

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042785.D
 Acq On : 29 Jul 2025 16:10
 Operator : SY/MD
 Sample : Q2712-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

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

Quant Time: Jul 30 01:14:31 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	149534	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	413656	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	365762	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	287317	9.919	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9710	0.491	ppbv	96
3) Chlorodifluoromethane	1.476	51	11117m	0.432	ppbv	
4) Chloromethane	1.534	50	4905	0.613	ppbv #	82
9) Propene	1.486	41	14290m	1.527	ppbv	
10) Heptane	4.991	43	5720m	0.227	ppbv	
11) Trichlorofluoromethane	1.881	101	4847	0.238	ppbv	98
13) Ethanol	1.722	45	299258	437.926	ppbv	89
15) Acetone	1.839	43	162360	7.863	ppbv	99
19) Isopropyl Alcohol	1.890	45	51757	4.717	ppbv #	36
20) Methylene Chloride	2.065	84	4554	0.700	ppbv #	90
25) Ethyl Acetate	2.845	43	48188	1.054	ppbv #	87
29) Chloroform	2.852	83	15792	0.510	ppbv	98
34) 2-Butanone	2.564	43	16650	0.568	ppbv	97
35) Carbon Tetrachloride	3.771	117	2484m	0.081	ppbv	
36) Benzene	3.664	78	16885	0.431	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	13410m	0.210	ppbv	
52) Tetrachloroethene	8.238	164	761m	0.047	ppbv	
53) Toluene	6.946	91	31140	0.740	ppbv	99
58) Ethyl Benzene	9.367	91	6131m	0.106	ppbv	
59) m/p-Xylene	9.539	91	14022m	0.304	ppbv	
60) o-Xylene	9.972	91	5849	0.127	ppbv	92
74) 1,2,4-Trimethylbenzene	11.542	105	14560	0.294	ppbv #	60
79) Naphthalene	13.520	128	3153	0.491	ppbv	96

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

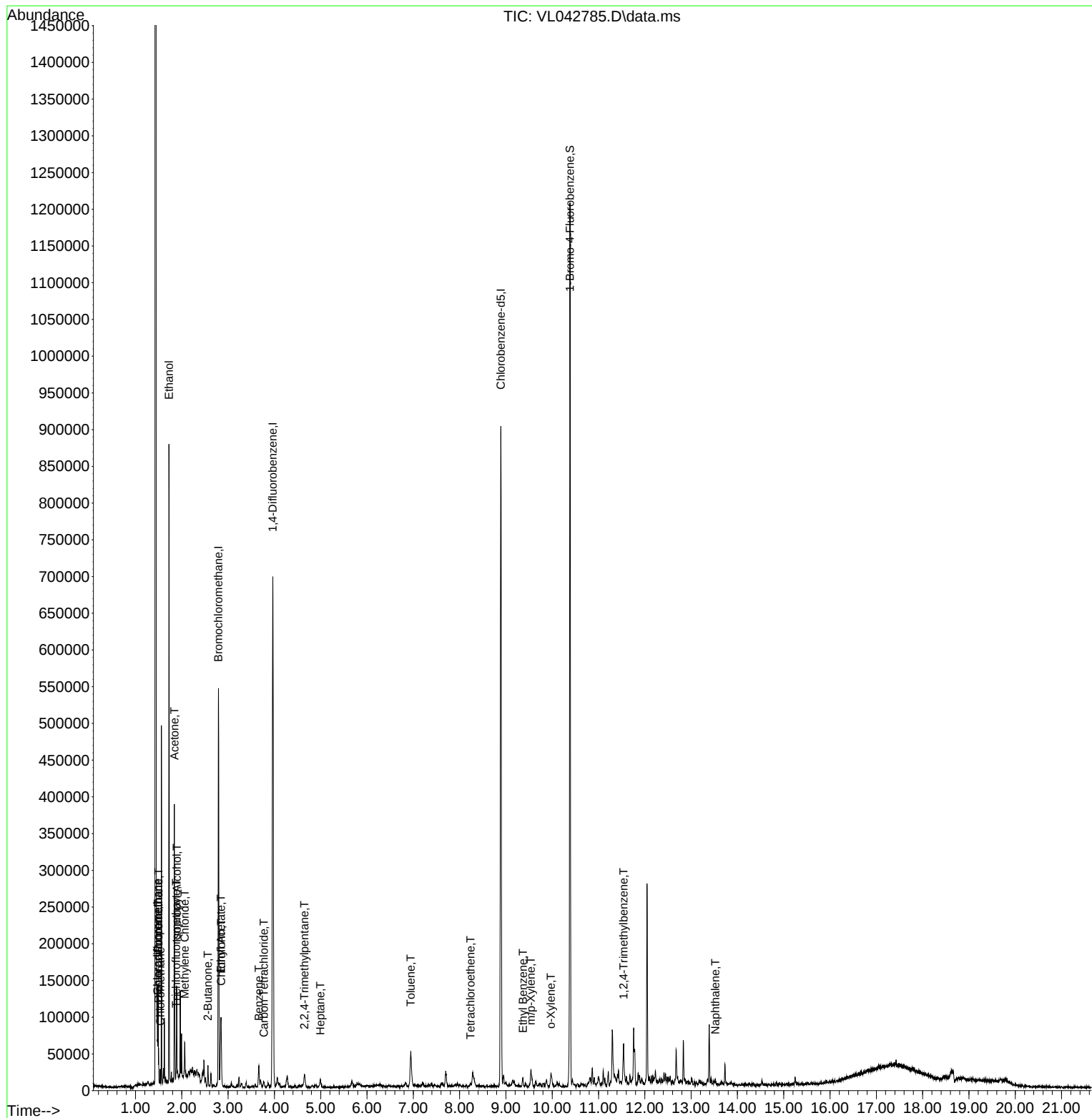
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Data File : VL042785.D
Acq On : 29 Jul 2025 16:10
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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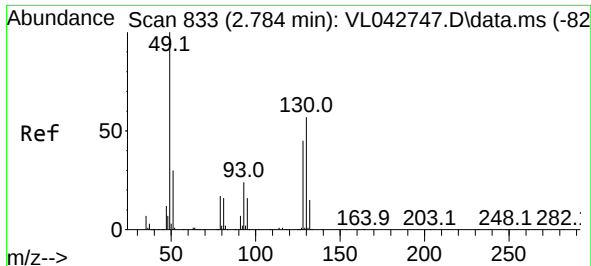
Instrument :
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ClientSampleId :
OA1

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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





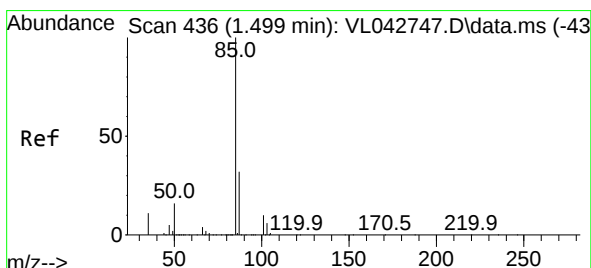
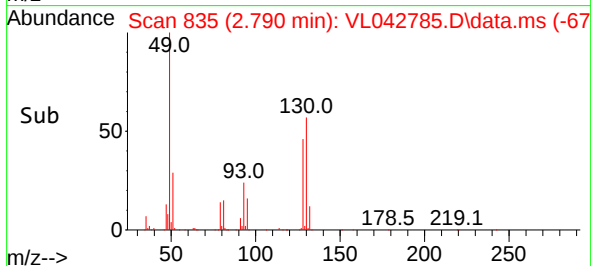
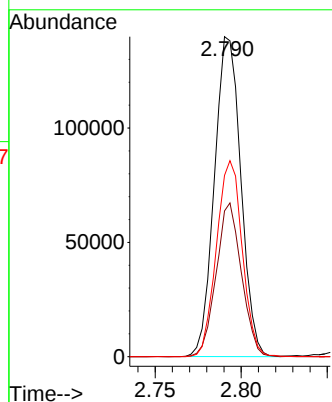
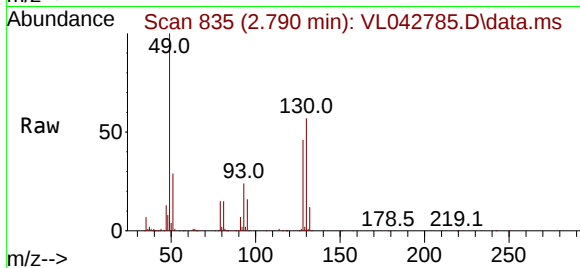
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 149534
Ion Ratio Lower Upper
49 100
128 46.0 23.6 71.0
130 59.8 30.3 90.8

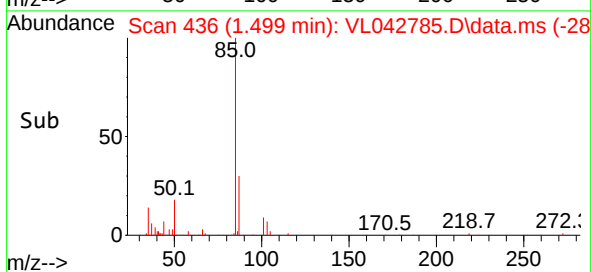
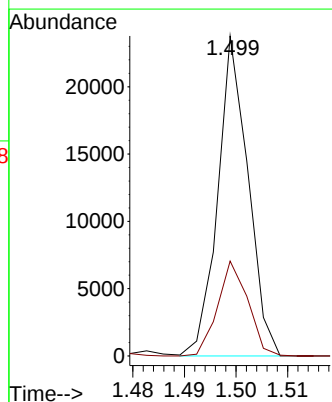
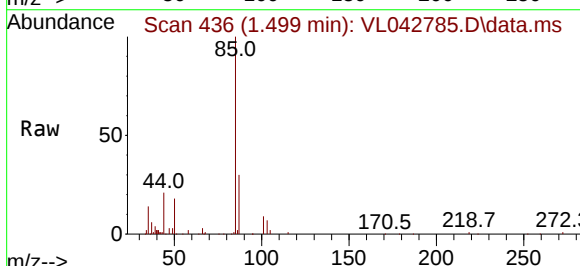
Manual Integrations
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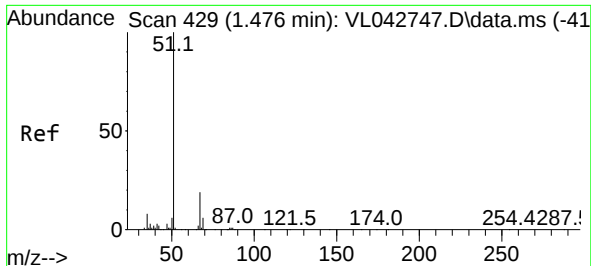
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 0.491 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Tgt Ion: 85 Resp: 9710
Ion Ratio Lower Upper
85 100
87 29.7 25.4 38.2





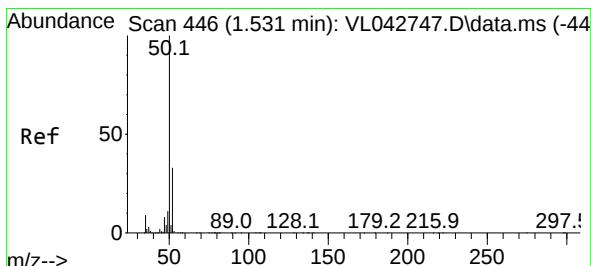
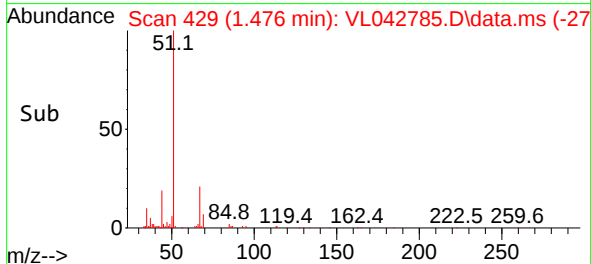
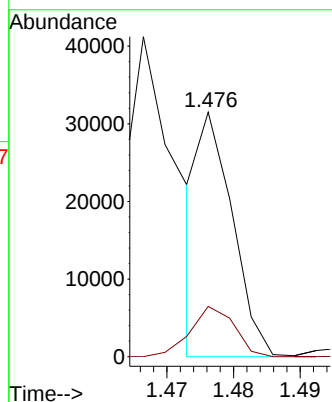
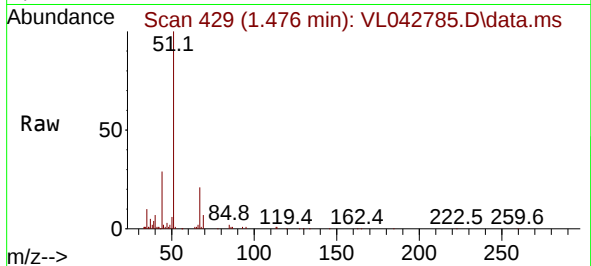
#3
Chlorodifluoromethane
Concen: 0.432 ppbv m
RT: 1.476 min Scan# 411
Delta R.T. -0.000 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 1111
Ion Ratio Lower Upper
51 100
67 27.6 15.0 22.6

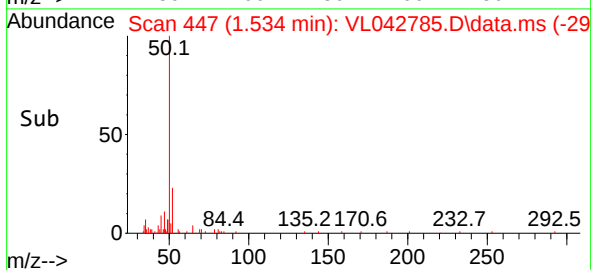
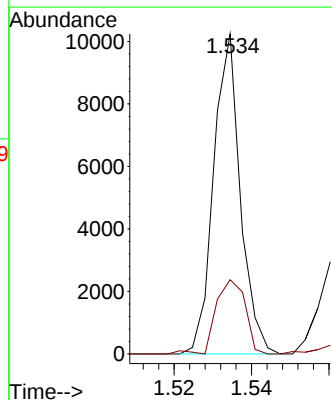
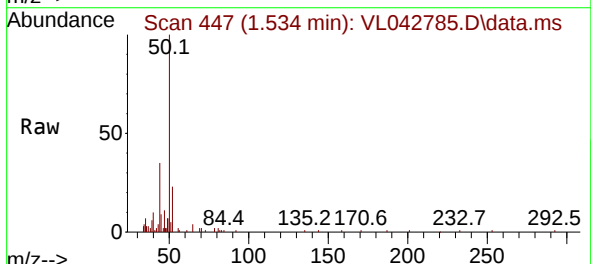
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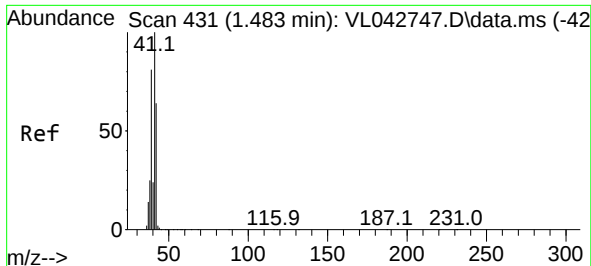
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#4
Chloromethane
Concen: 0.613 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

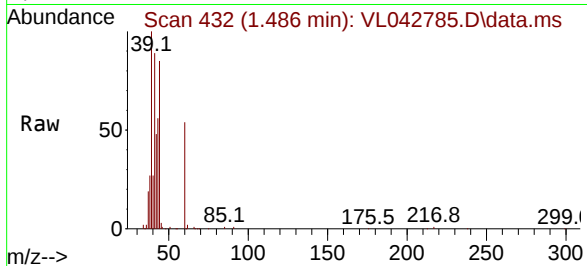
Tgt Ion: 50 Resp: 4905
Ion Ratio Lower Upper
50 100
52 23.2 26.6 40.0





#9
 Propene
 Concen: 1.527 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042785.D
 Acq: 29 Jul 2025 16:10

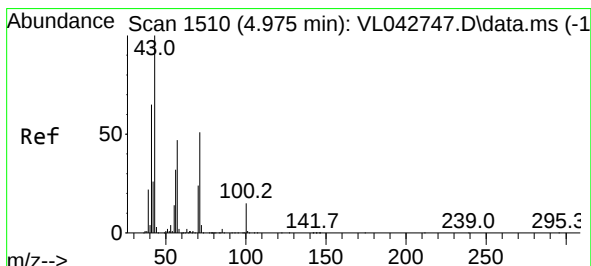
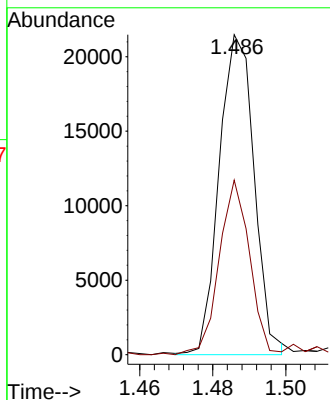
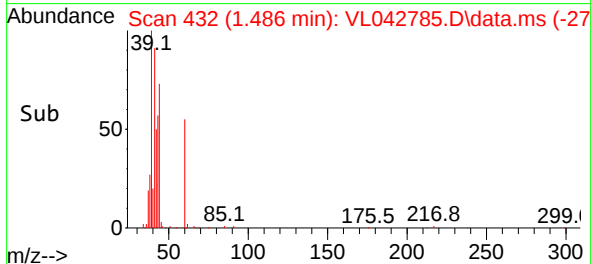
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



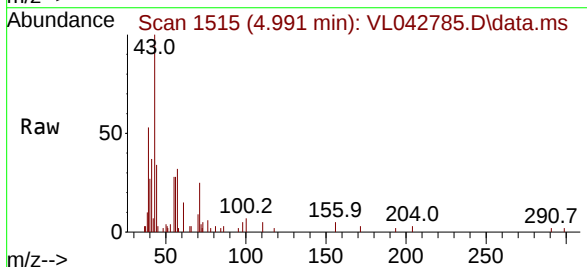
Tgt Ion: 41 Resp: 14290
 Ion Ratio Lower Upper
 41 100
 42 237.5 53.2 79.8

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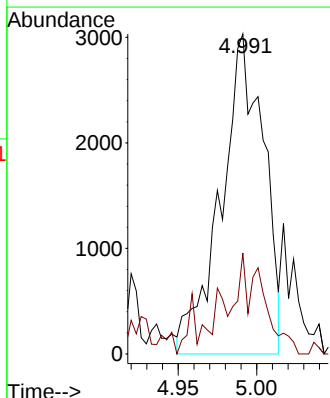
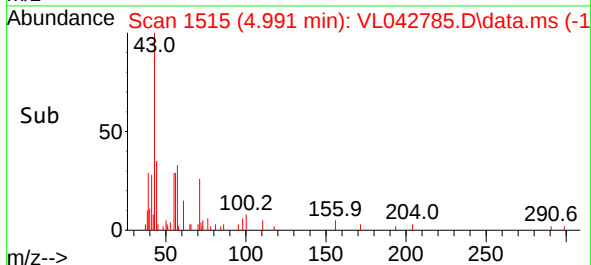
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

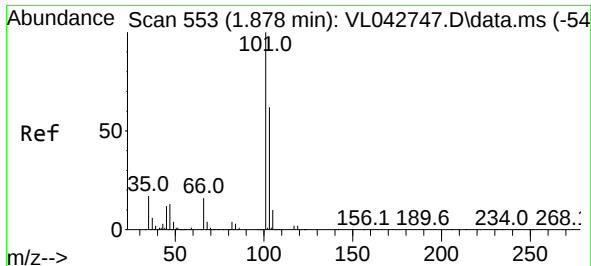


#10
 Heptane
 Concen: 0.227 ppbv m
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.016 min
 Lab File: VL042785.D
 Acq: 29 Jul 2025 16:10



Tgt Ion: 43 Resp: 5720
 Ion Ratio Lower Upper
 43 100
 57 30.2 39.9 59.9





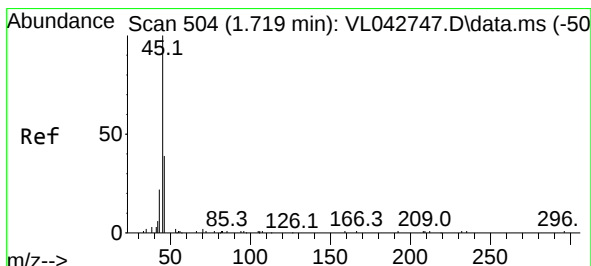
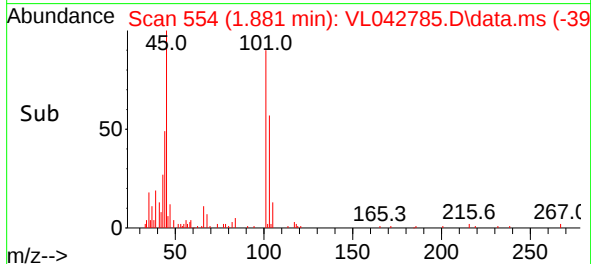
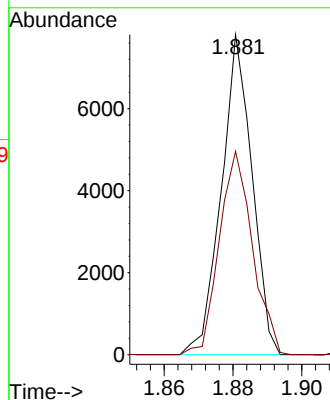
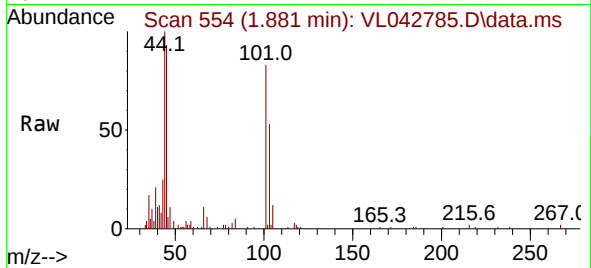
#11
 Trichlorofluoromethane
 Concen: 0.238 ppbv
 RT: 1.881 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042785.D
 Acq: 29 Jul 2025 16:10

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion:101 Resp: 484
 Ion Ratio Lower Upper
 101 100
 103 63.6 49.6 74.4

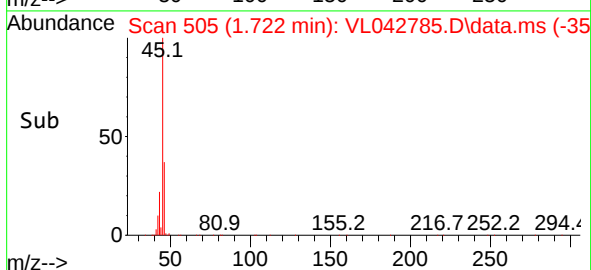
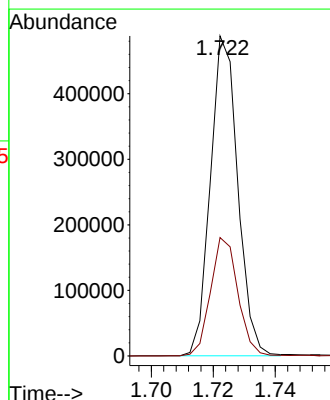
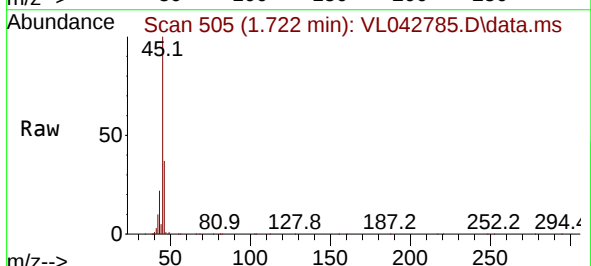
Manual Integrations
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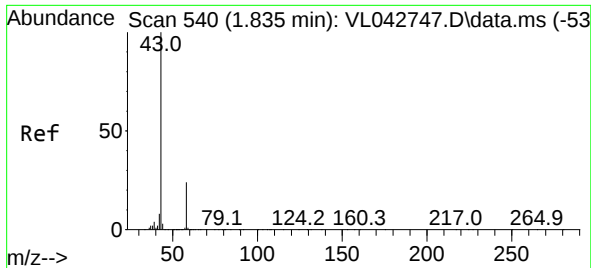
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#13
 Ethanol
 Concen: 437.926 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042785.D
 Acq: 29 Jul 2025 16:10

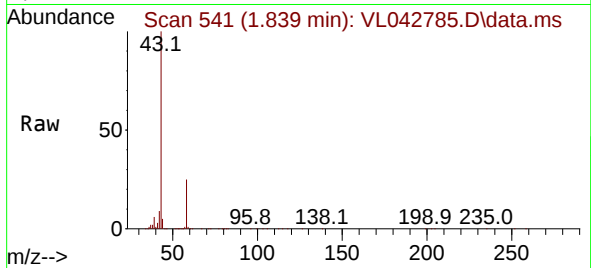
Tgt Ion: 45 Resp: 299258
 Ion Ratio Lower Upper
 45 100
 46 37.4 17.8 71.4





#15
Acetone
Concen: 7.863 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

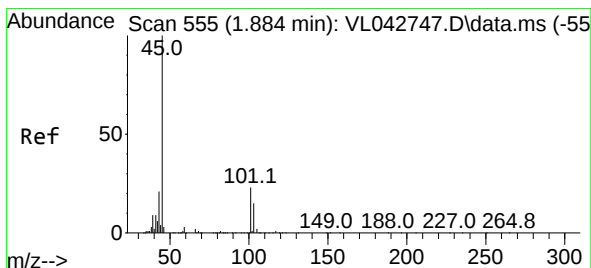
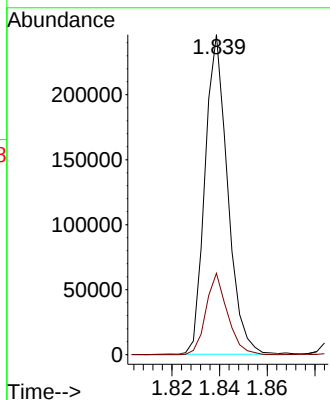
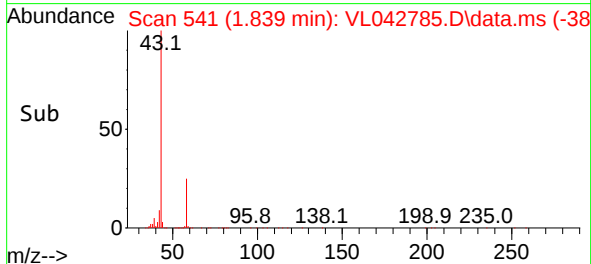
Instrument :
MSVOA_L
ClientSampleId :
OA1



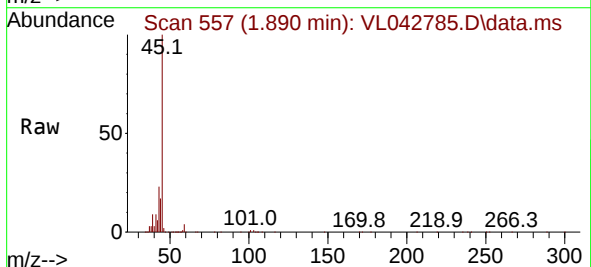
Tgt Ion: 43 Resp: 162360
Ion Ratio Lower Upper
43 100
58 24.2 19.8 29.8

Manual Integrations
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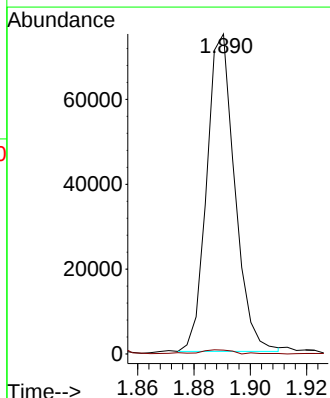
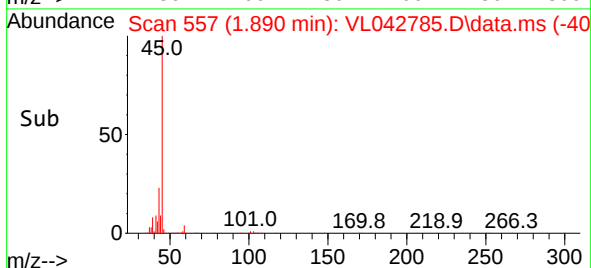
Reviewed By :Semsettin Yesilyurt 07/30/2025
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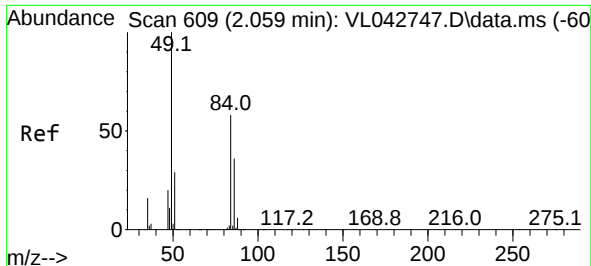


#19
Isopropyl Alcohol
Concen: 4.717 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10



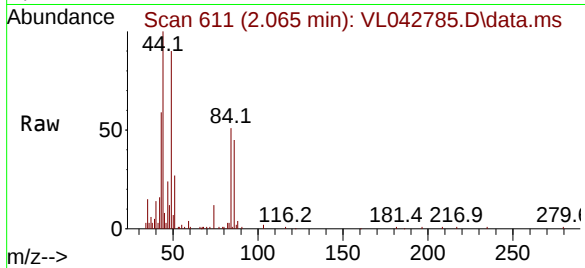
Tgt Ion: 45 Resp: 51757
Ion Ratio Lower Upper
45 100
58 75.8 30.0 45.0#





#20
Methylene Chloride
Concen: 0.700 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

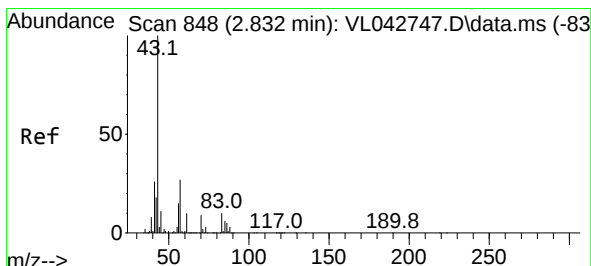
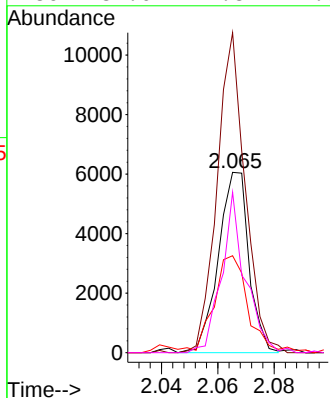
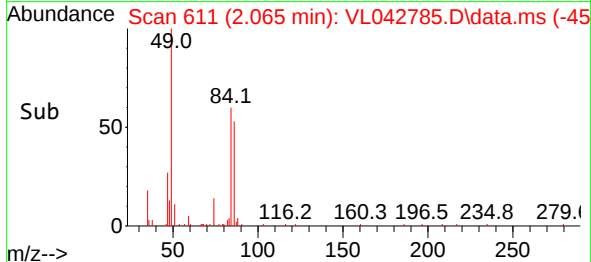
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 84 Resp: 4554
Ion Ratio Lower Upper
84 100
49 177.5 138.6 208.0
51 51.9 40.6 61.0
86 89.0 49.8 74.8#

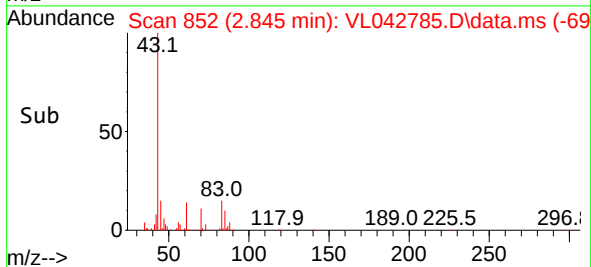
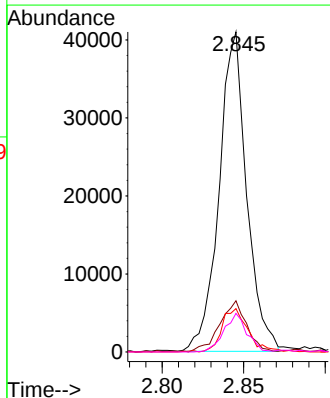
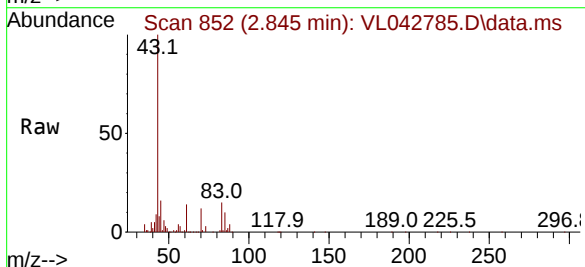
Manual Integrations
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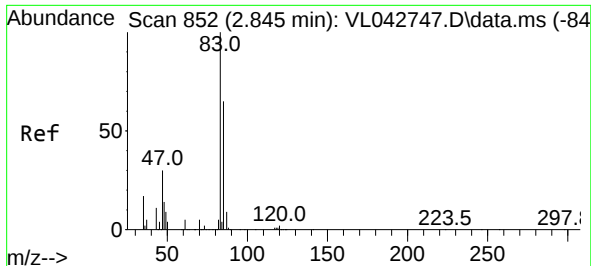
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#25
Ethyl Acetate
Concen: 1.054 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.013 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Tgt Ion: 43 Resp: 48188
Ion Ratio Lower Upper
43 100
45 16.6 7.8 11.6#
61 13.0 6.7 10.1#
70 10.7 6.6 10.0#





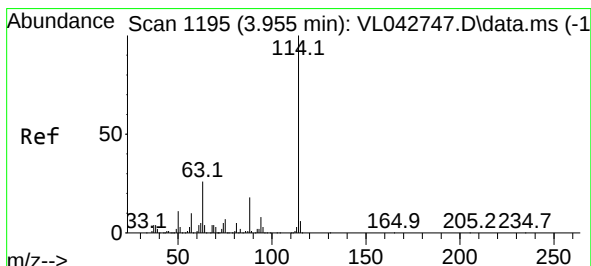
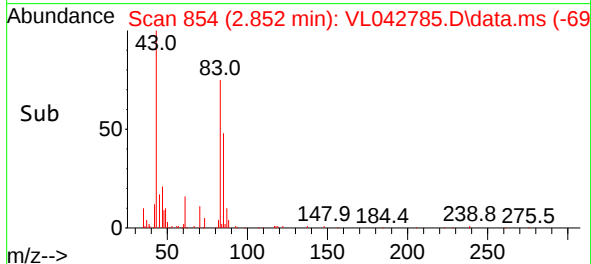
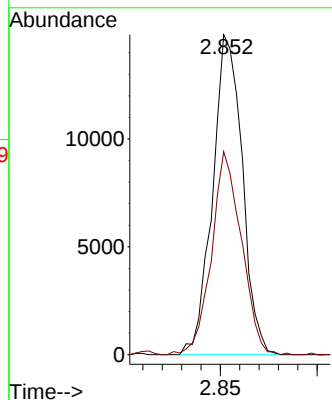
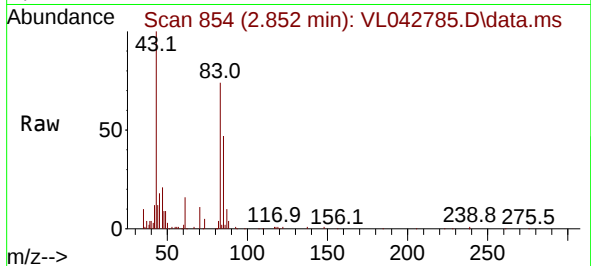
#29
Chloroform
Concen: 0.510 ppbv
RT: 2.852 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 83 Resp: 15792
Ion Ratio Lower Upper
83 100
85 63.5 52.2 78.2

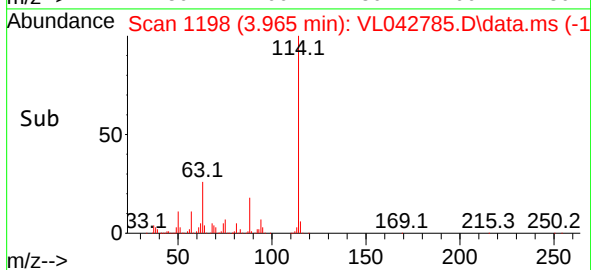
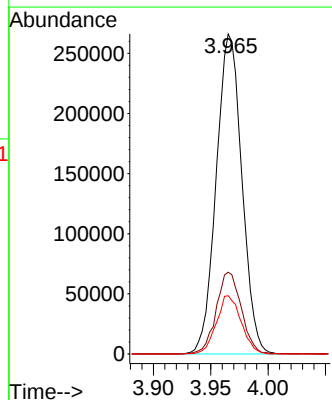
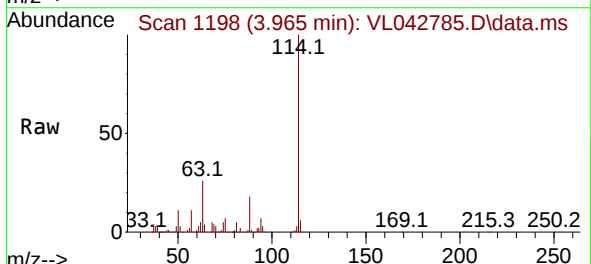
Manual Integrations
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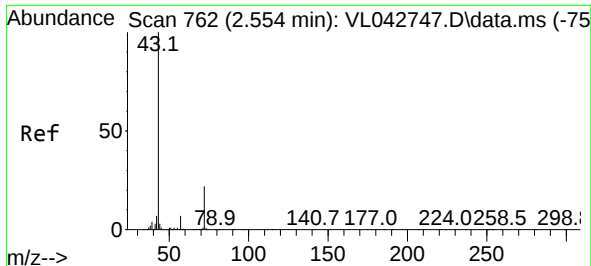
Reviewed By :Semsettin Yesilyurt 07/30/2025
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.010 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

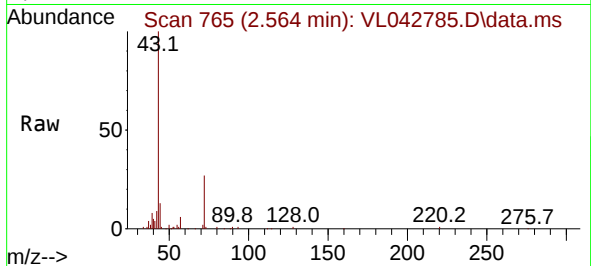
Tgt Ion:114 Resp: 413656
Ion Ratio Lower Upper
114 100
63 25.0 20.5 30.7
88 17.6 14.0 21.0





#34
2-Butanone
Concen: 0.568 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

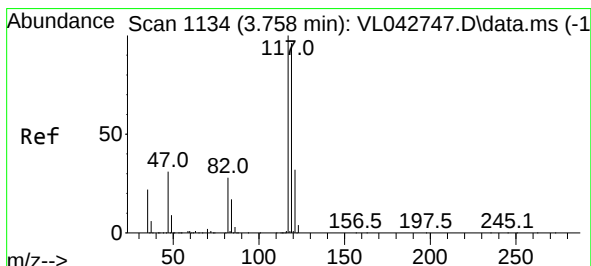
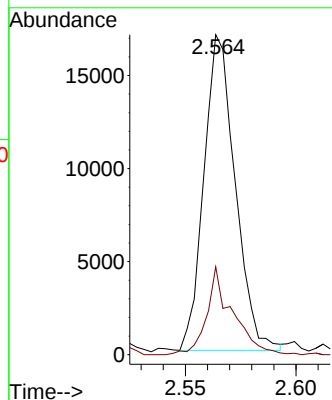
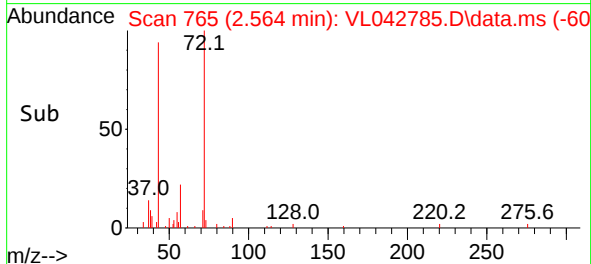
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 16650
Ion Ratio Lower Upper
43 100
72 23.1 17.4 26.0

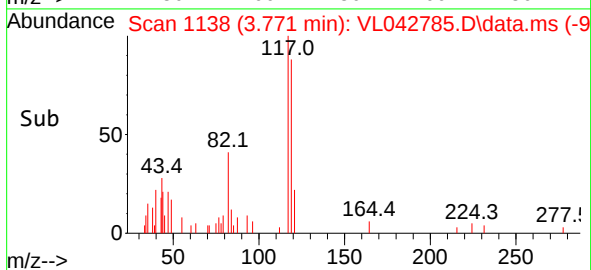
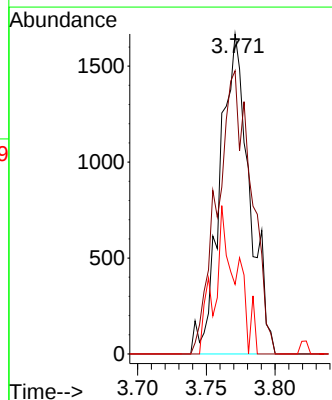
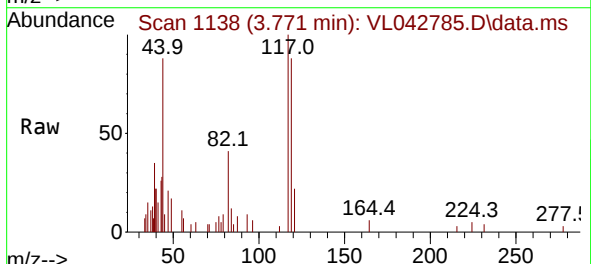
Manual Integrations
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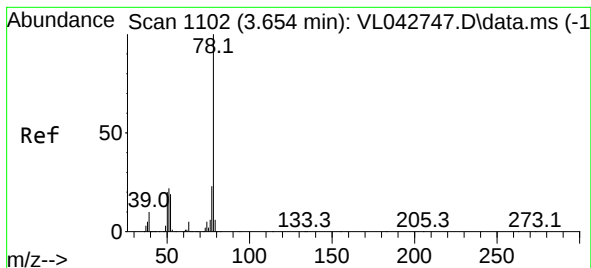
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#35
Carbon Tetrachloride
Concen: 0.081 ppbv m
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Tgt Ion:117 Resp: 2484
Ion Ratio Lower Upper
117 100
119 88.5 77.1 115.7
121 21.8 25.5 38.3#





#36

Benzene

Concen: 0.431 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.010 min

Lab File: VL042785.D

Acq: 29 Jul 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

OA1

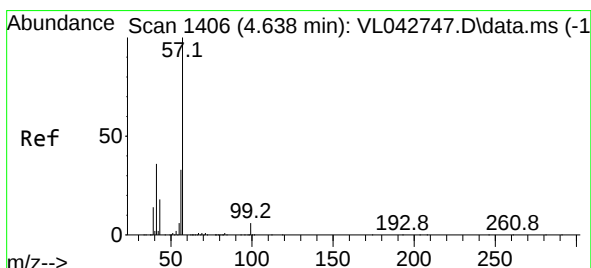
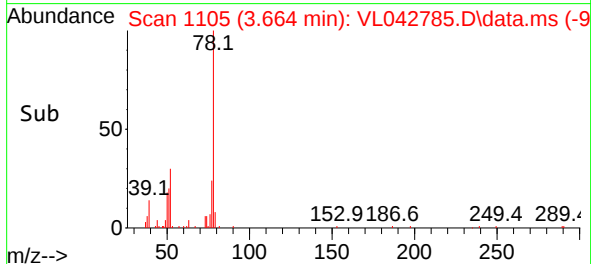
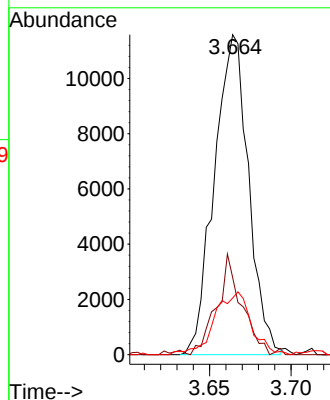
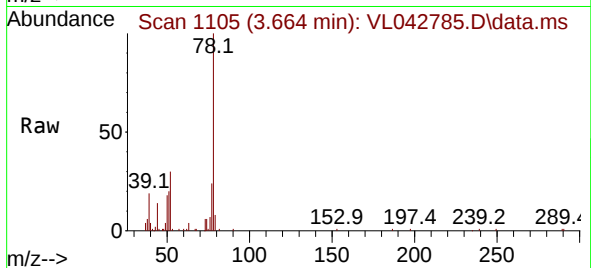
Tgt Ion: 78 Resp: 1688

Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.5	27.7
50	16.8	16.2	24.2

Manual Integrations

APPROVED

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



#44

2,2,4-Trimethylpentane

Concen: 0.210 ppbv m

RT: 4.648 min Scan# 1409

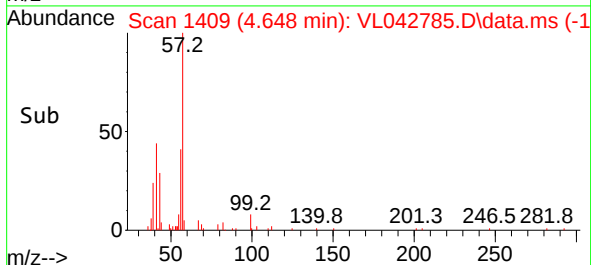
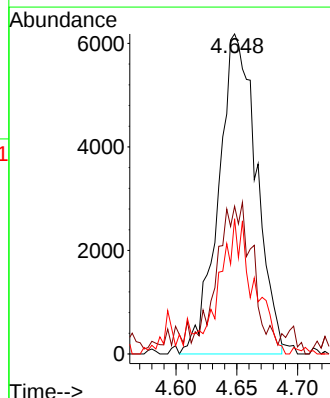
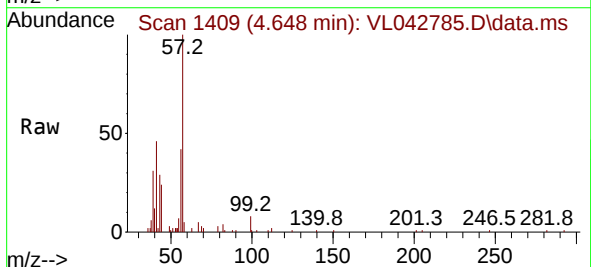
Delta R.T. 0.010 min

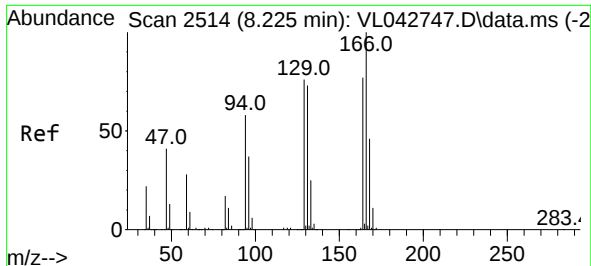
Lab File: VL042785.D

Acq: 29 Jul 2025 16:10

Tgt Ion: 57 Resp: 13410

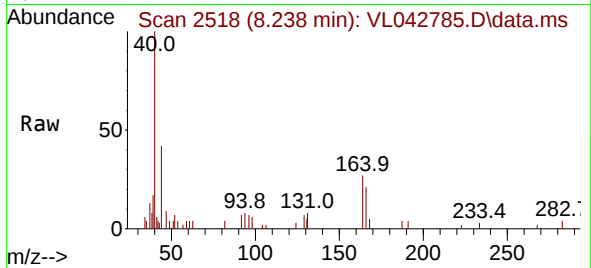
Ion	Ratio	Lower	Upper
57	100		
41	50.2	28.3	42.5#
56	40.3	25.8	38.6#





#52
Tetrachloroethene
Concen: 0.047 ppbv m
RT: 8.238 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

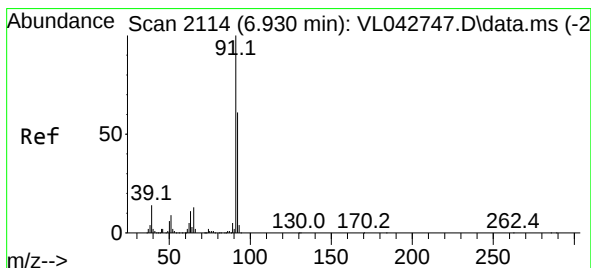
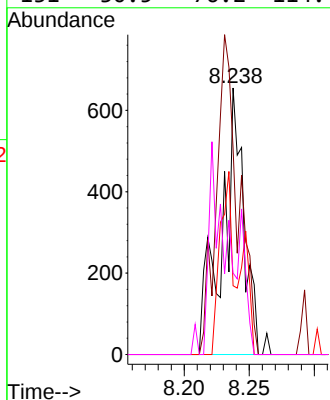
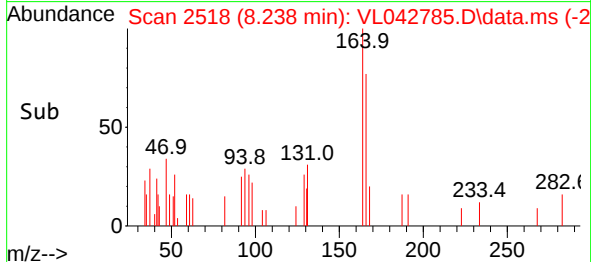
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:164 Resp: 76
Ion Ratio Lower Upper
164 100
166 77.4 104.0 156.0
129 25.8 79.2 118.8
131 30.5 76.2 114.4

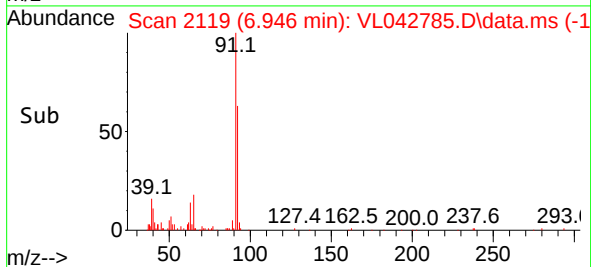
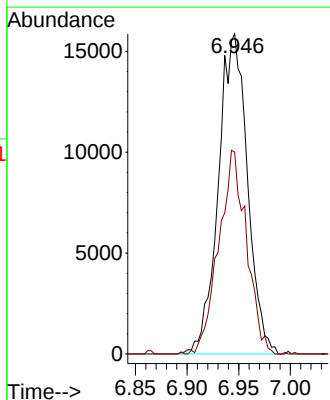
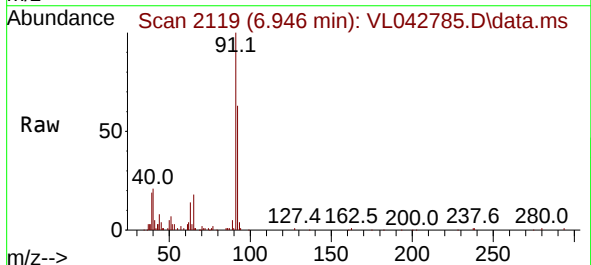
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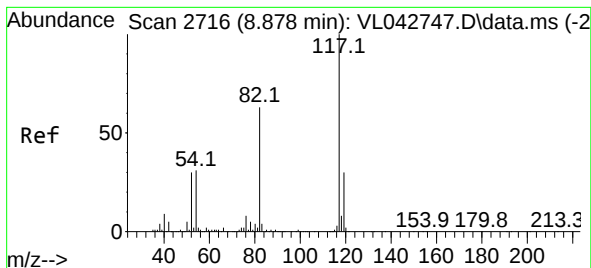
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#53
Toluene
Concen: 0.740 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Tgt Ion: 91 Resp: 31140
Ion Ratio Lower Upper
91 100
92 60.7 48.0 72.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042785.D

Acq: 29 Jul 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

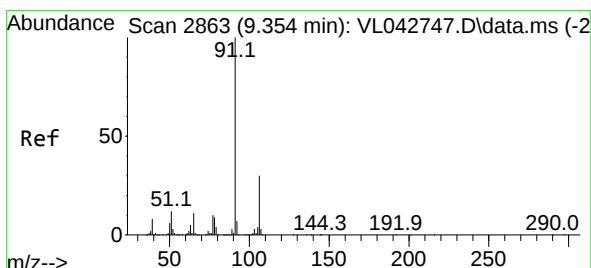
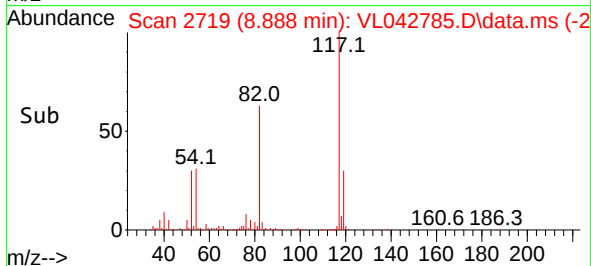
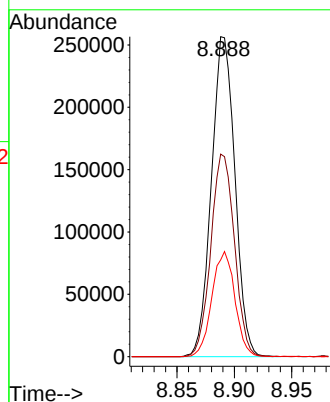
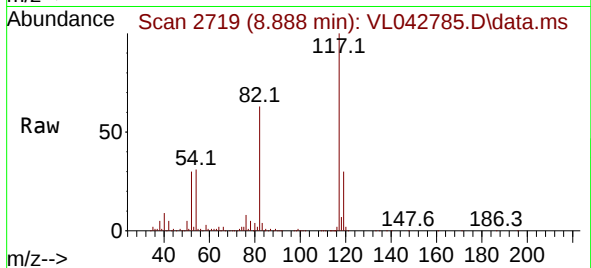
OA1

Tgt Ion:	117	Resp:	36576
Ion Ratio	Lower	Upper	
117	100		
82	63.7	53.3	79.9
119	32.2	25.8	38.6

Manual Integrations

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



#58

Ethyl Benzene

Concen: 0.106 ppbv m

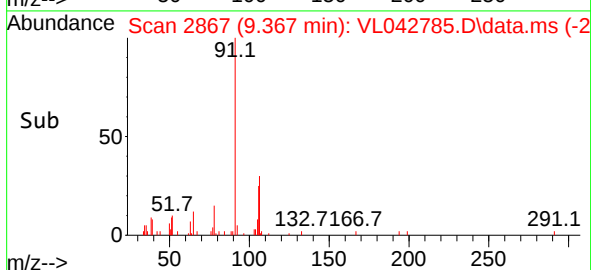
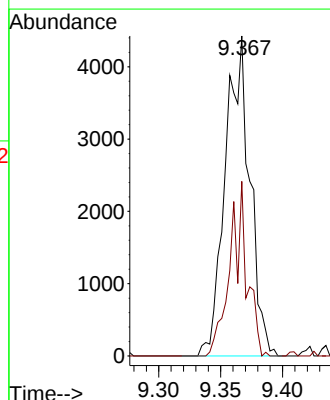
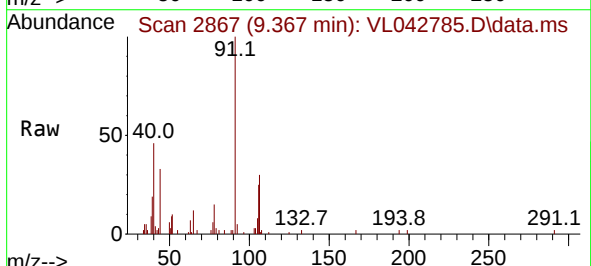
RT: 9.367 min Scan# 2867

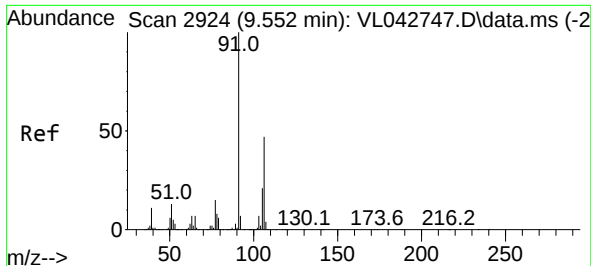
Delta R.T. 0.013 min

Lab File: VL042785.D

Acq: 29 Jul 2025 16:10

Tgt Ion:	91	Resp:	6131
Ion Ratio	Lower	Upper	
91	100		
106	30.0	23.8	35.6





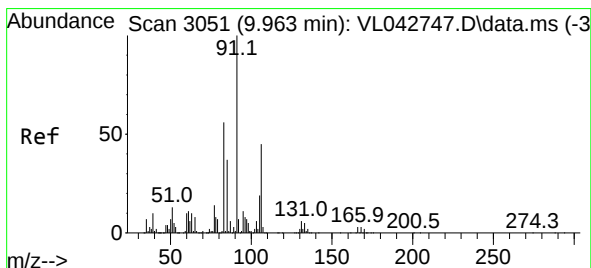
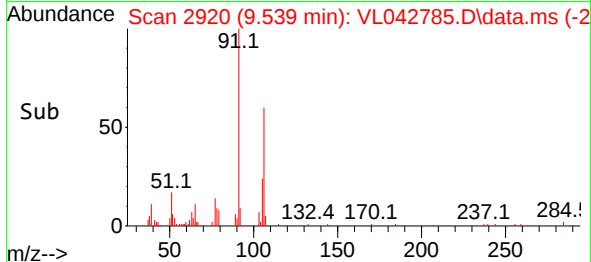
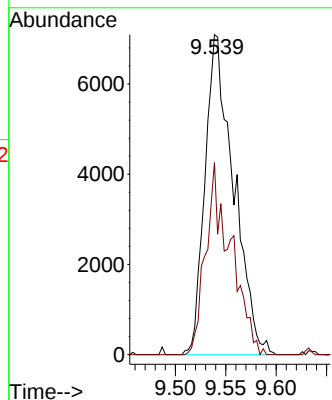
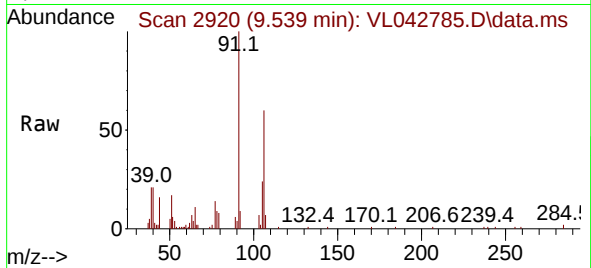
#59
m/p-Xylene
Concen: 0.304 ppbv m
RT: 9.539 min Scan# 2924
Delta R.T. -0.013 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 1402
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2

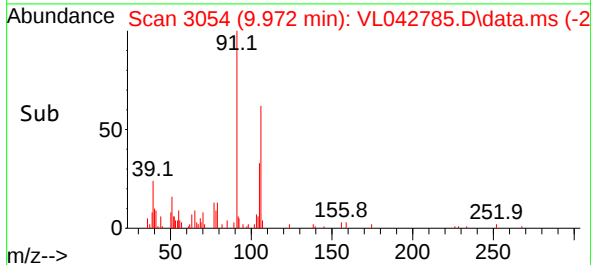
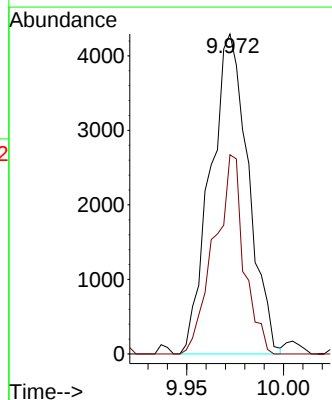
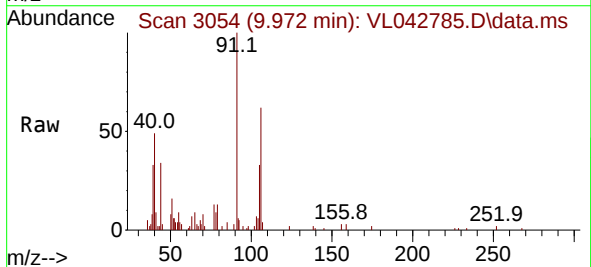
Manual Integrations
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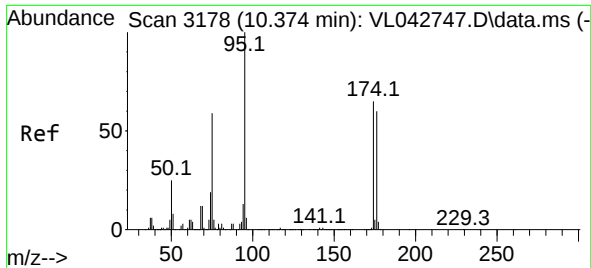
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#60
o-Xylene
Concen: 0.127 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

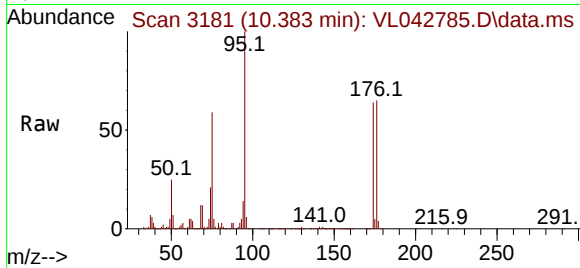
Tgt Ion: 91 Resp: 5849
Ion Ratio Lower Upper
91 100
106 49.0 22.0 66.0





#68
1-Bromo-4-Fluorobenzene
Concen: 9.919 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

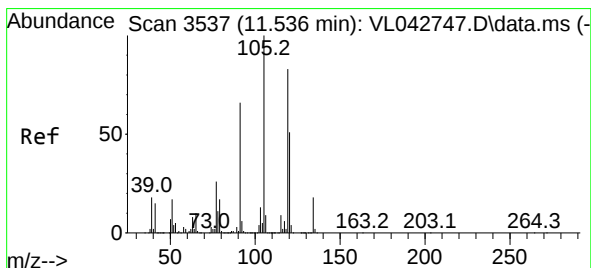
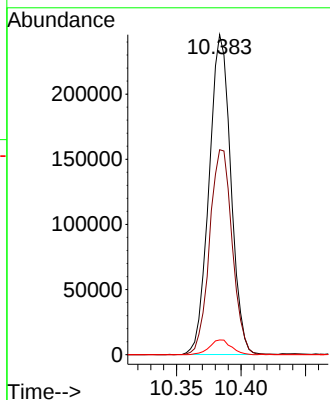
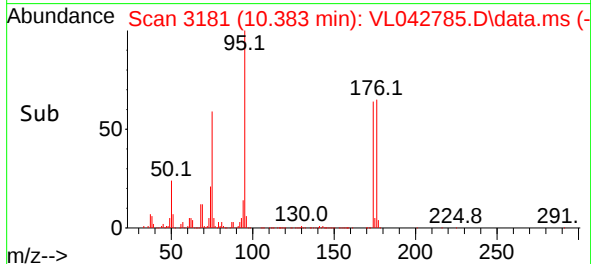
Instrument :
MSVOA_L
ClientSampleId :
OA1



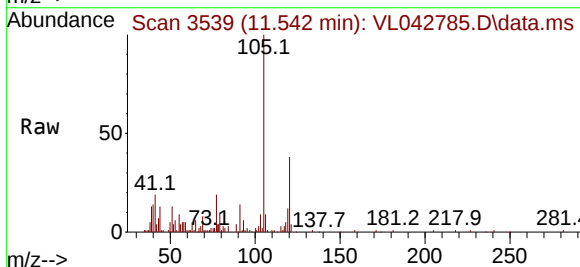
Tgt Ion: 95 Resp: 28731
Ion Ratio Lower Upper
95 100
174 66.7 53.8 80.6
175 4.6 4.0 6.0

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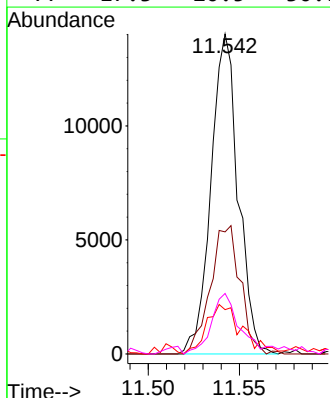
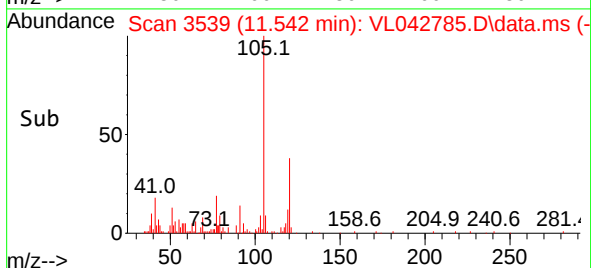
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

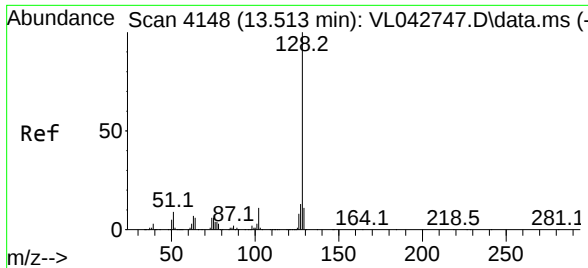


#74
1,2,4-Trimethylbenzene
Concen: 0.294 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10



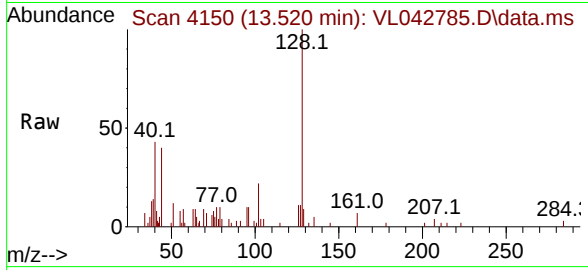
Tgt Ion:105 Resp: 14560
Ion Ratio Lower Upper
105 100
120 38.2 40.8 61.2#
91 13.2 53.0 79.4#
77 17.3 20.5 30.7#





#79
Naphthalene
Concen: 0.491 ppbv
RT: 13.520 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:	128	Resp:	315
Ion Ratio	Lower	Upper	
128	100		
127	11.2	10.5	15.7
129	9.4	8.6	13.0

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

