

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
 Data File : VL043200.D
 Acq On : 13 Nov 2025 15:23
 Operator : SY/MD
 Sample : Q3627-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 UNIT-8-SS-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025
 Supervised By :Mahesh Dadoda 11/18/2025

Quant Time: Nov 14 04:40:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	136843	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	359287	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	305253	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 240491 10.136 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	4950	0.254	ppbv	94
9) Propene	1.489	41	4022	0.431	ppbv	85
11) Trichlorofluoromethane	1.881	101	5775	0.303	ppbv	93
13) Ethanol	1.725	45	148663	43.052	ppbv	99
15) Acetone	1.839	43	495885	26.885	ppbv	99
17) tert-Butyl alcohol	2.046	59	27295	1.078	ppbv	97
19) Isopropyl Alcohol	1.887	45	147301	12.823	ppbv #	18
20) Methylene Chloride	2.065	84	7894	1.083	ppbv	90
26) Hexane	2.836	57	9409	0.446	ppbv #	45
27) Carbon Disulfide	2.156	76	8871	0.459	ppbv #	27
29) Chloroform	2.852	83	7245	0.237	ppbv	99
32) 1,1,1-Trichloroethane	3.376	97	1211m	0.038	ppbv	
34) 2-Butanone	2.564	43	65335	2.705	ppbv	99
35) Carbon Tetrachloride	3.771	117	30208	1.169	ppbv	91
36) Benzene	3.664	78	4942m	0.146	ppbv	
38) Trichloroethene	4.557	130	74909	5.300	ppbv	97
41) Tetrahydrofuran	3.069	42	2943m	0.218	ppbv	
50) 4-Methyl-2-Pentanone	5.778	43	6487m	0.195	ppbv	
51) 2-Hexanone	7.448	43	11714m	0.469	ppbv	
52) Tetrachloroethene	8.228	164	27051	2.217	ppbv	96
53) Toluene	6.943	91	7803	0.194	ppbv	99
59) m/p-Xylene	9.539	91	9879m	0.236	ppbv	
60) o-Xylene	9.969	91	4883m	0.118	ppbv	
74) 1,2,4-Trimethylbenzene	11.545	105	6862m	0.147	ppbv	

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

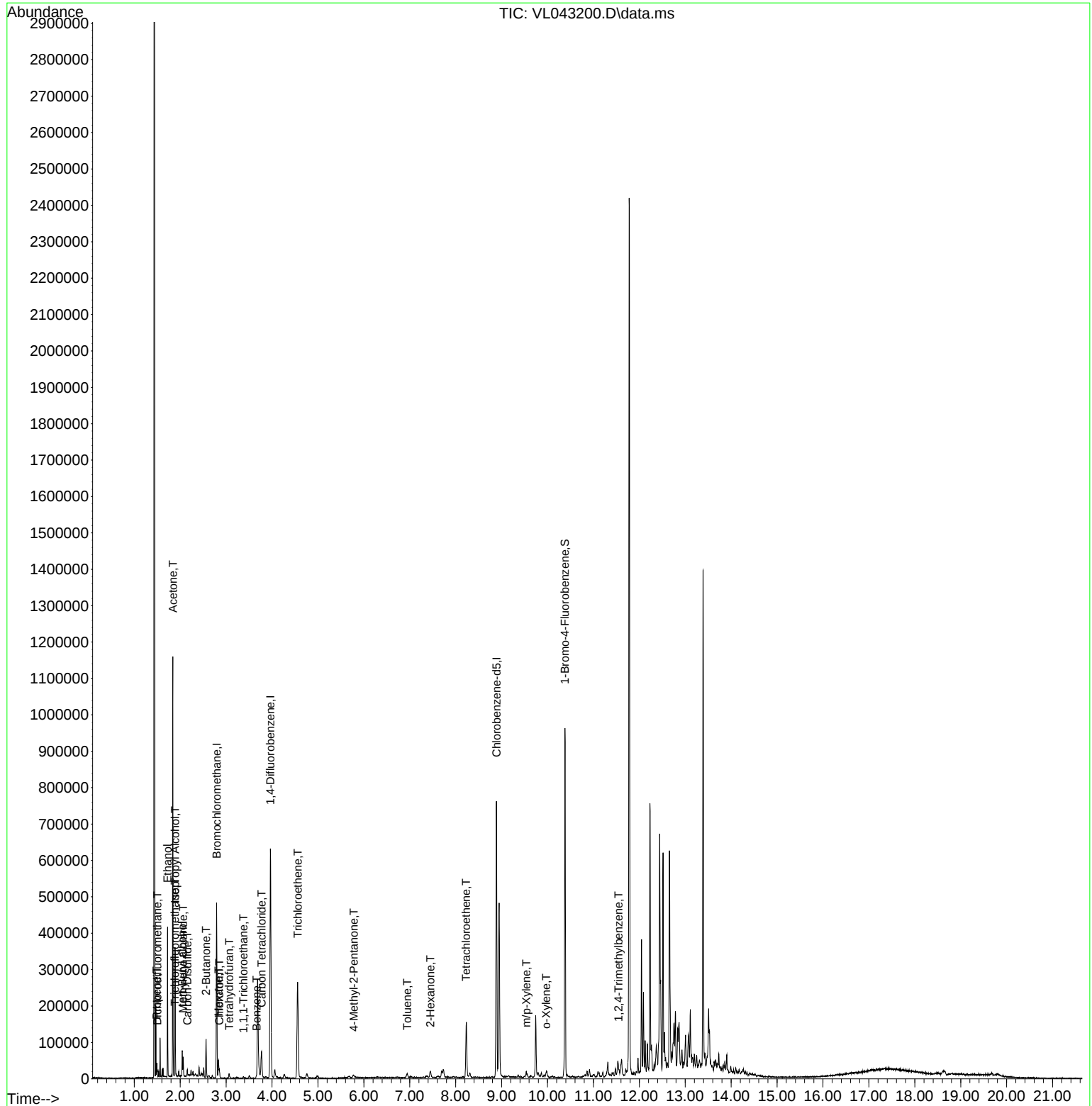
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111325\
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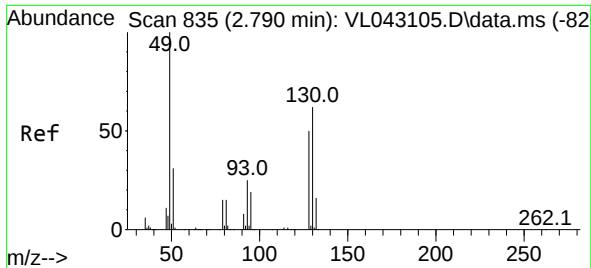
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Quant Time: Nov 14 04:40:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
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Manual Integrations
APPROVED

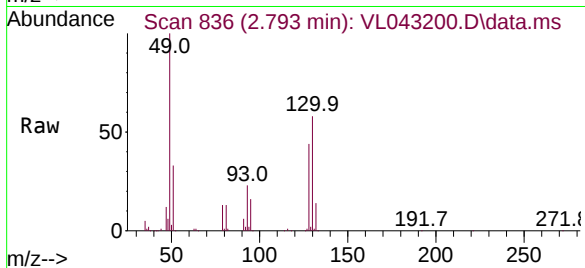
Reviewed By : Semsettin Yesilyurt 11/17/2025
Supervised By : Mahesh Dadoda 11/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

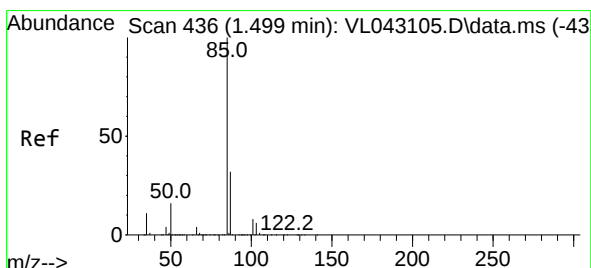
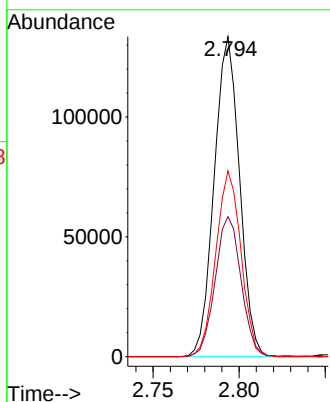
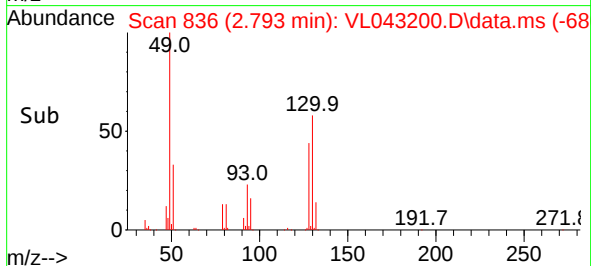
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1



Tgt Ion: 49 Resp: 136843
Ion Ratio Lower Upper
49 100
128 44.5 24.4 73.4
130 57.7 31.0 93.0

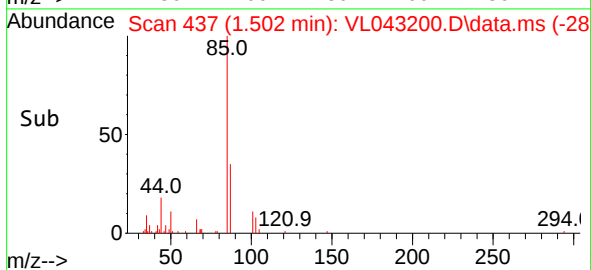
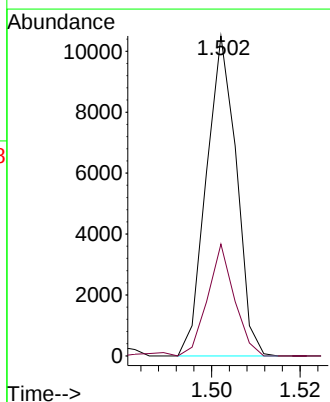
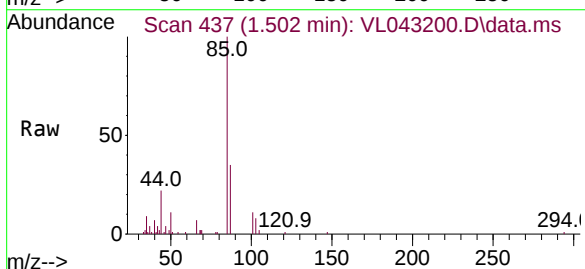
Manual Integrations
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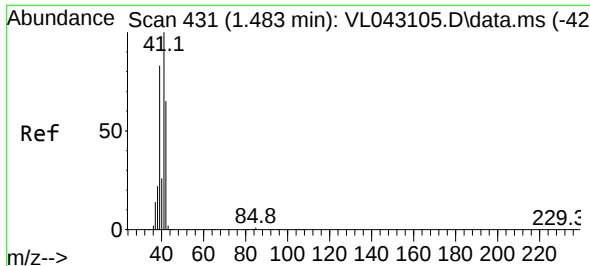
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#2
Dichlorodifluoromethane
Concen: 0.254 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 85 Resp: 4950
Ion Ratio Lower Upper
85 100
87 34.9 25.3 37.9





#9

Propene

Concen: 0.431 ppbv

RT: 1.489 min Scan# 431

Delta R.T. 0.006 min

Lab File: VL043200.D

Acq: 13 Nov 2025 15:23

Instrument :

MSVOA_L

ClientSampleId :

UNIT-8-SS-1

Tgt Ion: 41 Resp: 402

Ion Ratio Lower Upper

41 100

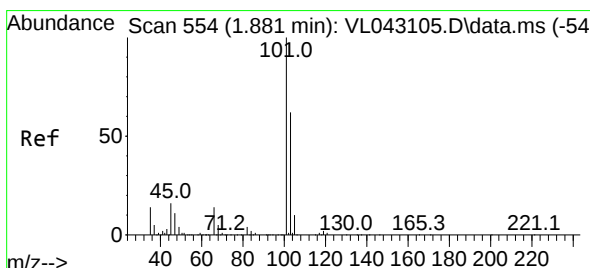
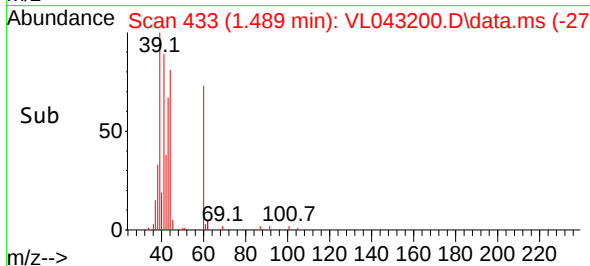
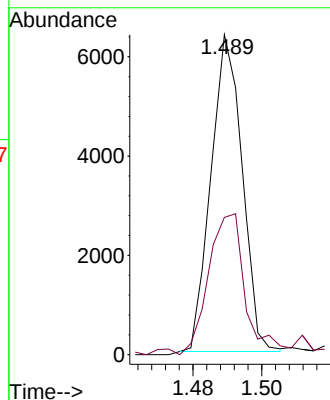
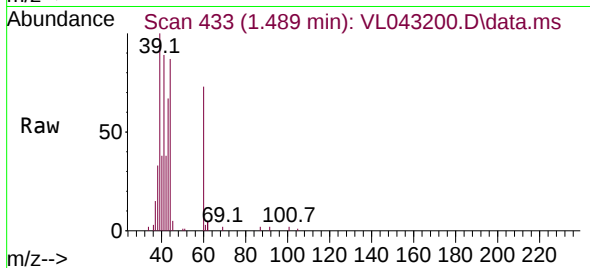
42 56.5 55.1 82.7

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.303 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL043200.D

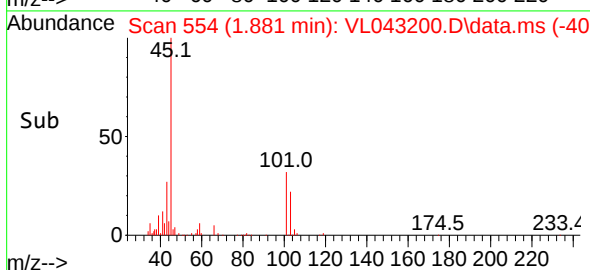
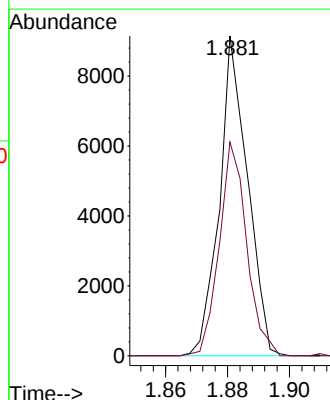
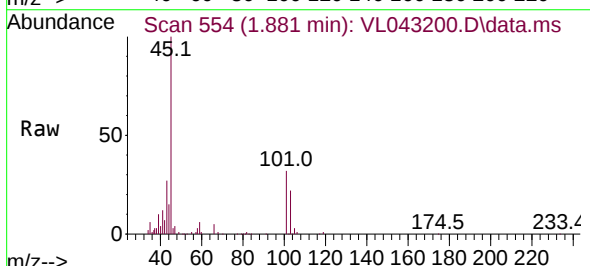
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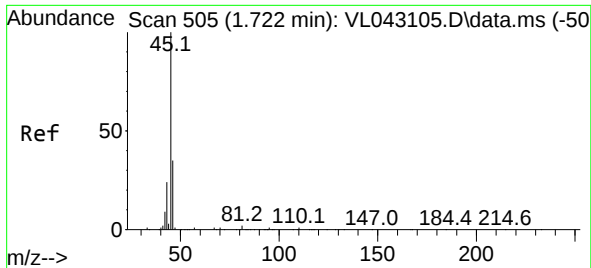
Tgt Ion:101 Resp: 5775

Ion Ratio Lower Upper

101 100

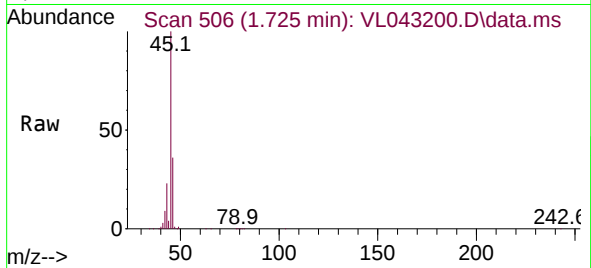
103 66.8 49.3 73.9





#13
Ethanol
Concen: 43.052 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

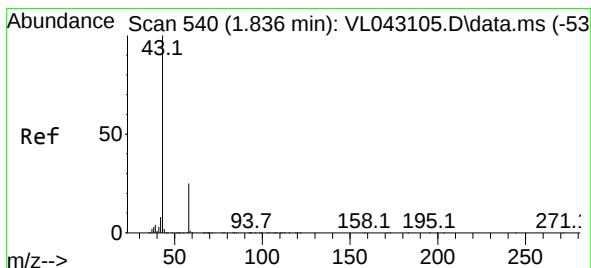
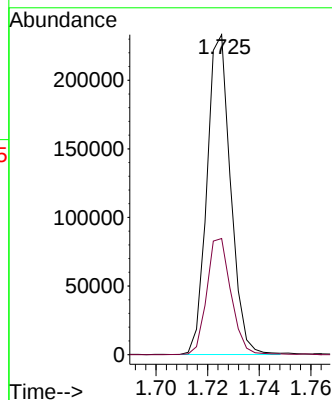
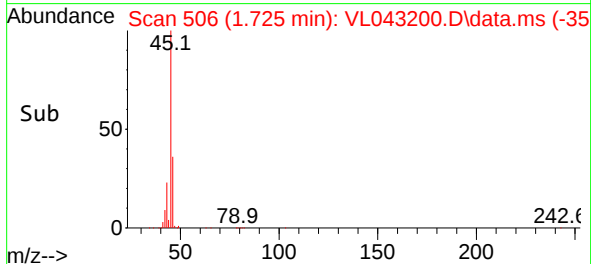
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1



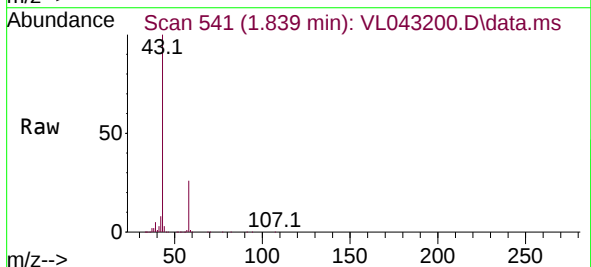
Tgt Ion: 45 Resp: 148663
Ion Ratio Lower Upper
45 100
46 37.5 14.7 58.9

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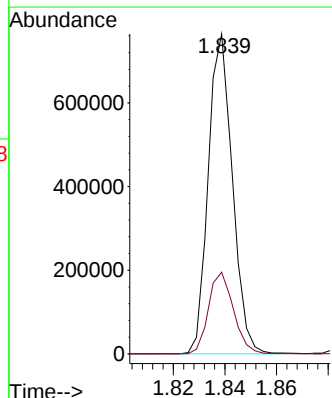
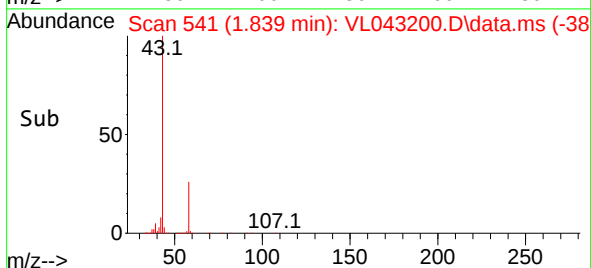
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025

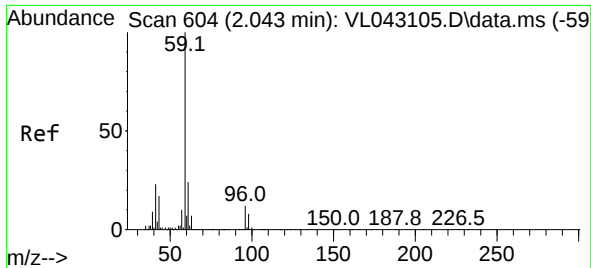


#15
Acetone
Concen: 26.885 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23



Tgt Ion: 43 Resp: 495885
Ion Ratio Lower Upper
43 100
58 26.4 20.8 31.2





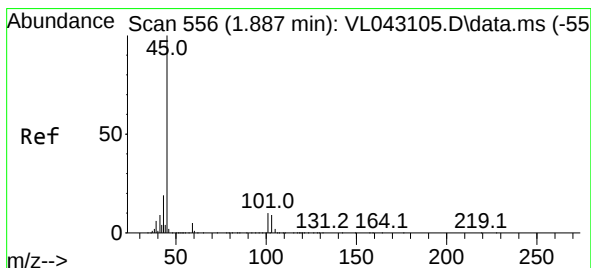
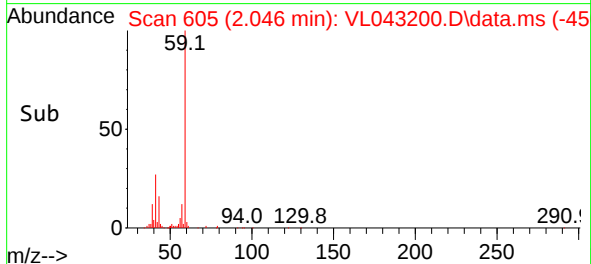
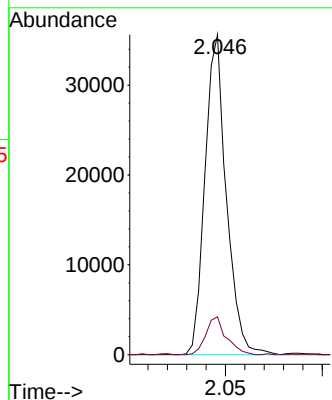
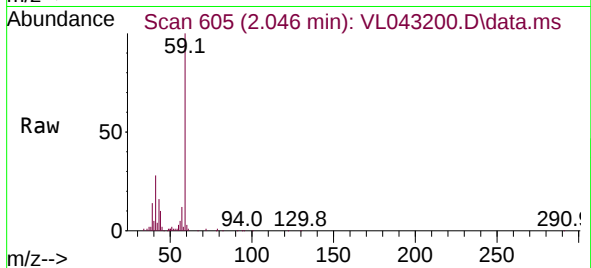
#17
tert-Butyl alcohol
Concen: 1.078 ppbv
RT: 2.046 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 59 Resp: 27295
Ion Ratio Lower Upper
59 100
57 11.4 8.2 12.4

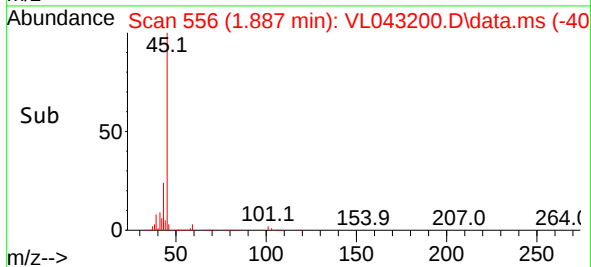
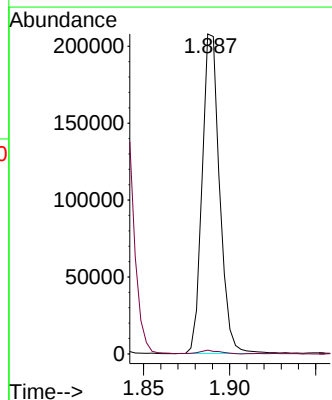
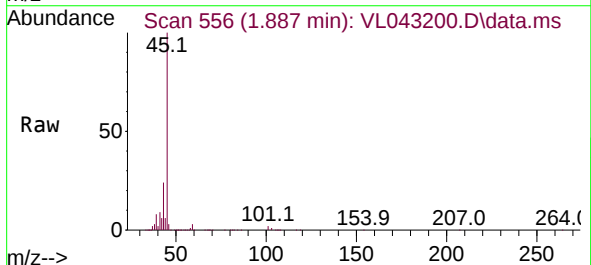
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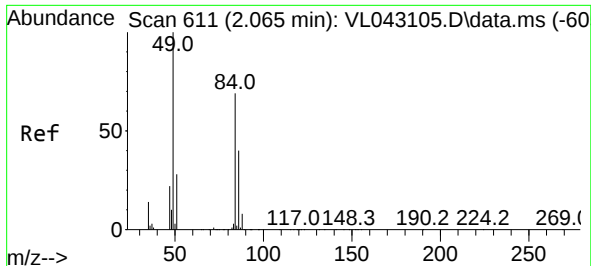
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#19
Isopropyl Alcohol
Concen: 12.823 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

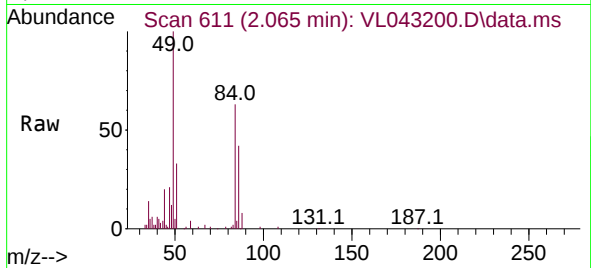
Tgt Ion: 45 Resp: 147301
Ion Ratio Lower Upper
45 100
58 89.0 31.3 46.9





#20
Methylene Chloride
Concen: 1.083 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

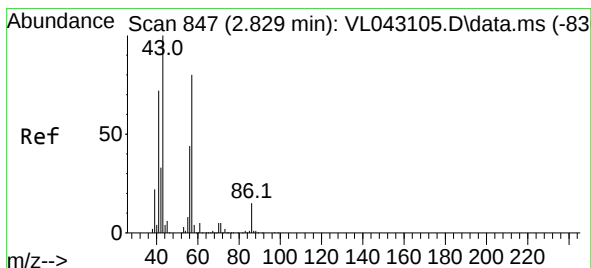
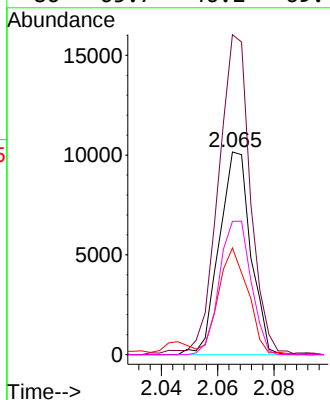
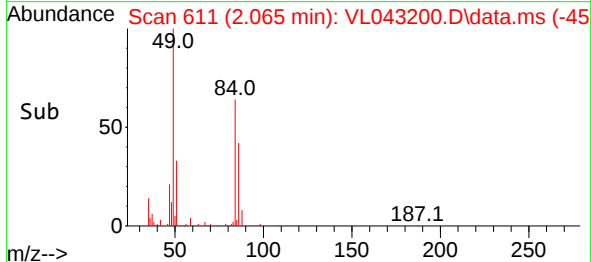
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1



Tgt Ion: 84	Resp: 7894
Ion Ratio	Lower Upper
84 100	
49 156.1	116.6 175.0
51 51.4	34.8 52.2
86 65.7	46.2 69.4

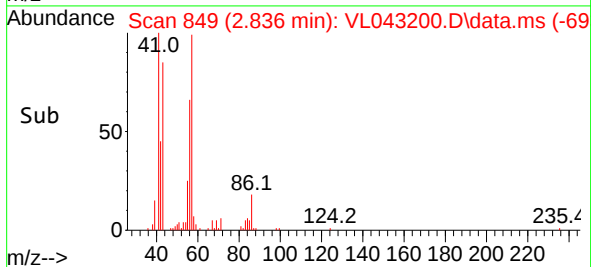
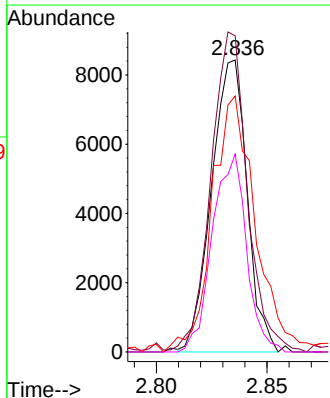
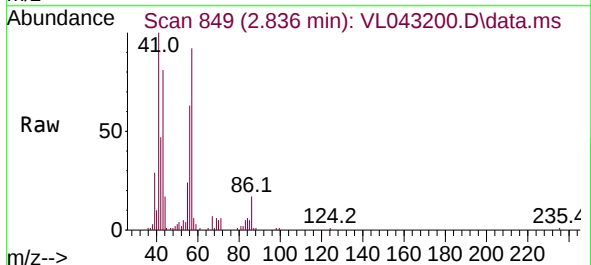
Manual Integrations
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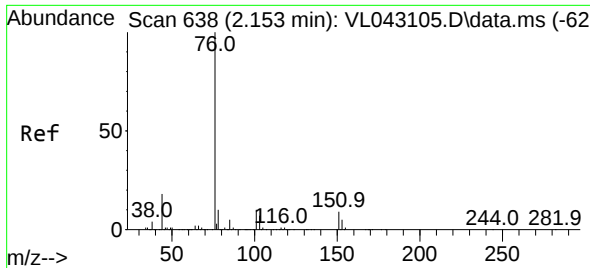
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#26
Hexane
Concen: 0.446 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

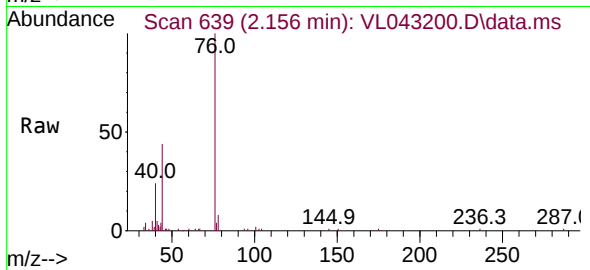
Tgt Ion: 57	Resp: 9409
Ion Ratio	Lower Upper
57 100	
41 117.2	71.4 107.0#
43 102.4	178.5 267.7#
56 65.1	42.2 63.4#





#27
Carbon Disulfide
Concen: 0.459 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

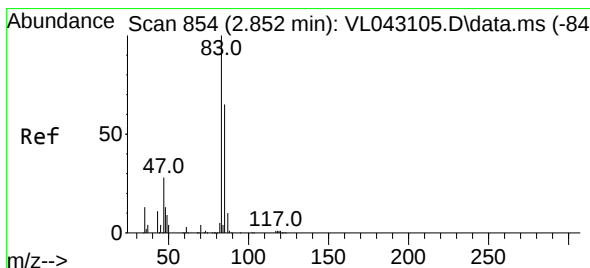
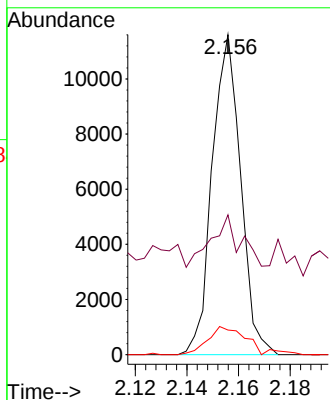
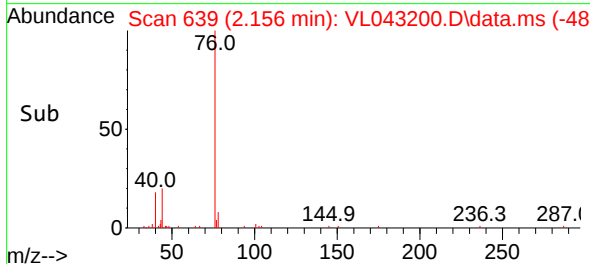
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1



Tgt Ion: 76 Resp: 887
Ion Ratio Lower Upper
76 100
44 73.3 16.7 25.1
78 12.3 9.3 13.9

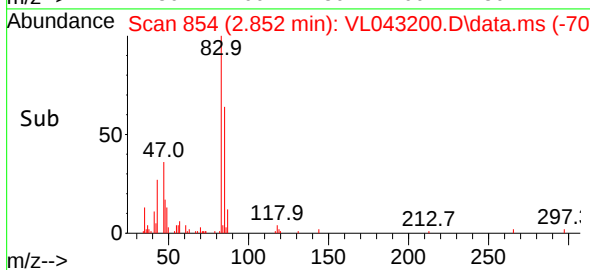
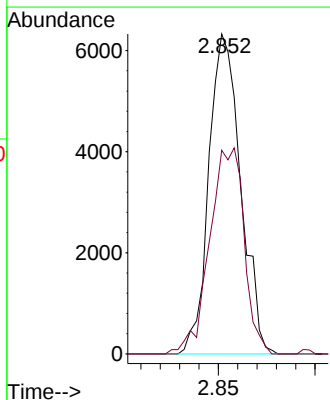
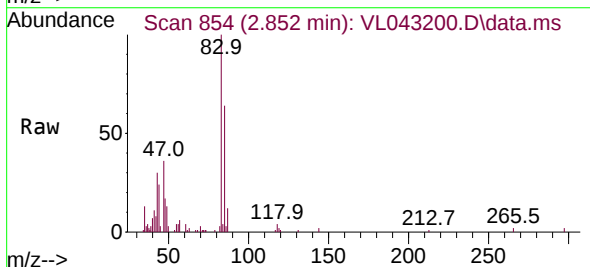
Manual Integrations
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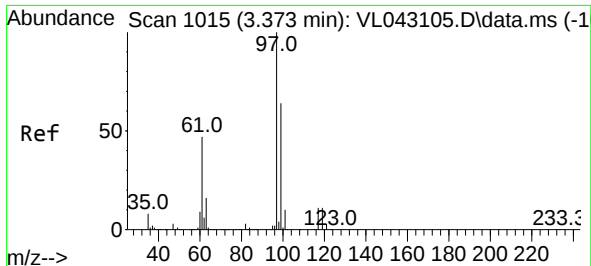
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#29
Chloroform
Concen: 0.237 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

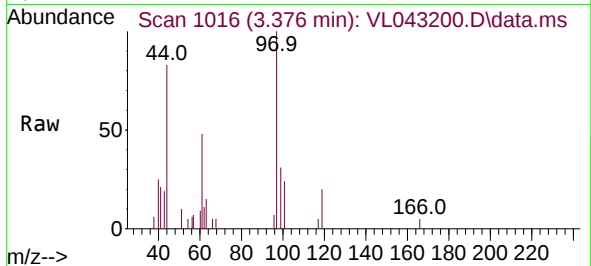
Tgt Ion: 83 Resp: 7245
Ion Ratio Lower Upper
83 100
85 63.6 51.8 77.6





#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv m
RT: 3.376 min Scan# 1015
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

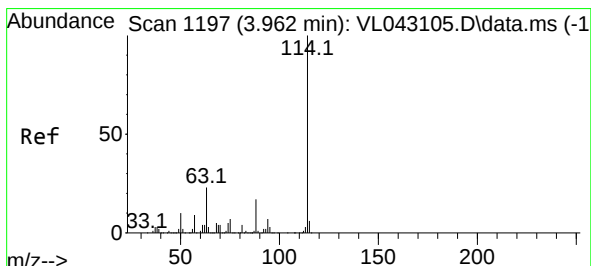
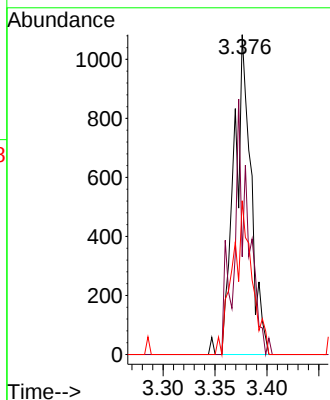
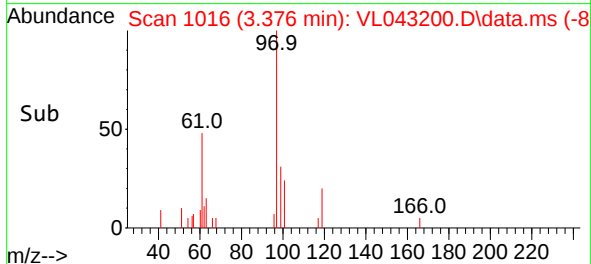
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1



Tgt Ion: 97 Resp: 121
Ion Ratio Lower Upper
97 100
99 0.0 51.3 76.9
61 54.5 38.4 57.6

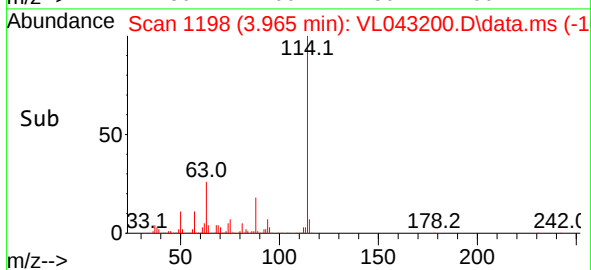
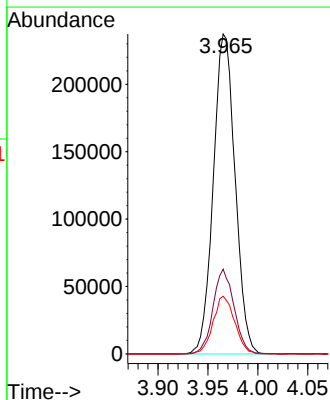
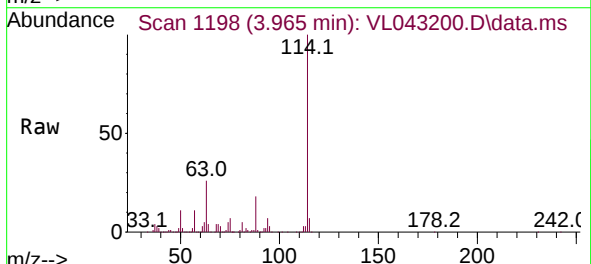
Manual Integrations
APPROVED

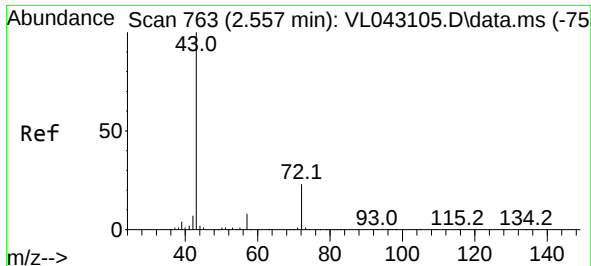
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:114 Resp: 359287
Ion Ratio Lower Upper
114 100
63 25.6 19.3 28.9
88 17.8 13.9 20.9





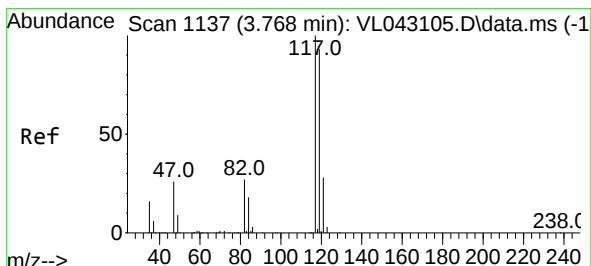
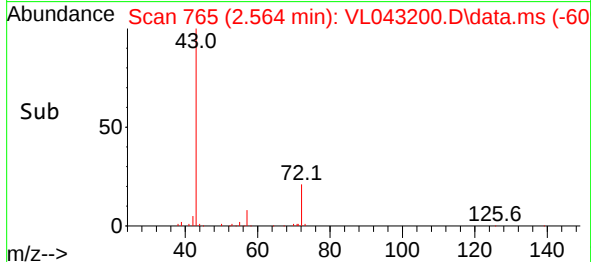
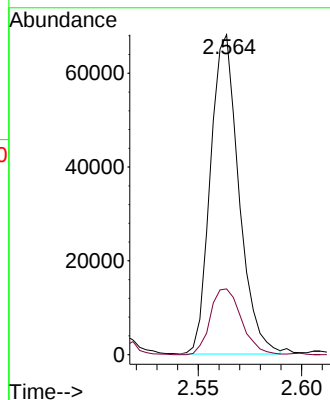
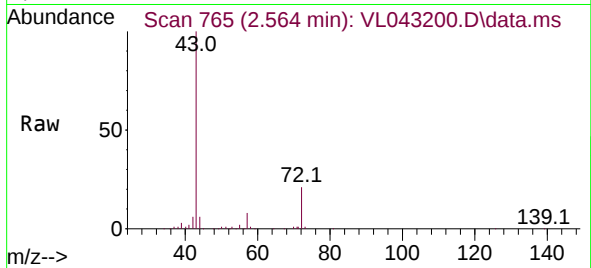
#34
2-Butanone
Concen: 2.705 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 43 Resp: 65335
Ion Ratio Lower Upper
43 100
72 22.7 18.4 27.6

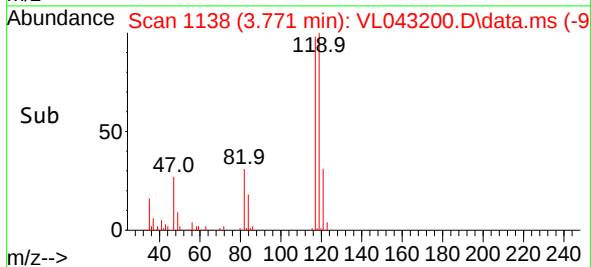
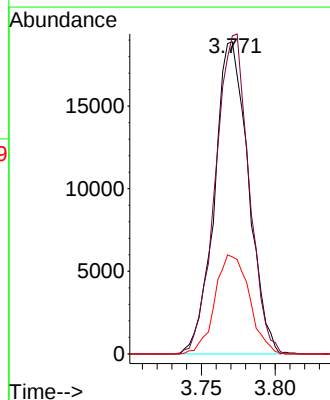
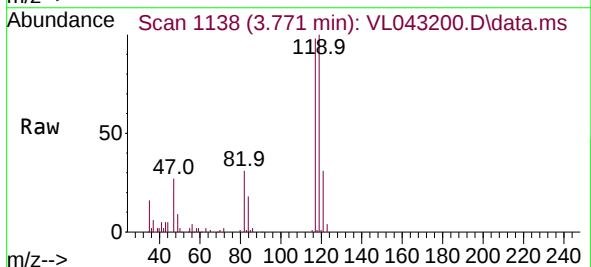
Manual Integrations
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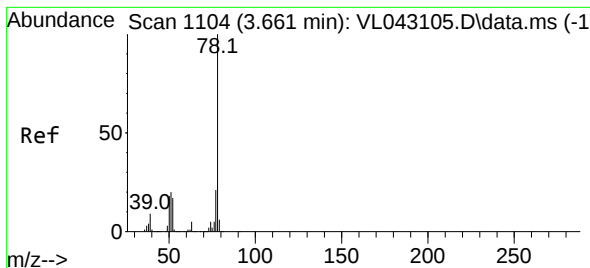
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#35
Carbon Tetrachloride
Concen: 1.169 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:117 Resp: 30208
Ion Ratio Lower Upper
117 100
119 101.6 74.1 111.1
121 31.1 22.2 33.2





#36

Benzene

Concen: 0.146 ppbv m

RT: 3.664 min Scan# 1104

Delta R.T. 0.003 min

Lab File: VL043200.D

Acq: 13 Nov 2025 15:23

Instrument :

MSVOA_L

ClientSampleId :

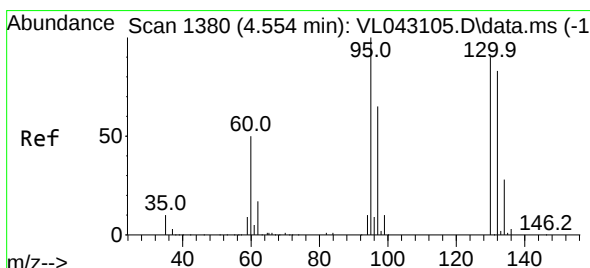
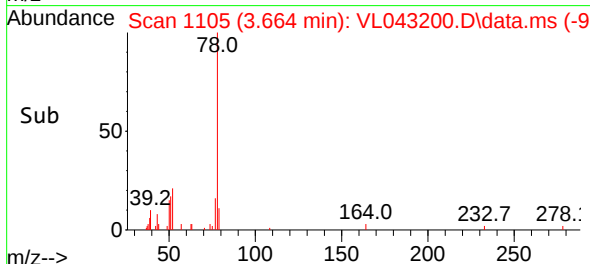
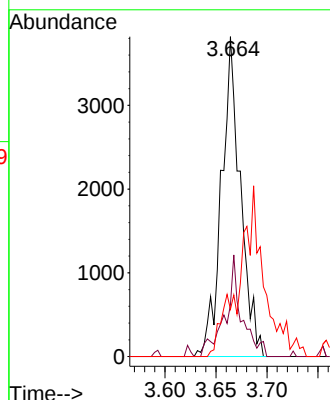
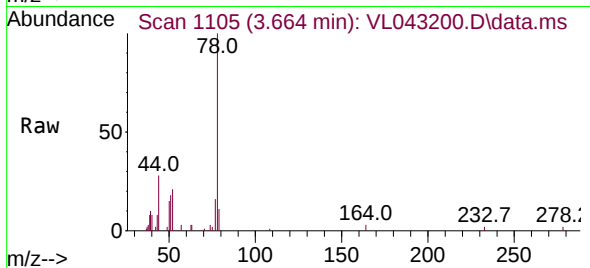
UNIT-8-SS-1

Tgt Ion: 78	Resp: 4942
Ion Ratio	Lower Upper
78 100	
77 16.2	17.0 25.6
50 14.8	14.6 22.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#38

Trichloroethene

Concen: 5.300 ppbv

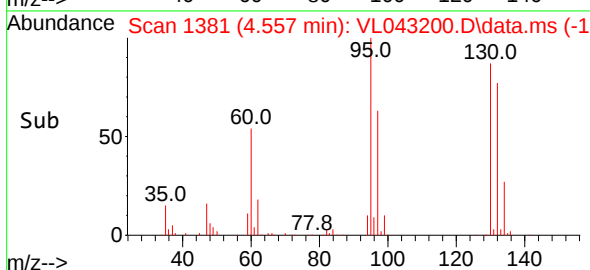
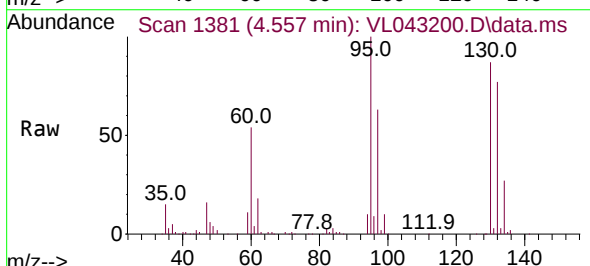
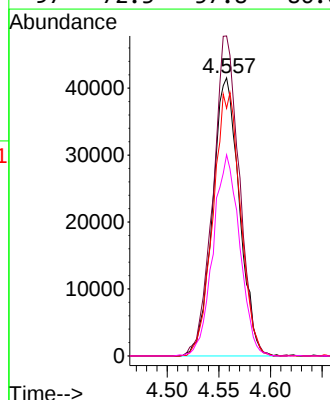
RT: 4.557 min Scan# 1381

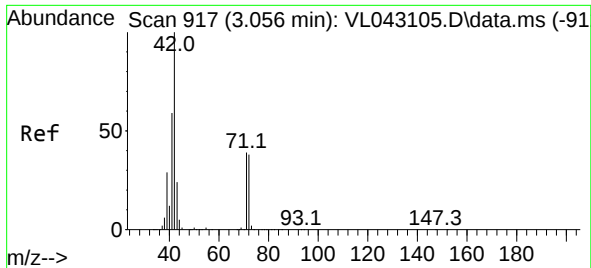
Delta R.T. 0.003 min

Lab File: VL043200.D

Acq: 13 Nov 2025 15:23

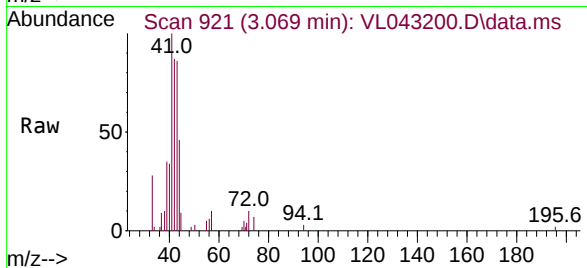
Tgt Ion:130	Resp: 74909
Ion Ratio	Lower Upper
130 100	
95 115.1	88.6 133.0
132 89.1	73.4 110.0
97 72.3	57.8 86.6





#41
Tetrahydrofuran
Concen: 0.218 ppbv m
RT: 3.069 min Scan# 917
Delta R.T. 0.013 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

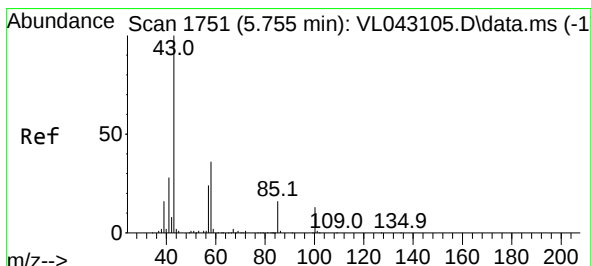
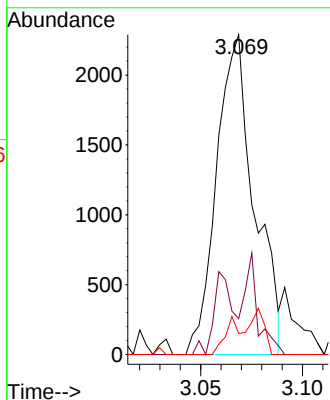
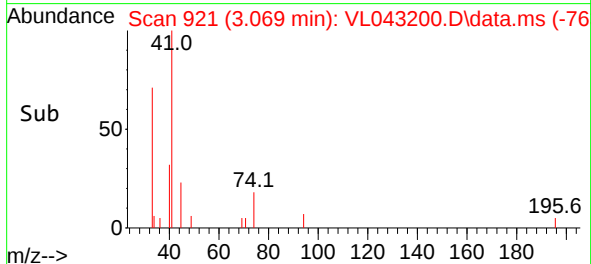
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1



Tgt Ion: 42 Resp: 2943
Ion Ratio Lower Upper
42 100
72 0.0 31.3 46.9#
71 0.0 30.4 45.6#

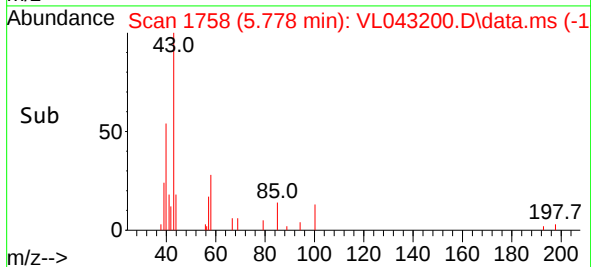
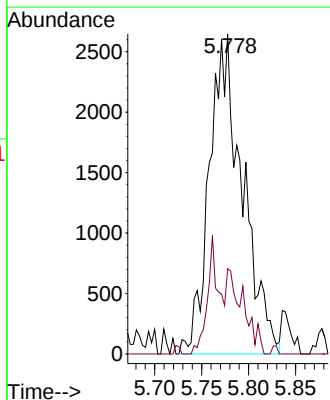
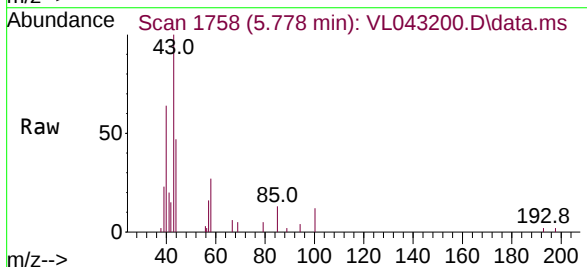
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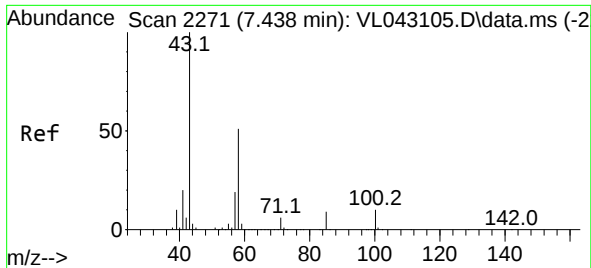
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#50
4-Methyl-2-Pentanone
Concen: 0.195 ppbv m
RT: 5.778 min Scan# 1758
Delta R.T. 0.023 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion: 43 Resp: 6487
Ion Ratio Lower Upper
43 100
58 27.4 29.1 43.7#





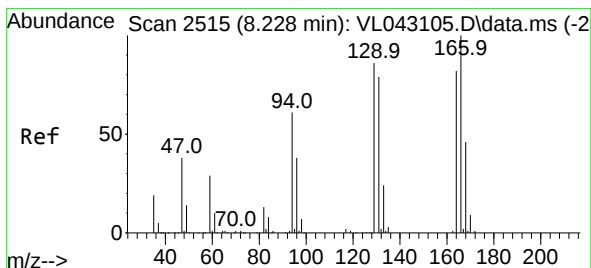
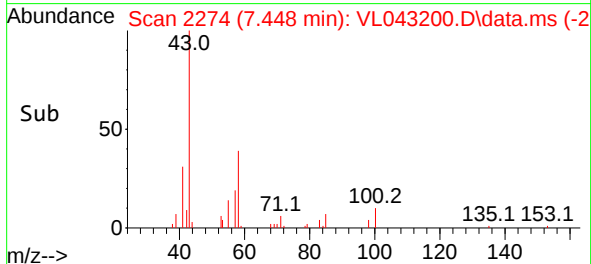
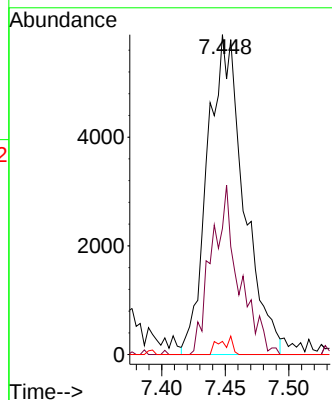
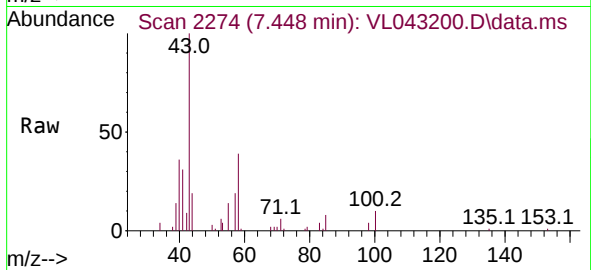
#51
2-Hexanone
Concen: 0.469 ppbv m
RT: 7.448 min Scan# 2271
Delta R.T. 0.010 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 43 Resp: 11714
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6
98 0.0 0.1 0.1

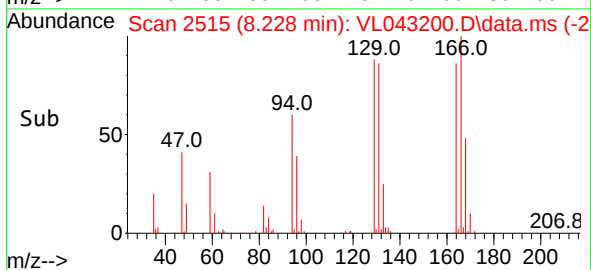
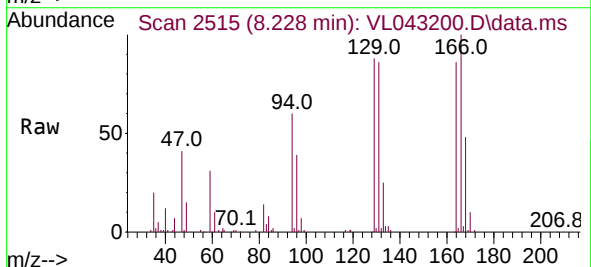
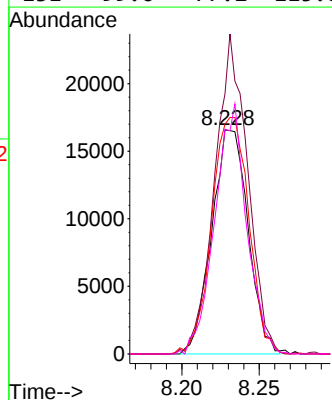
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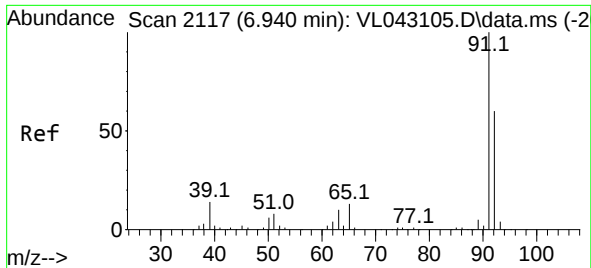
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#52
Tetrachloroethene
Concen: 2.217 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:164 Resp: 27051
Ion Ratio Lower Upper
164 100
166 115.4 97.6 146.4
129 101.7 84.5 126.7
131 99.6 77.2 115.8





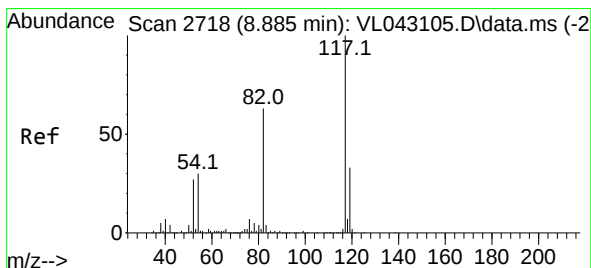
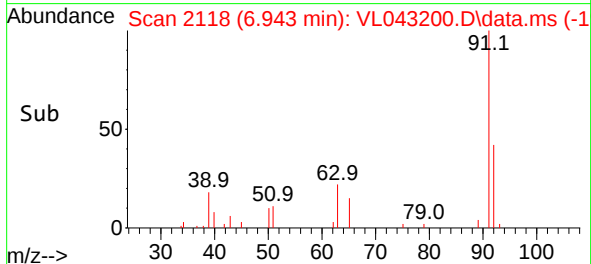
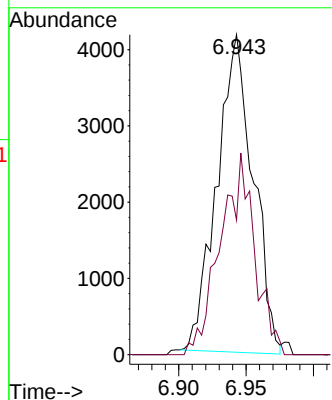
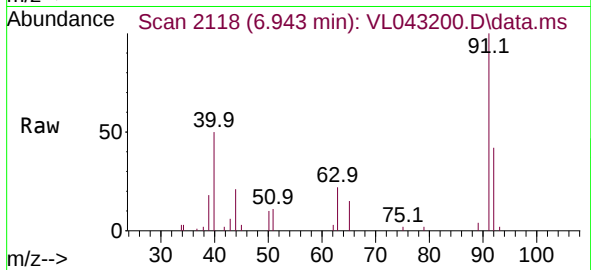
#53
Toluene
Concen: 0.194 ppbv
RT: 6.943 min Scan# 2117
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1

Tgt Ion: 91 Resp: 7803
Ion Ratio Lower Upper
91 100
92 59.9 48.8 73.2

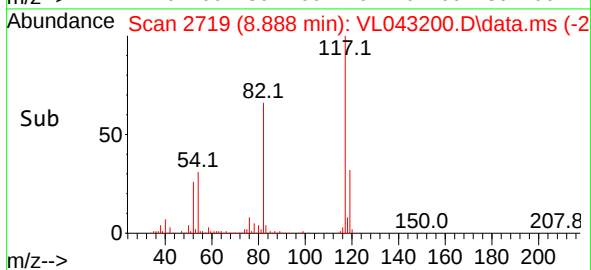
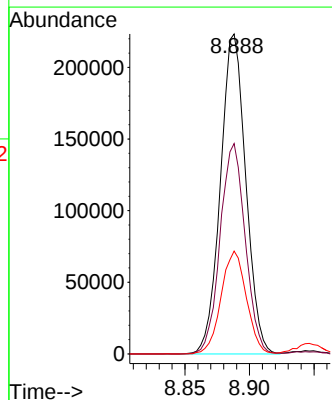
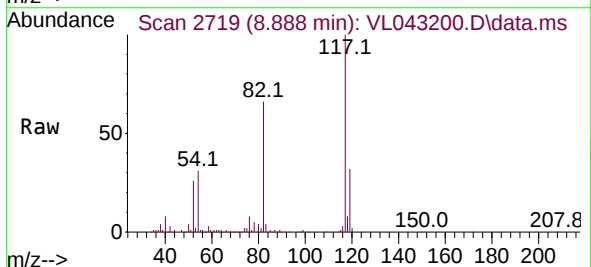
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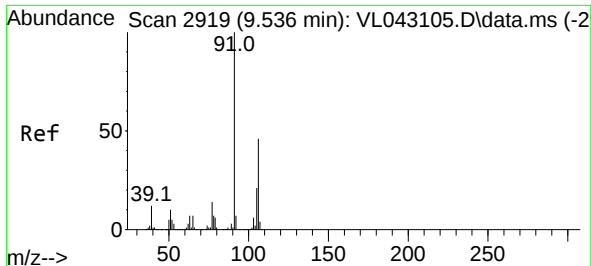
Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.003 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:117 Resp: 305253
Ion Ratio Lower Upper
117 100
82 65.1 53.8 80.8
119 32.0 25.4 38.0





#59

m/p-Xylene

Concen: 0.236 ppbv m

RT: 9.539 min Scan# 2919

Delta R.T. 0.003 min

Lab File: VL043200.D

Acq: 13 Nov 2025 15:23

Instrument :

MSVOA_L

ClientSampleId :

UNIT-8-SS-1

Tgt Ion: 91 Resp: 9879

Ion Ratio Lower Upper

91 100

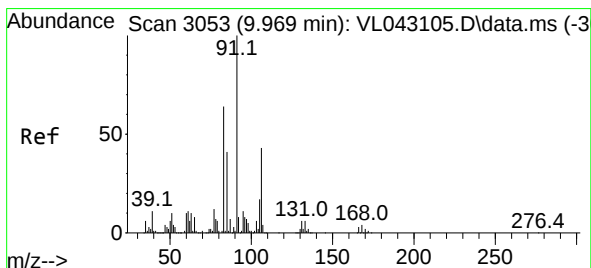
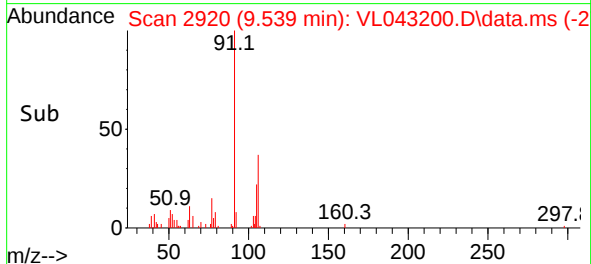
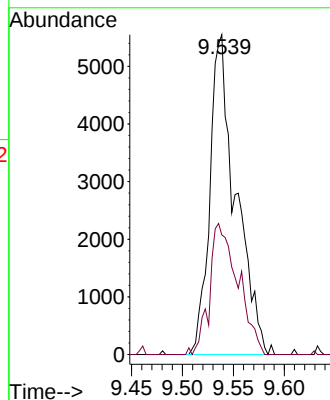
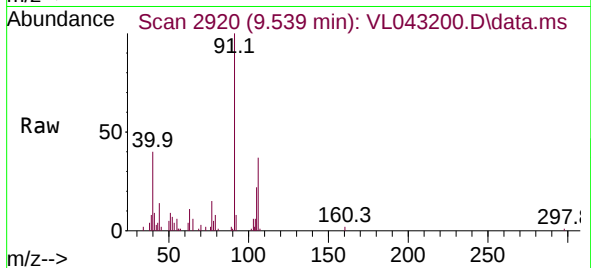
106 44.8 38.0 57.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/17/2025

Supervised By :Mahesh Dadoda 11/18/2025



#60

o-Xylene

Concen: 0.118 ppbv m

RT: 9.969 min Scan# 3053

Delta R.T. -0.000 min

Lab File: VL043200.D

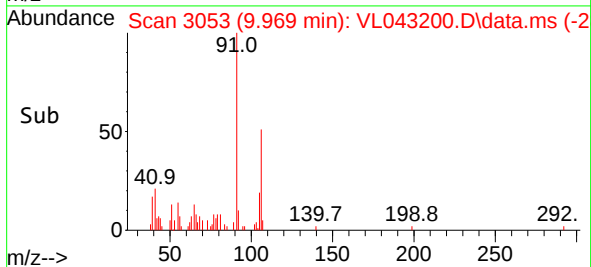
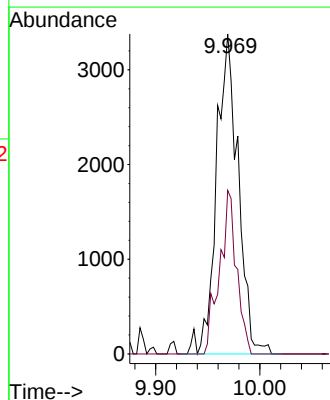
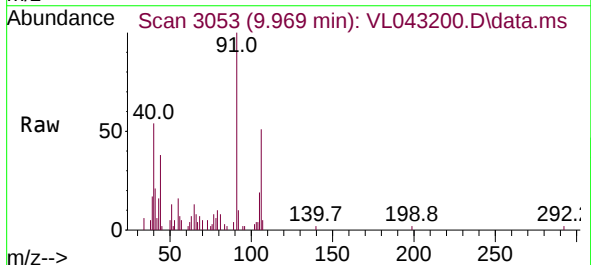
Acq: 13 Nov 2025 15:23

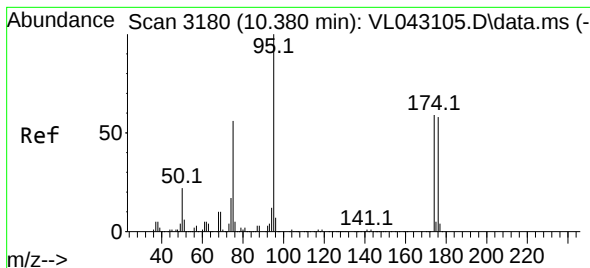
Tgt Ion: 91 Resp: 4883

Ion Ratio Lower Upper

91 100

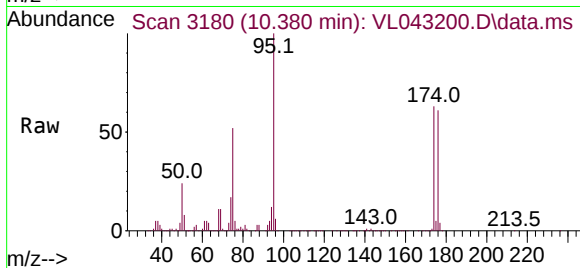
106 40.2 21.9 65.8





#68
1-Bromo-4-Fluorobenzene
Concen: 10.136 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

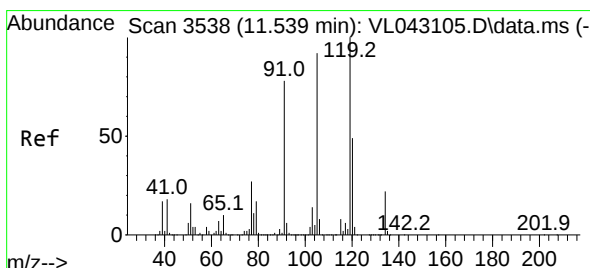
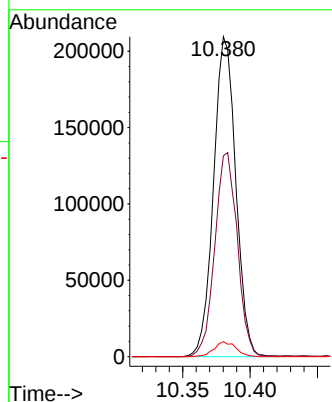
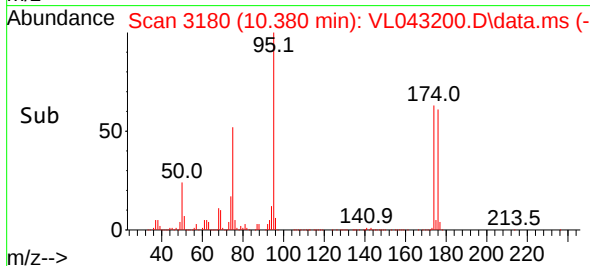
Instrument :
MSVOA_L
ClientSampleId :
UNIT-8-SS-1



Tgt Ion: 95 Resp: 240491
Ion Ratio Lower Upper
95 100
174 64.5 48.3 72.5
175 4.5 3.8 5.8

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Reviewed By :Semsettin Yesilyurt 11/17/2025
Supervised By :Mahesh Dadoda 11/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.147 ppbv m
RT: 11.545 min Scan# 3540
Delta R.T. 0.006 min
Lab File: VL043200.D
Acq: 13 Nov 2025 15:23

Tgt Ion:105 Resp: 6862
Ion Ratio Lower Upper
105 100
120 31.4 42.8 64.2#
91 21.7 68.3 102.5#
77 16.3 23.4 35.0#

