

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
 Data File : VL042966.D
 Acq On : 22 Sep 2025 20:24
 Operator : SY/MD
 Sample : Q3112-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 02:55:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M

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

QLast Update : Tue Sep 23 02:39:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	158622	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.968	114	483571	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	428101	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 320479 10.029 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	2575	0.121	ppbv	90
3) Chlorodifluoromethane	1.473	51	33690	1.267	ppbv	99
4) Chloromethane	1.531	50	1334	0.138	ppbv	95
9) Propene	1.482	41	452382	39.107	ppbv	88
10) Heptane	4.991	43	34930m	1.131	ppbv	
11) Trichlorofluoromethane	1.884	101	3259	0.158	ppbv	84
13) Ethanol	1.725	45	7215	6.429	ppbv #	35
15) Acetone	1.839	43	532821	25.790	ppbv	95
17) tert-Butyl alcohol	2.049	59	5527	0.244	ppbv #	58
19) Isopropyl Alcohol	1.890	45	40694	3.277	ppbv #	1
26) Hexane	2.835	57	54134	2.274	ppbv #	38
29) Chloroform	2.858	83	14657	0.471	ppbv	100
30) Cyclohexane	3.871	84	6268	0.315	ppbv #	90
34) 2-Butanone	2.564	43	151989	4.485	ppbv	98
36) Benzene	3.664	78	57111	1.258	ppbv	94
52) Tetrachloroethene	8.234	164	6759	0.385	ppbv	90
53) Toluene	6.943	91	86331	1.606	ppbv	99
58) Ethyl Benzene	9.360	91	11418	0.162	ppbv	92
59) m/p-Xylene	9.538	91	25130	0.453	ppbv #	100
60) o-Xylene	9.969	91	11752	0.212	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	15371	0.247	ppbv #	66

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

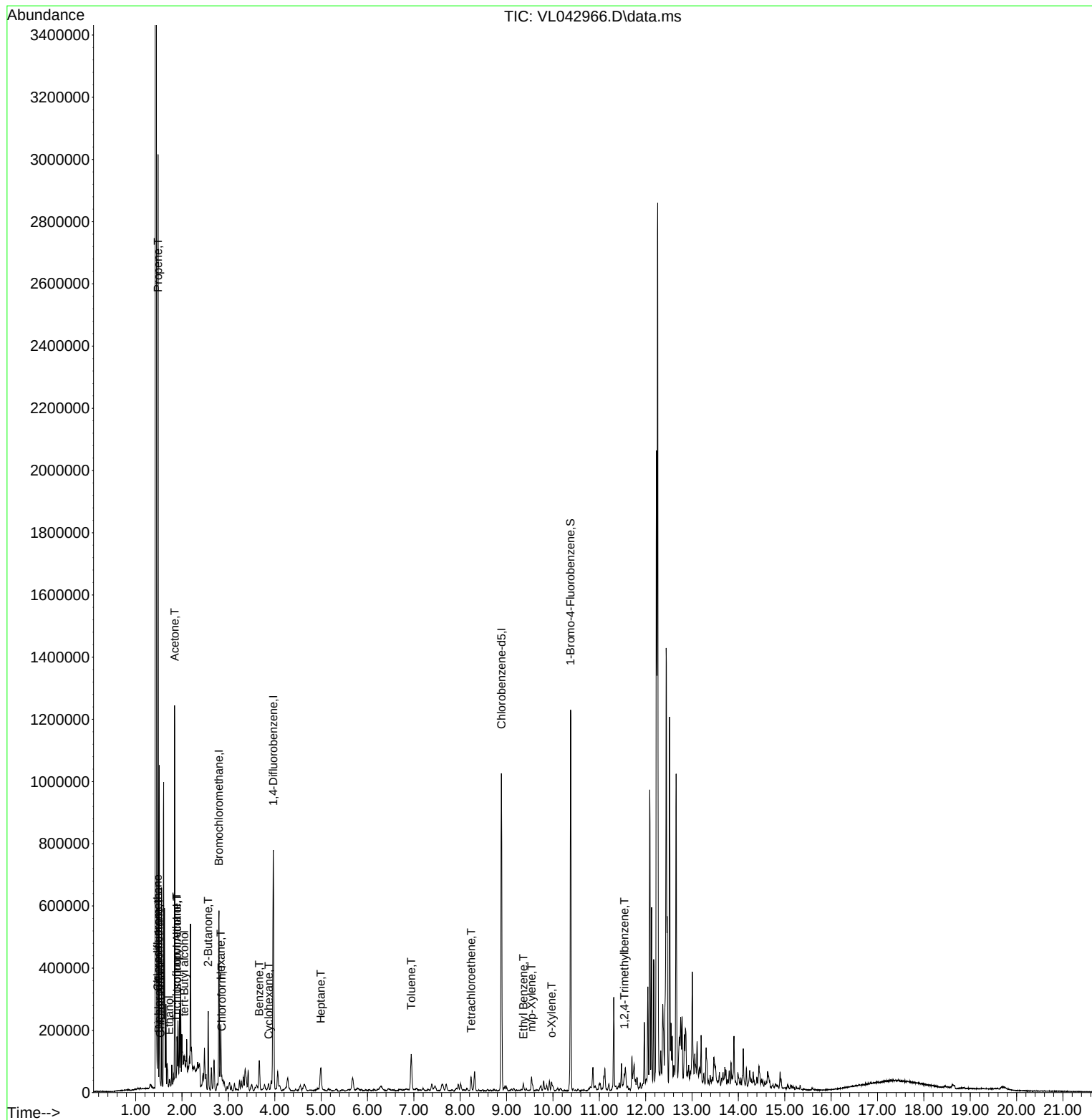
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092225\
Data File : VL042966.D
Acq On : 22 Sep 2025 20:24
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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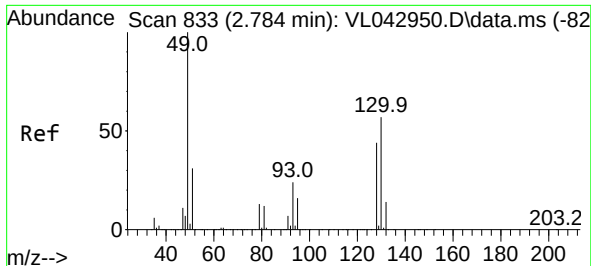
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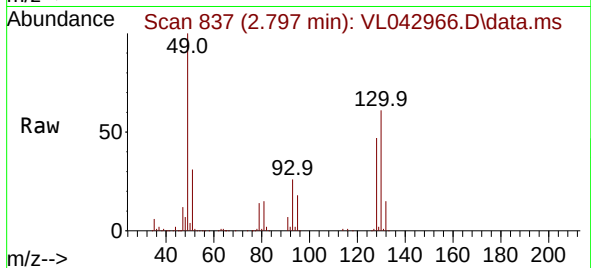
Quant Time: Sep 23 02:55:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 23 02:39:16 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

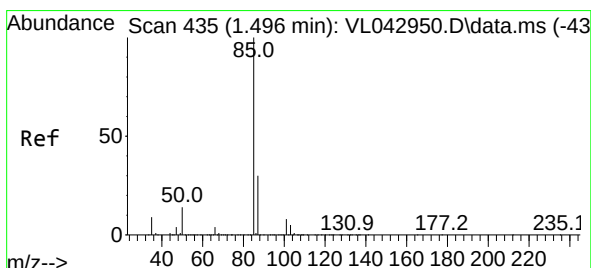
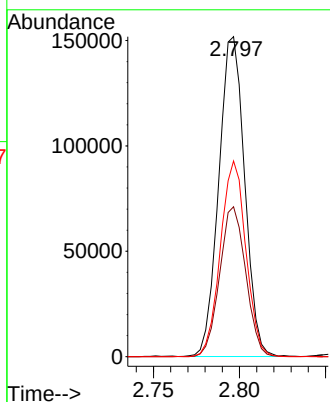
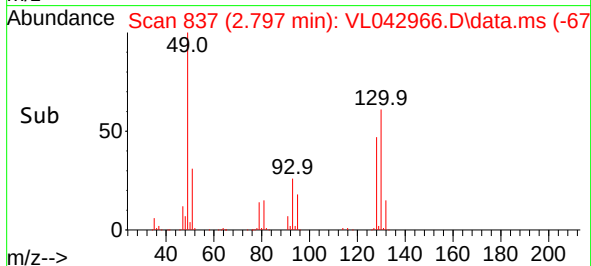
Instrument :
MSVOA_L
ClientSampleId :
SV3



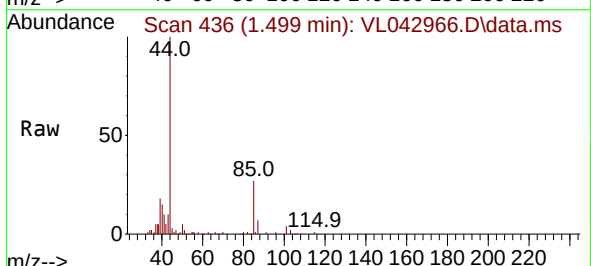
Tgt Ion: 49 Resp: 15862
Ion Ratio Lower Upper
49 100
128 47.3 22.9 68.8
130 60.2 29.1 87.3

Manual Integrations
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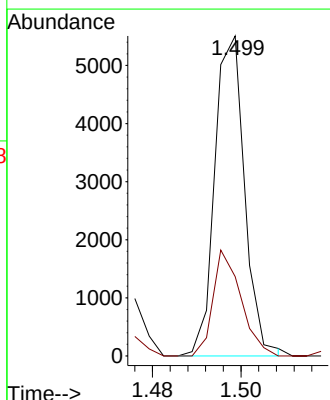
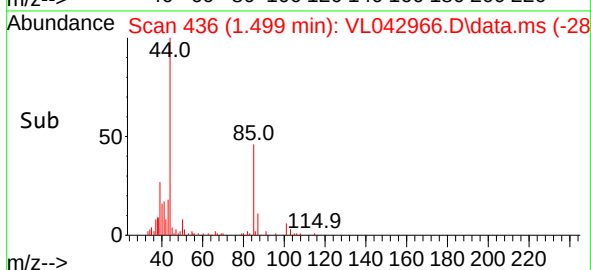
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

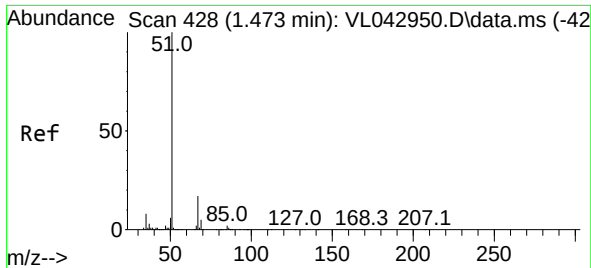


#2
Dichlorodifluoromethane
Concen: 0.121 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24



Tgt Ion: 85 Resp: 2575
Ion Ratio Lower Upper
85 100
87 24.8 24.3 36.5





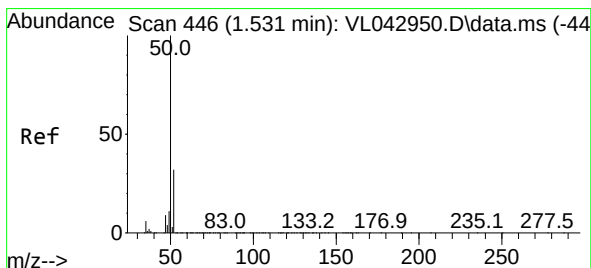
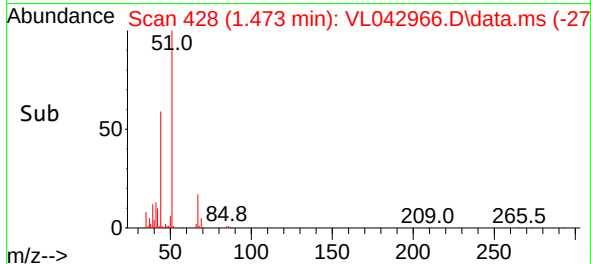
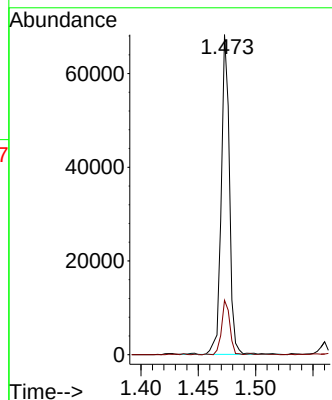
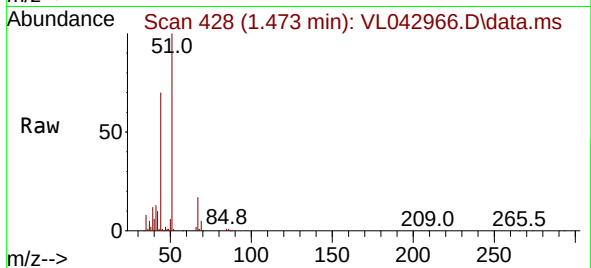
#3
Chlorodifluoromethane
Concen: 1.267 ppbv
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 51 Resp: 33690
Ion Ratio Lower Upper
51 100
67 17.7 13.8 20.8

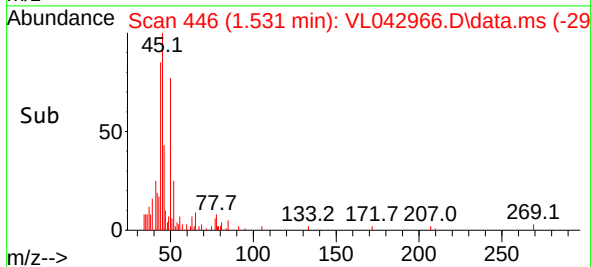
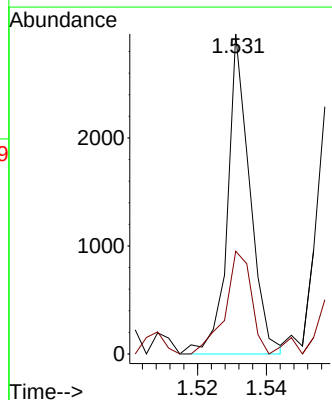
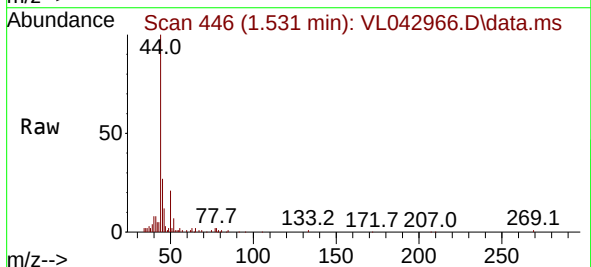
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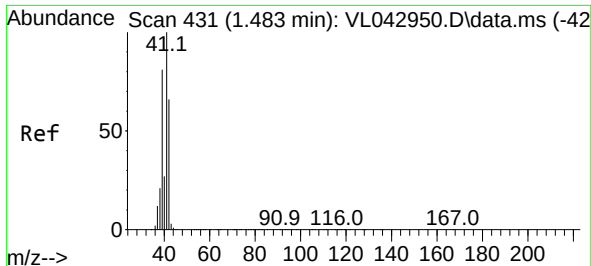
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#4
Chloromethane
Concen: 0.138 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

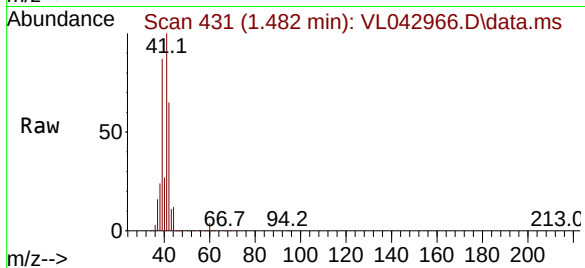
Tgt Ion: 50 Resp: 1334
Ion Ratio Lower Upper
50 100
52 29.7 25.9 38.9





#9
Propene
Concen: 39.107 ppbv
RT: 1.482 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

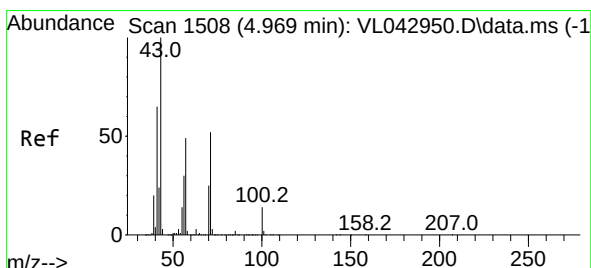
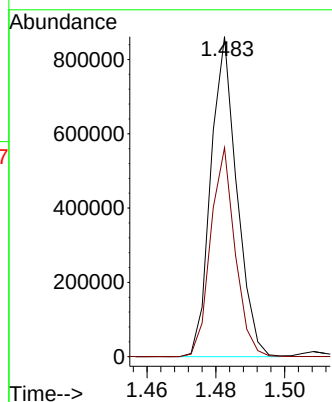
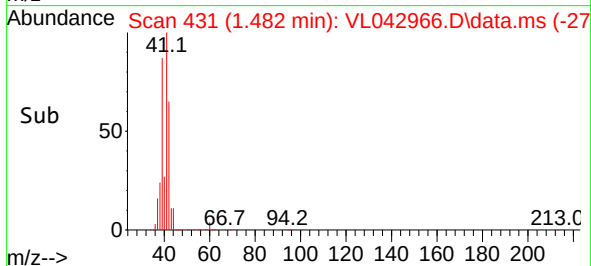
Instrument :
MSVOA_L
ClientSampleId :
SV3



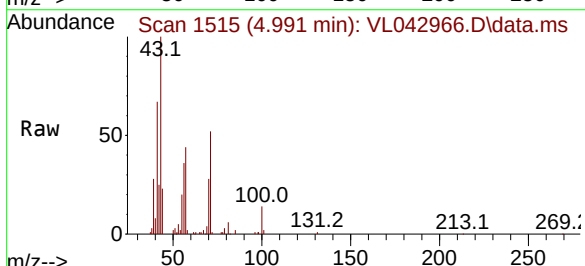
Tgt Ion: 41 Resp: 45238
Ion Ratio Lower Upper
41 100
42 61.6 57.4 86.2

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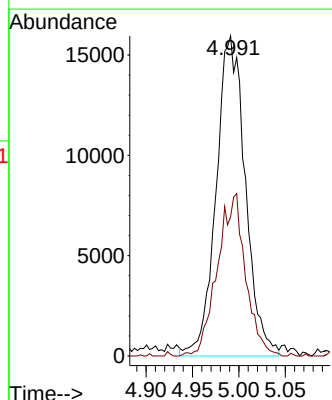
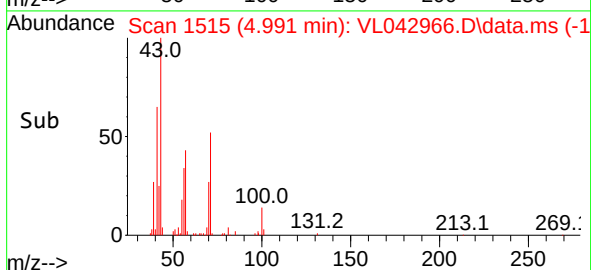
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

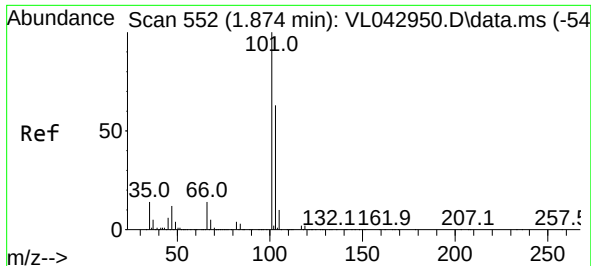


#10
Heptane
Concen: 1.131 ppbv m
RT: 4.991 min Scan# 1515
Delta R.T. 0.022 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24



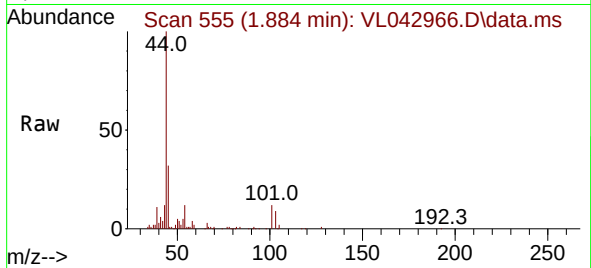
Tgt Ion: 43 Resp: 34930
Ion Ratio Lower Upper
43 100
57 0.0 38.6 57.8#





#11
Trichlorofluoromethane
Concen: 0.158 ppbv
RT: 1.884 min Scan# 506
Delta R.T. 0.009 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

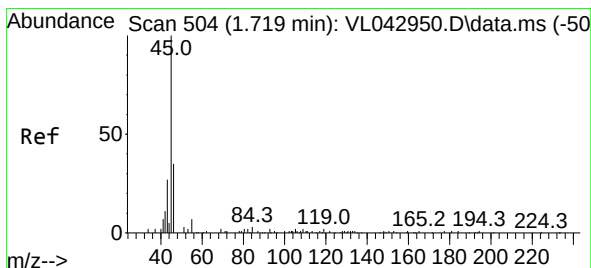
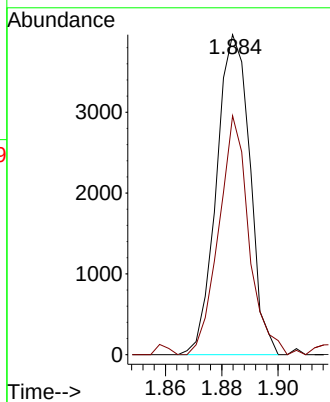
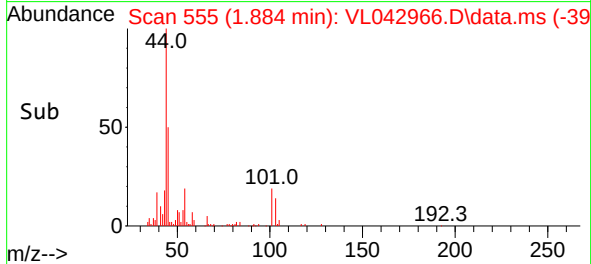
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:101 Resp: 3259
Ion Ratio Lower Upper
101 100
103 74.6 50.1 75.1

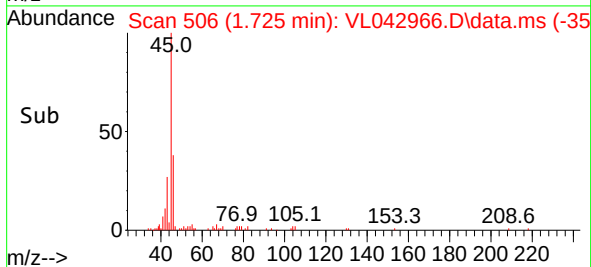
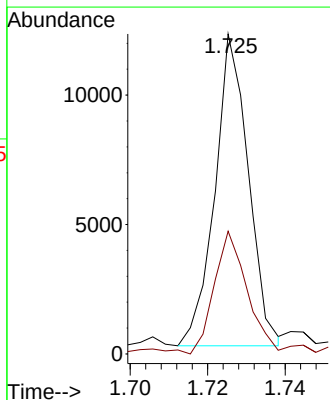
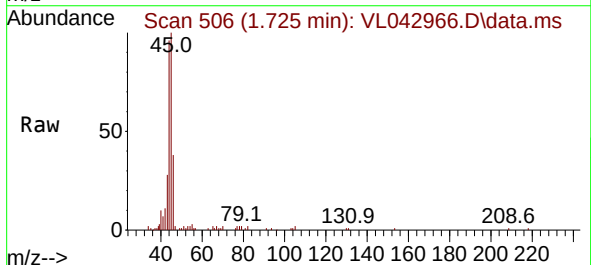
Manual Integrations
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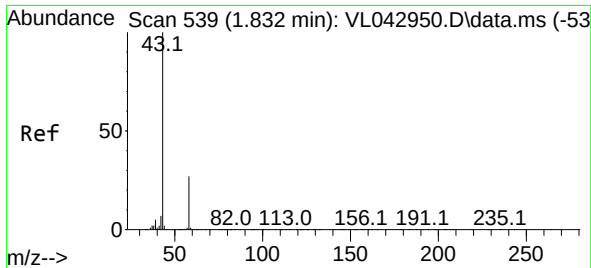
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#13
Ethanol
Concen: 6.429 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

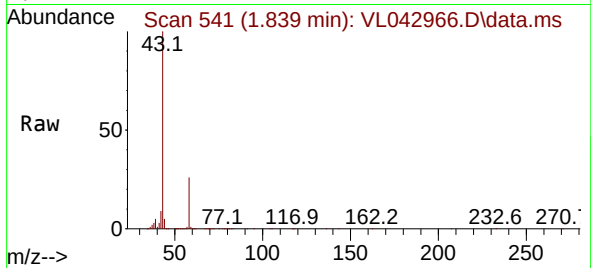
Tgt Ion: 45 Resp: 7215
Ion Ratio Lower Upper
45 100
46 0.0 16.2 64.6#





#15
Acetone
Concen: 25.790 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

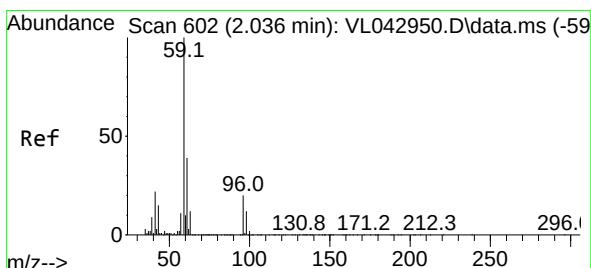
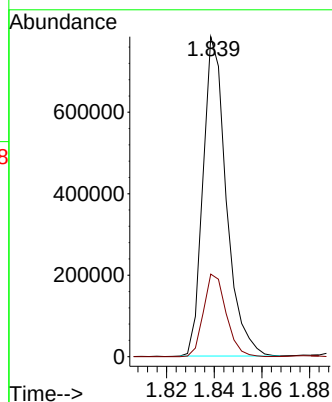
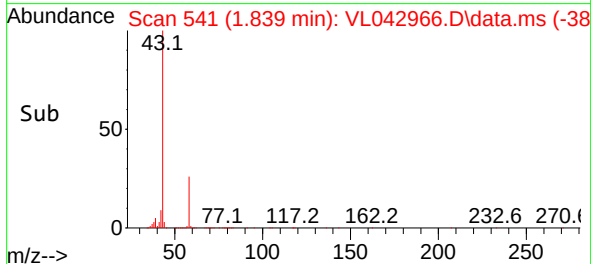
Instrument :
MSVOA_L
ClientSampleId :
SV3



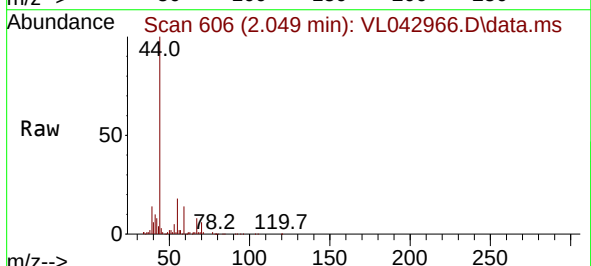
Tgt Ion: 43 Resp: 53282
Ion Ratio Lower Upper
43 100
58 25.3 22.3 33.5

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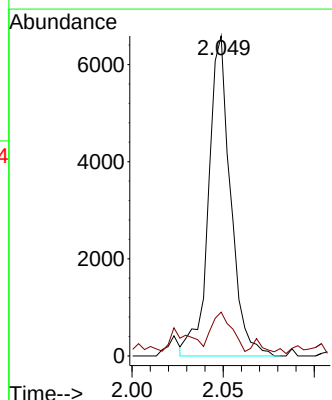
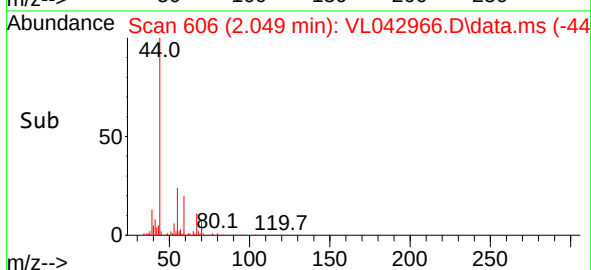
Reviewed By :Semsettin Yesilyurt 09/23/2025
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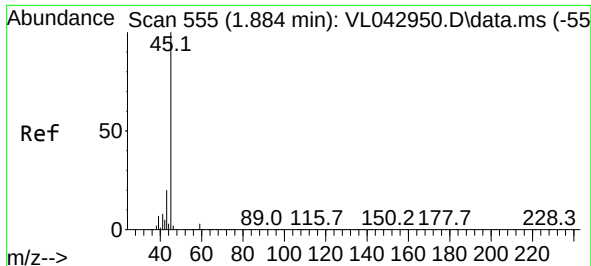


#17
tert-Butyl alcohol
Concen: 0.244 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.013 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24



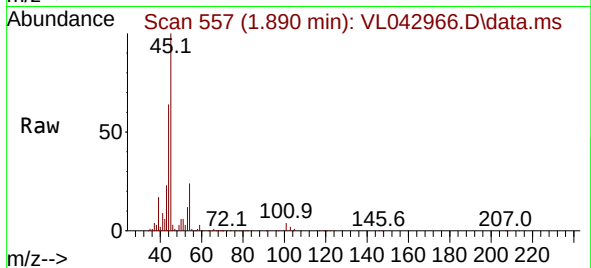
Tgt Ion: 59 Resp: 5527
Ion Ratio Lower Upper
59 100
57 26.7 8.6 12.8





#19
Isopropyl Alcohol
Concen: 3.277 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

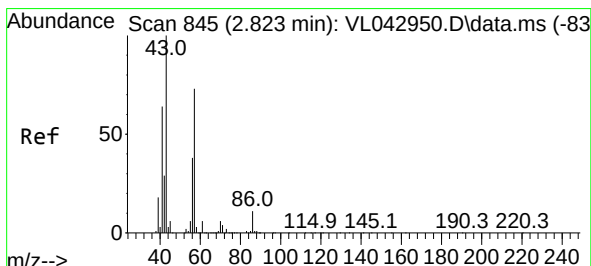
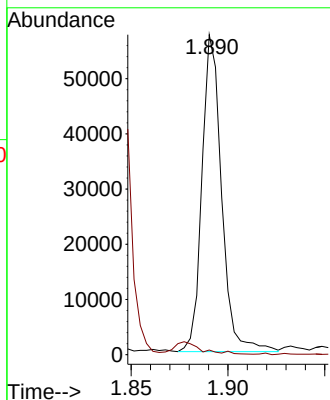
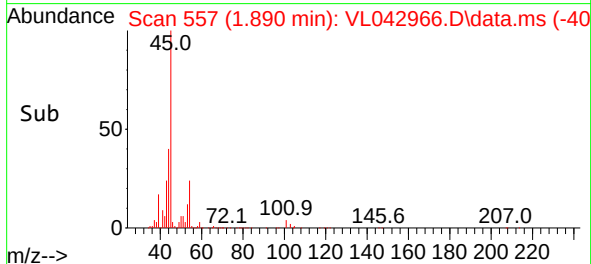
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 45 Resp: 40694
Ion Ratio Lower Upper
45 100
58 330.6 31.0 46.6

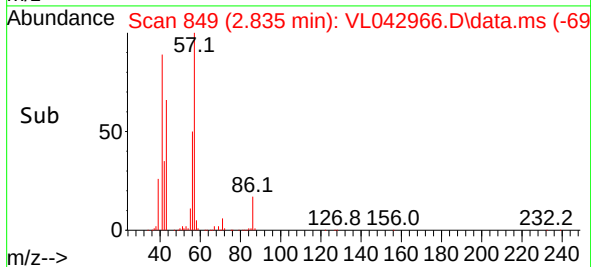
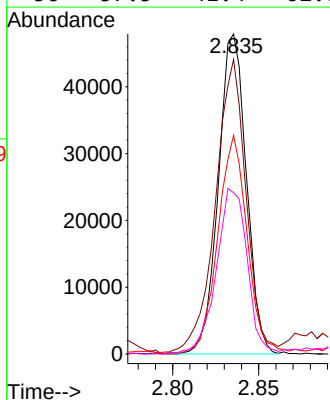
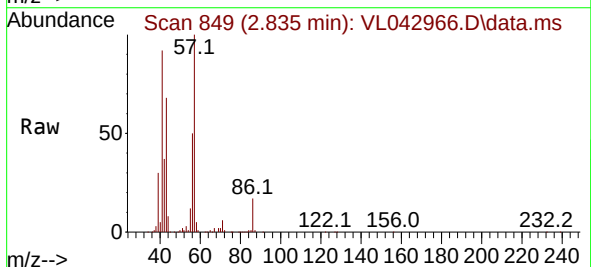
Manual Integrations
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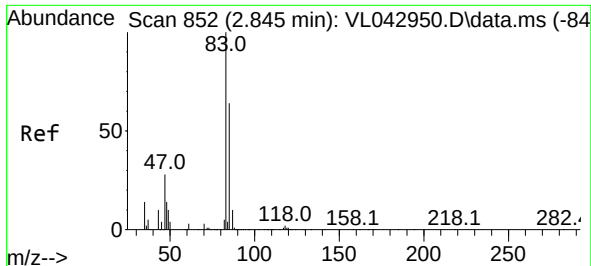
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#26
Hexane
Concen: 2.274 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.013 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

Tgt Ion: 57 Resp: 54134
Ion Ratio Lower Upper
57 100
41 98.4 71.7 107.5
43 71.0 180.8 271.2#
56 57.5 41.4 62.0





#29

Chloroform

Concen: 0.471 ppbv

RT: 2.858 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL042966.D

Acq: 22 Sep 2025 20:24

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 83 Resp: 1465

Ion Ratio Lower Upper

83 100

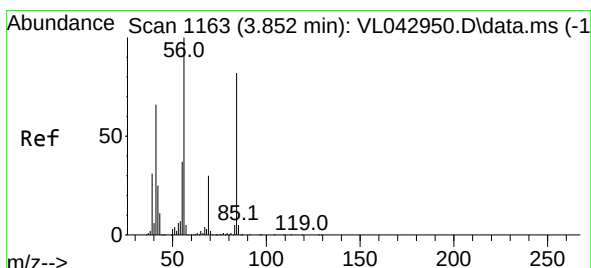
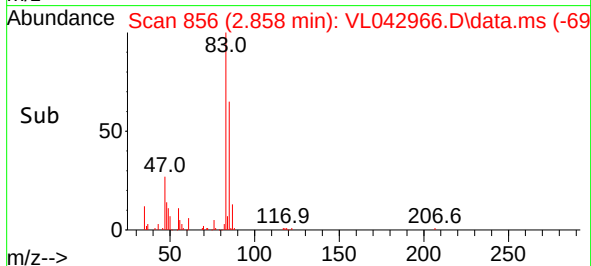
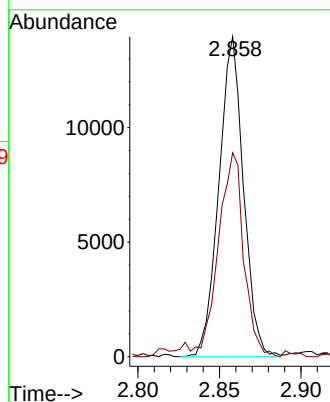
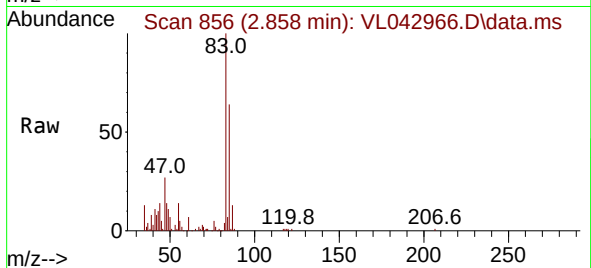
85 63.8 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025

Supervised By :Mahesh Dadoda 09/24/2025



#30

Cyclohexane

Concen: 0.315 ppbv

RT: 3.871 min Scan# 1169

Delta R.T. 0.019 min

Lab File: VL042966.D

Acq: 22 Sep 2025 20:24

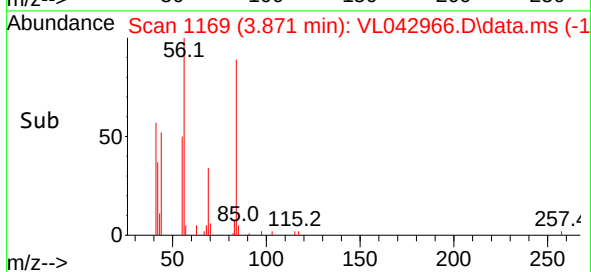
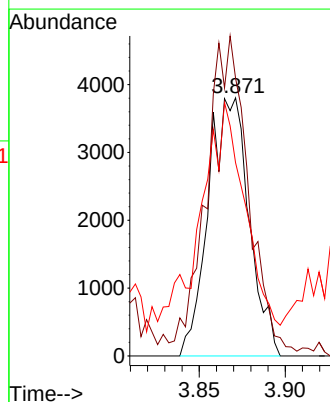
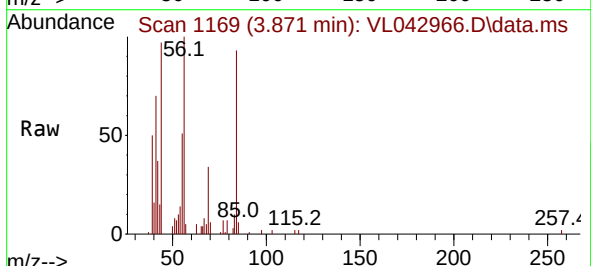
Tgt Ion: 84 Resp: 6268

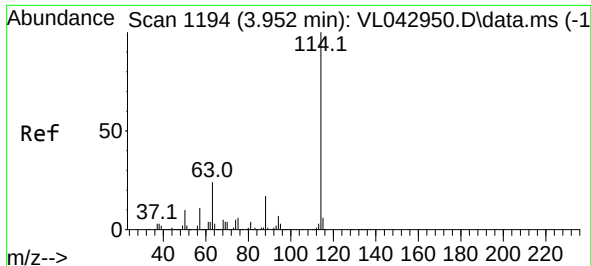
Ion Ratio Lower Upper

84 100

56 129.3 102.2 153.4

41 102.3 65.6 98.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.016 min

Lab File: VL042966.D

Acq: 22 Sep 2025 20:24

Instrument :

MSVOA_L

ClientSampleId :

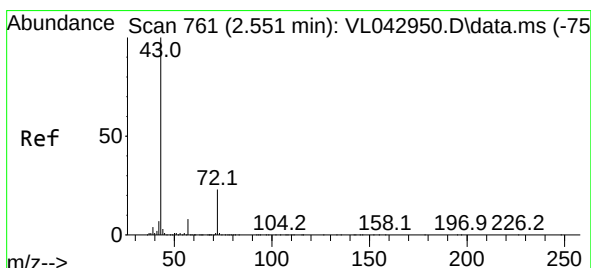
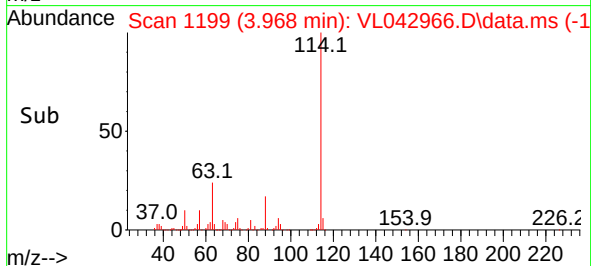
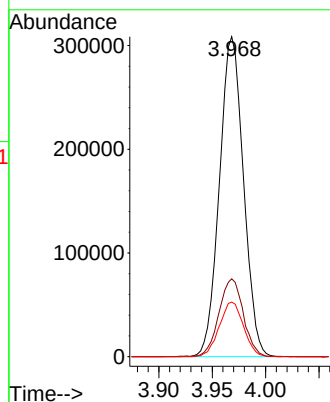
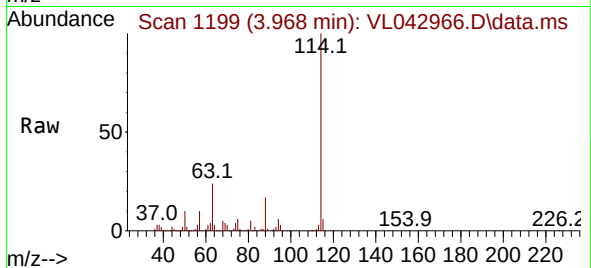
SV3

Tgt Ion:114 Resp: 48357
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.4 29.2
 88 17.2 14.2 21.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025



#34

2-Butanone

Concen: 4.485 ppbv

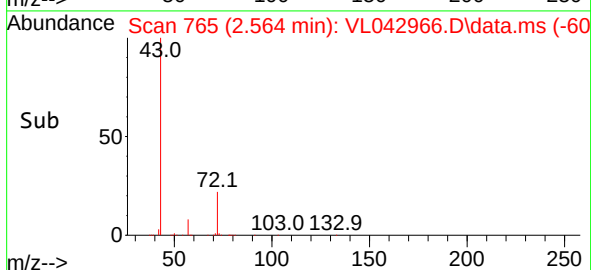
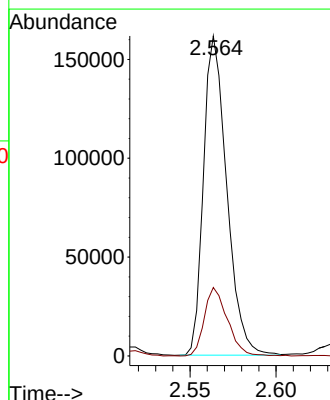
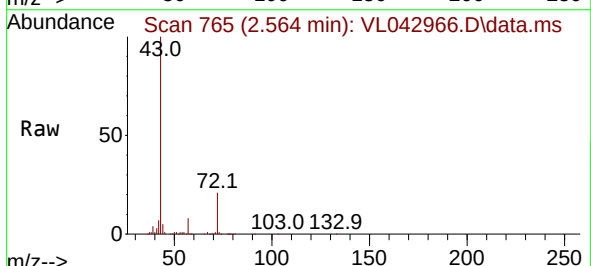
RT: 2.564 min Scan# 765

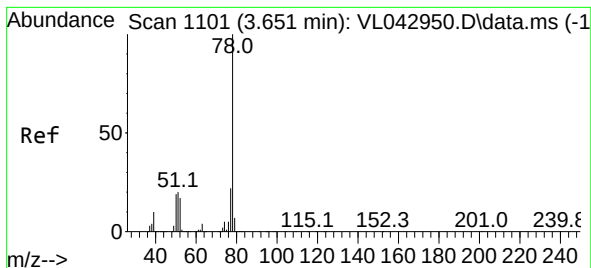
Delta R.T. 0.013 min

Lab File: VL042966.D

Acq: 22 Sep 2025 20:24

Tgt Ion: 43 Resp: 151989
 Ion Ratio Lower Upper
 43 100
 72 21.3 17.7 26.5





#36

Benzene

Concen: 1.258 ppbv

RT: 3.664 min Scan# 1105

Delta R.T. 0.013 min

Lab File: VL042966.D

Acq: 22 Sep 2025 20:24

Instrument :

MSVOA_L

ClientSampleId :

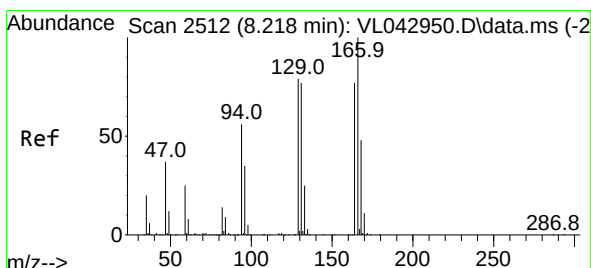
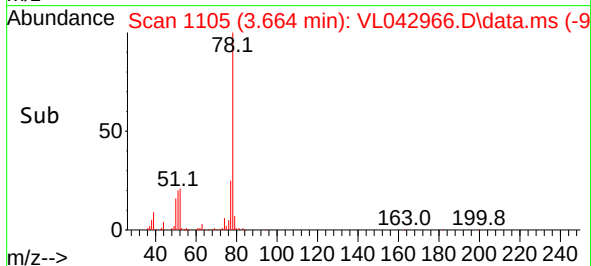
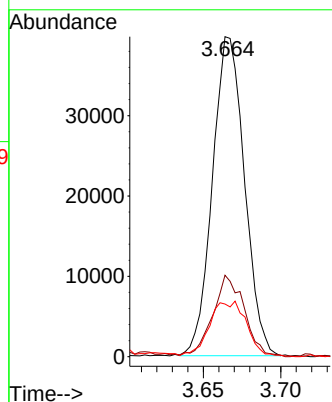
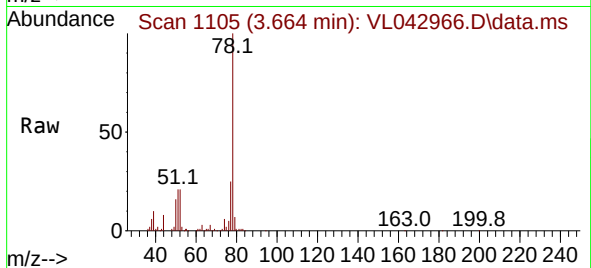
SV3

Tgt Ion: 78	Resp: 5711
Ion Ratio	Lower Upper
78 100	
77 25.0	17.8 26.6
50 16.1	15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#52

Tetrachloroethene

Concen: 0.385 ppbv

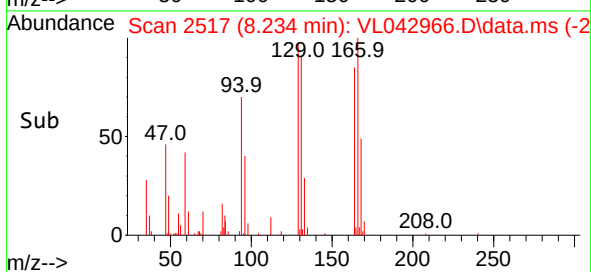
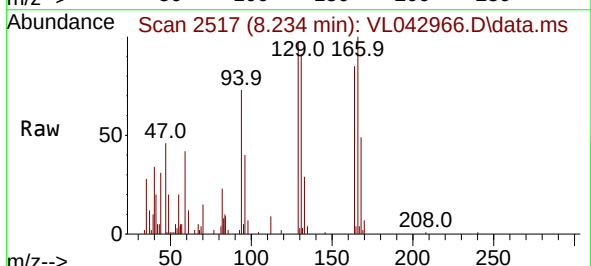
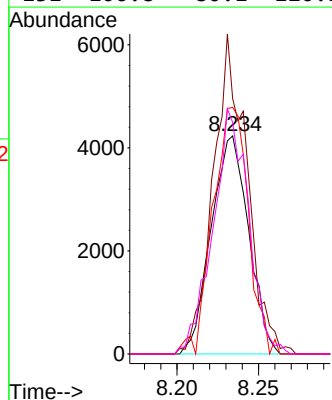
RT: 8.234 min Scan# 2517

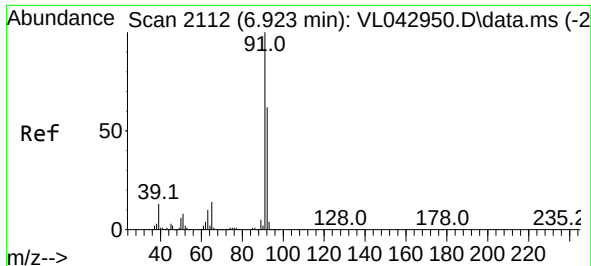
Delta R.T. 0.016 min

Lab File: VL042966.D

Acq: 22 Sep 2025 20:24

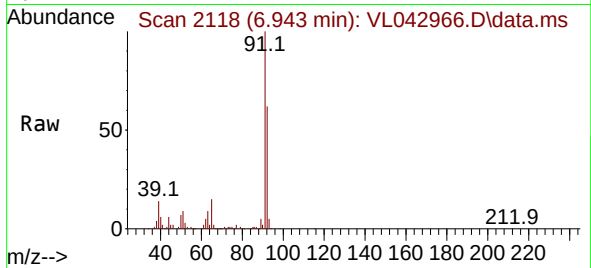
Tgt Ion: 164	Resp: 6759
Ion Ratio	Lower Upper
164 100	
166 114.5	103.5 155.3
129 113.0	82.2 123.4
131 106.8	80.1 120.1





#53
Toluene
Concen: 1.606 ppbv
RT: 6.943 min Scan# 2112
Delta R.T. 0.019 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

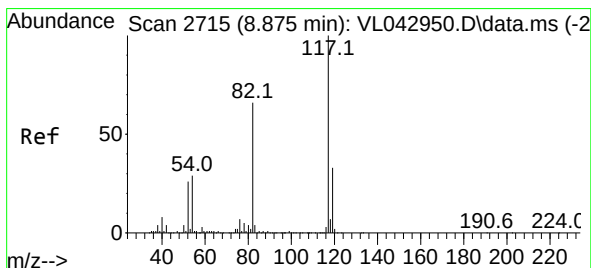
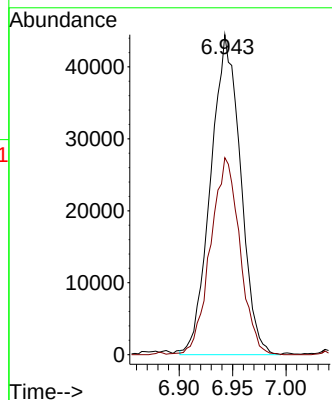
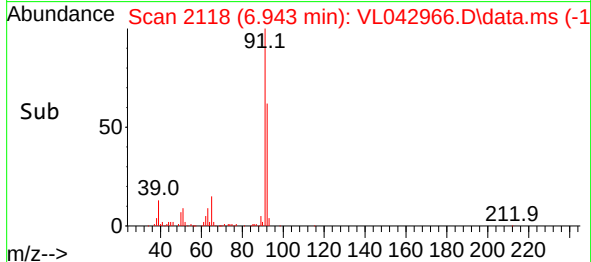
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 91 Resp: 8633
Ion Ratio Lower Upper
91 100
92 60.9 48.2 72.2

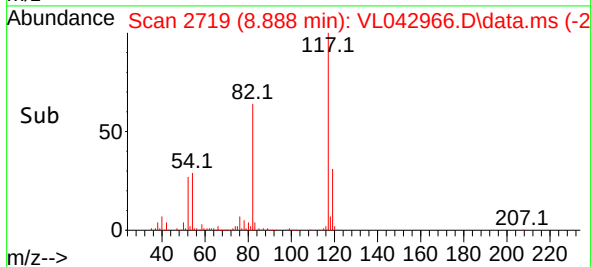
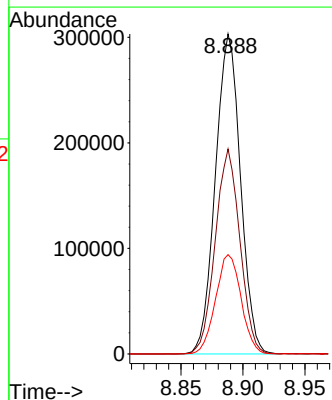
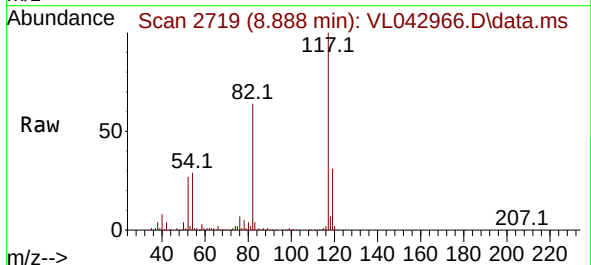
Manual Integrations
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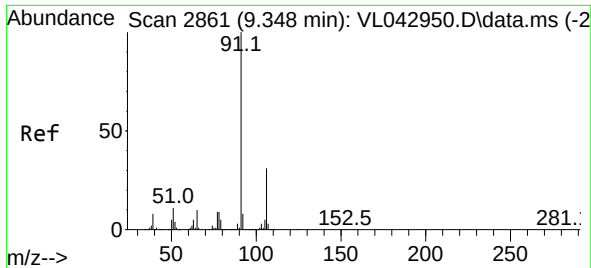
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

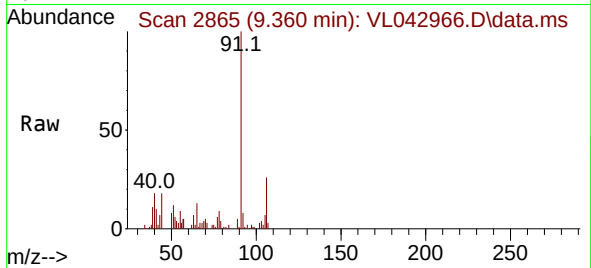
Tgt Ion:117 Resp: 428101
Ion Ratio Lower Upper
117 100
82 63.1 52.8 79.2
119 31.6 26.5 39.7





#58
Ethyl Benzene
Concen: 0.162 ppbv
RT: 9.360 min Scan# 2148
Delta R.T. 0.013 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

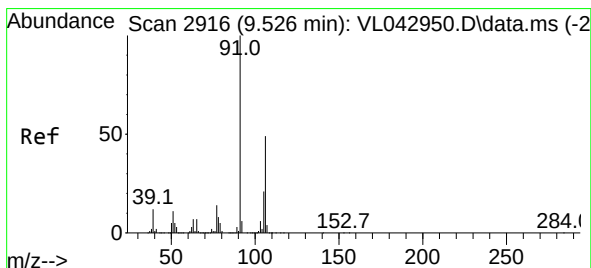
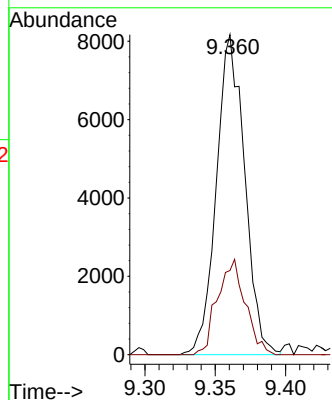
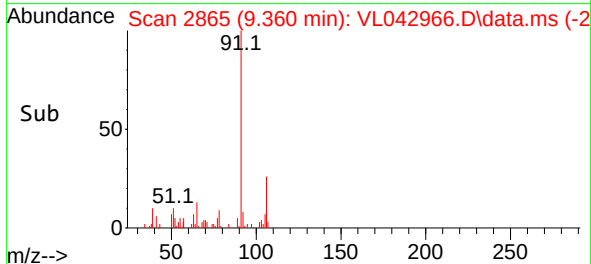
Instrument :
MSVOA_L
ClientSampleId :
SV3



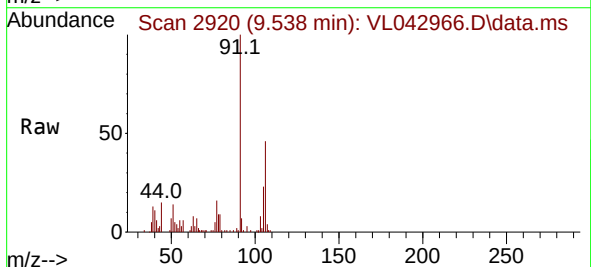
Tgt Ion: 91 Resp: 11418
Ion Ratio Lower Upper
91 100
106 26.3 24.6 37.0

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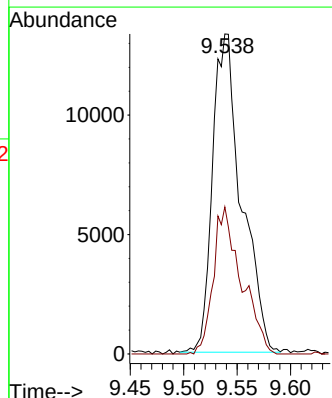
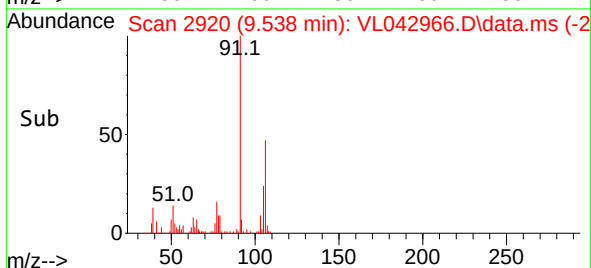
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025

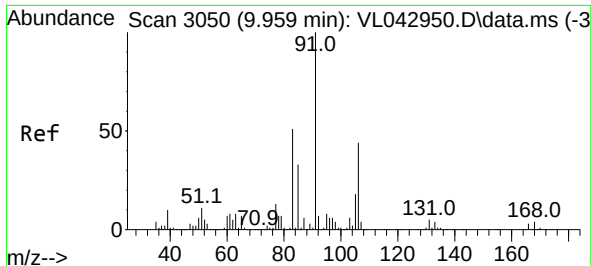


#59
m/p-Xylene
Concen: 0.453 ppbv
RT: 9.538 min Scan# 2920
Delta R.T. 0.013 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24



Tgt Ion: 91 Resp: 25130
Ion Ratio Lower Upper
91 100
106 44.8 0.0 0.0#





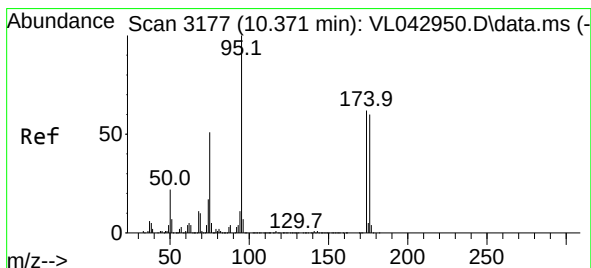
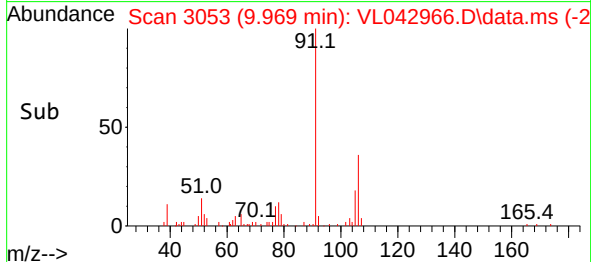
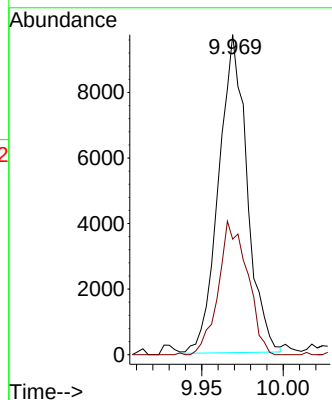
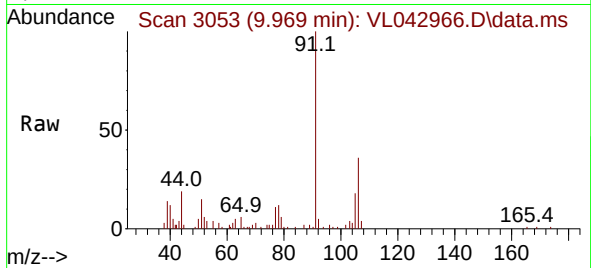
#60
o-Xylene
Concen: 0.212 ppbv
RT: 9.969 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 91 Resp: 11752
Ion Ratio Lower Upper
91 100
106 43.0 22.4 67.0

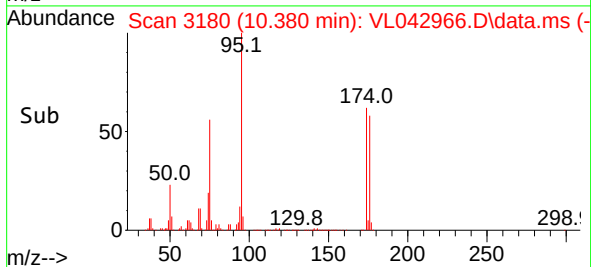
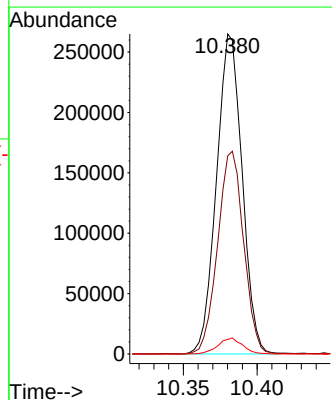
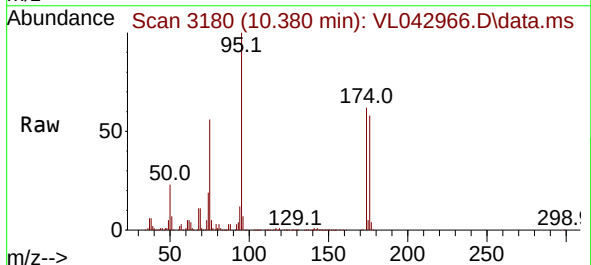
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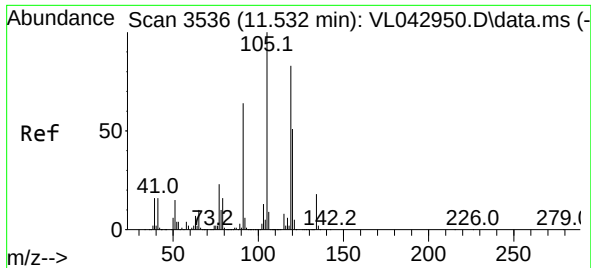
Reviewed By :Semsettin Yesilyurt 09/23/2025
Supervised By :Mahesh Dadoda 09/24/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.029 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.009 min
Lab File: VL042966.D
Acq: 22 Sep 2025 20:24

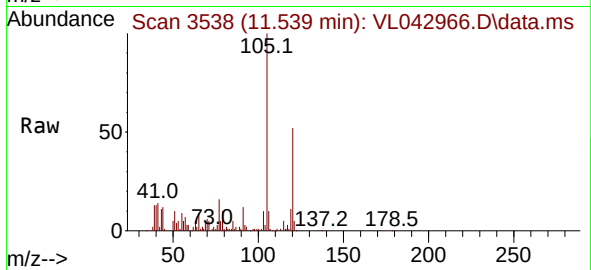
Tgt Ion: 95 Resp: 320479
Ion Ratio Lower Upper
95 100
174 64.2 51.4 77.2
175 4.8 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.247 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.006 min
 Lab File: VL042966.D
 Acq: 22 Sep 2025 20:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



Tgt Ion:	105	Resp:	1537
Ion Ratio	Lower	Upper	
105	100		
120	51.7	40.9	61.3
91	10.9	51.2	76.8
77	15.1	18.4	27.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/23/2025
 Supervised By :Mahesh Dadoda 09/24/2025

