

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
 Data File : VX047444.D
 Acq On : 20 Aug 2025 15:47
 Operator : JC/MD
 Sample : Q2900-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MN-12C-081825

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

08/21/2025
 Supervised By :Mahesh
 Dadoda

08/22/2025

Quant Time: Aug 21 01:33:38 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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	210277	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	348314	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	344337	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	172936	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.983	65	187575	63.738	ug/l	0.02
Spiked Amount	50.000	Range	78 - 117	Recovery	= 127.480%#	
35) Dibromofluoromethane	5.397	113	149442	66.108	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 132.220%#	
50) Toluene-d8	8.659	98	449426	55.622	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 111.240%	
62) 4-Bromofluorobenzene	11.079	95	158726	53.234	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 106.460%	
Target Compounds						Qvalue
4) Vinyl Chloride	1.392	62	181760	60.053	ug/l #	75
12) 1,1-Dichloroethene	2.343	96	3525	1.331	ug/l	87
16) Acetone	2.392	43	4274	3.864	ug/l	91
17) Carbon Disulfide	2.544	76	10187	1.275	ug/l	99
21) trans-1,2-Dichloroethene	3.111	96	844474	300.521	ug/l	99
27) cis-1,2-Dichloroethene	4.507	96	1137746	347.626	ug/l	89
31) Cyclohexane	5.489	56	1434	0.303	ug/l #	84
39) Methylcyclohexane	7.391	83	1328	0.298	ug/l #	94
40) Benzene	6.056	78	32694755m	3060.961	ug/l	
44) Trichloroethene	7.135	130	739313	270.318	ug/l	99
52) Toluene	8.738	92	18918291	2866.322	ug/l #	1
64) Tetrachloroethene	9.275	164	469074	188.334	ug/l	99
67) Ethyl Benzene	10.195	91	15677494	1113.162	ug/l #	83
68) m/p-Xylenes	10.311	106	5798914	1104.240	ug/l	95
69) o-Xylene	10.647	106	4004397	792.368	ug/l	95
70) Styrene	10.665	104	6595733	772.418	ug/l	96
73) Isopropylbenzene	10.964	105	434411	32.100	ug/l	99
78) n-propylbenzene	11.305	91	242307	14.992	ug/l #	54
80) 1,3,5-Trimethylbenzene	11.451	105	975616	87.618	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	3793504	340.680	ug/l	98
86) p-Isopropyltoluene	12.012	119	63382	5.440	ug/l #	75

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

Manual Integrations

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Dadoda

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Abundance

TIC: VX047444.D\data.ms

Dadoda

08/22/2025

Time-->

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

5.8e+07

5.6e+07

5.4e+07

5.2e+07

5e+07

4.8e+07

4.6e+07

4.4e+07

4.2e+07

4e+07

3.8e+07

3.6e+07

3.4e+07

3.2e+07

3e+07

2.8e+07

2.6e+07

2.4e+07

2.2e+07

2e+07

1.8e+07

1.6e+07

1.4e+07

1.2e+07

1e+07

8000000

6000000

4000000

2000000

0

Vinyl Chloride,C

1,4-Dichloroethene,CM

Carbon Disulfide,T

trans-1,2-Dichloroethene,T

cis-1,2-Dichloroethene,T

Dibromodifluoromethane,S

Pentamethylbenzene,I

1,2-Dichloroethane-d4,S

1,4-Difluorobenzene,I

Trichloroethene,TM

Methylcyclohexane,T

Toluene-d8,S

Tetrachloroethene,T

Chlorobenzene-d5,I

Ethylbenzene,C

m,p-Xylenes,I

o-Xylene,T

Isopropylbenzene,T

4-Bromodifluorobenzene,S

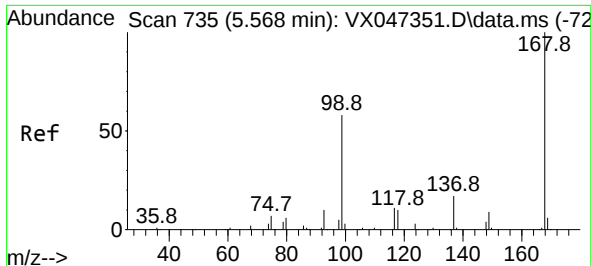
n-propylbenzene,T

1,3,5-Trimethylbenzene,T

1,2,4-Trimethylbenzene,T

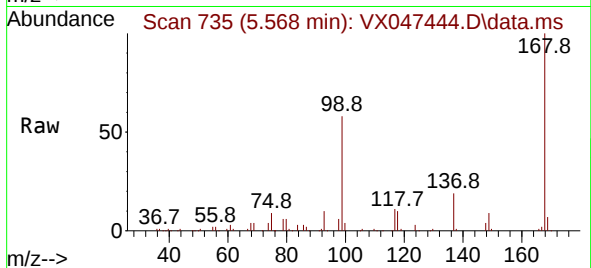
Diisopropylbenzene-d4,I

Propylbenzene,T



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825



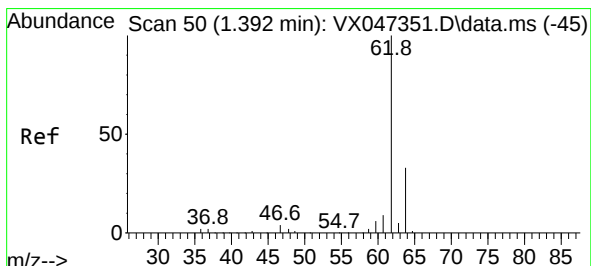
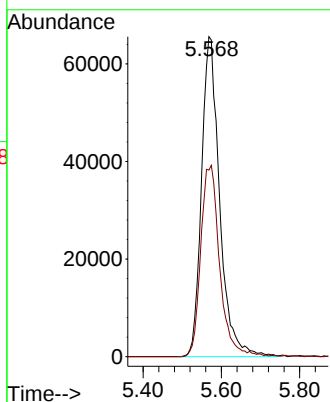
Tgt Ion:168 Resp: 21027
Ion Ratio Lower Upper
168 100
99 58.3 47.9 71.9

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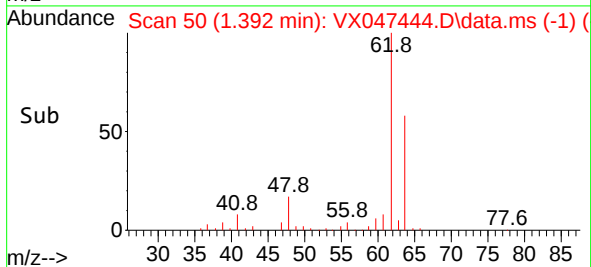
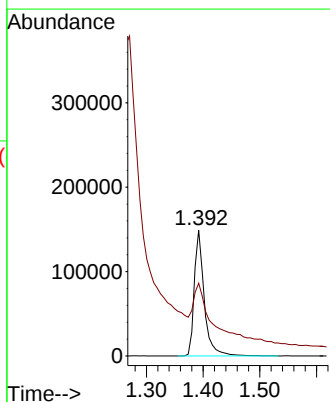
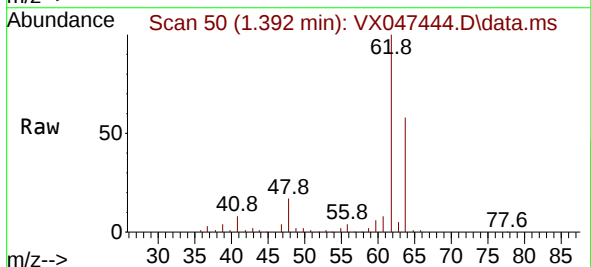
08/21/2025
Supervised By :Mahesh
Dadoda

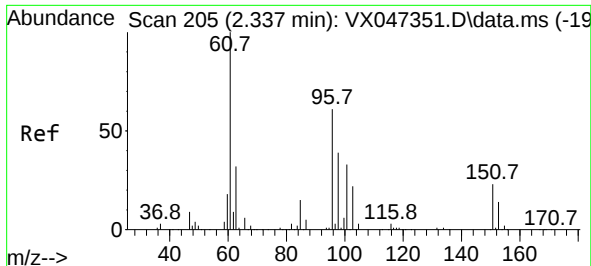
08/22/2025



#4
Vinyl Chloride
Concen: 60.053 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Tgt Ion: 62 Resp: 181760
Ion Ratio Lower Upper
62 100
64 47.5 26.5 39.7#





#12

1,1-Dichloroethene

Concen: 1.331 ug/l

RT: 2.343 min Scan# 205

Delta R.T. 0.006 min

Lab File: VX047444.D

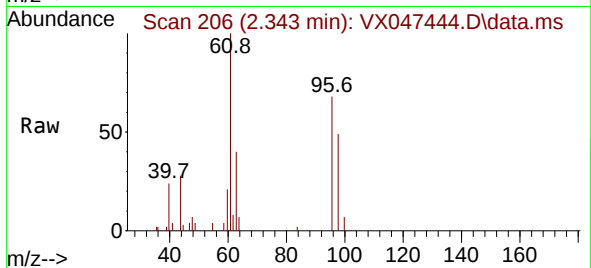
Acq: 20 Aug 2025 15:47

Instrument :

MSVOA_X

ClientSampleId :

MN-12C-081825



Tgt Ion:	96	Resp:	352
Ion	Ratio	Lower	Upper
96	100		
61	146.2	132.2	198.2
98	71.4	51.2	76.8

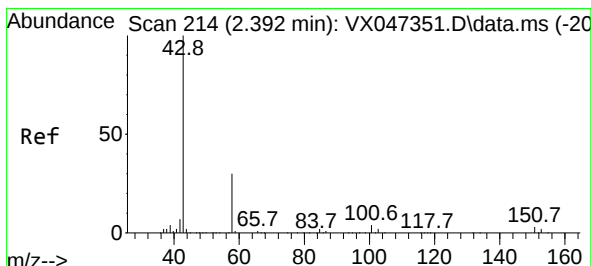
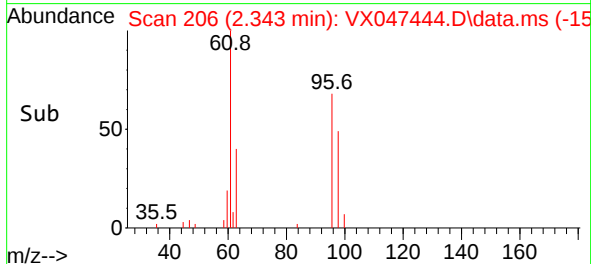
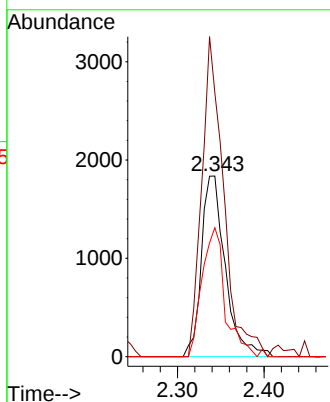
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#16

Acetone

Concen: 3.864 ug/l

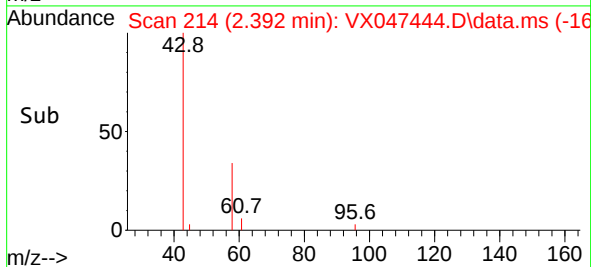
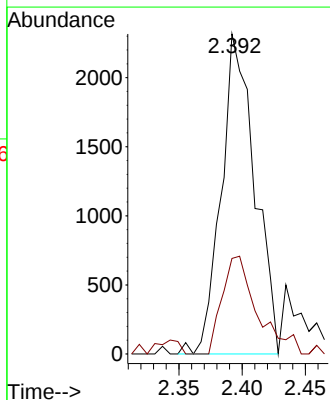
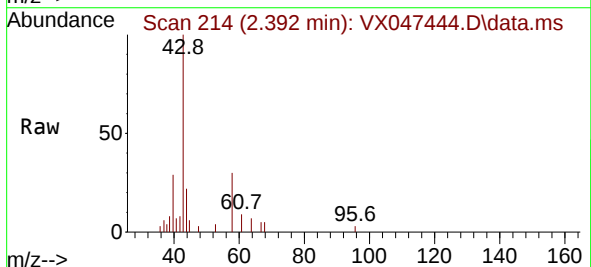
RT: 2.392 min Scan# 214

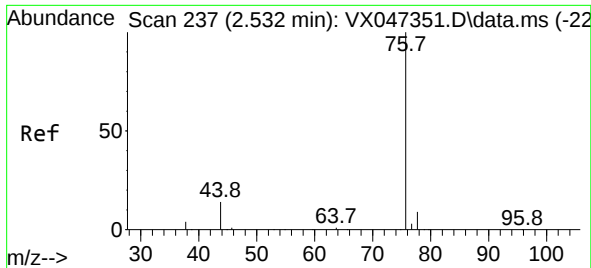
Delta R.T. 0.000 min

Lab File: VX047444.D

Acq: 20 Aug 2025 15:47

Tgt Ion:	43	Resp:	4274
Ion	Ratio	Lower	Upper
43	100		
58	25.9	24.8	37.2





#17
Carbon Disulfide
Concen: 1.275 ug/l
RT: 2.544 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825

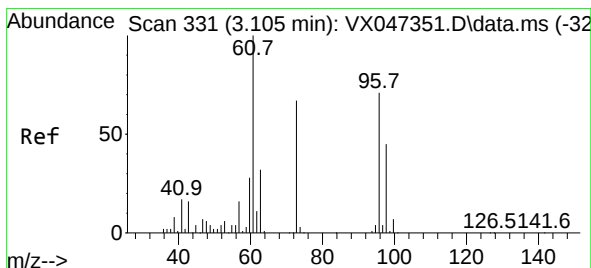
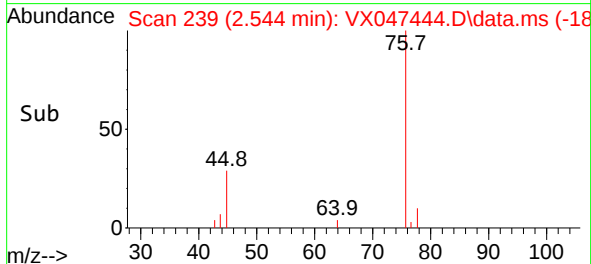
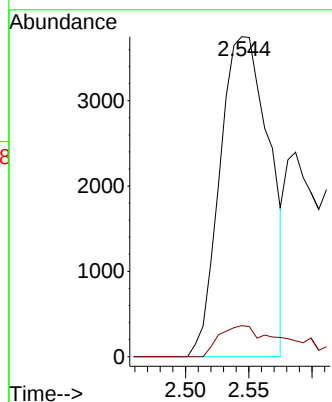
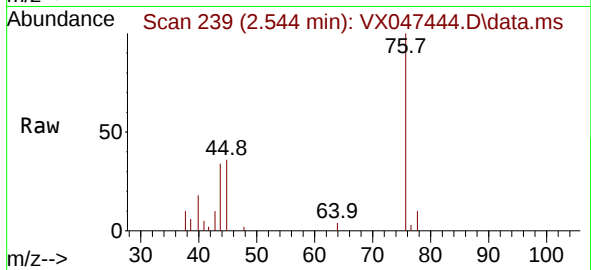
Tgt Ion: 76 Resp: 1018
Ion Ratio Lower Upper
76 100
78 9.4 7.2 10.8

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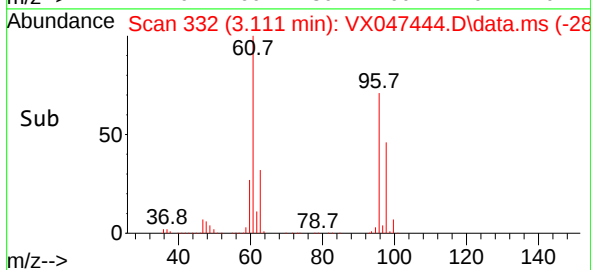
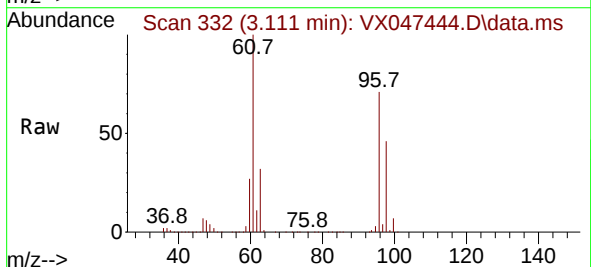
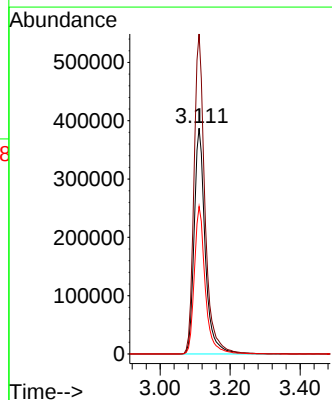
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Supervised By :Mahesh
Dadoda

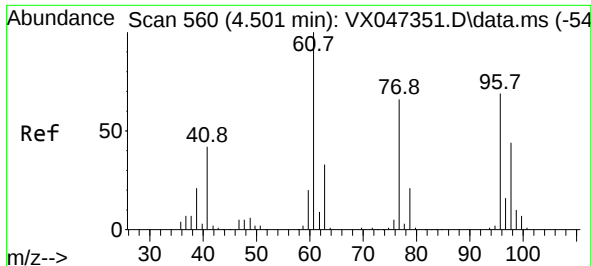
08/22/2025



#21
trans-1,2-Dichloroethene
Concen: 300.521 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Tgt Ion: 96 Resp: 844474
Ion Ratio Lower Upper
96 100
61 141.7 112.6 169.0
98 65.3 50.9 76.3





#27

cis-1,2-Dichloroethene

Concen: 347.626 ug/l

RT: 4.507 min Scan# 50

Delta R.T. 0.006 min

Lab File: VX047444.D

Acq: 20 Aug 2025 15:47

Instrument :

MSVOA_X

ClientSampleId :

MN-12C-081825

Tgt Ion: 96 Resp: 113774

Ion Ratio Lower Upper

96 100

61 129.2 0.0 296.6

98 64.5 0.0 130.4

Manual Integrations

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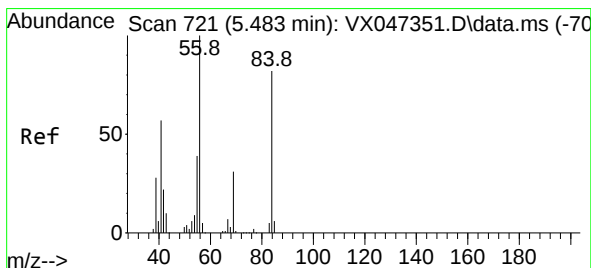
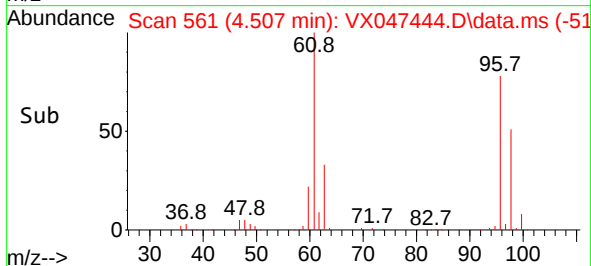
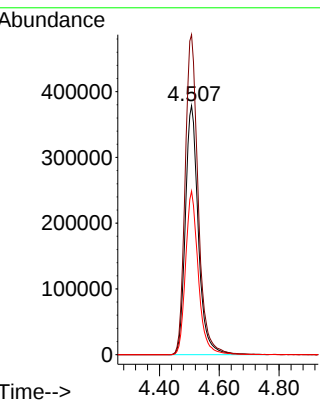
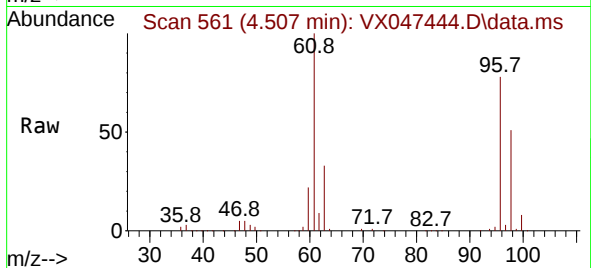
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#31

Cyclohexane

Concen: 0.303 ug/l

RT: 5.489 min Scan# 722

Delta R.T. 0.006 min

Lab File: VX047444.D

Acq: 20 Aug 2025 15:47

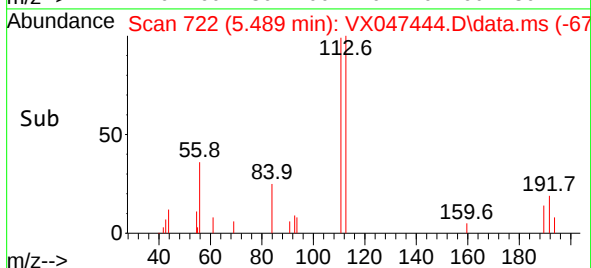
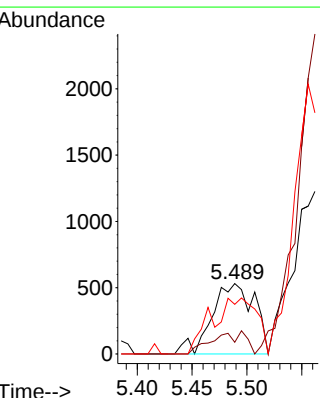
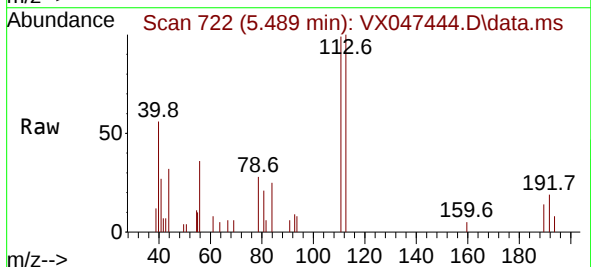
Tgt Ion: 56 Resp: 1434

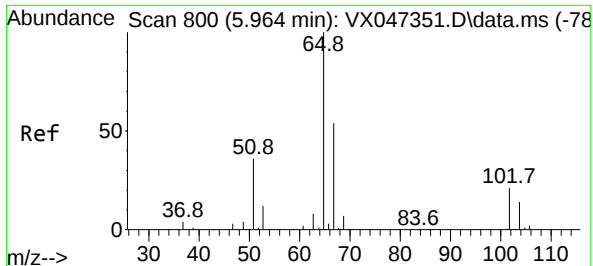
Ion Ratio Lower Upper

56 100

69 16.7 24.3 36.5#

84 70.3 65.3 97.9





#33

1,2-Dichloroethane-d4

Concen: 63.738 ug/l

RT: 5.983 min Scan# 800

Delta R.T. 0.018 min

Lab File: VX047444.D

Acq: 20 Aug 2025 15:47

Instrument :

MSVOA_X

ClientSampleId :

MN-12C-081825

Tgt Ion: 65 Resp: 18757

Ion Ratio Lower Upper

65 100

67 51.4 0.0 106.0

Manual Integrations

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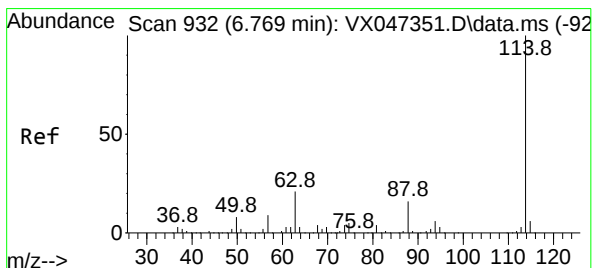
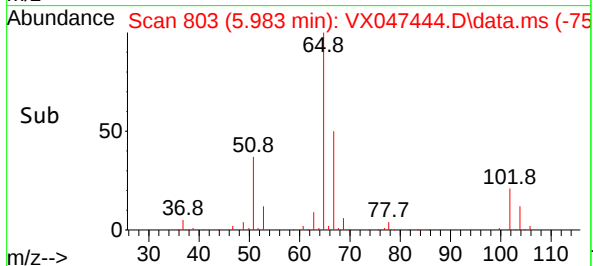
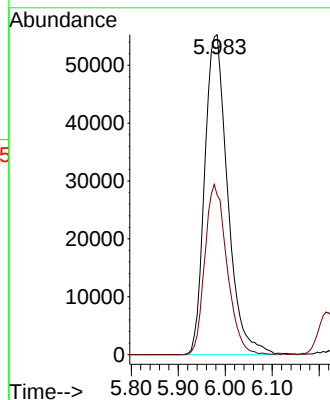
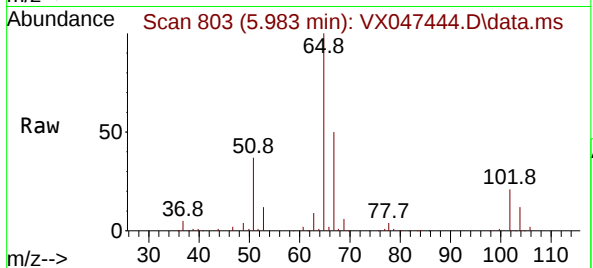
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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.006 min

Lab File: VX047444.D

Acq: 20 Aug 2025 15:47

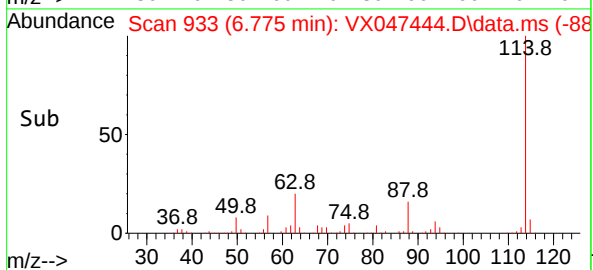
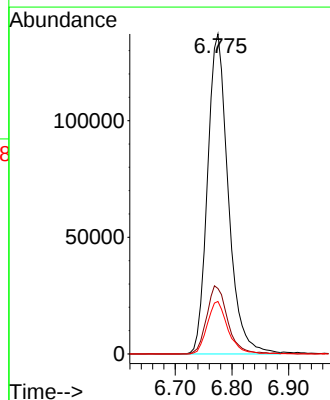
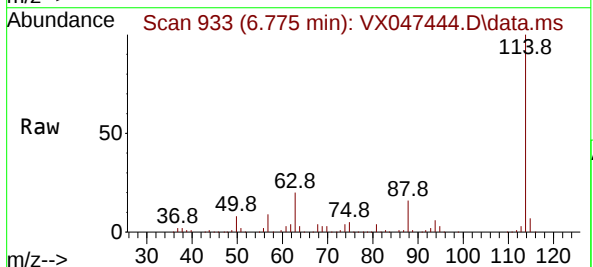
Tgt Ion:114 Resp: 348314

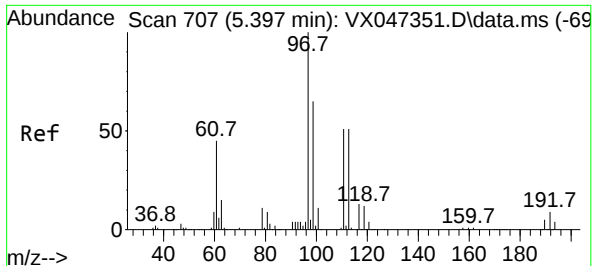
Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.4

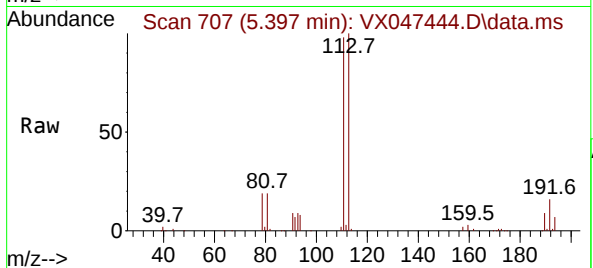
88 16.4 0.0 33.0





#35
Dibromofluoromethane
Concen: 66.108 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825



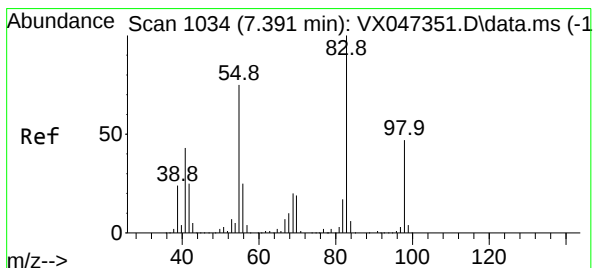
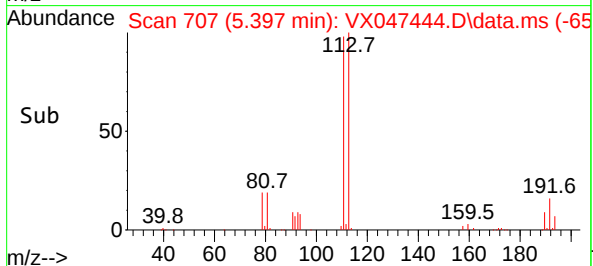
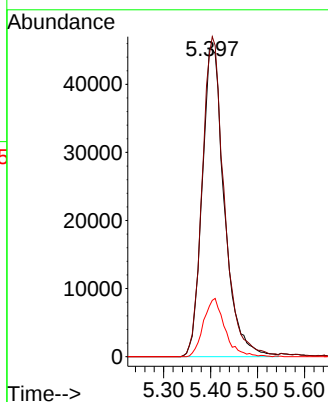
Tgt Ion: 113 Resp: 14944
Ion Ratio Lower Upper
113 100
111 102.3 81.4 122.2
192 18.1 14.1 21.1

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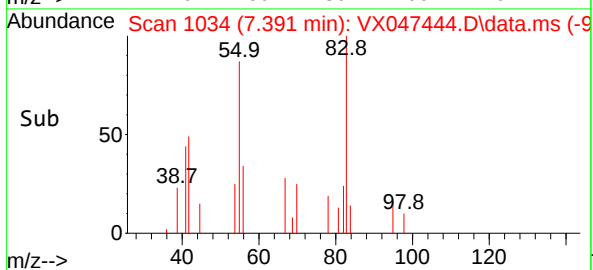
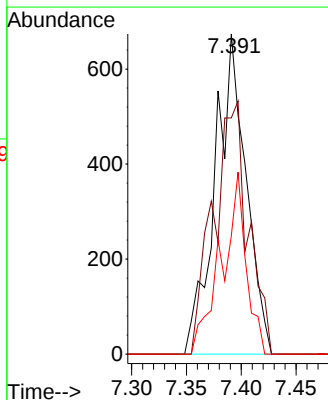
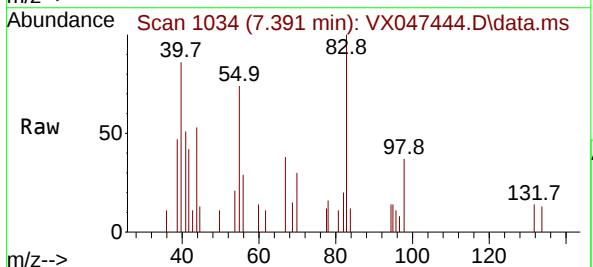
08/21/2025
Supervised By :Mahesh
Dadoda

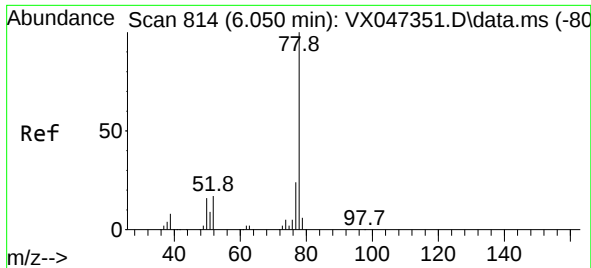
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#39
Methylcyclohexane
Concen: 0.298 ug/l
RT: 7.391 min Scan# 1034
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Tgt Ion: 83 Resp: 1328
Ion Ratio Lower Upper
83 100
55 73.7 60.0 90.0
98 36.9 37.2 55.8#





#40
Benzene
Concen: 3060.961 ug/l m
RT: 6.056 min Scan# 814
Delta R.T. 0.006 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
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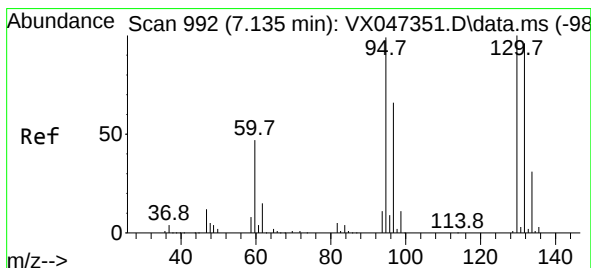
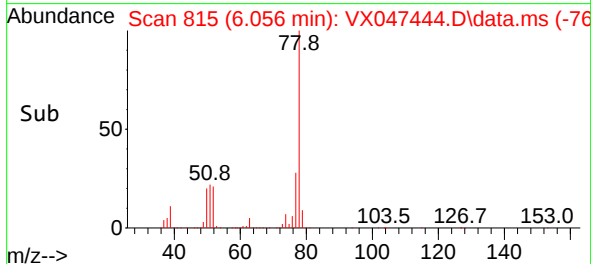
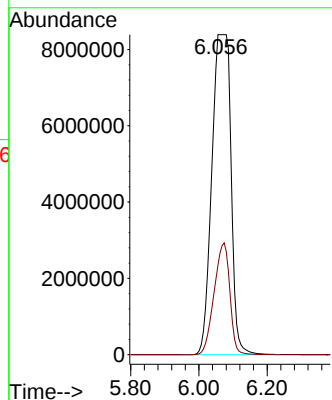
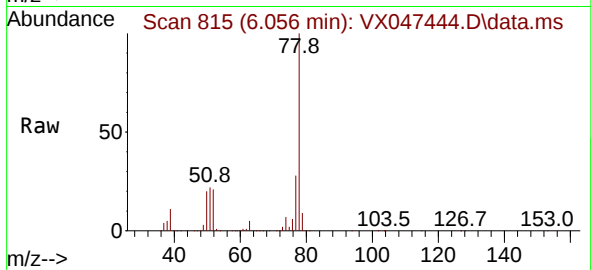
Tgt Ion: 78 Resp: 3269475
Ion Ratio Lower Upper
78 100
77 28.0 19.0 28.4

Manual Integrations
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Reviewed By :John
Carlone

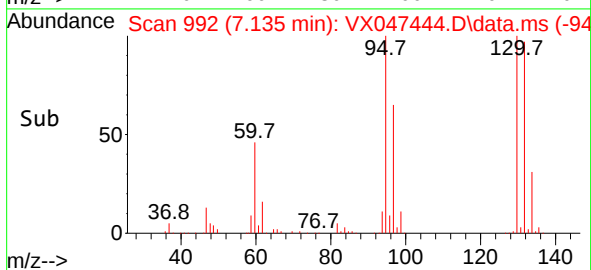
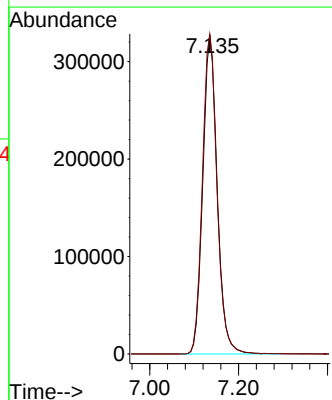
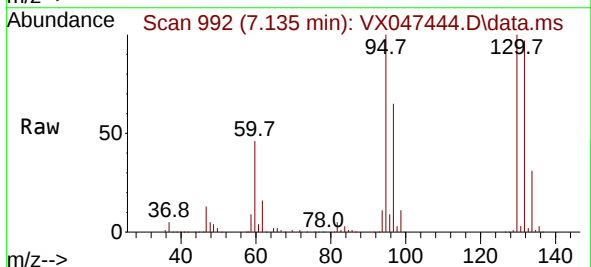
08/21/2025
Supervised By :Mahesh
Dadoda

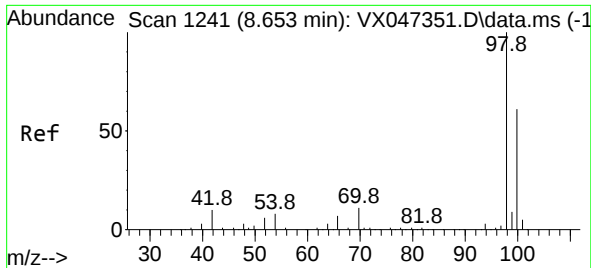
08/22/2025



#44
Trichloroethene
Concen: 270.318 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Tgt Ion: 130 Resp: 739313
Ion Ratio Lower Upper
130 100
95 100.5 0.0 198.6





#50
Toluene-d8
Concen: 55.622 ug/l
RT: 8.659 min Scan# 1242
Delta R.T. 0.006 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825

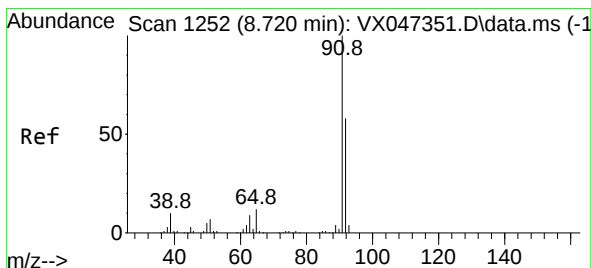
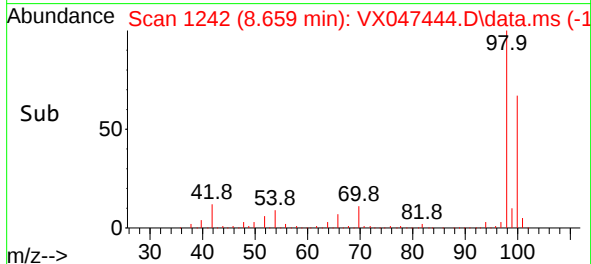
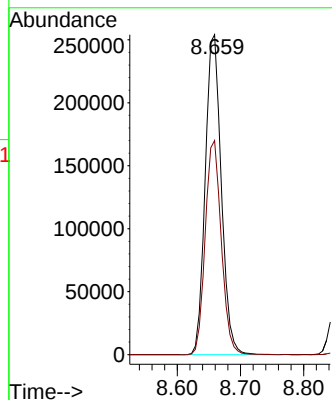
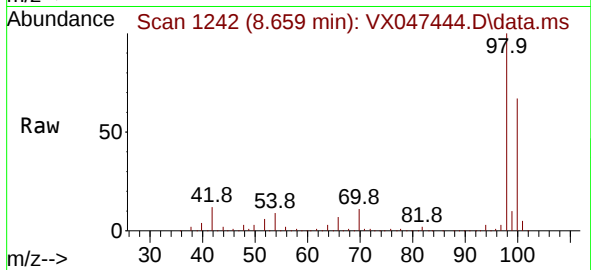
Tgt Ion: 98 Resp: 449420
Ion Ratio Lower Upper
98 100
100 66.9 53.9 80.9

Manual Integrations
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Reviewed By :John
Carlone

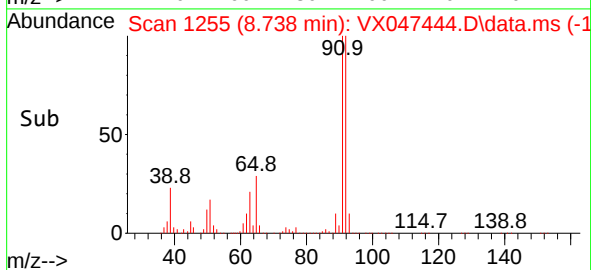
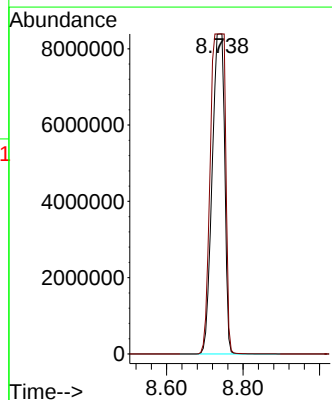
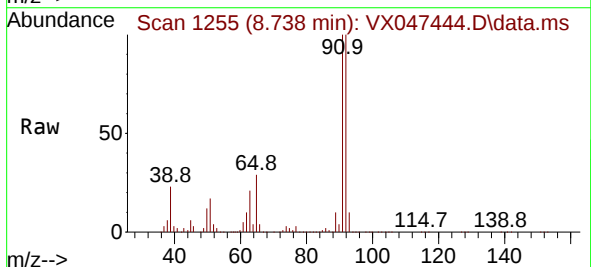
08/21/2025
Supervised By :Mahesh
Dadoda

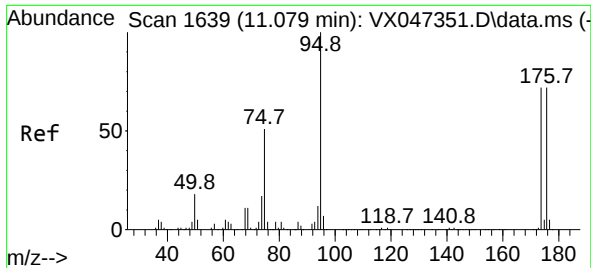
08/22/2025



#52
Toluene
Concen: 2866.322 ug/l
RT: 8.738 min Scan# 1255
Delta R.T. 0.018 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

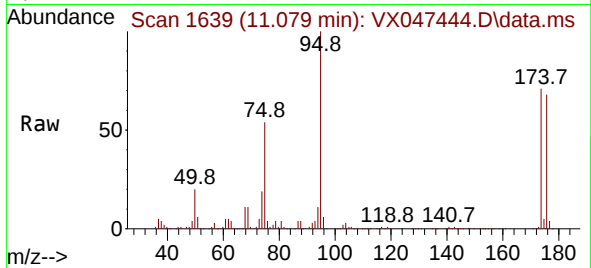
Tgt Ion: 92 Resp:18918291
Ion Ratio Lower Upper
92 100
91 0.0 136.3 204.5#





#62
4-Bromofluorobenzene
Concen: 53.234 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825



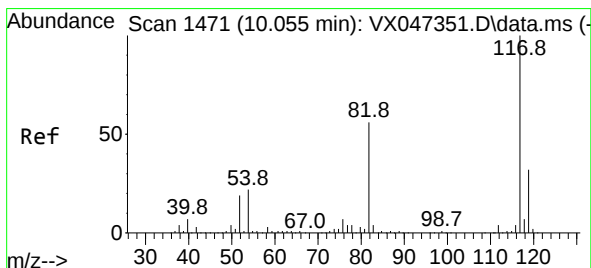
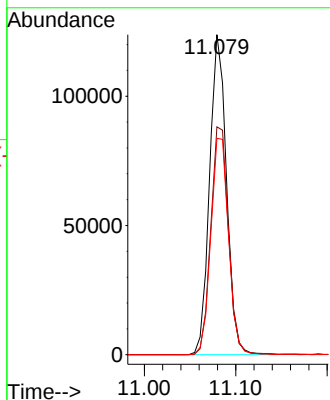
Tgt Ion: 95 Resp: 158720
Ion Ratio Lower Upper
95 100
174 74.7 0.0 148.0
176 71.1 0.0 145.4

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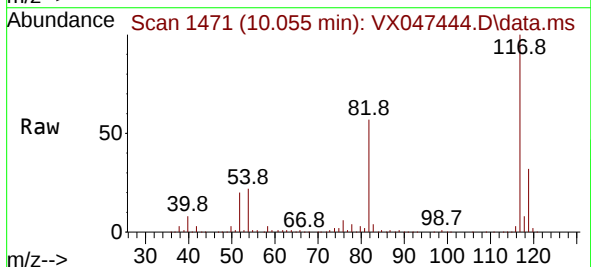
Reviewed By :John
Carlone

08/21/2025
Supervised By :Mahesh
Dadoda

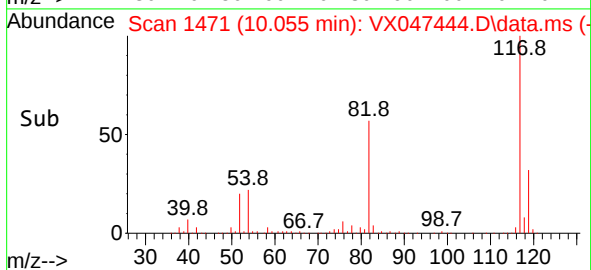
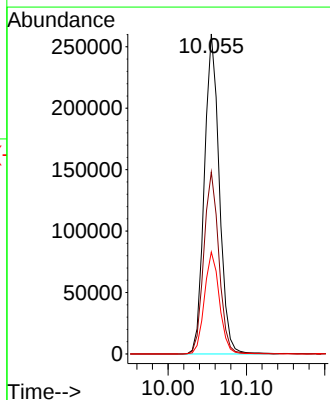
08/22/2025

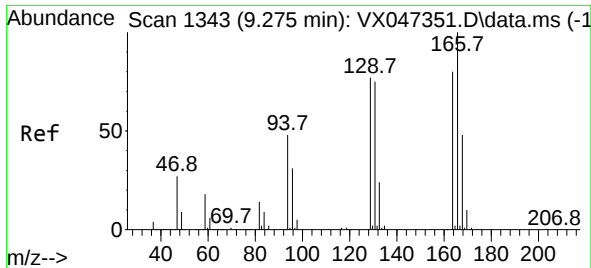


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47



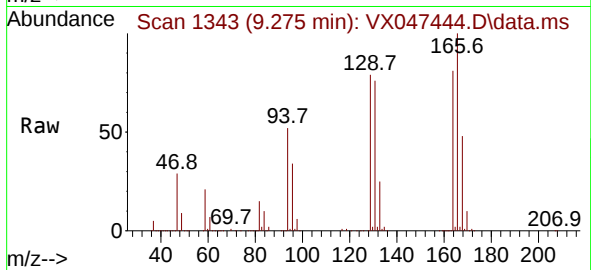
Tgt Ion:117 Resp: 344337
Ion Ratio Lower Upper
117 100
82 56.9 45.0 67.4
119 31.8 25.8 38.8





#64
Tetrachloroethene
Concen: 188.334 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825



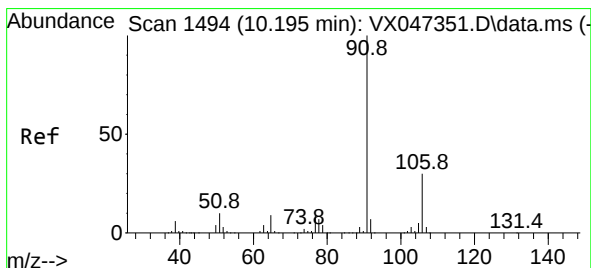
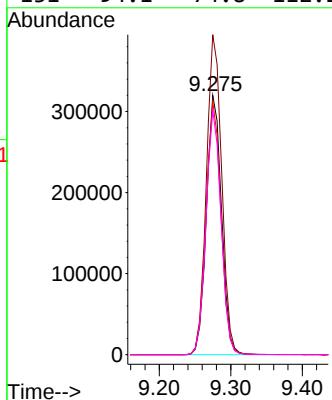
Tgt Ion:164 Resp: 469074
Ion Ratio Lower Upper
164 100
166 123.5 100.3 150.5
129 97.6 77.7 116.5
131 94.1 74.8 112.2

Manual Integrations
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Reviewed By :John
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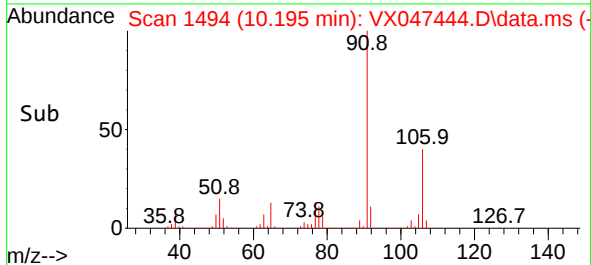
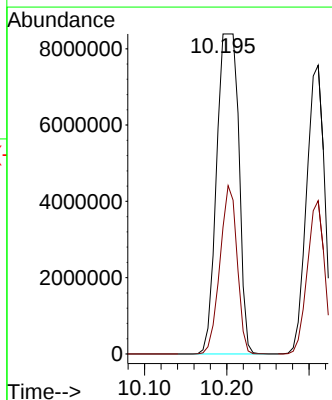
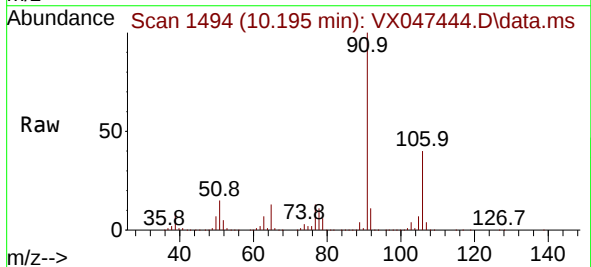
08/21/2025
Supervised By :Mahesh
Dadoda

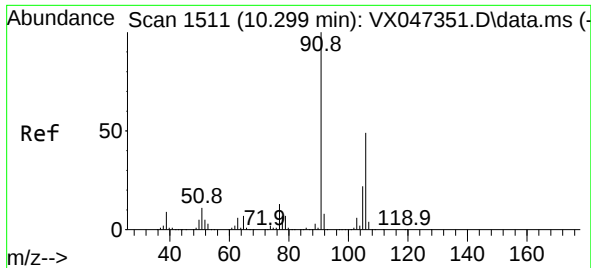
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#67
Ethyl Benzene
Concen: 1113.162 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

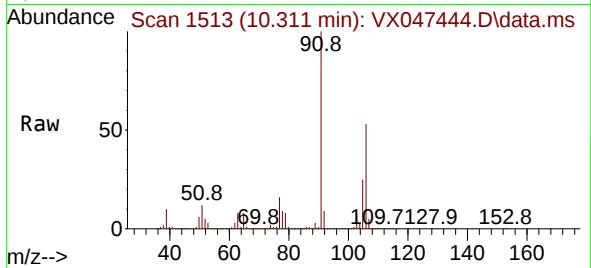
Tgt Ion: 91 Resp:15677494
Ion Ratio Lower Upper
91 100
106 39.6 24.4 36.6#





#68
m/p-Xylenes
Concen: 1104.240 ug/l
RT: 10.311 min Scan# 1511
Delta R.T. 0.012 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825



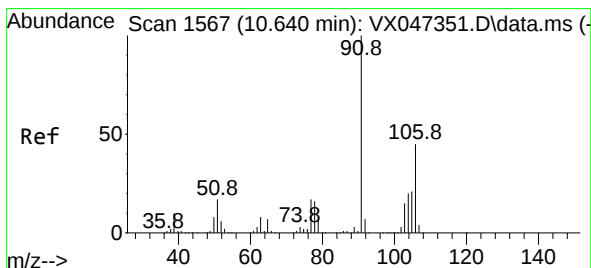
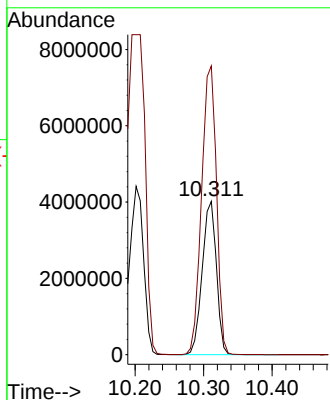
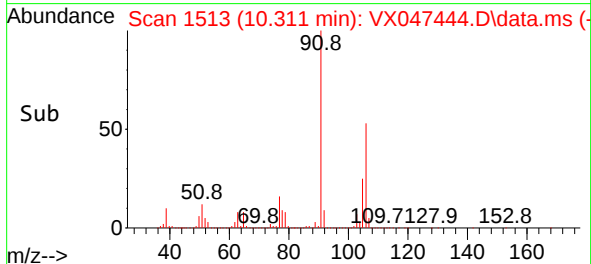
Tgt Ion:106 Resp: 5798914
Ion Ratio Lower Upper
106 100
91 197.7 164.7 247.1

Manual Integrations
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Reviewed By :John
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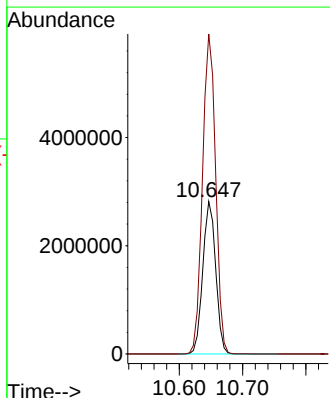
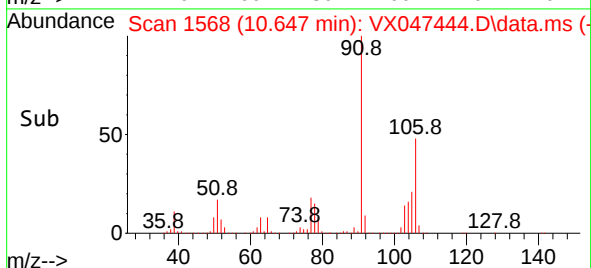
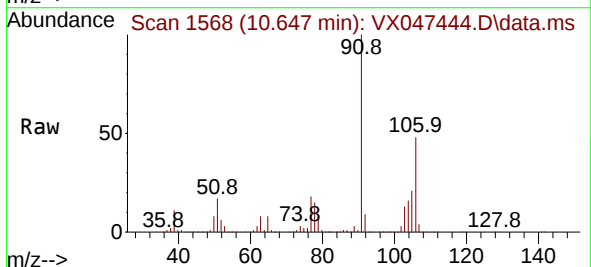
08/21/2025
Supervised By :Mahesh
Dadoda

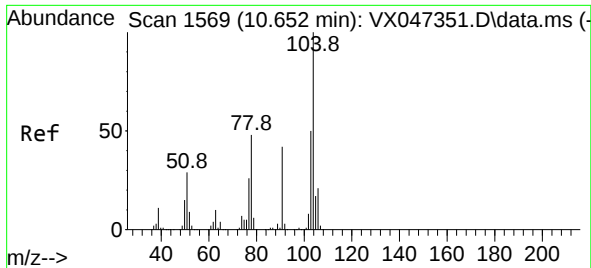
08/22/2025



#69
o-Xylene
Concen: 792.368 ug/l
RT: 10.647 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

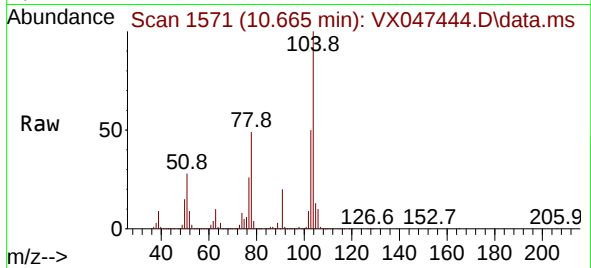
Tgt Ion:106 Resp: 4004397
Ion Ratio Lower Upper
106 100
91 213.6 110.6 331.8





#70
Styrene
Concen: 772.418 ug/l
RT: 10.665 min Scan# 1569
Delta R.T. 0.012 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825



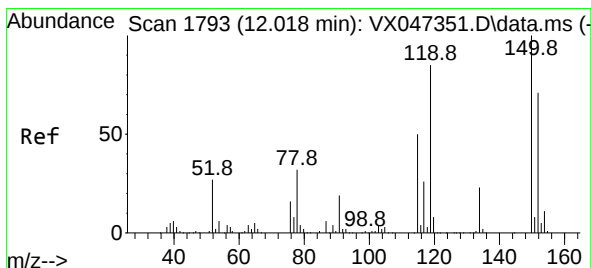
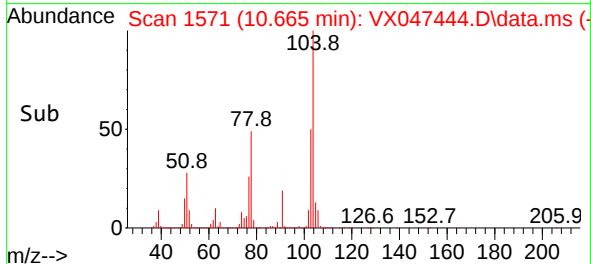
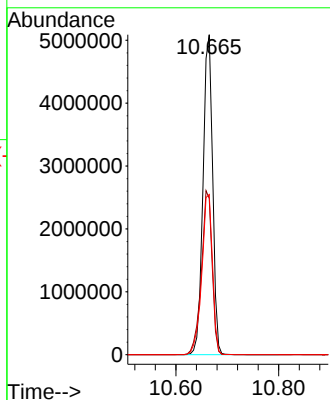
Tgt Ion:104 Resp: 659573
Ion Ratio Lower Upper
104 100
78 56.9 41.8 62.8
103 55.9 43.6 65.4

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Reviewed By :John
Carlone

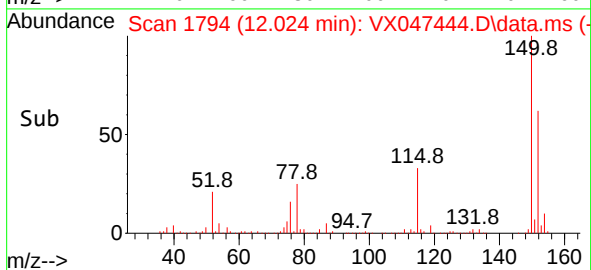
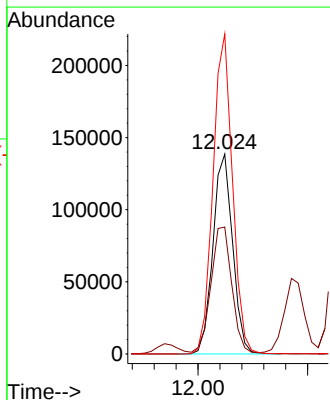
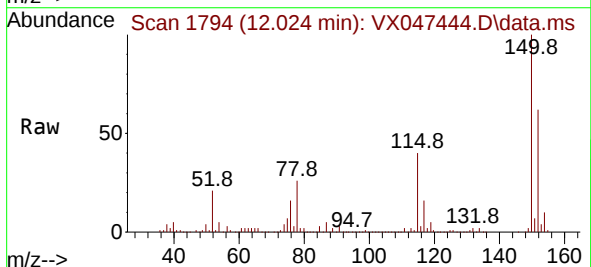
08/21/2025
Supervised By :Mahesh
Dadoda

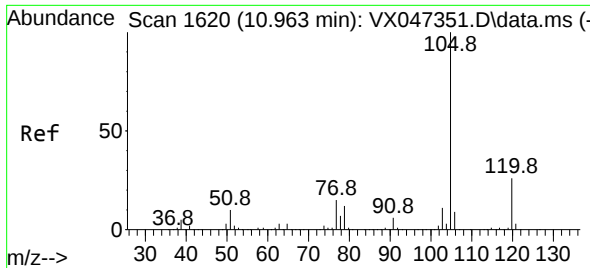
08/22/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Tgt Ion:152 Resp: 172936
Ion Ratio Lower Upper
152 100
115 65.9 44.6 133.8
150 158.1 0.0 349.8





#73
Isopropylbenzene
Concen: 32.100 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825

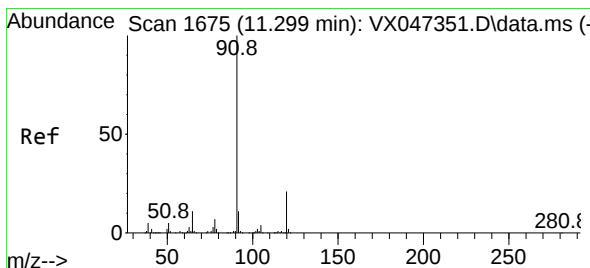
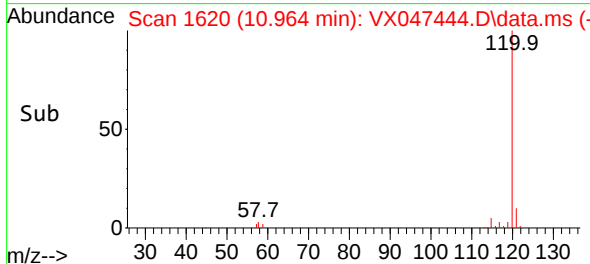
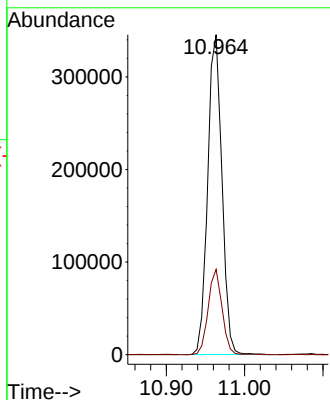
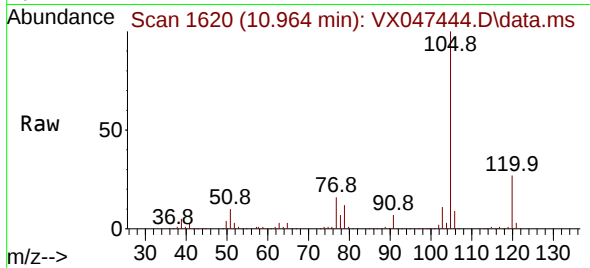
Tgt Ion:105 Resp: 43441
Ion Ratio Lower Upper
105 100
120 26.1 12.9 38.6

Manual Integrations
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Reviewed By :John
Carlone

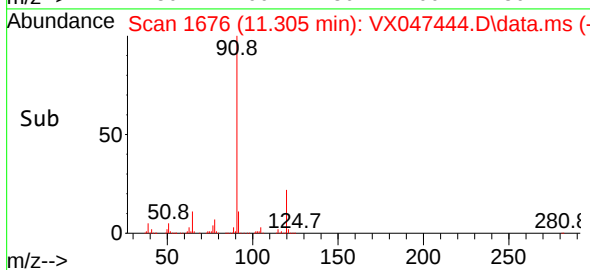
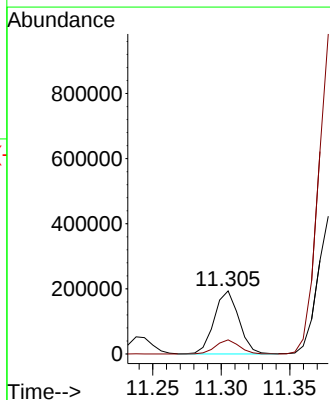
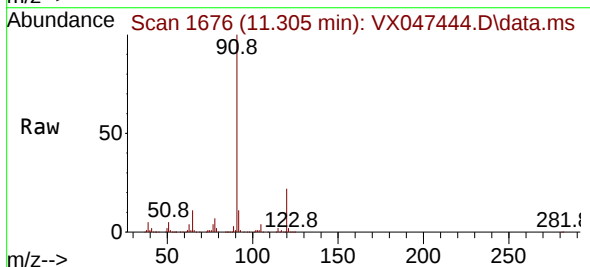
08/21/2025
Supervised By :Mahesh
Dadoda

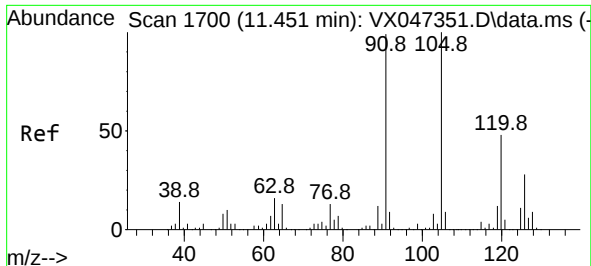
08/22/2025



#78
n-propylbenzene
Concen: 14.992 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

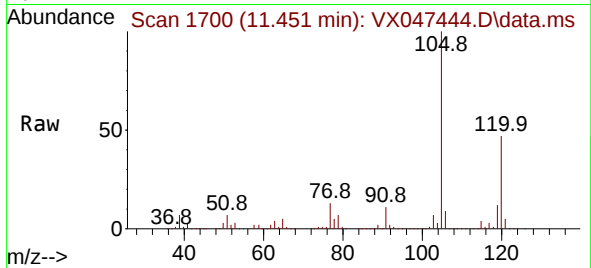
Tgt Ion: 91 Resp: 242307
Ion Ratio Lower Upper
91 100
120 0.0 11.0 33.0#





#80
1,3,5-Trimethylbenzene
Concen: 87.618 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47

Instrument :
MSVOA_X
ClientSampleId :
MN-12C-081825



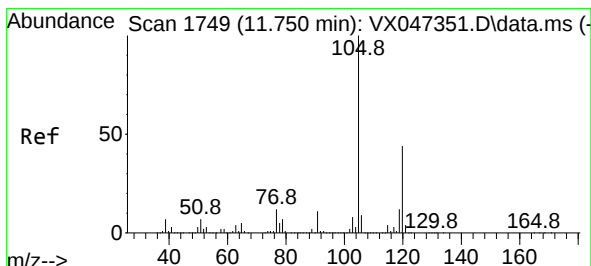
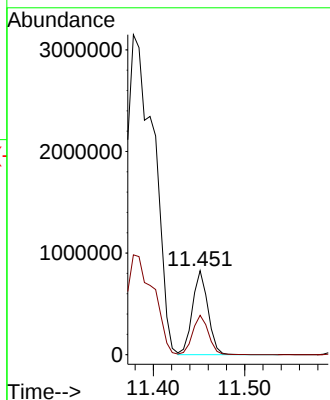
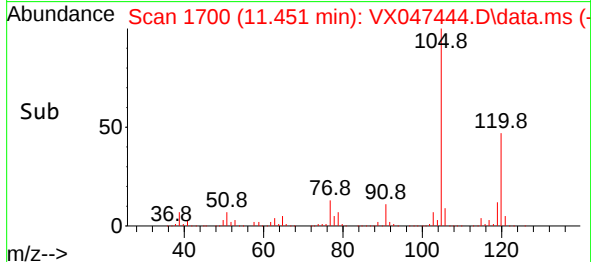
Tgt Ion:105 Resp: 975610
Ion Ratio Lower Upper
105 100
120 47.8 23.9 71.7

Manual Integrations
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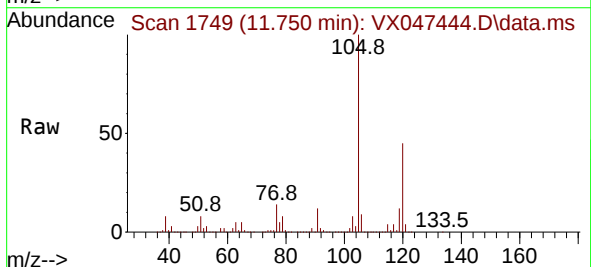
Reviewed By :John
Carlone

08/21/2025
Supervised By :Mahesh
Dadoda

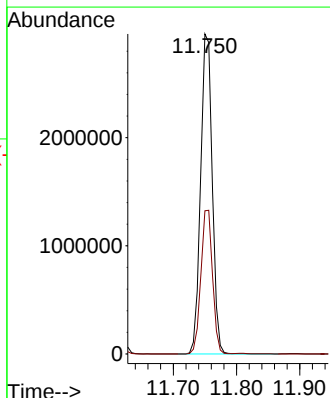
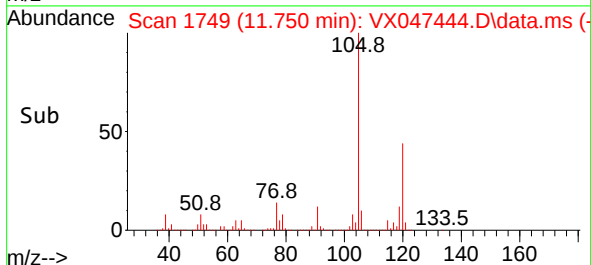
08/22/2025

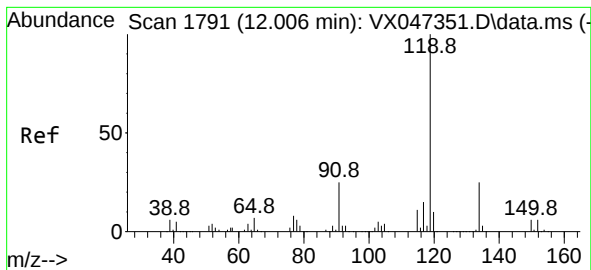


#84
1,2,4-Trimethylbenzene
Concen: 340.680 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX047444.D
Acq: 20 Aug 2025 15:47



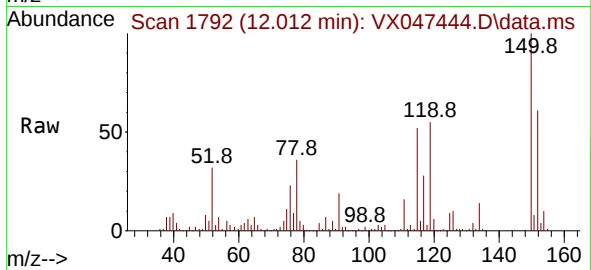
Tgt Ion:105 Resp: 3793504
Ion Ratio Lower Upper
105 100
120 45.0 21.9 65.7





#86
 p-Isopropyltoluene
 Concen: 5.440 ug/l
 RT: 12.012 min Scan# 1
 Delta R.T. 0.006 min
 Lab File: VX047444.D
 Acq: 20 Aug 2025 15:47

Instrument :
 MSVOA_X
 ClientSampleId :
 MN-12C-081825



Tgt Ion:119 Resp: 6338
 Ion Ratio Lower Upper
 119 100
 134 26.2 12.8 38.4
 91 0.0 12.4 37.4

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

08/21/2025
 Supervised By :Mahesh
 Dadoda

08/22/2025

