

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042279.D
 Acq On : 09 Apr 2025 00:46
 Operator : SY/MD
 Sample : Q1728-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
 Supervised By :Semsettin Yesilyurt 04/10/2025

Quant Time: Apr 09 07:55:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	154351	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	392096	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.885	117	376954	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	281576	9.096	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2923	0.128	ppbv #	79
4) Chloromethane	1.535	50	1839	0.197	ppbv	94
9) Propene	1.486	41	18452	1.729	ppbv	87
10) Heptane	4.988	43	8556	0.301	ppbv	97
13) Ethanol	1.723	45	35645	35.335	ppbv	84
15) Acetone	1.836	43	1394020	64.577	ppbv	95
17) tert-Butyl alcohol	2.046	59	20709	0.770	ppbv	96
19) Isopropyl Alcohol	1.888	45	42662	3.503	ppbv #	30
20) Methylene Chloride	2.066	84	7869	0.979	ppbv	92
26) Hexane	2.829	57	11117	0.514	ppbv #	36
27) Carbon Disulfide	2.153	76	63719	2.746	ppbv #	86
29) Chloroform	2.852	83	3242	0.102	ppbv	84
30) Cyclohexane	3.862	84	2776	0.148	ppbv #	65
34) 2-Butanone	2.564	43	112551	3.959	ppbv	100
36) Benzene	3.661	78	39414	1.014	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	48596	0.740	ppbv #	79
50) 4-Methyl-2-Pentanone	5.781	43	26080m	0.579	ppbv	
53) Toluene	6.940	91	166042	3.603	ppbv	98
58) Ethyl Benzene	9.358	91	12588	0.188	ppbv #	83
59) m/p-Xylene	9.536	91	34249	0.641	ppbv	99
60) o-Xylene	9.966	91	11082	0.207	ppbv	97
61) Styrene	9.872	104	5155	0.194	ppbv	97

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

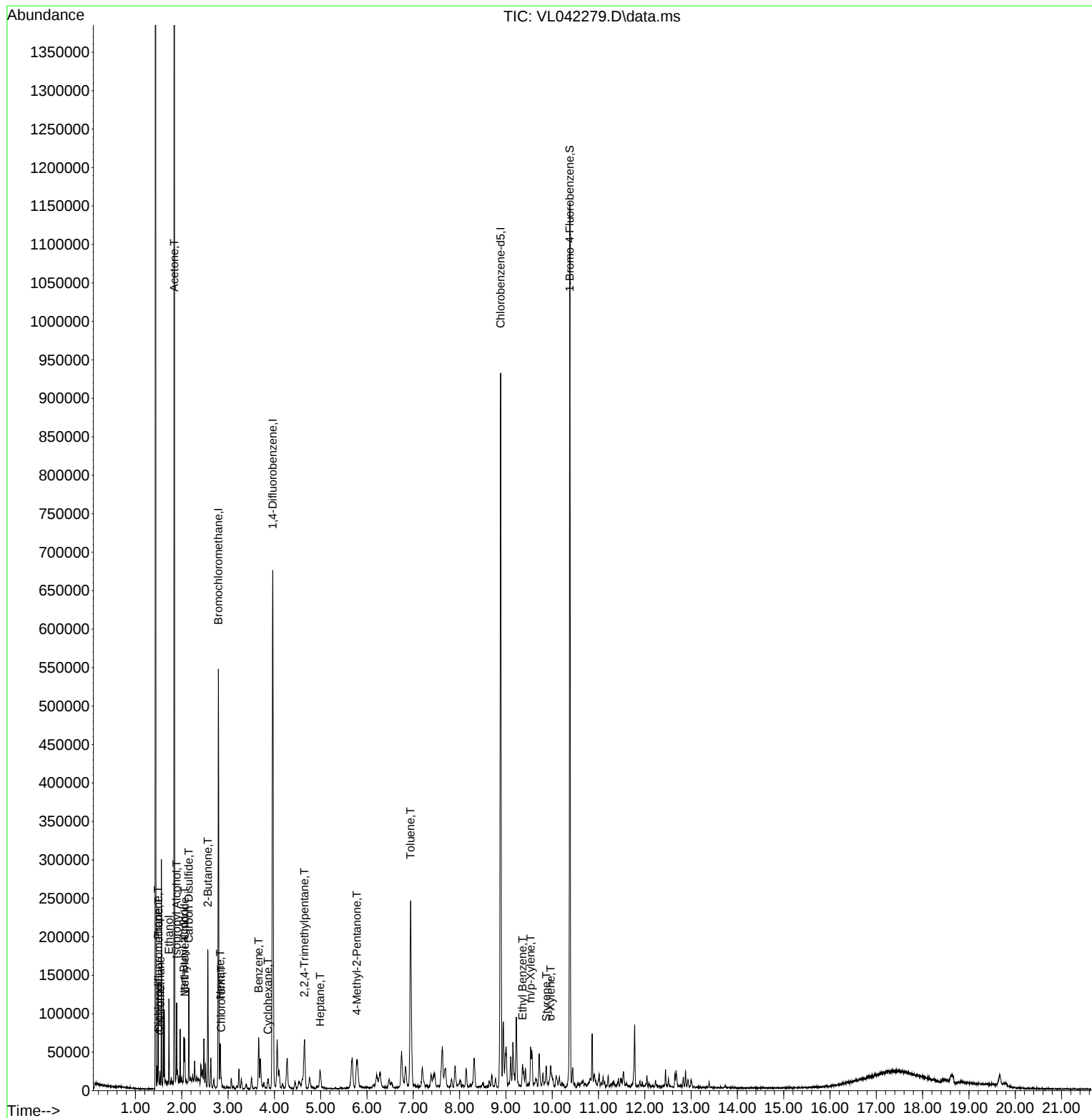
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
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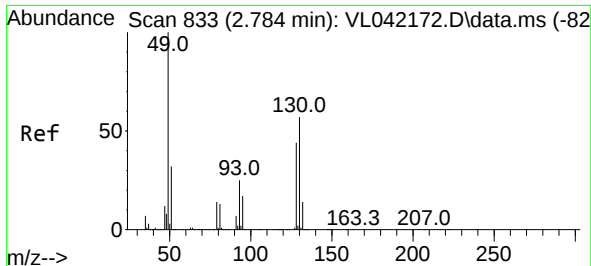
Instrument :
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SSSG-B2-7-04022025

Quant Time: Apr 09 07:55:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
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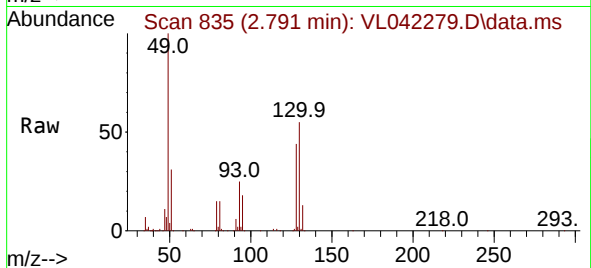
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

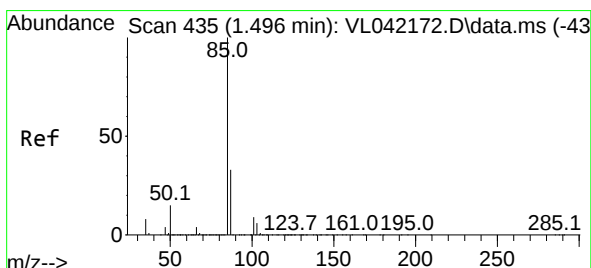
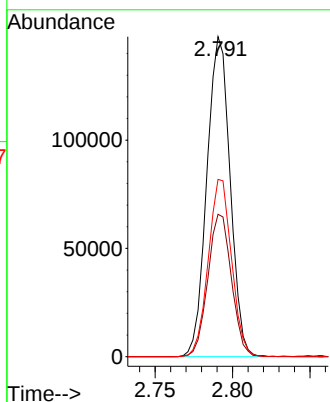
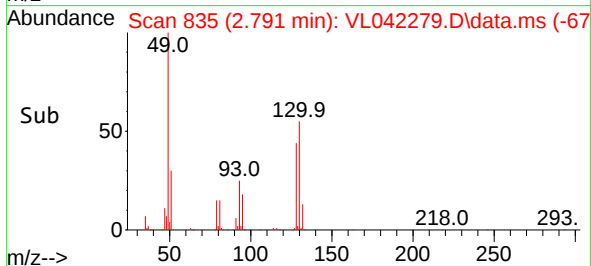
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



Tgt Ion: 49 Resp: 15435
Ion Ratio Lower Upper
49 100
128 45.2 22.9 68.5
130 55.5 28.8 86.4

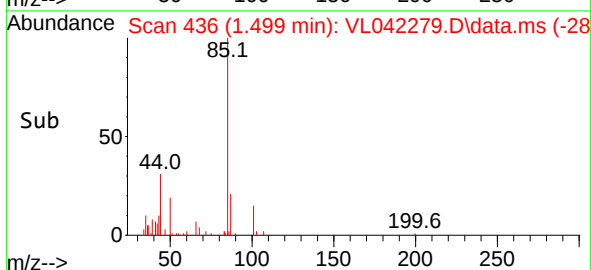
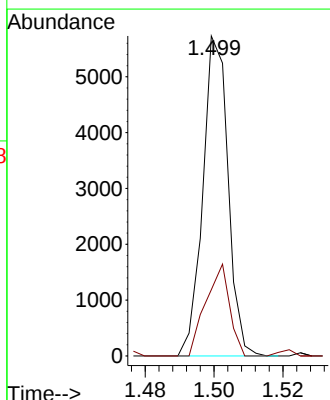
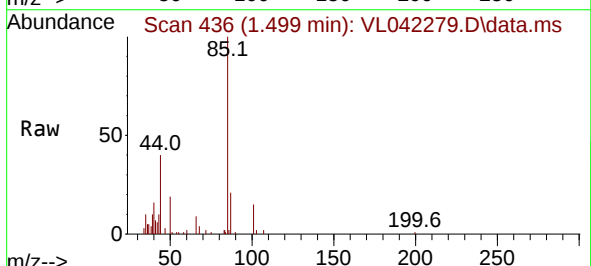
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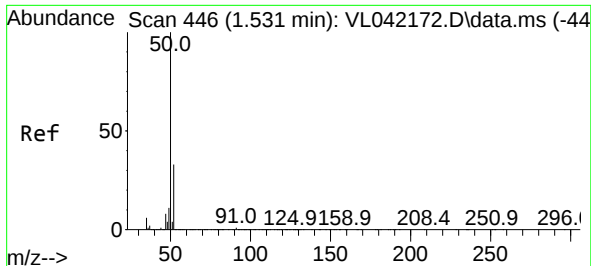
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#2
Dichlorodifluoromethane
Concen: 0.128 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

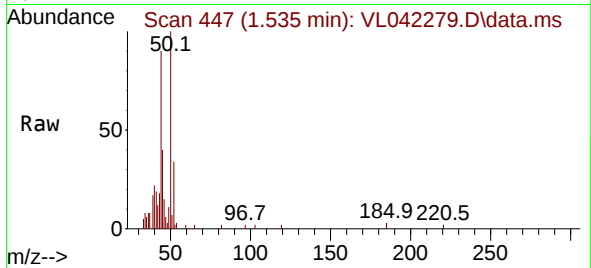
Tgt Ion: 85 Resp: 2923
Ion Ratio Lower Upper
85 100
87 20.7 26.1 39.1#





#4
Chloromethane
Concen: 0.197 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

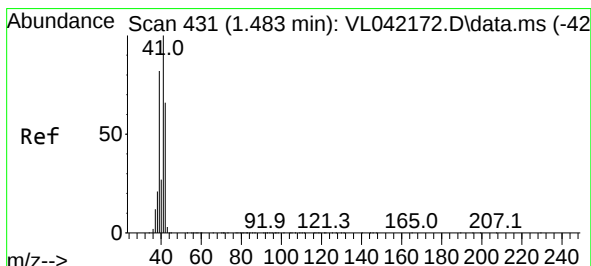
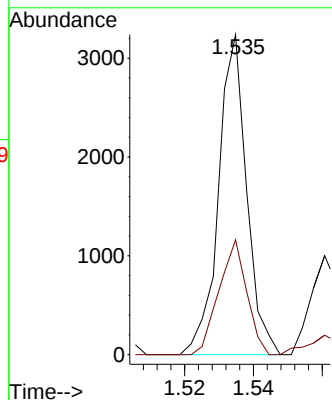
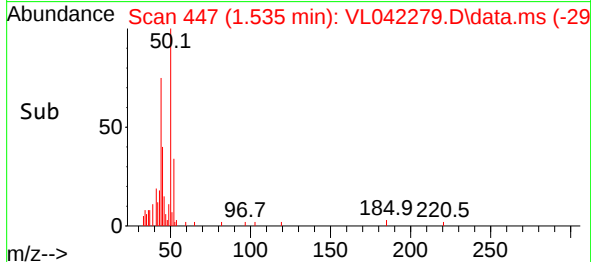
Instrument :
MSVOA_L
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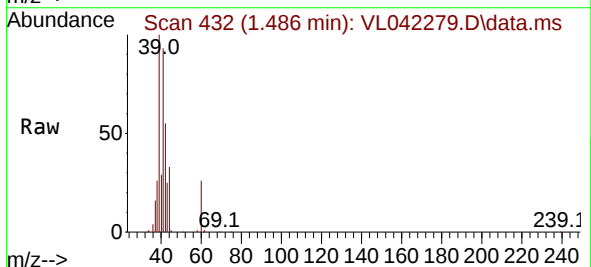
Tgt Ion: 50 Resp: 1839
Ion Ratio Lower Upper
50 100
52 35.9 26.1 39.1

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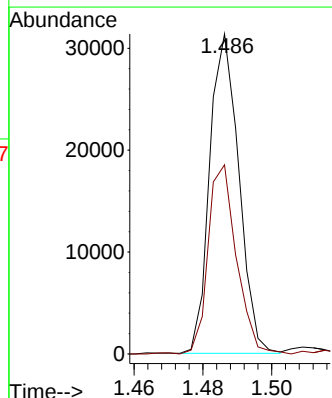
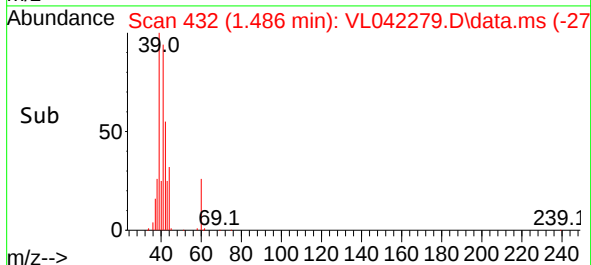
Reviewed By :Mahesh Dadoda 04/09/2025
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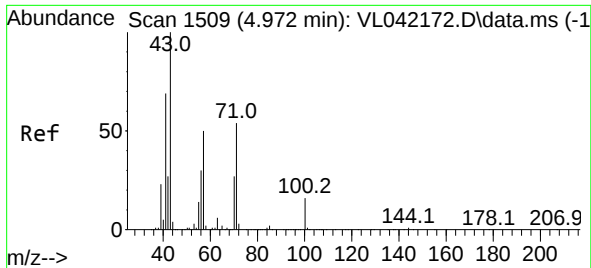


#9
Propene
Concen: 1.729 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46



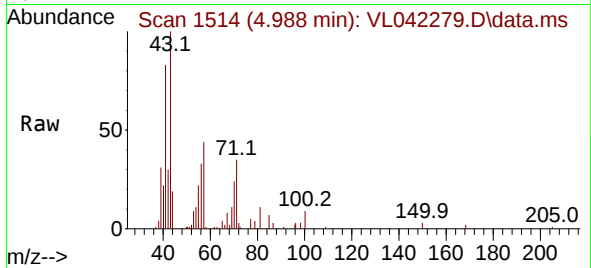
Tgt Ion: 41 Resp: 18452
Ion Ratio Lower Upper
41 100
42 58.8 55.4 83.2





#10
Heptane
Concen: 0.301 ppbv
RT: 4.988 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

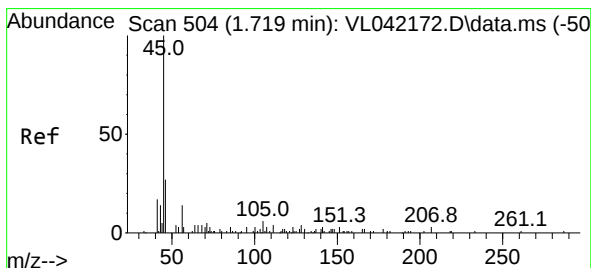
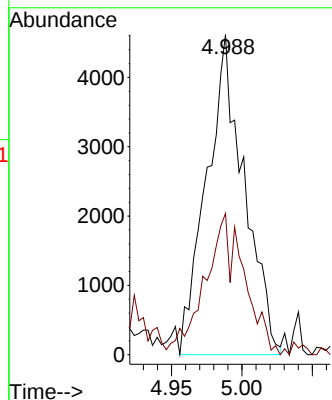
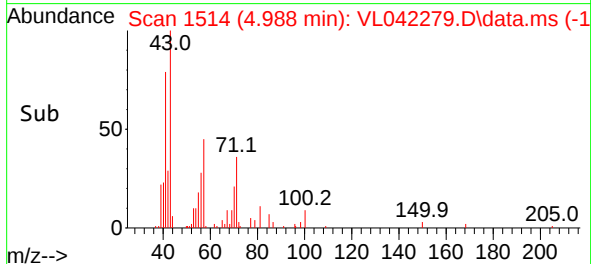
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



Tgt Ion: 43 Resp: 8550
Ion Ratio Lower Upper
43 100
57 47.5 39.4 59.2

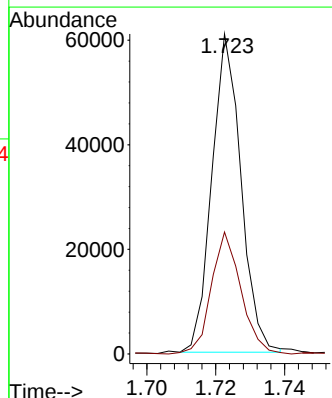
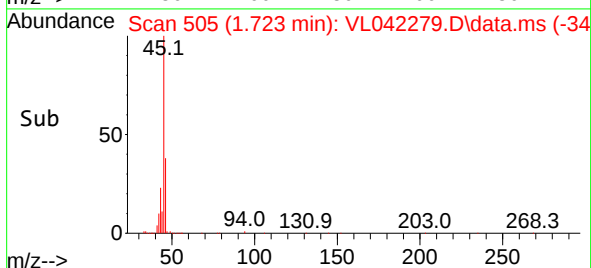
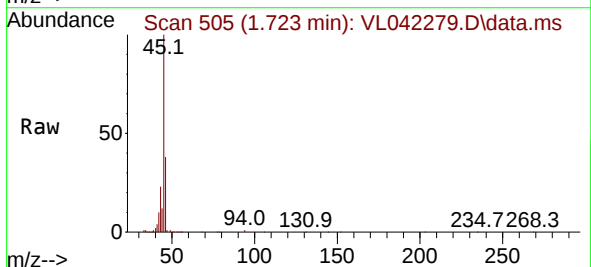
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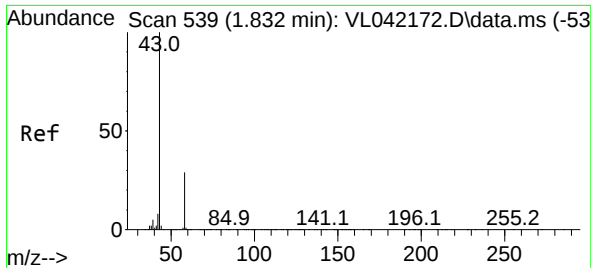
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#13
Ethanol
Concen: 35.335 ppbv
RT: 1.723 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 45 Resp: 35645
Ion Ratio Lower Upper
45 100
46 39.6 20.2 80.8





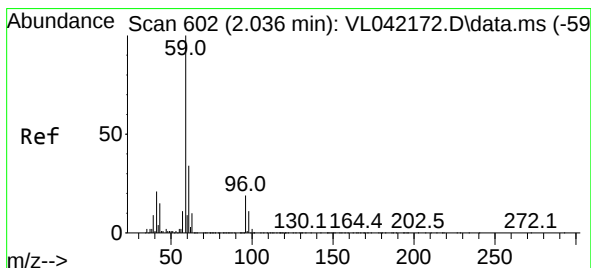
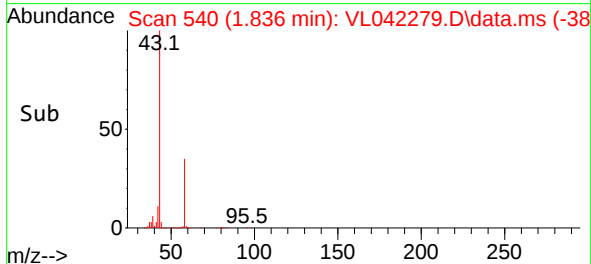
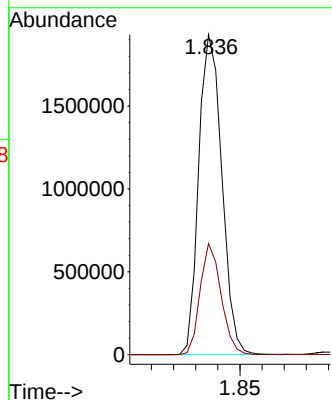
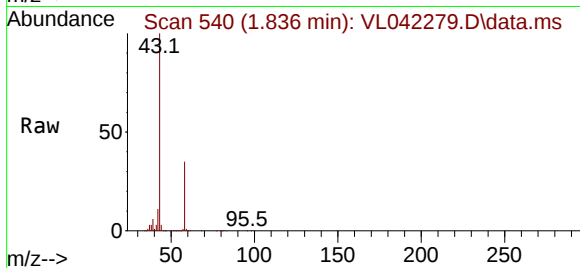
#15
Acetone
Concen: 64.577 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

Tgt Ion: 43 Resp: 1394020
Ion Ratio Lower Upper
43 100
58 31.7 23.2 34.8

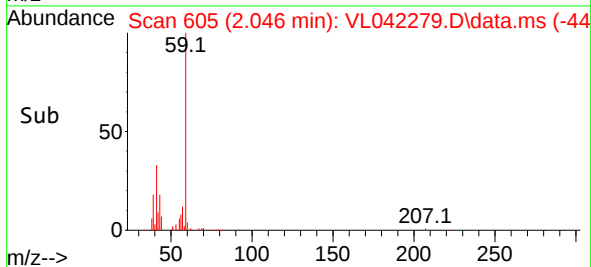
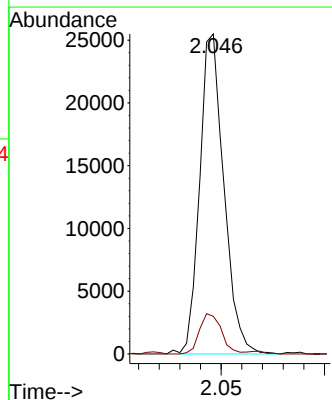
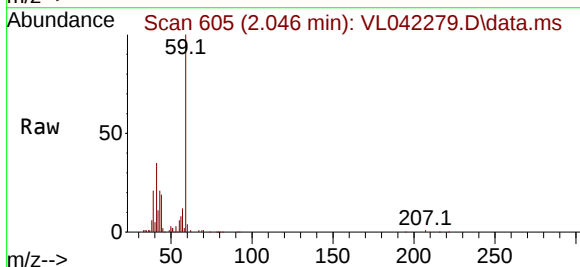
Manual Integrations
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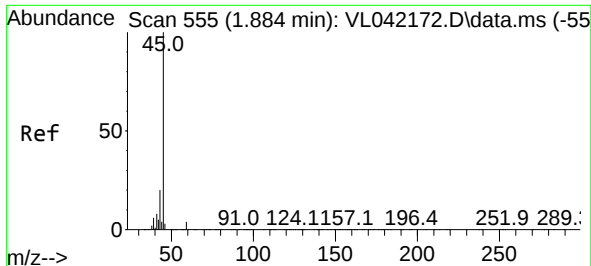
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#17
tert-Butyl alcohol
Concen: 0.770 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

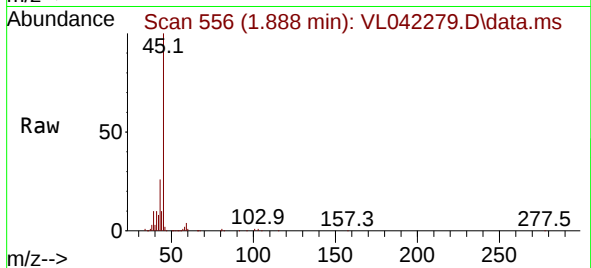
Tgt Ion: 59 Resp: 20709
Ion Ratio Lower Upper
59 100
57 12.5 8.9 13.3





#19
Isopropyl Alcohol
Concen: 3.503 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

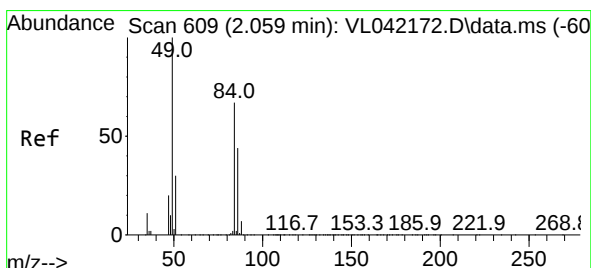
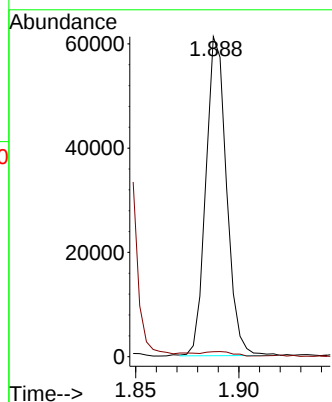
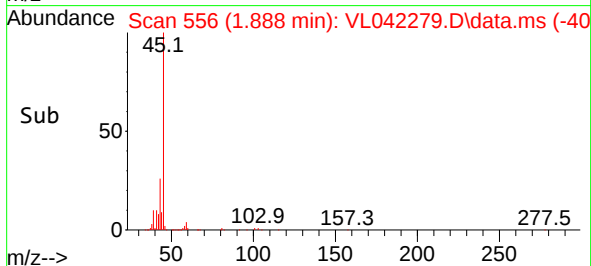
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ClientSampleId :
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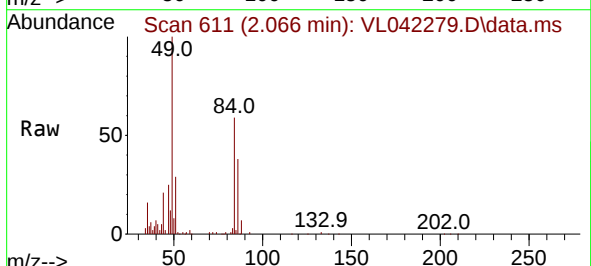
Tgt Ion: 45 Resp: 42662
Ion Ratio Lower Upper
45 100
58 0.0 36.9 55.3

Manual Integrations
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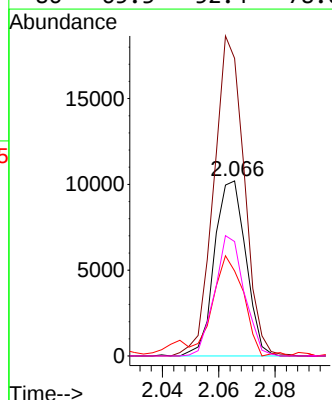
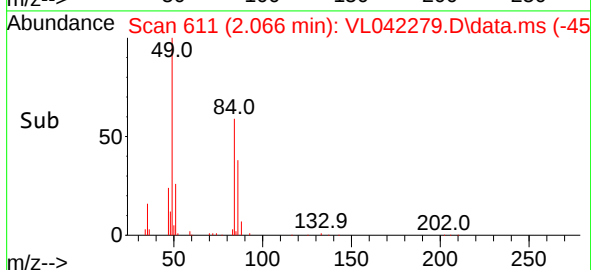
Reviewed By :Mahesh Dadoda 04/09/2025
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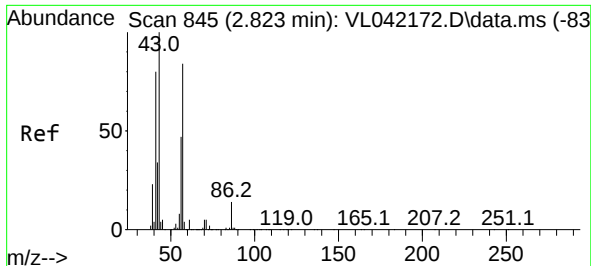


#20
Methylene Chloride
Concen: 0.979 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46



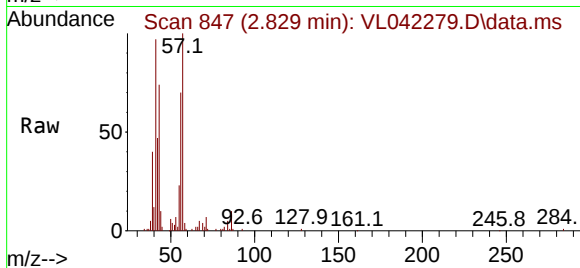
Tgt Ion: 84 Resp: 7869
Ion Ratio Lower Upper
84 100
49 168.9 120.2 180.4
51 46.6 37.4 56.0
86 65.3 52.4 78.6





#26
Hexane
Concen: 0.514 ppbv
RT: 2.829 min Scan# 845
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

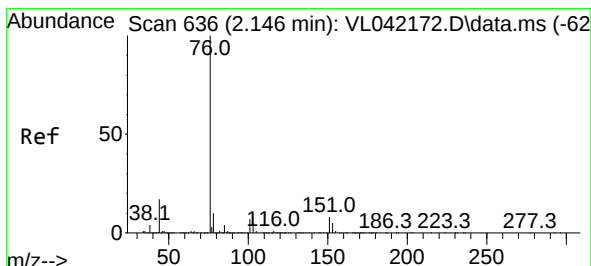
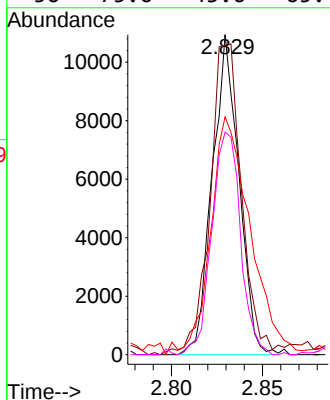
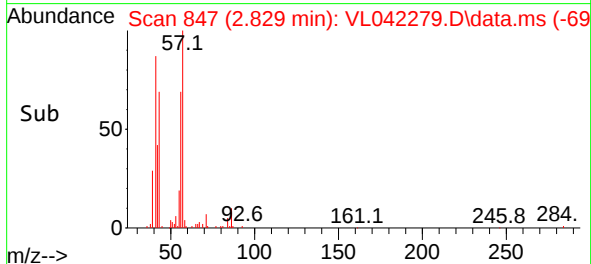
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Tgt Ion: 57 Resp: 1111
Ion Ratio Lower Upper
57 100
41 118.7 76.6 114.8
43 107.1 207.8 311.8
56 75.6 43.6 65.4#

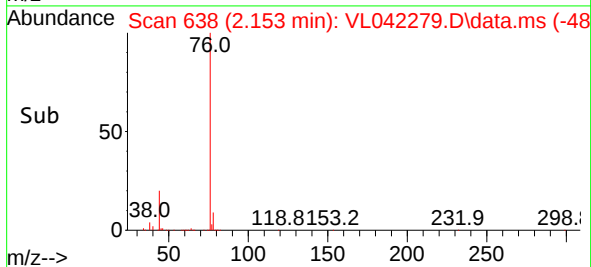
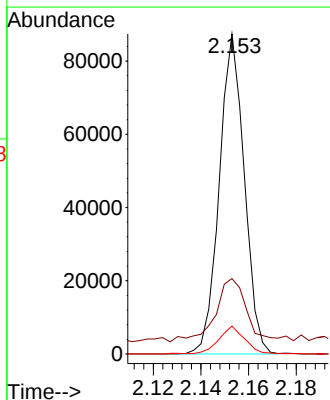
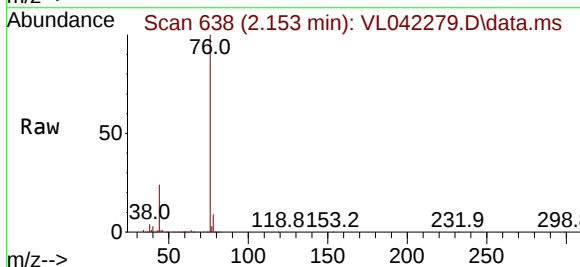
Manual Integrations
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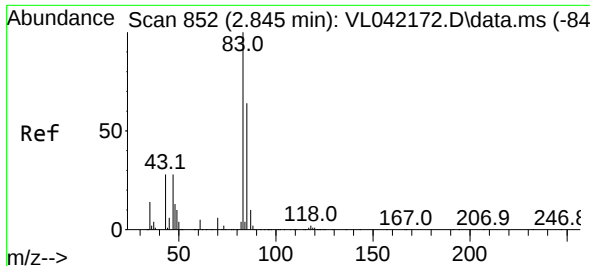
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#27
Carbon Disulfide
Concen: 2.746 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

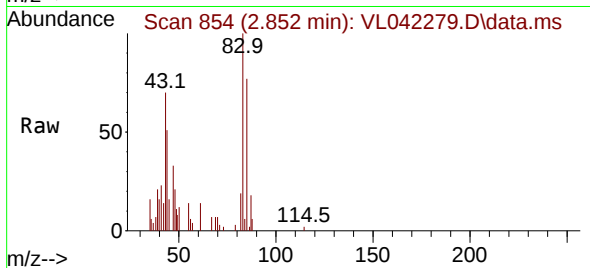
Tgt Ion: 76 Resp: 63719
Ion Ratio Lower Upper
76 100
44 27.1 14.7 22.1#
78 9.2 9.3 13.9#





#29
Chloroform
Concen: 0.102 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

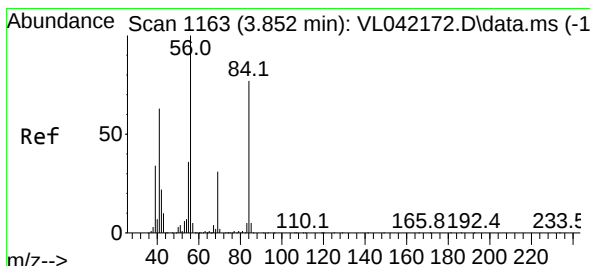
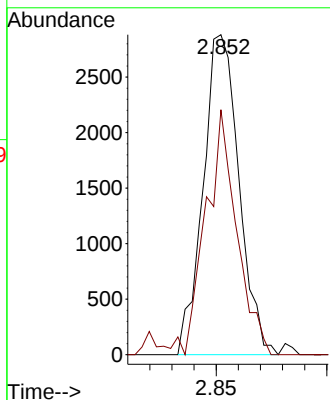
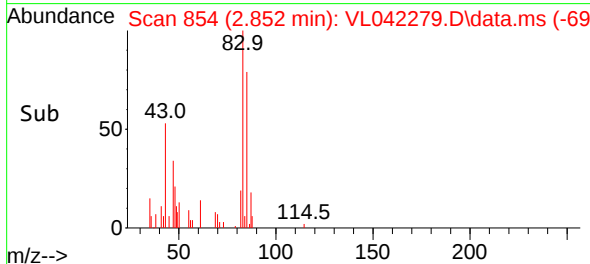
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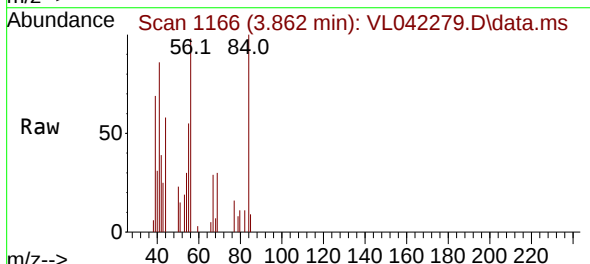
Tgt Ion: 83 Resp: 324
Ion Ratio Lower Upper
83 100
85 76.6 51.4 77.2

Manual Integrations
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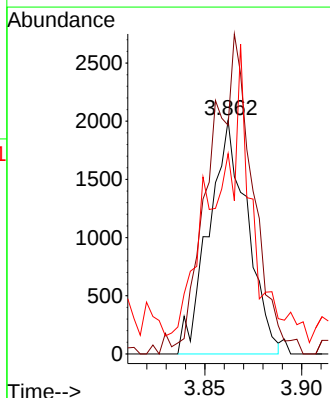
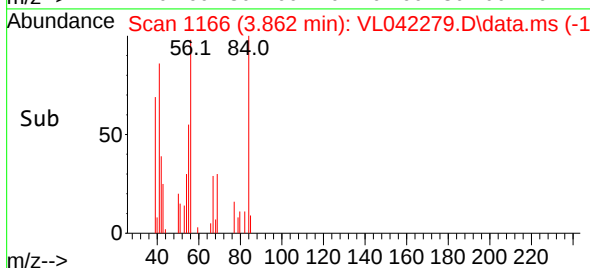
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

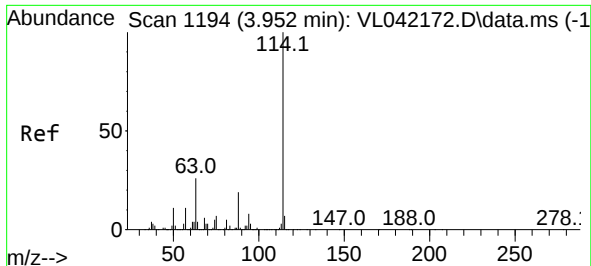


#30
Cyclohexane
Concen: 0.148 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46



Tgt Ion: 84 Resp: 2776
Ion Ratio Lower Upper
84 100
56 153.2 102.8 154.2
41 134.2 66.5 99.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.966 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042279.D

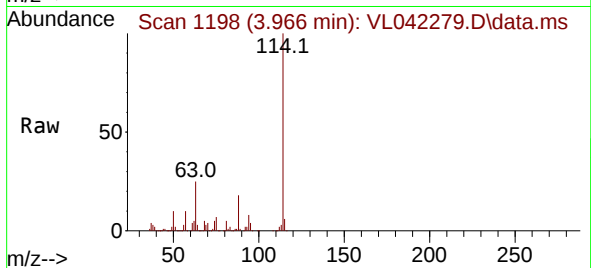
Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-7-04022025



Tgt Ion:114 Resp: 392090

Ion Ratio Lower Upper

114 100

63 25.8 20.7 31.1

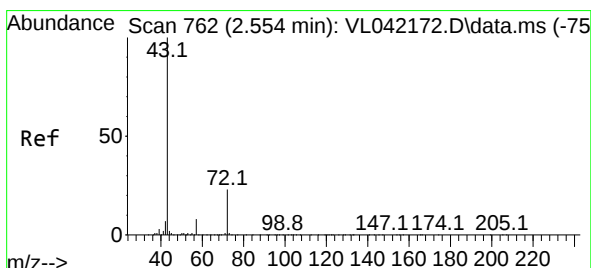
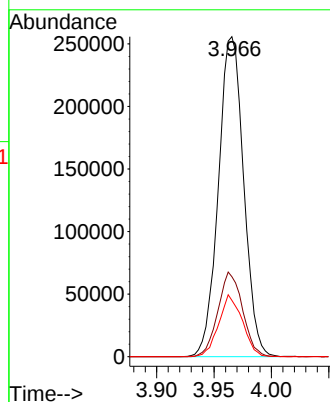
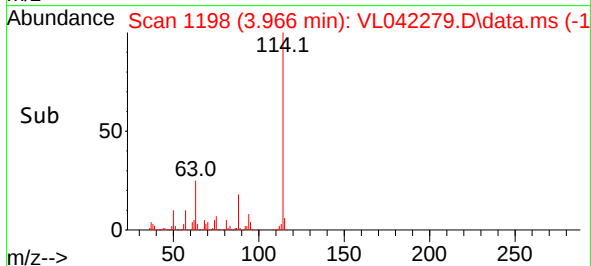
88 18.1 15.0 22.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 04/09/2025

Supervised By :Semsettin Yesilyurt 04/10/2025



#34

2-Butanone

Concen: 3.959 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042279.D

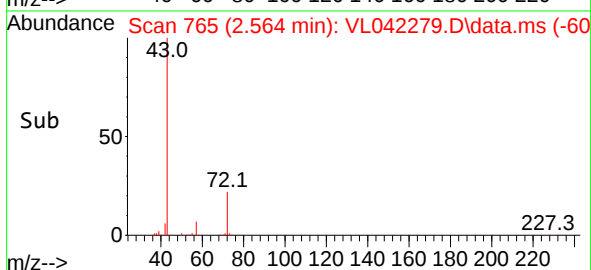
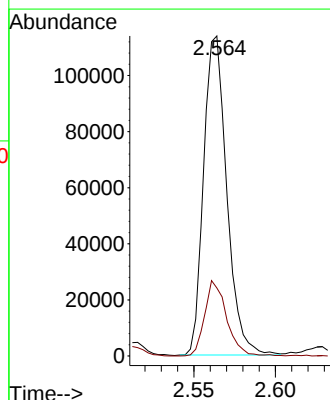
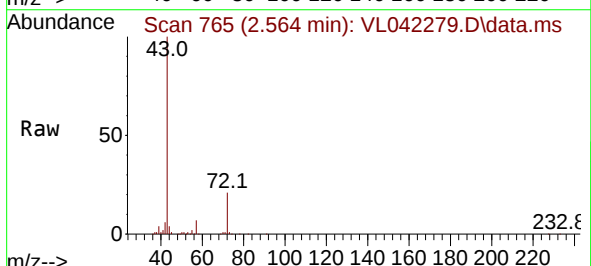
Acq: 09 Apr 2025 00:46

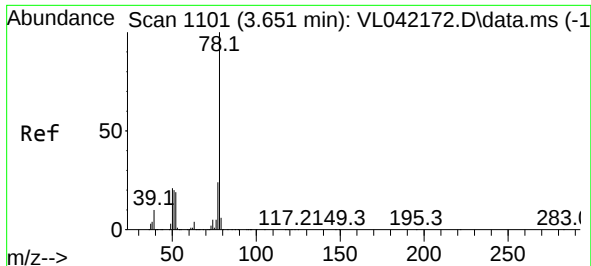
Tgt Ion: 43 Resp: 112551

Ion Ratio Lower Upper

43 100

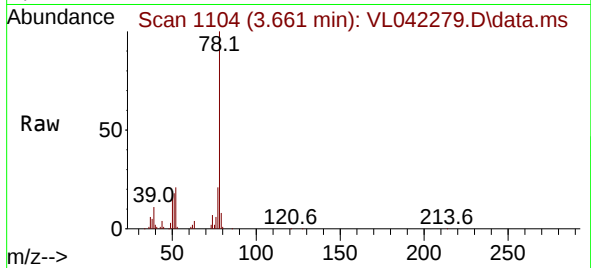
72 22.5 18.2 27.2





#36
Benzene
Concen: 1.014 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

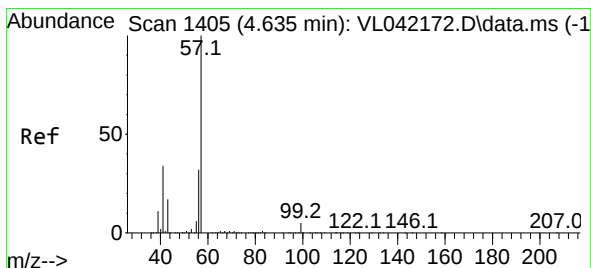
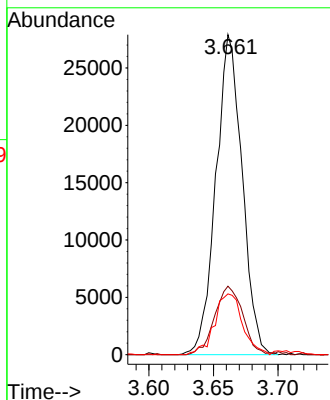
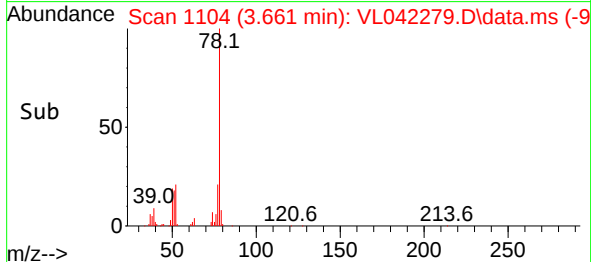
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-7-04022025



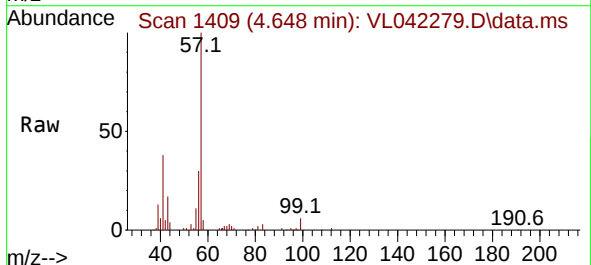
Tgt Ion: 78 Resp: 39414
Ion Ratio Lower Upper
78 100
77 21.4 19.1 28.7
50 19.0 16.6 24.8

Manual Integrations
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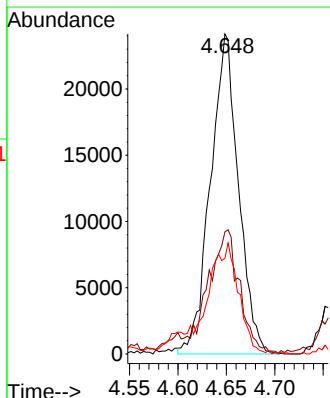
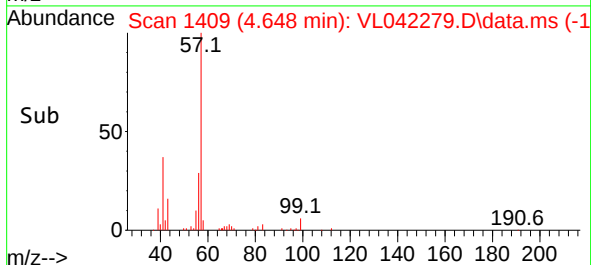
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

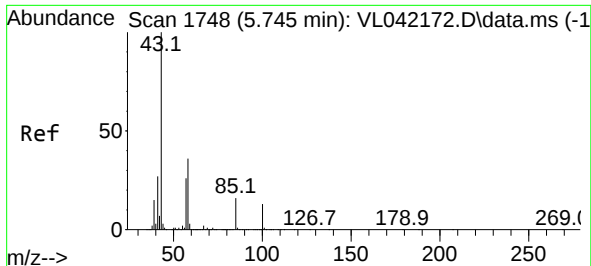


#44
2,2,4-Trimethylpentane
Concen: 0.740 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.013 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46



Tgt Ion: 57 Resp: 48596
Ion Ratio Lower Upper
57 100
41 46.5 26.8 40.2#
56 42.7 25.6 38.4#





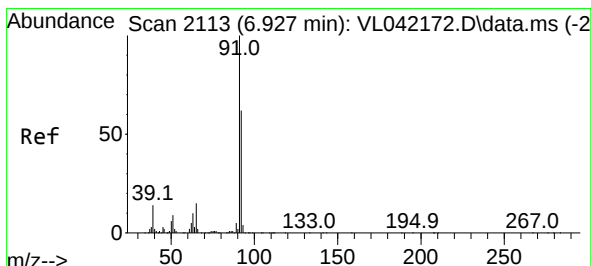
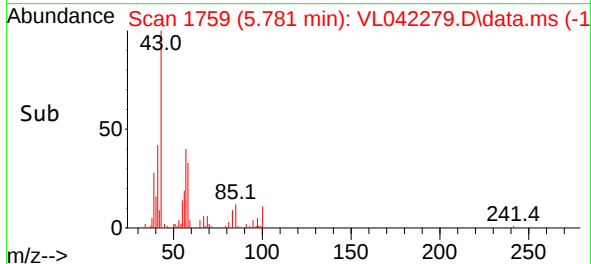
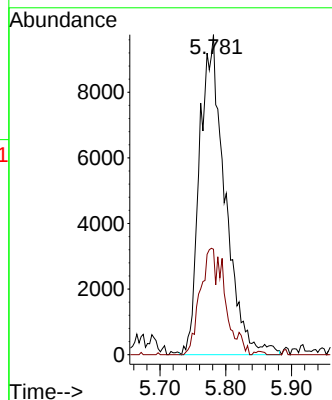
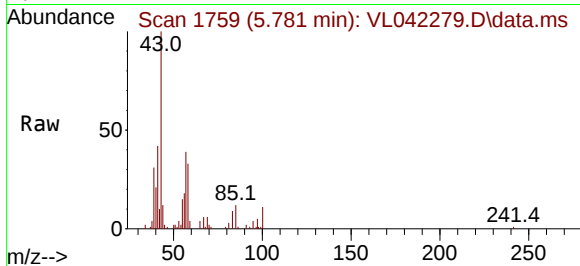
#50
4-Methyl-2-Pentanone
Concen: 0.579 ppbv m
RT: 5.781 min Scan# 11
Delta R.T. 0.036 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

Tgt Ion: 43 Resp: 26080
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6

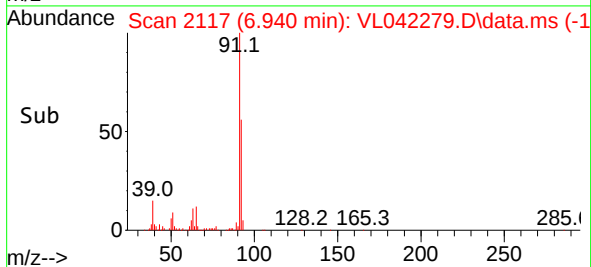
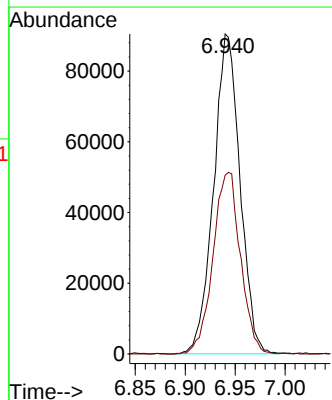
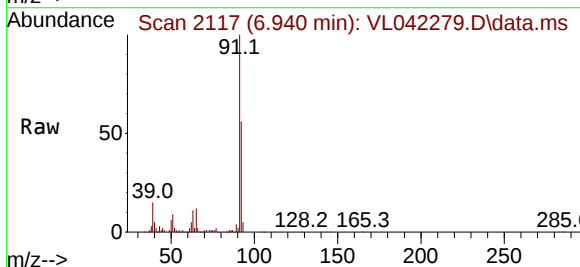
Manual Integrations
APPROVED

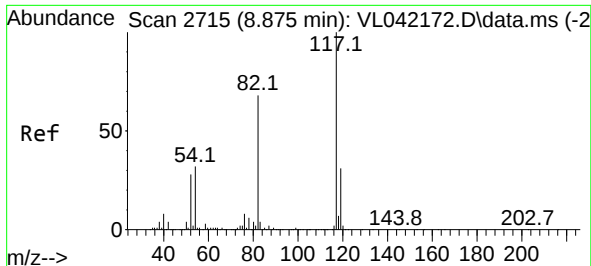
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#53
Toluene
Concen: 3.603 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

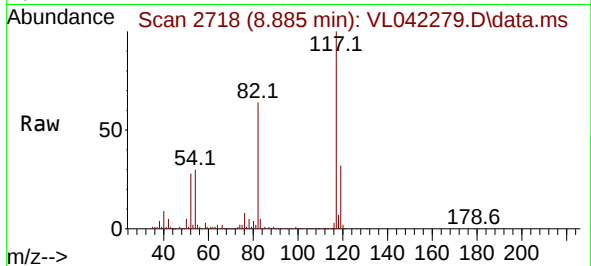
Tgt Ion: 91 Resp: 166042
Ion Ratio Lower Upper
91 100
92 59.2 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

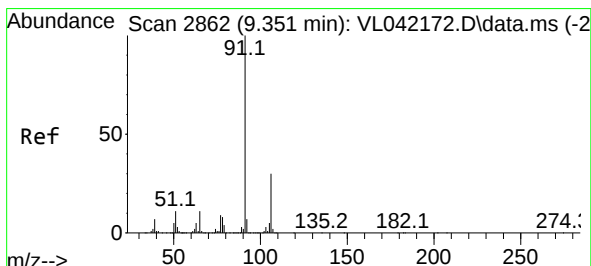
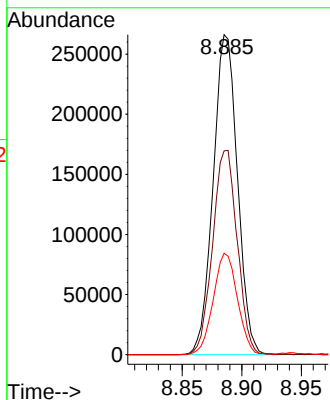
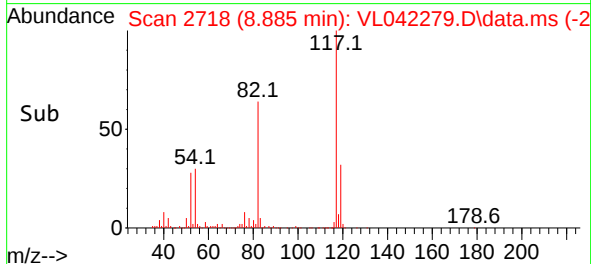
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025



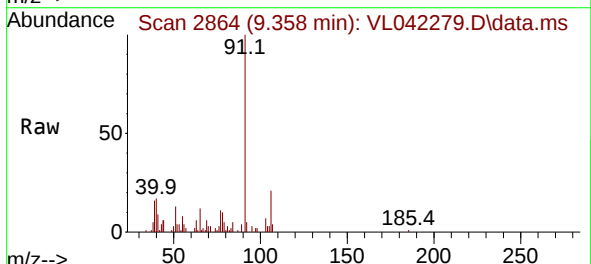
Tgt Ion: 117 Resp: 376954
Ion Ratio Lower Upper
117 100
82 64.7 55.8 83.6
119 31.7 25.5 38.3

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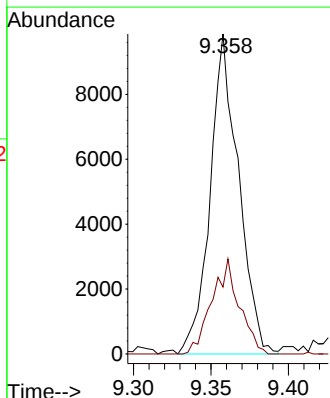
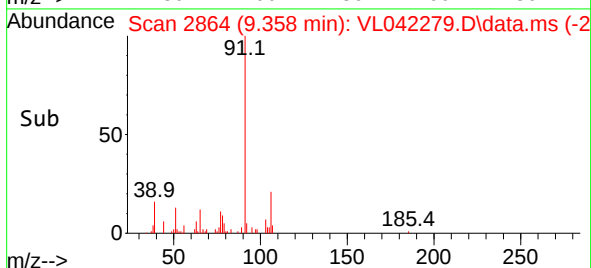
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025

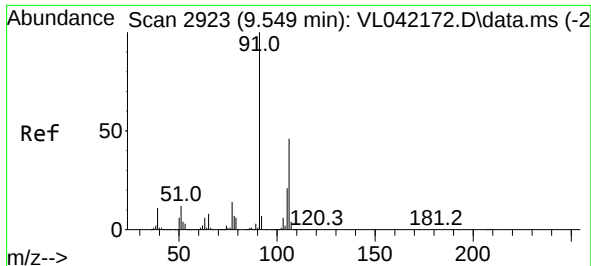


#58
Ethyl Benzene
Concen: 0.188 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46



Tgt Ion: 91 Resp: 12588
Ion Ratio Lower Upper
91 100
106 20.9 24.2 36.2#





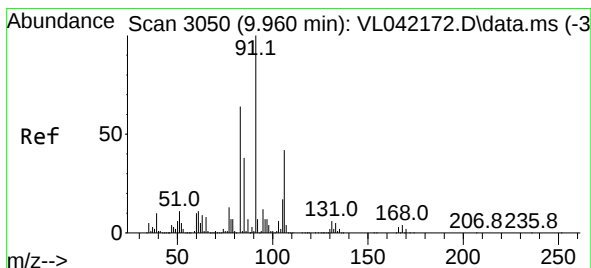
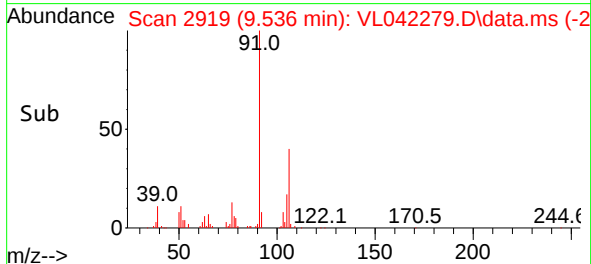
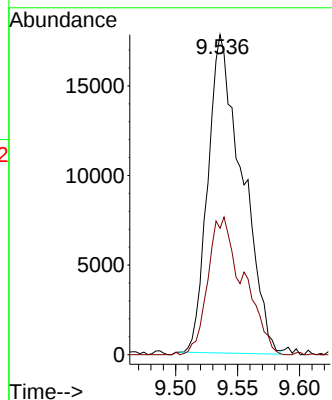
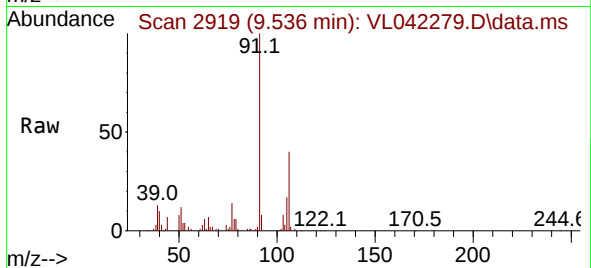
#59
m/p-Xylene
Concen: 0.641 ppbv
RT: 9.536 min Scan# 2919
Delta R.T. -0.013 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Instrument : MSVOA_L
ClientSampleId : SSSG-B2-7-04022025

Tgt Ion: 91 Resp: 34249
Ion Ratio Lower Upper
91 100
106 45.1 36.4 54.6

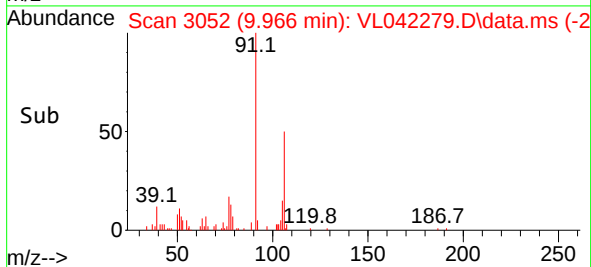
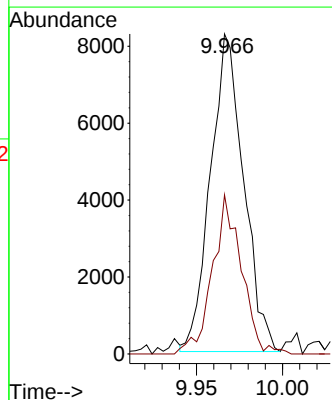
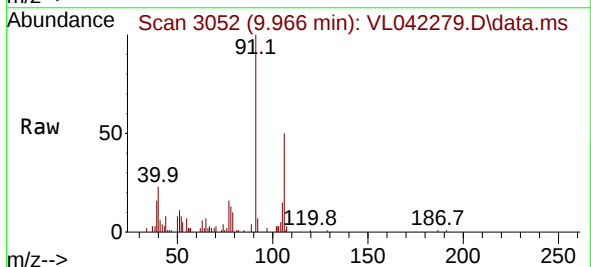
Manual Integrations
APPROVED

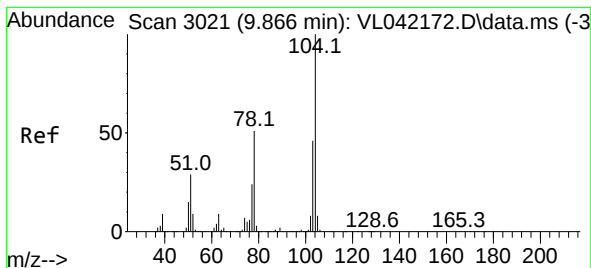
Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#60
o-Xylene
Concen: 0.207 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.007 min
Lab File: VL042279.D
Acq: 09 Apr 2025 00:46

Tgt Ion: 91 Resp: 11082
Ion Ratio Lower Upper
91 100
106 43.9 20.8 62.5





#61

Styrene

Concen: 0.194 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.007 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Instrument :

MSVOA_L

ClientSampleId :

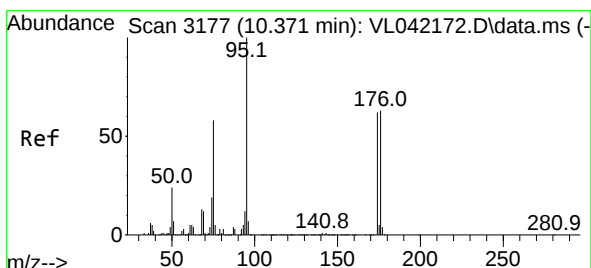
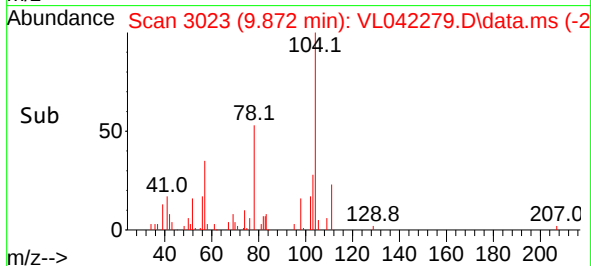
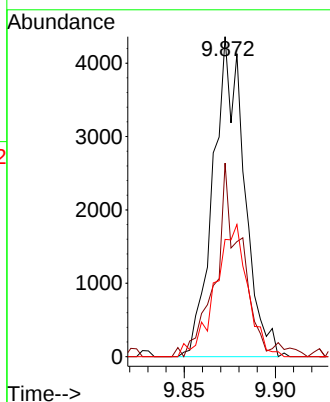
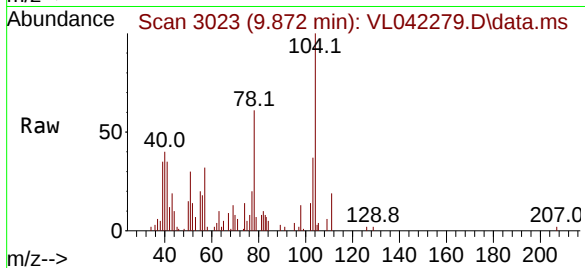
SSSG-B2-7-04022025

Tgt Ion:	104	Resp:	515
Ion Ratio	Lower	Upper	
104	100		
78	53.3	41.8	62.6
103	43.2	37.0	55.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 04/09/2025
Supervised By :Semsettin Yesilyurt 04/10/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.096 ppbv

RT: 10.381 min Scan# 3180

Delta R.T. 0.010 min

Lab File: VL042279.D

Acq: 09 Apr 2025 00:46

Tgt Ion:	95	Resp:	281576
Ion Ratio	Lower	Upper	
95	100		
174	62.8	50.6	76.0
175	4.8	3.8	5.6

