

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041980.D
 Acq On : 10 Feb 2025 11:02
 Operator : SY/MD
 Sample : Q1302-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

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

Quant Time: Feb 11 01:20:06 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	2.780	49	158512	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	429248	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	379058	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	294361	9.859	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
9) Propene	1.479	41	12427	1.334	ppbv	100
10) Heptane	4.965	43	9974m	0.400	ppbv	
11) Trichlorofluoromethane	1.874	101	3774	0.168	ppbv	97
13) Ethanol	1.719	45	5001	7.328	ppbv #	31
15) Acetone	1.829	43	1132099	59.464	ppbv	93
16) 1,3-Butadiene	1.599	39	7596	0.889	ppbv #	51
17) tert-Butyl alcohol	2.039	59	12724	0.543	ppbv	100
20) Methylene Chloride	2.059	84	1168	0.155	ppbv #	90
26) Hexane	2.819	57	9708	0.478	ppbv #	38
27) Carbon Disulfide	2.146	76	4556	0.227	ppbv #	47
32) 1,1,1-Trichloroethane	3.363	97	4923m	0.160	ppbv	
34) 2-Butanone	2.554	43	223908	8.202	ppbv	99
35) Carbon Tetrachloride	3.751	117	3347m	0.124	ppbv	
36) Benzene	3.648	78	27289	0.693	ppbv	95
41) Tetrahydrofuran	3.059	42	6874	0.463	ppbv #	45
50) 4-Methyl-2-Pentanone	5.752	43	57304m	1.538	ppbv	
51) 2-Hexanone	7.435	43	41152m	1.437	ppbv	
52) Tetrachloroethene	8.215	164	2812m	0.206	ppbv	
53) Toluene	6.923	91	246103	5.739	ppbv	100
59) m/p-Xylene	9.522	91	8790m	0.185	ppbv	

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

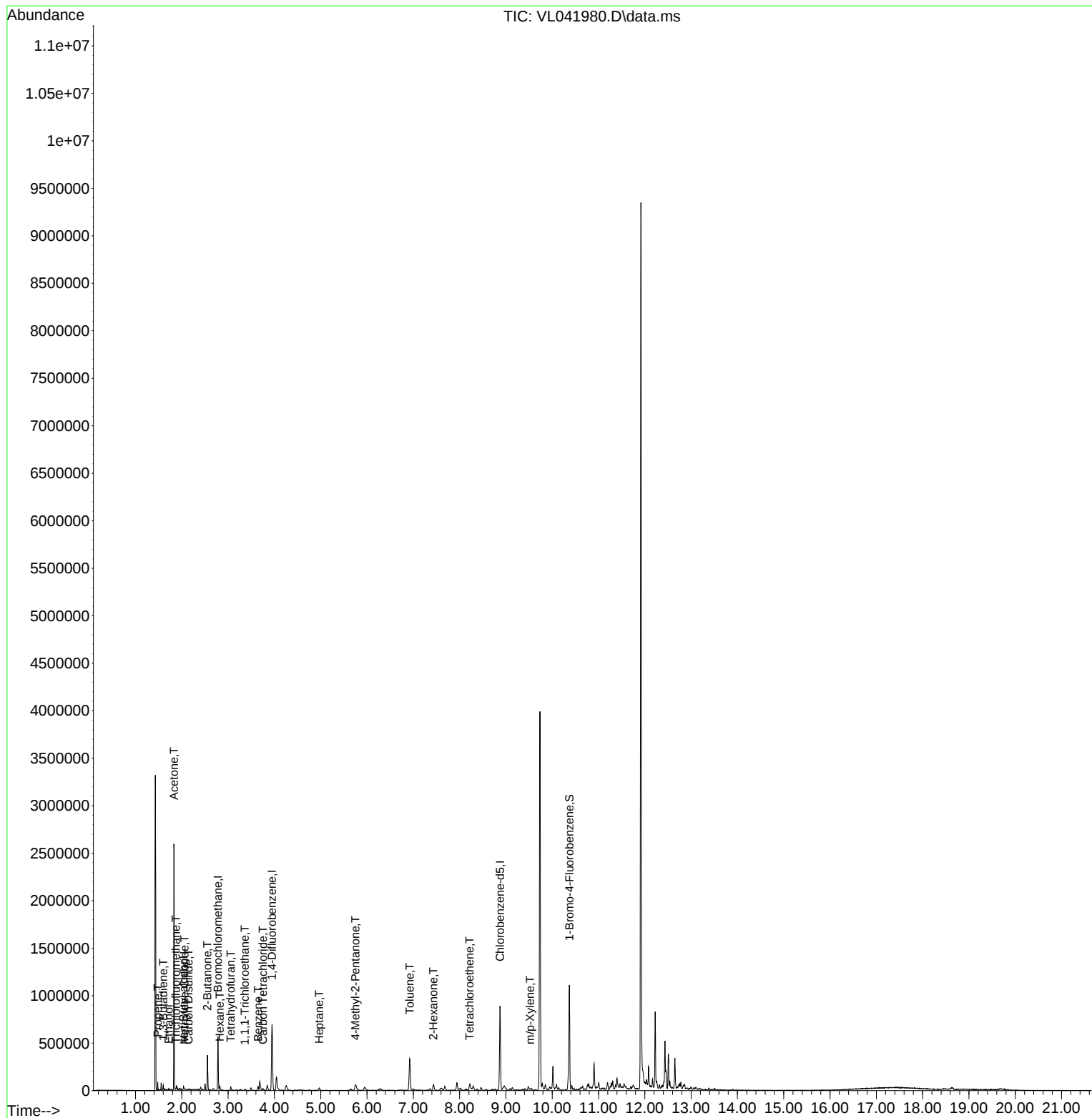
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041980.D
Acq On : 10 Feb 2025 11:02
Operator : SY/MD
Sample : Q1302-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

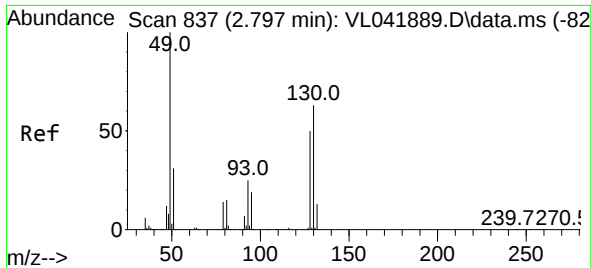
Instrument :
MSVOA_L
ClientSampleId :
SV1

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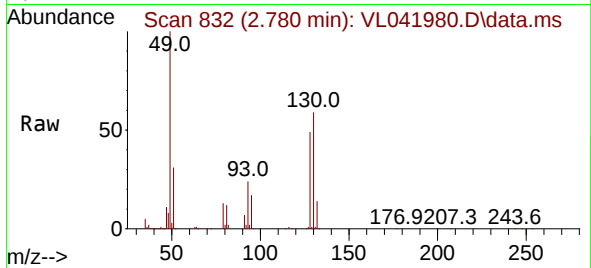
Quant Time: Feb 11 01:20:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.017 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

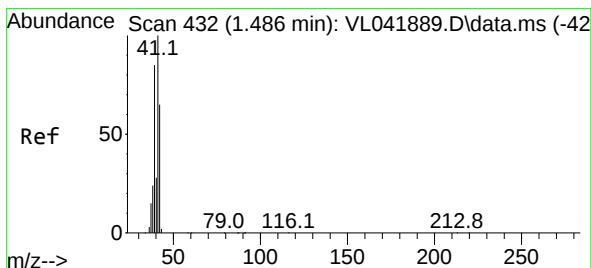
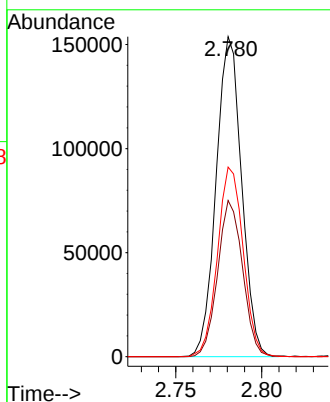
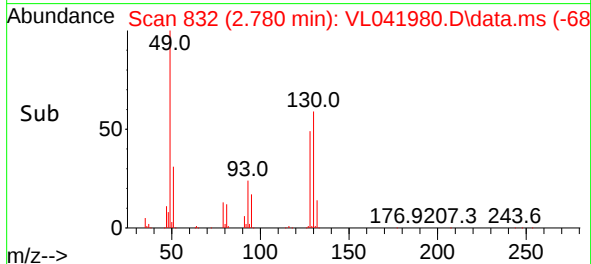
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 158512
Ion Ratio Lower Upper
49 100
128 47.7 24.3 73.0
130 59.7 31.1 93.2

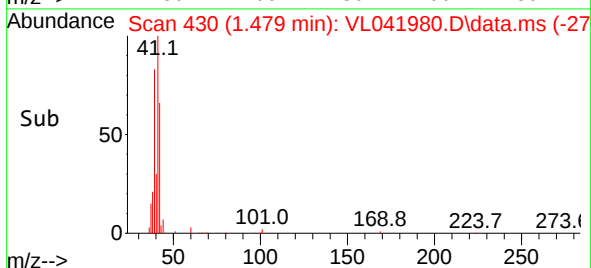
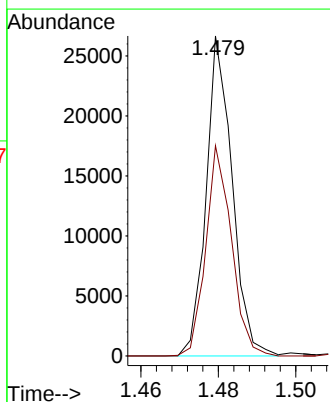
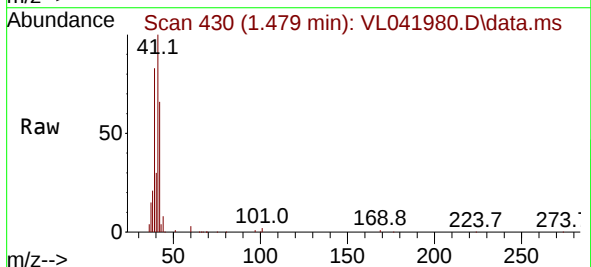
Manual Integrations
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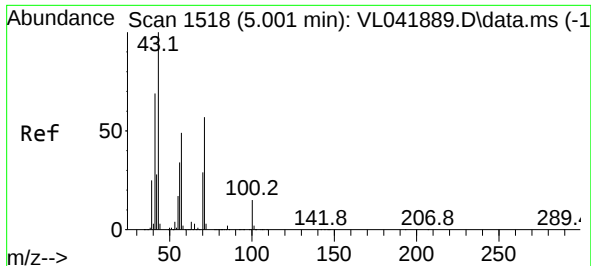
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#9
Propene
Concen: 1.334 ppbv
RT: 1.479 min Scan# 430
Delta R.T. -0.007 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

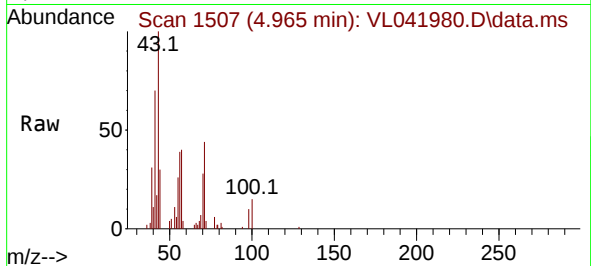
Tgt Ion: 41 Resp: 12427
Ion Ratio Lower Upper
41 100
42 64.9 52.0 78.0





#10
Heptane
Concen: 0.400 ppbv m
RT: 4.965 min Scan# 11
Delta R.T. -0.036 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

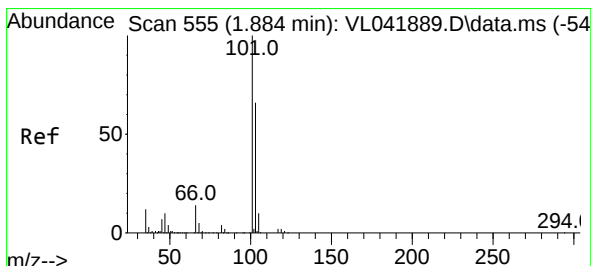
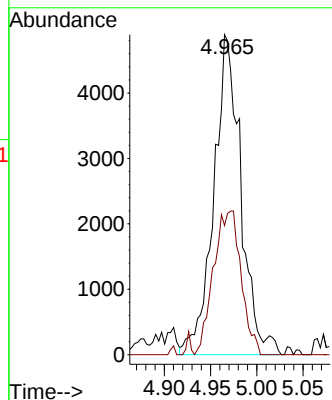
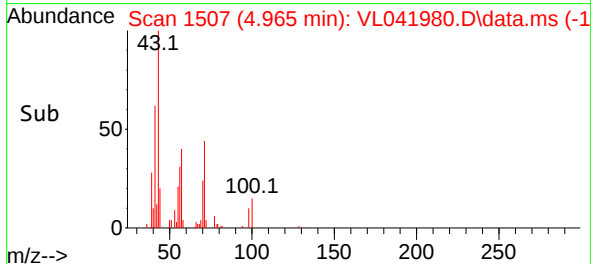
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 9974
Ion Ratio Lower Upper
43 100
57 0.0 41.0 61.4

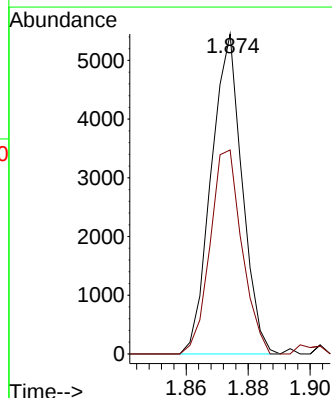
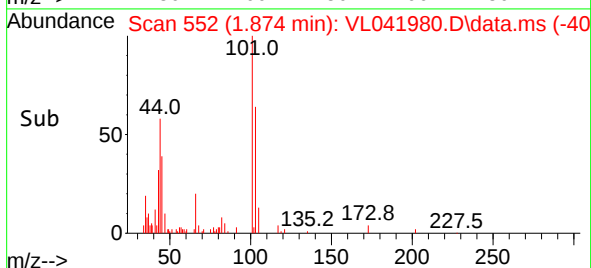
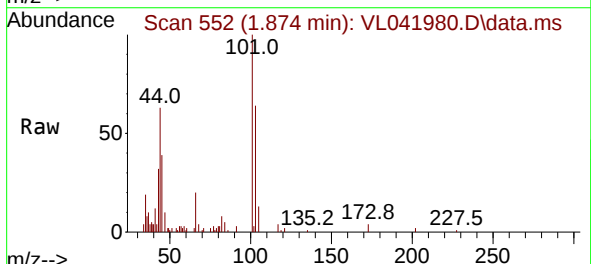
Manual Integrations
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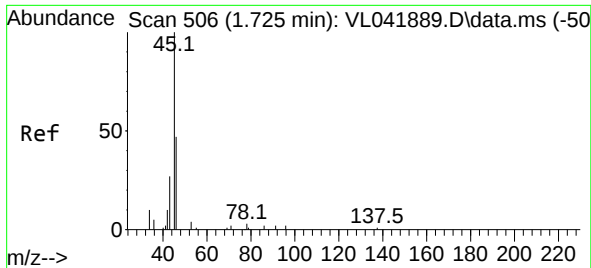
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#11
Trichlorofluoromethane
Concen: 0.168 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.010 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

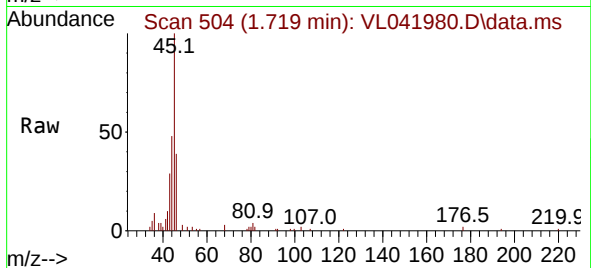
Tgt Ion:101 Resp: 3774
Ion Ratio Lower Upper
101 100
103 63.8 53.1 79.7





#13
Ethanol
Concen: 7.328 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.007 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

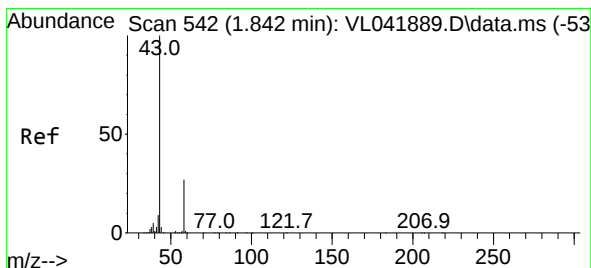
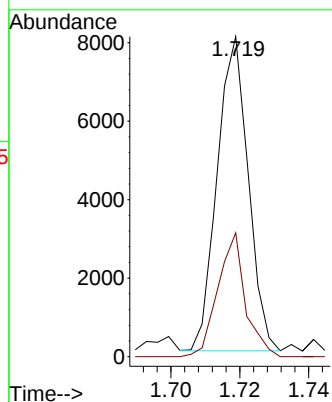
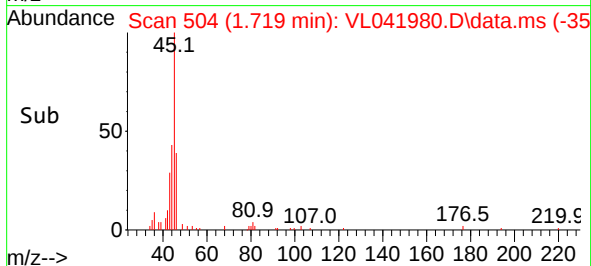
Instrument :
MSVOA_L
ClientSampleId :
SV1



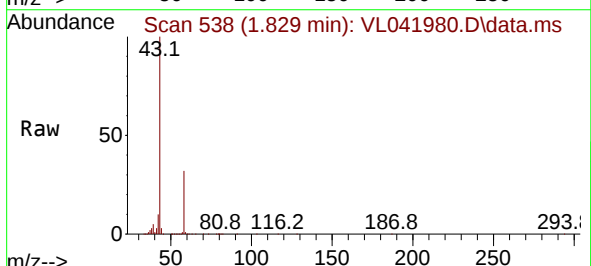
Tgt Ion: 45 Resp: 500
Ion Ratio Lower Upper
45 100
46 0.0 18.1 72.5

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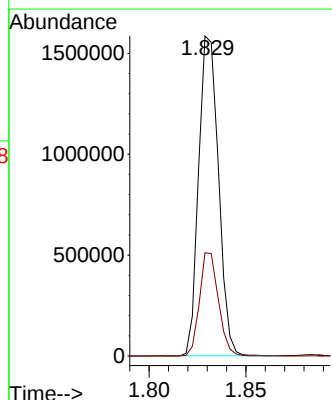
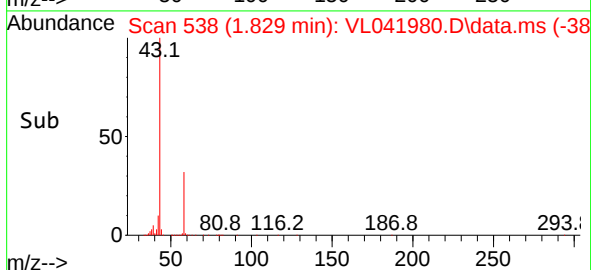
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

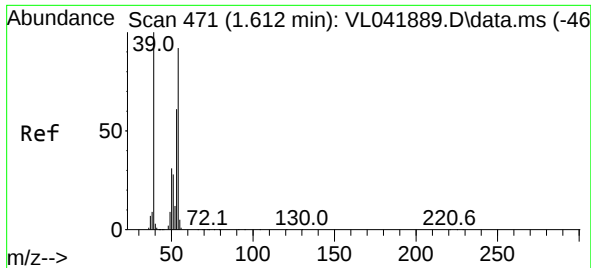


#15
Acetone
Concen: 59.464 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.013 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02



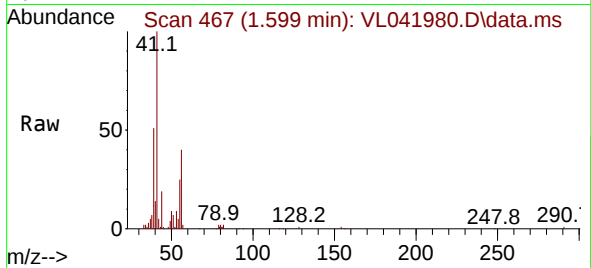
Tgt Ion: 43 Resp: 1132099
Ion Ratio Lower Upper
43 100
58 30.9 21.9 32.9





#16
1,3-Butadiene
Concen: 0.889 ppbv
RT: 1.599 min Scan# 40
Delta R.T. -0.013 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

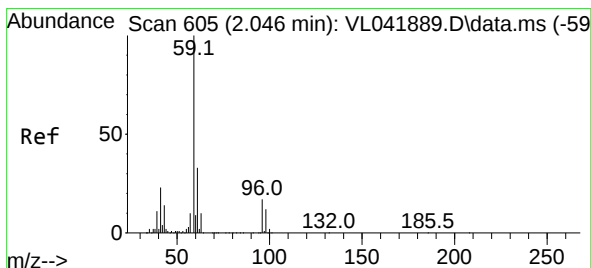
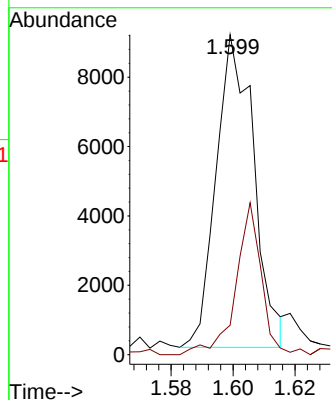
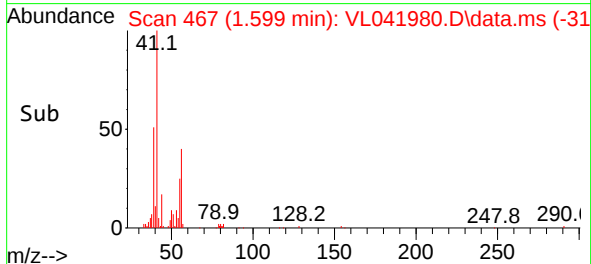
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 39 Resp: 7590
Ion Ratio Lower Upper
39 100
54 34.2 61.6 92.4

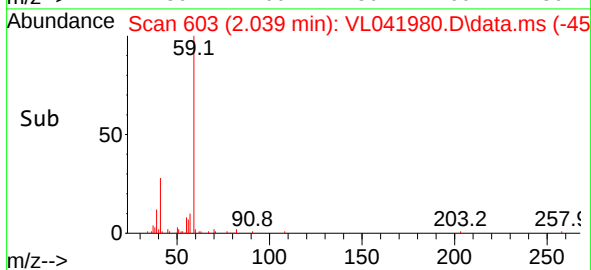
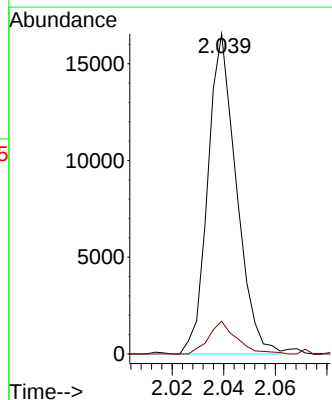
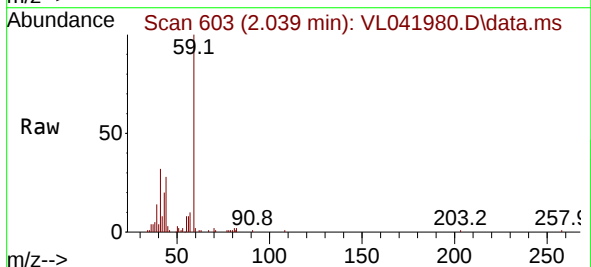
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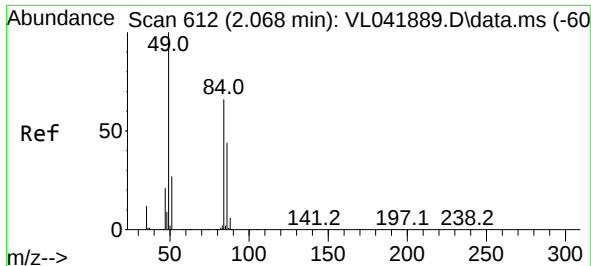
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#17
tert-Butyl alcohol
Concen: 0.543 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.007 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

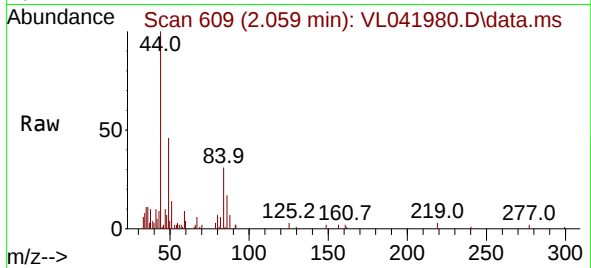
Tgt Ion: 59 Resp: 12724
Ion Ratio Lower Upper
59 100
57 9.9 7.8 11.8





#20
Methylene Chloride
Concen: 0.155 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

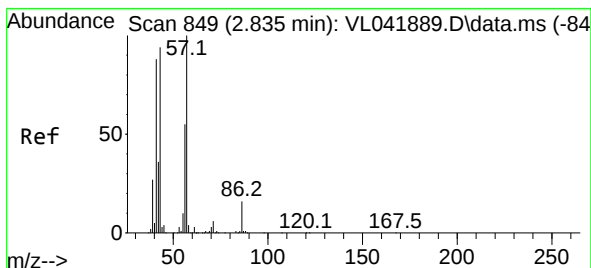
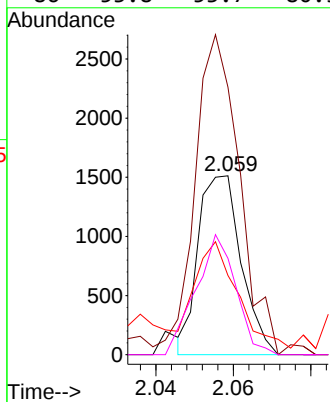
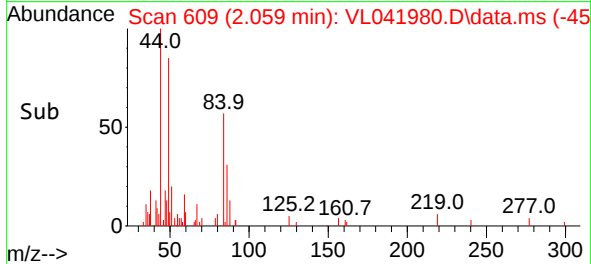
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:	84	Resp:	1168
Ion	Ratio	Lower	Upper
84	100		
49	160.9	123.1	184.7
51	35.7	35.8	53.8
86	53.8	53.7	80.5

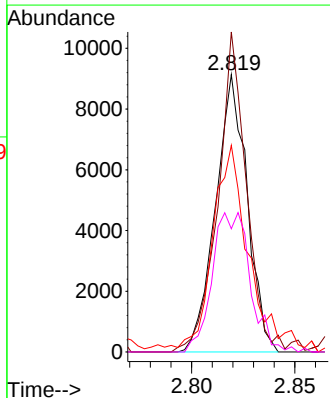
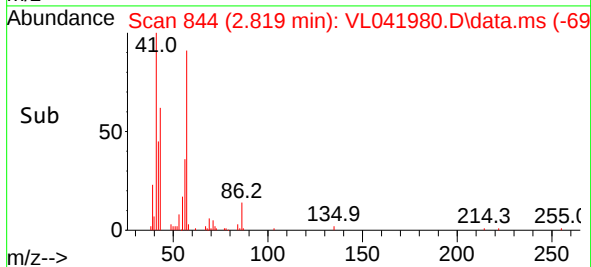
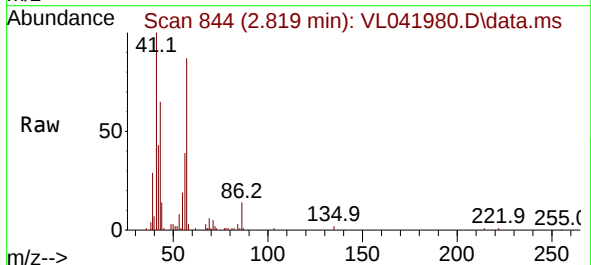
Manual Integrations
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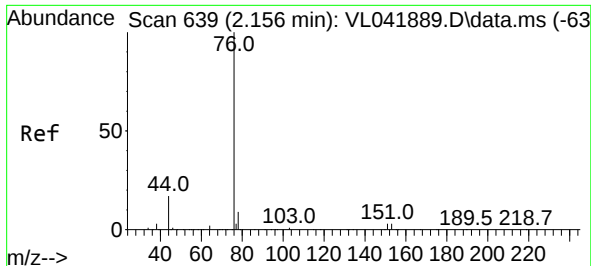
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#26
Hexane
Concen: 0.478 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.016 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

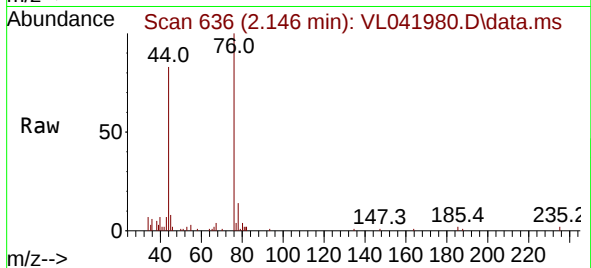
Tgt Ion:	57	Resp:	9708
Ion	Ratio	Lower	Upper
57	100		
41	105.1	73.8	110.8
43	90.4	197.3	295.9
56	62.0	42.7	64.1





#27
Carbon Disulfide
Concen: 0.227 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

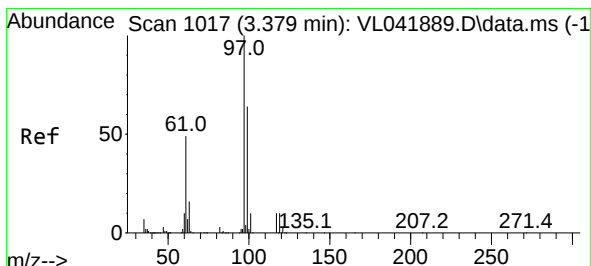
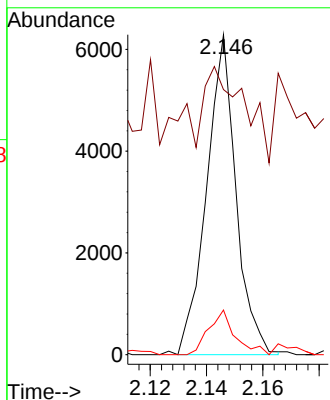
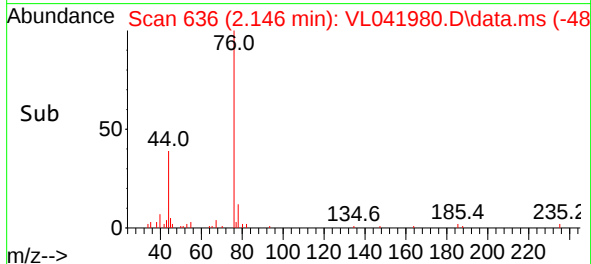
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 76 Resp: 4550
Ion Ratio Lower Upper
76 100
44 54.2 15.4 23.0
78 16.4 9.3 13.9

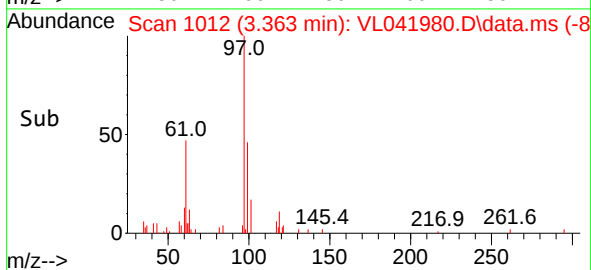
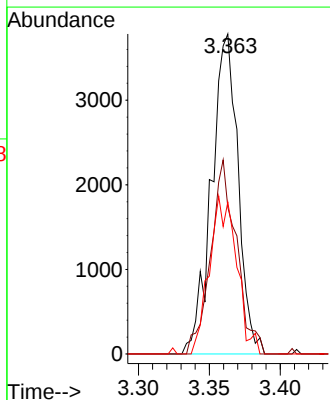
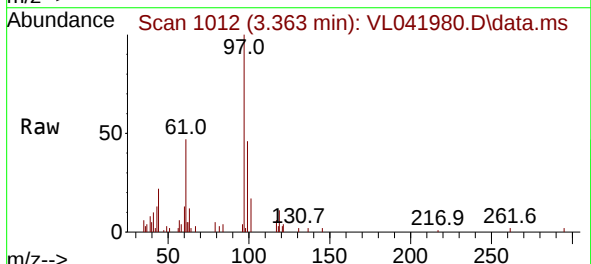
Manual Integrations
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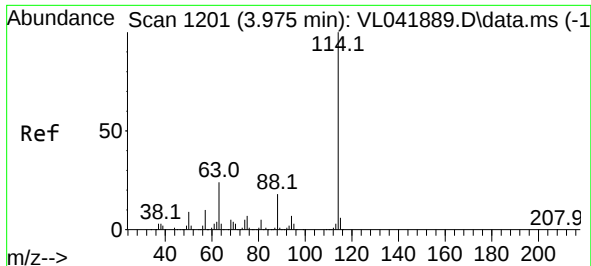
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#32
1,1,1-Trichloroethane
Concen: 0.160 ppbv m
RT: 3.363 min Scan# 1012
Delta R.T. -0.016 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

Tgt Ion: 97 Resp: 4923
Ion Ratio Lower Upper
97 100
99 59.0 51.1 76.7
61 50.7 39.0 58.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.026 min

Lab File: VL041980.D

Acq: 10 Feb 2025 11:02

Instrument :

MSVOA_L

ClientSampleId :

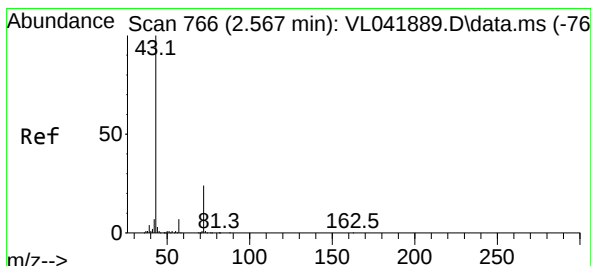
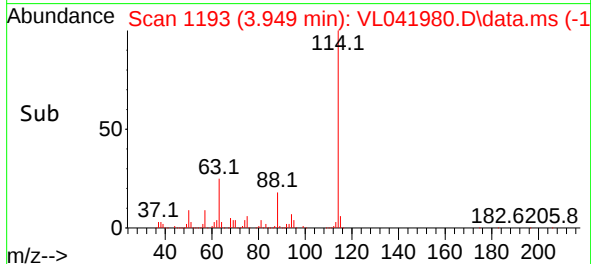
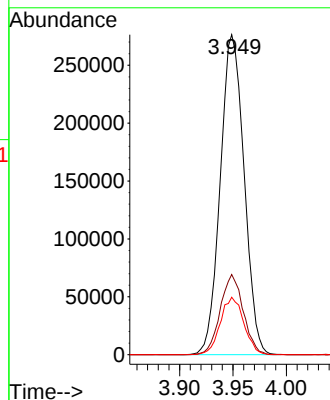
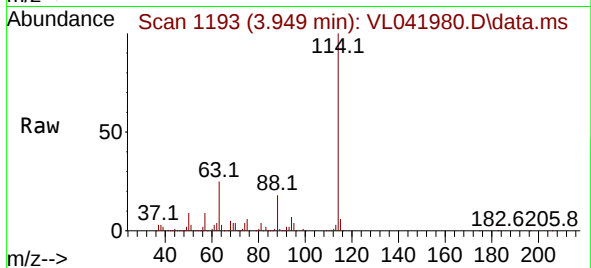
SV1

Tgt Ion:114	Resp: 429248
Ion Ratio	Lower Upper
114 100	
63 24.2	19.8 29.6
88 17.7	14.4 21.6

Manual Integrations

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



#34

2-Butanone

Concen: 8.202 ppbv

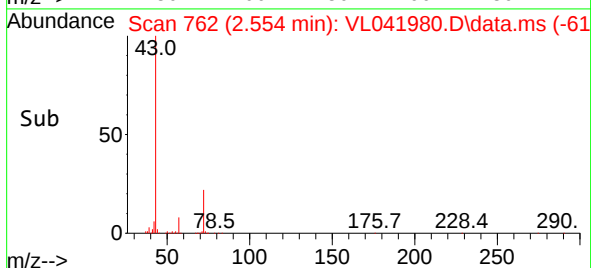
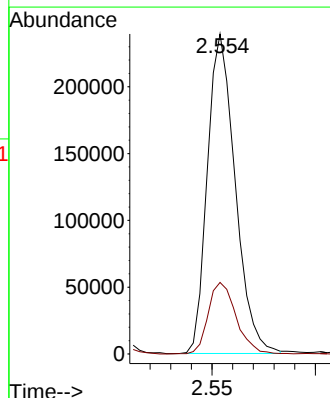
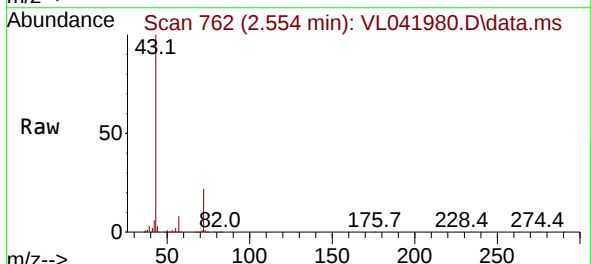
RT: 2.554 min Scan# 762

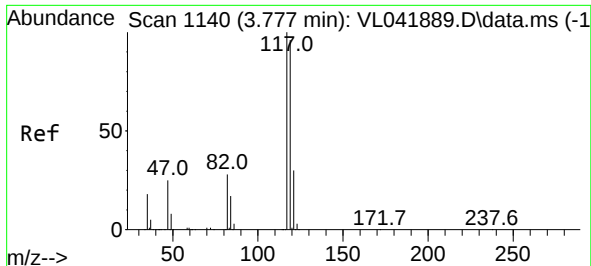
Delta R.T. -0.013 min

Lab File: VL041980.D

Acq: 10 Feb 2025 11:02

Tgt Ion: 43	Resp: 223908
Ion Ratio	Lower Upper
43 100	
72 22.6	18.6 28.0





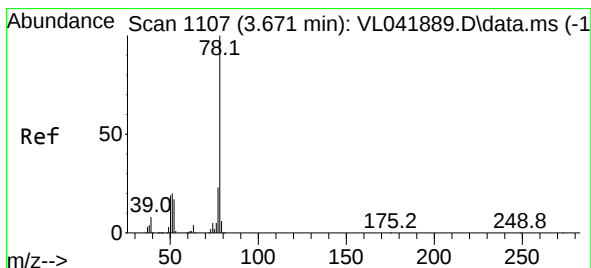
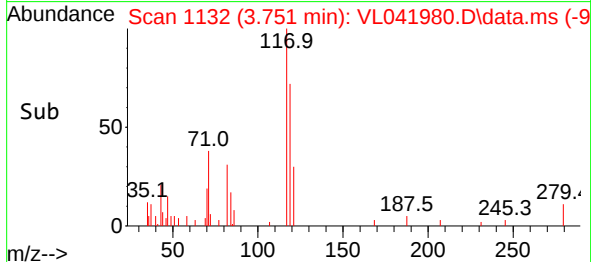
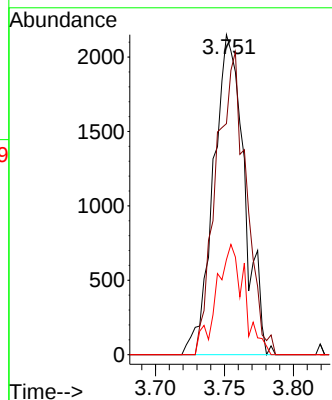
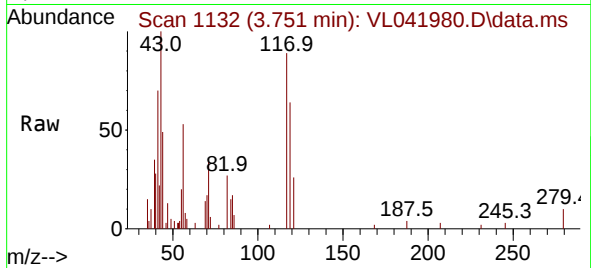
#35
Carbon Tetrachloride
Concen: 0.124 ppbv m
RT: 3.751 min Scan# 1132
Delta R.T. -0.026 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 117 Resp: 334
Ion Ratio Lower Upper
117 100
119 72.2 76.9 115.3
121 29.7 23.8 35.6

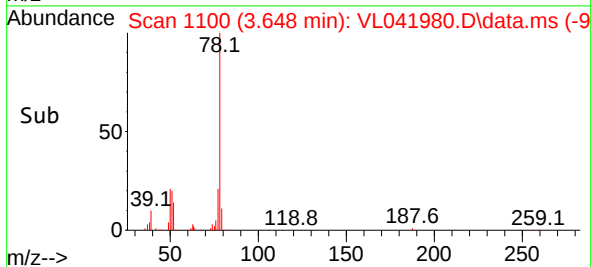
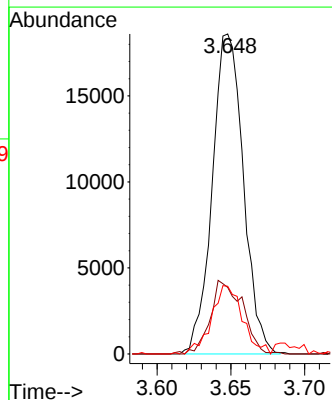
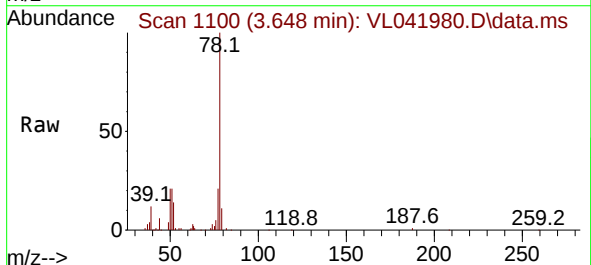
Manual Integrations
APPROVED

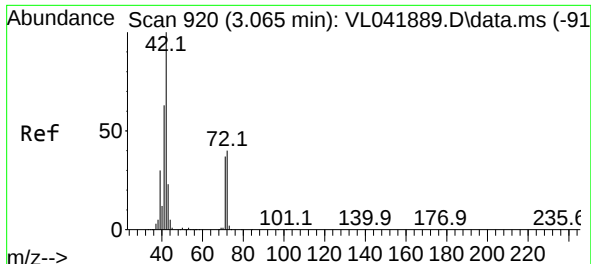
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#36
Benzene
Concen: 0.693 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.023 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

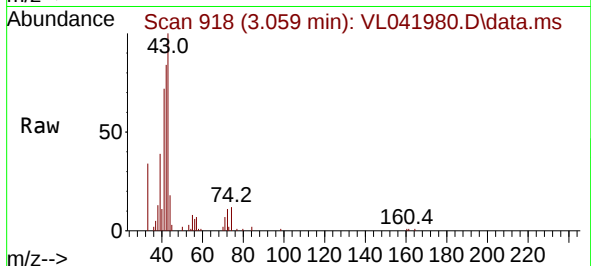
Tgt Ion: 78 Resp: 27289
Ion Ratio Lower Upper
78 100
77 20.4 18.1 27.1
50 21.2 15.2 22.8





#41
Tetrahydrofuran
Concen: 0.463 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.007 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

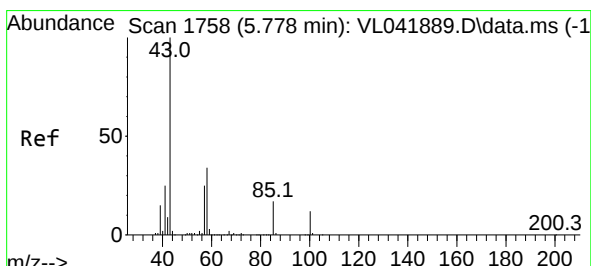
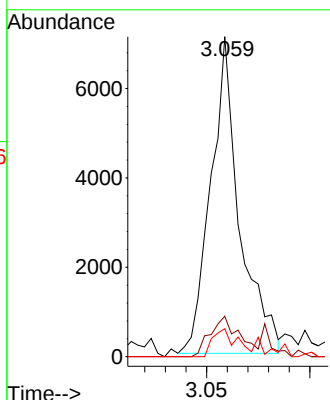
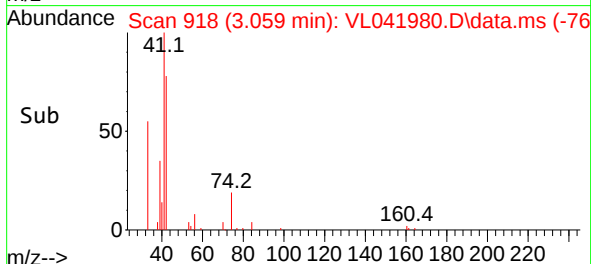
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 42 Resp: 6874
Ion Ratio Lower Upper
42 100
72 0.0 32.3 48.5
71 10.8 29.9 44.9

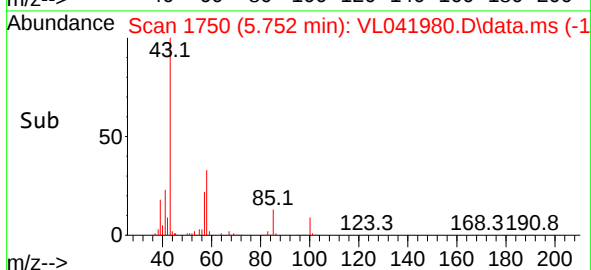
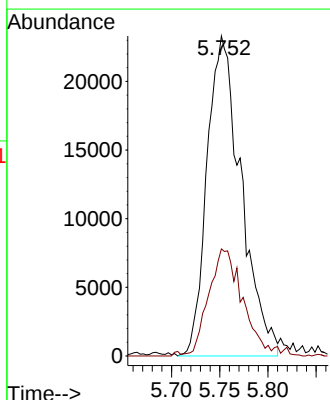
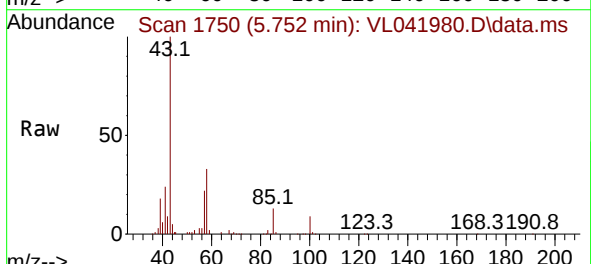
Manual Integrations
APPROVED

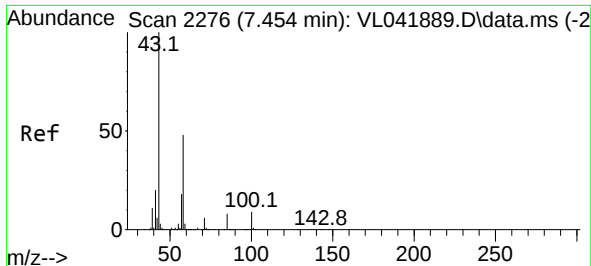
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#50
4-Methyl-2-Pentanone
Concen: 1.538 ppbv m
RT: 5.752 min Scan# 1750
Delta R.T. -0.026 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

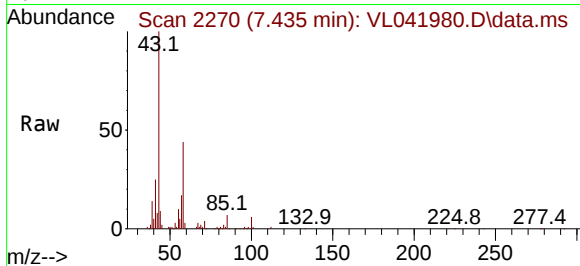
Tgt Ion: 43 Resp: 57304
Ion Ratio Lower Upper
43 100
58 34.2 29.0 43.6





#51
2-Hexanone
Concen: 1.437 ppbv m
RT: 7.435 min Scan# 2115
Delta R.T. -0.019 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

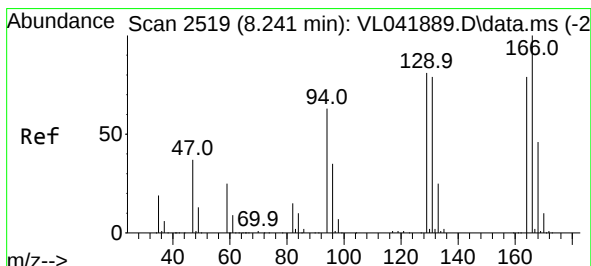
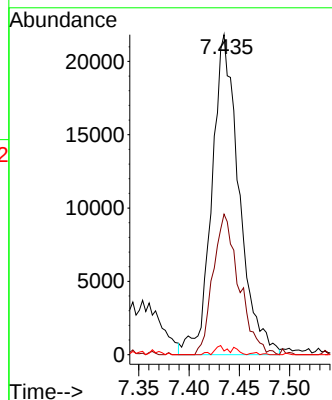
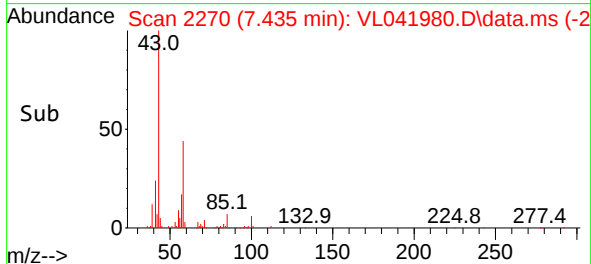
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 41152
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6
98 0.5 0.2 0.2

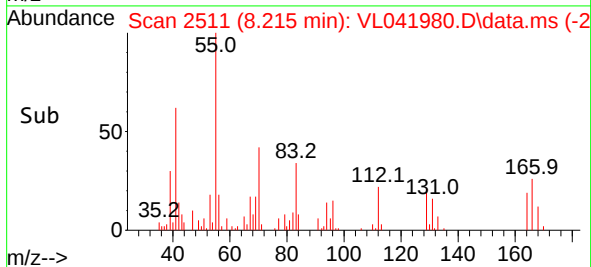
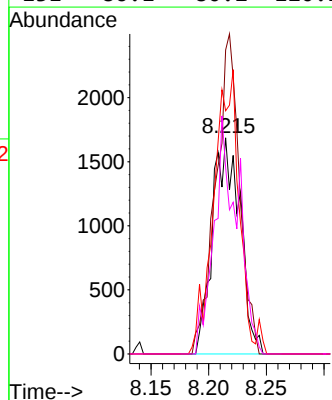
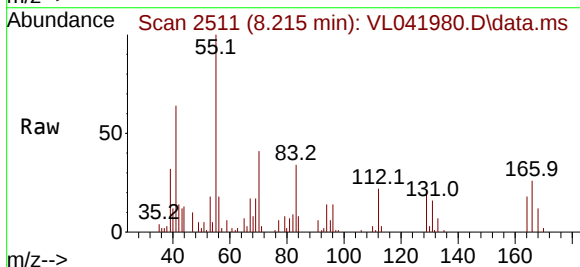
Manual Integrations
APPROVED

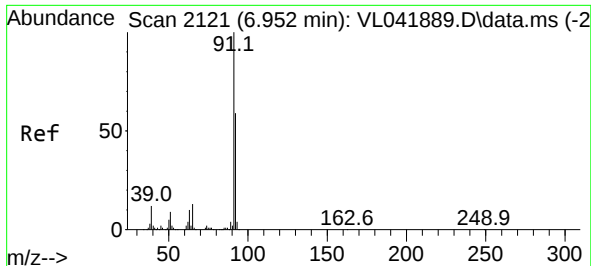
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Tetrachloroethene
Concen: 0.206 ppbv m
RT: 8.215 min Scan# 2511
Delta R.T. -0.026 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

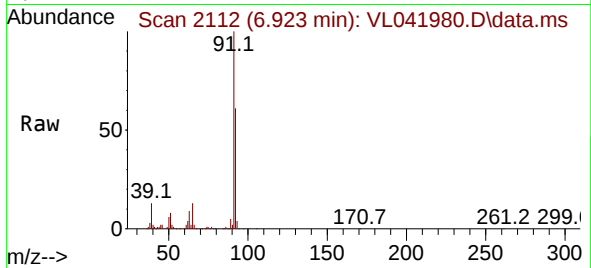
Tgt Ion:164 Resp: 2812
Ion Ratio Lower Upper
164 100
166 140.6 100.8 151.2
129 112.5 82.0 123.0
131 86.1 80.2 120.2





#53
Toluene
Concen: 5.739 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.029 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

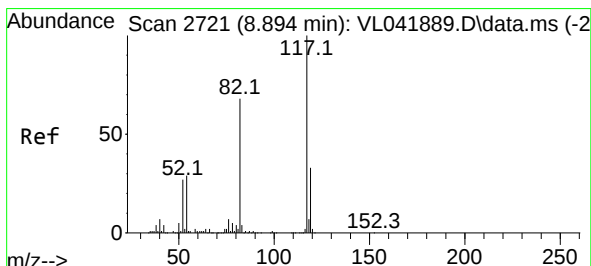
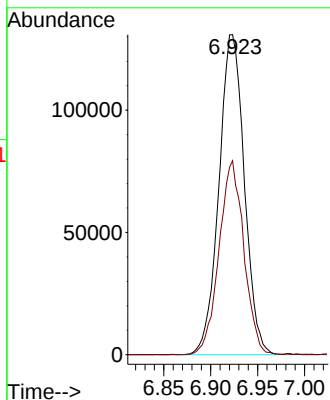
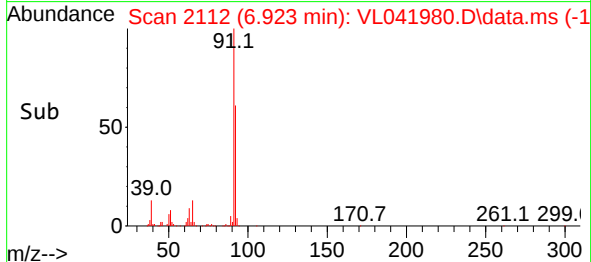
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 24610
Ion Ratio Lower Upper
91 100
92 59.3 47.4 71.0

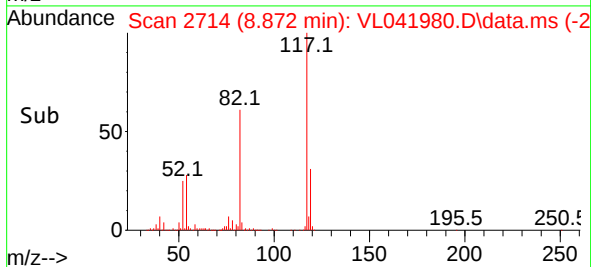
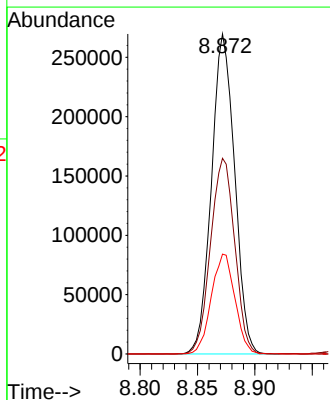
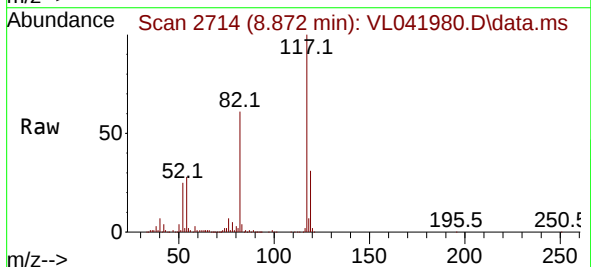
Manual Integrations
APPROVED

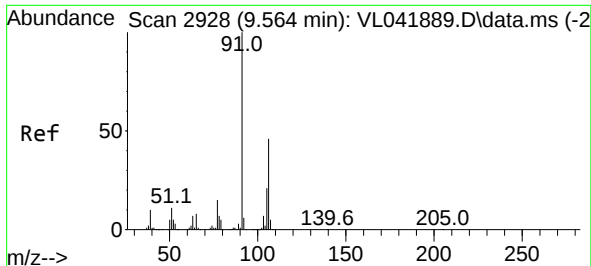
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.023 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

Tgt Ion:117 Resp: 379058
Ion Ratio Lower Upper
117 100
82 63.7 54.2 81.4
119 31.8 25.0 37.6





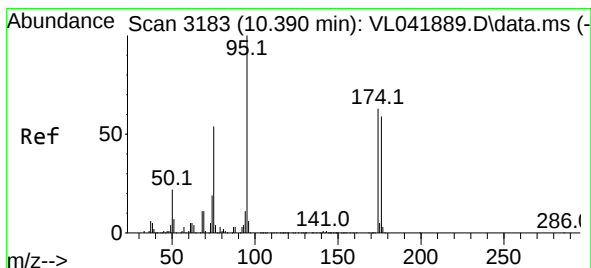
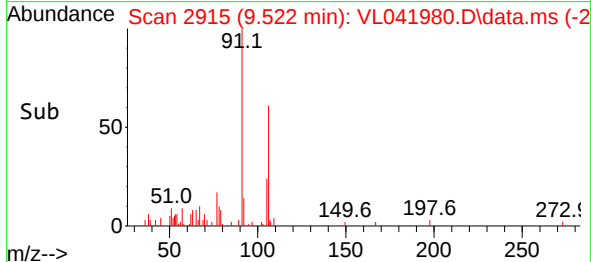
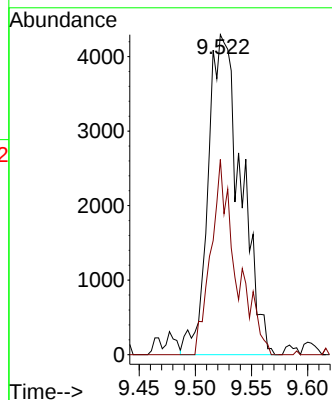
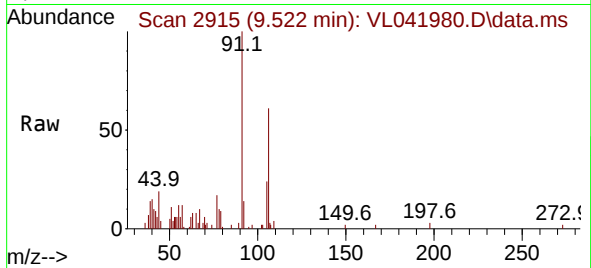
#59
m/p-Xylene
Concen: 0.185 ppbv m
RT: 9.522 min Scan# 2915
Delta R.T. -0.042 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 8790
Ion Ratio Lower Upper
91 100
106 0.0 36.0 54.0

Manual Integrations
APPROVED

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



#68
1-Bromo-4-Fluorobenzene
Concen: 9.859 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.019 min
Lab File: VL041980.D
Acq: 10 Feb 2025 11:02

Tgt Ion: 95 Resp: 294361
Ion Ratio Lower Upper
95 100
174 61.1 49.0 73.4
175 4.7 3.8 5.8

