

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082625\
 Data File : VX047527.D
 Acq On : 26 Aug 2025 11:58
 Operator : JC/MD
 Sample : Q2909-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 4065

Quant Time: Aug 27 01:33:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 08/27/2025
 Supervised By :Mahesh Dadoda 08/27/2025

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	182194	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	359856	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	321605	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	155364	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	147564	57.871	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 115.740%			
35) Dibromofluoromethane	5.397	113	124409	53.269	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.540%			
50) Toluene-d8	8.653	98	445727	53.395	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.800%			
62) 4-Bromofluorobenzene	11.079	95	169388	54.988	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.980%			
Target Compounds					Qvalue	
10) Methyl Iodide	2.471	142	18537	4.807	ug/l	95
16) Acetone	2.392	43	509222	531.300	ug/l	100
18) Methyl Acetate	2.721	43	36992	14.894	ug/l #	80
20) Methylene Chloride	2.806	84	14168	5.582	ug/l	98
25) 2-Butanone	4.587	43	25714	20.485	ug/l	94
37) Ethyl Acetate	4.745	43	10238	2.675	ug/l #	92
39) Methylcyclohexane	7.385	83	13977	3.039	ug/l	95
43) Isopropyl Acetate	6.355	43	20245	3.682	ug/l #	76
51) 4-Methyl-2-Pentanone	8.568	43	24306m	7.682	ug/l	
52) Toluene	8.720	92	7028423	1030.726	ug/l	92
67) Ethyl Benzene	10.195	91	178896	13.600	ug/l	98
68) m/p-Xylenes	10.299	106	272462	55.550	ug/l	98
69) o-Xylene	10.640	106	116621	24.707	ug/l	99
73) Isopropylbenzene	10.964	105	28838	2.372	ug/l	100
78) n-propylbenzene	11.305	91	98460	6.781	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	122528	12.249	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	474225	47.405	ug/l	99
85) sec-Butylbenzene	11.890	105	65461	5.292	ug/l	89
86) p-Isopropyltoluene	12.006	119	37769	3.608	ug/l	96
89) n-Butylbenzene	12.329	91	135554	13.923	ug/l #	53

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

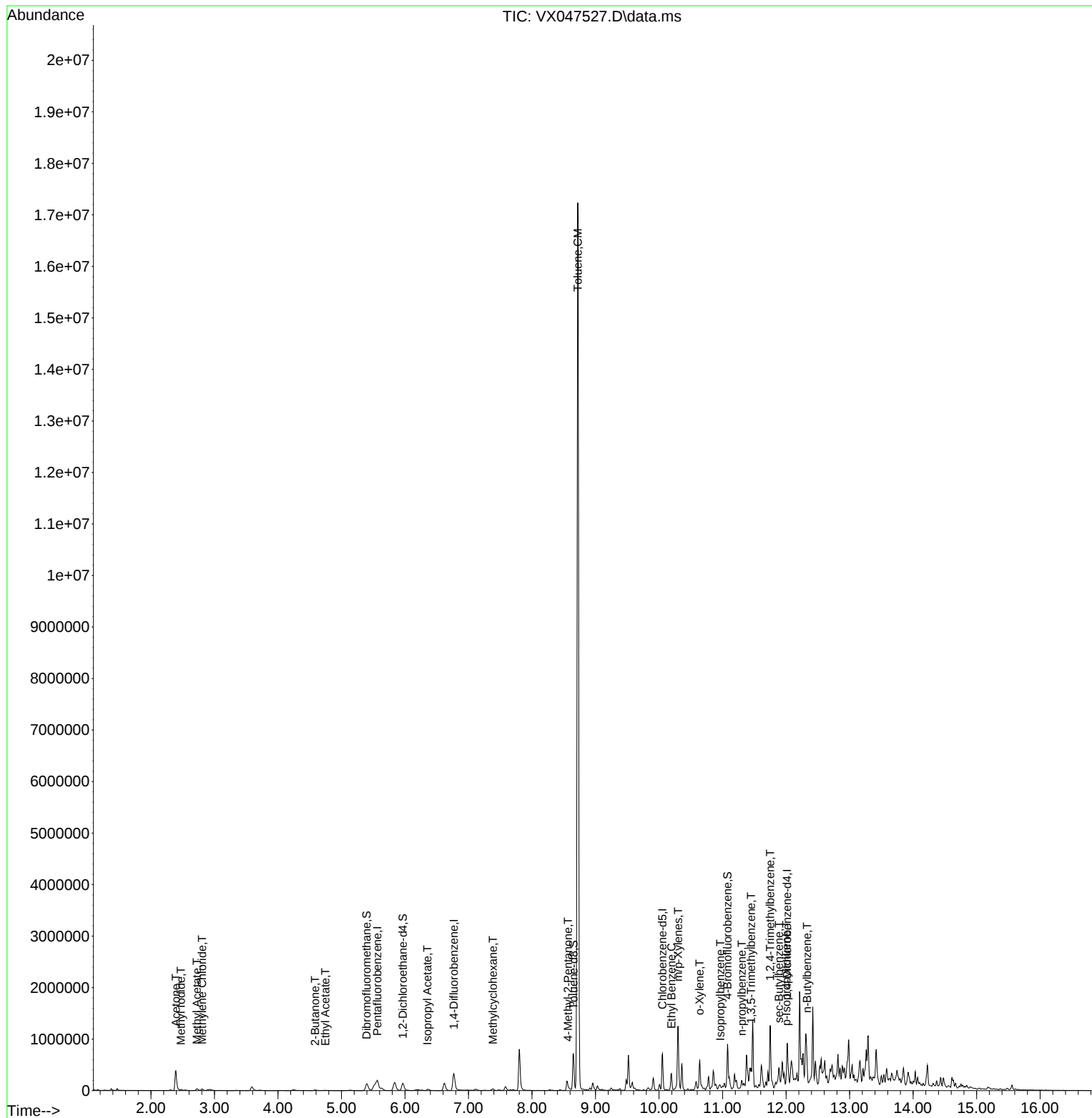
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082625\
Data File : VX047527.D
Acq On : 26 Aug 2025 11:58
Operator : JC/MD
Sample : Q2909-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

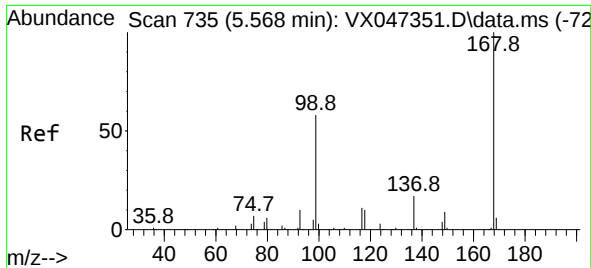
Instrument :
MSVOA_X
ClientSampleId :
4065

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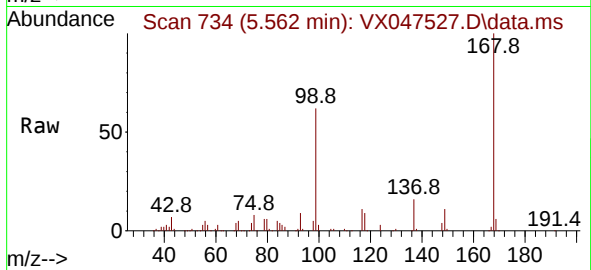
Quant Time: Aug 27 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.006 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

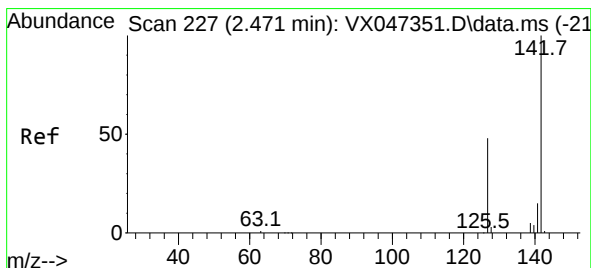
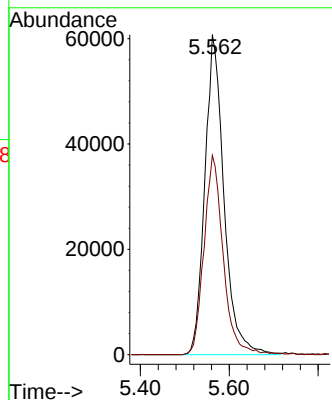
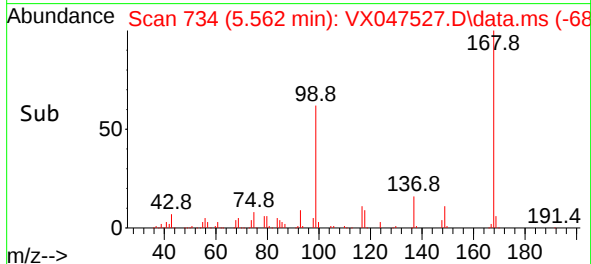
Instrument :
MSVOA_X
ClientSampleId :
4065



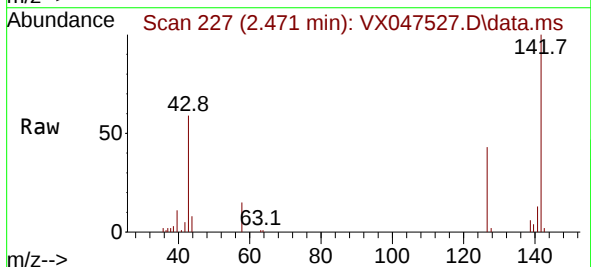
Tgt Ion:168 Resp: 182194
Ion Ratio Lower Upper
168 100
99 62.3 47.9 71.9

Manual Integrations
APPROVED

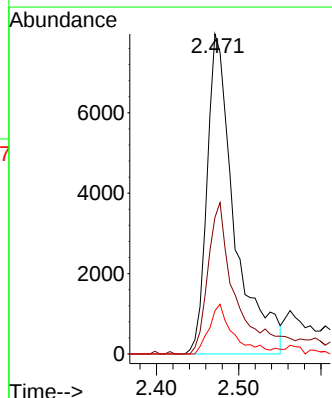
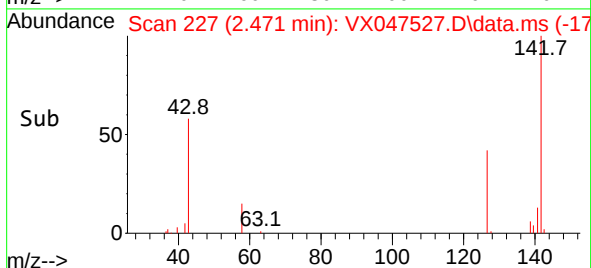
Reviewed By :John Carlone 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025

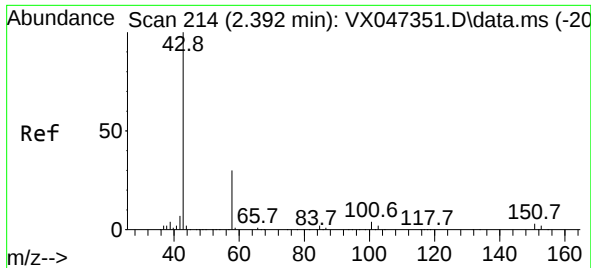


#10
Methyl Iodide
Concen: 4.807 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58



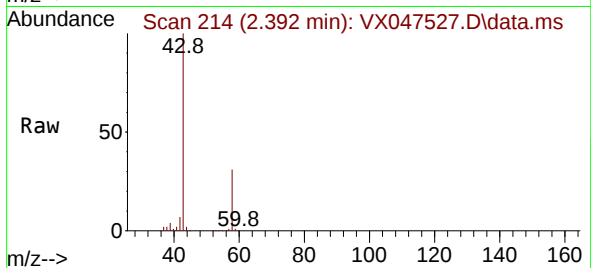
Tgt Ion:142 Resp: 18537
Ion Ratio Lower Upper
142 100
127 48.8 36.1 54.1
141 13.5 11.1 16.7





#16
Acetone
Concen: 531.300 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

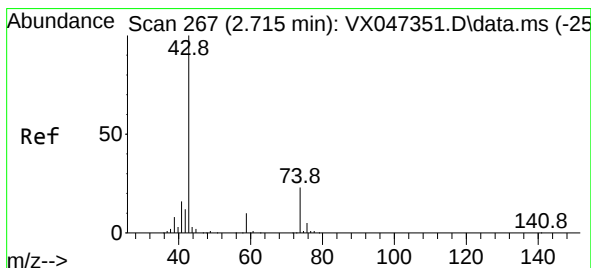
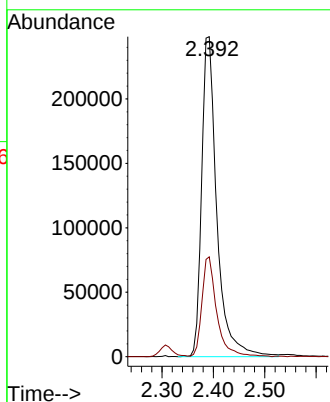
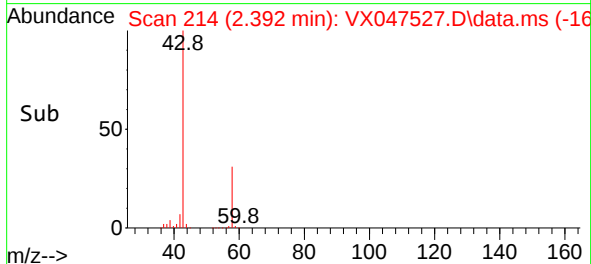
Instrument :
MSVOA_X
ClientSampleId :
4065



Tgt Ion: 43 Resp: 50922
Ion Ratio Lower Upper
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58 31.1 24.8 37.2

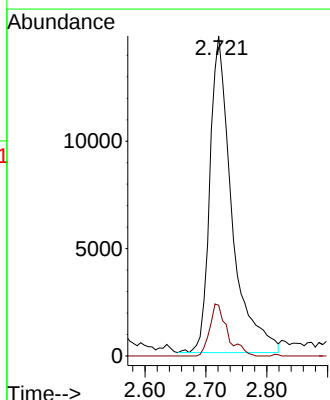
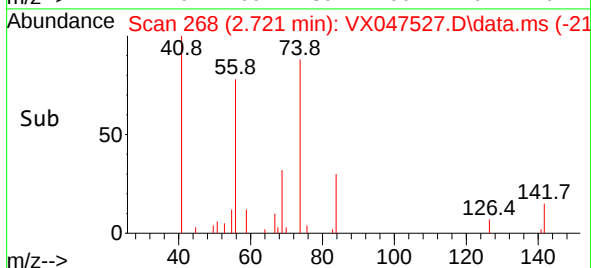
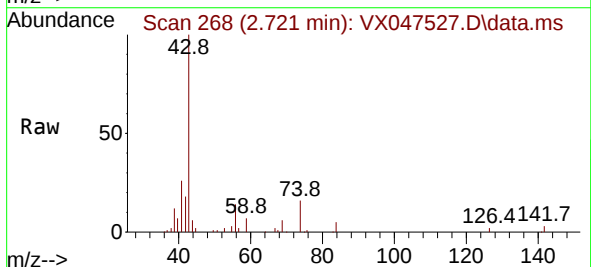
Manual Integrations
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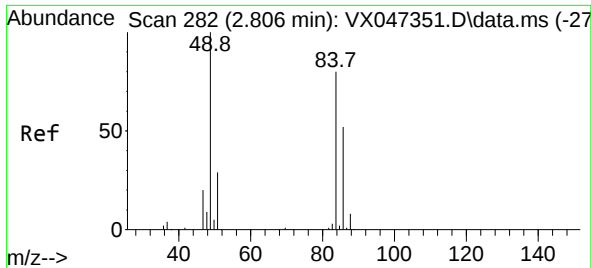
Reviewed By :John Carlone 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#18
Methyl Acetate
Concen: 14.894 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.006 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

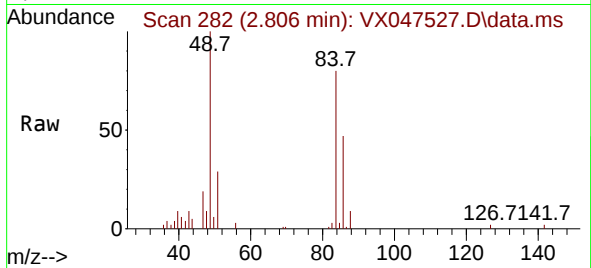
Tgt Ion: 43 Resp: 36992
Ion Ratio Lower Upper
43 100
74 13.3 18.4 27.6#





#20
Methylene Chloride
Concen: 5.582 ug/l
RT: 2.806 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

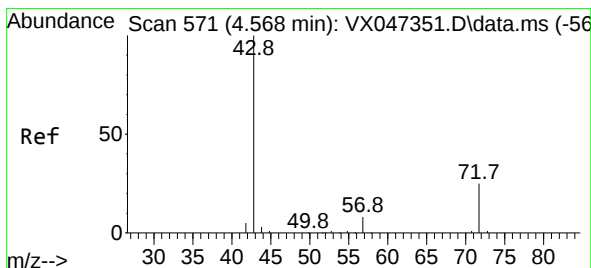
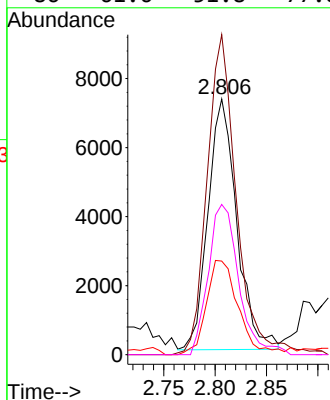
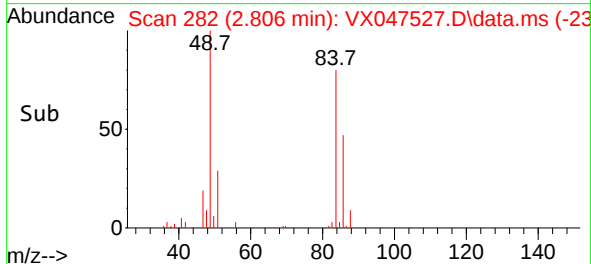
Instrument :
MSVOA_X
ClientSampleId :
4065



Tgt Ion: 84 Resp: 1416
Ion Ratio Lower Upper
84 100
49 127.1 100.1 150.1
51 37.4 29.5 44.3
86 61.6 51.8 77.8

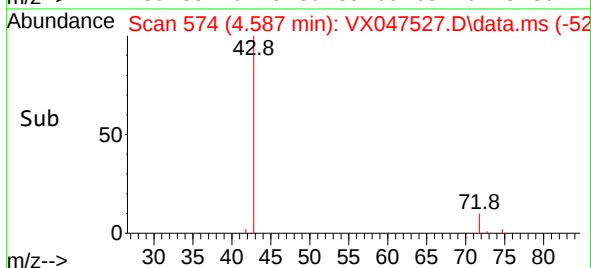
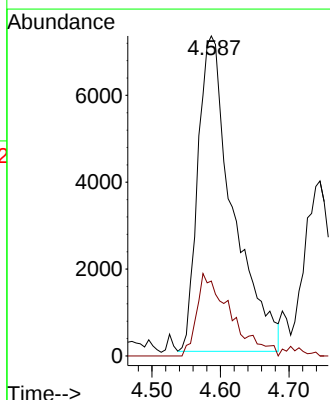
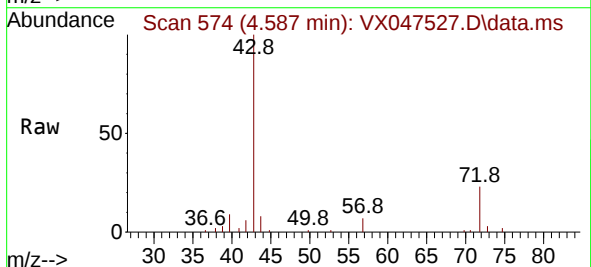
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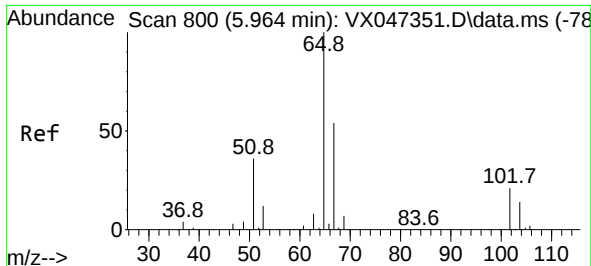
Reviewed By :John Carlone 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#25
2-Butanone
Concen: 20.485 ug/l
RT: 4.587 min Scan# 574
Delta R.T. 0.018 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

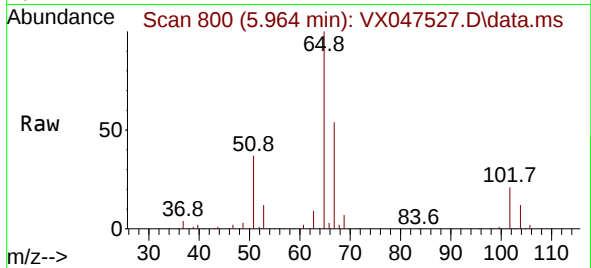
Tgt Ion: 43 Resp: 25714
Ion Ratio Lower Upper
43 100
72 22.0 19.8 29.8





#33
 1,2-Dichloroethane-d4
 Concen: 57.871 ug/l
 RT: 5.964 min Scan# 800
 Delta R.T. 0.000 min
 Lab File: VX047527.D
 Acq: 26 Aug 2025 11:58

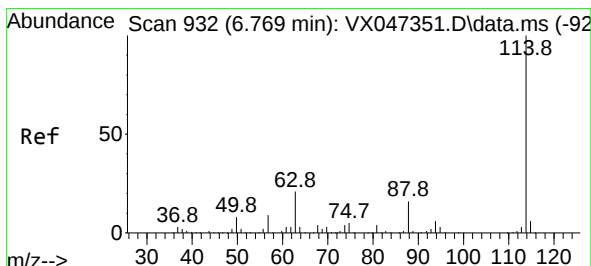
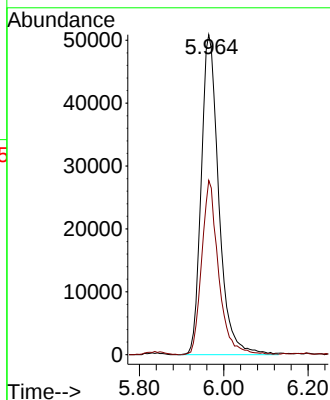
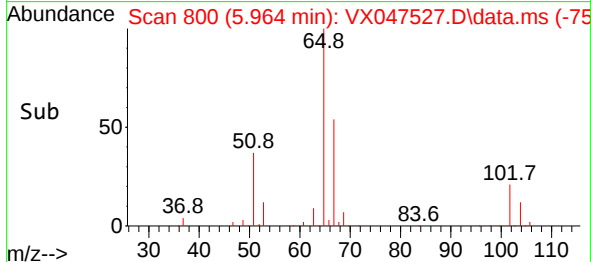
Instrument :
 MSVOA_X
 ClientSampleId :
 4065



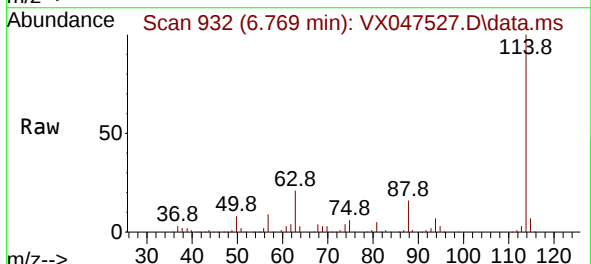
Tgt Ion: 65 Resp: 147564
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.0

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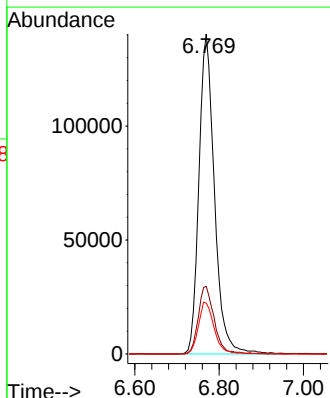
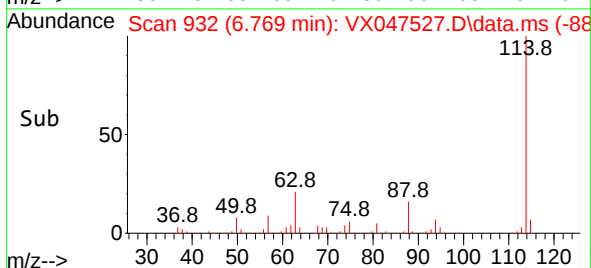
Reviewed By :John Carlone 08/27/2025
 Supervised By :Mahesh Dadoda 08/27/2025

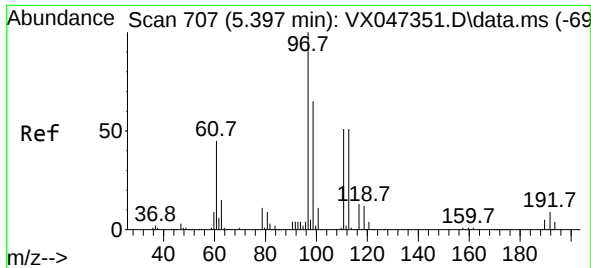


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 932
 Delta R.T. 0.000 min
 Lab File: VX047527.D
 Acq: 26 Aug 2025 11:58



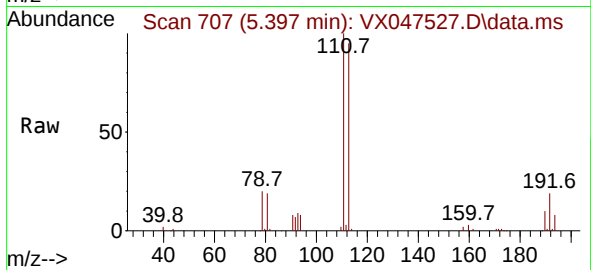
Tgt Ion:114 Resp: 359856
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 42.4
 88 15.9 0.0 33.0





#35
Dibromofluoromethane
Concen: 53.269 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

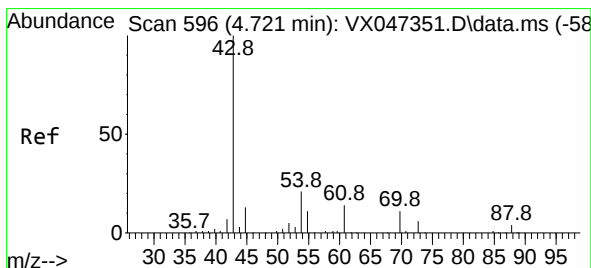
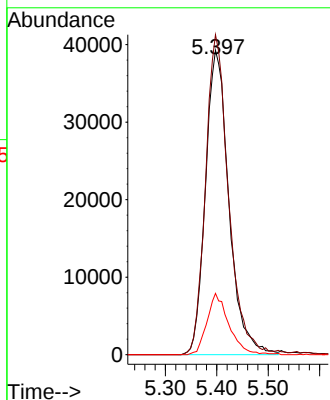
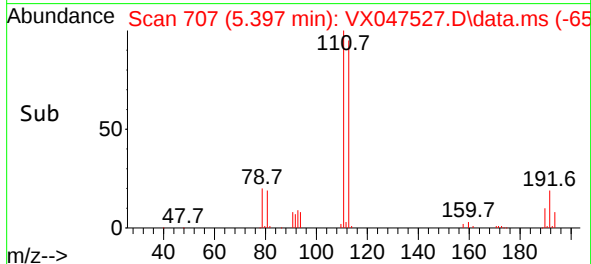
Instrument :
MSVOA_X
ClientSampleId :
4065



Tgt Ion: 113 Resp: 124409
Ion Ratio Lower Upper
113 100
111 102.9 81.4 122.2
192 18.9 14.1 21.1

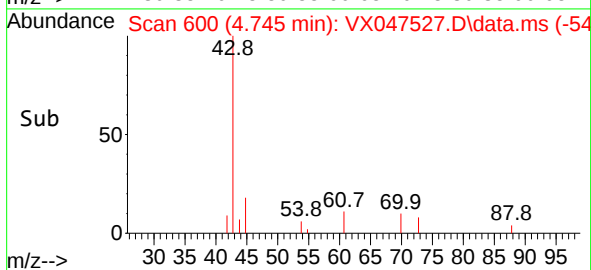
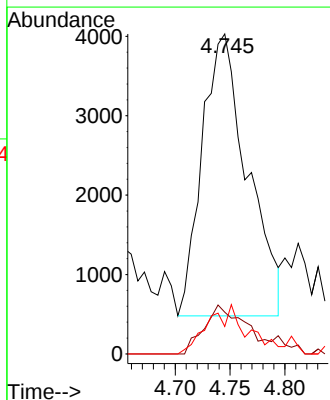
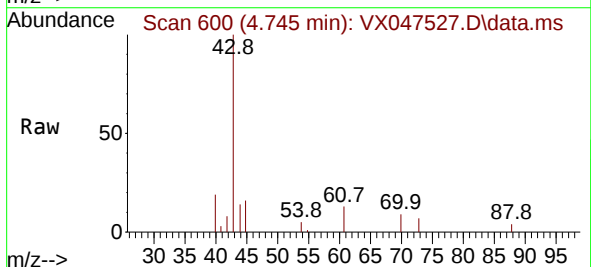
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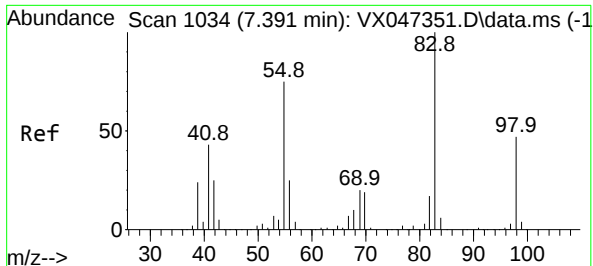
Reviewed By :John Carlone 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#37
Ethyl Acetate
Concen: 2.675 ug/l
RT: 4.745 min Scan# 600
Delta R.T. 0.025 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

Tgt Ion: 43 Resp: 10238
Ion Ratio Lower Upper
43 100
61 16.2 9.4 14.2#
70 7.4 7.0 10.6





#39

Methylcyclohexane

Concen: 3.039 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX047527.D

Acq: 26 Aug 2025 11:58

Instrument :

MSVOA_X

ClientSampleId :

4065

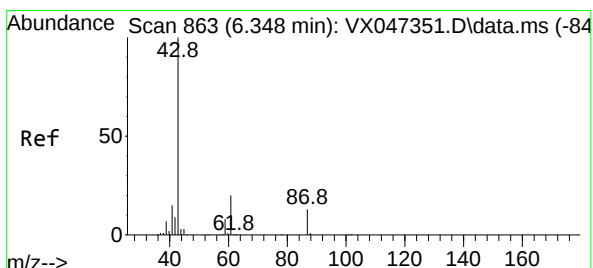
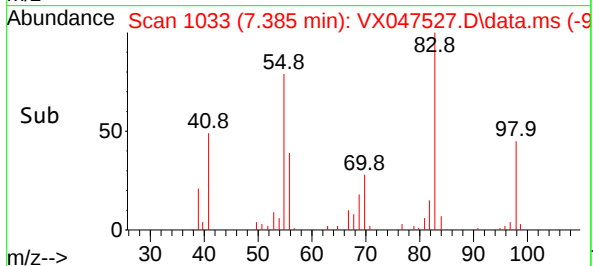
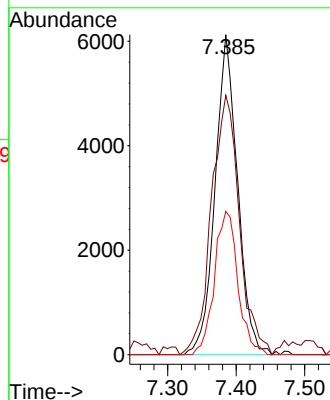
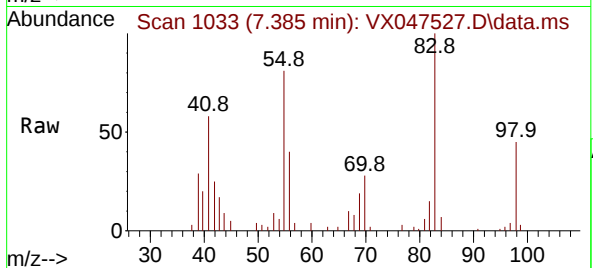
Tgt Ion:	83	Resp:	1397
Ion	Ratio	Lower	Upper
83	100		
55	81.1	60.0	90.0
98	47.6	37.2	55.8

Manual Integrations

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Supervised By :Mahesh Dadoda 08/27/2025



#43

Isopropyl Acetate

Concen: 3.682 ug/l

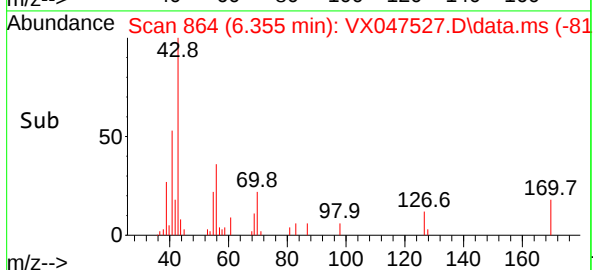
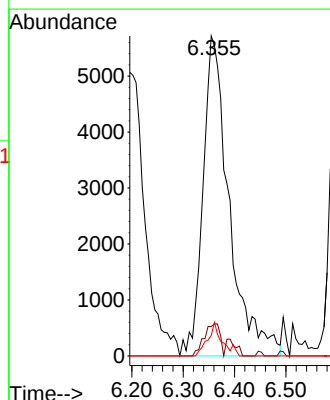
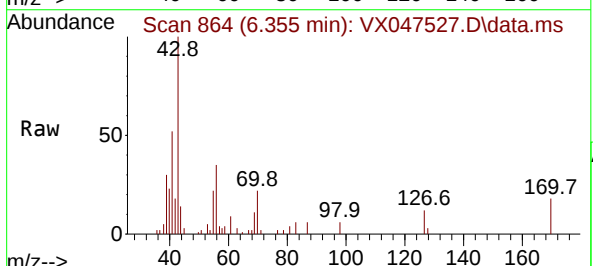
RT: 6.355 min Scan# 864

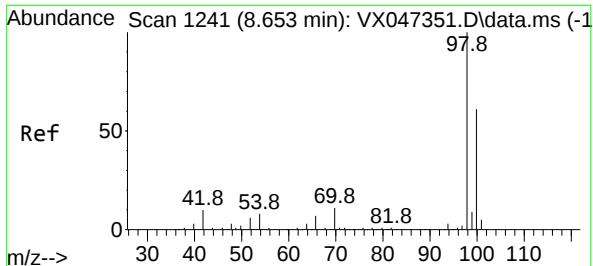
Delta R.T. 0.006 min

Lab File: VX047527.D

Acq: 26 Aug 2025 11:58

Tgt Ion:	43	Resp:	20245
Ion	Ratio	Lower	Upper
43	100		
61	6.1	15.4	23.0#
87	5.8	10.2	15.4#





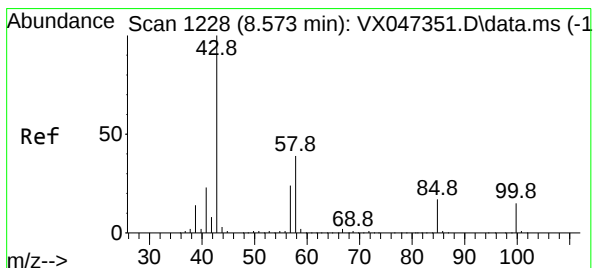
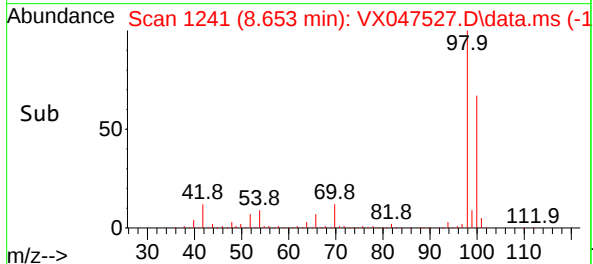
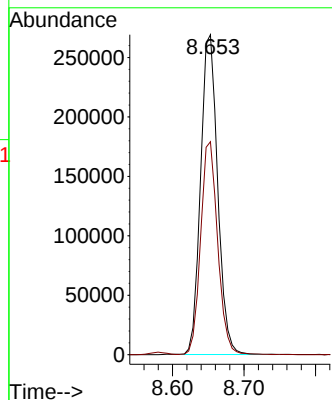
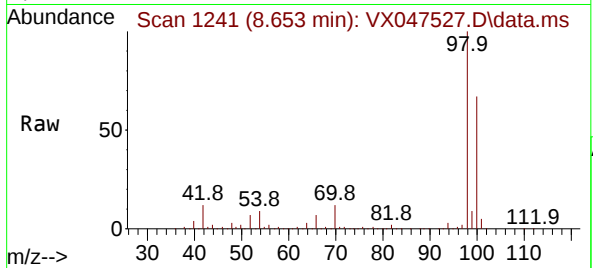
#50
Toluene-d8
Concen: 53.395 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
4065

Tgt Ion: 98 Resp: 44572
Ion Ratio Lower Upper
98 100
100 66.2 53.9 80.9

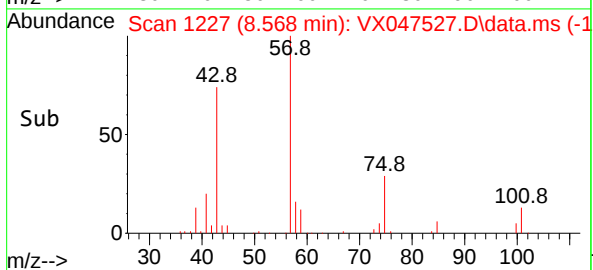
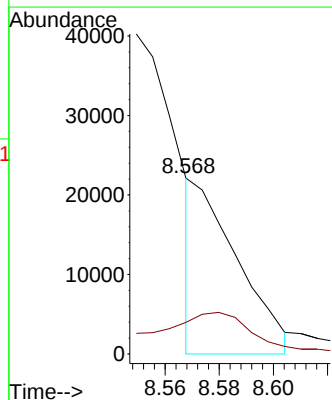
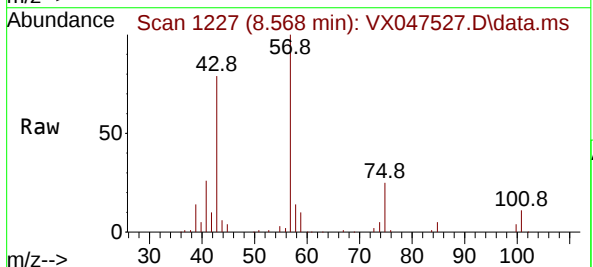
Manual Integrations
APPROVED

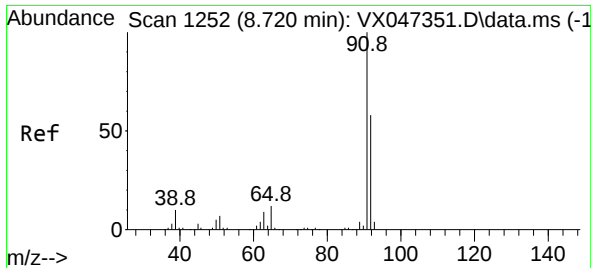
Reviewed By :John Carlone 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#51
4-Methyl-2-Pentanone
Concen: 7.682 ug/l m
RT: 8.568 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

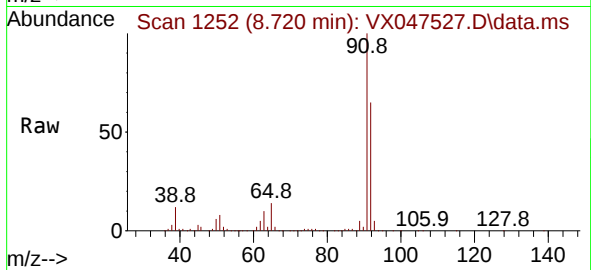
Tgt Ion: 43 Resp: 24306
Ion Ratio Lower Upper
43 100
58 0.0 31.2 46.8#





#52
Toluene
Concen: 1030.726 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

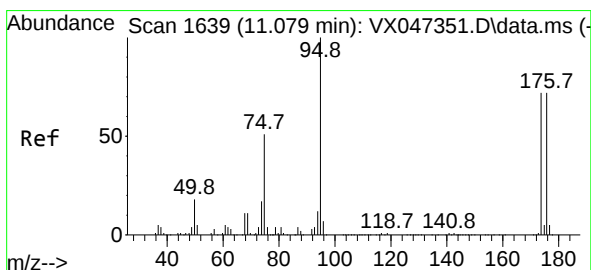
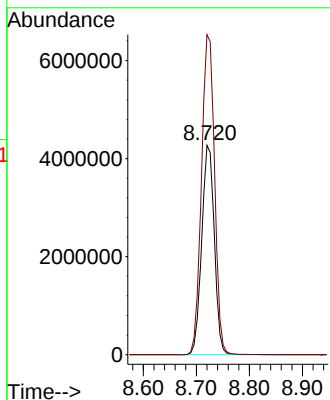
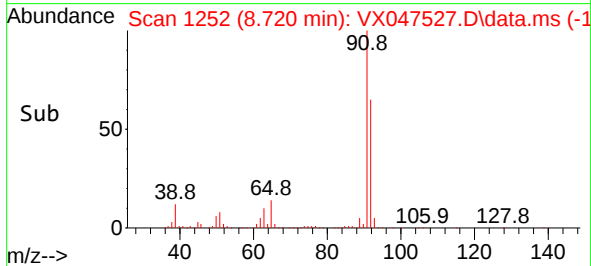
Instrument :
MSVOA_X
ClientSampleId :
4065



Tgt Ion: 92 Resp: 702842
Ion Ratio Lower Upper
92 100
91 158.9 136.3 204.5

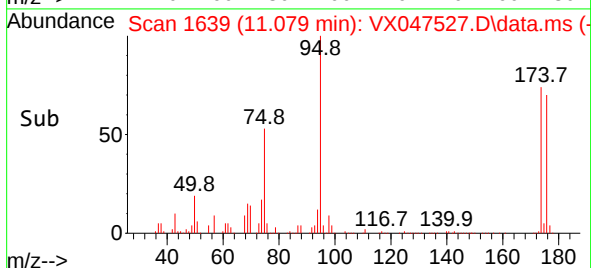
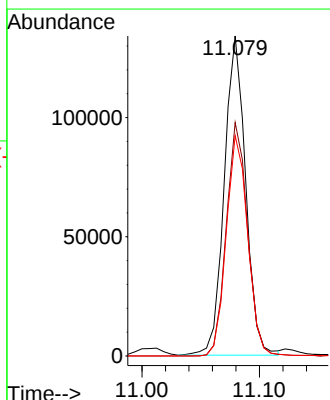
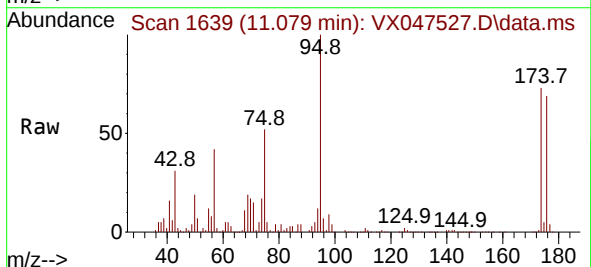
Manual Integrations
APPROVED

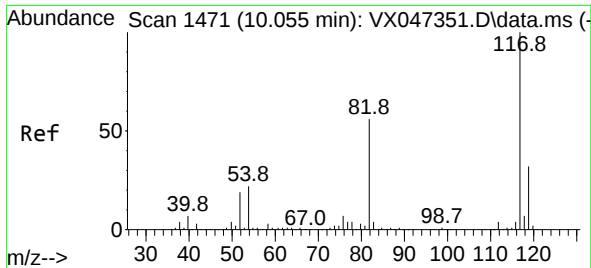
Reviewed By :John Carlone 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#62
4-Bromofluorobenzene
Concen: 54.988 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

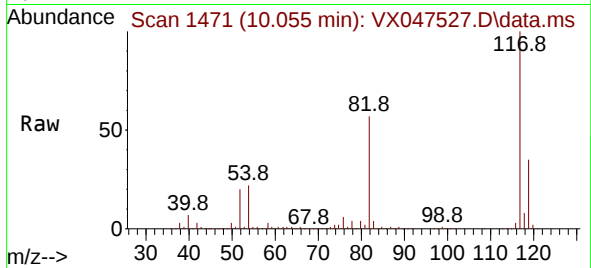
Tgt Ion: 95 Resp: 169388
Ion Ratio Lower Upper
95 100
174 72.7 0.0 148.0
176 69.6 0.0 145.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

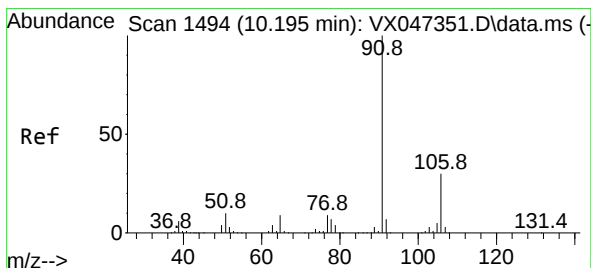
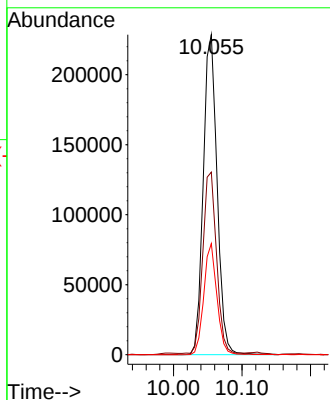
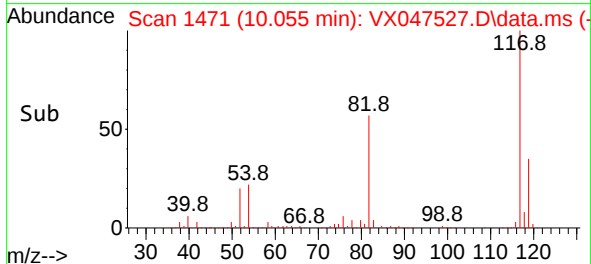
Instrument :
MSVOA_X
ClientSampleId :
4065



Tgt Ion:117 Resp: 321609
Ion Ratio Lower Upper
117 100
82 57.0 45.0 67.4
119 34.7 25.8 38.8

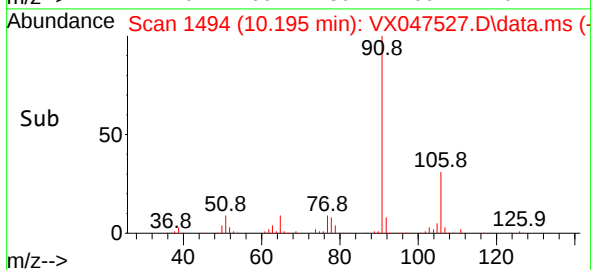
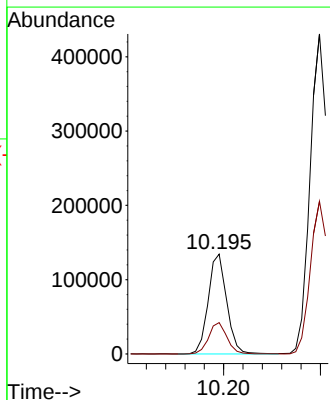
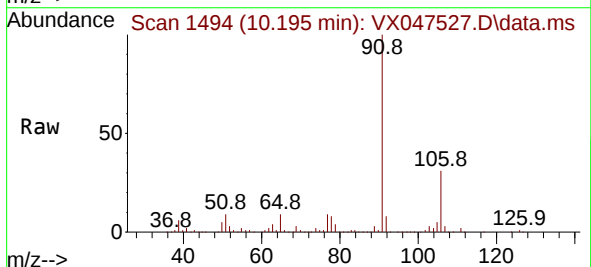
Manual Integrations
APPROVED

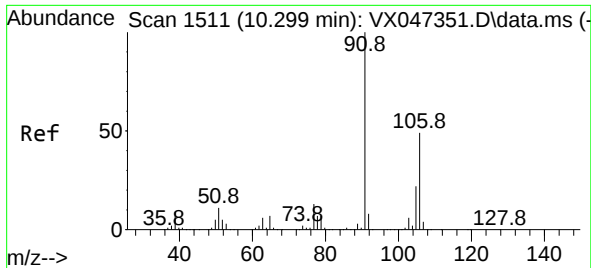
Reviewed By :John Carlone 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#67
Ethyl Benzene
Concen: 13.600 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

Tgt Ion: 91 Resp: 178896
Ion Ratio Lower Upper
91 100
106 31.4 24.4 36.6





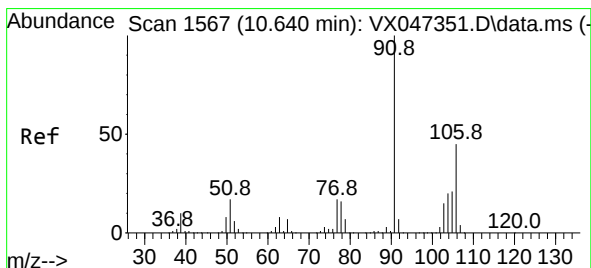
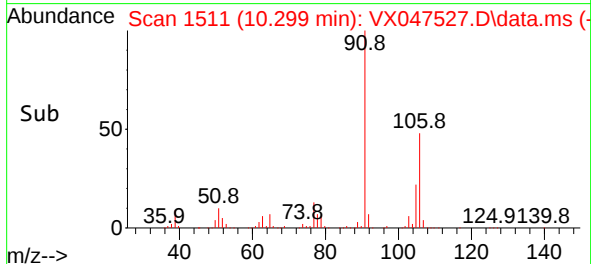
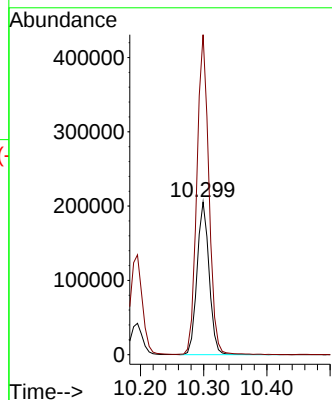
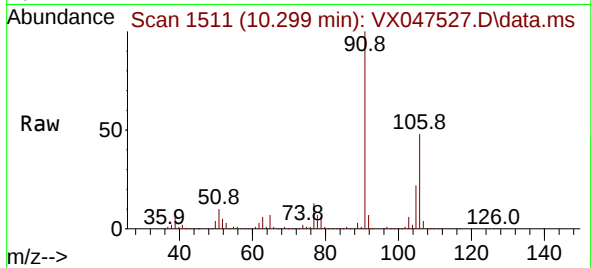
#68
m/p-Xylenes
Concen: 55.550 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
4065

Tgt Ion:106 Resp: 272462
Ion Ratio Lower Upper
106 100
91 209.5 164.7 247.1

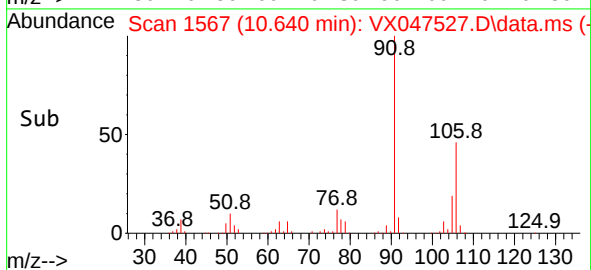
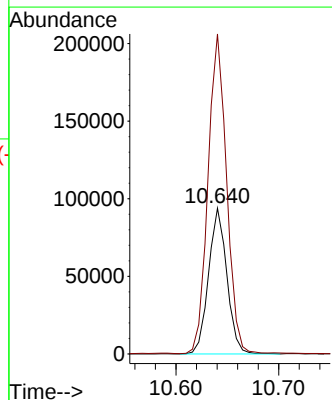
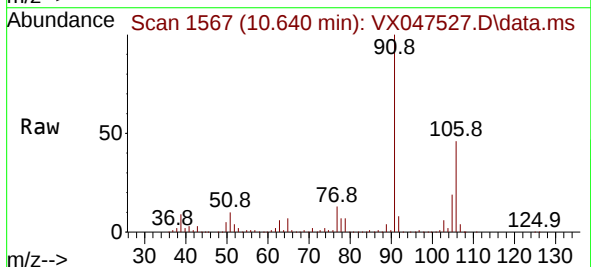
Manual Integrations
APPROVED

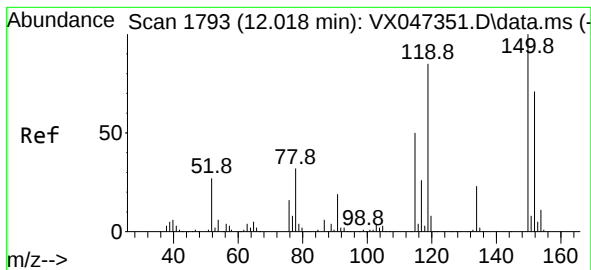
Reviewed By :John Carlone 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025



#69
o-Xylene
Concen: 24.707 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

Tgt Ion:106 Resp: 116621
Ion Ratio Lower Upper
106 100
91 222.0 110.6 331.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047527.D

Acq: 26 Aug 2025 11:58

Instrument :

MSVOA_X

ClientSampleId :

4065

Tgt Ion:152 Resp: 155364

Ion Ratio Lower Upper

152 100

115 63.2 44.6 133.8

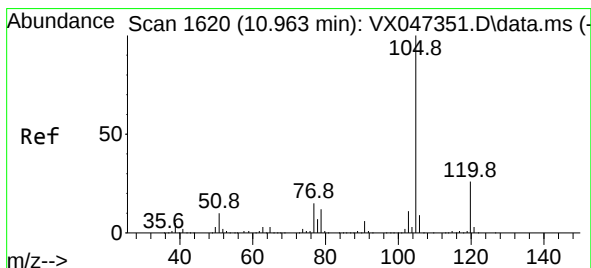
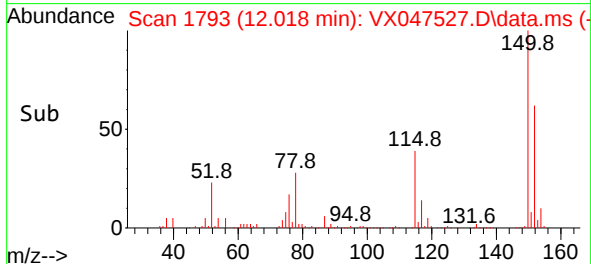
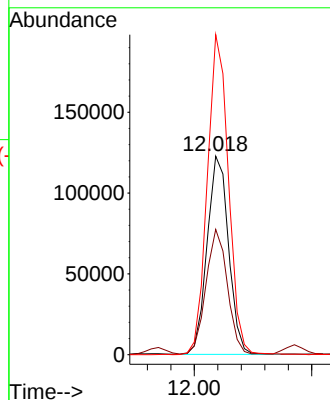
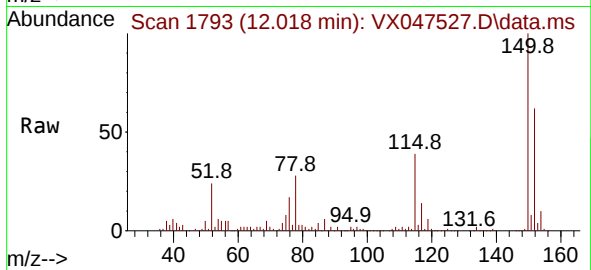
150 158.9 0.0 349.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/27/2025

Supervised By :Mahesh Dadoda 08/27/2025



#73

Isopropylbenzene

Concen: 2.372 ug/l

RT: 10.964 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX047527.D

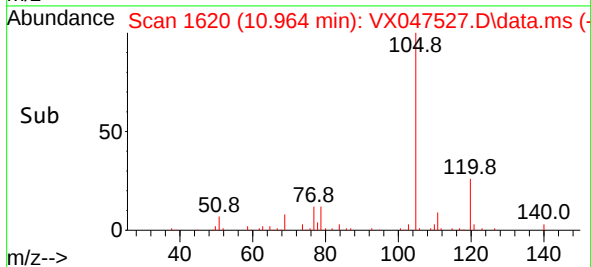
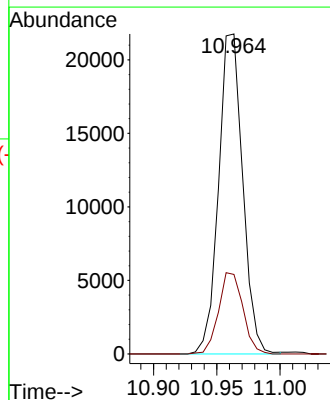
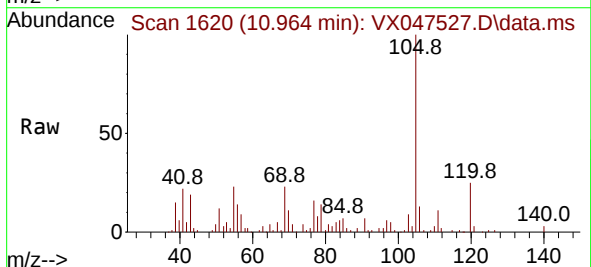
Acq: 26 Aug 2025 11:58

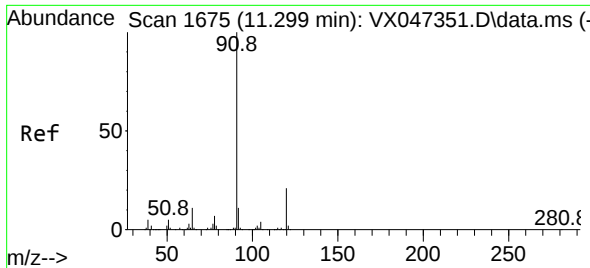
Tgt Ion:105 Resp: 28838

Ion Ratio Lower Upper

105 100

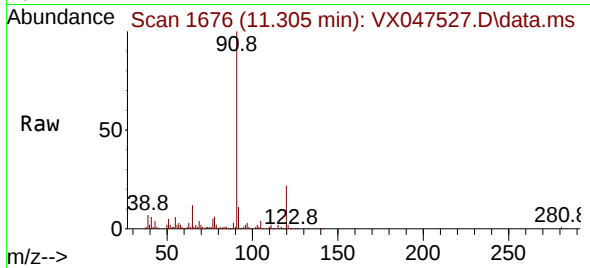
120 25.6 12.9 38.6





#78
n-propylbenzene
Concen: 6.781 ug/l
RT: 11.305 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58

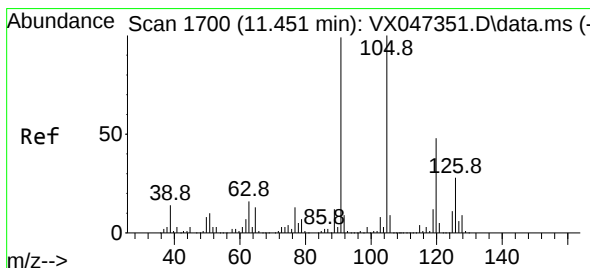
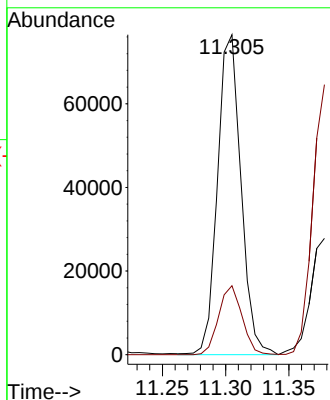
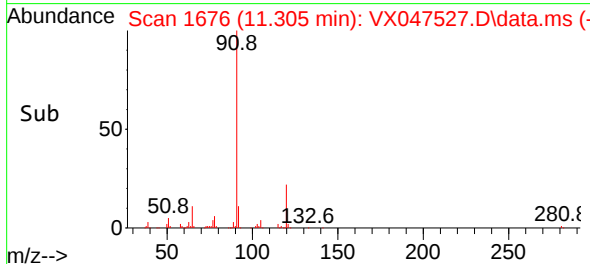
Instrument :
MSVOA_X
ClientSampleId :
4065



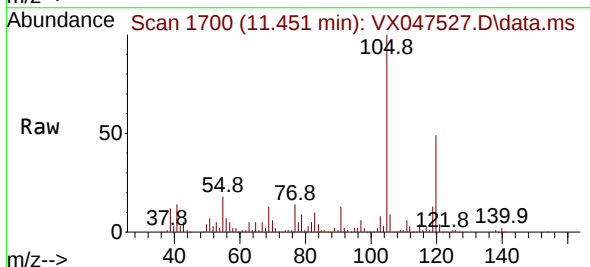
Tgt Ion: 91 Resp: 98460
Ion Ratio Lower Upper
91 100
120 21.5 11.0 33.0

Manual Integrations
APPROVED

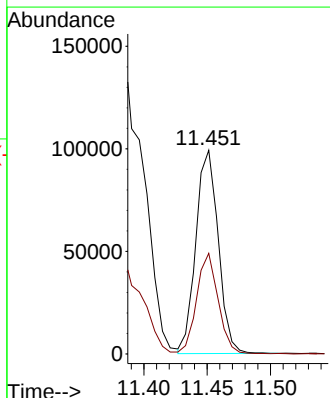
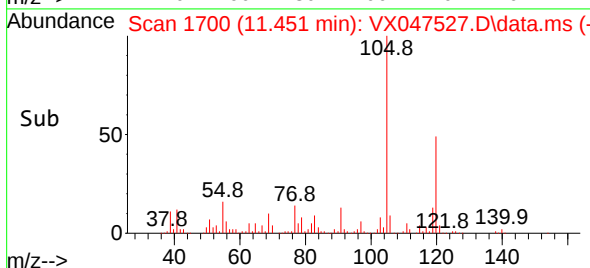
Reviewed By :John Carlone 08/27/2025
Supervised By :Mahesh Dadoda 08/27/2025

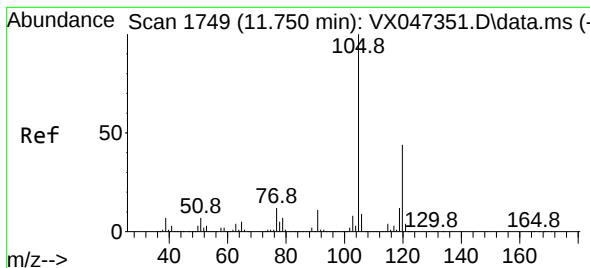


#80
1,3,5-Trimethylbenzene
Concen: 12.249 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047527.D
Acq: 26 Aug 2025 11:58



Tgt Ion:105 Resp: 122528
Ion Ratio Lower Upper
105 100
120 48.0 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 47.405 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX047527.D

Acq: 26 Aug 2025 11:58

Instrument :

MSVOA_X

ClientSampleId :

4065

Tgt Ion:105 Resp: 474225

Ion Ratio Lower Upper

105 100

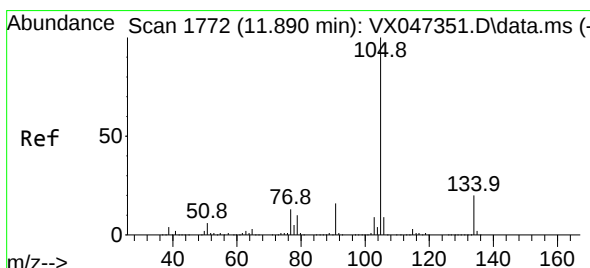
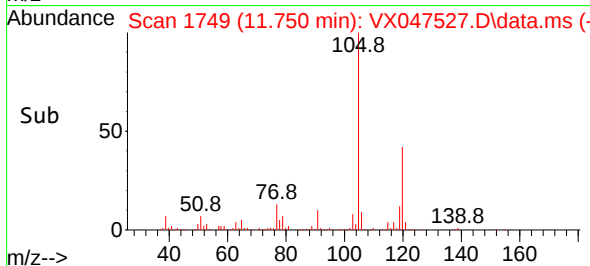
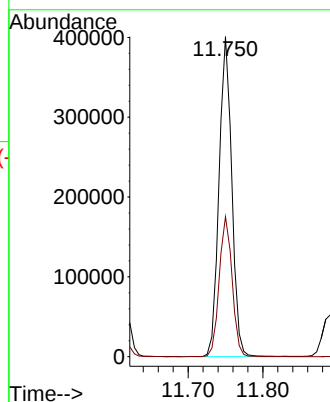
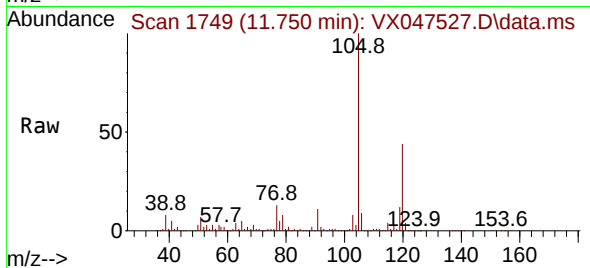
120 44.3 21.9 65.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/27/2025

Supervised By :Mahesh Dadoda 08/27/2025



#85

sec-Butylbenzene

Concen: 5.292 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX047527.D

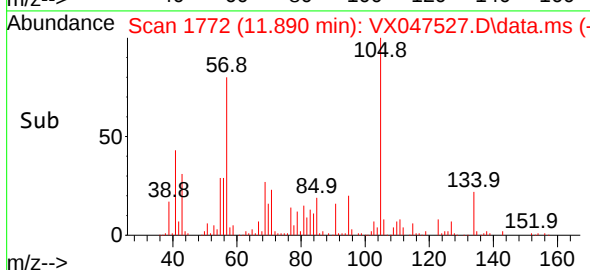
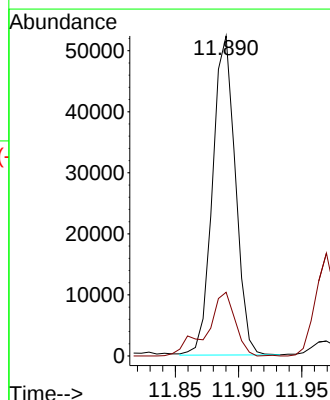
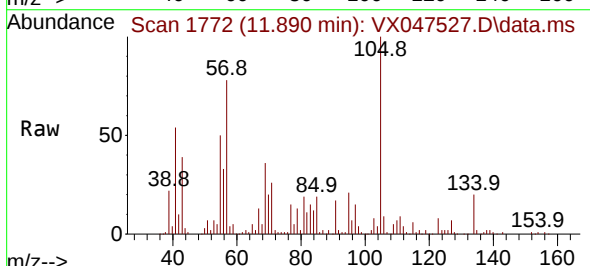
Acq: 26 Aug 2025 11:58

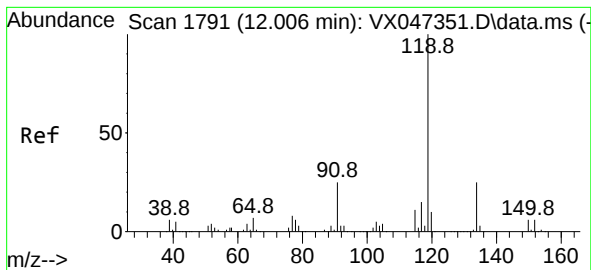
Tgt Ion:105 Resp: 65461

Ion Ratio Lower Upper

105 100

134 24.8 9.8 29.5





#86

p-Isopropyltoluene

Concen: 3.608 ug/l

RT: 12.006 min Scan# 119

Delta R.T. 0.000 min

Lab File: VX047527.D

Acq: 26 Aug 2025 11:58

Instrument :

MSVOA_X

ClientSampleId :

4065

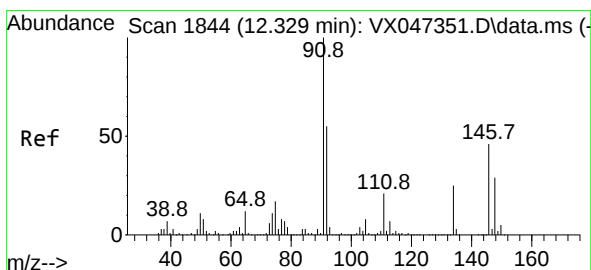
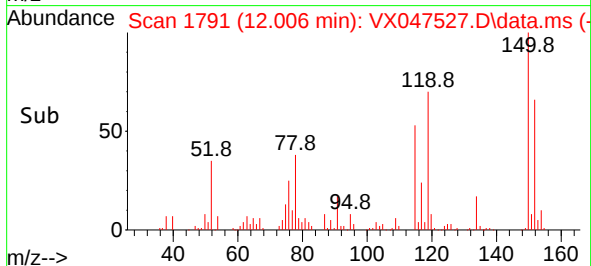
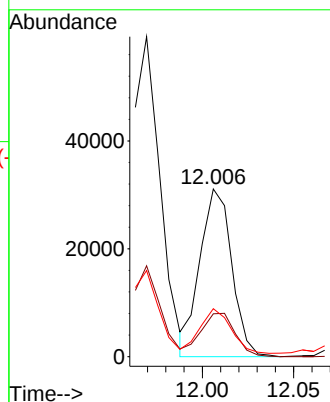
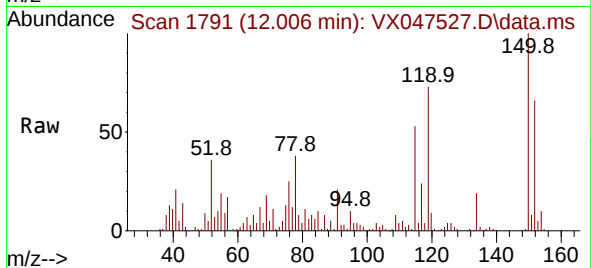
Tgt Ion:	119	Resp:	3776
Ion Ratio	Lower	Upper	
119	100		
134	28.3	12.8	38.4
91	25.8	12.4	37.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 08/27/2025

Supervised By :Mahesh Dadoda 08/27/2025



#89

n-Butylbenzene

Concen: 13.923 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047527.D

Acq: 26 Aug 2025 11:58

Tgt Ion:	91	Resp:	135554
Ion Ratio	Lower	Upper	
91	100		
92	39.6	27.2	81.5
134	77.4	12.6	37.8

