

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103025\
 Data File : VY023629.D
 Acq On : 30 Oct 2025 13:50
 Operator : SY/MD
 Sample : Q3488-04
 Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MOO-25-0302-0310

Quant Time: Oct 31 02:40:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/31/2025
 Supervised By :Mahesh Dadoda 10/31/2025

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	721368	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1174926	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	739405	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	130413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	322899	53.529	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.060%			
35) Dibromofluoromethane	7.640	113	368731	51.075	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.160%			
50) Toluene-d8	10.109	98	1224183	45.533	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 91.060%			
62) 4-Bromofluorobenzene	12.407	95	223635	25.195	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 50.380%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.860	59	5668	12.630	ug/l #	89
20) Methylene Chloride	4.616	84	25800	3.322	ug/l	97
39) Methylcyclohexane	9.109	83	496274	39.880	ug/l	95
52) Toluene	10.170	92	564069	28.702	ug/l	99
67) Ethyl Benzene	11.517	91	3829248	147.101	ug/l	99
68) m/p-Xylenes	11.627	106	7248569	694.234	ug/l	93
69) o-Xylene	11.956	106	3204507	327.209	ug/l	99
73) Isopropylbenzene	12.255	105	788831	91.785	ug/l	99
78) n-propylbenzene	12.596	91	1195828	120.238	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	1560664	224.721	ug/l	100
84) 1,2,4-Trimethylbenzene	13.041	105	5925157	854.882	ug/l	99
85) sec-Butylbenzene	13.176	105	73814m	8.025	ug/l	
86) p-Isopropyltoluene	13.291	119	46481m	5.935	ug/l	
89) n-Butylbenzene	13.614	91	57478	8.423	ug/l #	60

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

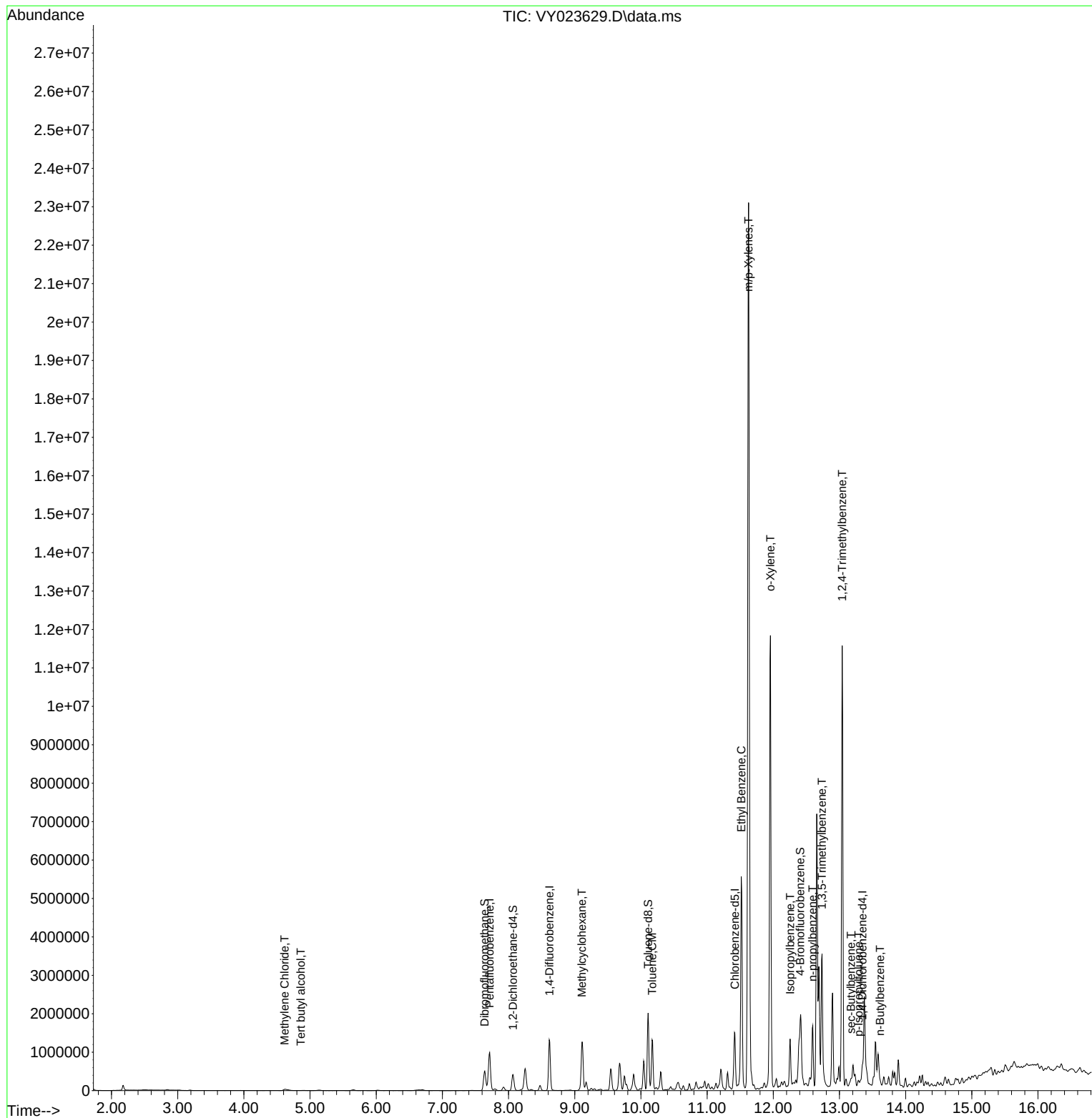
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103025\
Data File : VY023629.D
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Operator : SY/MD
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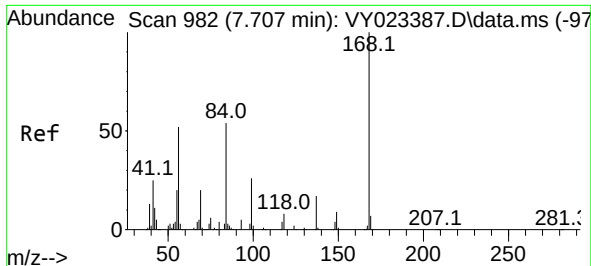
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310

Quant Time: Oct 31 02:40:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

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APPROVED

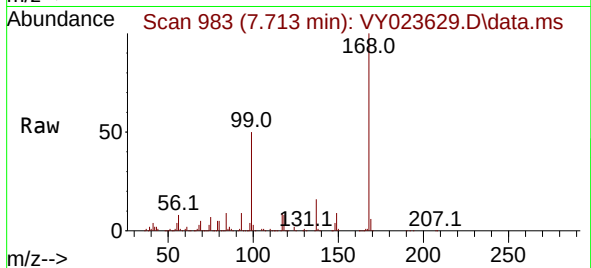
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

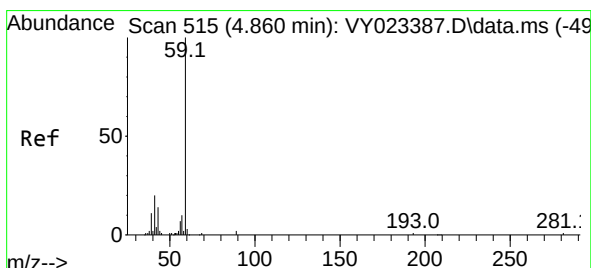
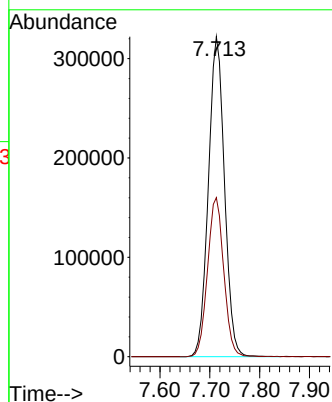
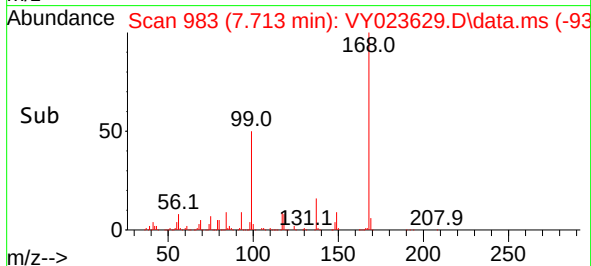
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310



Tgt Ion:168 Resp: 721368
Ion Ratio Lower Upper
168 100
99 49.7 39.7 59.5

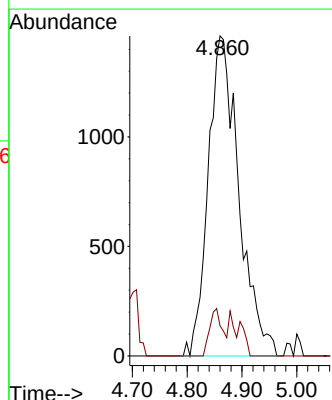
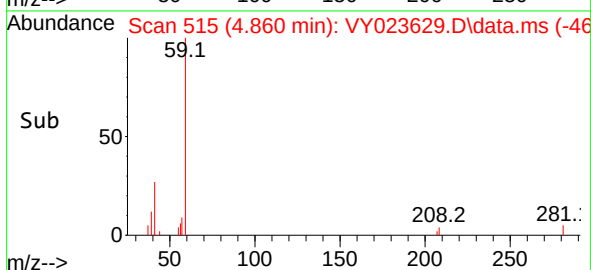
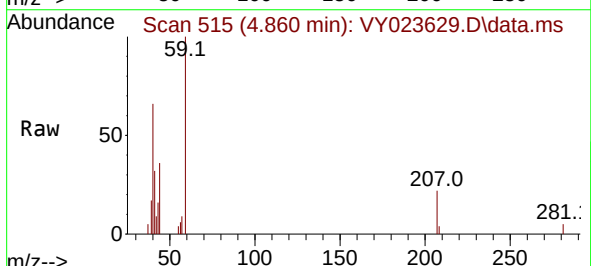
Manual Integrations
APPROVED

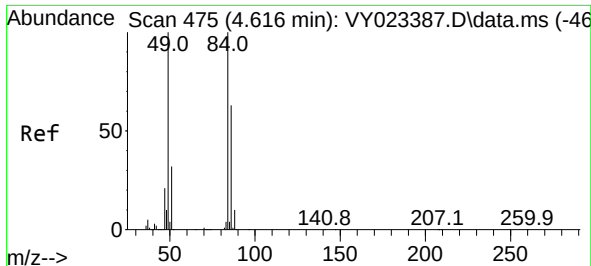
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025



#11
Tert butyl alcohol
Concen: 12.630 ug/l
RT: 4.860 min Scan# 515
Delta R.T. -0.000 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

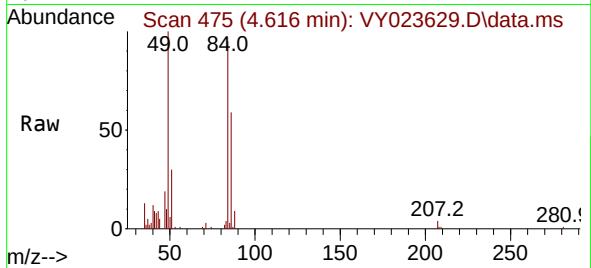
Tgt Ion: 59 Resp: 5668
Ion Ratio Lower Upper
59 100
57 6.1 8.3 12.5#





#20
Methylene Chloride
Concen: 3.322 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

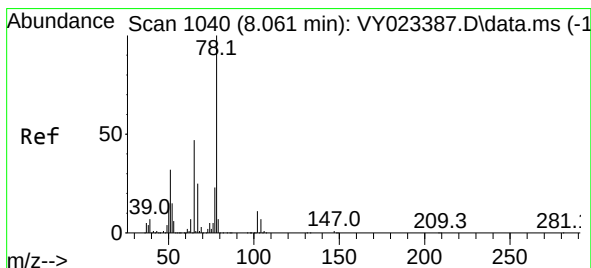
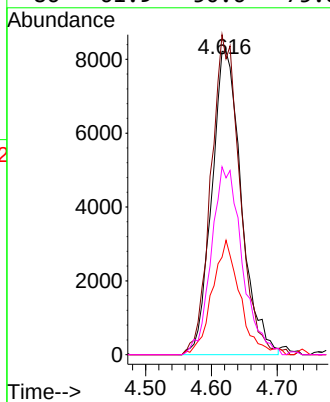
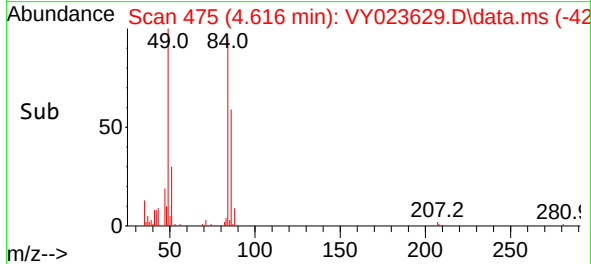
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310



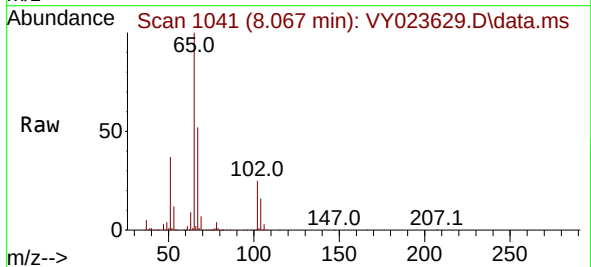
Tgt Ion: 84 Resp: 25800
Ion Ratio Lower Upper
84 100
49 105.5 80.2 120.4
51 32.1 25.9 38.9
86 61.9 50.6 75.8

Manual Integrations
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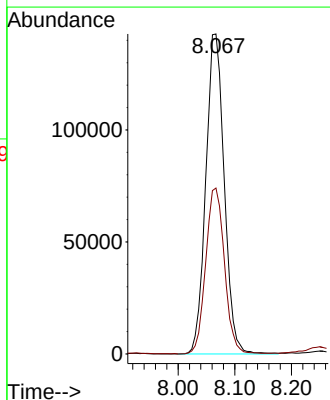
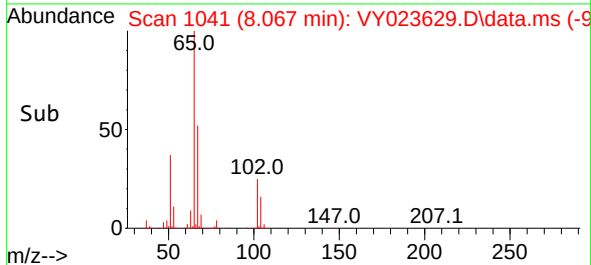
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025

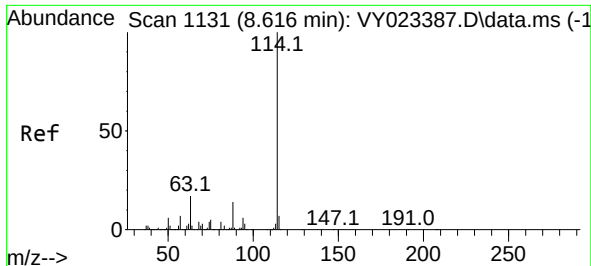


#33
1,2-Dichloroethane-d4
Concen: 53.529 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50



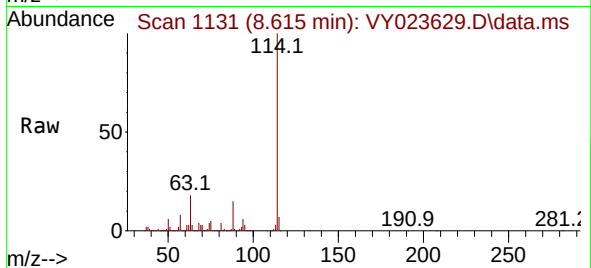
Tgt Ion: 65 Resp: 322899
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.8





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

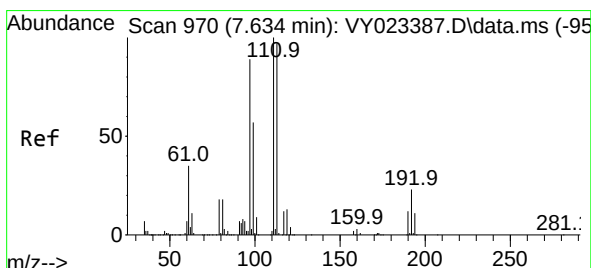
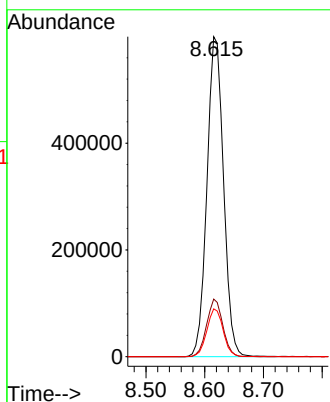
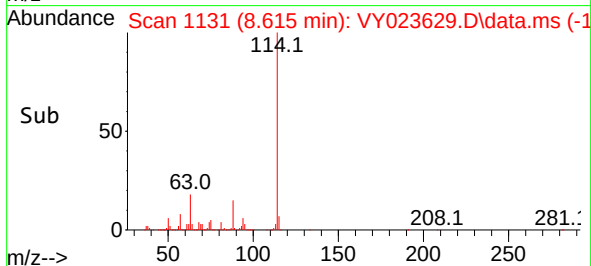
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310



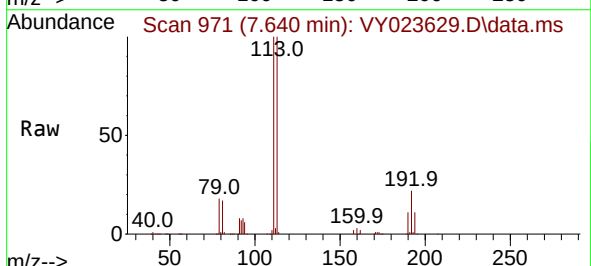
Tgt Ion:114 Resp: 1174920
Ion Ratio Lower Upper
114 100
63 18.0 0.0 34.2
88 14.9 0.0 28.4

Manual Integrations
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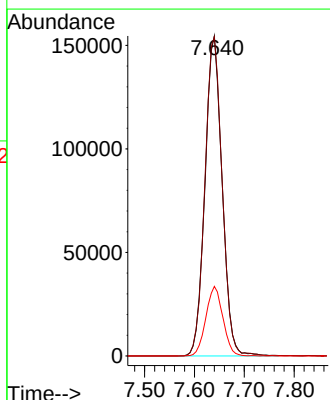
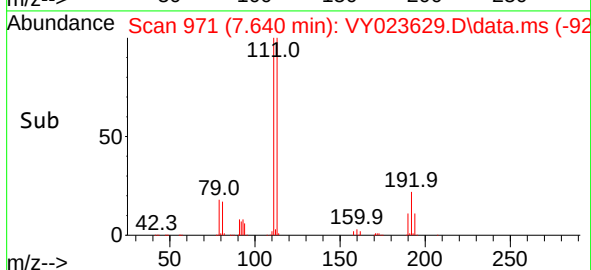
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025

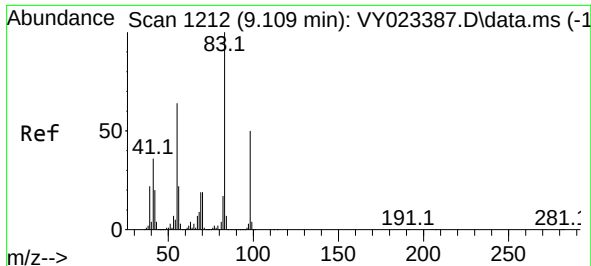


#35
Dibromofluoromethane
Concen: 51.075 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50



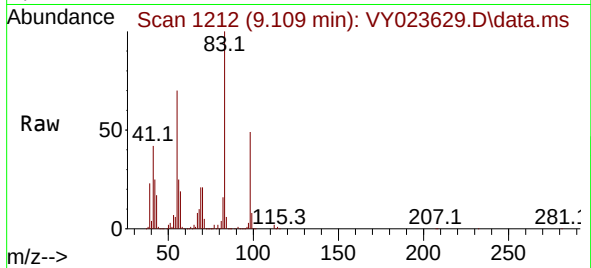
Tgt Ion:113 Resp: 368731
Ion Ratio Lower Upper
113 100
111 100.6 81.8 122.6
192 21.6 18.0 27.0





#39
Methylcyclohexane
Concen: 39.880 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

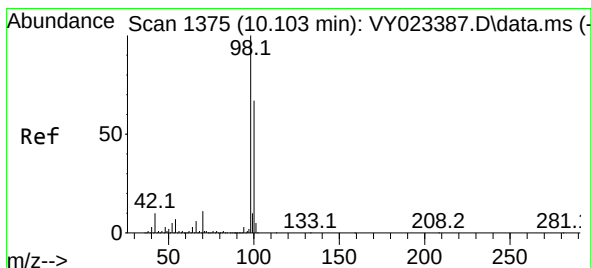
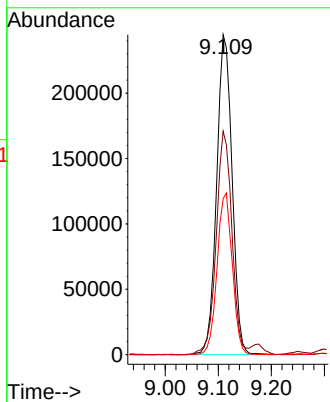
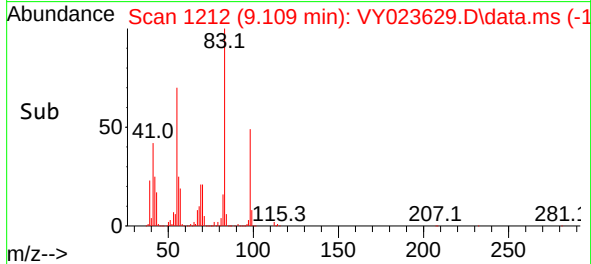
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310



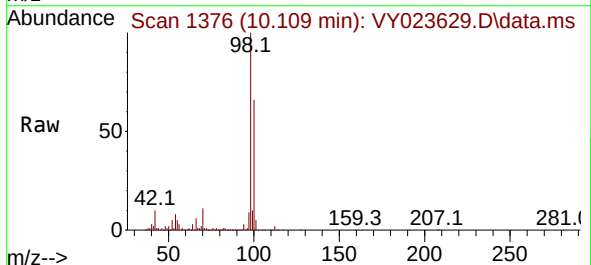
Tgt Ion: 83 Resp: 496274
Ion Ratio Lower Upper
83 100
55 69.9 51.4 77.2
98 48.8 40.4 60.6

Manual Integrations
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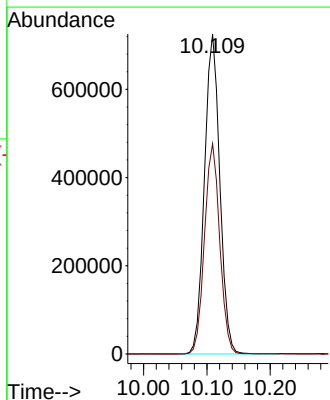
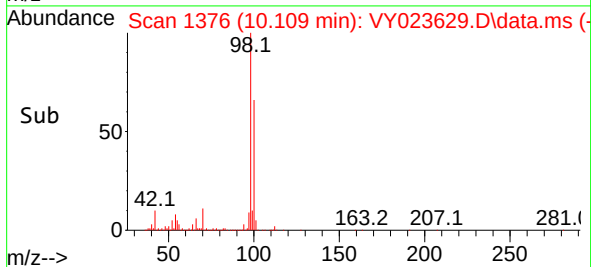
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025

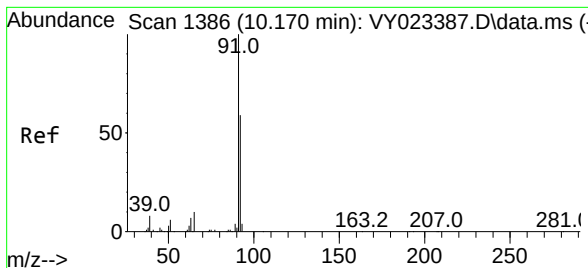


#50
Toluene-d8
Concen: 45.533 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50



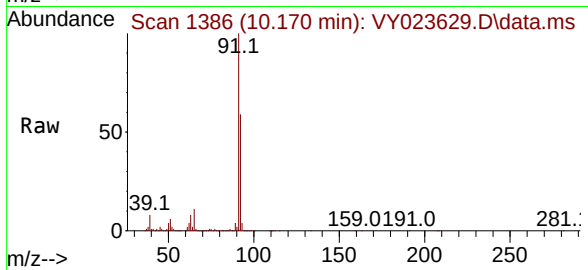
Tgt Ion: 98 Resp: 1224183
Ion Ratio Lower Upper
98 100
100 65.3 53.0 79.4





#52
Toluene
Concen: 28.702 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

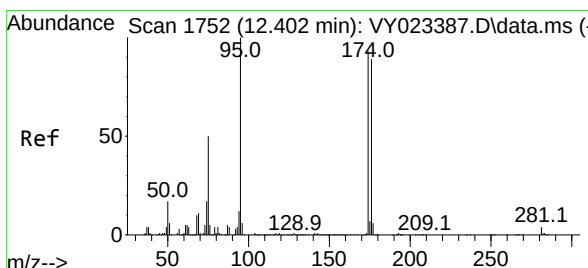
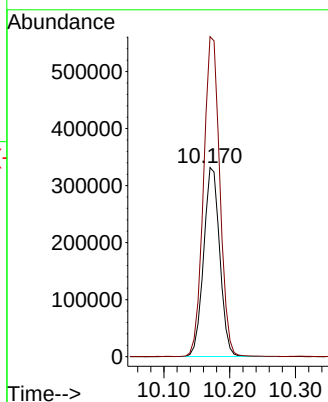
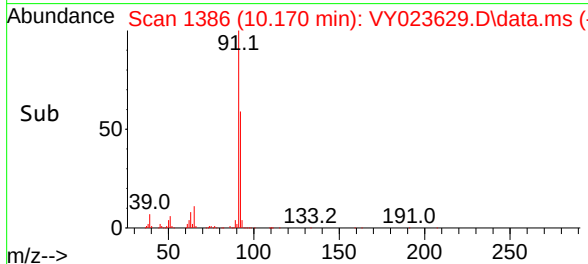
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310



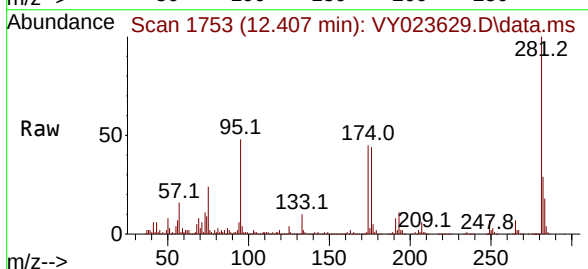
Tgt Ion: 92 Resp: 564069
Ion Ratio Lower Upper
92 100
91 171.5 136.4 204.6

Manual Integrations
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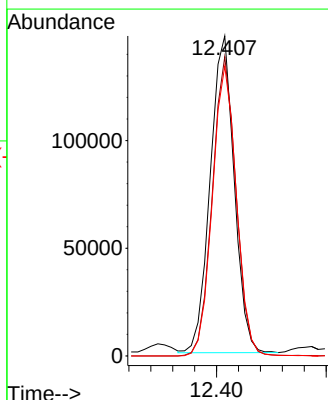
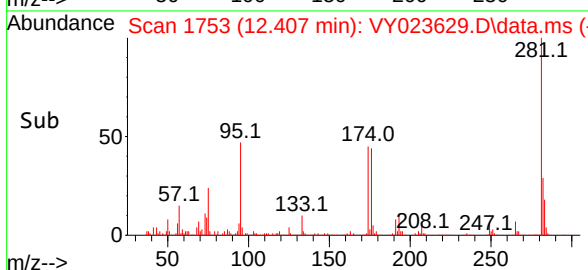
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025

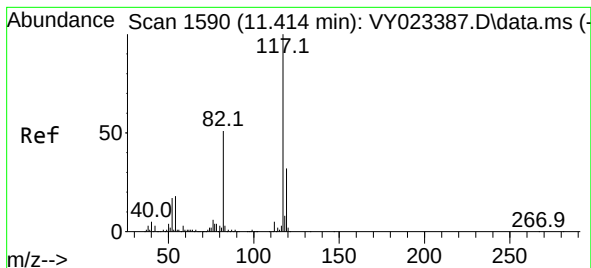


#62
4-Bromofluorobenzene
Concen: 25.195 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50



Tgt Ion: 95 Resp: 223635
Ion Ratio Lower Upper
95 100
174 93.3 0.0 192.8
176 91.6 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023629.D

Acq: 30 Oct 2025 13:50

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0302-0310

Tgt Ion:117 Resp: 73940

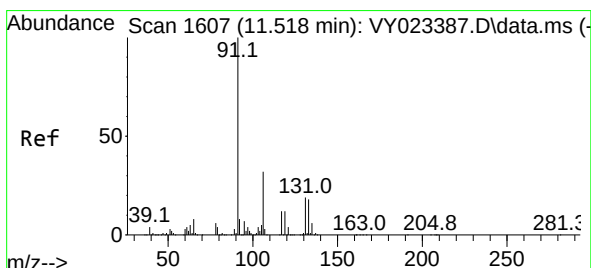
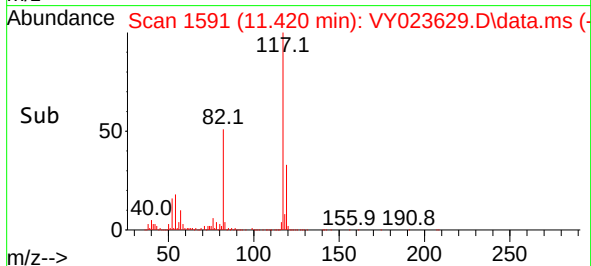
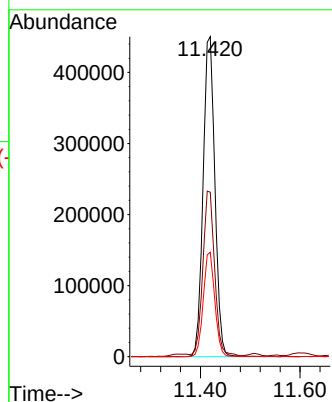
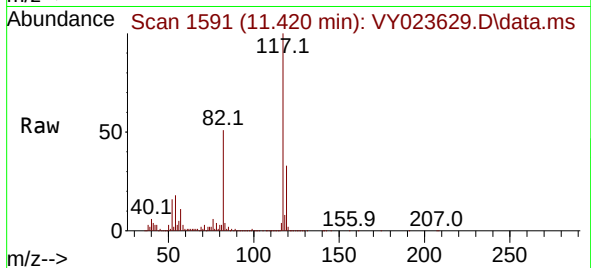
Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.0	61.4
119	32.6	25.6	38.4

Manual Integrations

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Supervised By :Mahesh Dadoda 10/31/2025



#67

Ethyl Benzene

Concen: 147.101 ug/l

RT: 11.517 min Scan# 1607

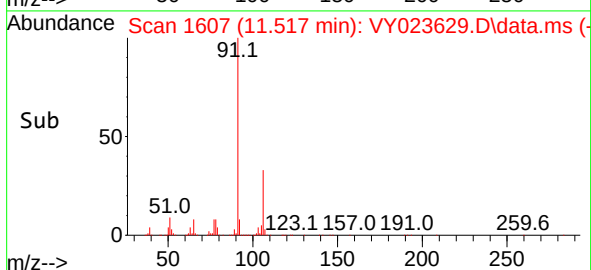
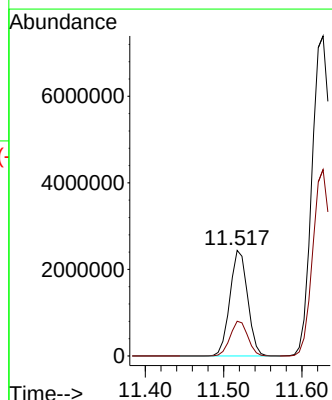
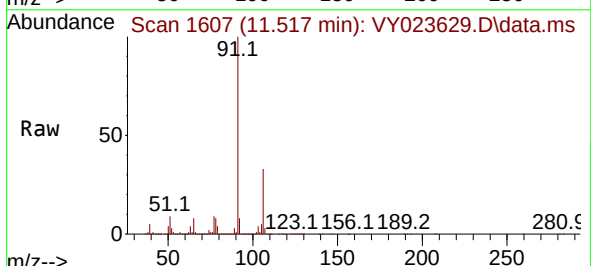
Delta R.T. -0.000 min

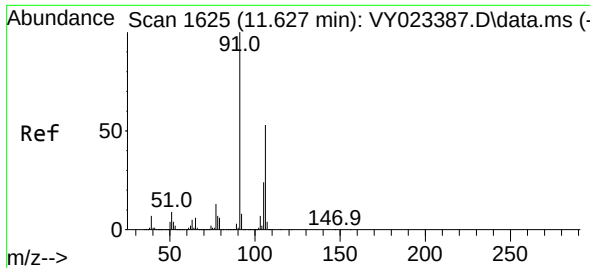
Lab File: VY023629.D

Acq: 30 Oct 2025 13:50

Tgt Ion: 91 Resp: 3829248

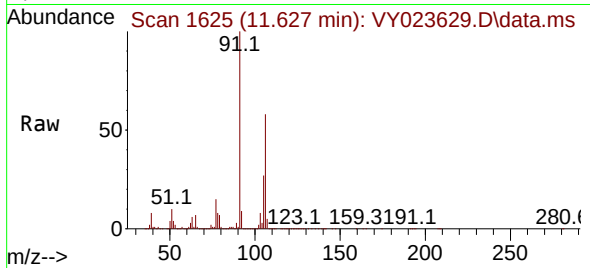
Ion	Ratio	Lower	Upper
91	100		
106	32.9	25.8	38.8





#68
m/p-Xylenes
Concen: 694.234 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

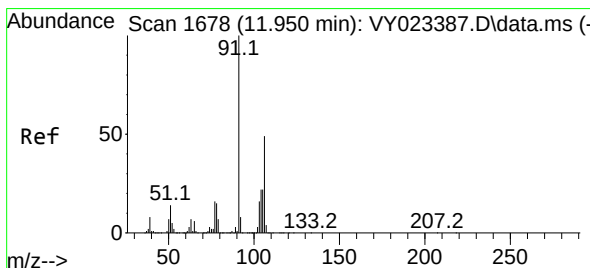
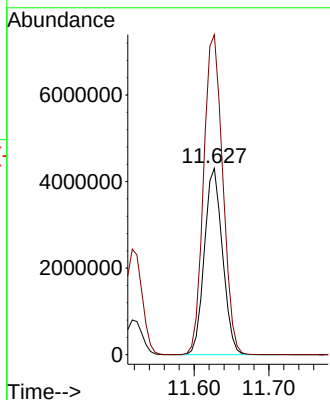
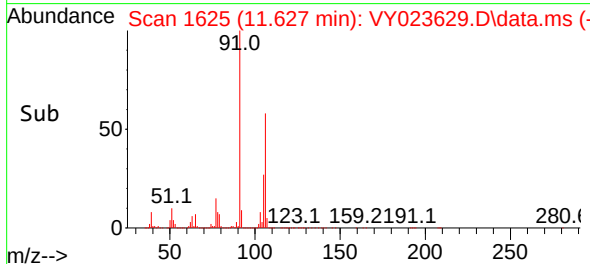
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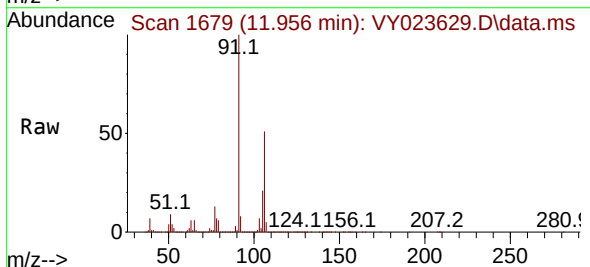
Tgt Ion:106 Resp: 7248569
Ion Ratio Lower Upper
106 100
91 180.9 152.6 229.0

Manual Integrations
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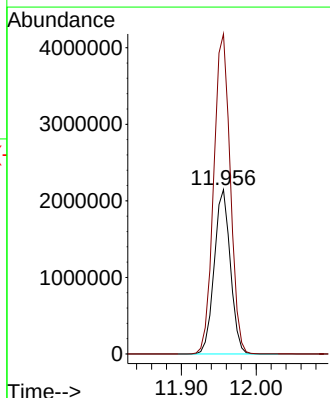
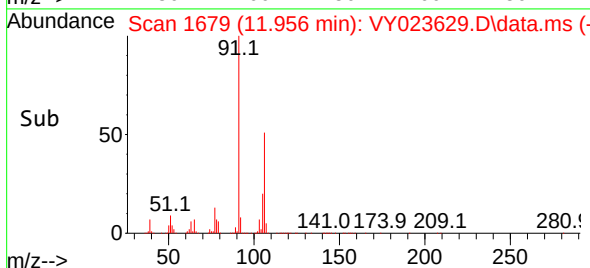
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025

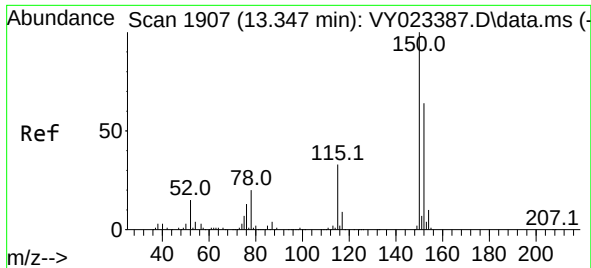


#69
o-Xylene
Concen: 327.209 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50



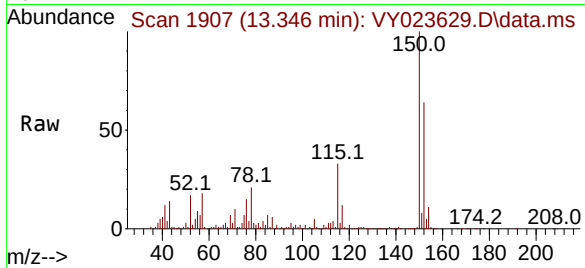
Tgt Ion:106 Resp: 3204507
Ion Ratio Lower Upper
106 100
91 200.6 101.4 304.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

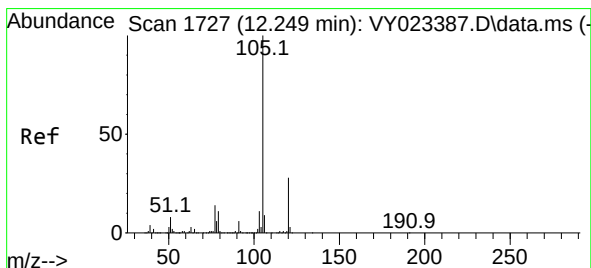
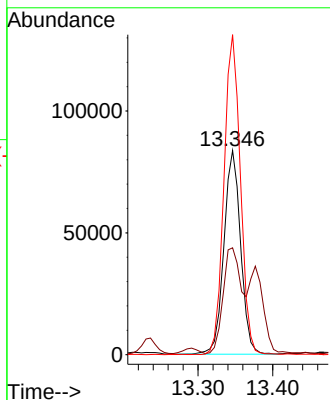
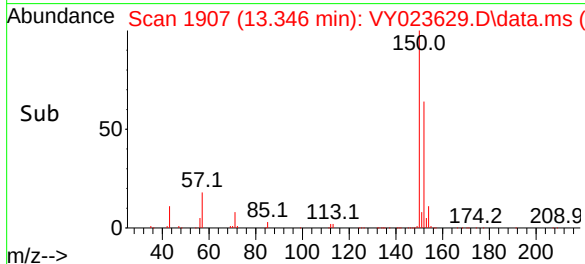
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310



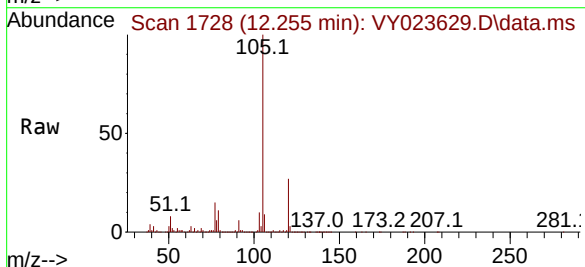
Tgt Ion:152 Resp: 130411
Ion Ratio Lower Upper
152 100
115 59.0 27.1 81.2
150 153.9 0.0 347.4

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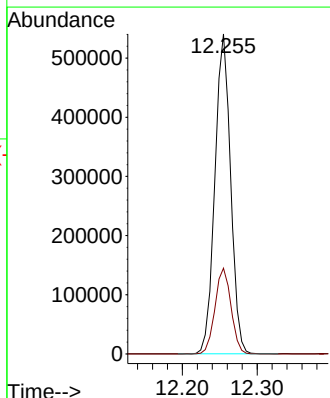
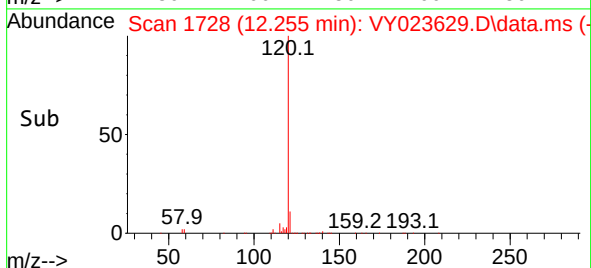
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025

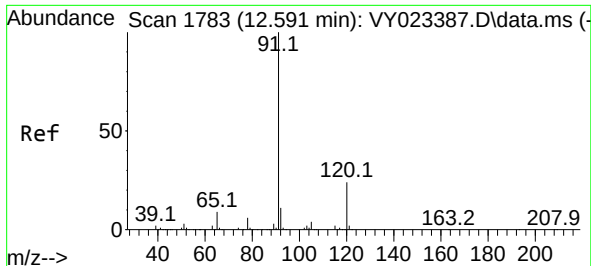


#73
Isopropylbenzene
Concen: 91.785 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50



Tgt Ion:105 Resp: 788831
Ion Ratio Lower Upper
105 100
120 27.3 13.9 41.7





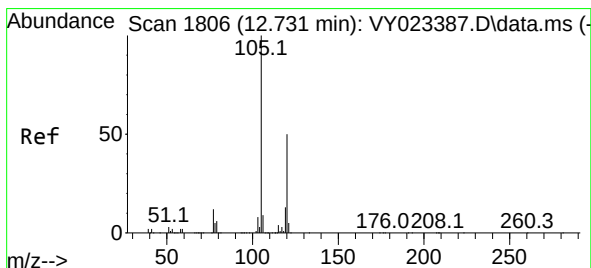
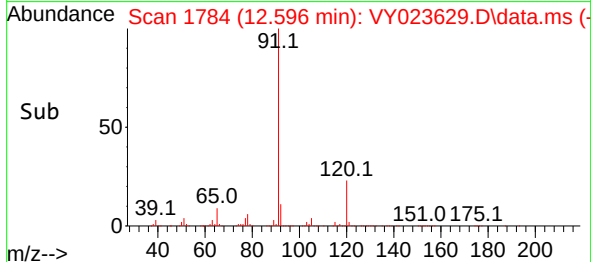
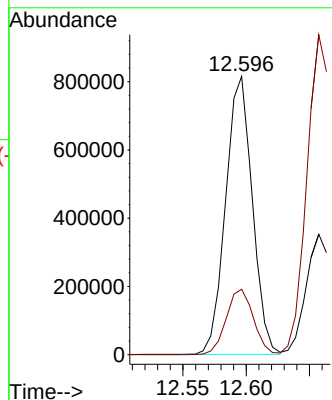
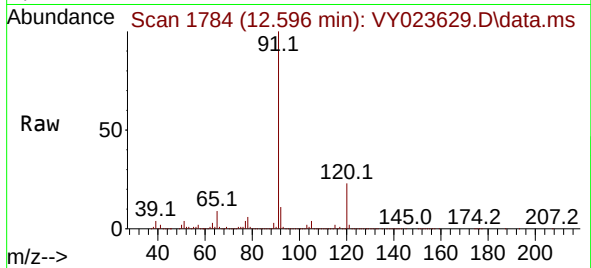
#78
n-propylbenzene
Concen: 120.238 ug/l
RT: 12.596 min Scan# 1195828
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310

Tgt Ion: 91 Resp: 1195828
Ion Ratio Lower Upper
91 100
120 24.0 12.3 36.8

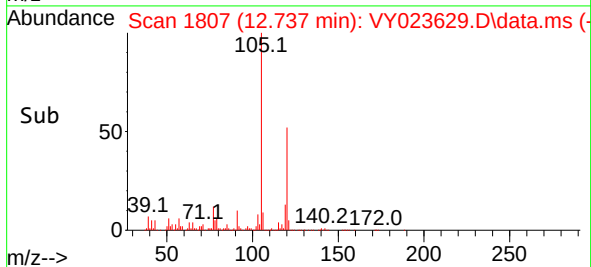
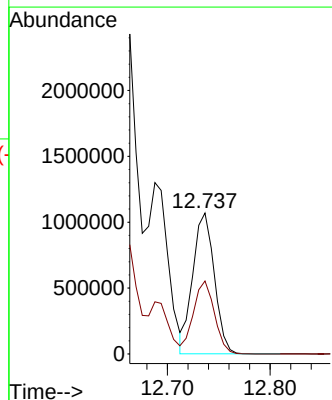
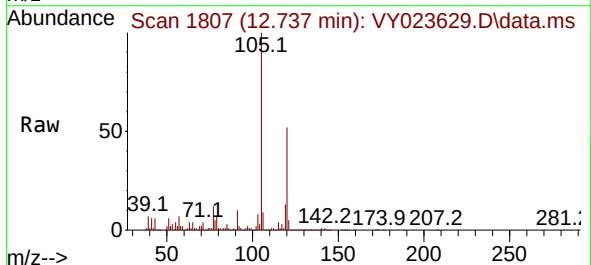
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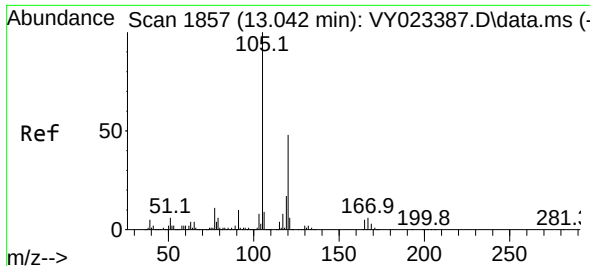
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025



#80
1,3,5-Trimethylbenzene
Concen: 224.721 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

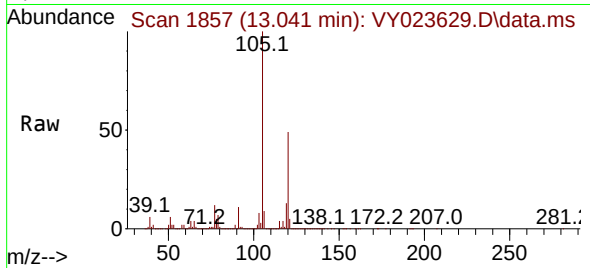
Tgt Ion:105 Resp: 1560664
Ion Ratio Lower Upper
105 100
120 50.9 25.4 76.4





#84
1,2,4-Trimethylbenzene
Concen: 854.882 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

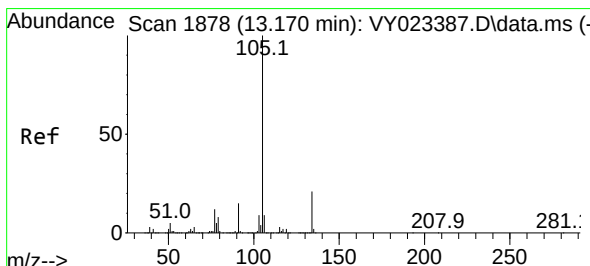
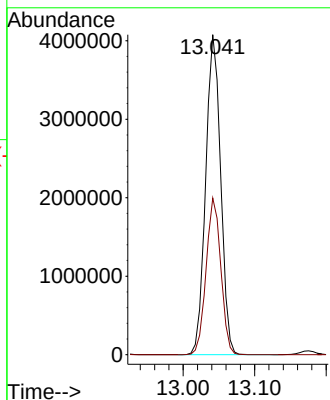
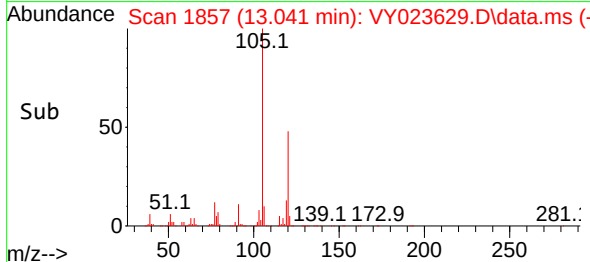
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310



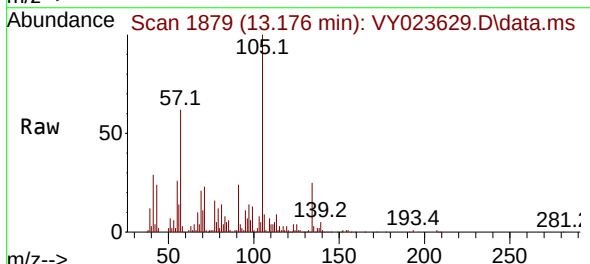
Tgt Ion:105 Resp: 592515
Ion Ratio Lower Upper
105 100
120 48.1 23.8 71.2

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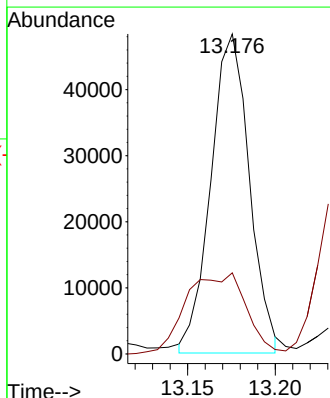
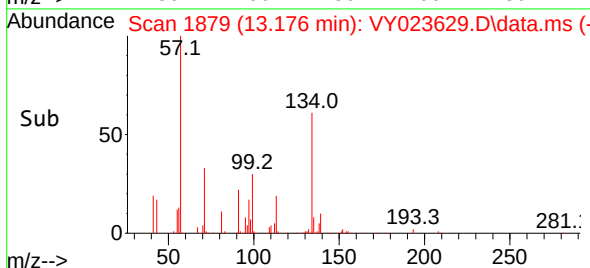
Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025

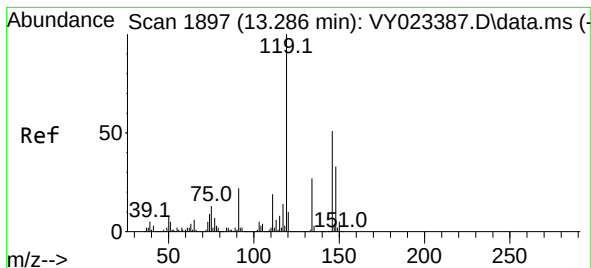


#85
sec-Butylbenzene
Concen: 8.025 ug/l m
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50



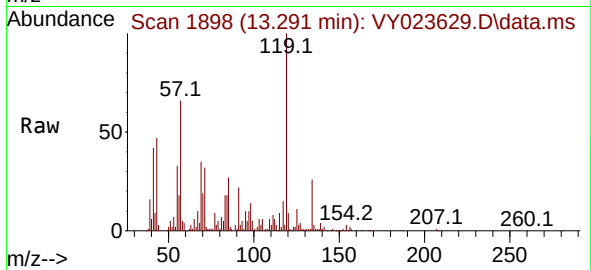
Tgt Ion:105 Resp: 73814
Ion Ratio Lower Upper
105 100
134 0.0 10.7 32.1#





#86
p-Isopropyltoluene
Concen: 5.935 ug/l m
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50

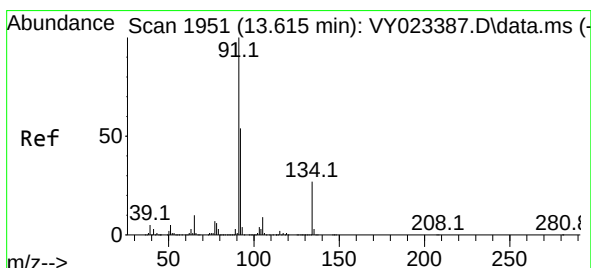
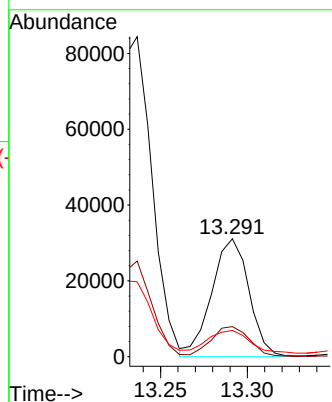
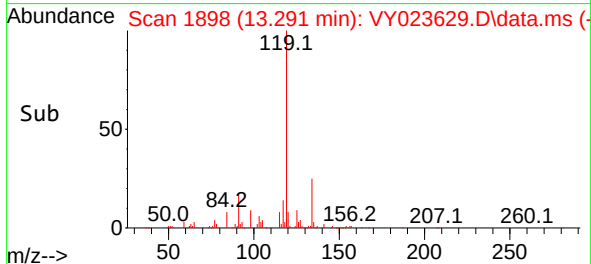
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0302-0310



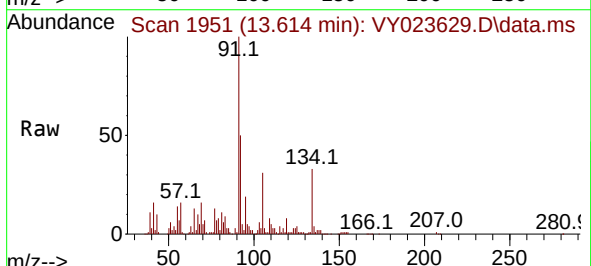
Tgt Ion: 119 Resp: 4648
Ion Ratio Lower Upper
119 100
134 77.7 13.6 40.7
91 59.0 10.9 32.9

Manual Integrations
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Reviewed By :Amit Patel 10/31/2025
Supervised By :Mahesh Dadoda 10/31/2025



#89
n-Butylbenzene
Concen: 8.423 ug/l
RT: 13.614 min Scan# 1951
Delta R.T. -0.000 min
Lab File: VY023629.D
Acq: 30 Oct 2025 13:50



Tgt Ion: 91 Resp: 57478
Ion Ratio Lower Upper
91 100
92 77.2 27.0 80.8
134 0.0 14.1 42.2

