

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043087.D
 Acq On : 09 Oct 2025 14:25
 Operator : SY/MD
 Sample : Q3320-04 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 22:15:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	189452	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	494714	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	492557	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	419950	11.835	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	118.400%
Target Compounds						
					Qvalue	
9) Propene	1.483	41	4532	0.364	ppbv	96
10) Heptane	4.952	43	4447m	0.145	ppbv	
11) Trichlorofluoromethane	1.871	101	38752	1.181	ppbv	98
13) Ethanol	1.716	45	2412m	4.074	ppbv	
15) Acetone	1.829	43	187635	7.073	ppbv	99
19) Isopropyl Alcohol	1.881	45	2225m	0.175	ppbv	
20) Methylene Chloride	2.056	84	3580	0.309	ppbv	93
26) Hexane	2.816	57	24236	0.947	ppbv #	30
27) Carbon Disulfide	2.143	76	4724	0.156	ppbv #	1
32) 1,1,1-Trichloroethane	3.357	97	6161m	0.145	ppbv	
34) 2-Butanone	2.548	43	9023	0.269	ppbv	96
38) Trichloroethene	4.528	130	56644	2.877	ppbv	97
51) 2-Hexanone	7.422	43	8670m	0.298	ppbv	
52) Tetrachloroethene	8.205	164	568256	32.470	ppbv	99
53) Toluene	6.911	91	15976	0.335	ppbv	97
59) m/p-Xylene	9.519	91	11866m	0.184	ppbv	
60) o-Xylene	9.943	91	10161m	0.158	ppbv	

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

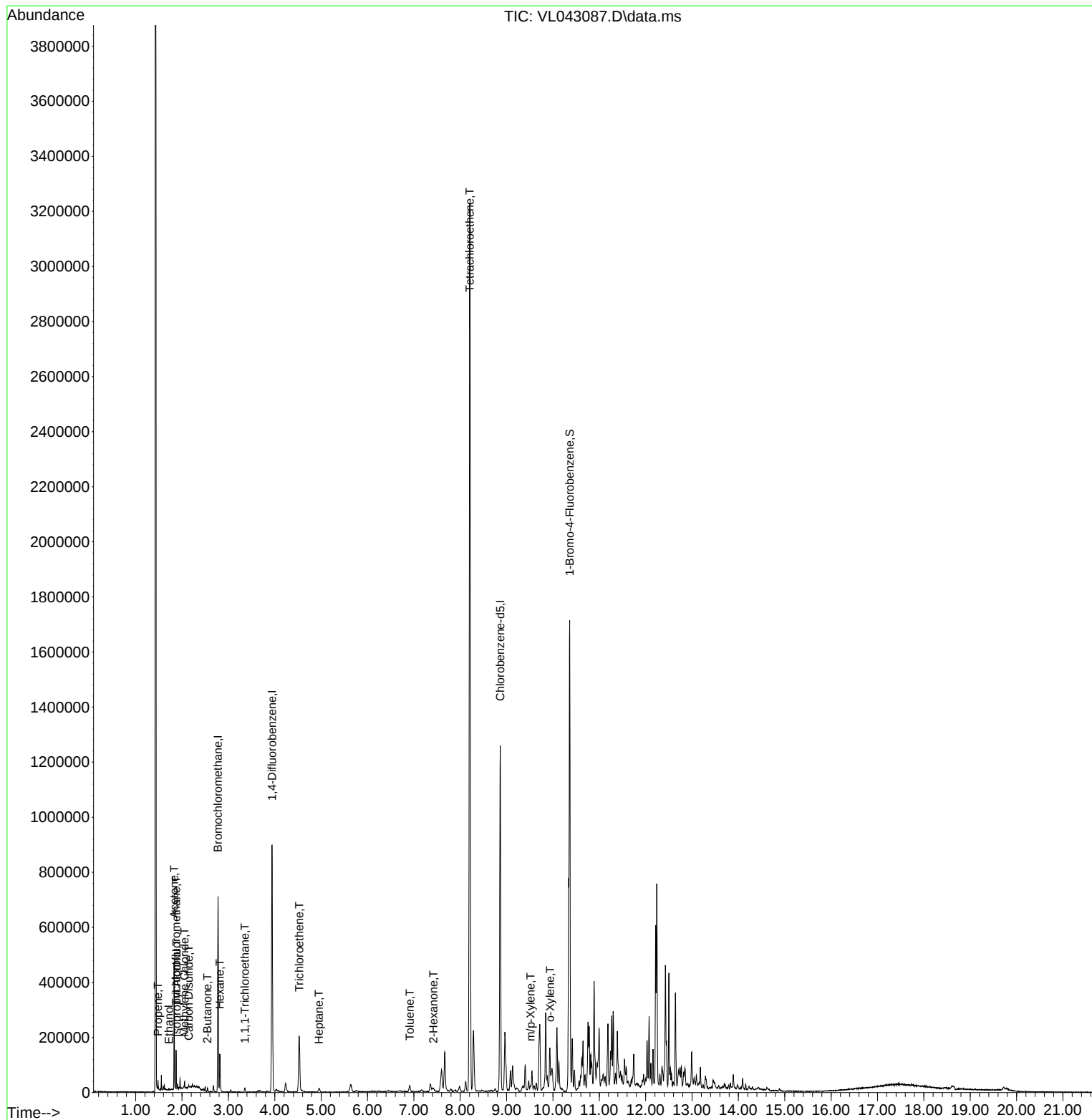
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
Data File : VL043087.D
Acq On : 09 Oct 2025 14:25
Operator : SY/MD
Sample : Q3320-04 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

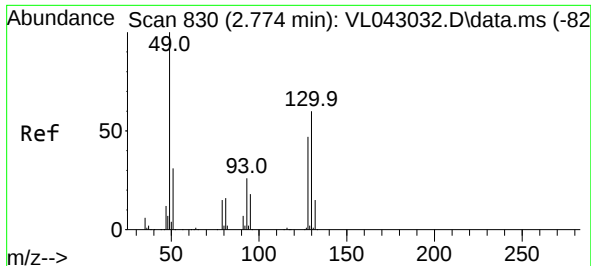
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Oct 09 22:15:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

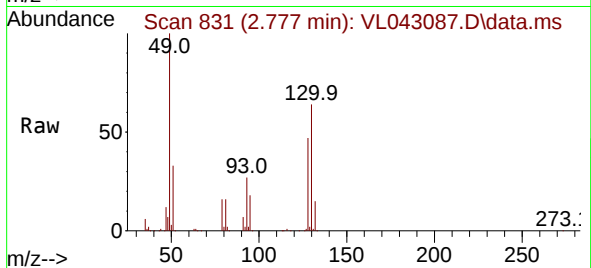
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

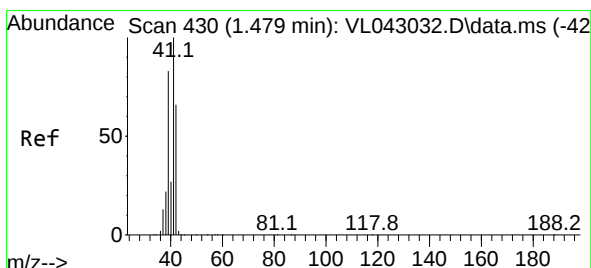
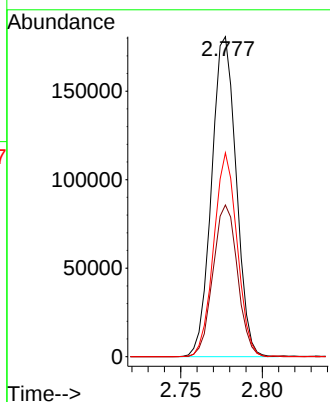
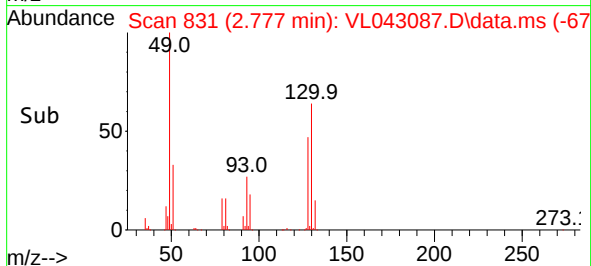
Instrument :
MSVOA_L
ClientSampleId :
SV2



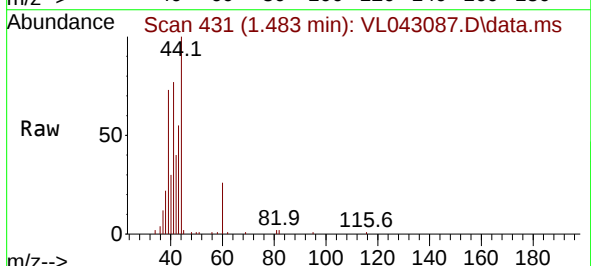
Tgt Ion: 49 Resp: 189452
Ion Ratio Lower Upper
49 100
128 47.3 24.1 72.2
130 60.7 31.4 94.3

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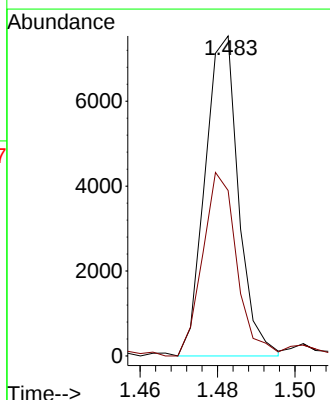
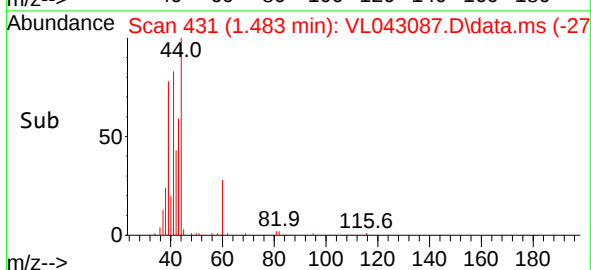
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

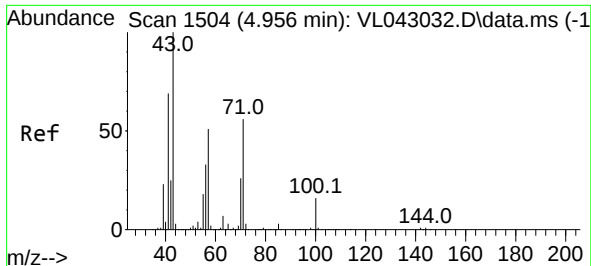


#9
Propene
Concen: 0.364 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25



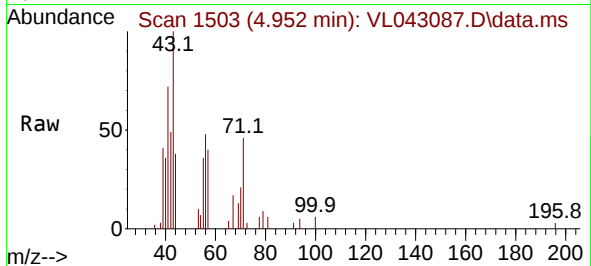
Tgt Ion: 41 Resp: 4532
Ion Ratio Lower Upper
41 100
42 63.6 53.3 79.9





#10
Heptane
Concen: 0.145 ppbv m
RT: 4.952 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

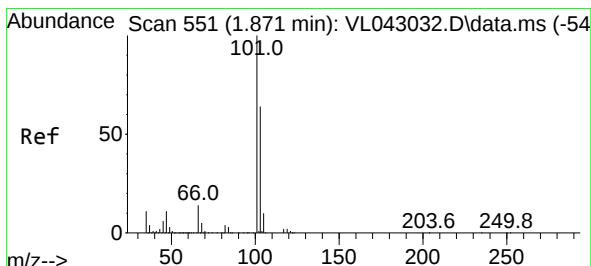
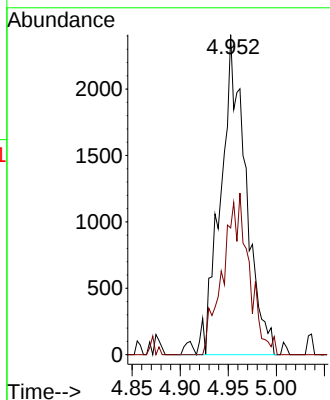
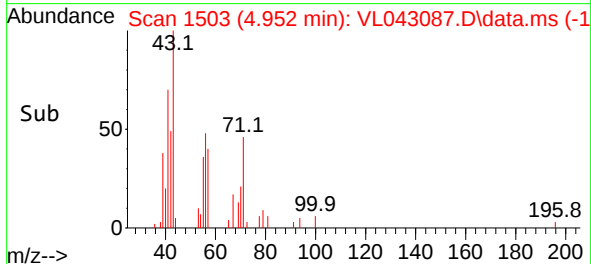
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 444
Ion Ratio Lower Upper
43 100
57 51.7 40.3 60.5

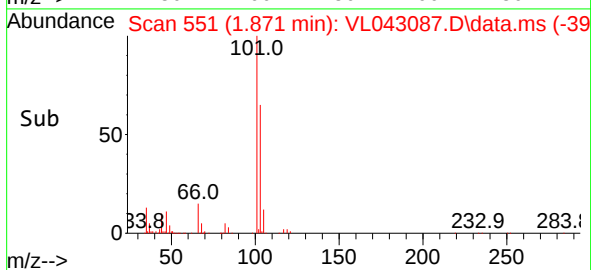
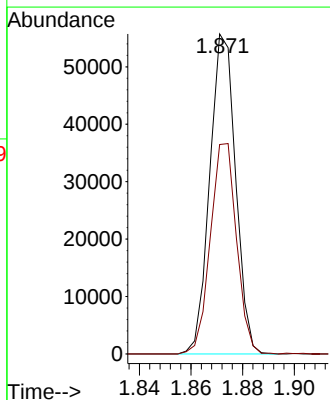
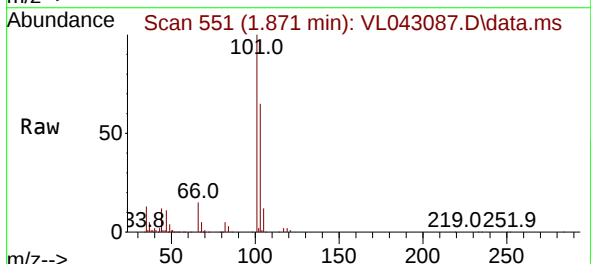
Manual Integrations
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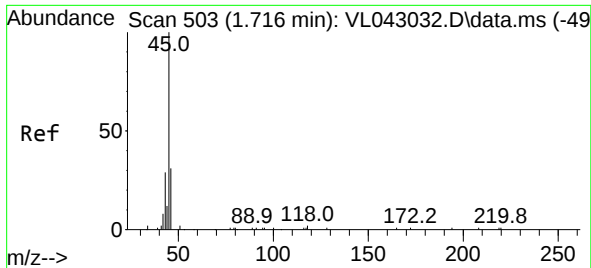
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#11
Trichlorofluoromethane
Concen: 1.181 ppbv
RT: 1.871 min Scan# 551
Delta R.T. 0.000 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

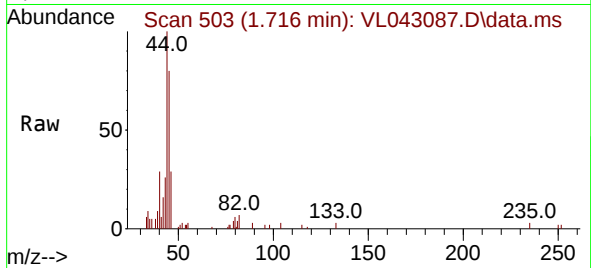
Tgt Ion:101 Resp: 38752
Ion Ratio Lower Upper
101 100
103 65.5 51.1 76.7





#13
Ethanol
Concen: 4.074 ppbv m
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

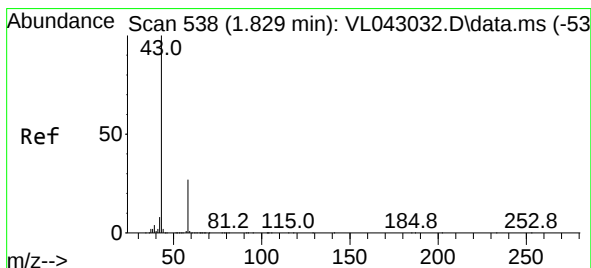
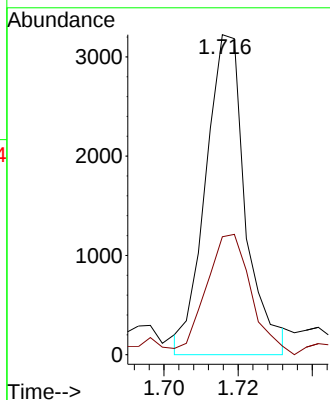
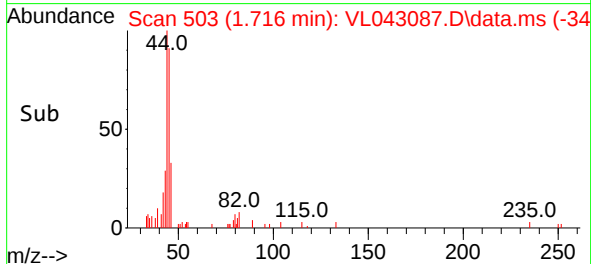
Instrument :
MSVOA_L
ClientSampleId :
SV2



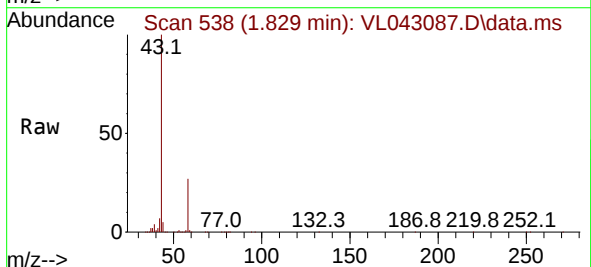
Tgt Ion: 45 Resp: 2412
Ion Ratio Lower Upper
45 100
46 5339.1 17.8 71.4

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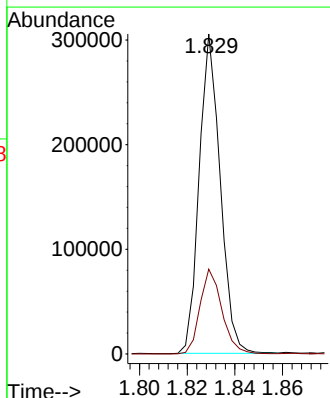
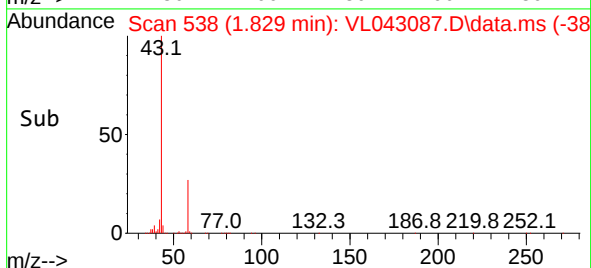
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

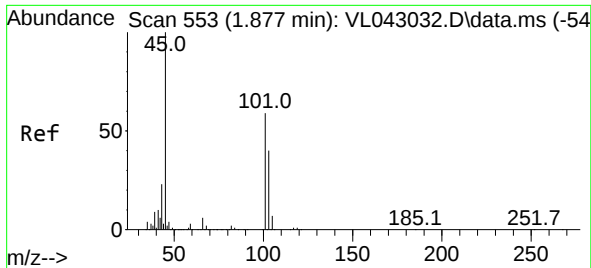


#15
Acetone
Concen: 7.073 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.000 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25



Tgt Ion: 43 Resp: 187635
Ion Ratio Lower Upper
43 100
58 28.2 22.2 33.4





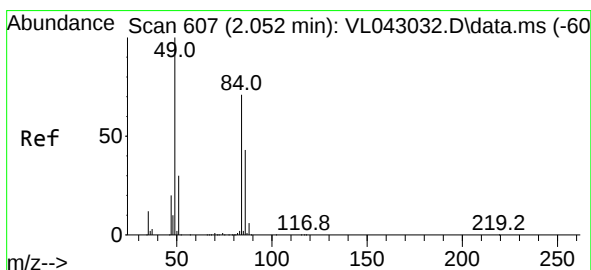
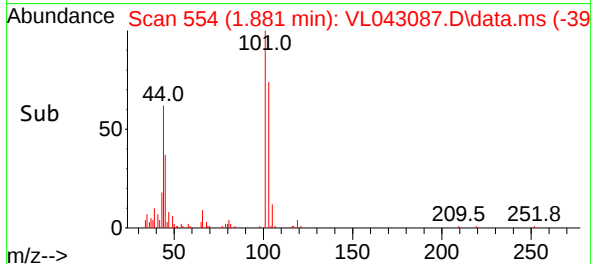
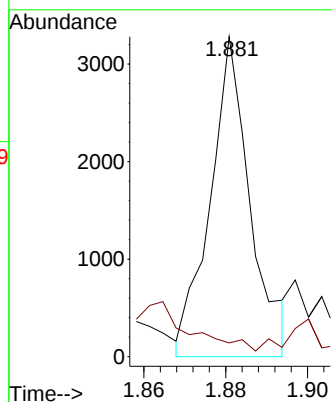
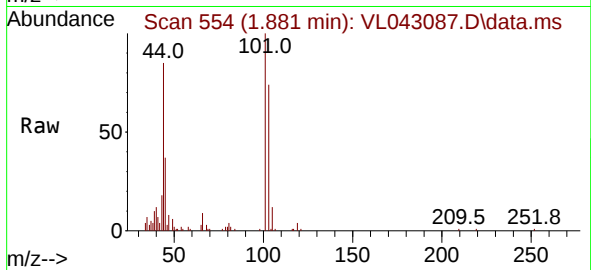
#19
Isopropyl Alcohol
Concen: 0.175 ppbv m
RT: 1.881 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 2225
Ion Ratio Lower Upper
45 100
58 0.0 42.3 63.5

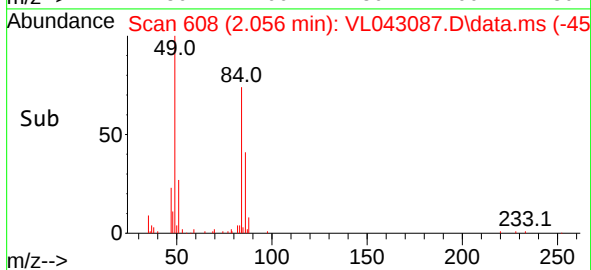
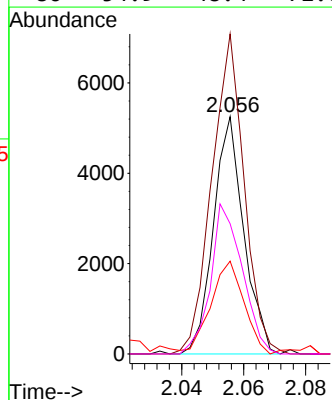
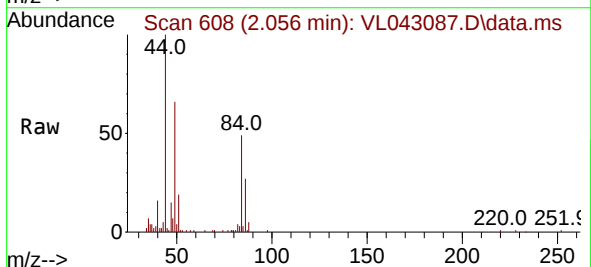
Manual Integrations
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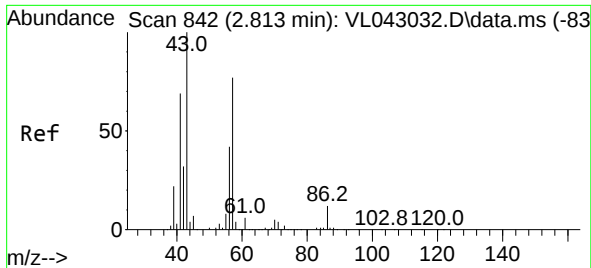
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#20
Methylene Chloride
Concen: 0.309 ppbv
RT: 2.056 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

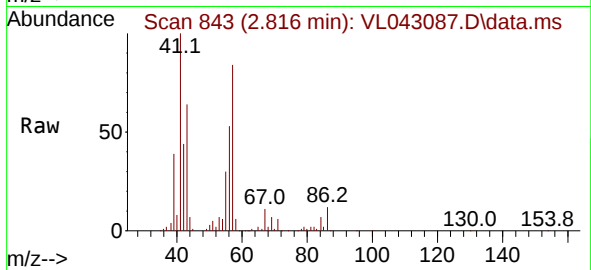
Tgt Ion: 84 Resp: 3580
Ion Ratio Lower Upper
84 100
49 133.4 112.5 168.7
51 37.6 34.2 51.2
86 54.9 48.4 72.6





#26
Hexane
Concen: 0.947 ppbv
RT: 2.816 min Scan# 842
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

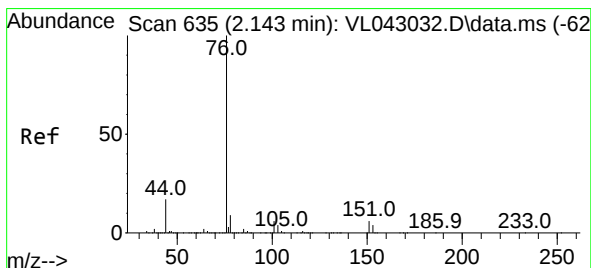
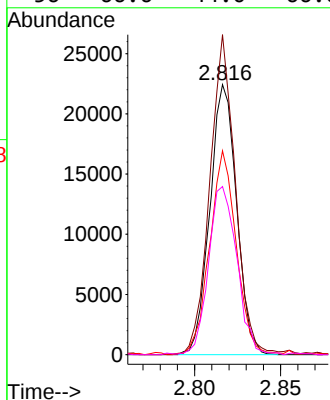
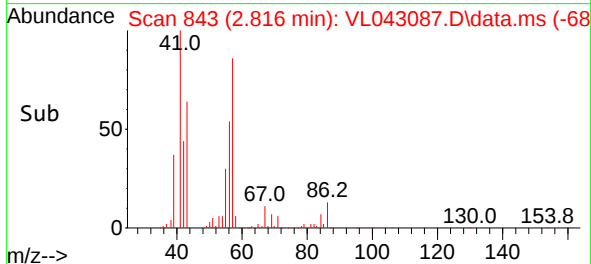
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 24230
Ion Ratio Lower Upper
57 100
41 114.3 76.1 114.1
43 76.3 201.4 302.0
56 66.6 44.0 66.0

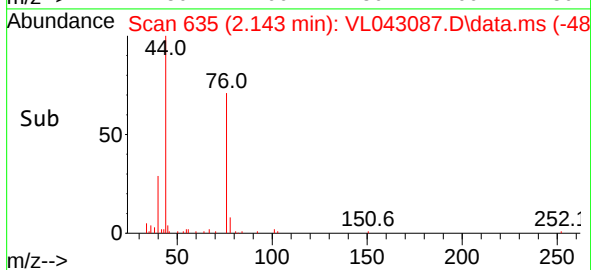
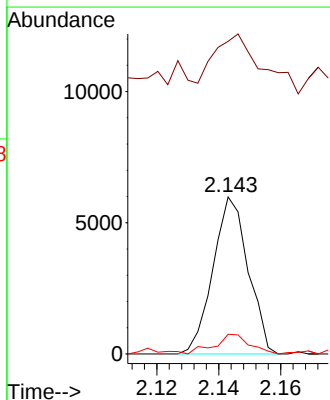
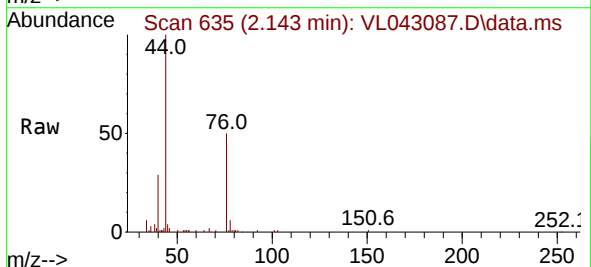
Manual Integrations
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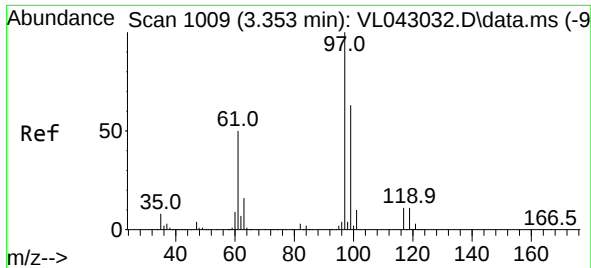
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#27
Carbon Disulfide
Concen: 0.156 ppbv
RT: 2.143 min Scan# 635
Delta R.T. 0.000 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

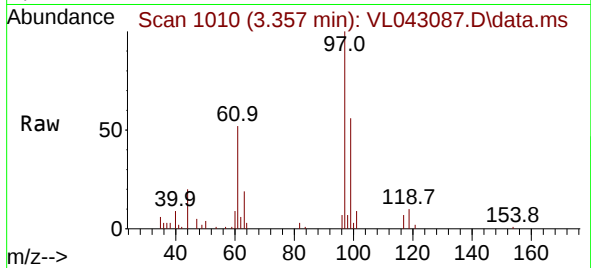
Tgt Ion: 76 Resp: 4724
Ion Ratio Lower Upper
76 100
44 718.2 14.0 21.0#
78 17.2 9.4 14.0#





#32
1,1,1-Trichloroethane
Concen: 0.145 ppbv m
RT: 3.357 min Scan# 1009
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

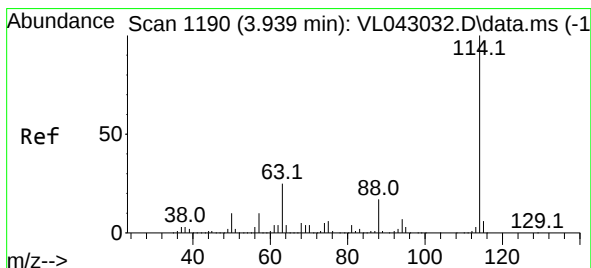
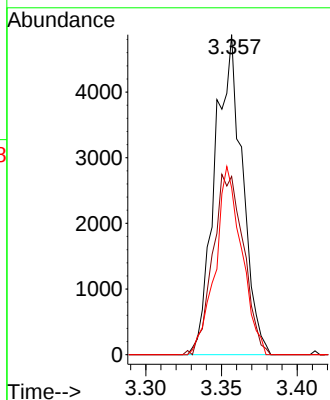
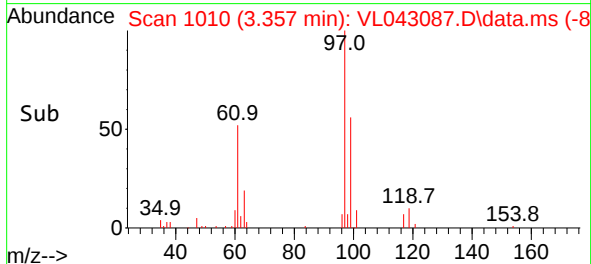
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 97 Resp: 616
Ion Ratio Lower Upper
97 100
99 63.1 51.2 76.8
61 56.3 40.1 60.1

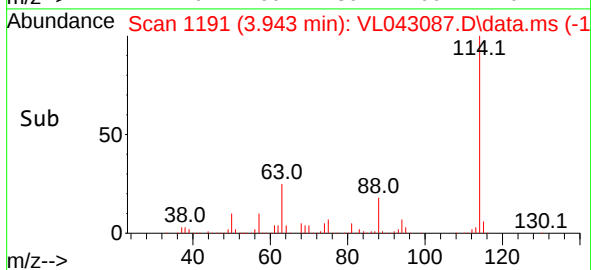
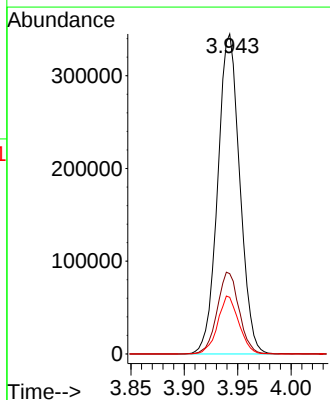
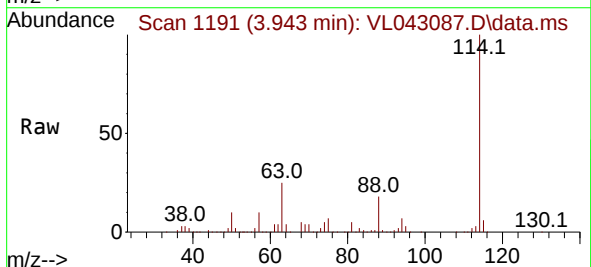
Manual Integrations
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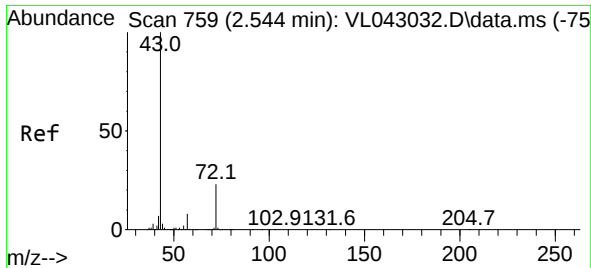
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1191
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

Tgt Ion:114 Resp: 494714
Ion Ratio Lower Upper
114 100
63 25.5 19.4 29.2
88 17.4 13.9 20.9





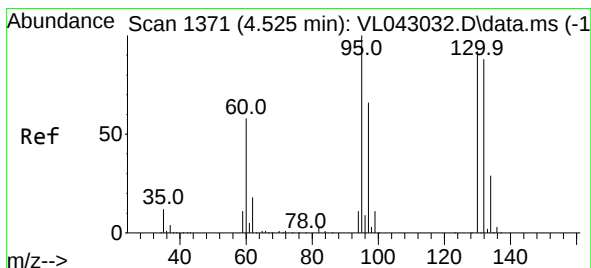
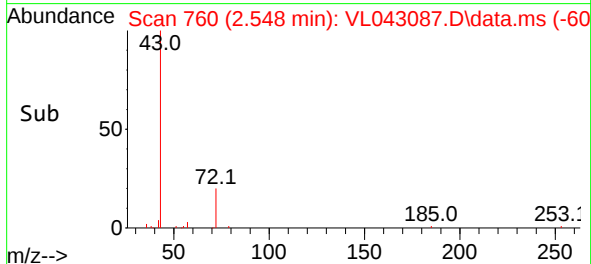
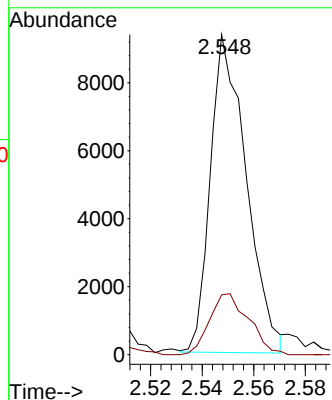
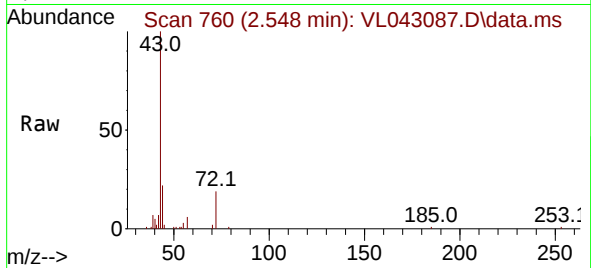
#34
2-Butanone
Concen: 0.269 ppbv
RT: 2.548 min Scan# 70
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 902
Ion Ratio Lower Upper
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72 21.0 18.4 27.6

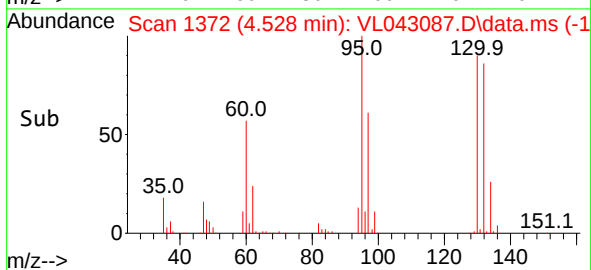
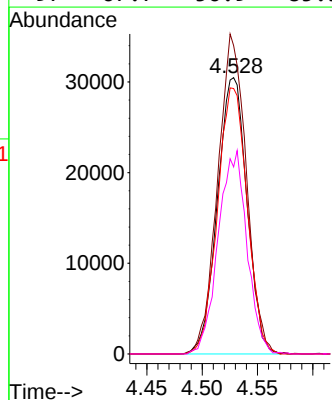
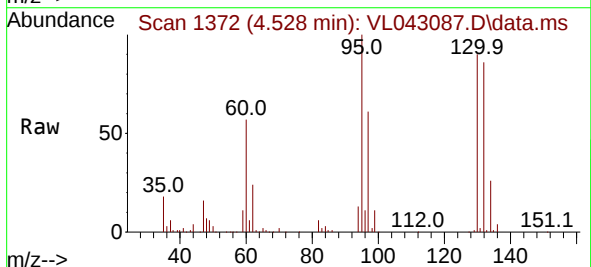
Manual Integrations
APPROVED

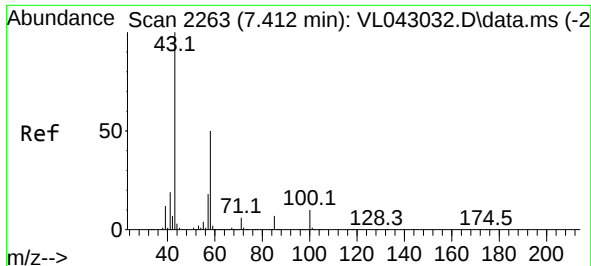
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#38
Trichloroethene
Concen: 2.877 ppbv
RT: 4.528 min Scan# 1372
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

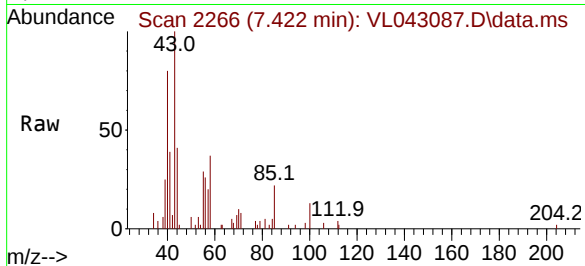
Tgt Ion:130 Resp: 56644
Ion Ratio Lower Upper
130 100
95 111.6 86.4 129.6
132 96.1 75.7 113.5
97 67.7 56.9 85.3





#51
2-Hexanone
Concen: 0.298 ppbv m
RT: 7.422 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

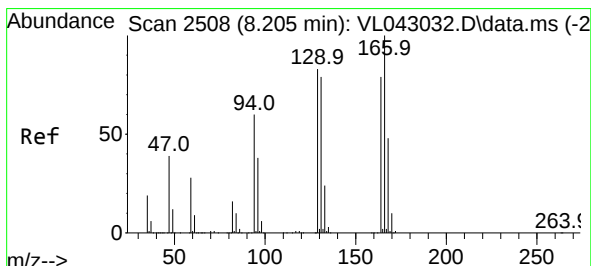
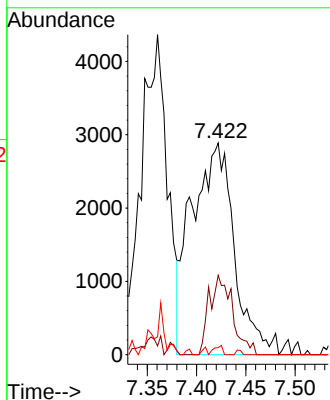
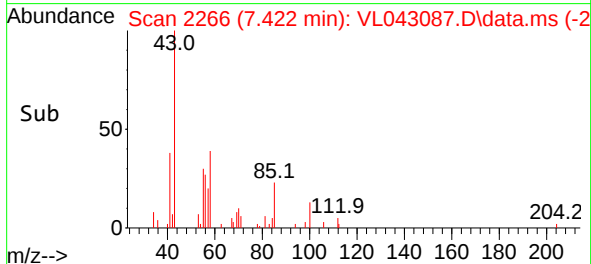
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 8670
Ion Ratio Lower Upper
43 100
58 20.6 39.1 58.7
98 1.1 0.5 0.7

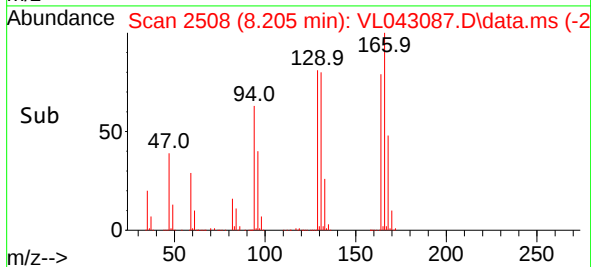
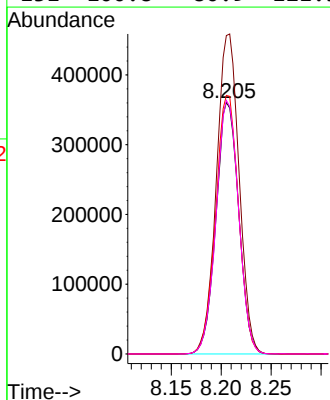
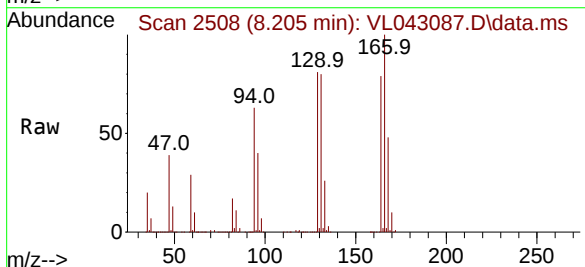
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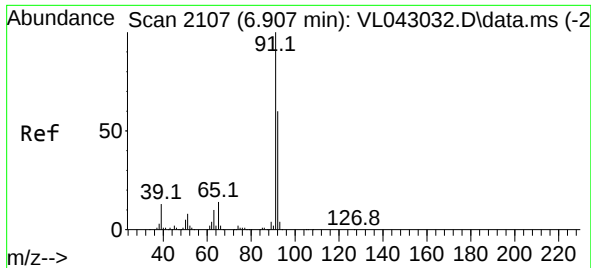
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#52
Tetrachloroethene
Concen: 32.470 ppbv
RT: 8.205 min Scan# 2508
Delta R.T. 0.000 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

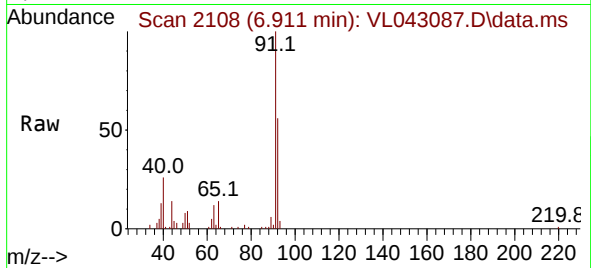
Tgt Ion:164 Resp: 568256
Ion Ratio Lower Upper
164 100
166 126.6 101.8 152.8
129 102.8 84.5 126.7
131 100.8 80.9 121.3





#53
Toluene
Concen: 0.335 ppbv
RT: 6.911 min Scan# 2108
Delta R.T. 0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

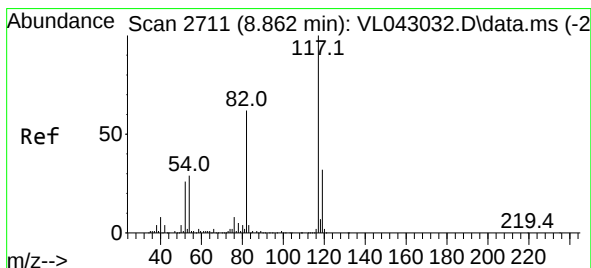
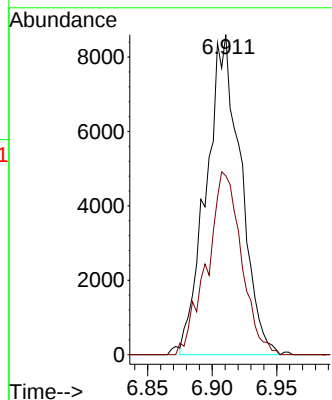
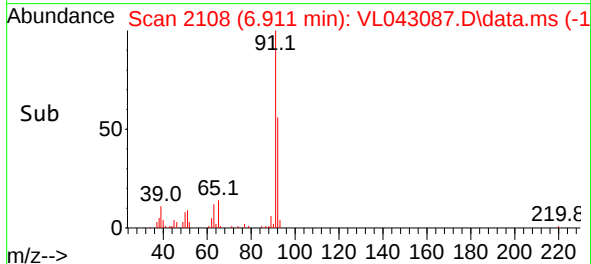
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 91 Resp: 15970
Ion Ratio Lower Upper
91 100
92 57.1 47.8 71.6

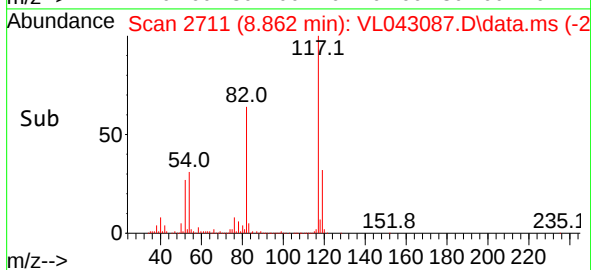
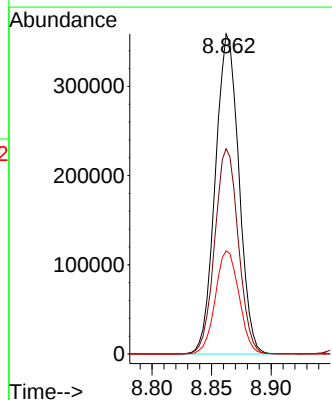
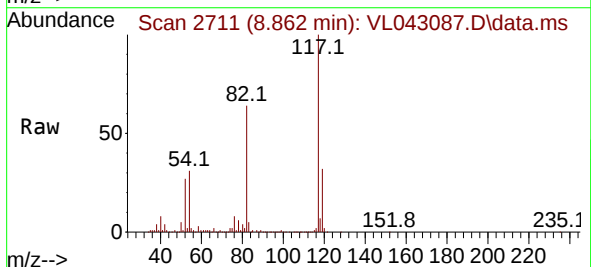
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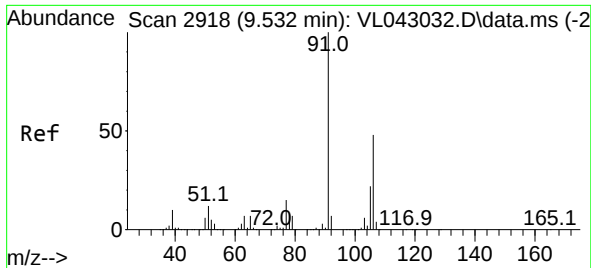
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. 0.000 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

Tgt Ion:117 Resp: 492557
Ion Ratio Lower Upper
117 100
82 64.4 53.0 79.6
119 32.5 25.4 38.2





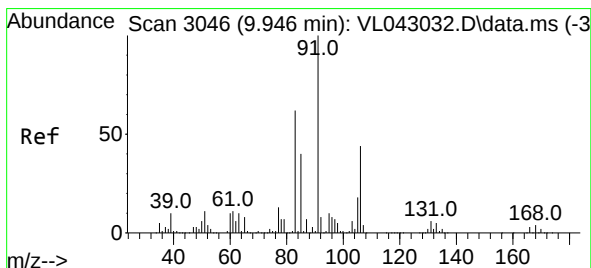
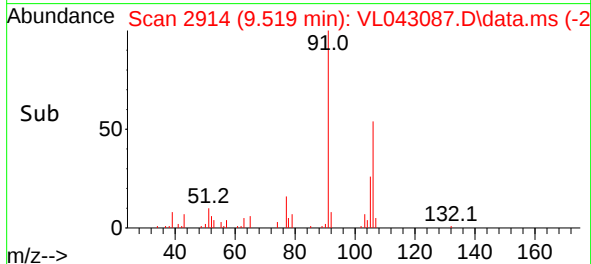
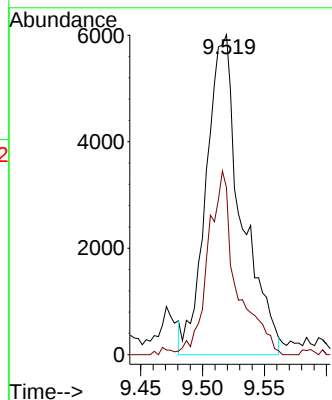
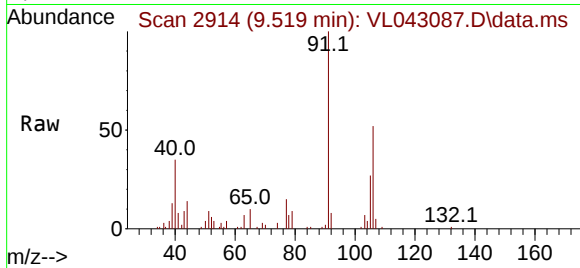
#59
m/p-Xylene
Concen: 0.184 ppbv m
RT: 9.519 min Scan# 2914
Delta R.T. -0.013 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 11860
Ion Ratio Lower Upper
91 100
106 0.0 37.5 56.3

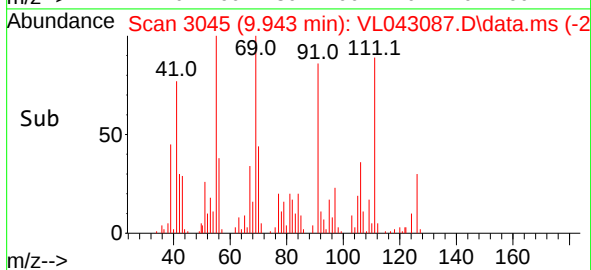
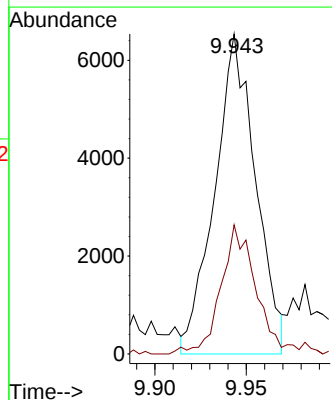
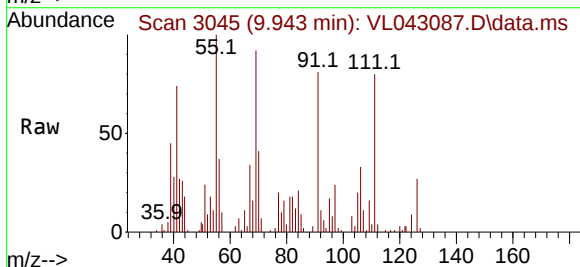
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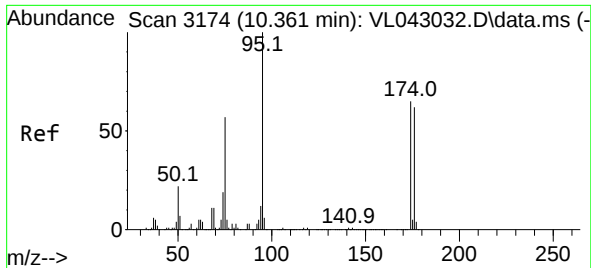
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#60
o-Xylene
Concen: 0.158 ppbv m
RT: 9.943 min Scan# 3045
Delta R.T. -0.003 min
Lab File: VL043087.D
Acq: 09 Oct 2025 14:25

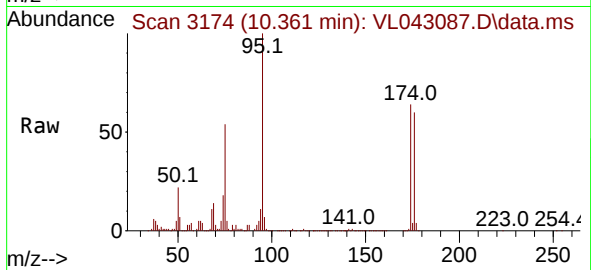
Tgt Ion: 91 Resp: 10161
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.835 ppbv
 RT: 10.361 min Scan# 3174
 Delta R.T. 0.000 min
 Lab File: VL043087.D
 Acq: 09 Oct 2025 14:25

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion: 95 Resp: 419950
 Ion Ratio Lower Upper
 95 100
 174 64.2 52.3 78.5
 175 4.7 3.8 5.8

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

