

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041988.D
 Acq On : 10 Feb 2025 15:10
 Operator : SY/MD
 Sample : Q1303-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:24:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	145198	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	417155	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	374032	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	272910	9.264	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.600%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.463	51	4694	0.227	ppbv #	62
9) Propene	1.483	41	1269	0.149	ppbv #	82
10) Heptane	4.969	43	10389m	0.455	ppbv	
13) Ethanol	1.719	45	4123	6.595	ppbv #	31
15) Acetone	1.832	43	44172	2.533	ppbv	99
19) Isopropyl Alcohol	1.884	45	8564	0.828	ppbv #	1
20) Methylene Chloride	2.059	84	1053	0.153	ppbv #	71
26) Hexane	2.819	57	42250	2.272	ppbv #	36
34) 2-Butanone	2.557	43	18559	0.700	ppbv	93
41) Tetrahydrofuran	3.059	42	10695	0.742	ppbv	98
51) 2-Hexanone	7.435	43	62540m	2.247	ppbv	
52) Tetrachloroethene	8.212	164	1923m	0.145	ppbv	
53) Toluene	6.927	91	39223m	0.941	ppbv	
58) Ethyl Benzene	9.348	91	37277	0.638	ppbv #	89
59) m/p-Xylene	9.522	91	76654	1.636	ppbv	94
60) o-Xylene	9.956	91	40627	0.874	ppbv	100
62) Isopropylbenzene	10.532	105	24729	0.344	ppbv	99
64) n-propylbenzene	10.985	120	11898	0.654	ppbv	80
65) tert-Butylbenzene	11.529	119	12430	0.190	ppbv #	64
67) sec-Butylbenzene	11.762	105	30303m	0.336	ppbv	
69) p-Isopropyltoluene	11.921	119	13423	0.181	ppbv	95
70) n-Butylbenzene	12.274	91	12843	0.174	ppbv #	70
73) 1,3,5-Trimethylbenzene	11.199	105	40544	0.825	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	99391	1.868	ppbv #	55

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

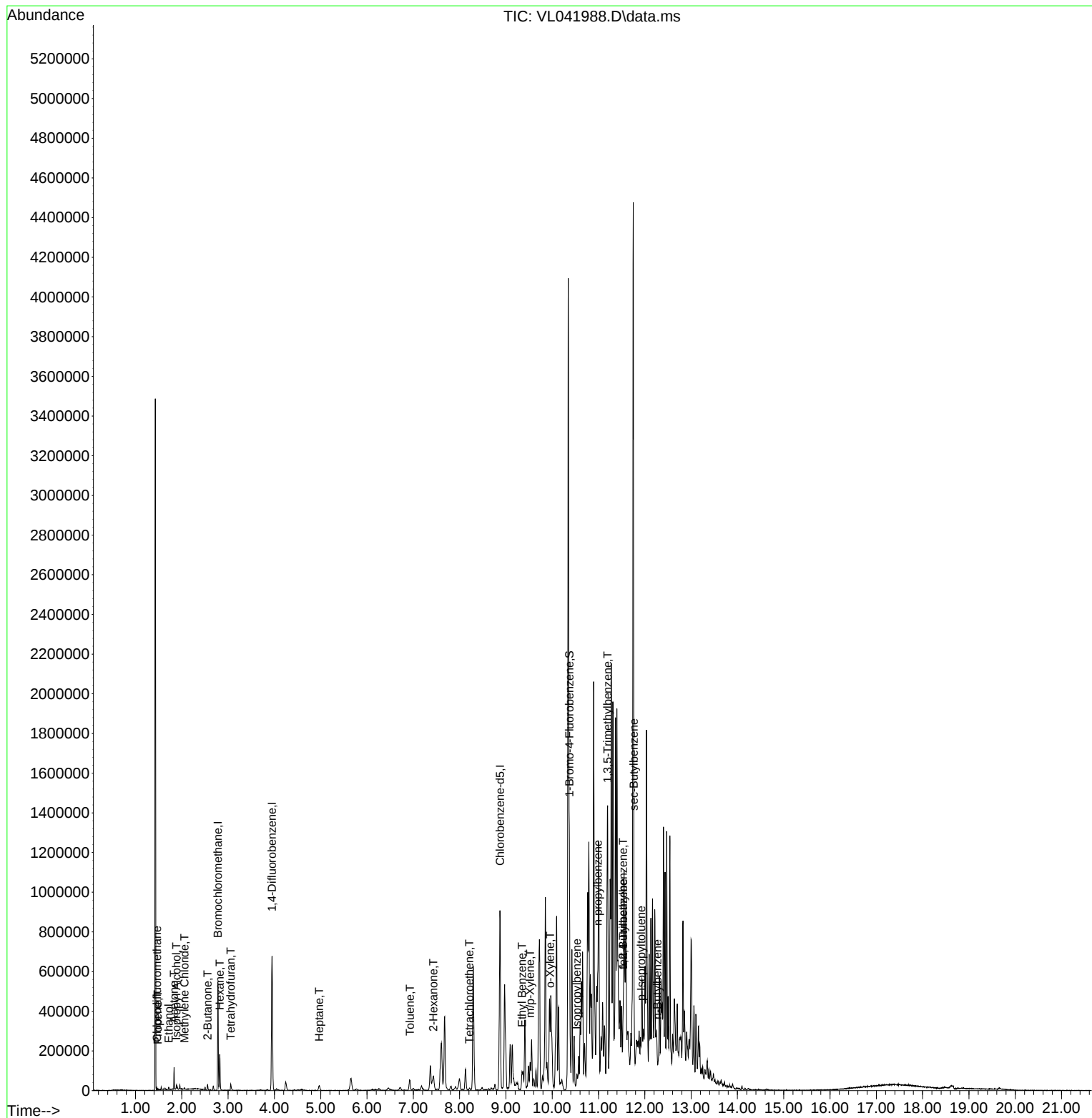
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041988.D
Acq On : 10 Feb 2025 15:10
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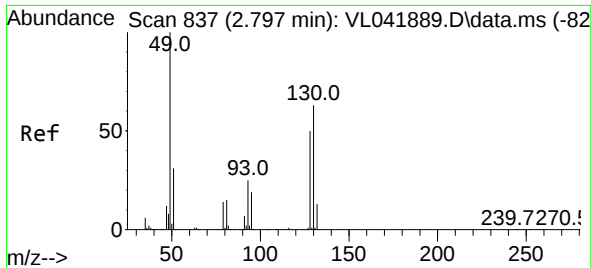
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 02/11/2025
Supervised By : Mahesh Dadoda 02/11/2025

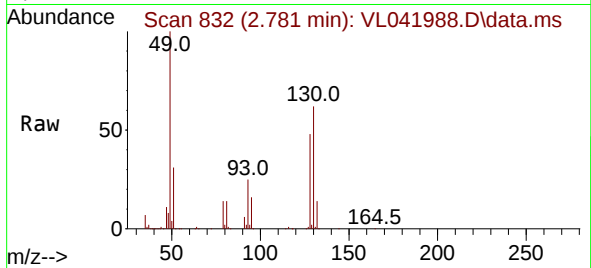
Quant Time: Feb 11 01:24:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.016 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

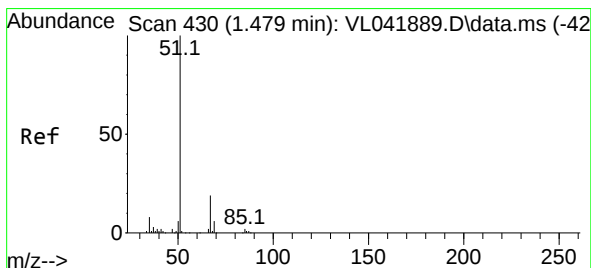
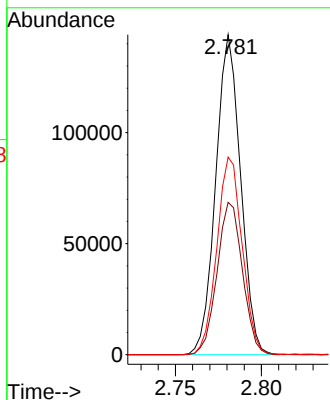
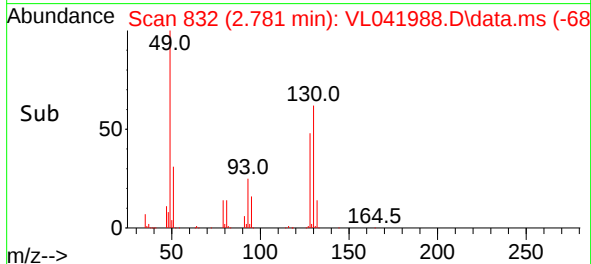
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 49 Resp: 145198
Ion Ratio Lower Upper
49 100
128 48.6 24.3 73.0
130 62.9 31.1 93.2

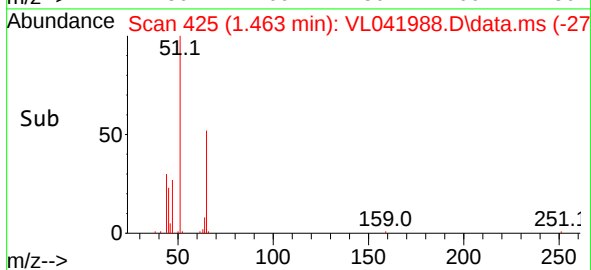
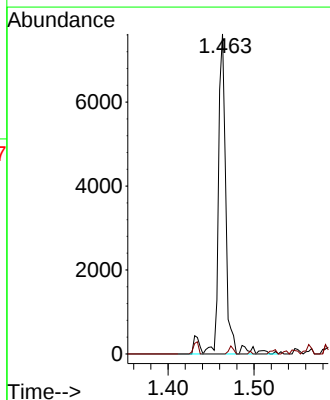
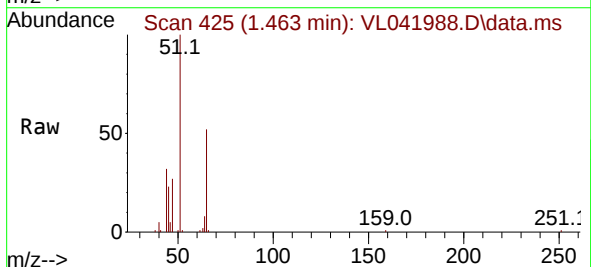
Manual Integrations
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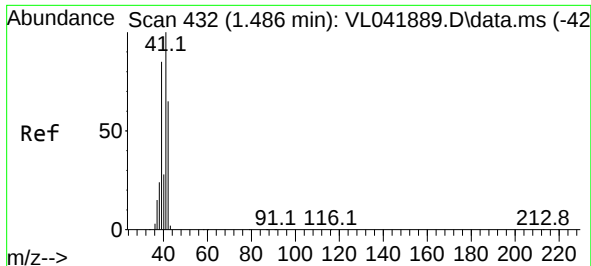
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#3
Chlorodifluoromethane
Concen: 0.227 ppbv
RT: 1.463 min Scan# 425
Delta R.T. -0.016 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

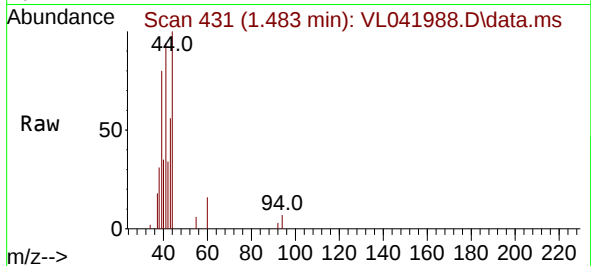
Tgt Ion: 51 Resp: 4694
Ion Ratio Lower Upper
51 100
67 1.5 15.0 22.4#





#9
 Propene
 Concen: 0.149 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041988.D
 Acq: 10 Feb 2025 15:10

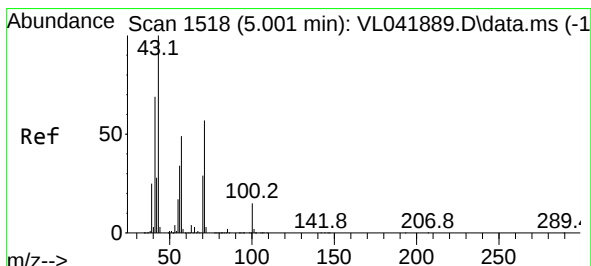
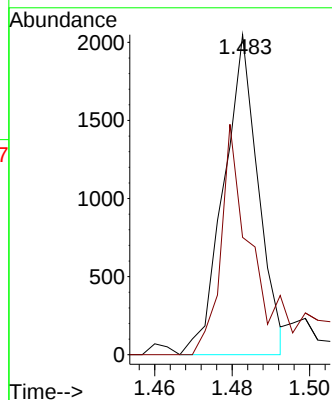
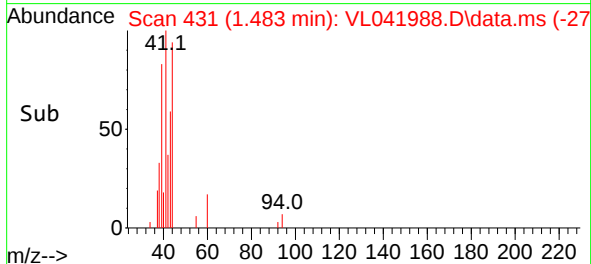
Instrument :
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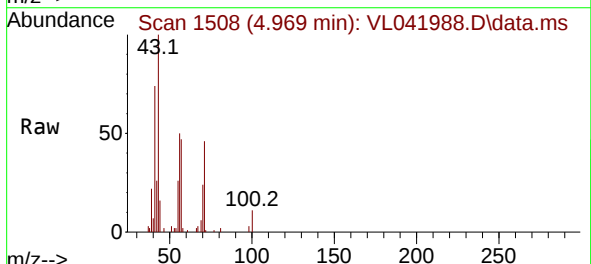
Tgt Ion: 41 Resp: 1269
 Ion Ratio Lower Upper
 41 100
 42 79.5 52.0 78.0

Manual Integrations
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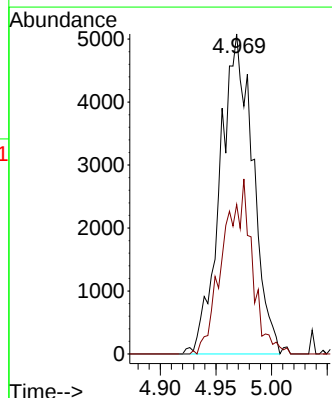
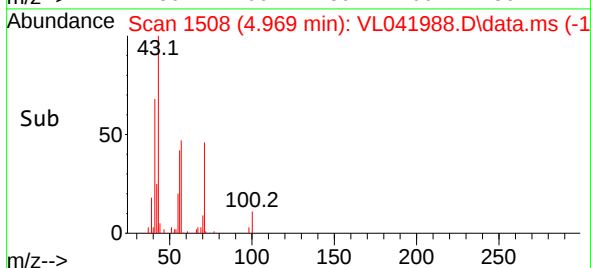
Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

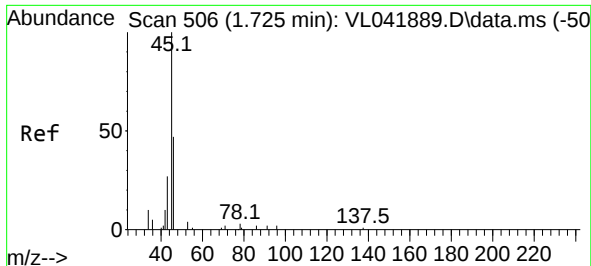


#10
 Heptane
 Concen: 0.455 ppbv m
 RT: 4.969 min Scan# 1508
 Delta R.T. -0.032 min
 Lab File: VL041988.D
 Acq: 10 Feb 2025 15:10



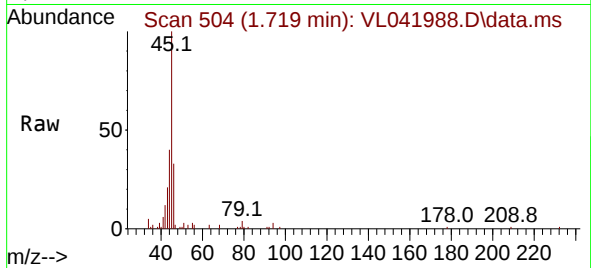
Tgt Ion: 43 Resp: 10389
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.0 61.4





#13
Ethanol
Concen: 6.595 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

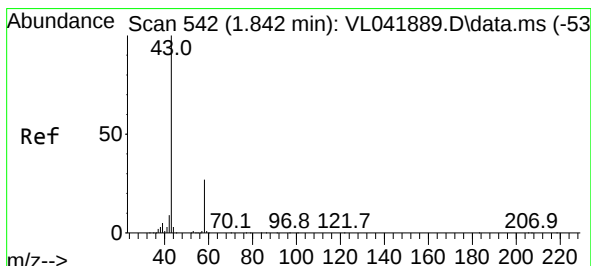
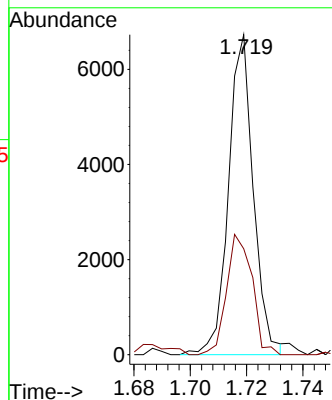
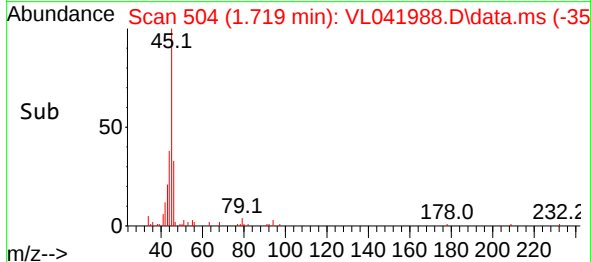
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 45 Resp: 412
Ion Ratio Lower Upper
45 100
46 0.0 18.1 72.5

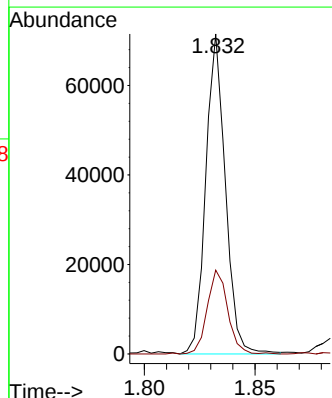
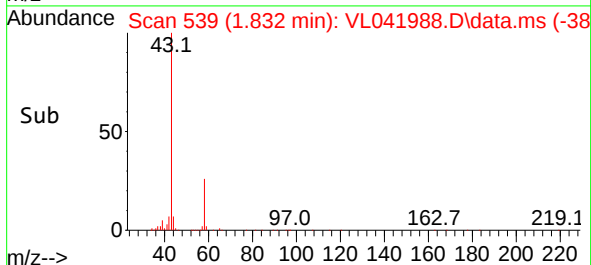
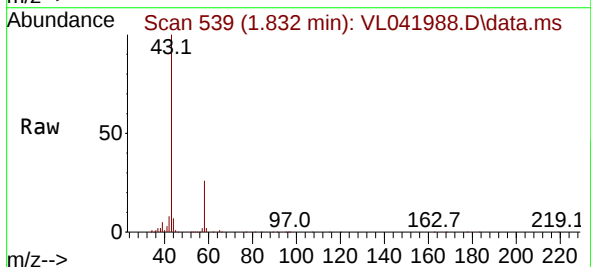
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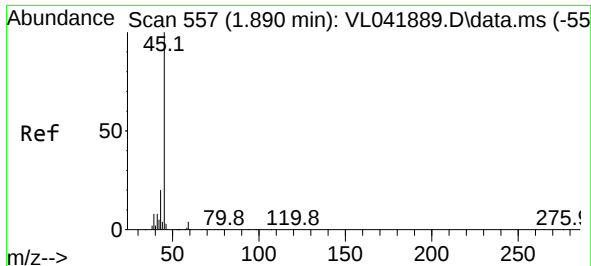
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#15
Acetone
Concen: 2.533 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.010 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Tgt Ion: 43 Resp: 44172
Ion Ratio Lower Upper
43 100
58 27.7 21.9 32.9





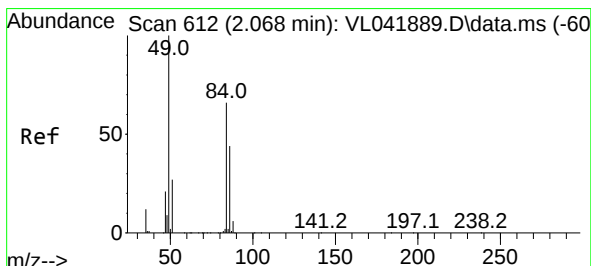
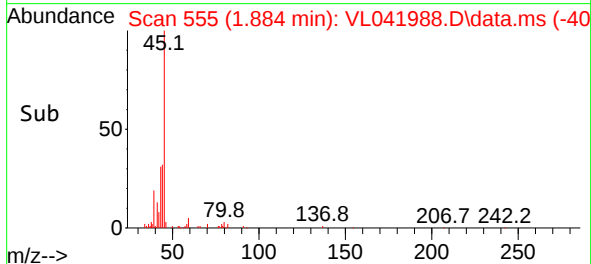
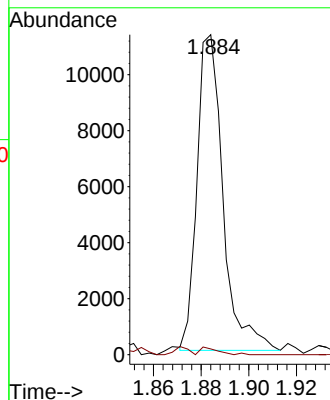
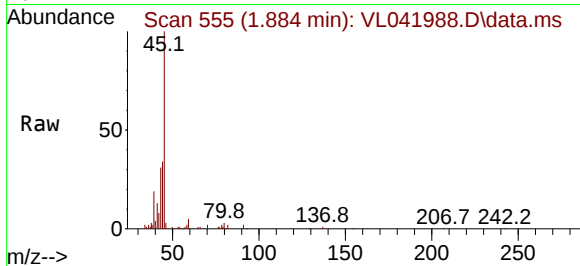
#19
Isopropyl Alcohol
Concen: 0.828 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 45 Resp: 8564
Ion Ratio Lower Upper
45 100
58 142.9 35.0 52.6

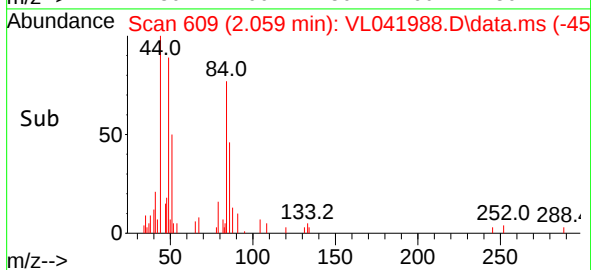
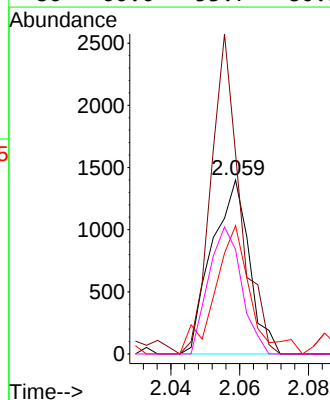
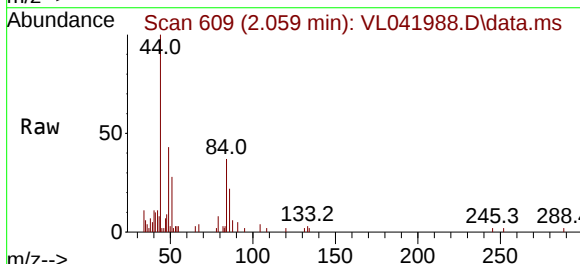
Manual Integrations
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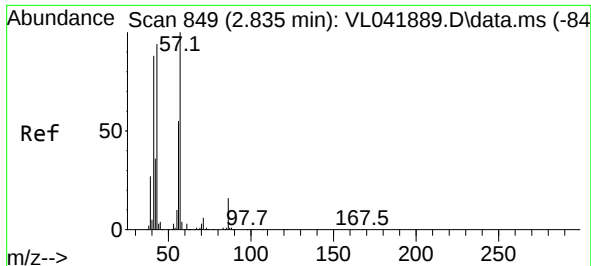
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 0.153 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

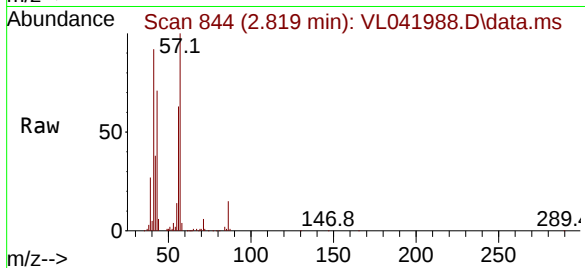
Tgt Ion: 84 Resp: 1053
Ion Ratio Lower Upper
84 100
49 115.2 123.1 184.7#
51 80.3 35.8 53.8#
86 60.0 53.7 80.5





#26
Hexane
Concen: 2.272 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.016 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

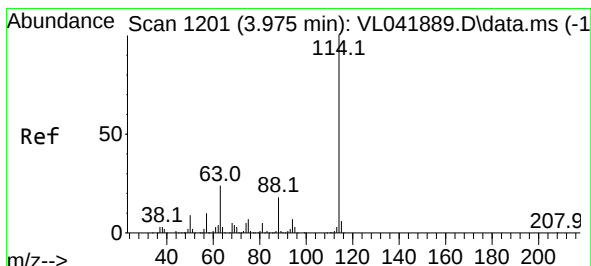
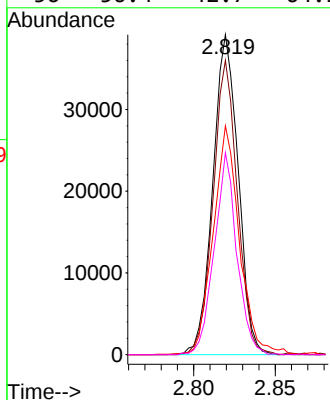
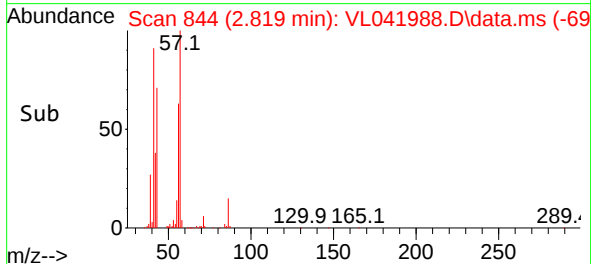
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



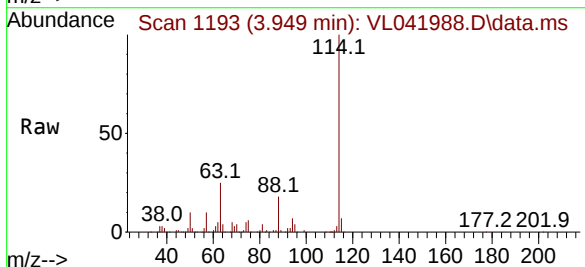
Tgt Ion: 57 Resp: 42250
Ion Ratio Lower Upper
57 100
41 88.8 73.8 110.8
43 75.2 197.3 295.9
56 56.4 42.7 64.1

Manual Integrations
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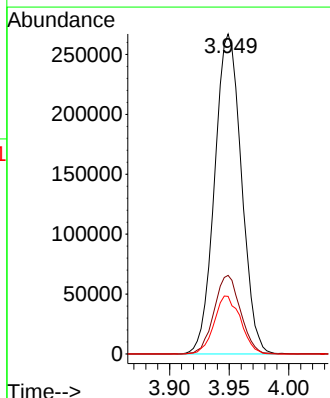
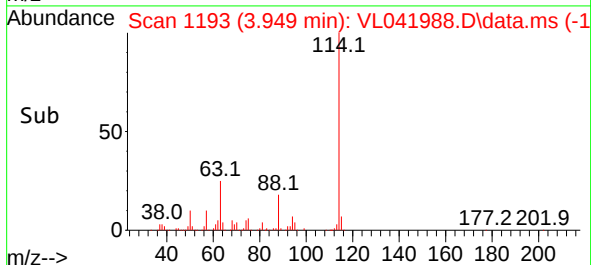
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

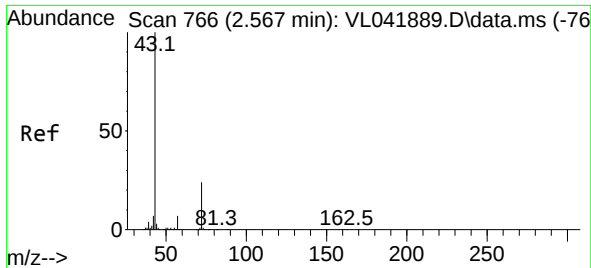


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.026 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10



Tgt Ion:114 Resp: 417155
Ion Ratio Lower Upper
114 100
63 24.2 19.8 29.6
88 17.9 14.4 21.6





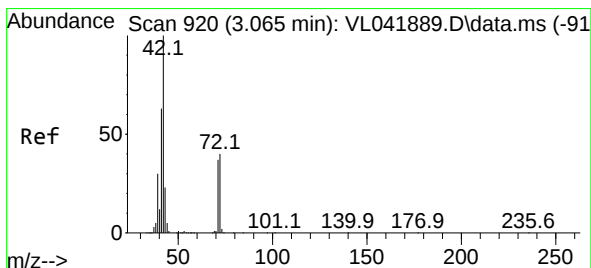
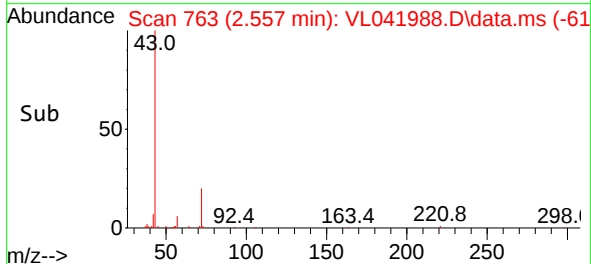
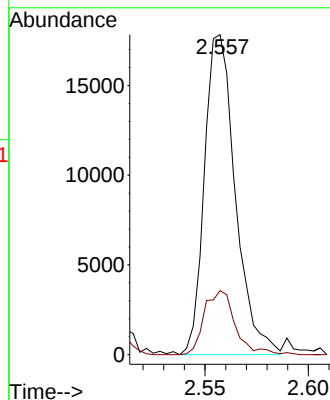
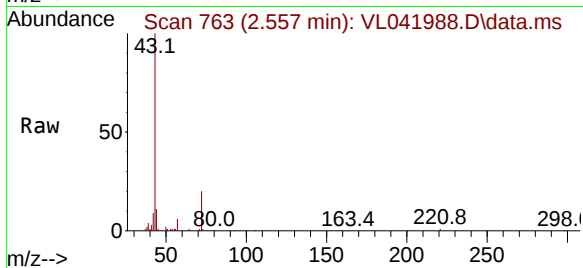
#34
2-Butanone
Concen: 0.700 ppbv
RT: 2.557 min Scan# 766
Delta R.T. -0.010 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Instrument :
MSVOA_L
Client SampleId :
SV2DL

Tgt Ion: 43 Resp: 18559
Ion Ratio Lower Upper
43 100
72 20.1 18.6 28.0

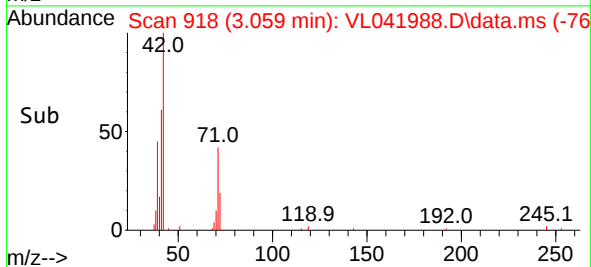
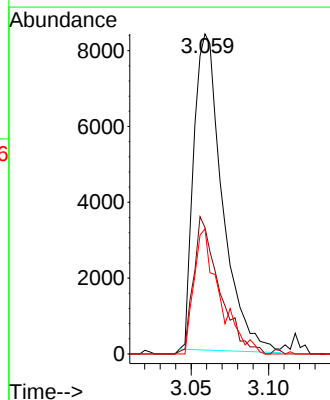
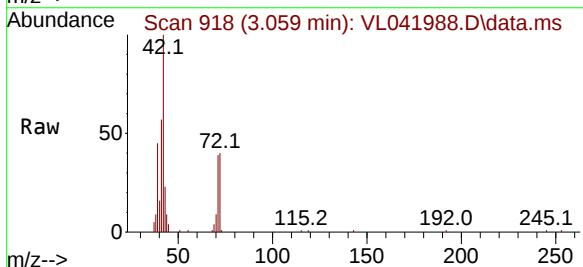
Manual Integrations
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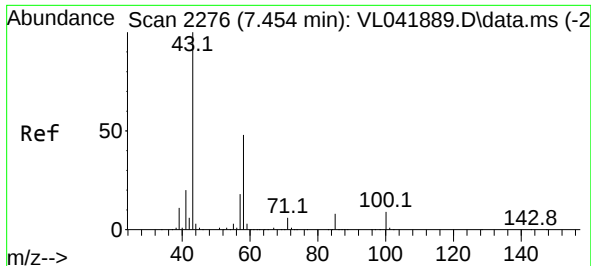
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#41
Tetrahydrofuran
Concen: 0.742 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.006 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

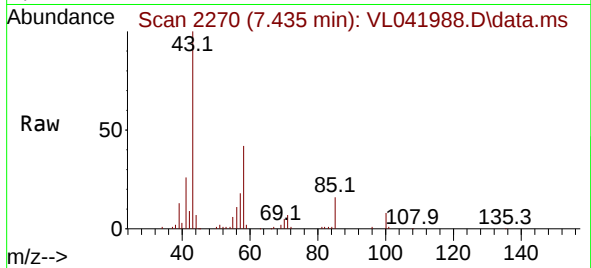
Tgt Ion: 42 Resp: 10695
Ion Ratio Lower Upper
42 100
72 39.6 32.3 48.5
71 35.6 29.9 44.9





#51
2-Hexanone
Concen: 2.247 ppbv m
RT: 7.435 min Scan# 2100
Delta R.T. -0.019 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

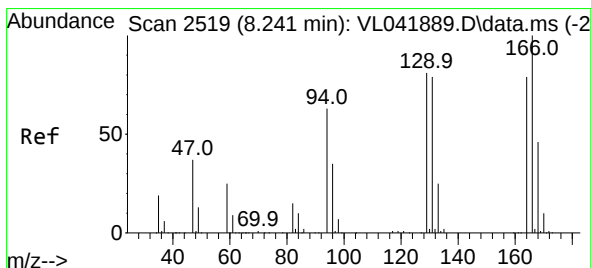
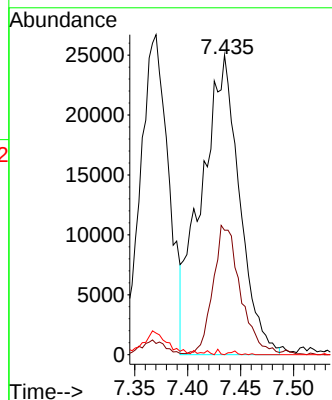
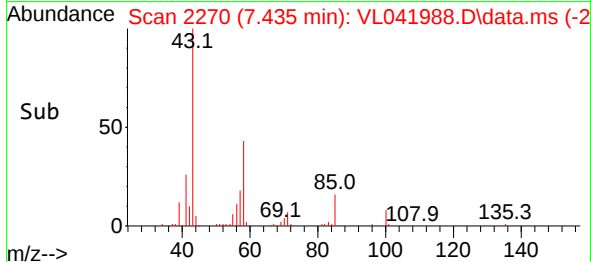
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 43 Resp: 62540
Ion Ratio Lower Upper
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58 0.0 40.4 60.6
98 0.0 0.2 0.2

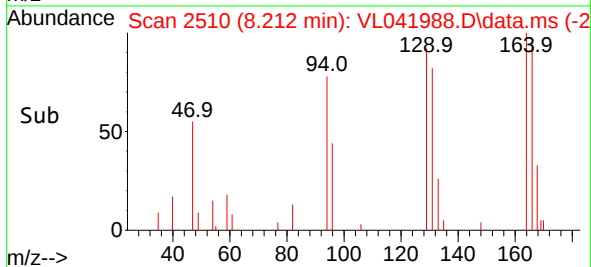
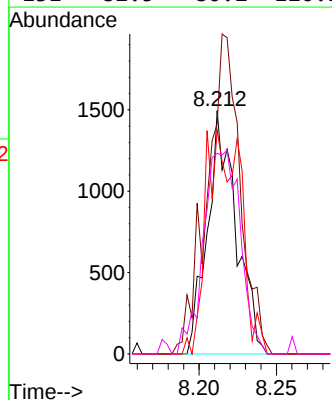
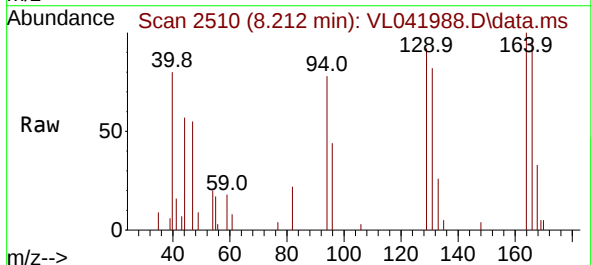
Manual Integrations
APPROVED

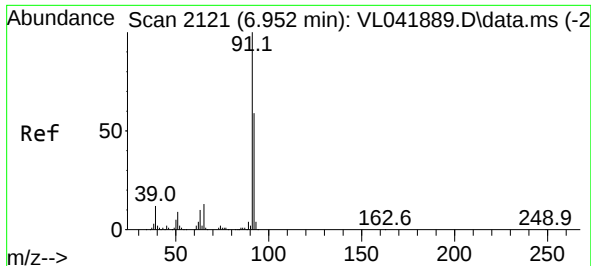
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Tetrachloroethene
Concen: 0.145 ppbv m
RT: 8.212 min Scan# 2510
Delta R.T. -0.029 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Tgt Ion:164 Resp: 1923
Ion Ratio Lower Upper
164 100
166 94.6 100.8 151.2#
129 91.9 82.0 123.0
131 82.5 80.2 120.2





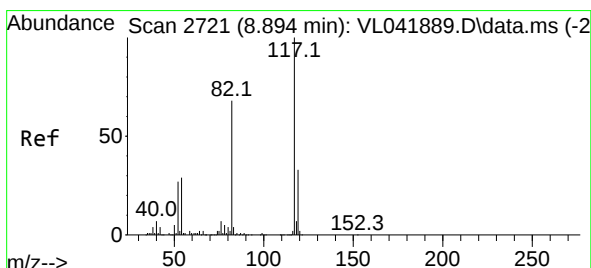
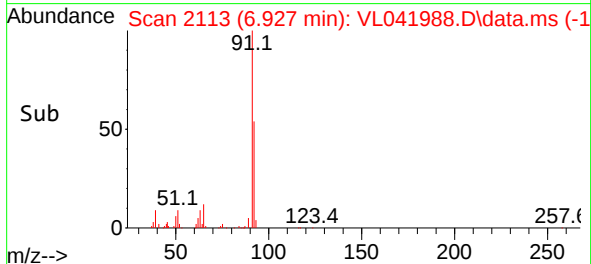
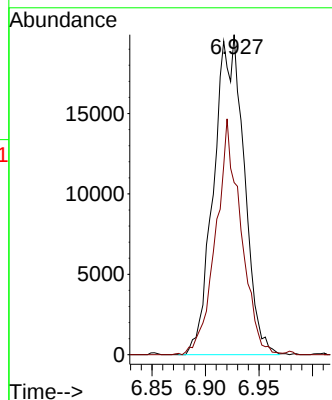
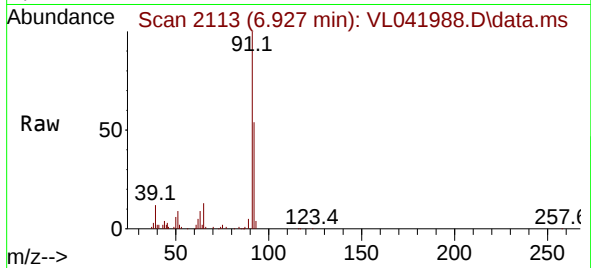
#53
Toluene
Concen: 0.941 ppbv m
RT: 6.927 min Scan# 2121
Delta R.T. -0.026 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 91 Resp: 3922
Ion Ratio Lower Upper
91 100
92 61.5 47.4 71.0

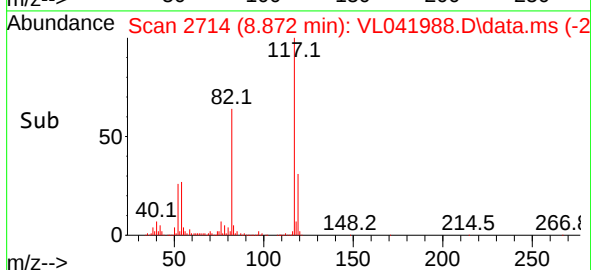
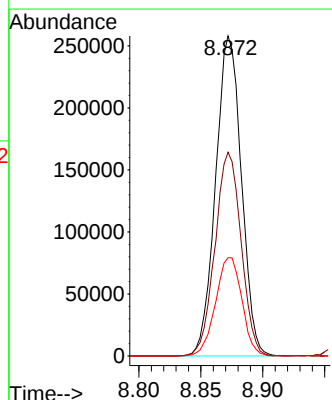
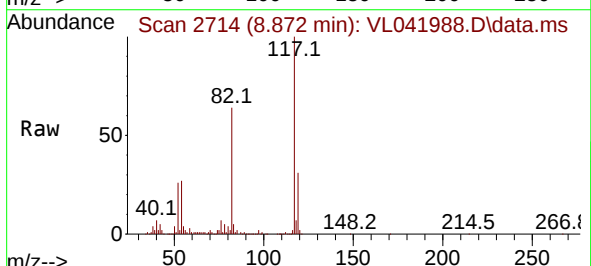
Manual Integrations
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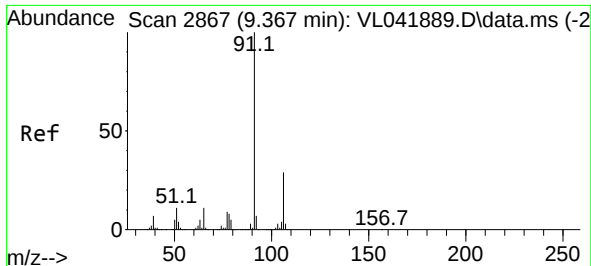
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.023 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Tgt Ion:117 Resp: 374032
Ion Ratio Lower Upper
117 100
82 64.6 54.2 81.4
119 31.5 25.0 37.6





#58

Ethyl Benzene

Concen: 0.638 ppbv

RT: 9.348 min Scan# 2861

Delta R.T. -0.019 min

Lab File: VL041988.D

Acq: 10 Feb 2025 15:10

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion: 91 Resp: 3727

Ion Ratio Lower Upper

91 100

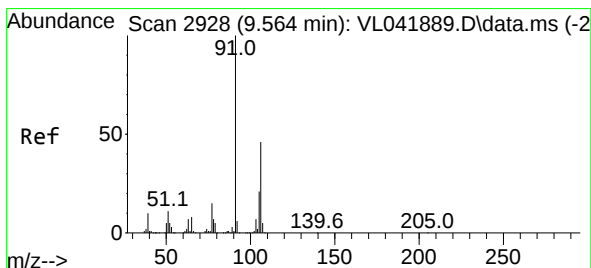
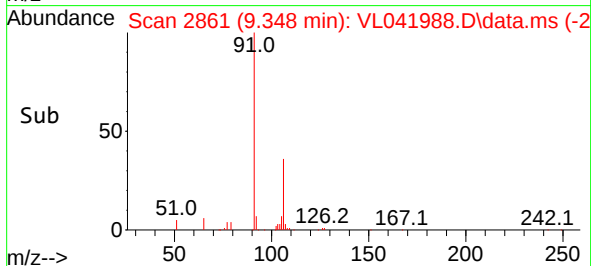
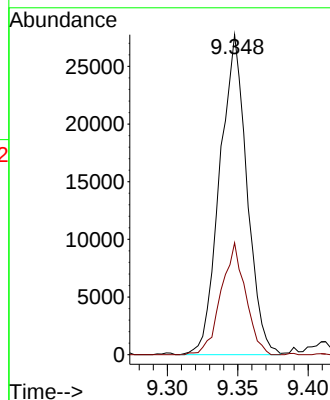
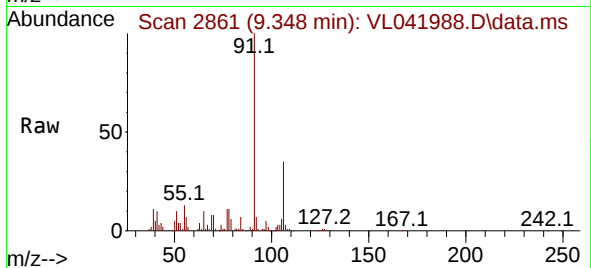
106 35.0 23.1 34.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#59

m/p-Xylene

Concen: 1.636 ppbv

RT: 9.522 min Scan# 2915

Delta R.T. -0.042 min

Lab File: VL041988.D

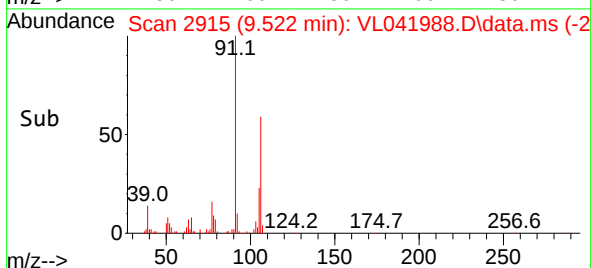
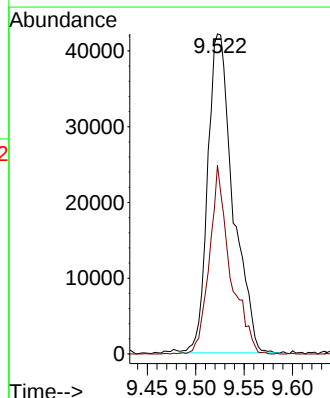
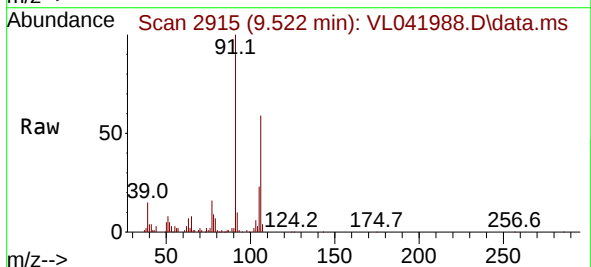
Acq: 10 Feb 2025 15:10

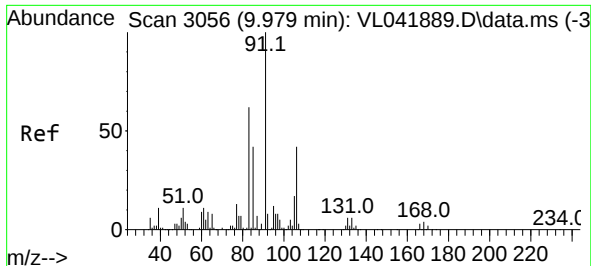
Tgt Ion: 91 Resp: 76654

Ion Ratio Lower Upper

91 100

106 48.9 36.0 54.0





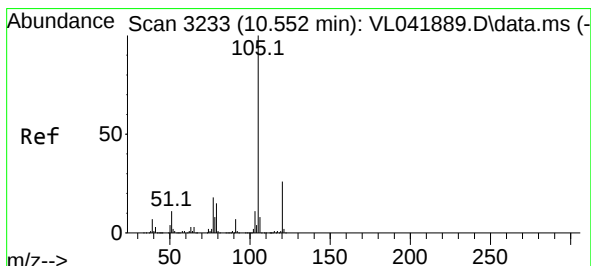
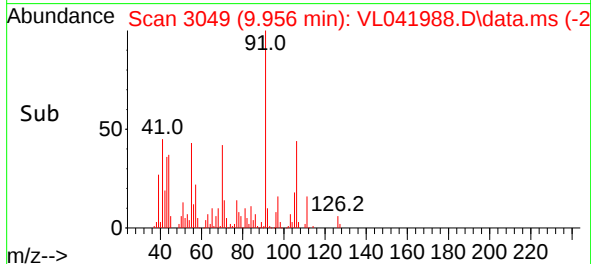
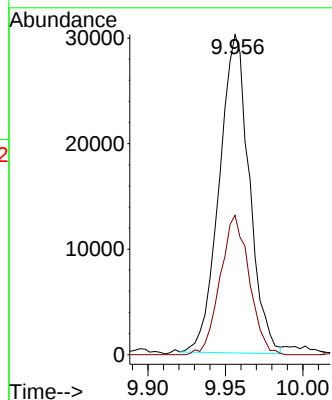
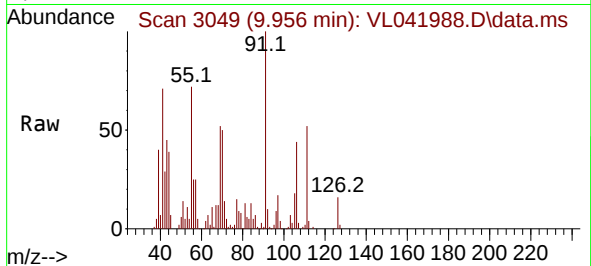
#60
o-Xylene
Concen: 0.874 ppbv
RT: 9.956 min Scan# 3056
Delta R.T. -0.023 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 91 Resp: 4062
Ion Ratio Lower Upper
91 100
106 42.3 21.3 63.9

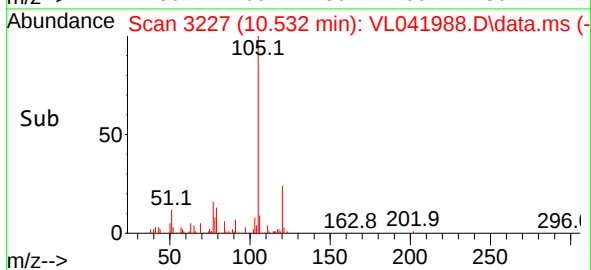
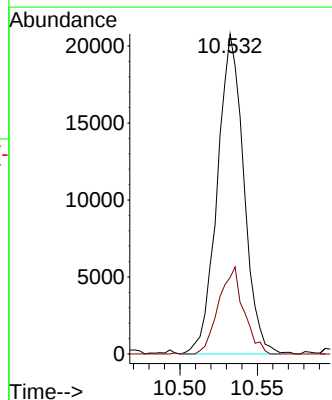
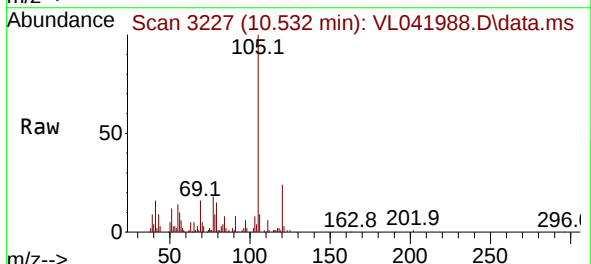
Manual Integrations
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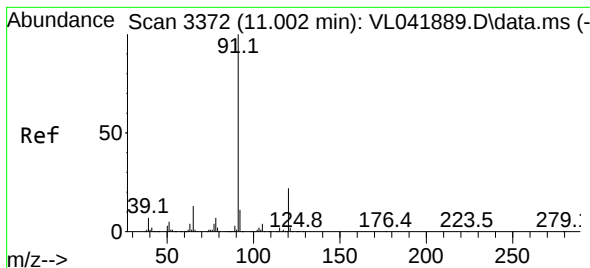
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
Isopropylbenzene
Concen: 0.344 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.019 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Tgt Ion:105 Resp: 24729
Ion Ratio Lower Upper
105 100
120 25.8 20.3 30.5





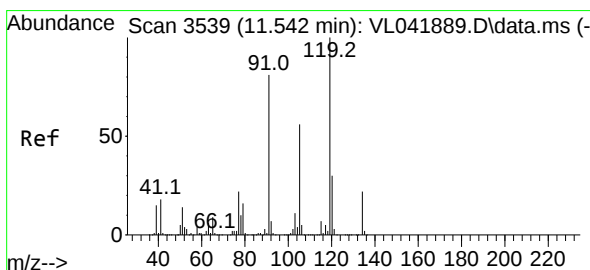
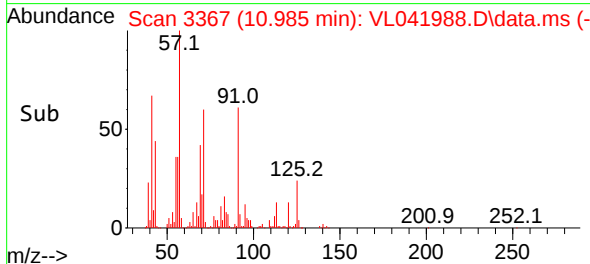
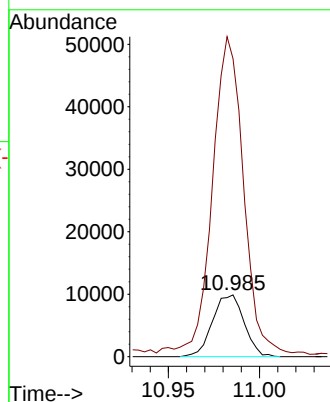
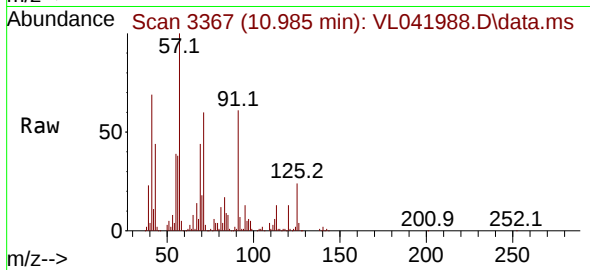
#64
n-propylbenzene
Concen: 0.654 ppbv
RT: 10.985 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion:120 Resp: 11898
Ion Ratio Lower Upper
120 100
91 519.9 374.1 561.1

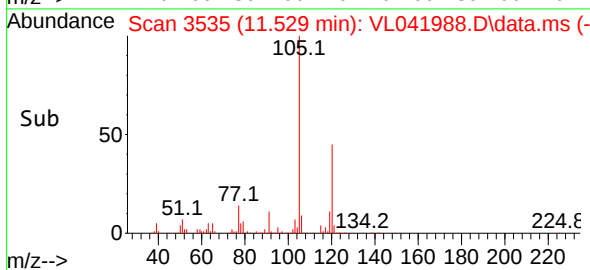
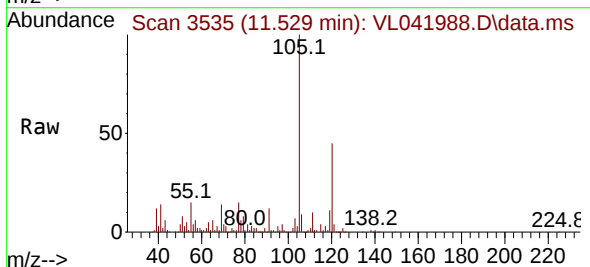
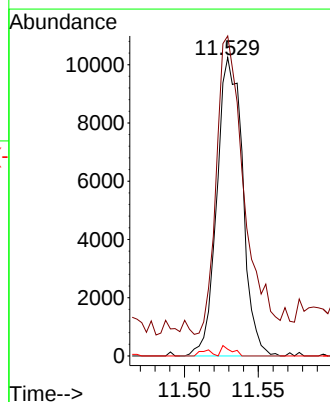
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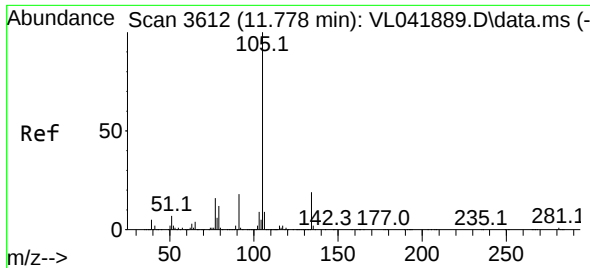
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#65
tert-Butylbenzene
Concen: 0.190 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.013 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Tgt Ion:119 Resp: 12430
Ion Ratio Lower Upper
119 100
91 112.1 64.6 97.0#
134 2.3 16.8 25.2#





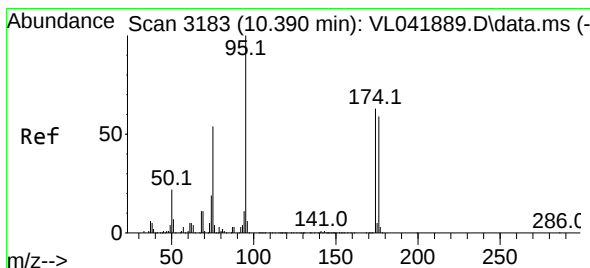
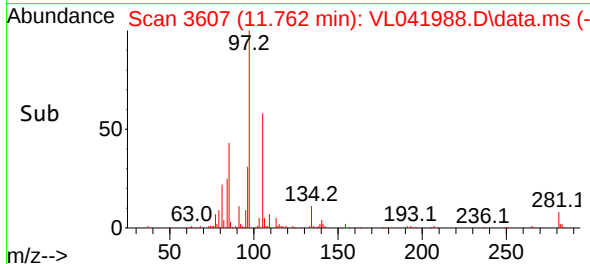
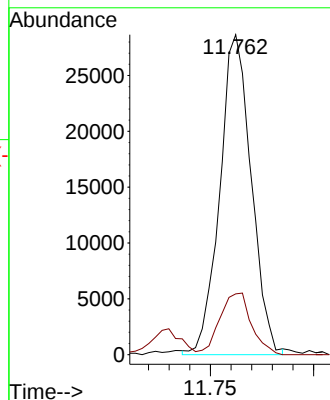
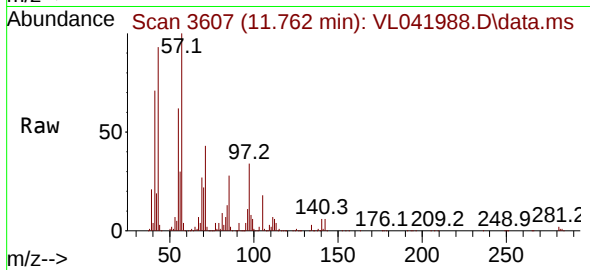
#67
 sec-Butylbenzene
 Concen: 0.336 ppbv m
 RT: 11.762 min Scan# 3030
 Delta R.T. -0.016 min
 Lab File: VL041988.D
 Acq: 10 Feb 2025 15:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tgt Ion:105 Resp: 3030
 Ion Ratio Lower Upper
 105 100
 134 21.5 15.1 22.7

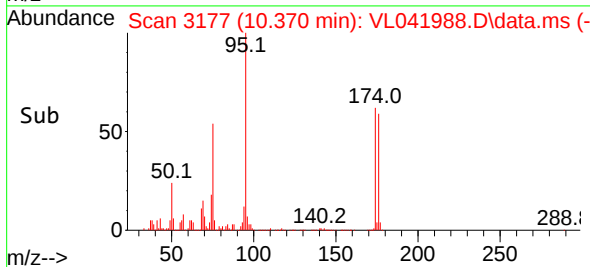
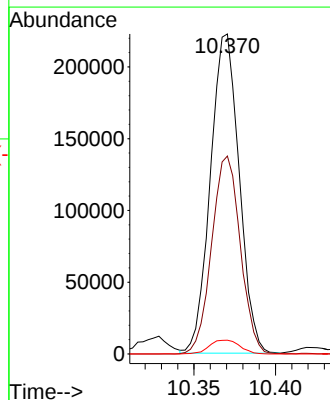
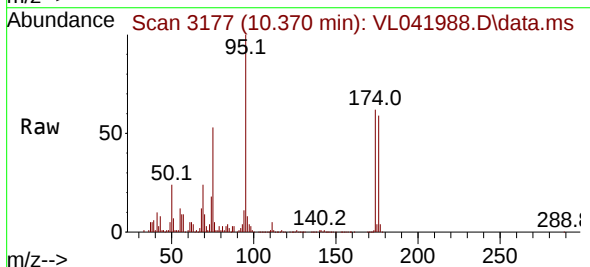
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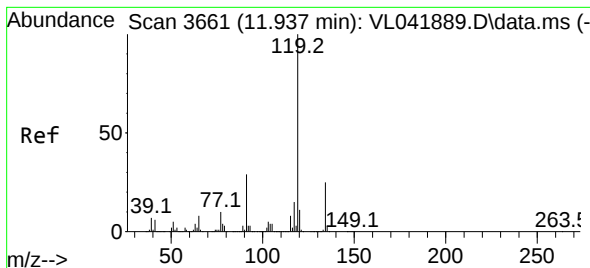
Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.264 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.019 min
 Lab File: VL041988.D
 Acq: 10 Feb 2025 15:10

Tgt Ion: 95 Resp: 272910
 Ion Ratio Lower Upper
 95 100
 174 61.8 49.0 73.4
 175 4.6 3.8 5.8





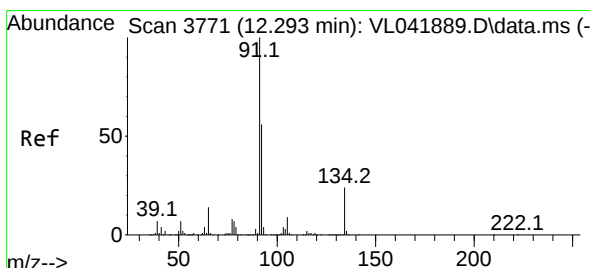
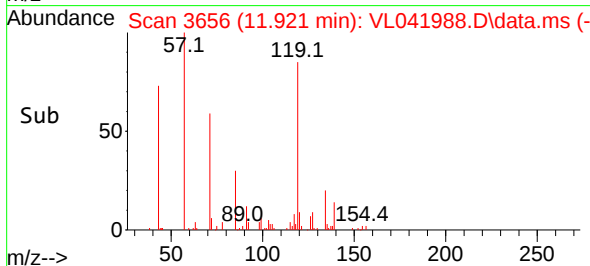
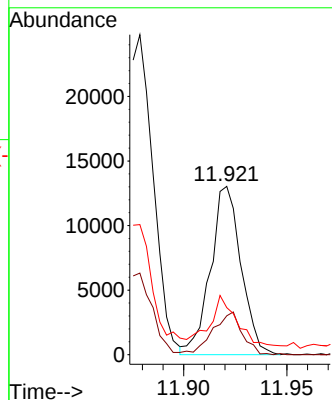
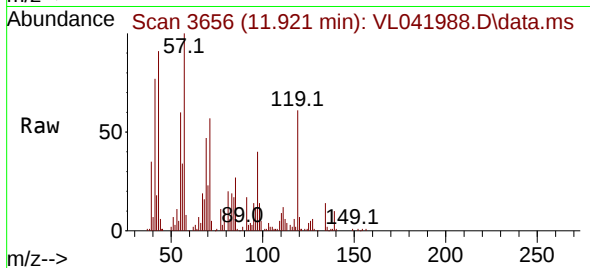
#69
p-Isopropyltoluene
Concen: 0.181 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.016 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 119 Resp: 1342
Ion Ratio Lower Upper
119 100
134 24.8 19.8 29.6
91 23.6 23.0 34.4

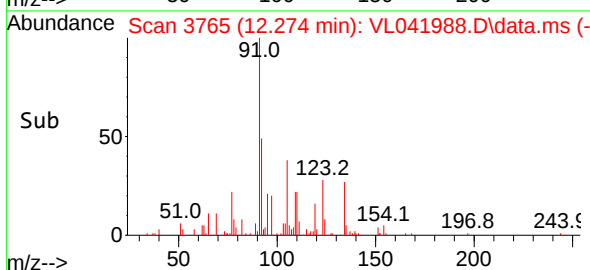
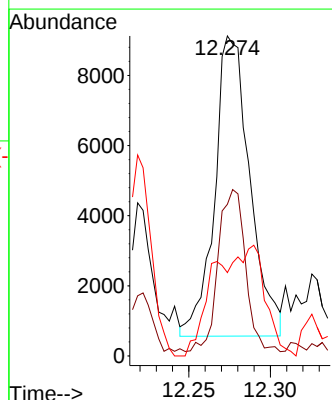
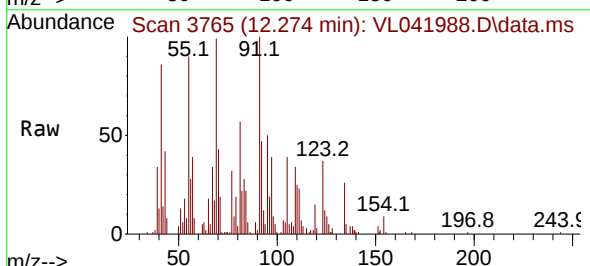
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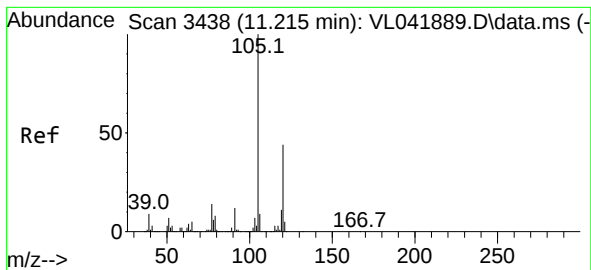
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#70
n-Butylbenzene
Concen: 0.174 ppbv
RT: 12.274 min Scan# 3765
Delta R.T. -0.019 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Tgt Ion: 91 Resp: 12843
Ion Ratio Lower Upper
91 100
92 42.4 43.8 65.6#
134 53.6 19.0 28.6#





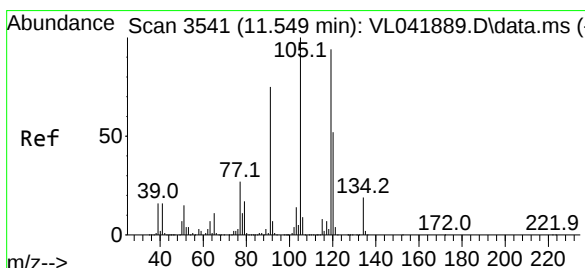
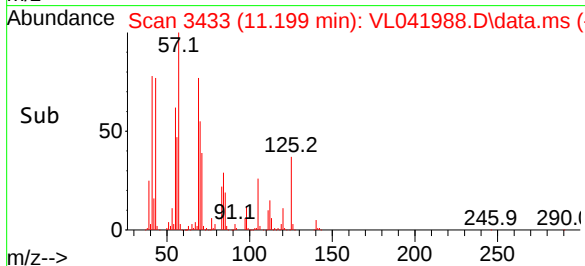
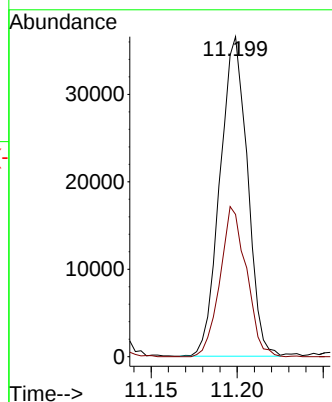
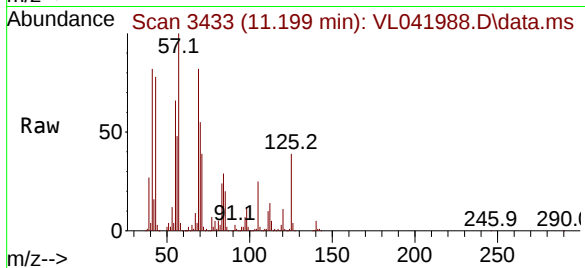
#73
1,3,5-Trimethylbenzene
Concen: 0.825 ppbv
RT: 11.199 min Scan# 3438
Delta R.T. -0.016 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion:105 Resp: 40544
Ion Ratio Lower Upper
105 100
120 44.5 35.4 53.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#74
1,2,4-Trimethylbenzene
Concen: 1.868 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.019 min
Lab File: VL041988.D
Acq: 10 Feb 2025 15:10

Tgt Ion:105 Resp: 99391
Ion Ratio Lower Upper
105 100
120 45.4 41.4 62.2
91 10.5 60.2 90.2#
77 13.1 22.0 33.0#

