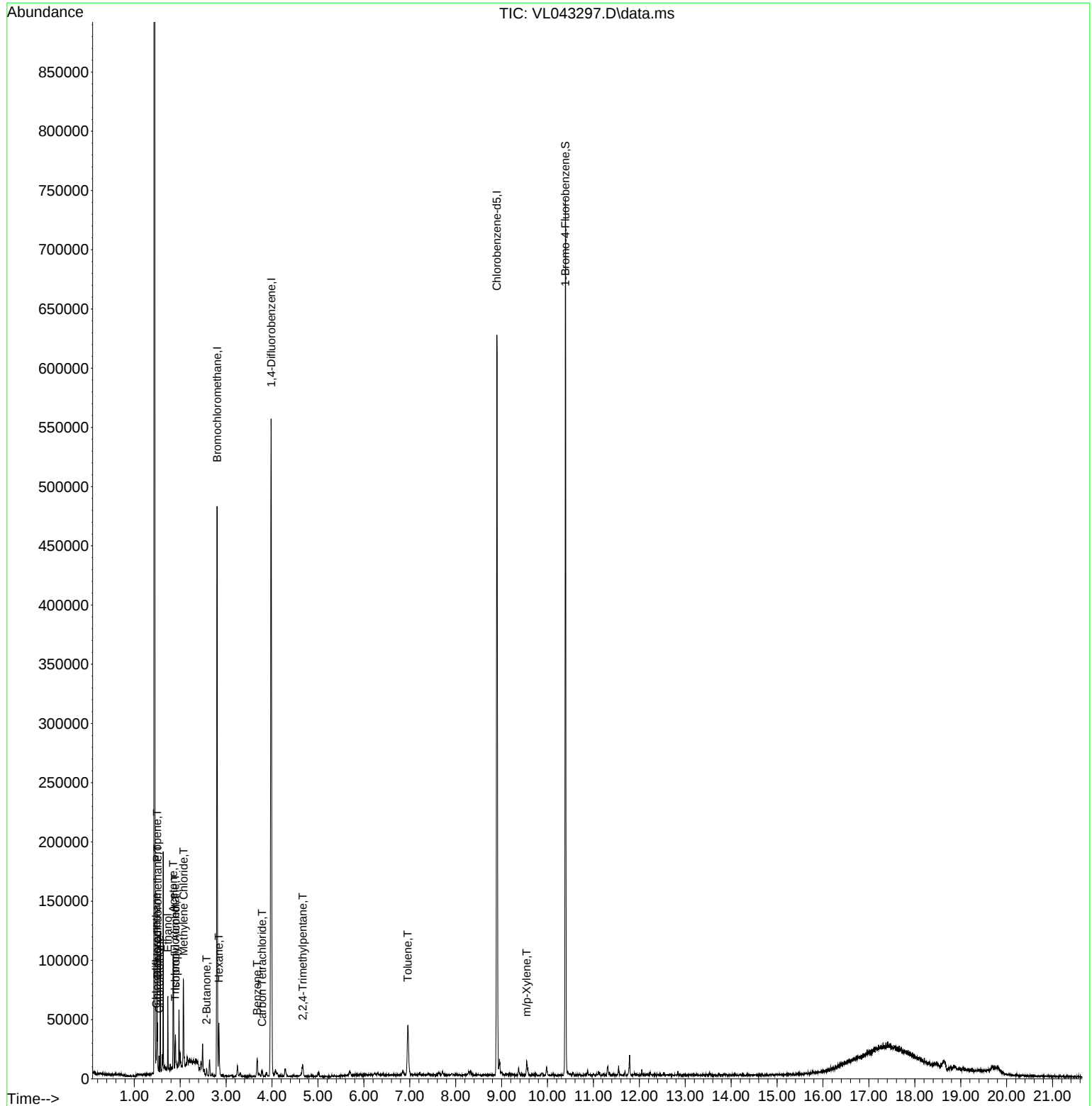
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120225\
Data File : VL043297.D
Acq On : 02 Dec 2025 14:13
Operator : SY/MD
Sample : Q3744-02DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

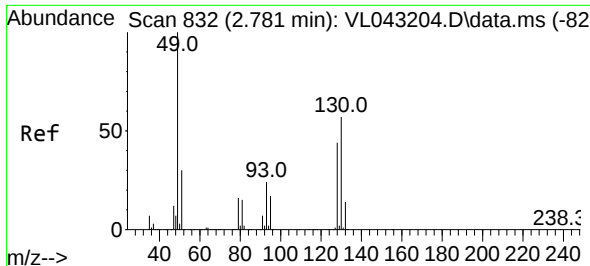
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Dec 03 00:06:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

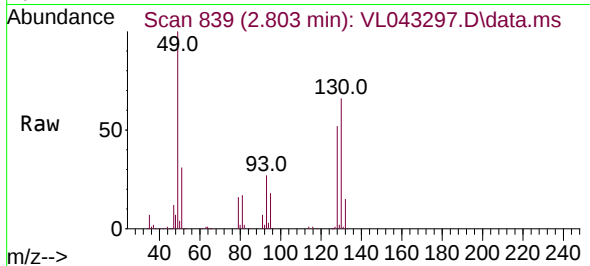
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 832
Delta R.T. 0.022 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

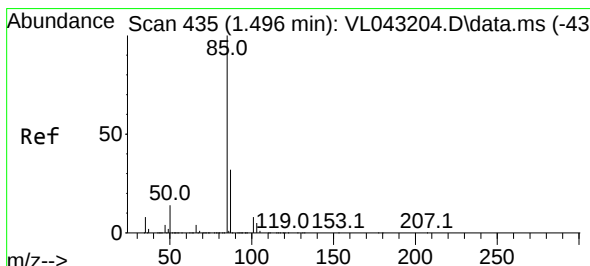
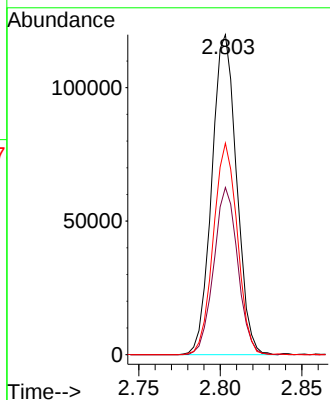
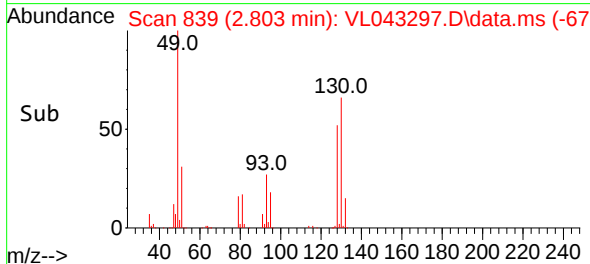
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 126695
Ion Ratio Lower Upper
49 100
128 50.5 23.0 69.0
130 64.0 29.9 89.7

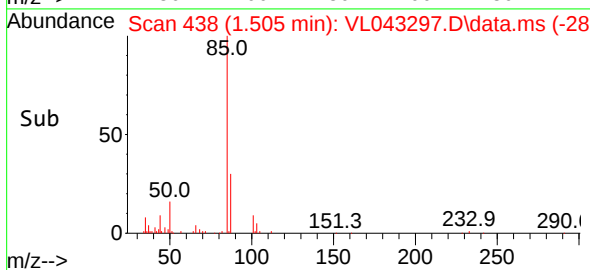
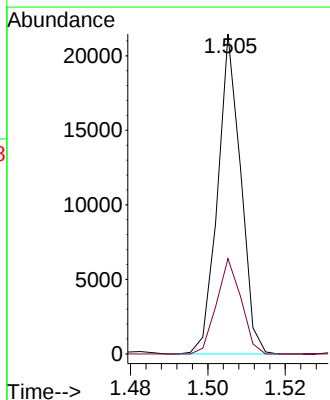
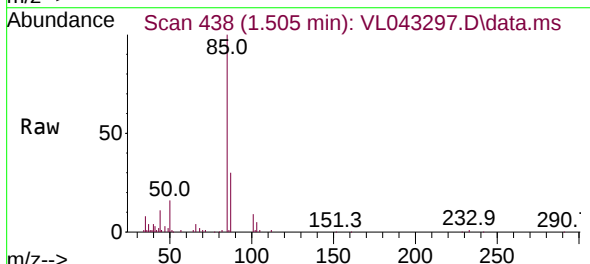
Manual Integrations
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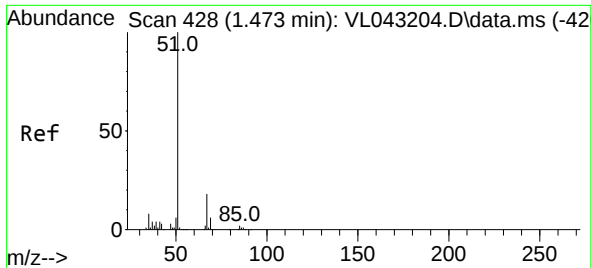
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#2
Dichlorodifluoromethane
Concen: 0.498 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.009 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

Tgt Ion: 85 Resp: 8894
Ion Ratio Lower Upper
85 100
87 29.8 25.4 38.2





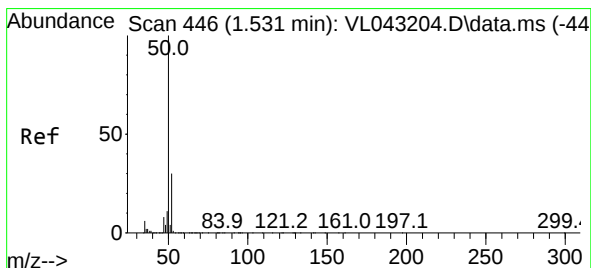
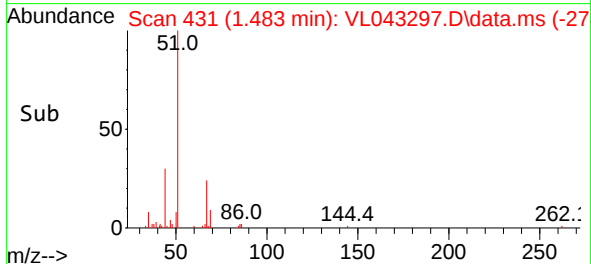
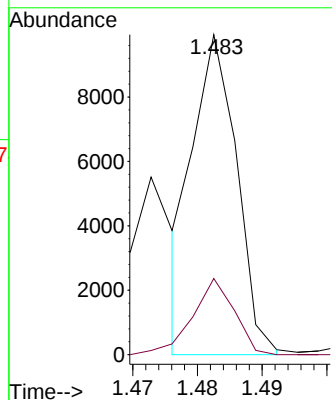
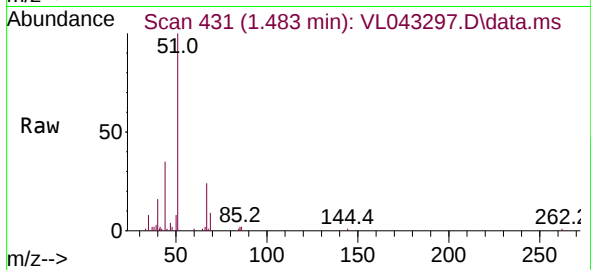
#3
Chlorodifluoromethane
Concen: 0.266 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. 0.009 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 51 Resp: 4683
Ion Ratio Lower Upper
51 100
67 22.7 14.9 22.3

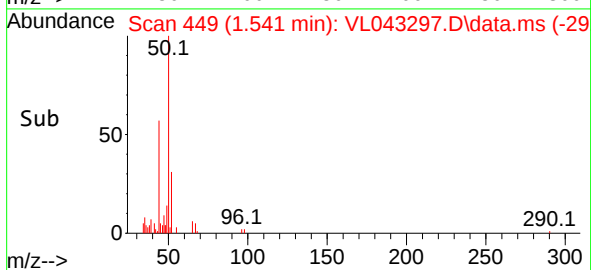
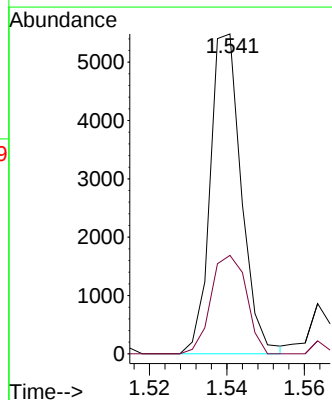
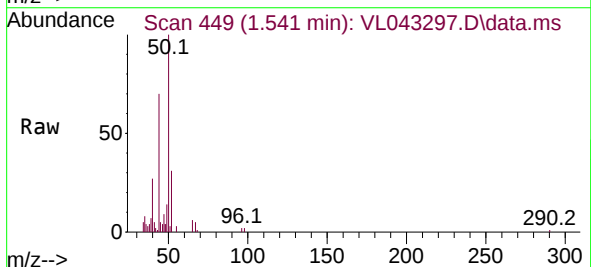
Manual Integrations
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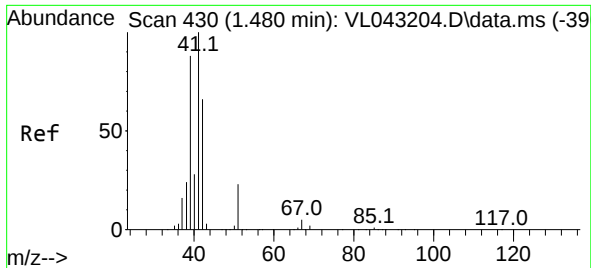
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#4
Chloromethane
Concen: 0.461 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.009 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

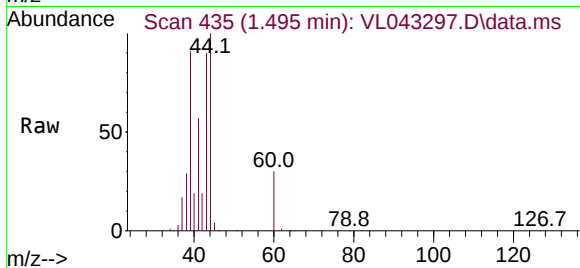
Tgt Ion: 50 Resp: 3081
Ion Ratio Lower Upper
50 100
52 30.8 24.1 36.1





#9
Propene
Concen: 1.476 ppbv
RT: 1.495 min Scan# 431
Delta R.T. 0.016 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

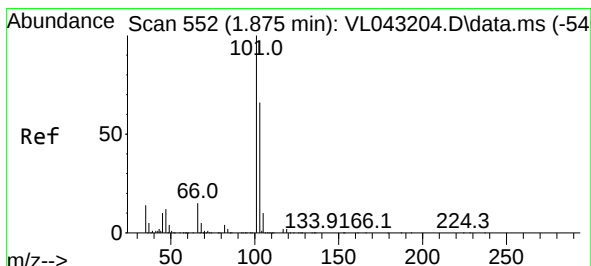
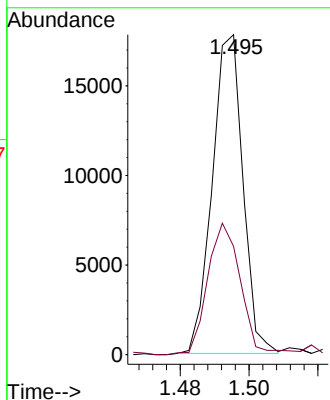
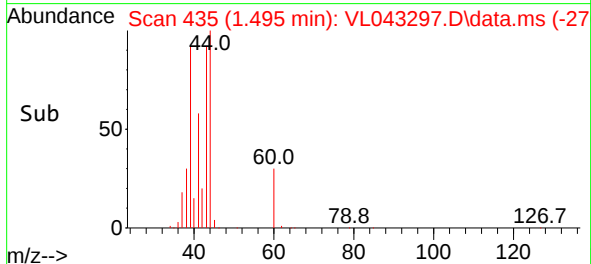
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 41 Resp: 11018
Ion Ratio Lower Upper
41 100
42 46.4 3.7 5.5

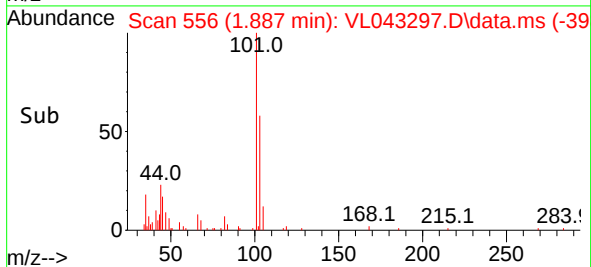
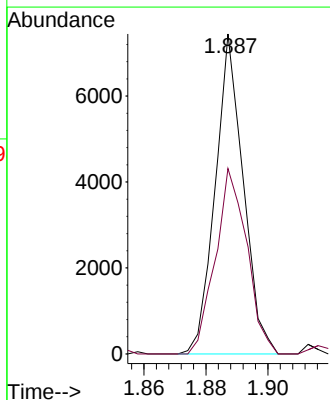
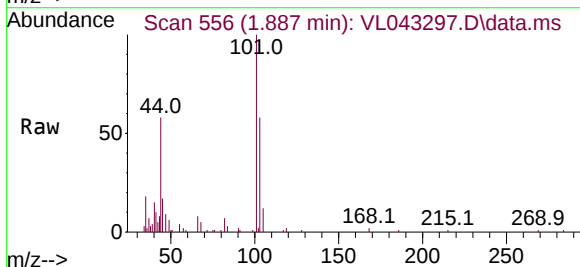
Manual Integrations
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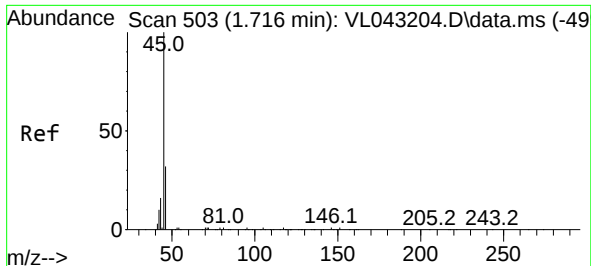
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#11
Trichlorofluoromethane
Concen: 0.270 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.013 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

Tgt Ion:101 Resp: 4667
Ion Ratio Lower Upper
101 100
103 57.9 52.6 79.0





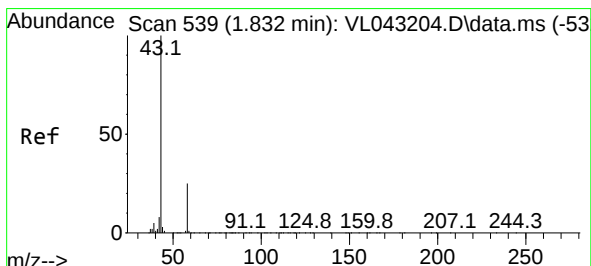
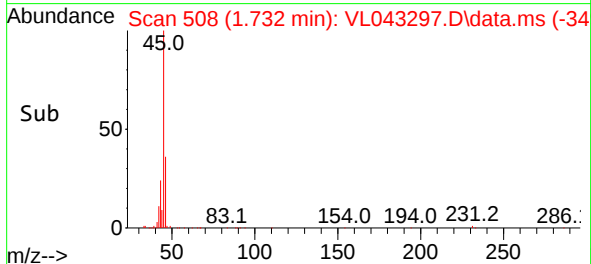
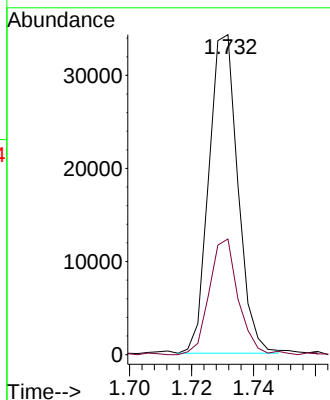
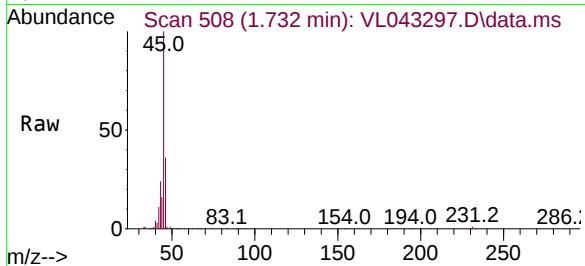
#13
Ethanol
Concen: 8.522 ppbv
RT: 1.732 min Scan# 503
Delta R.T. 0.016 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 45 Resp: 22363
Ion Ratio Lower Upper
45 100
46 37.2 15.0 59.8

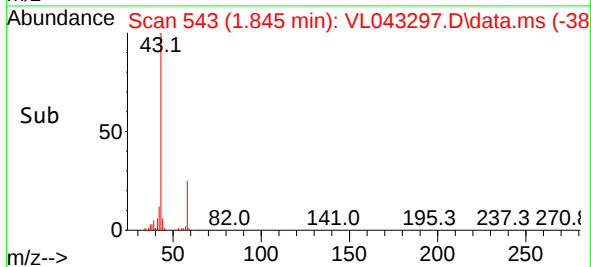
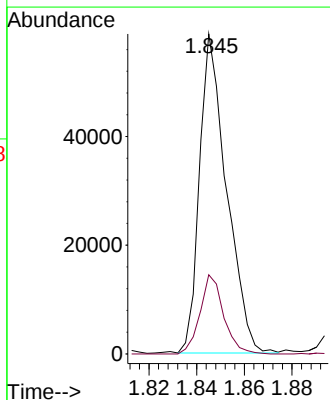
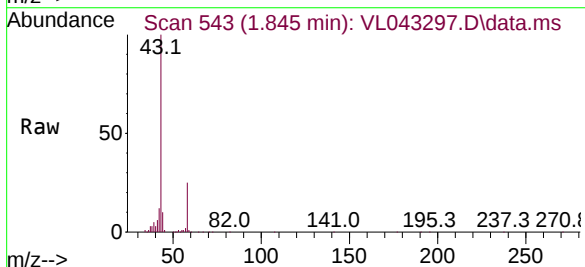
Manual Integrations
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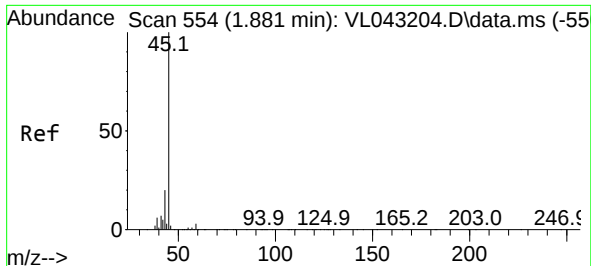
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#15
Acetone
Concen: 2.628 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

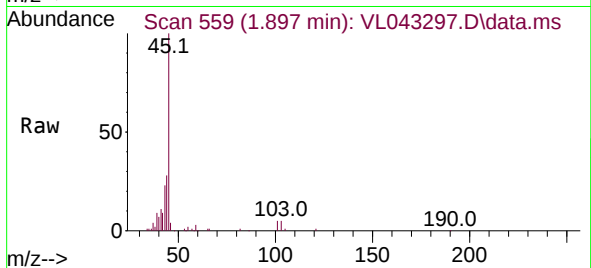
Tgt Ion: 43 Resp: 46253
Ion Ratio Lower Upper
43 100
58 21.6 20.7 31.1





#19
Isopropyl Alcohol
Concen: 1.042 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.016 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

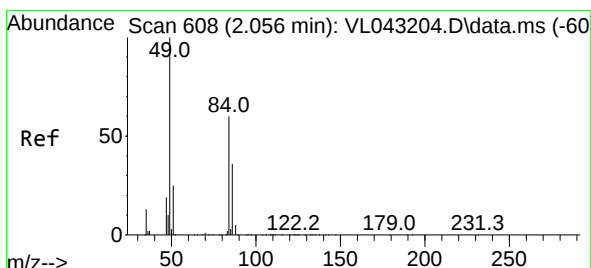
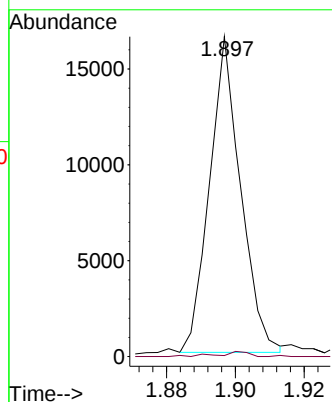
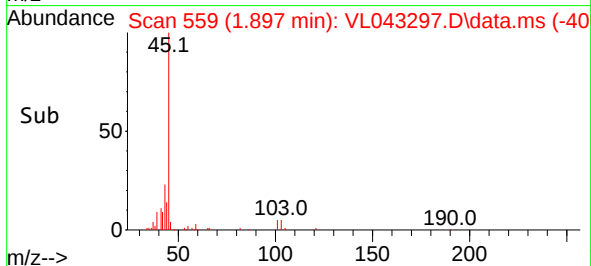
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



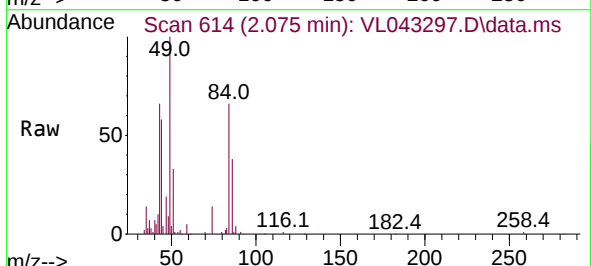
Tgt Ion: 45 Resp: 10365
Ion Ratio Lower Upper
45 100
58 96.4 31.3 46.9

Manual Integrations
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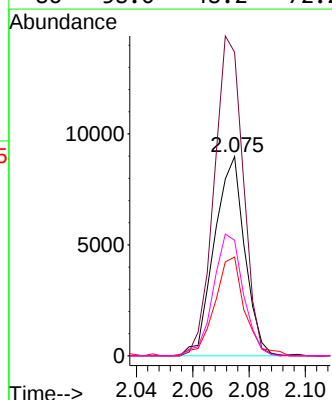
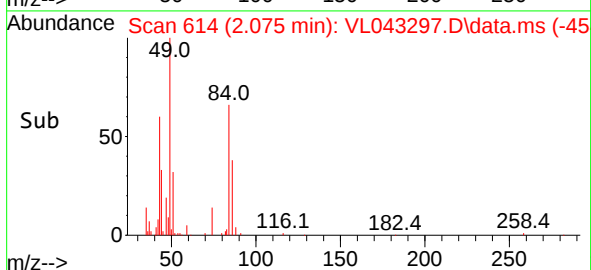
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

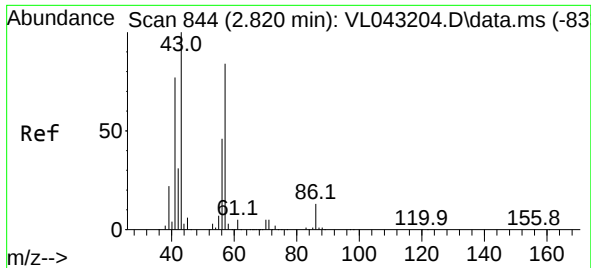


#20
Methylene Chloride
Concen: 0.558 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.019 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13



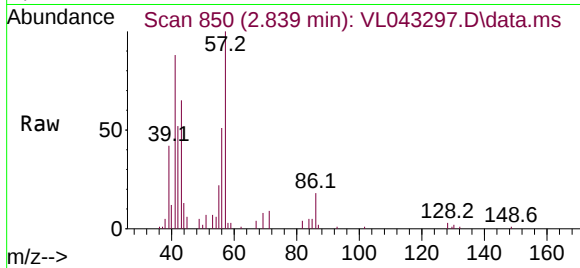
Tgt Ion: 84 Resp: 6739
Ion Ratio Lower Upper
84 100
49 152.4 132.9 199.3
51 48.8 34.8 52.2
86 58.0 48.2 72.2





#26
Hexane
Concen: 0.522 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

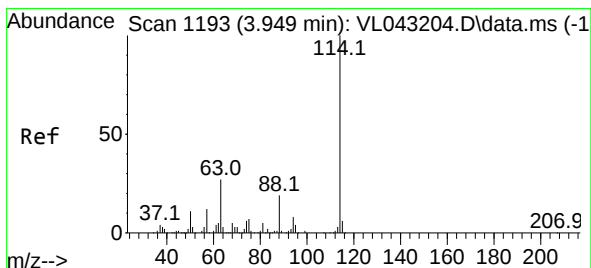
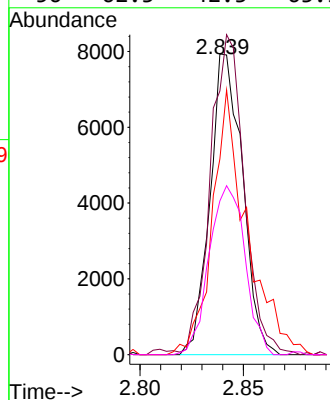
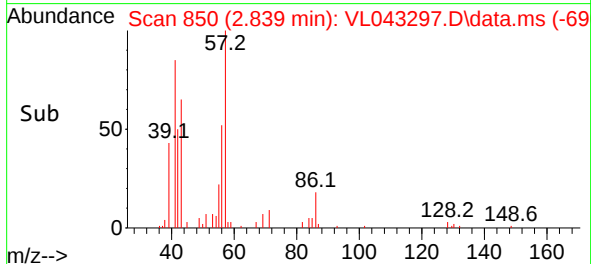
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



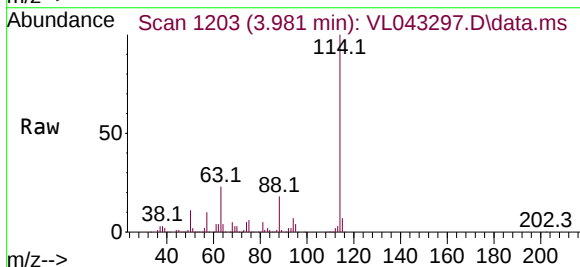
Tgt Ion: 57 Resp: 8694
Ion Ratio Lower Upper
57 100
41 112.2 74.6 111.8
43 93.3 179.0 268.4
56 62.3 42.3 63.5

Manual Integrations
APPROVED

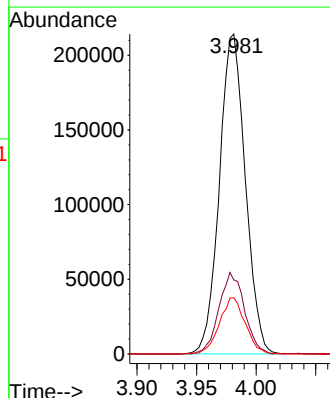
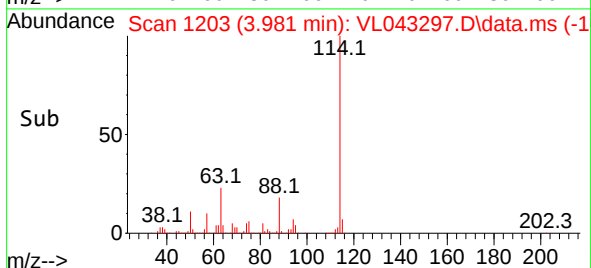
Reviewed By :Semsettin Yesilyurt 12/03/2025
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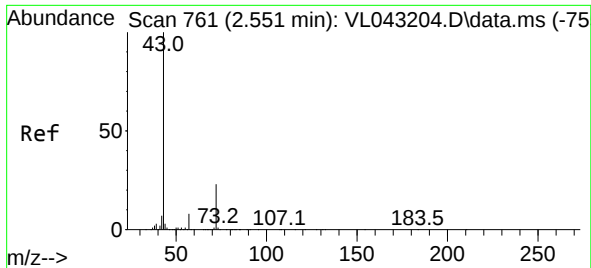


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.032 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13



Tgt Ion:114 Resp: 324631
Ion Ratio Lower Upper
114 100
63 25.1 21.0 31.6
88 17.4 14.9 22.3





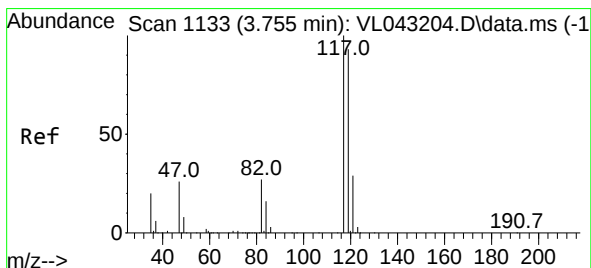
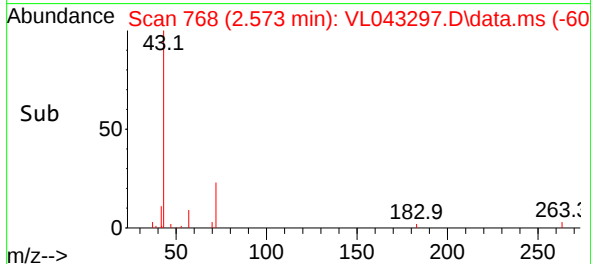
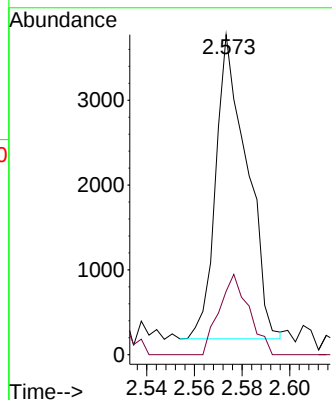
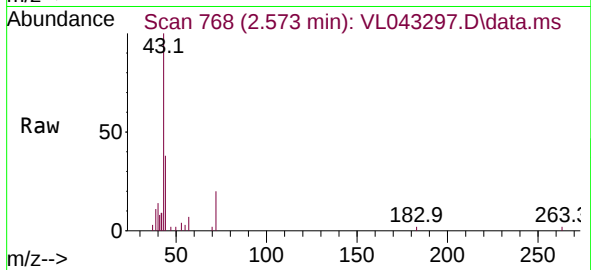
#34
2-Butanone
Concen: 0.142 ppbv
RT: 2.573 min Scan# 70
Delta R.T. 0.022 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 43 Resp: 3262
Ion Ratio Lower Upper
43 100
72 25.1 18.1 27.1

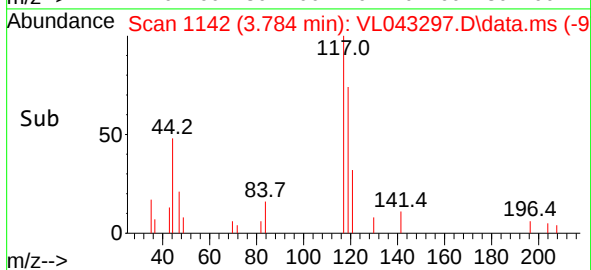
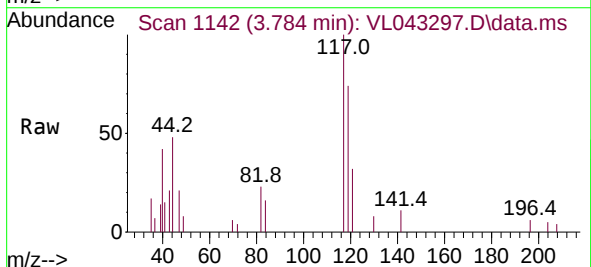
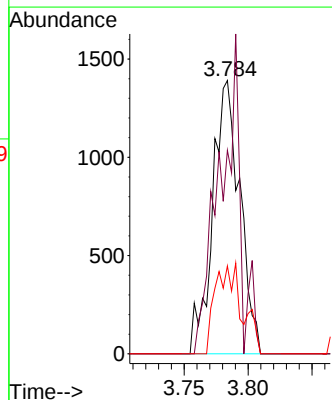
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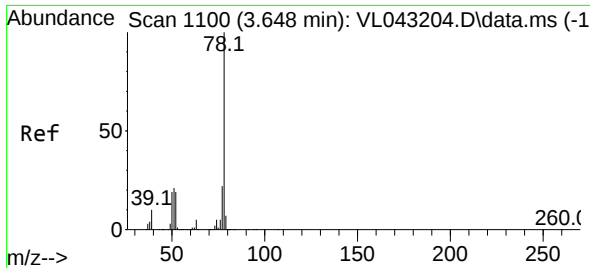
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#35
Carbon Tetrachloride
Concen: 0.083 ppbv m
RT: 3.784 min Scan# 1142
Delta R.T. 0.029 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

Tgt Ion:117 Resp: 2057
Ion Ratio Lower Upper
117 100
119 74.5 74.6 112.0#
121 32.1 23.2 34.8





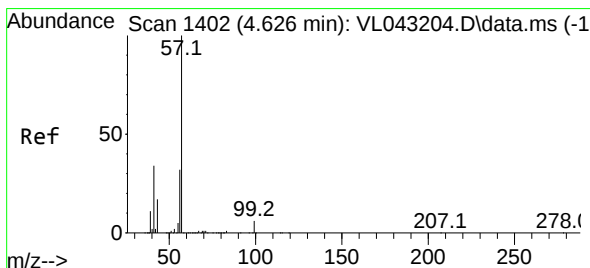
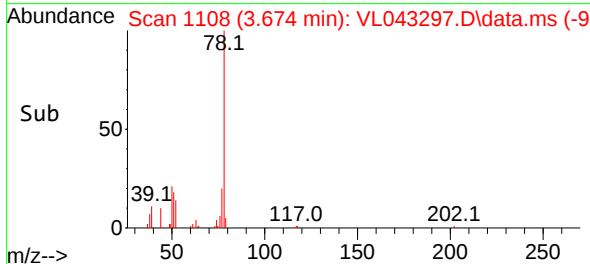
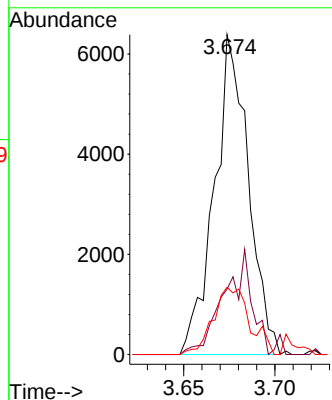
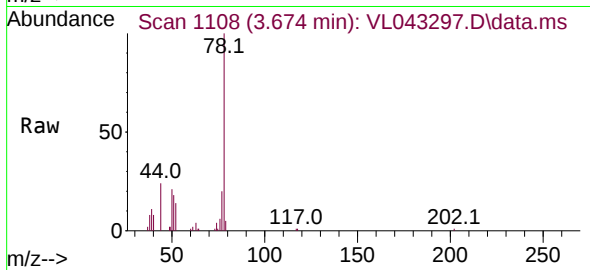
#36
Benzene
Concen: 0.267 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.026 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 78 Resp: 8289
Ion Ratio Lower Upper
78 100
77 20.5 17.5 26.3
50 21.0 15.5 23.3

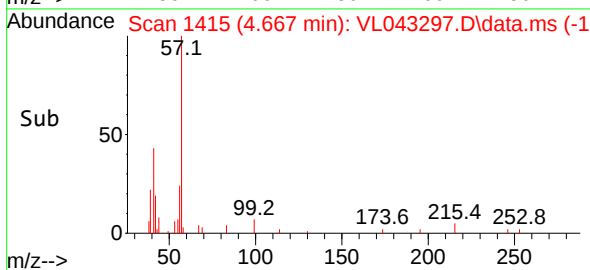
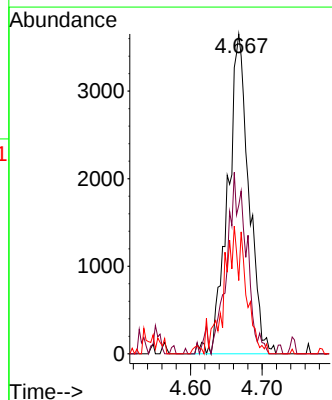
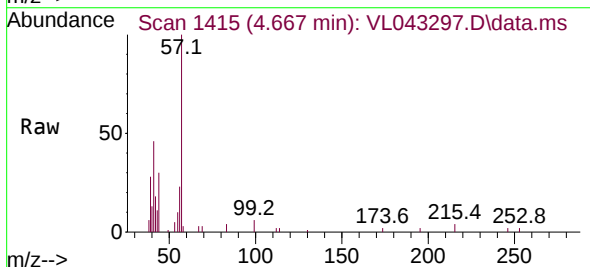
Manual Integrations
APPROVED

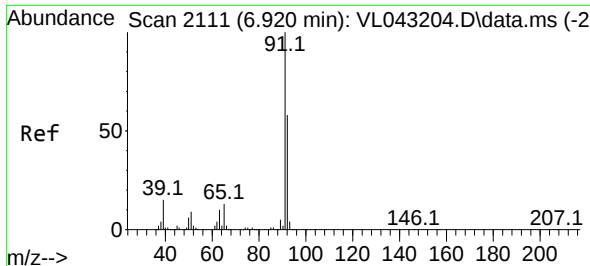
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#44
2,2,4-Trimethylpentane
Concen: 0.140 ppbv m
RT: 4.667 min Scan# 1415
Delta R.T. 0.042 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

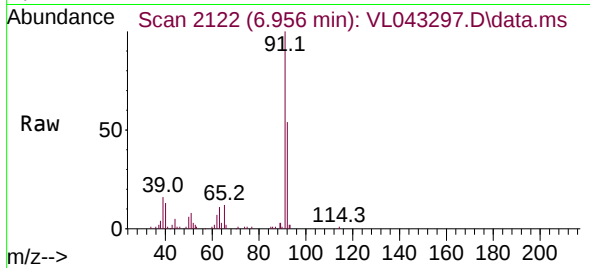
Tgt Ion: 57 Resp: 7453
Ion Ratio Lower Upper
57 100
41 54.5 28.0 42.0#
56 41.7 25.6 38.4#





#53
Toluene
Concen: 0.812 ppbv
RT: 6.956 min Scan# 2111
Delta R.T. 0.035 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13

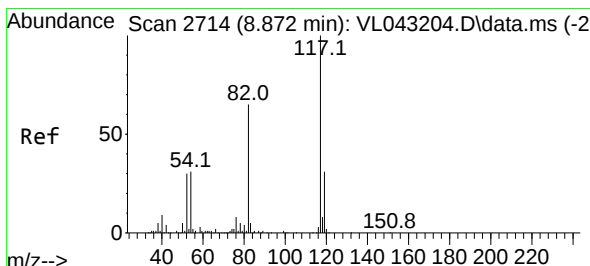
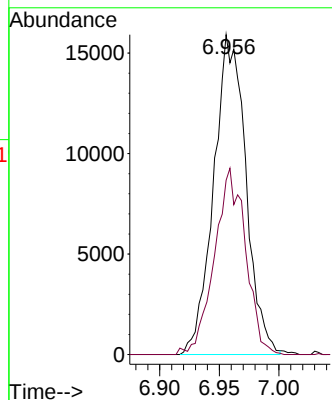
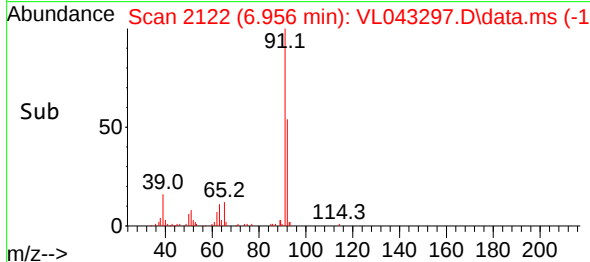
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



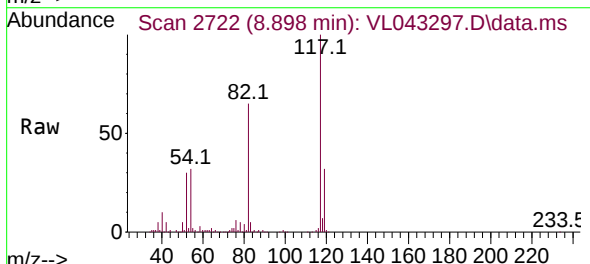
Tgt Ion: 91 Resp: 29890
Ion Ratio Lower Upper
91 100
92 56.4 47.4 71.0

Manual Integrations
APPROVED

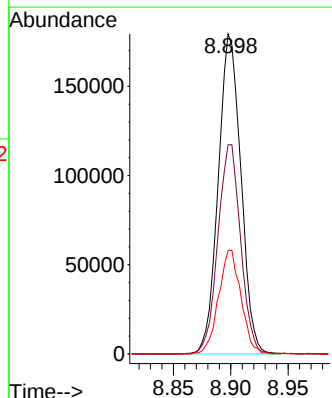
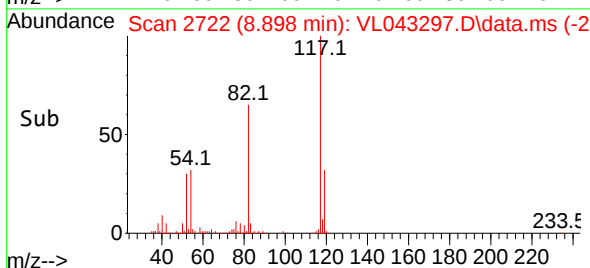
Reviewed By :Semsettin Yesilyurt 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

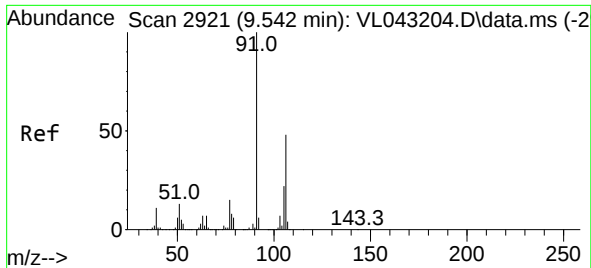


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.026 min
Lab File: VL043297.D
Acq: 02 Dec 2025 14:13



Tgt Ion:117 Resp: 245976
Ion Ratio Lower Upper
117 100
82 65.7 56.1 84.1
119 32.0 25.0 37.6





#59

m/p-Xylene

Concen: 0.189 ppbv m

RT: 9.545 min Scan# 29

Delta R.T. 0.003 min

Lab File: VL043297.D

Acq: 02 Dec 2025 14:13

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 91 Resp: 7168

Ion Ratio Lower Upper

91 100

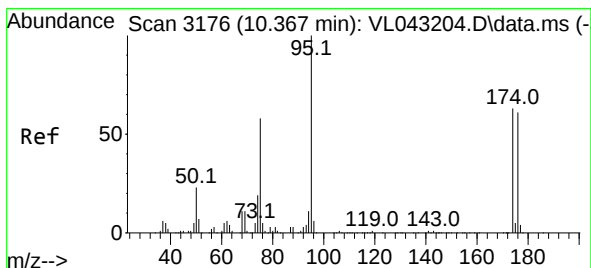
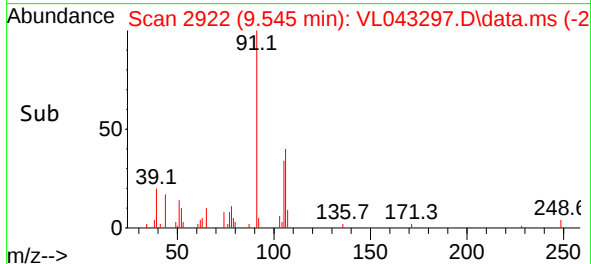
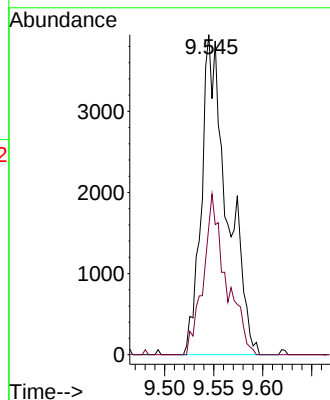
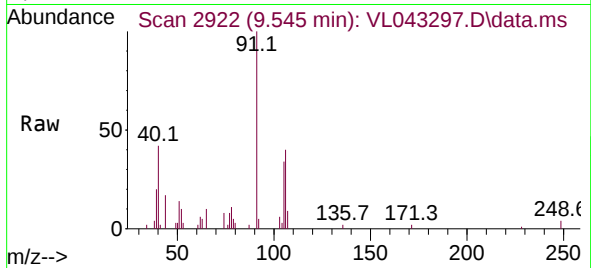
106 0.0 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/03/2025

Supervised By :Mahesh Dadoda 12/03/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.661 ppbv

RT: 10.390 min Scan# 3183

Delta R.T. 0.022 min

Lab File: VL043297.D

Acq: 02 Dec 2025 14:13

Tgt Ion: 95 Resp: 174187

Ion Ratio Lower Upper

95 100

174 66.5 50.2 75.2

175 5.0 4.1 6.1

