

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042443.D
 Acq On : 29 Apr 2025 13:11
 Operator : SY/MD
 Sample : Q1908-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

Quant Time: Apr 30 01:19:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	116167	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	309224	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	265424	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	240596	11.031	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10046	0.489	ppbv	100
3) Chlorodifluoromethane	1.476	51	4773m	0.244	ppbv	
4) Chloromethane	1.534	50	3300	0.406	ppbv	100
9) Propene	1.486	41	1749	0.197	ppbv	92
11) Trichlorofluoromethane	1.881	101	4172	0.214	ppbv	86
13) Ethanol	1.728	45	15309	10.821	ppbv	80
15) Acetone	1.839	43	209166	10.999	ppbv	98
19) Isopropyl Alcohol	1.894	45	15167	1.436	ppbv #	1
20) Methylene Chloride	2.065	84	4052	0.544	ppbv	91
26) Hexane	2.835	57	6206m	0.327	ppbv	
34) 2-Butanone	2.564	43	58507	2.392	ppbv	95
35) Carbon Tetrachloride	3.764	117	1618	0.058	ppbv #	63
52) Tetrachloroethene	8.228	164	630m	0.049	ppbv	
53) Toluene	6.943	91	5909m	0.148	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	7145	0.133	ppbv #	61

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

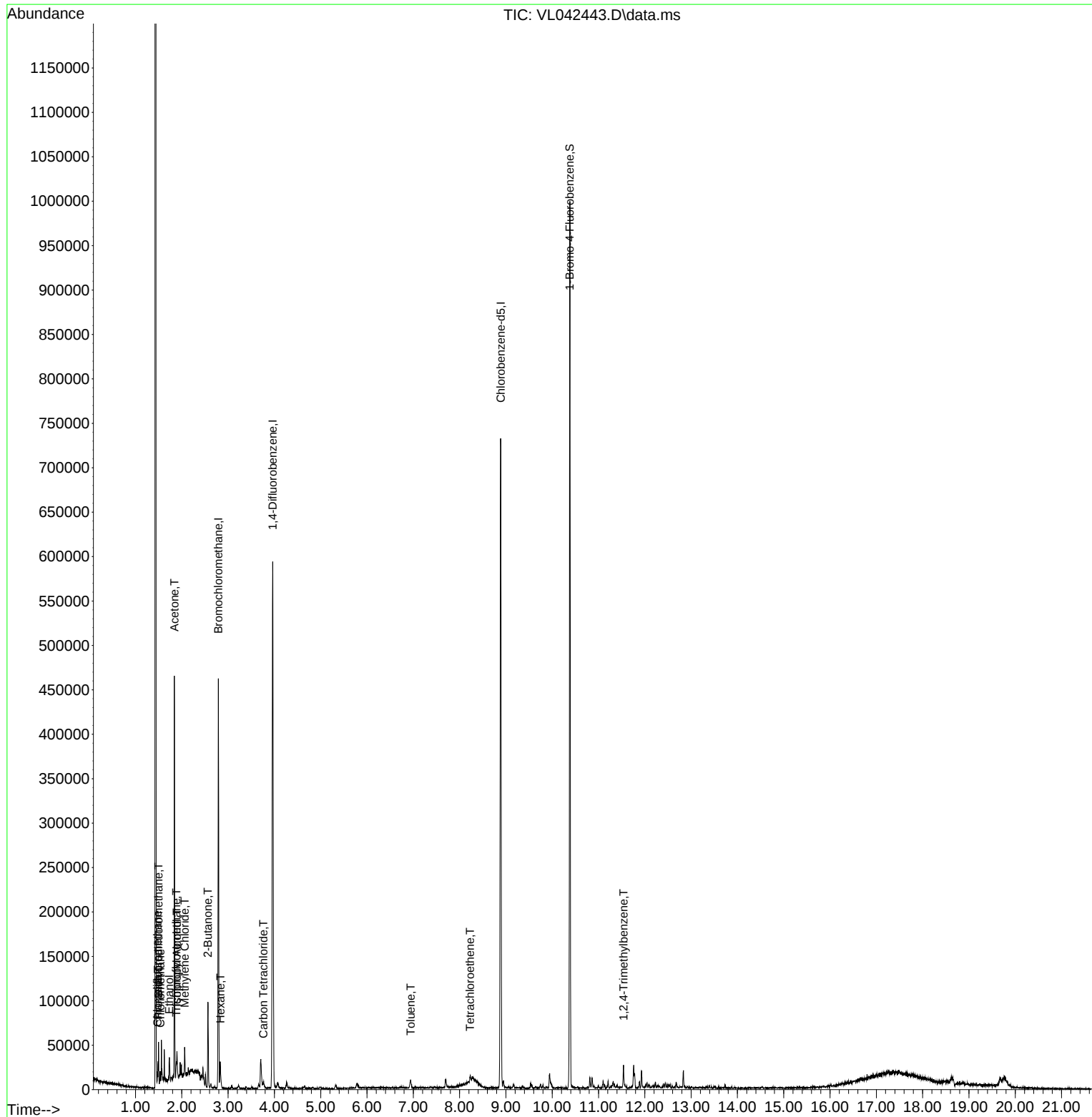
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
Data File : VL042443.D
Acq On : 29 Apr 2025 13:11
Operator : SY/MD
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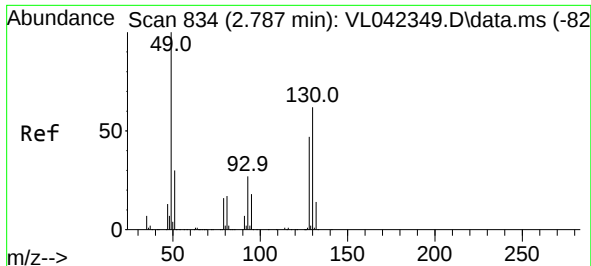
Instrument :
MSVOA_L
ClientSampleId :
B-1

Quant Time: Apr 30 01:19:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

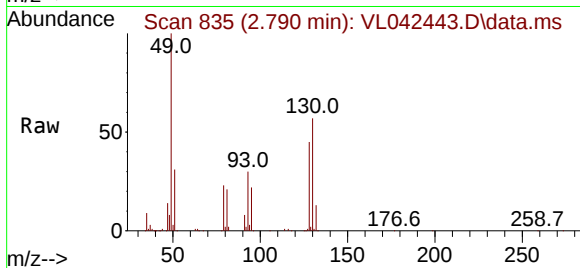
Reviewed By : Semsettin Yesilyurt 04/30/2025
Supervised By : Mahesh Dadoda 04/30/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

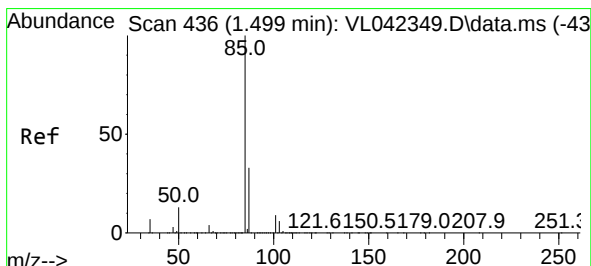
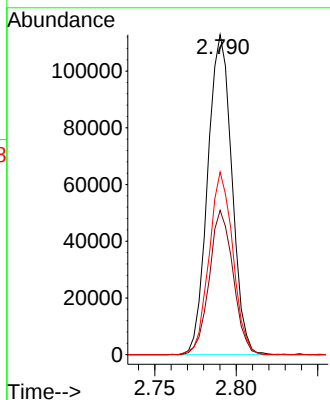
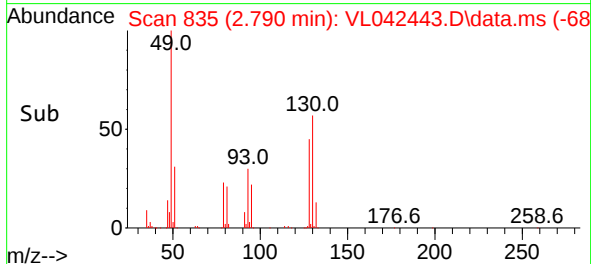
Instrument :
MSVOA_L
ClientSampleId :
B-1



Tgt Ion: 49 Resp: 11616
Ion Ratio Lower Upper
49 100
128 44.6 22.8 68.4
130 56.3 29.3 88.0

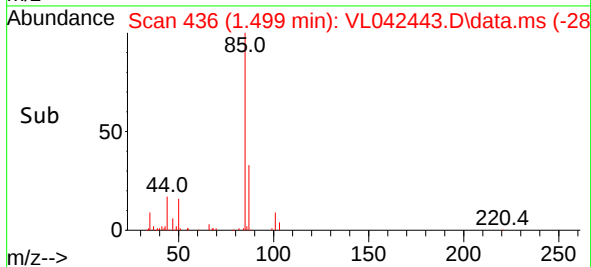
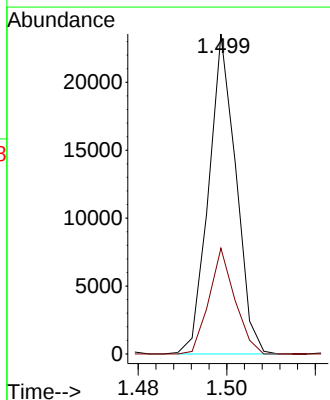
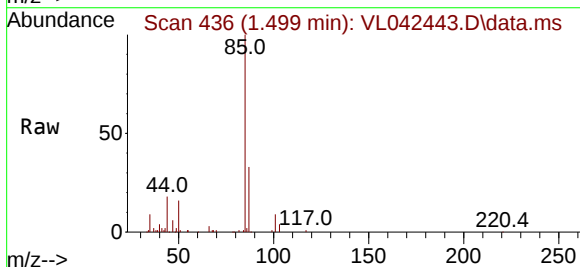
Manual Integrations
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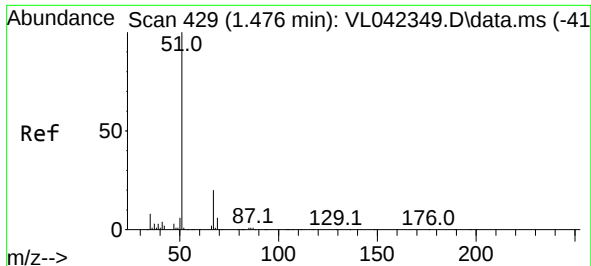
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#2
Dichlorodifluoromethane
Concen: 0.489 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

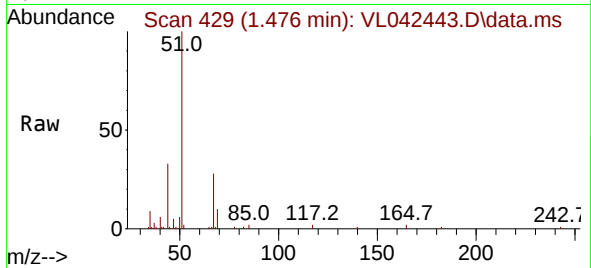
Tgt Ion: 85 Resp: 10046
Ion Ratio Lower Upper
85 100
87 33.0 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.244 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

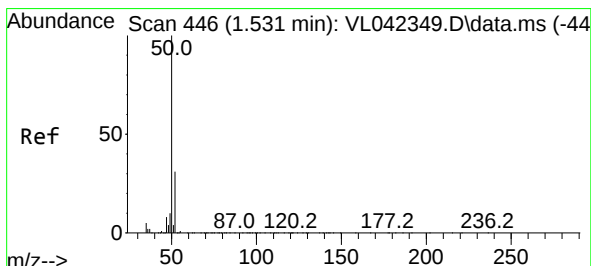
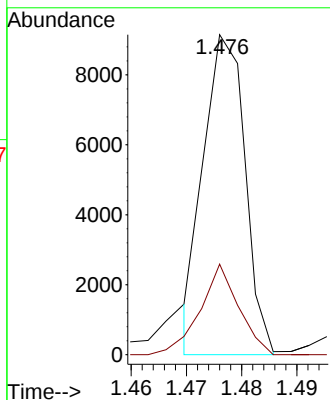
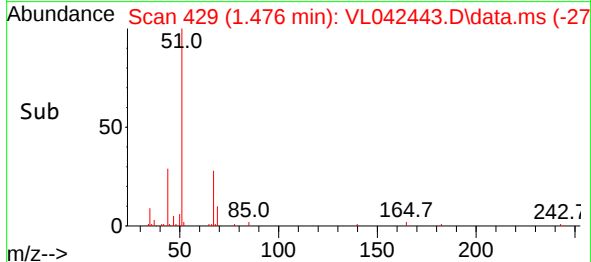
Instrument :
MSVOA_L
ClientSampleId :
B-1



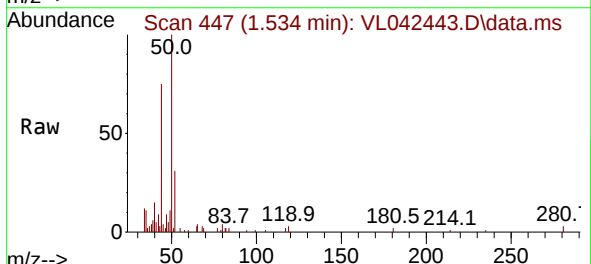
Tgt Ion: 51 Resp: 477
Ion Ratio Lower Upper
51 100
67 26.4 16.2 24.4

Manual Integrations
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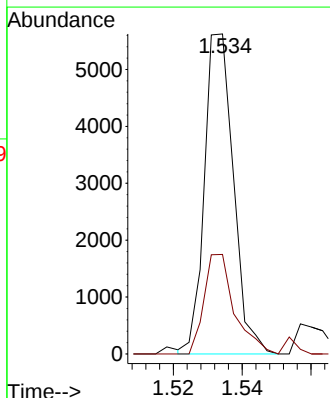
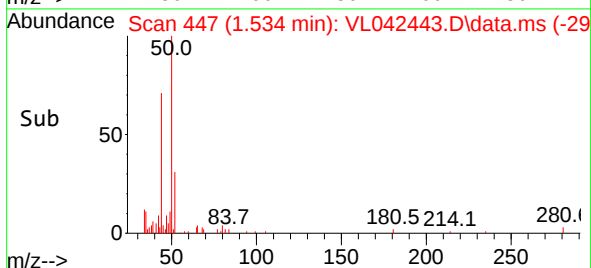
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025

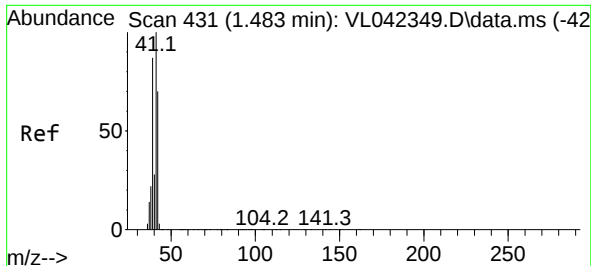


#4
Chloromethane
Concen: 0.406 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11



Tgt Ion: 50 Resp: 3300
Ion Ratio Lower Upper
50 100
52 31.1 24.7 37.1





#9

Propene

Concen: 0.197 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

B-1

Tgt Ion: 41 Resp: 1749

Ion Ratio Lower Upper

41 100

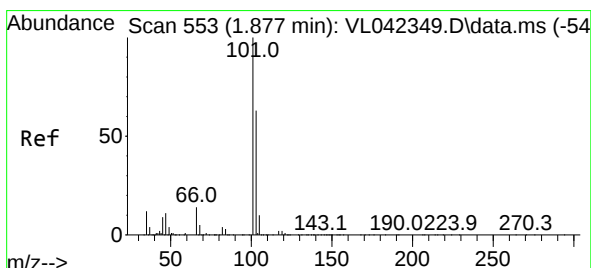
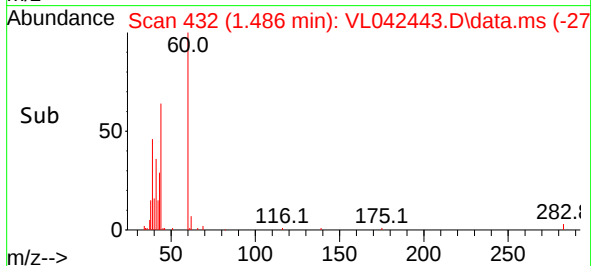
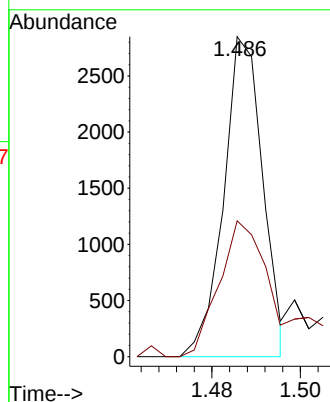
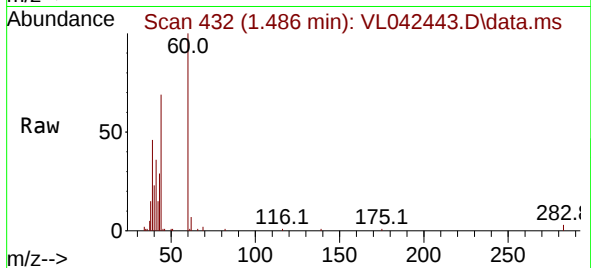
42 64.1 56.2 84.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.003 min

Lab File: VL042443.D

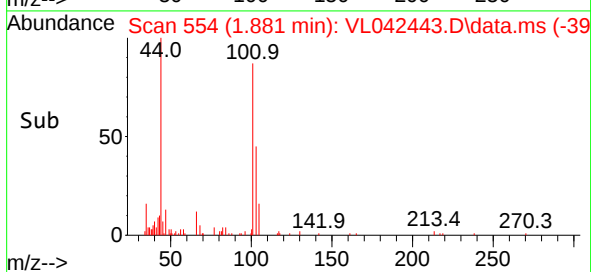
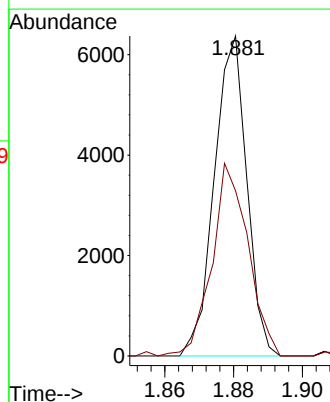
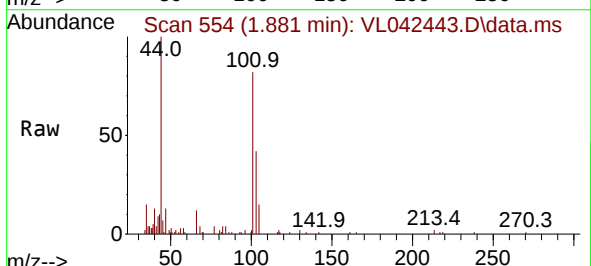
Acq: 29 Apr 2025 13:11

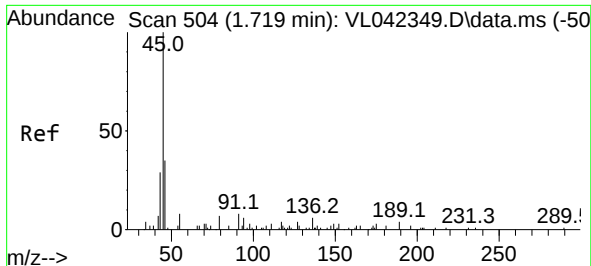
Tgt Ion:101 Resp: 4172

Ion Ratio Lower Upper

101 100

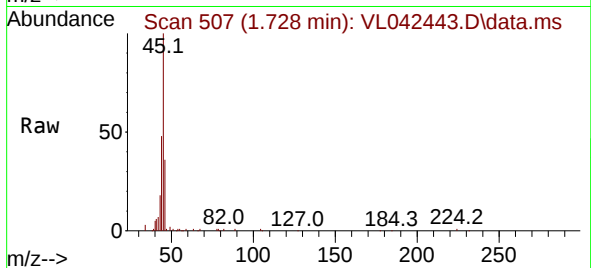
103 51.6 50.1 75.1





#13
Ethanol
Concen: 10.821 ppbv
RT: 1.728 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

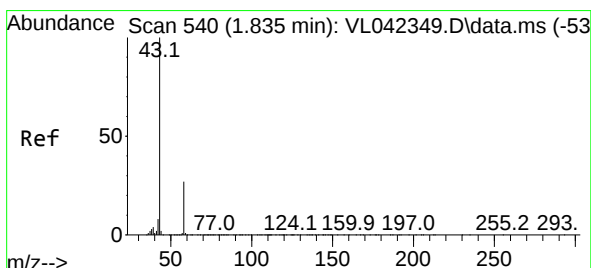
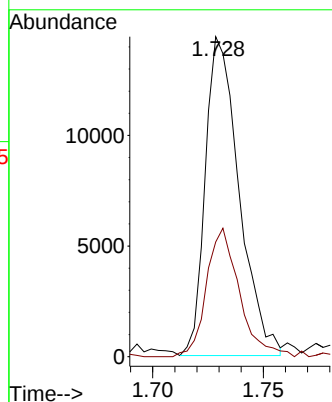
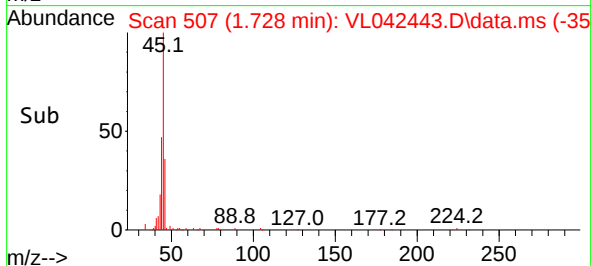
Instrument :
MSVOA_L
ClientSampleId :
B-1



Tgt Ion: 45 Resp: 15309
Ion Ratio Lower Upper
45 100
46 40.3 21.9 87.7

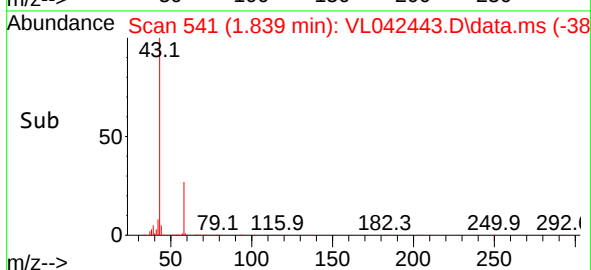
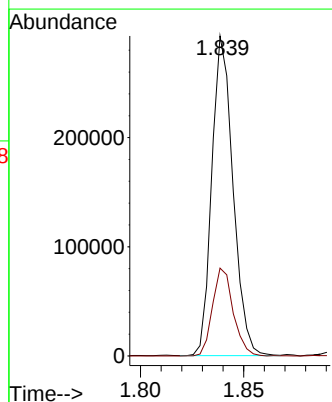
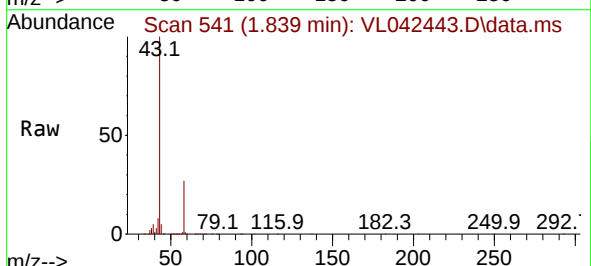
Manual Integrations
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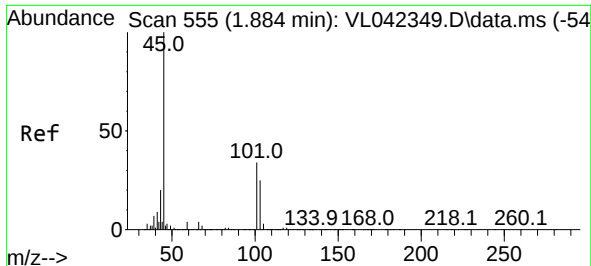
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#15
Acetone
Concen: 10.999 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 43 Resp: 209166
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6





#19

Isopropyl Alcohol

Concen: 1.436 ppbv

RT: 1.894 min Scan# 516

Delta R.T. 0.010 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

B-1

Tgt Ion: 45 Resp: 1516

Ion Ratio Lower Upper

45 100

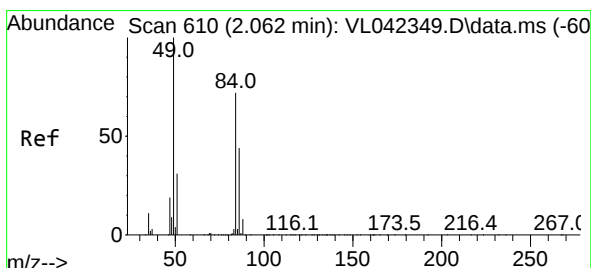
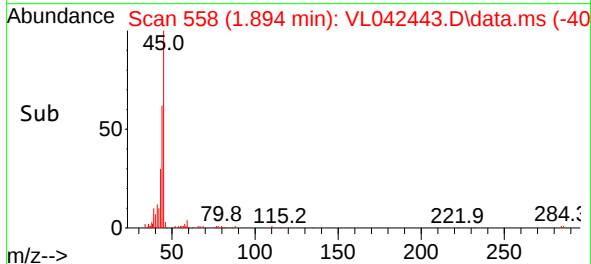
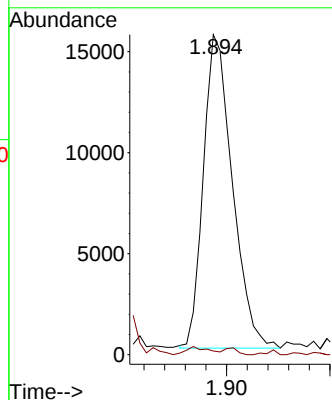
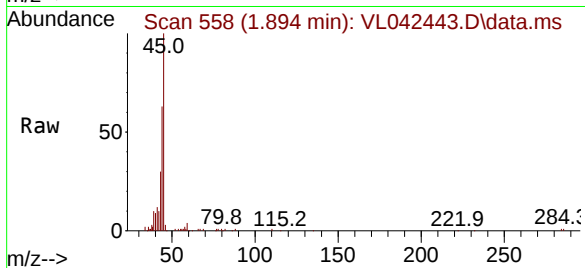
58 369.6 34.5 51.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#20

Methylene Chloride

Concen: 0.544 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.003 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Tgt Ion: 84 Resp: 4052

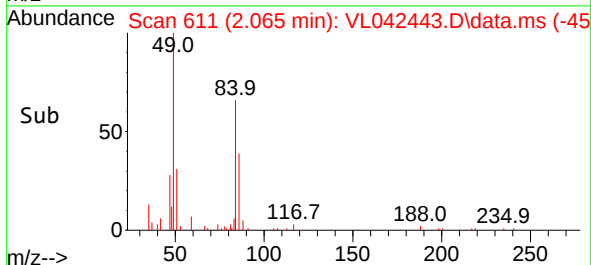
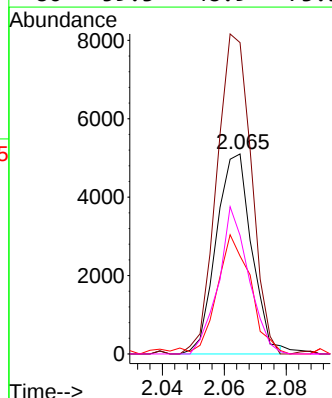
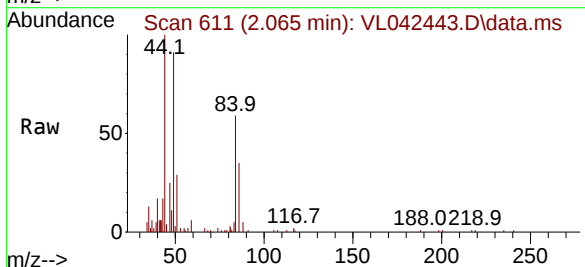
Ion Ratio Lower Upper

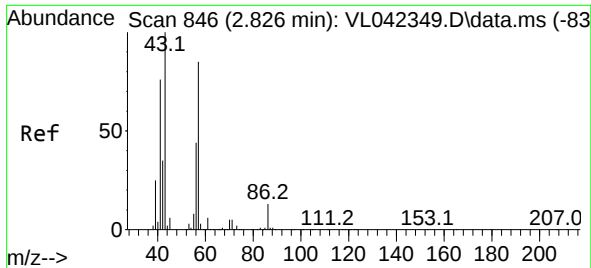
84 100

49 155.6 111.6 167.4

51 47.2 35.1 52.7

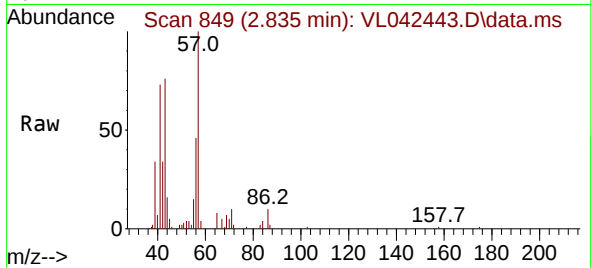
86 59.3 48.9 73.3





#26
Hexane
Concen: 0.327 ppbv m
RT: 2.835 min Scan# 846
Delta R.T. 0.010 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

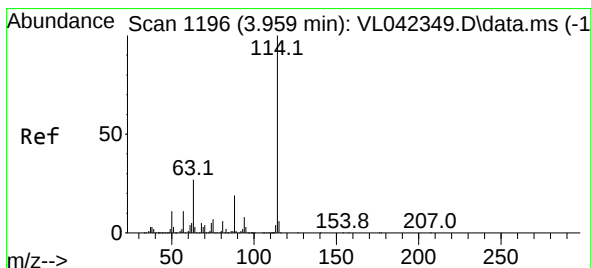
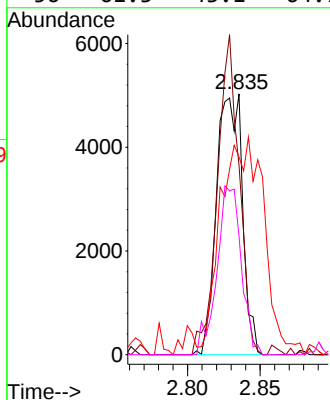
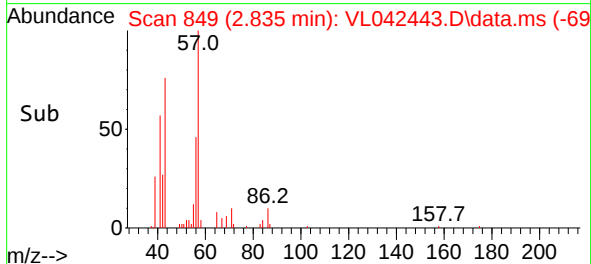
Instrument :
MSVOA_L
ClientSampleId :
B-1



Tgt Ion: 57 Resp: 6200
Ion Ratio Lower Upper
57 100
41 105.3 77.9 116.9
43 0.0 208.4 312.6
56 61.3 43.1 64.7

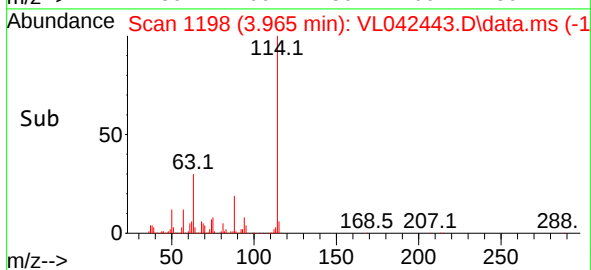
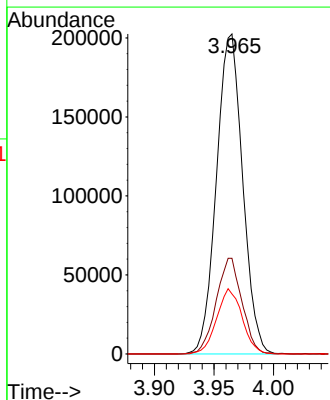
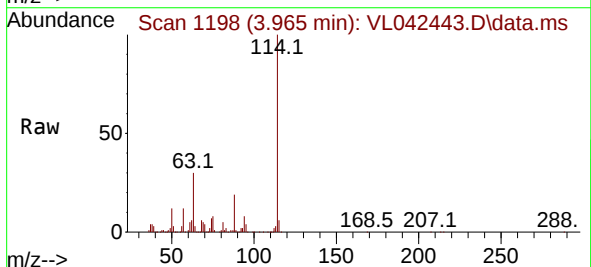
Manual Integrations
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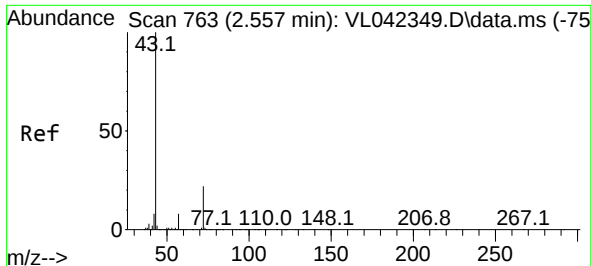
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

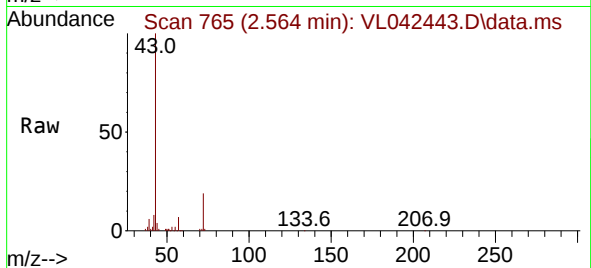
Tgt Ion:114 Resp: 309224
Ion Ratio Lower Upper
114 100
63 29.4 21.8 32.6
88 19.8 15.5 23.3





#34
2-Butanone
Concen: 2.392 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

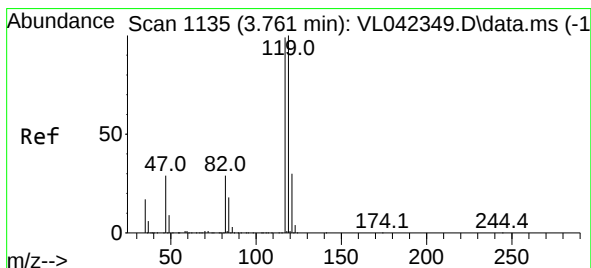
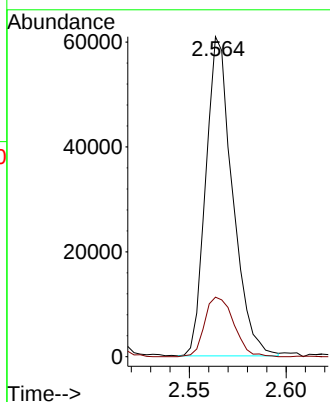
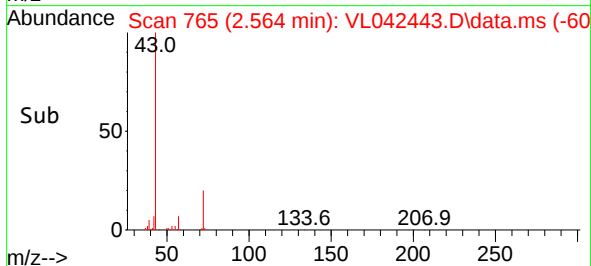
Instrument :
MSVOA_L
ClientSampleId :
B-1



Tgt Ion: 43 Resp: 5850
Ion Ratio Lower Upper
43 100
72 20.4 18.2 27.2

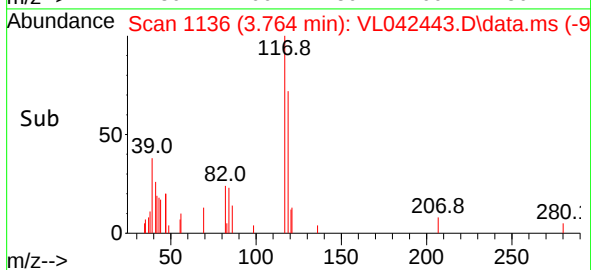
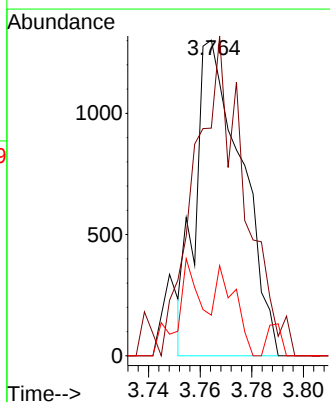
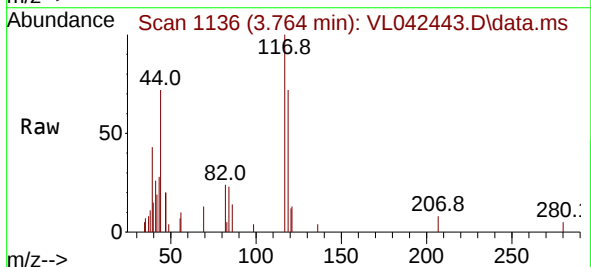
Manual Integrations
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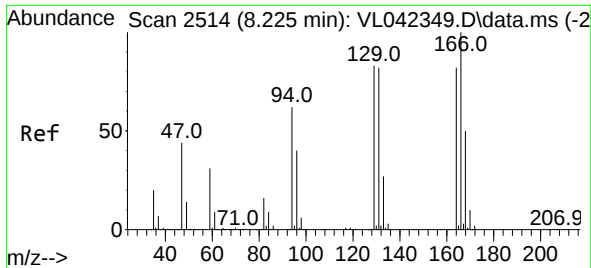
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#35
Carbon Tetrachloride
Concen: 0.058 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

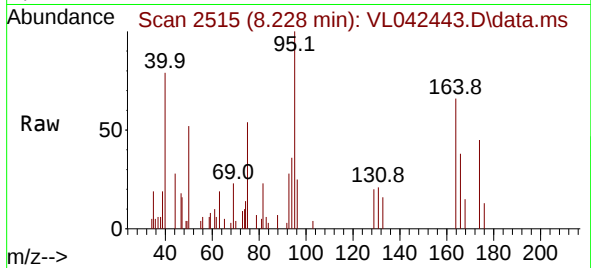
Tgt Ion:117 Resp: 1618
Ion Ratio Lower Upper
117 100
119 65.9 80.5 120.7#
121 5.1 24.2 36.2#





#52
Tetrachloroethene
Concen: 0.049 ppbv m
RT: 8.228 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

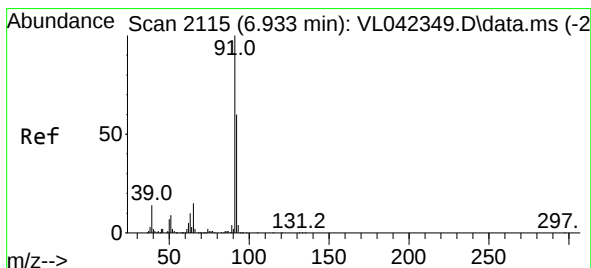
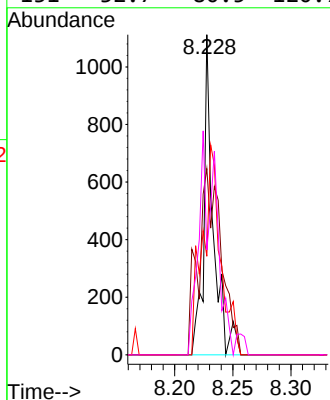
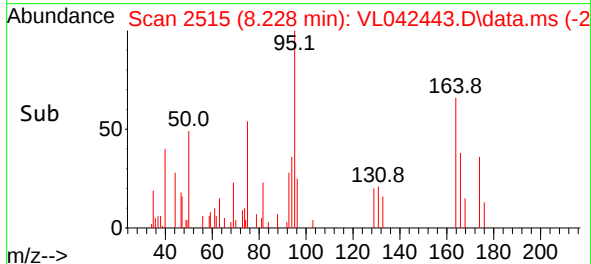
Instrument :
MSVOA_L
ClientSampleId :
B-1



Tgt Ion:164 Resp: 630
Ion Ratio Lower Upper
164 100
166 58.2 98.2 147.2
129 30.8 81.8 122.8
131 32.7 80.5 120.7

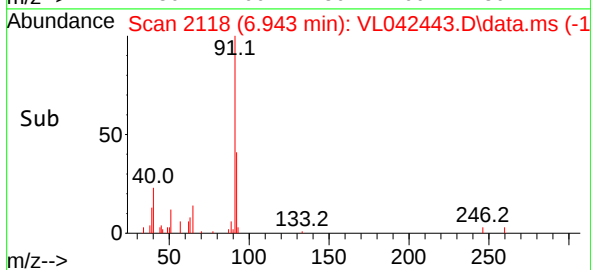
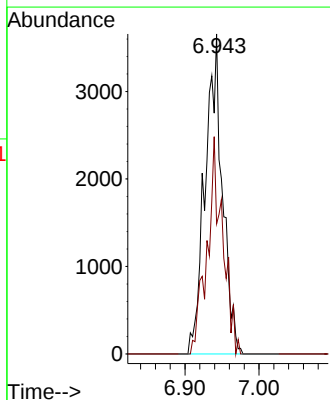
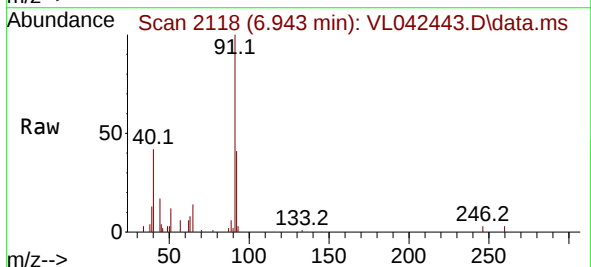
Manual Integrations
APPROVED

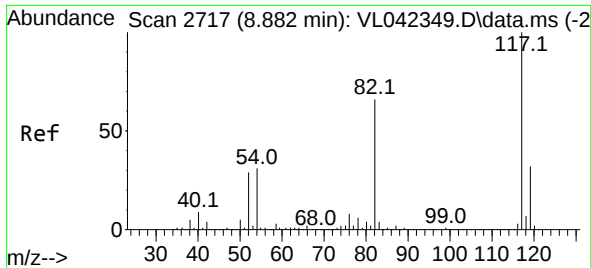
Reviewed By :Semsettin Yesilyurt 04/30/2025
Supervised By :Mahesh Dadoda 04/30/2025



#53
Toluene
Concen: 0.148 ppbv m
RT: 6.943 min Scan# 2118
Delta R.T. 0.010 min
Lab File: VL042443.D
Acq: 29 Apr 2025 13:11

Tgt Ion: 91 Resp: 5909
Ion Ratio Lower Upper
91 100
92 61.4 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Instrument :

MSVOA_L

ClientSampleId :

B-1

Tgt Ion:117 Resp: 265424

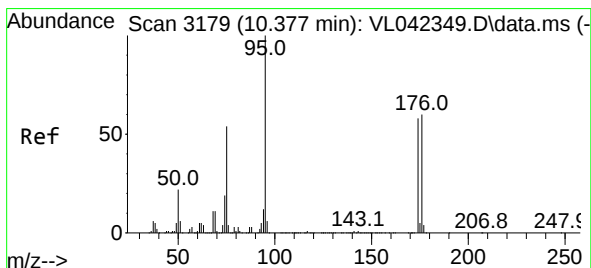
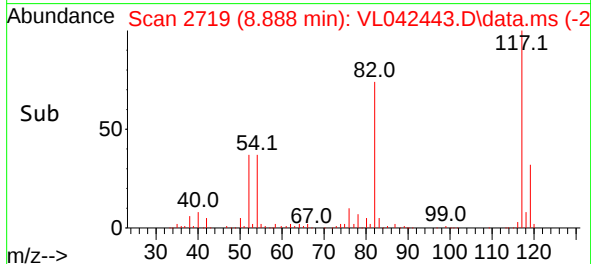
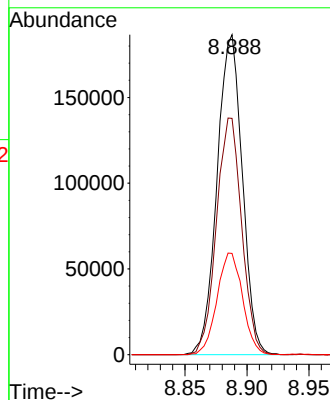
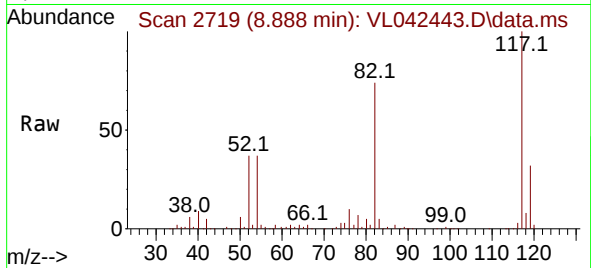
Ion	Ratio	Lower	Upper
117	100		
82	73.9	57.8	86.6
119	32.1	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025

Supervised By :Mahesh Dadoda 04/30/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 11.031 ppbv

RT: 10.380 min Scan# 3180

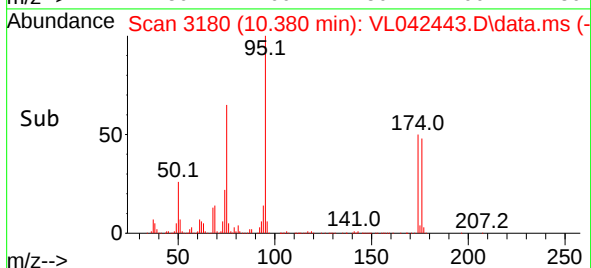
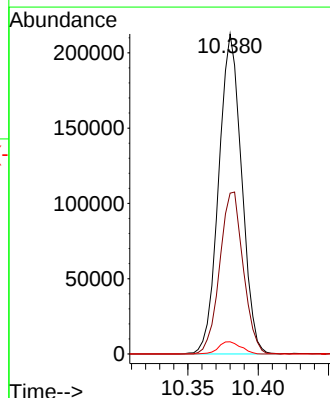
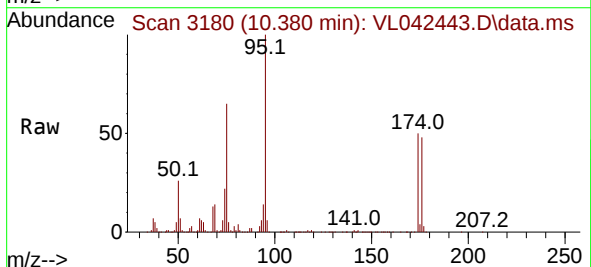
Delta R.T. 0.003 min

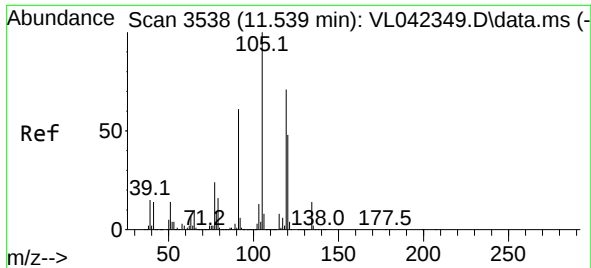
Lab File: VL042443.D

Acq: 29 Apr 2025 13:11

Tgt Ion: 95 Resp: 240596

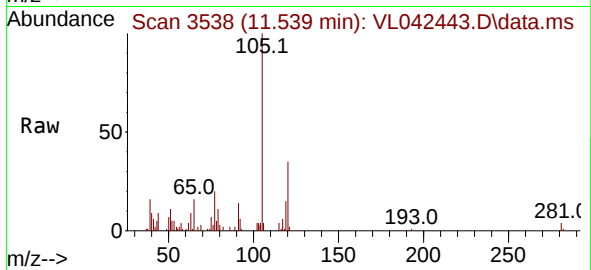
Ion	Ratio	Lower	Upper
95	100		
174	52.0	48.5	72.7
175	3.7	3.7	5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.133 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VL042443.D
 Acq: 29 Apr 2025 13:11

Instrument : MSVOA_L
 ClientSampleId : B-1



Tgt Ion:	105	Resp:	714
Ion	Ratio	Lower	Upper
105	100		
120	33.3	38.1	57.1
91	12.7	48.8	73.2
77	19.0	19.0	28.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/30/2025
 Supervised By :Mahesh Dadoda 04/30/2025

