

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043063.D
 Acq On : 08 Oct 2025 14:32
 Operator : SY/MD
 Sample : Q3306-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 01:18:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

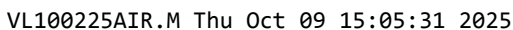
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

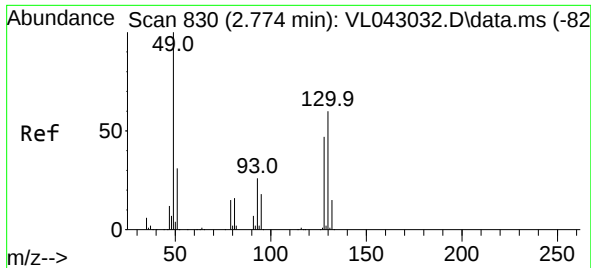
Internal Standards						
1) Bromochloromethane	2.787	49	182962	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.959	114	486916	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.882	117	383740	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	267192	9.665	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	13758	0.446	ppbv	98
3) Chlorodifluoromethane	1.476	51	6108m	0.205	ppbv	
4) Chloromethane	1.535	50	4992	0.443	ppbv	100
9) Propene	1.486	41	6882	0.572	ppbv	94
11) Trichlorofluoromethane	1.878	101	6436m	0.203	ppbv	
13) Ethanol	1.722	45	28304	63.667	ppbv	92
15) Acetone	1.836	43	100511	3.923	ppbv	98
19) Isopropyl Alcohol	1.887	45	18668	1.521	ppbv #	1
20) Methylene Chloride	2.062	84	8621	0.771	ppbv	93
26) Hexane	2.829	57	7215	0.292	ppbv #	43
34) 2-Butanone	2.561	43	4940	0.150	ppbv	93
35) Carbon Tetrachloride	3.761	117	2740	0.068	ppbv #	86
36) Benzene	3.661	78	5492	0.118	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	8787m	0.118	ppbv	
53) Toluene	6.927	91	9070m	0.193	ppbv	
59) m/p-Xylene	9.529	91	5028m	0.100	ppbv	

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

Manual Integrations

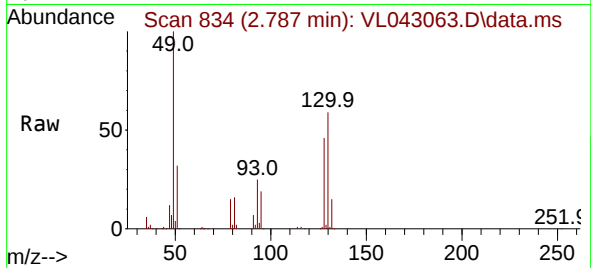
Quant Time: Oct 09 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

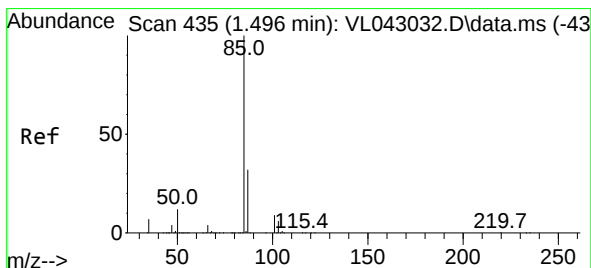
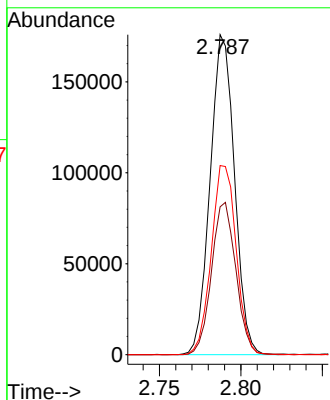
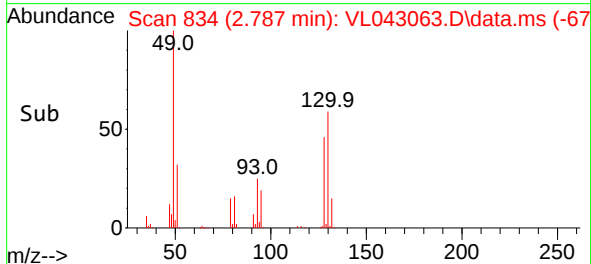
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 182962
Ion Ratio Lower Upper
49 100
128 47.4 24.1 72.2
130 60.5 31.4 94.3

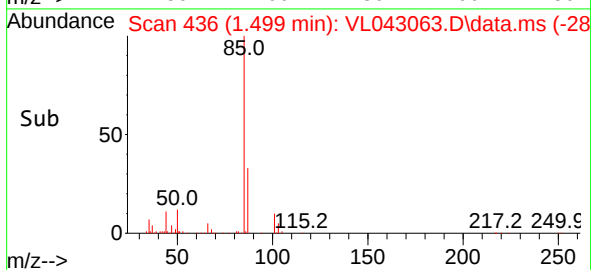
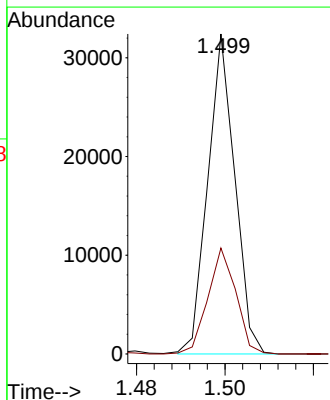
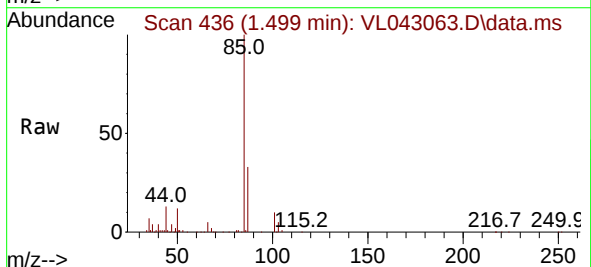
Manual Integrations
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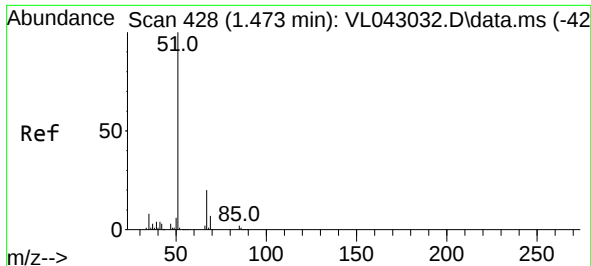
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 0.446 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.004 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion: 85 Resp: 13758
Ion Ratio Lower Upper
85 100
87 33.1 25.8 38.6





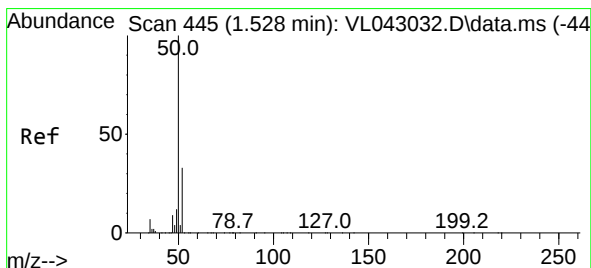
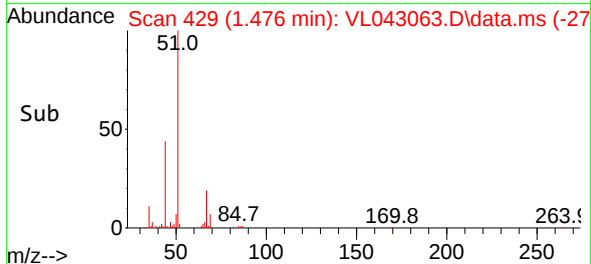
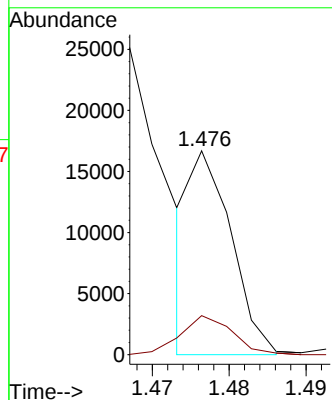
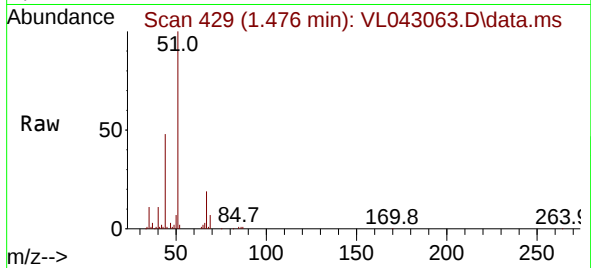
#3
Chlorodifluoromethane
Concen: 0.205 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 6108
Ion Ratio Lower Upper
51 100
67 25.0 15.1 22.75

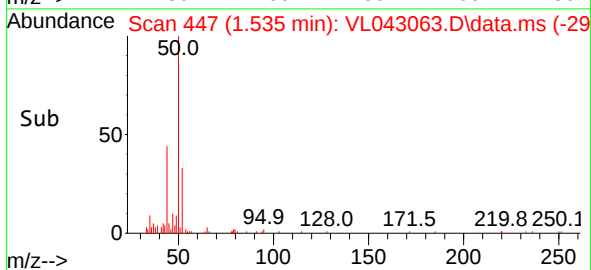
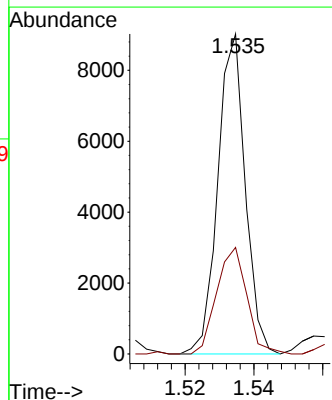
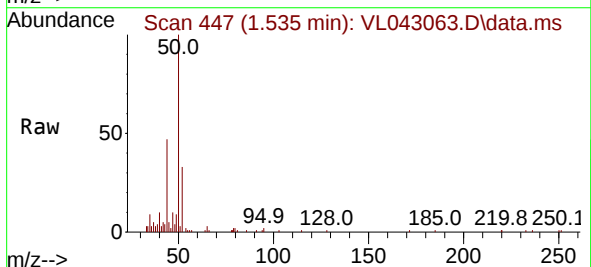
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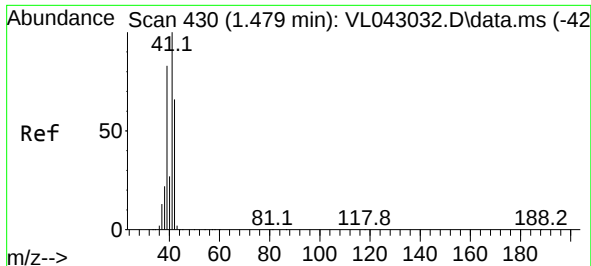
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#4
Chloromethane
Concen: 0.443 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.007 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion: 50 Resp: 4992
Ion Ratio Lower Upper
50 100
52 32.5 26.2 39.2





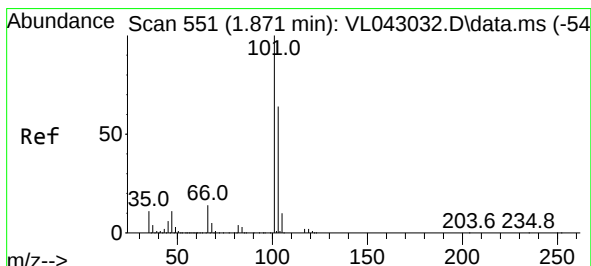
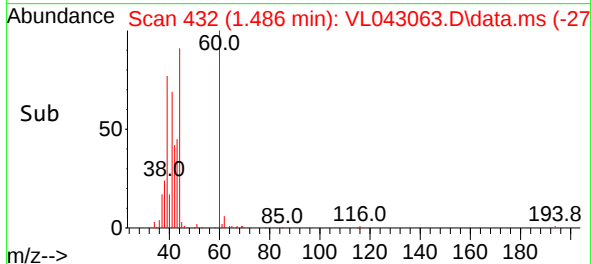
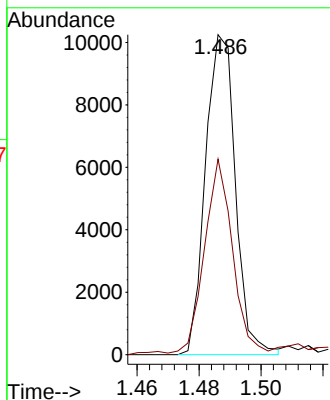
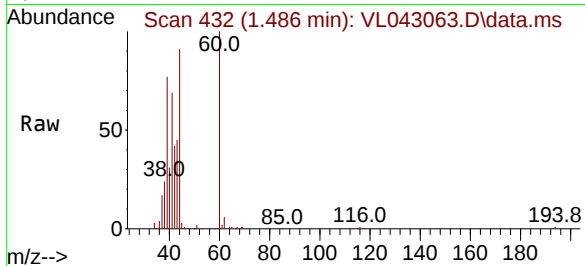
#9
Propene
Concen: 0.572 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 41 Resp: 688
Ion Ratio Lower Upper
41 100
42 61.8 53.3 79.9

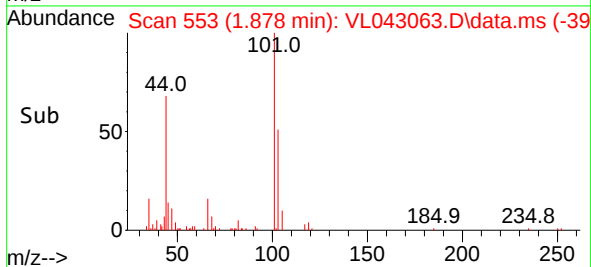
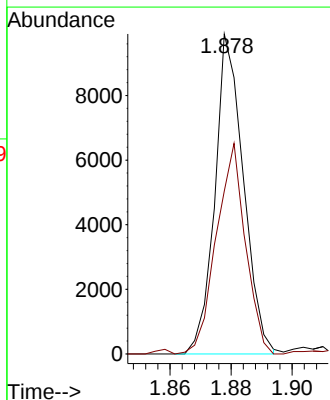
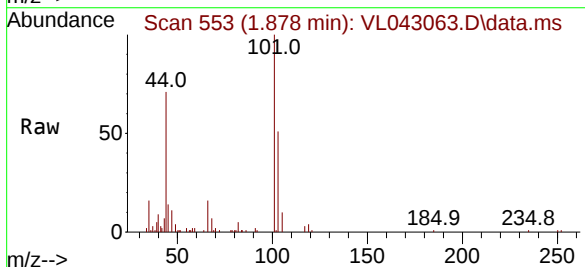
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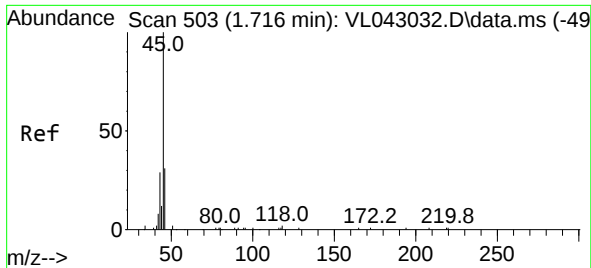
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#11
Trichlorofluoromethane
Concen: 0.203 ppbv m
RT: 1.878 min Scan# 553
Delta R.T. 0.007 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion:101 Resp: 6436
Ion Ratio Lower Upper
101 100
103 50.9 51.1 76.7#





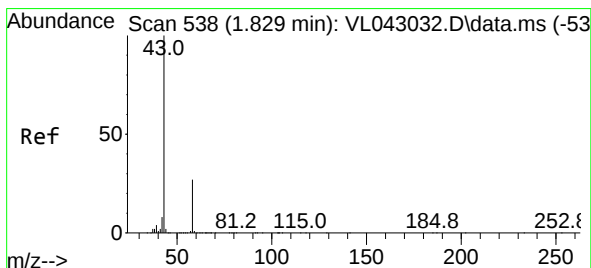
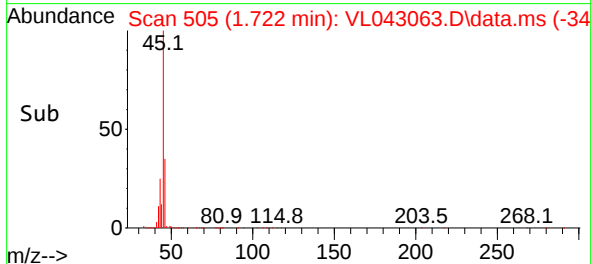
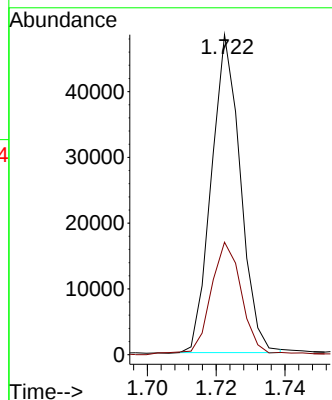
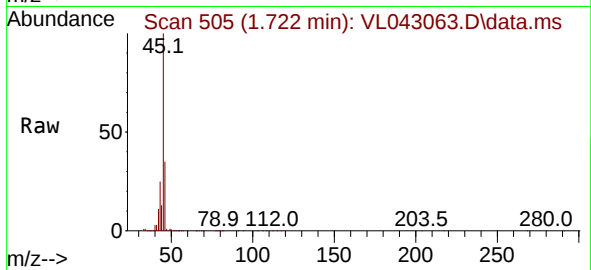
#13
Ethanol
Concen: 63.667 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 28304
Ion Ratio Lower Upper
45 100
46 39.5 17.8 71.4

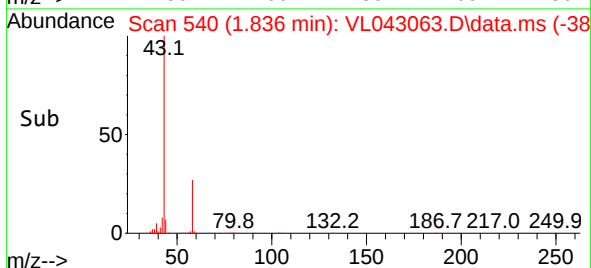
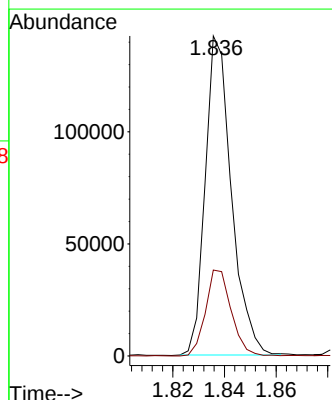
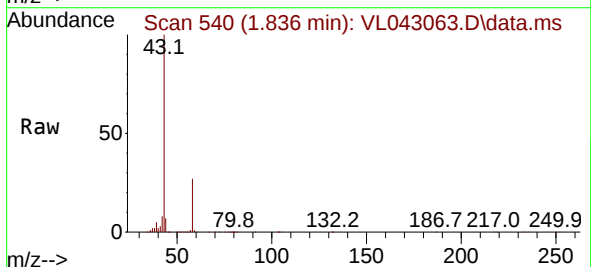
Manual Integrations
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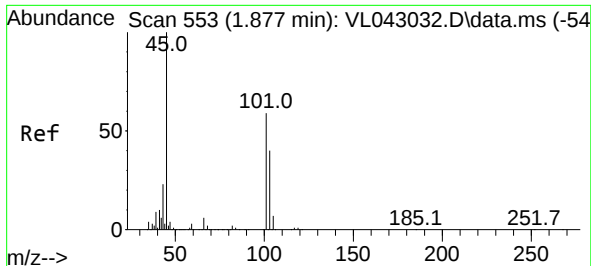
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#15
Acetone
Concen: 3.923 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.007 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion: 43 Resp: 100511
Ion Ratio Lower Upper
43 100
58 26.6 22.2 33.4





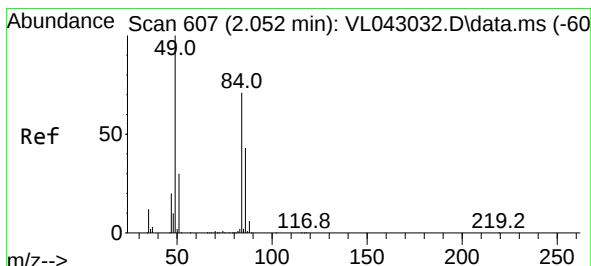
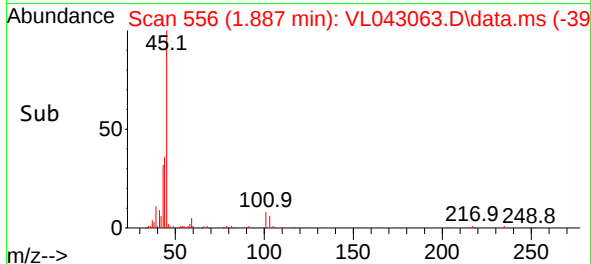
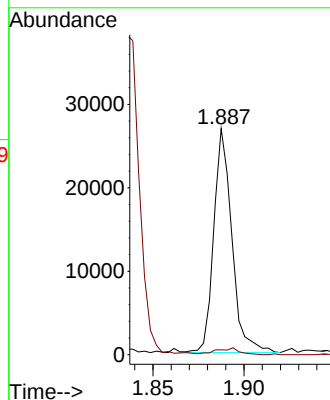
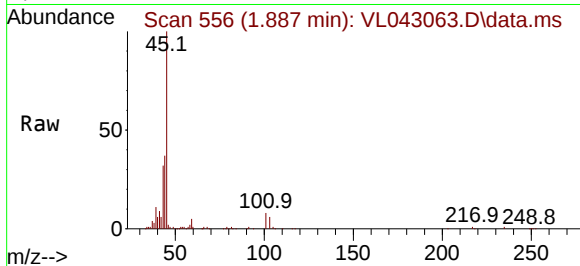
#19
Isopropyl Alcohol
Concen: 1.521 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.010 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 1866
Ion Ratio Lower Upper
45 100
58 143.3 42.3 63.5

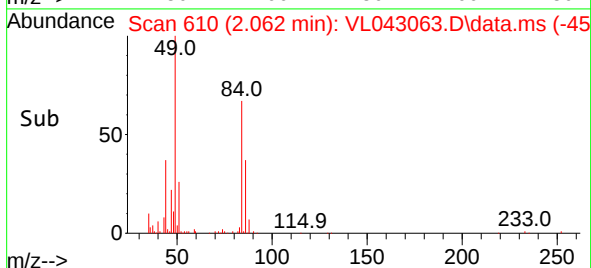
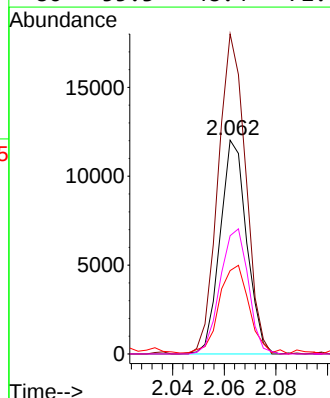
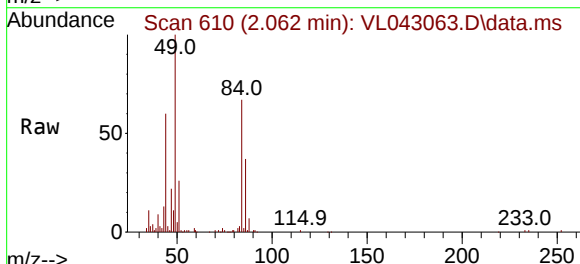
Manual Integrations
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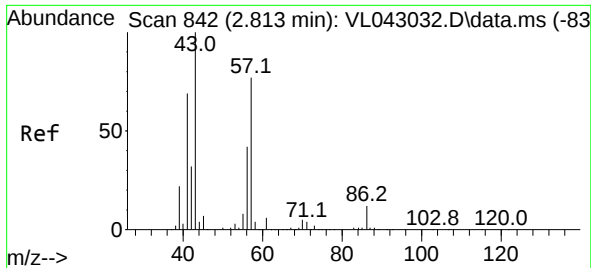
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#20
Methylene Chloride
Concen: 0.771 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion: 84 Resp: 8621
Ion Ratio Lower Upper
84 100
49 149.7 112.5 168.7
51 38.6 34.2 51.2
86 55.3 48.4 72.6





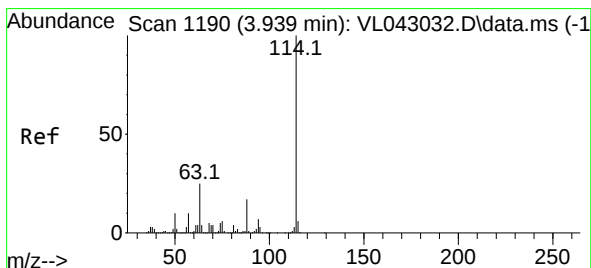
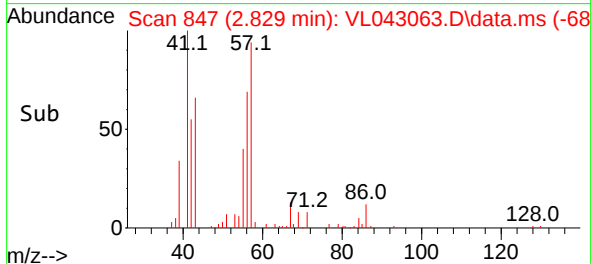
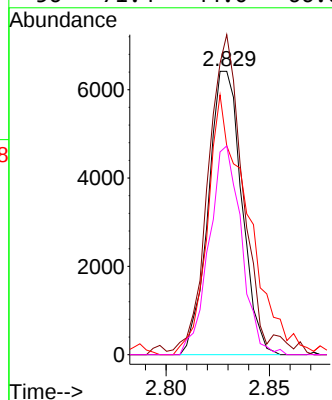
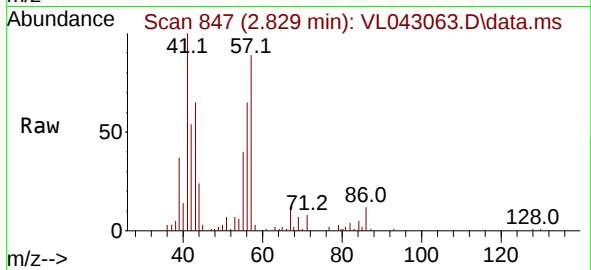
#26
Hexane
Concen: 0.292 ppbv
RT: 2.829 min Scan# 842
Delta R.T. 0.016 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 57 Resp: 7215
Ion Ratio Lower Upper
57 100
41 120.7 76.1 114.1
43 117.2 201.4 302.0
56 71.4 44.0 66.0

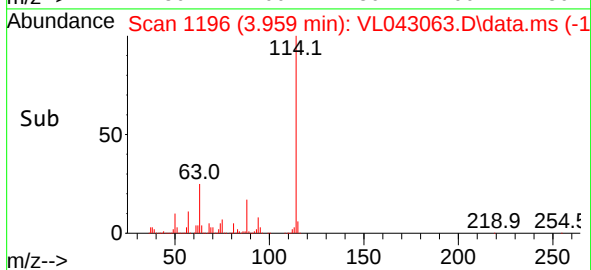
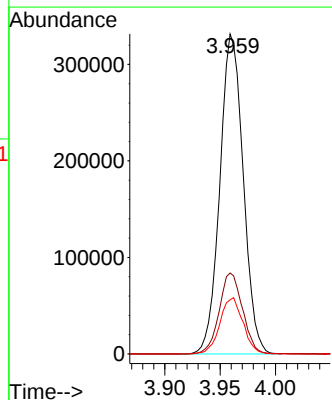
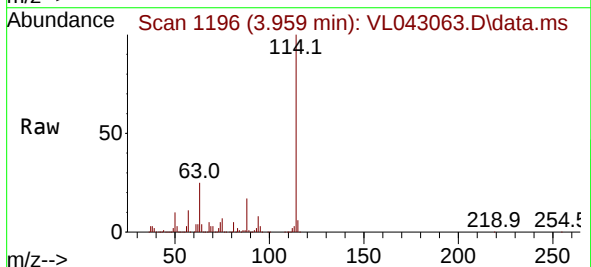
Manual Integrations
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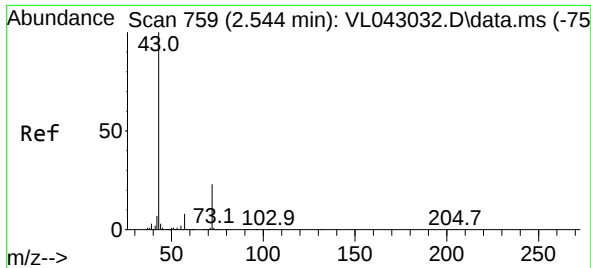
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.020 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion:114 Resp: 486916
Ion Ratio Lower Upper
114 100
63 25.4 19.4 29.2
88 17.4 13.9 20.9





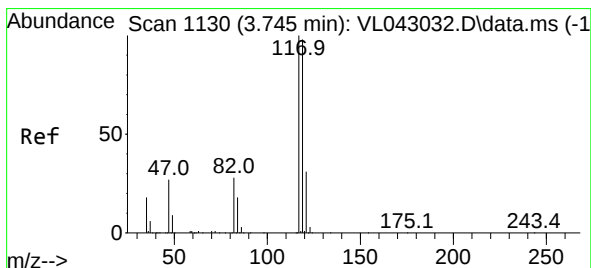
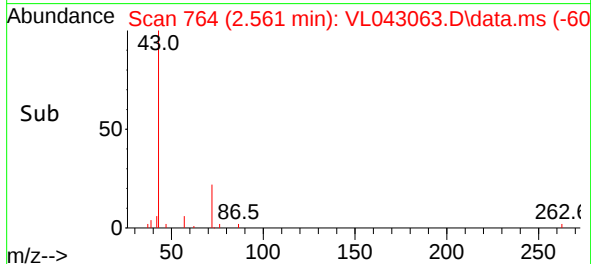
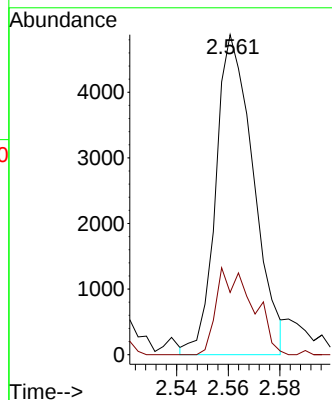
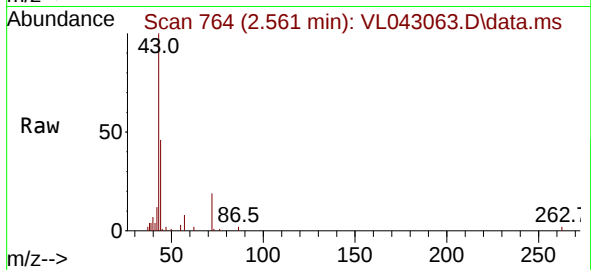
#34
2-Butanone
Concen: 0.150 ppbv
RT: 2.561 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 4940
Ion Ratio Lower Upper
43 100
72 26.5 18.4 27.6

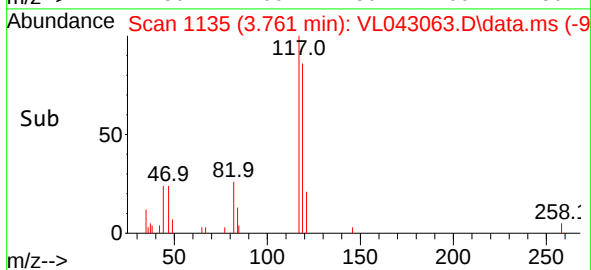
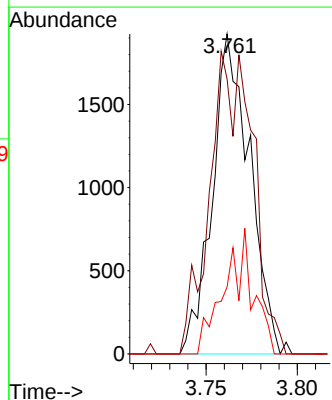
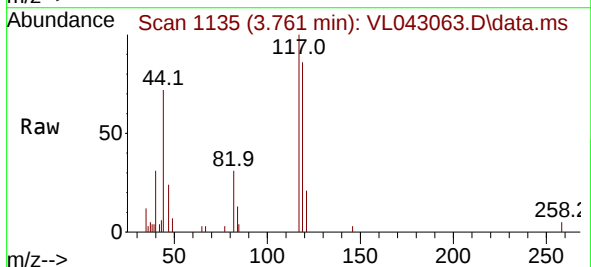
Manual Integrations
APPROVED

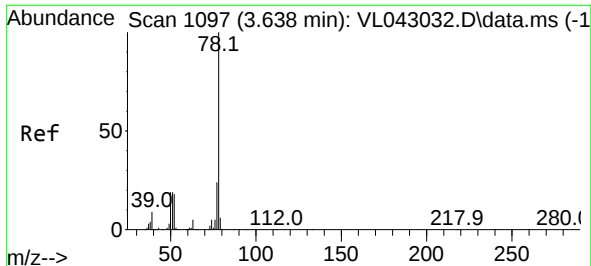
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#35
Carbon Tetrachloride
Concen: 0.068 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.016 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

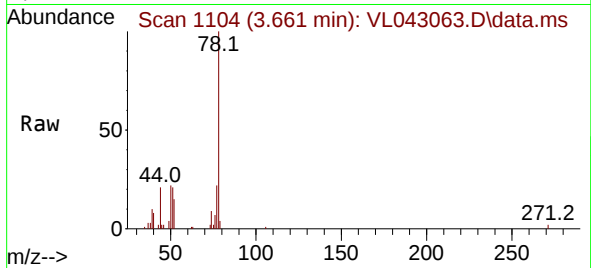
Tgt Ion:117 Resp: 2740
Ion Ratio Lower Upper
117 100
119 86.0 78.2 117.4
121 20.9 24.8 37.2#





#36
Benzene
Concen: 0.118 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.023 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

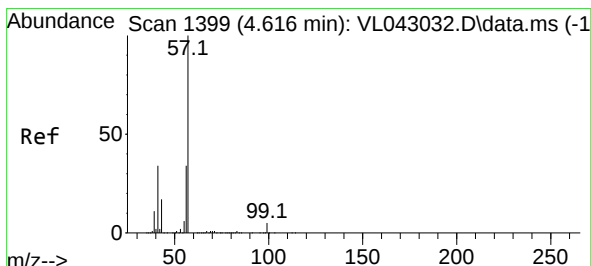
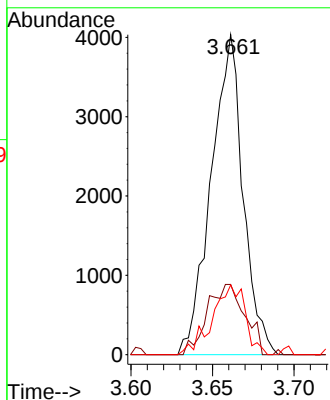
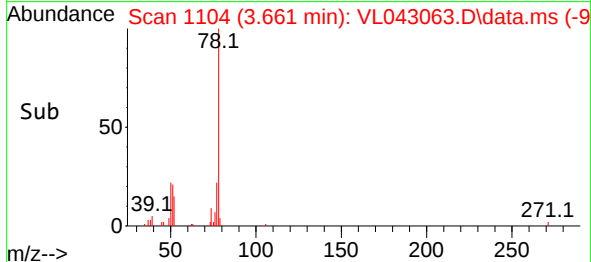
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 78 Resp: 5492
Ion Ratio Lower Upper
78 100
77 21.9 19.2 28.8
50 21.8 14.9 22.3

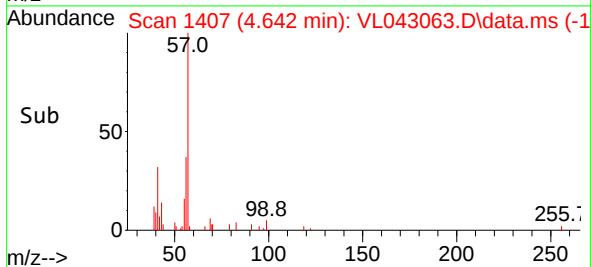
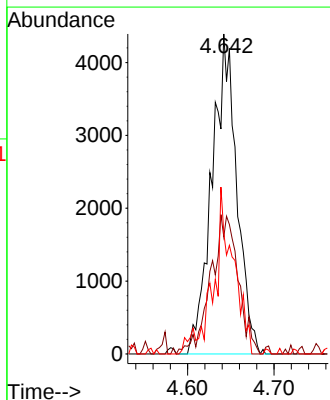
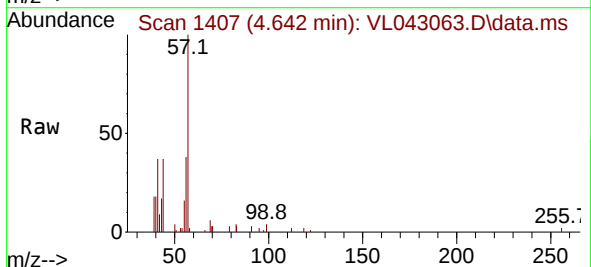
Manual Integrations
APPROVED

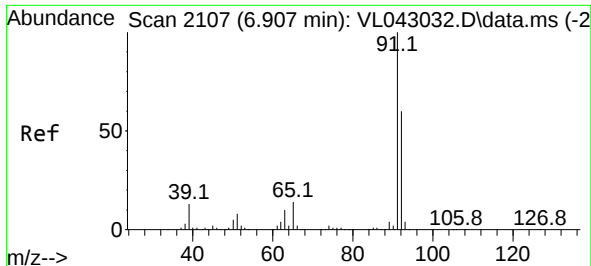
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#44
2,2,4-Trimethylpentane
Concen: 0.118 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.026 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

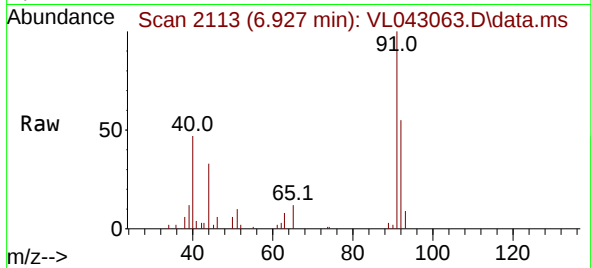
Tgt Ion: 57 Resp: 8787
Ion Ratio Lower Upper
57 100
41 48.1 27.0 40.4#
56 42.1 26.0 39.0#





#53
Toluene
Concen: 0.193 ppbv m
RT: 6.927 min Scan# 2107
Delta R.T. 0.020 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

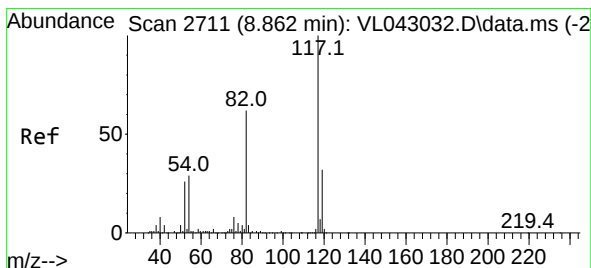
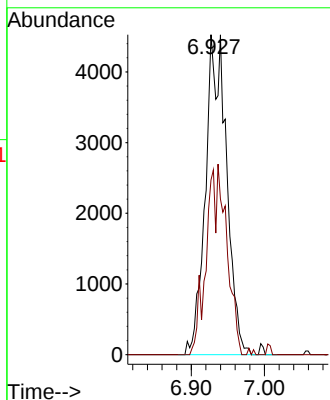
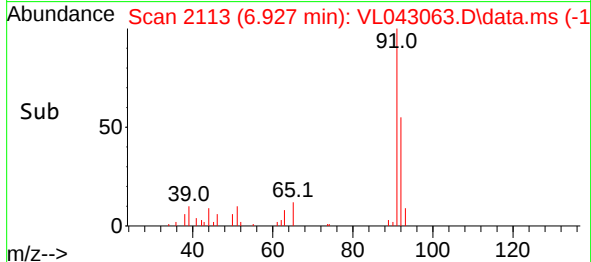
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 91 Resp: 9070
Ion Ratio Lower Upper
91 100
92 57.8 47.8 71.6

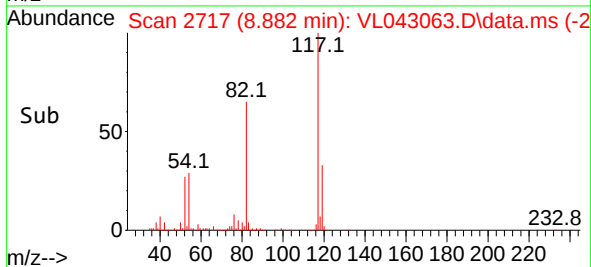
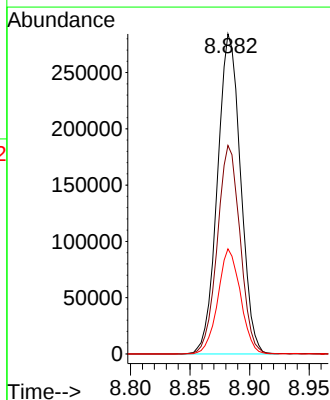
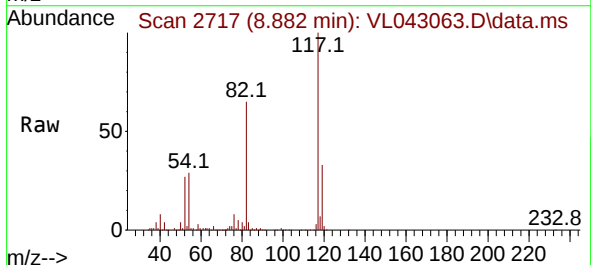
Manual Integrations
APPROVED

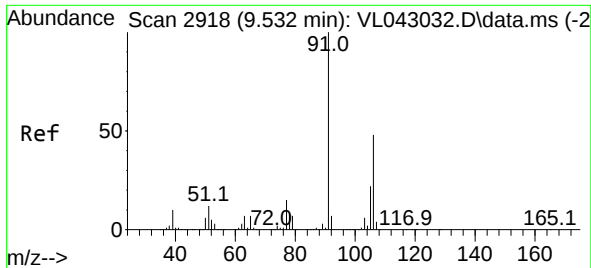
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.020 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion:117 Resp: 383740
Ion Ratio Lower Upper
117 100
82 64.2 53.0 79.6
119 32.0 25.4 38.2





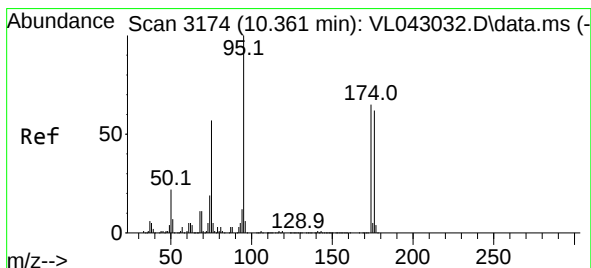
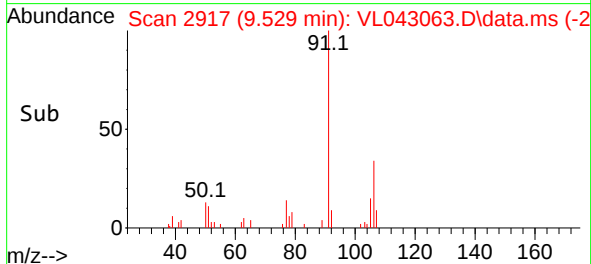
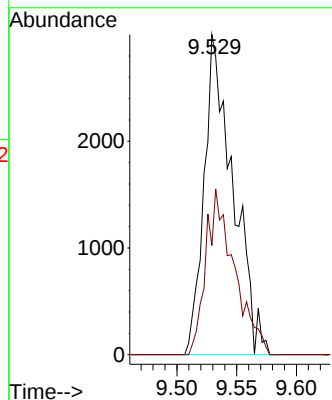
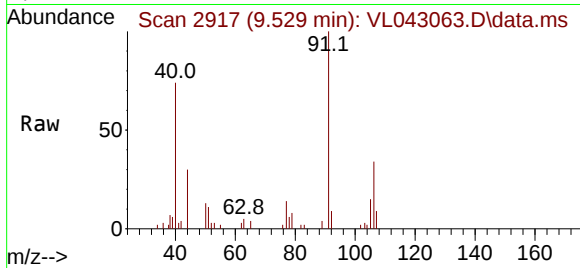
#59
m/p-Xylene
Concen: 0.100 ppbv m
RT: 9.529 min Scan# 2918
Delta R.T. -0.003 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 5028
Ion Ratio Lower Upper
91 100
106 0.0 37.5 56.3

Manual Integrations
APPROVED

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



#68
1-Bromo-4-Fluorobenzene
Concen: 9.665 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.016 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion: 95 Resp: 267192
Ion Ratio Lower Upper
95 100
174 65.6 52.3 78.5
175 4.6 3.8 5.8

