

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042780.D
 Acq On : 29 Jul 2025 13:13
 Operator : SY/MD
 Sample : Q2712-03 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:10:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	149648	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	397221	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	391610	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	307367	9.911	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						Qvalue
10) Heptane	4.991	43	44714	1.770	ppbv	98
11) Trichlorofluoromethane	1.878	101	13031	0.639	ppbv	95
13) Ethanol	1.722	45	12033	16.490	ppbv #	31
15) Acetone	1.839	43	248629	12.032	ppbv	100
19) Isopropyl Alcohol	1.891	45	8436m	0.768	ppbv	
26) Hexane	2.829	57	136934	6.825	ppbv #	41
29) Chloroform	2.852	83	44204	1.426	ppbv	91
34) 2-Butanone	2.564	43	14645	0.520	ppbv	98
36) Benzene	3.658	78	5133m	0.136	ppbv	
38) Trichloroethene	4.558	130	793m	0.044	ppbv	
41) Tetrahydrofuran	3.072	42	2839	0.198	ppbv	95
51) 2-Hexanone	7.438	43	88180	3.219	ppbv #	58
52) Tetrachloroethene	8.234	164	98048	6.283	ppbv	97
53) Toluene	6.943	91	75371	1.864	ppbv	99
58) Ethyl Benzene	9.361	91	25341	0.410	ppbv	98
59) m/p-Xylene	9.542	91	142931m	2.892	ppbv	
60) o-Xylene	9.972	91	51884	1.051	ppbv	96
62) Isopropylbenzene	10.545	105	15964	0.219	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	24049	0.454	ppbv #	61

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

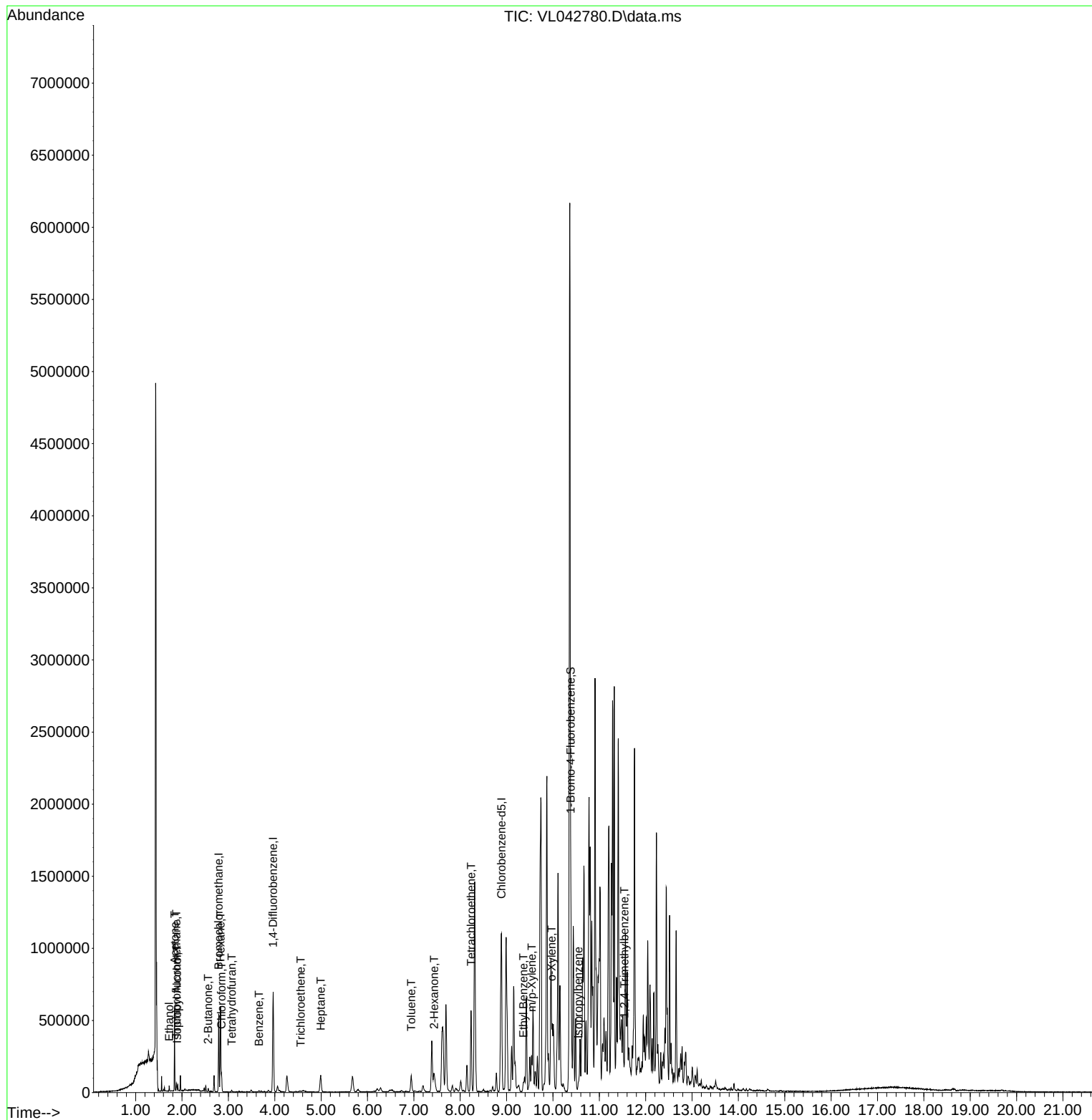
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
Data File : VL042780.D
Acq On : 29 Jul 2025 13:13
Operator : SY/MD
Sample : Q2712-03 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

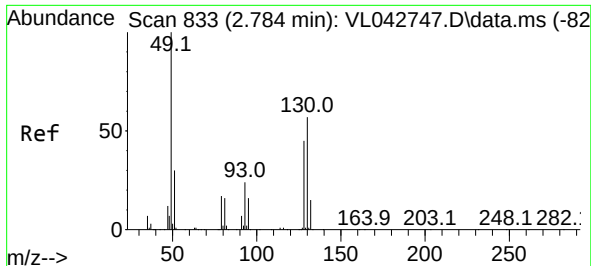
Instrument :
MSVOA_L
ClientSampleId :
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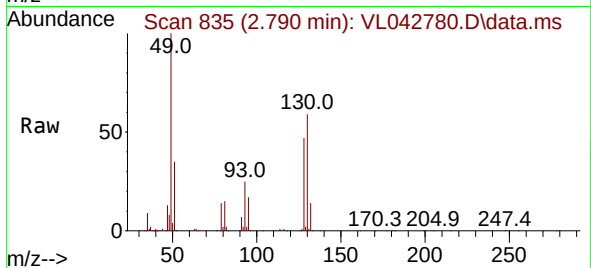
Quant Time: Jul 30 01:10:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

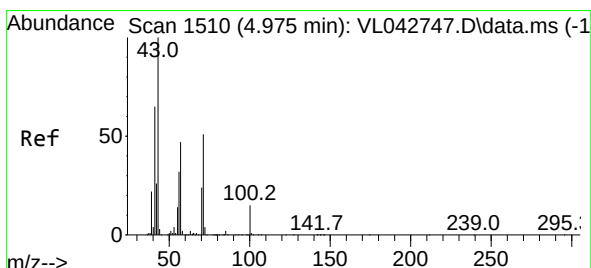
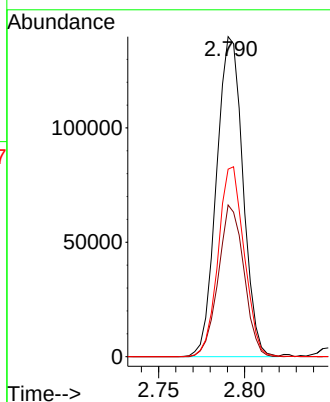
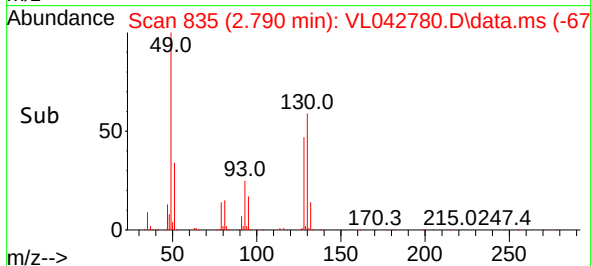
Instrument :
MSVOA_L
ClientSampleId :
SV3



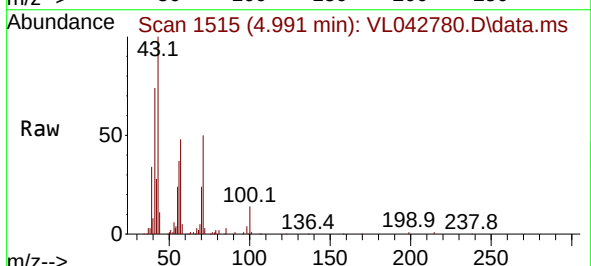
Tgt Ion: 49 Resp: 149648
Ion Ratio Lower Upper
49 100
128 45.8 23.6 71.0
130 58.5 30.3 90.8

Manual Integrations
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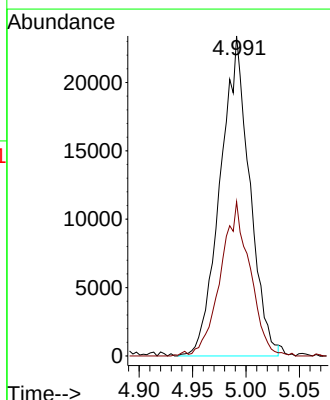
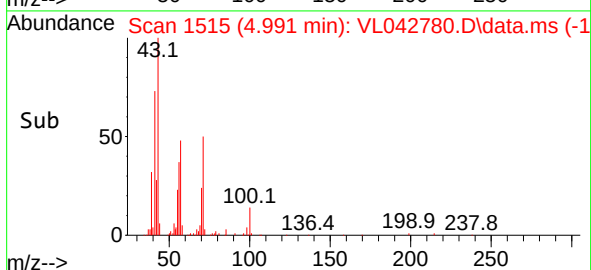
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

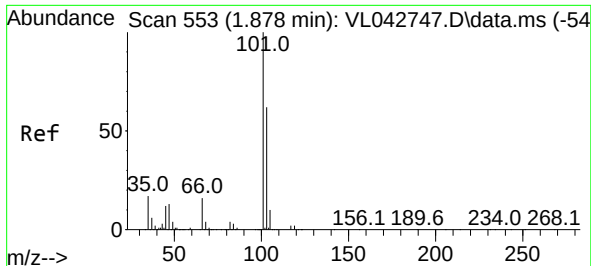


#10
Heptane
Concen: 1.770 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.016 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13



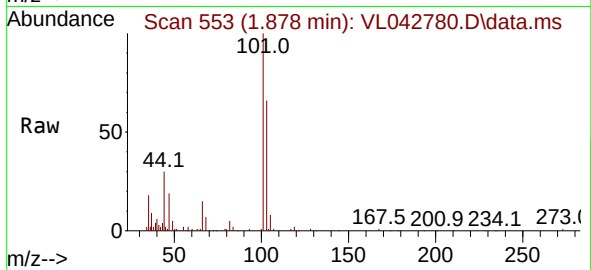
Tgt Ion: 43 Resp: 44714
Ion Ratio Lower Upper
43 100
57 48.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.639 ppbv
RT: 1.878 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

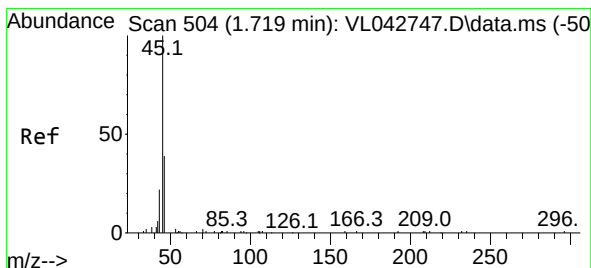
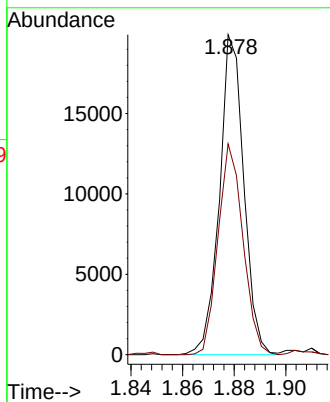
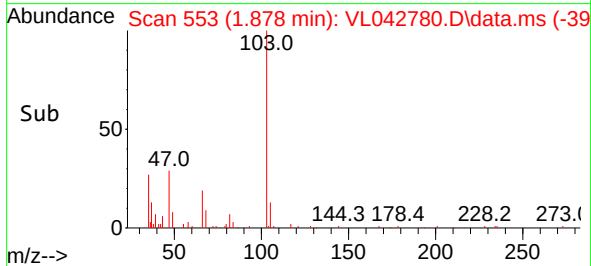
Instrument :
MSVOA_L
ClientSampleId :
SV3



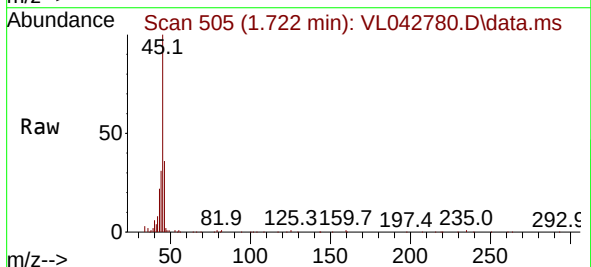
Tgt Ion:101 Resp: 1303
Ion Ratio Lower Upper
101 100
103 65.9 49.6 74.4

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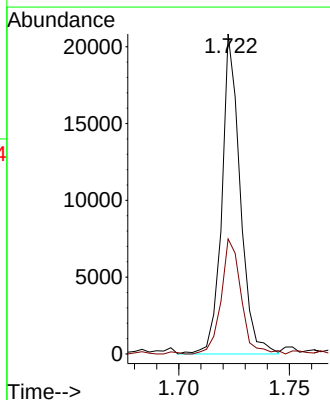
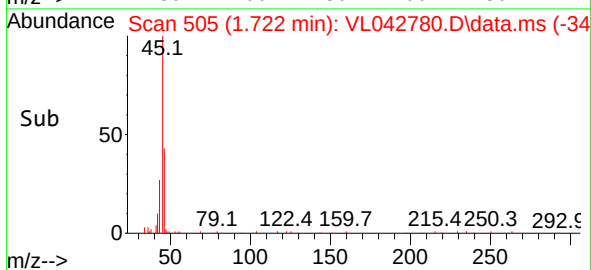
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

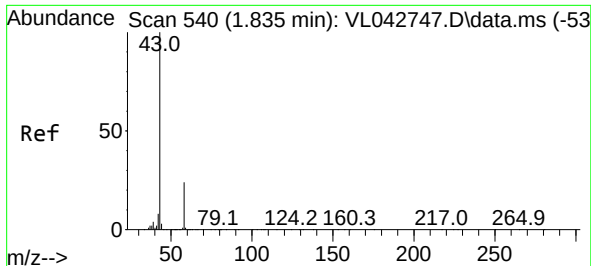


#13
Ethanol
Concen: 16.490 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13



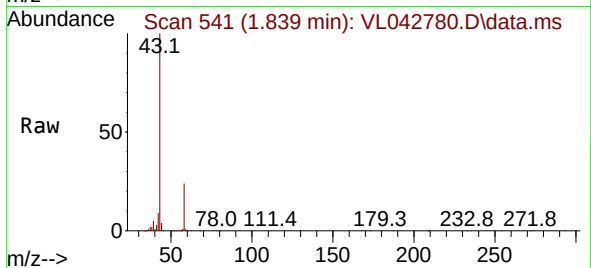
Tgt Ion: 45 Resp: 12033
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4#





#15
Acetone
Concen: 12.032 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

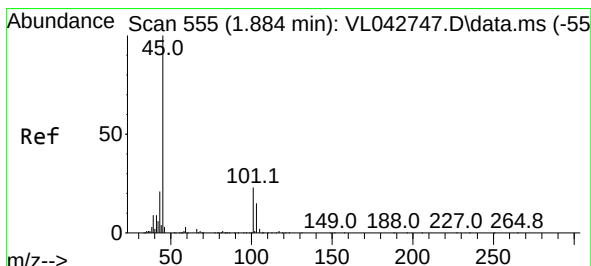
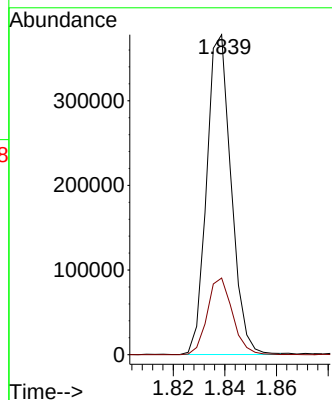
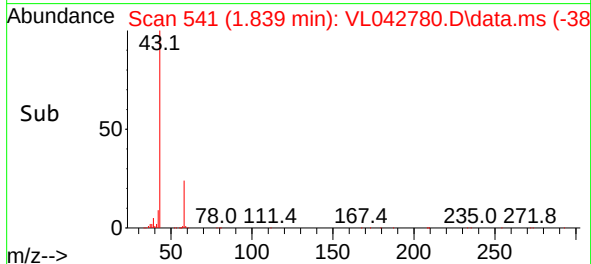
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 43 Resp: 248629
Ion Ratio Lower Upper
43 100
58 24.7 19.8 29.8

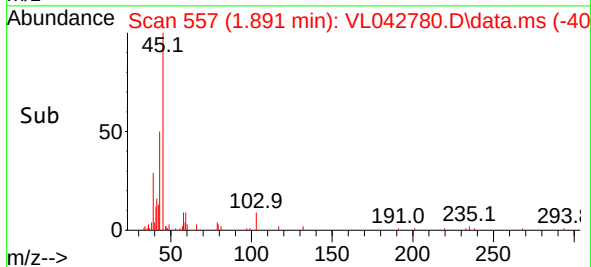
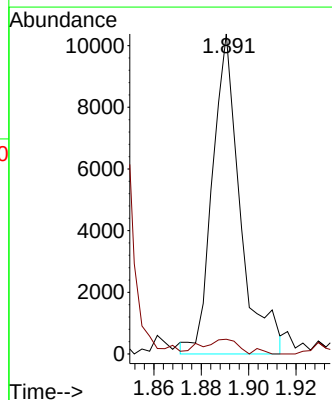
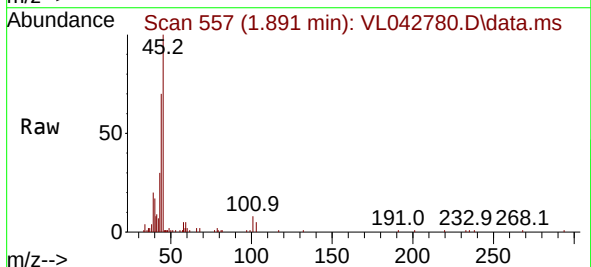
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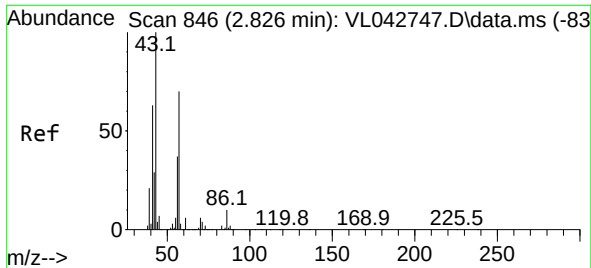
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#19
Isopropyl Alcohol
Concen: 0.768 ppbv m
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

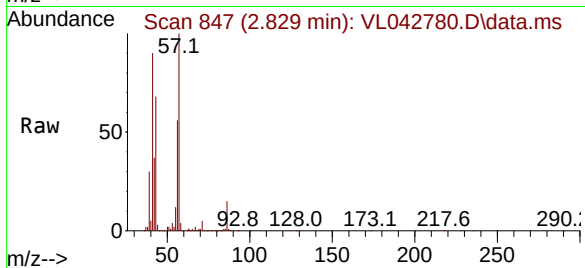
Tgt Ion: 45 Resp: 8436
Ion Ratio Lower Upper
45 100
58 0.0 30.0 45.0#





#26
Hexane
Concen: 6.825 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

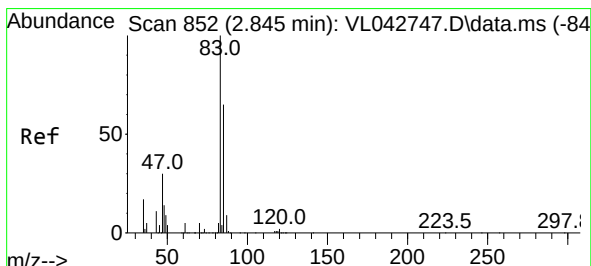
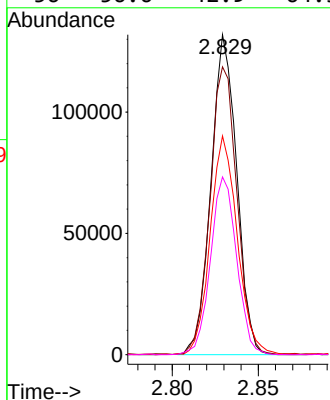
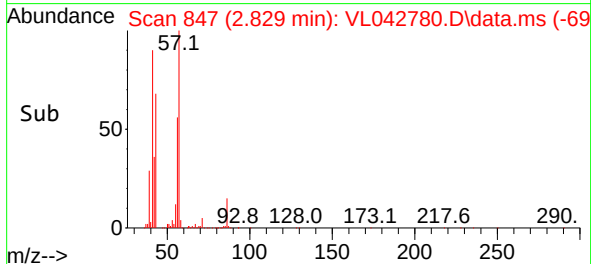
Instrument :
MSVOA_L
ClientSampleId :
SV3



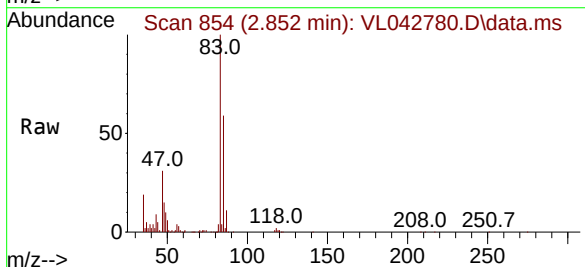
Tgt Ion: 57 Resp: 136934
Ion Ratio Lower Upper
57 100
41 95.2 75.4 113.2
43 72.8 185.0 277.6
56 56.6 42.9 64.3

Manual Integrations
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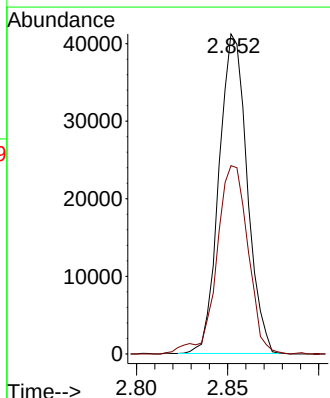
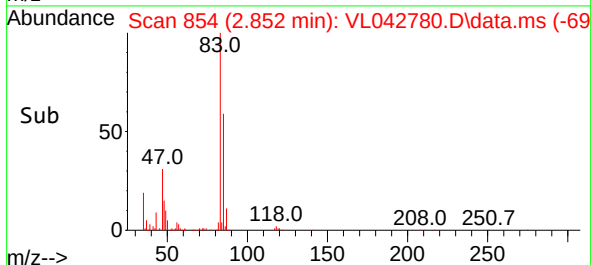
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

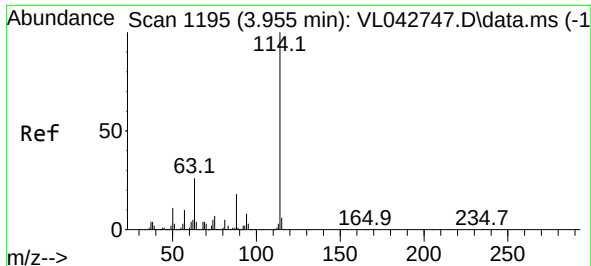


#29
Chloroform
Concen: 1.426 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13



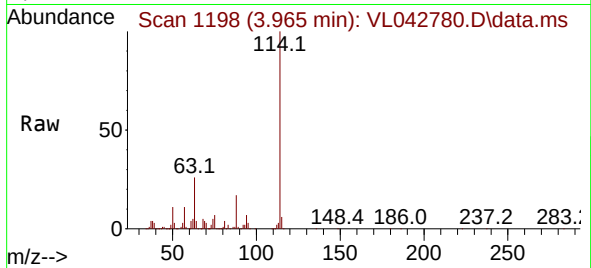
Tgt Ion: 83 Resp: 44204
Ion Ratio Lower Upper
83 100
85 58.3 52.2 78.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1195
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

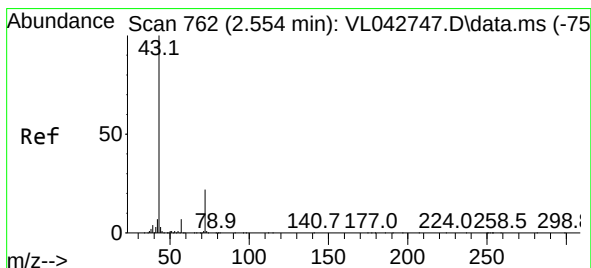
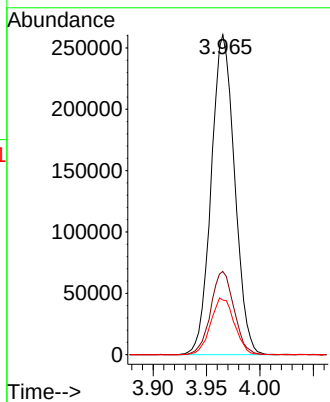
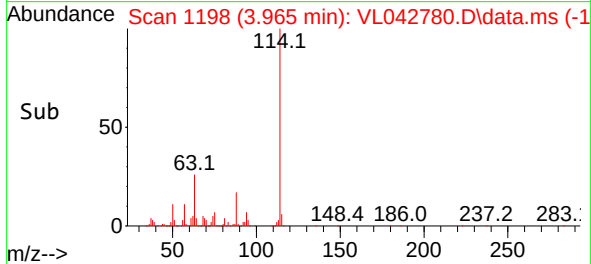
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 114 Resp: 39722
Ion Ratio Lower Upper
114 100
63 26.0 20.5 30.7
88 18.0 14.0 21.0

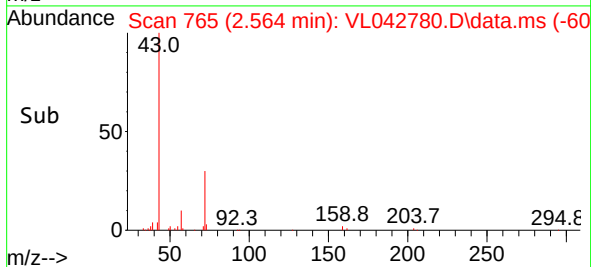
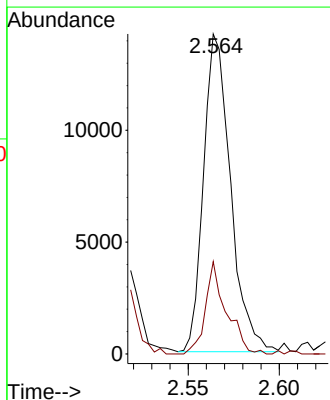
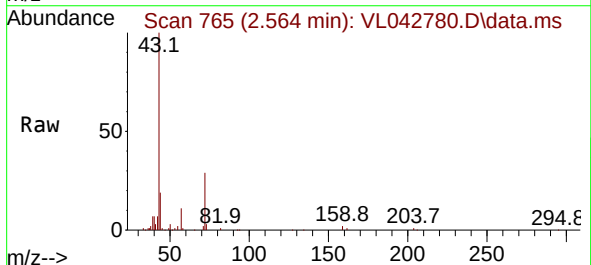
Manual Integrations
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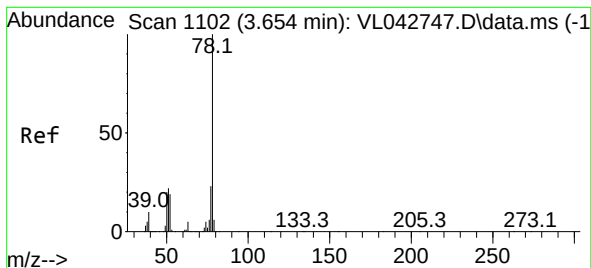
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#34
2-Butanone
Concen: 0.520 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 43 Resp: 14645
Ion Ratio Lower Upper
43 100
72 22.7 17.4 26.0





#36

Benzene

Concen: 0.136 ppbv m

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

SV3

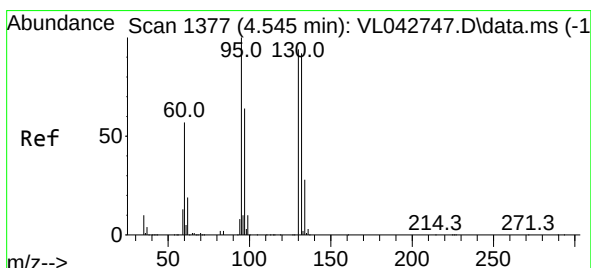
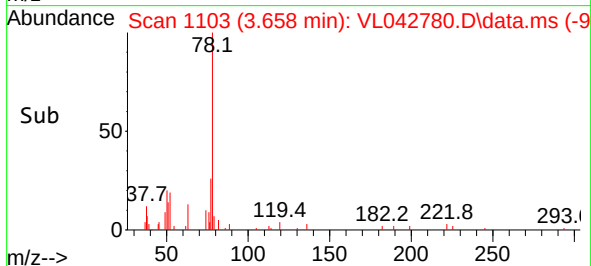
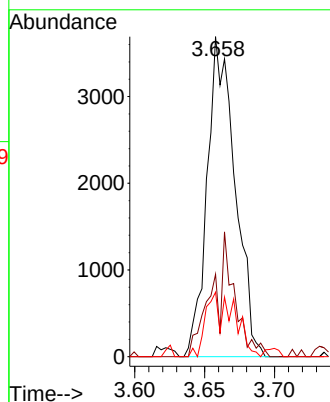
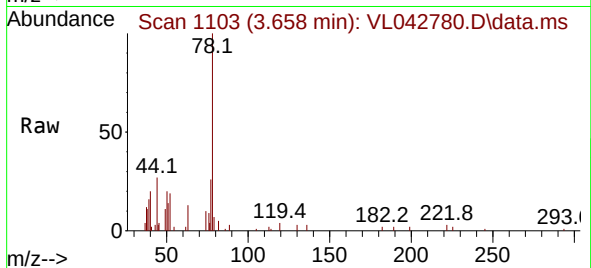
Tgt Ion: 78	Resp: 513
Ion Ratio	Lower Upper
78 100	
77 25.8	18.5 27.7
50 20.1	16.2 24.2

Manual Integrations

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Supervised By :Mahesh Dadoda 07/30/2025



#38

Trichloroethene

Concen: 0.044 ppbv m

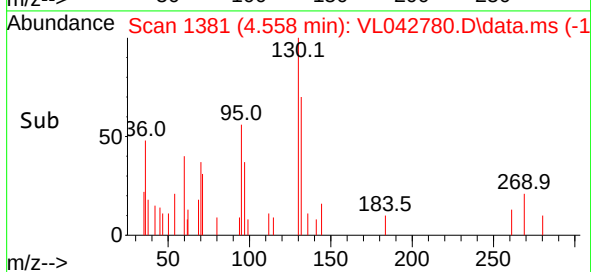
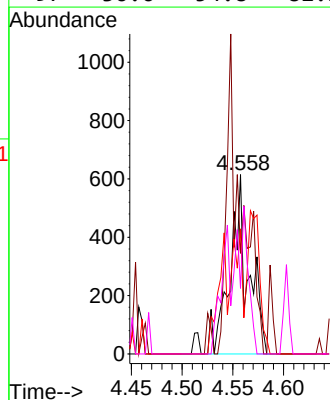
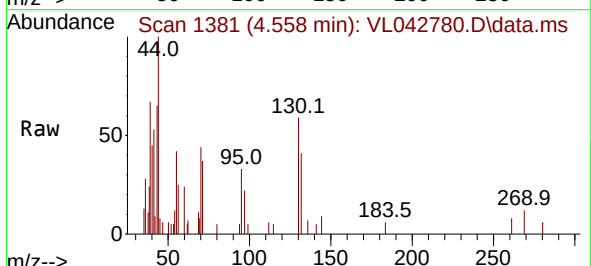
RT: 4.558 min Scan# 1381

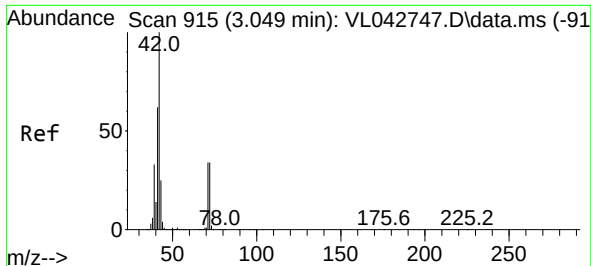
Delta R.T. 0.013 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Tgt Ion:130	Resp: 793
Ion Ratio	Lower Upper
130 100	
95 56.1	85.4 128.2#
132 69.8	78.2 117.2#
97 36.6	54.8 82.2#





#41

Tetrahydrofuran

Concen: 0.198 ppbv

RT: 3.072 min Scan# 915

Delta R.T. 0.023 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

SV3

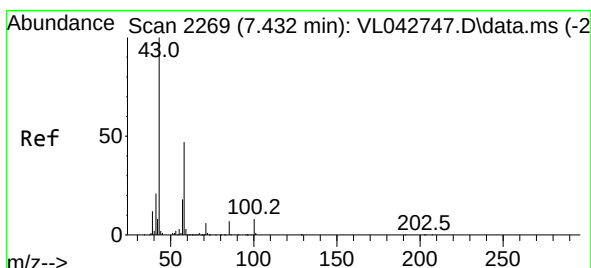
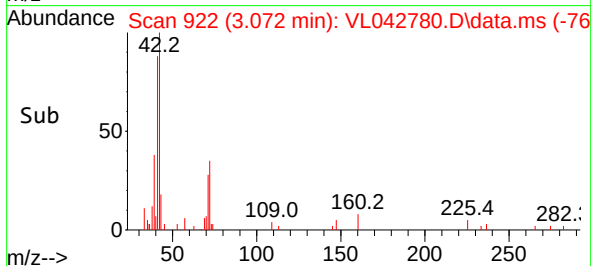
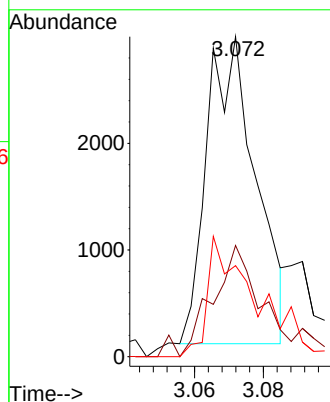
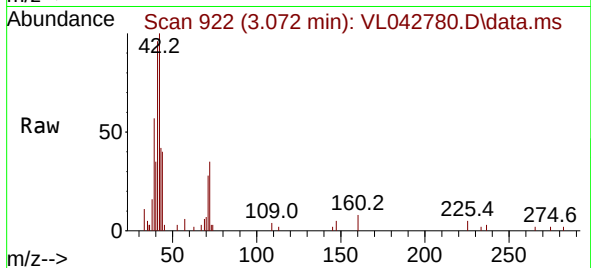
Tgt Ion:	42	Resp:	2839
Ion Ratio	Lower	Upper	
42	100		
72	39.8	30.9	46.3
71	40.2	28.6	43.0

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Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#51

2-Hexanone

Concen: 3.219 ppbv

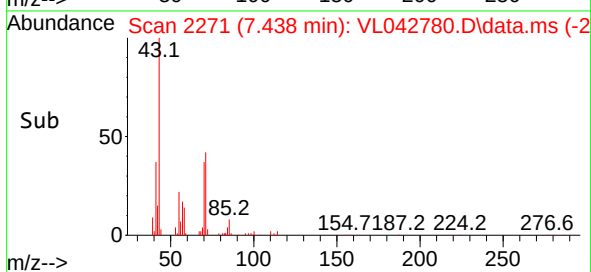
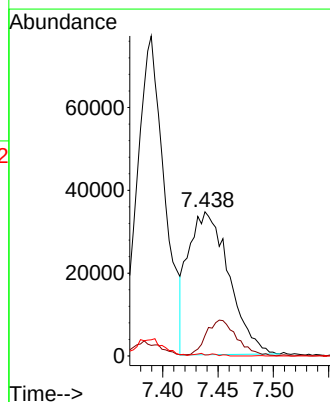
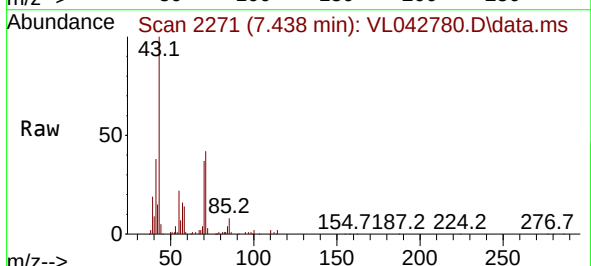
RT: 7.438 min Scan# 2271

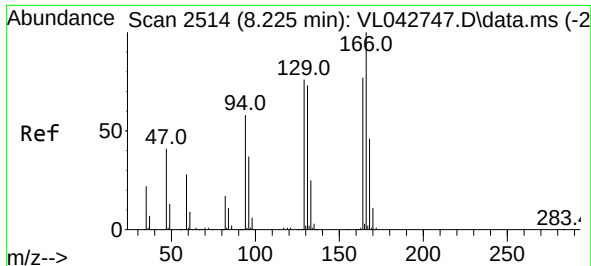
Delta R.T. 0.007 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

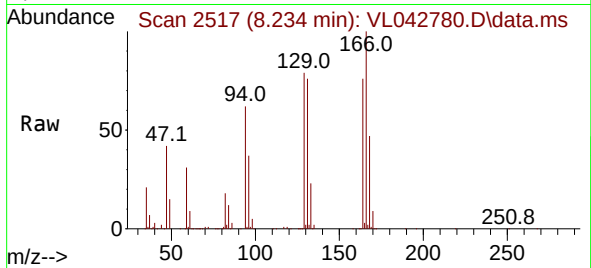
Tgt Ion:	43	Resp:	88180
Ion Ratio	Lower	Upper	
43	100		
58	19.4	38.0	57.0#
98	0.8	0.2	0.4#





#52
Tetrachloroethene
Concen: 6.283 ppbv
RT: 8.234 min Scan# 2117
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

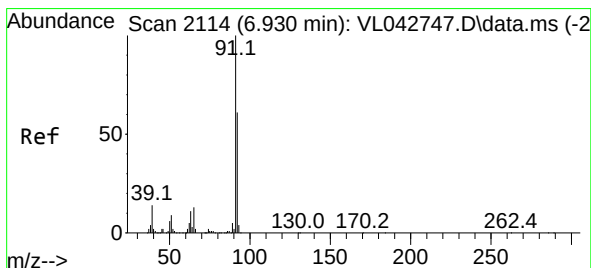
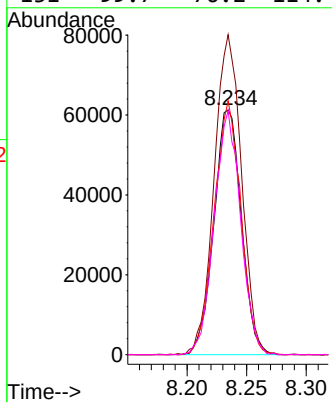
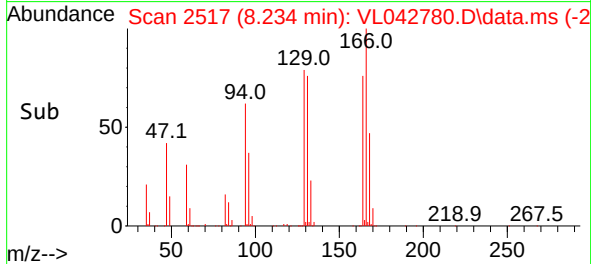
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:164 Resp: 98048
Ion Ratio Lower Upper
164 100
166 130.5 104.0 156.0
129 103.6 79.2 118.8
131 99.7 76.2 114.4

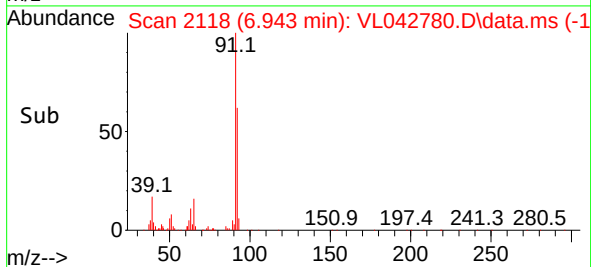
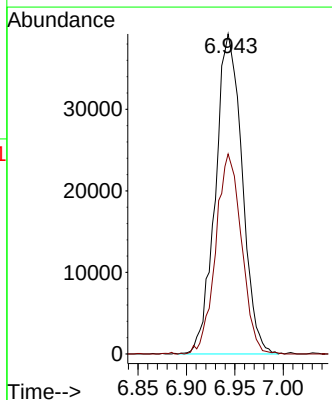
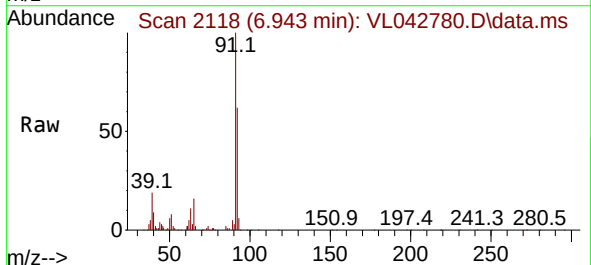
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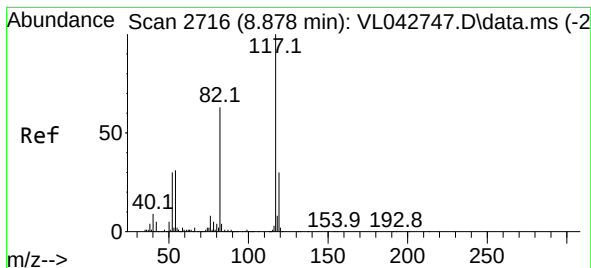
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#53
Toluene
Concen: 1.864 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 91 Resp: 75371
Ion Ratio Lower Upper
91 100
92 60.6 48.0 72.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

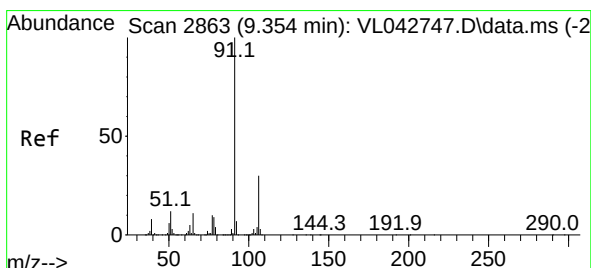
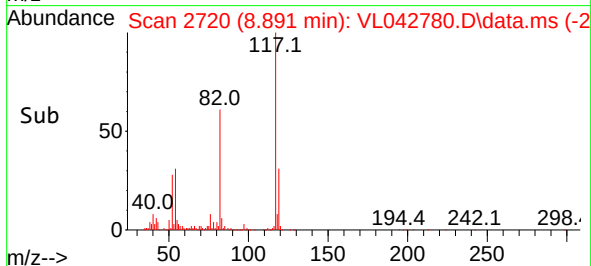
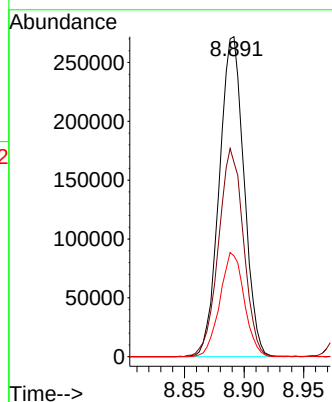
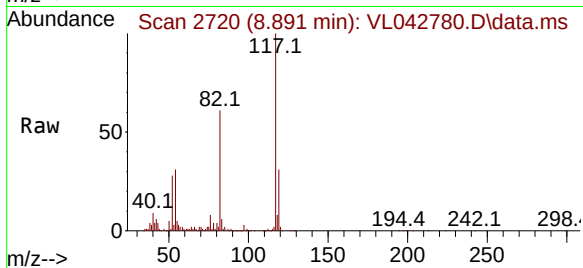
SV3

Tgt Ion:	117	Resp:	391610
Ion	Ratio	Lower	Upper
117	100		
82	66.1	53.3	79.9
119	32.1	25.8	38.6

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Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#58

Ethyl Benzene

Concen: 0.410 ppbv

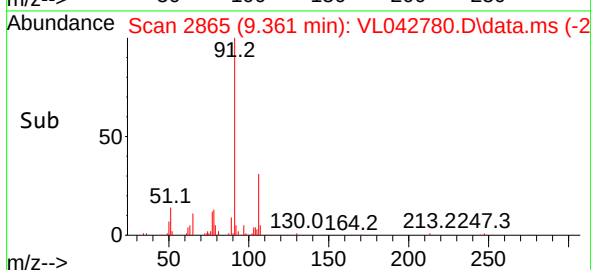
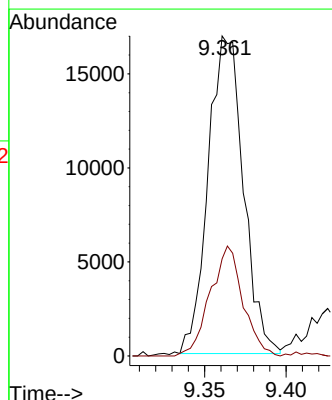
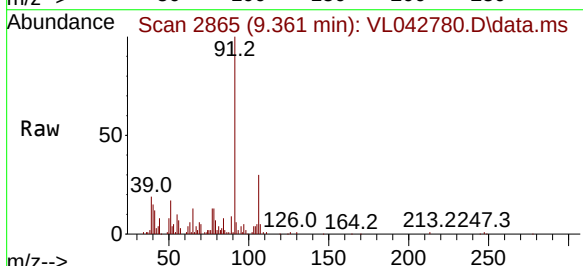
RT: 9.361 min Scan# 2865

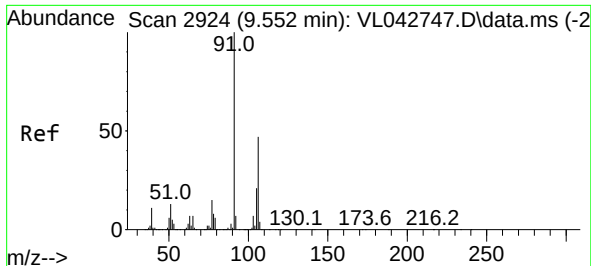
Delta R.T. 0.007 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Tgt Ion:	91	Resp:	25341
Ion	Ratio	Lower	Upper
91	100		
106	30.6	23.8	35.6





#59

m/p-Xylene

Concen: 2.892 ppbv m

RT: 9.542 min Scan# 2924

Delta R.T. -0.010 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 91 Resp: 14293

Ion Ratio Lower Upper

91 100

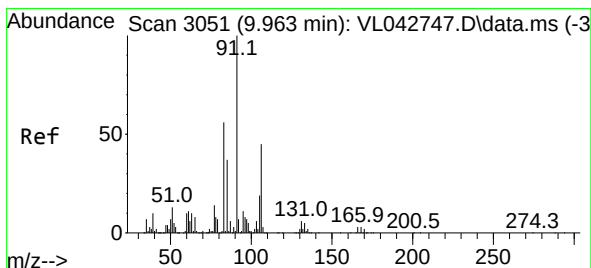
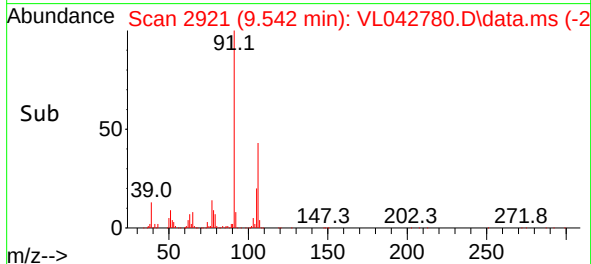
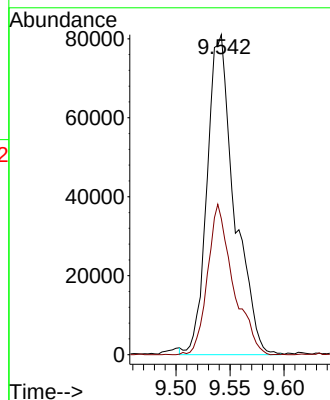
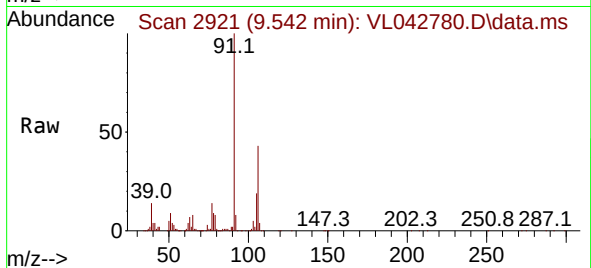
106 0.0 37.4 56.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#60

o-Xylene

Concen: 1.051 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.010 min

Lab File: VL042780.D

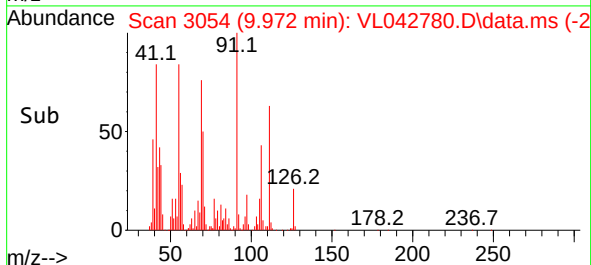
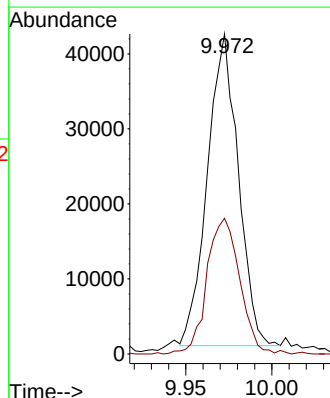
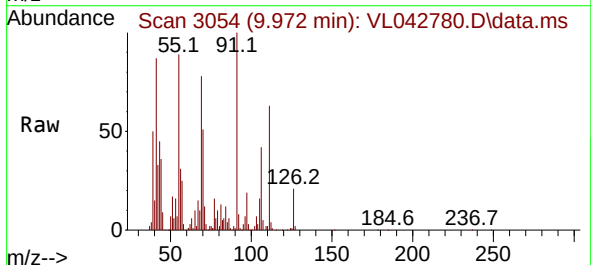
Acq: 29 Jul 2025 13:13

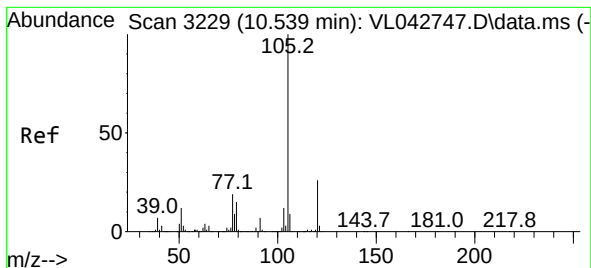
Tgt Ion: 91 Resp: 51884

Ion Ratio Lower Upper

91 100

106 46.6 22.0 66.0





#62

Isopropylbenzene

Concen: 0.219 ppbv

RT: 10.545 min Scan# 3181

Delta R.T. 0.007 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

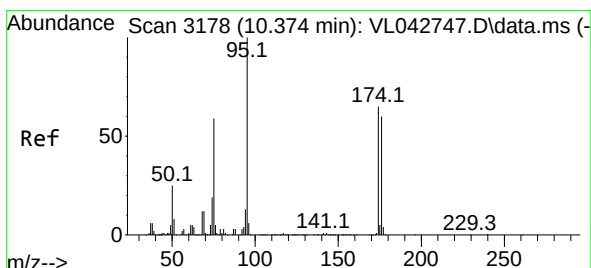
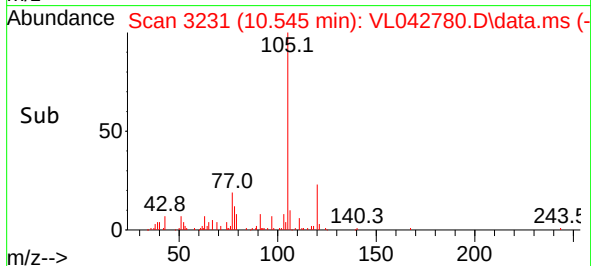
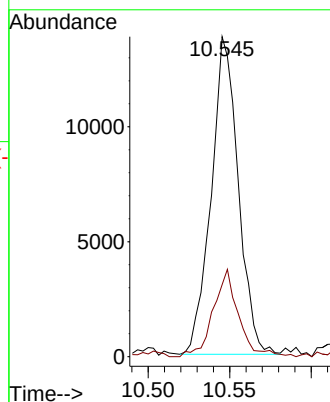
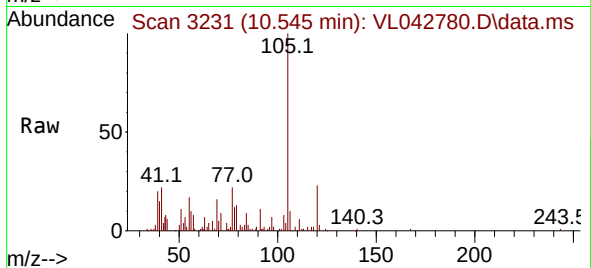
SV3

Tgt Ion:105 Resp: 15964
 Ion Ratio Lower Upper
 105 100
 120 27.2 20.5 30.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.911 ppbv

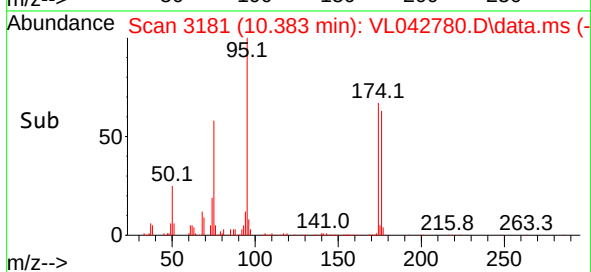
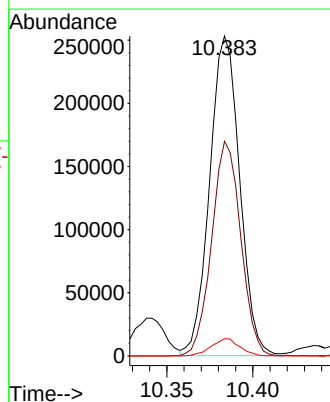
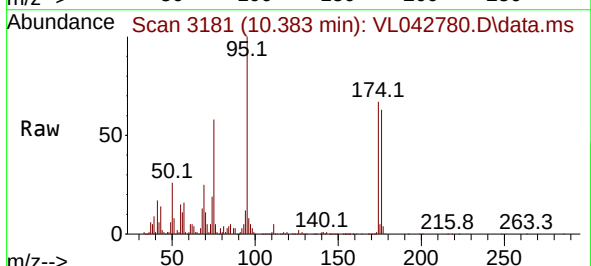
RT: 10.383 min Scan# 3181

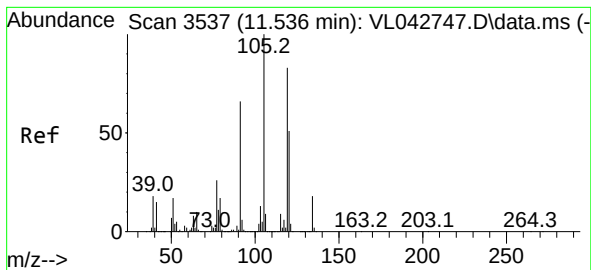
Delta R.T. 0.010 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

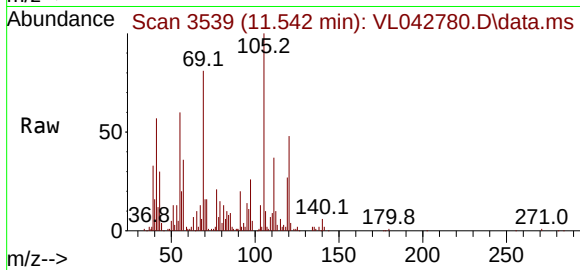
Tgt Ion: 95 Resp: 307367
 Ion Ratio Lower Upper
 95 100
 174 65.2 53.8 80.6
 175 5.2 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.454 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.007 min
 Lab File: VL042780.D
 Acq: 29 Jul 2025 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



Tgt Ion:	105	Resp:	24049
Ion Ratio	Lower	Upper	
105	100		
120	47.9	40.8	61.2
91	13.0	53.0	79.4
77	8.6	20.5	30.7

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

