

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070825\
 Data File : VY022983.D
 Acq On : 08 Jul 2025 18:10
 Operator : SY/MD
 Sample : Q2480-02
 Misc : 6.18g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 GPX2

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/09/2025
 Supervised By :Semsettin Yesilyurt 07/09/2025

Quant Time: Jul 09 02:35:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	323213	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	600118	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	719431	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	367703	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	167323	46.383	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	92.760%		
35) Dibromofluoromethane	7.634	113	168156	46.075	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	92.140%		
50) Toluene-d8	10.103	98	1179385	81.437	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	162.880%#		
62) 4-Bromofluorobenzene	12.401	95	525027	112.774	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	225.540%#		
Target Compounds					Qvalue	
20) Methylene Chloride	4.610	84	48845	11.344	ug/l	91
31) Cyclohexane	7.695	56	1584339	255.698	ug/l	87
39) Methylcyclohexane	9.109	83	6139551	857.613	ug/l	98
64) Tetrachloroethene	10.646	164	34369	5.057	ug/l	92
67) Ethyl Benzene	11.517	91	318436	11.465	ug/l	99
68) m/p-Xylenes	11.627	106	479709	44.679	ug/l	97
69) o-Xylene	11.950	106	1092078	107.948	ug/l	99
73) Isopropylbenzene	12.249	105	726967	26.733	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	11901976	542.162	ug/l	90
83) tert-Butylbenzene	12.993	119	94793	4.896	ug/l	85
84) 1,2,4-Trimethylbenzene	13.042	105	1297150	59.018	ug/l	99
85) sec-Butylbenzene	13.170	105	536468	18.417	ug/l	# 64
86) p-Isopropyltoluene	13.285	119	1384778	57.126	ug/l	98
89) n-Butylbenzene	13.608	91	110683m	4.854	ug/l	
95) Naphthalene	15.139	128	1357945	121.913	ug/l	98

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

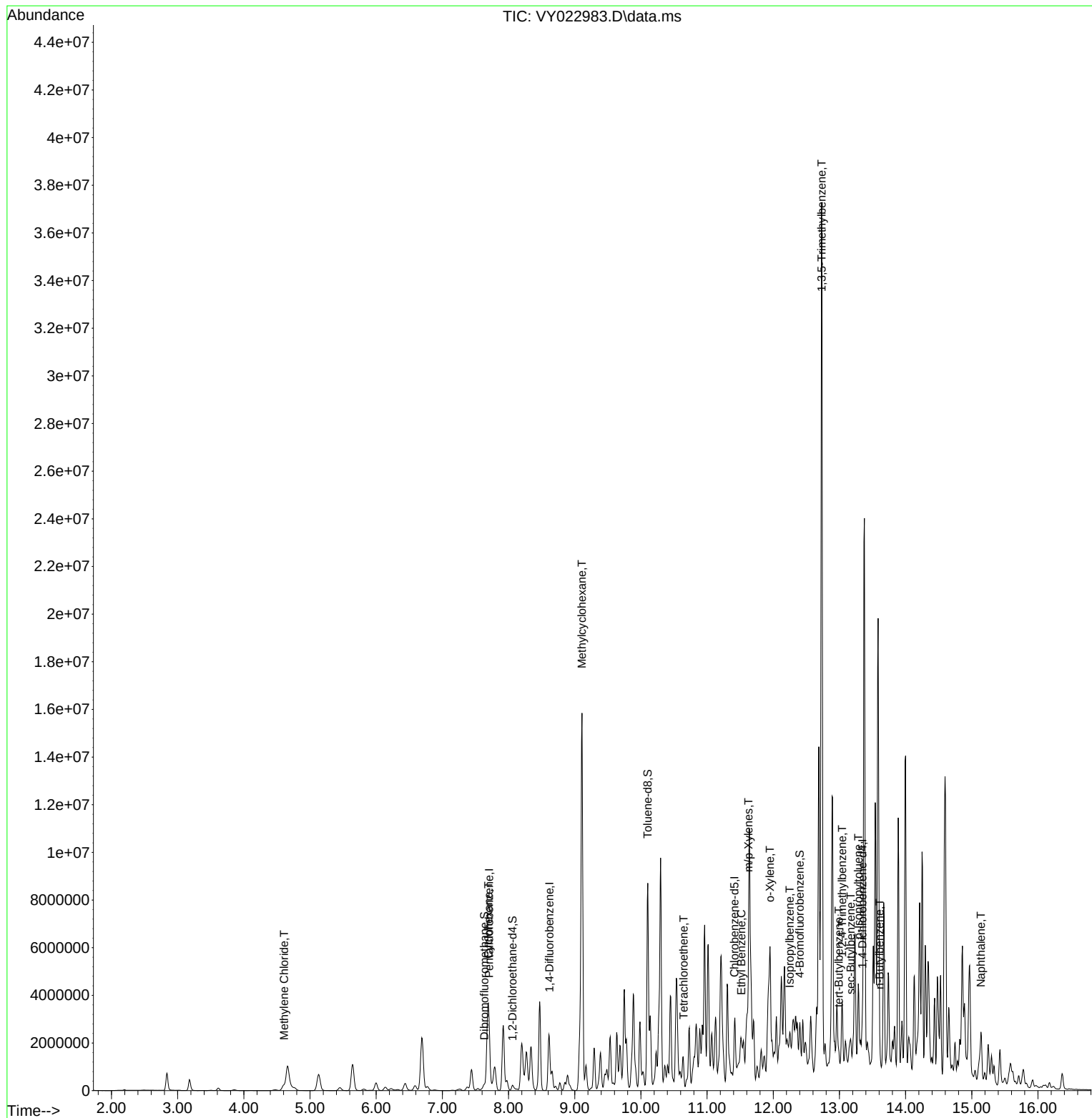
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070825\
Data File : VY022983.D
Acq On : 08 Jul 2025 18:10
Operator : SY/MD
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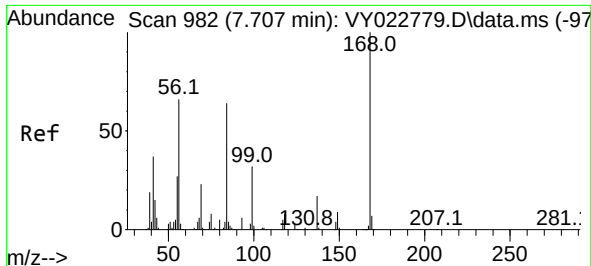
Instrument :
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ClientSampleId :
GPX2

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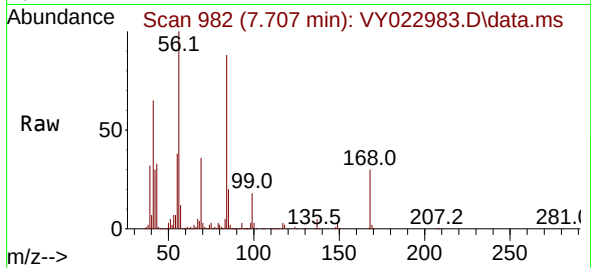
Quant Time: Jul 09 02:35:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

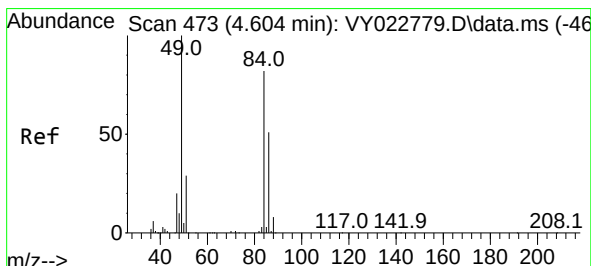
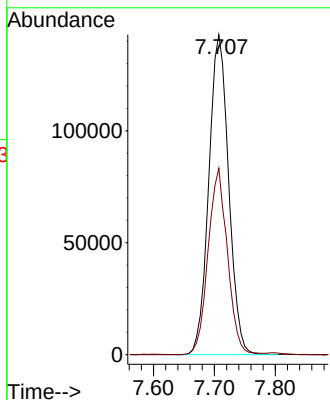
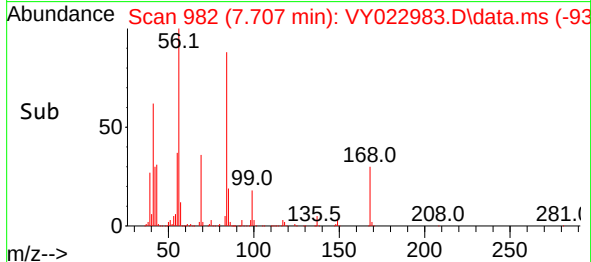
Instrument :
MSVOA_Y
ClientSampleId :
GPX2



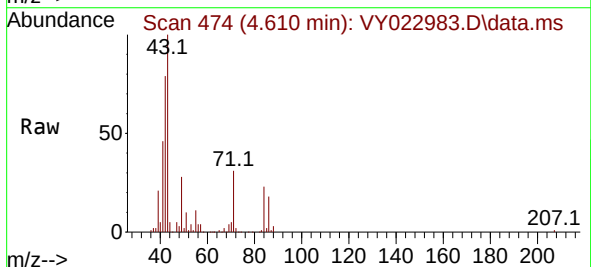
Tgt Ion:168 Resp: 32321
Ion Ratio Lower Upper
168 100
99 58.3 44.3 66.5

Manual Integrations
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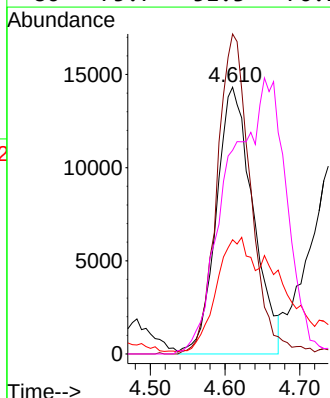
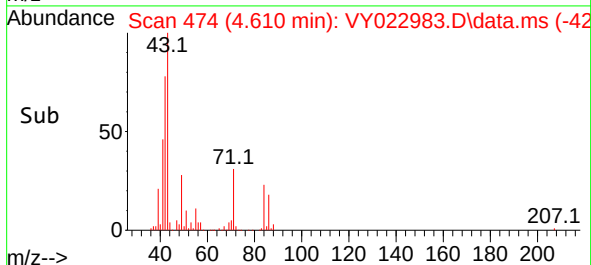
Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025

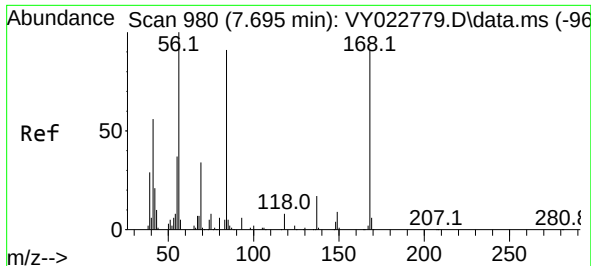


#20
Methylene Chloride
Concen: 11.344 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10



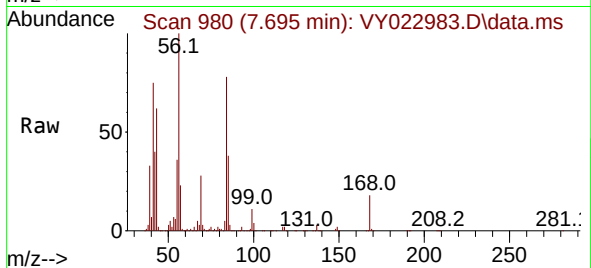
Tgt Ion: 84 Resp: 48845
Ion Ratio Lower Upper
84 100
49 121.0 101.9 152.9
51 42.5 29.8 44.8
86 75.7 51.3 76.9





#31
Cyclohexane
Concen: 255.698 ug/l
RT: 7.695 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

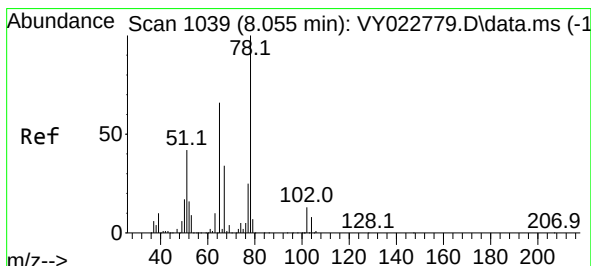
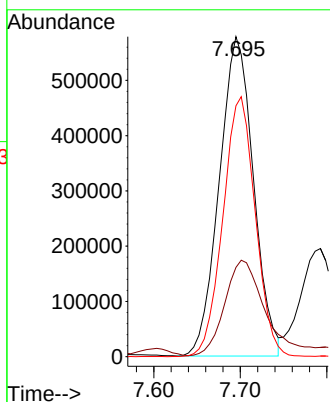
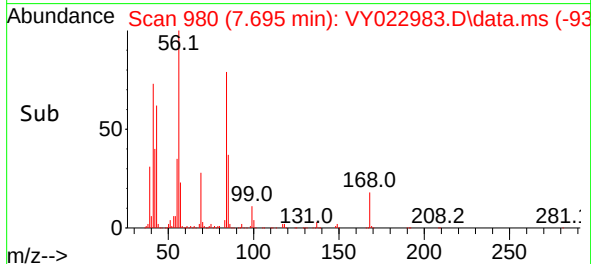
Instrument :
MSVOA_Y
ClientSampleId :
GPX2



Tgt Ion: 56 Resp: 1584339
Ion Ratio Lower Upper
56 100
69 27.1 27.0 40.6
84 78.5 72.6 109.0

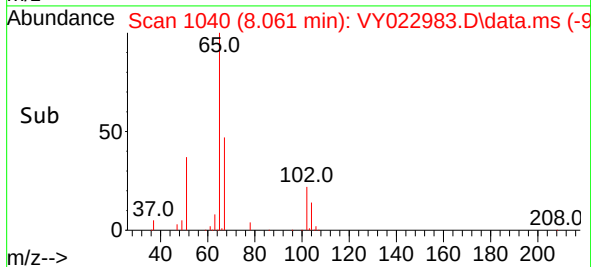
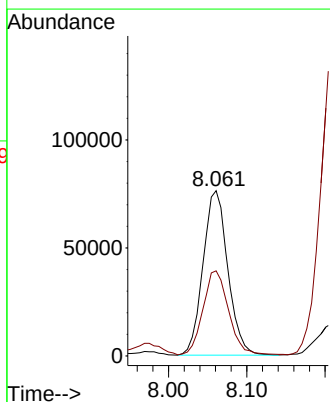
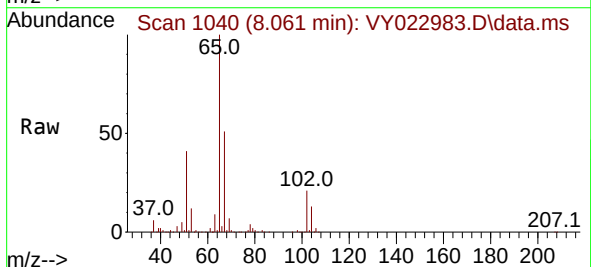
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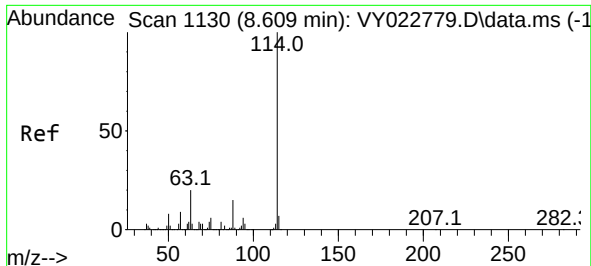
Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025



#33
1,2-Dichloroethane-d4
Concen: 46.383 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

Tgt Ion: 65 Resp: 167323
Ion Ratio Lower Upper
65 100
67 52.4 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VY022983.D

Acq: 08 Jul 2025 18:10

Instrument :

MSVOA_Y

ClientSampleId :

GPX2

Tgt Ion:114 Resp: 600118

Ion Ratio Lower Upper

114 100

63 22.8 0.0 40.8

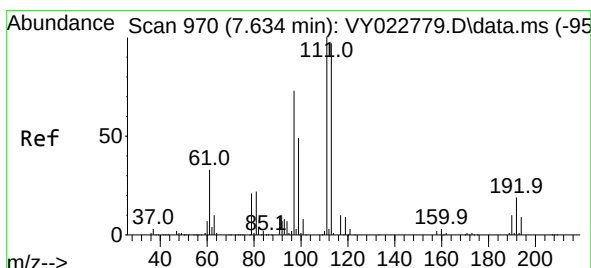
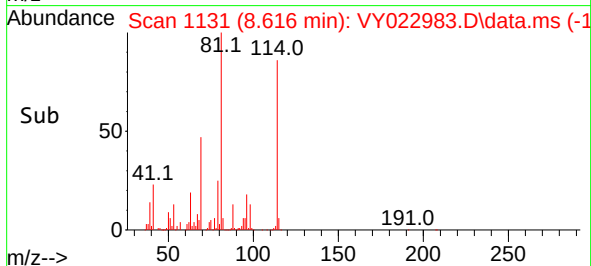
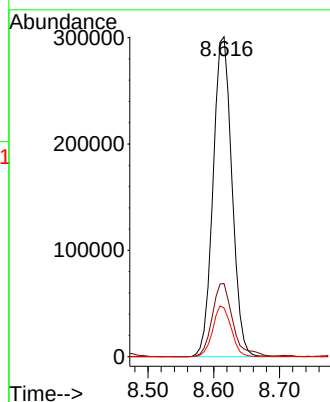
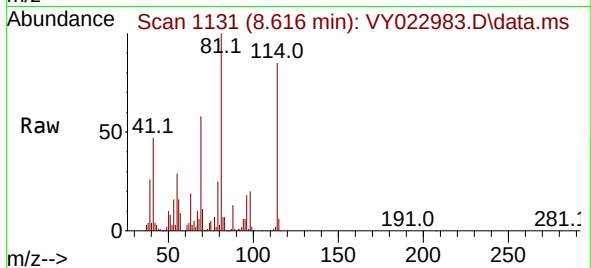
88 15.2 0.0 27.8

Manual Integrations

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#35

Dibromofluoromethane

Concen: 46.075 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022983.D

Acq: 08 Jul 2025 18:10

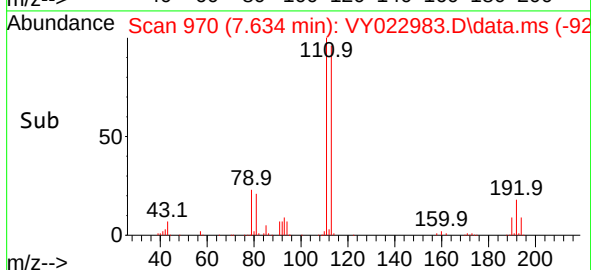
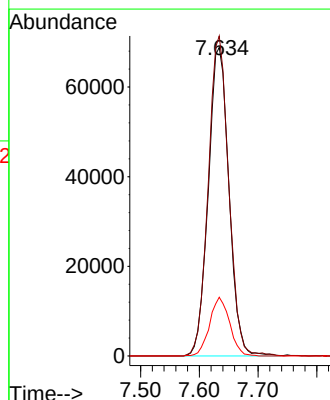
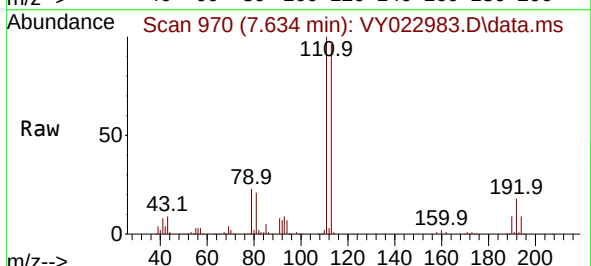
Tgt Ion:113 Resp: 168156

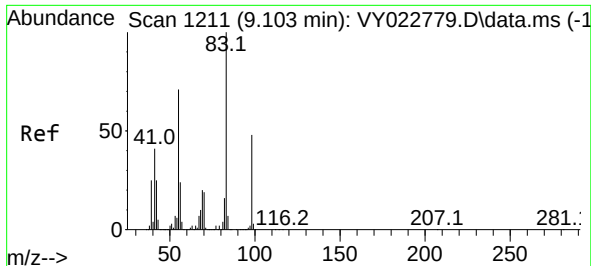
Ion Ratio Lower Upper

113 100

111 102.6 81.1 121.7

192 18.4 14.2 21.2





#39

Methylcyclohexane

Concen: 857.613 ug/l

RT: 9.109 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VY022983.D

Acq: 08 Jul 2025 18:10

Instrument :

MSVOA_Y

ClientSampleId :

GPX2

Tgt Ion: 83 Resp: 613955

Ion Ratio Lower Upper

83 100

55 74.3 58.1 87.1

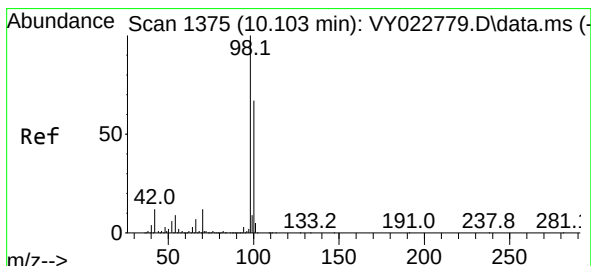
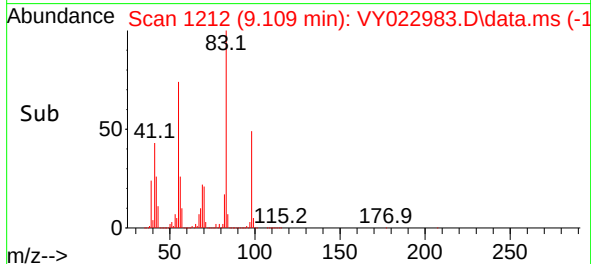
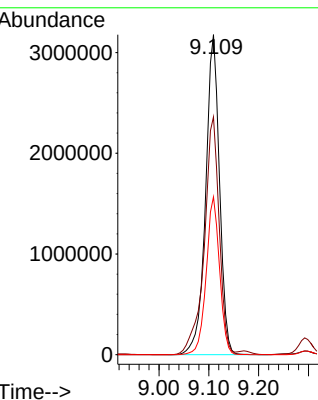
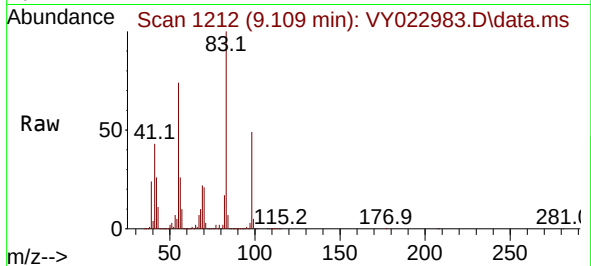
98 49.3 39.0 58.6

Manual Integrations

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#50

Toluene-d8

Concen: 81.437 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY022983.D

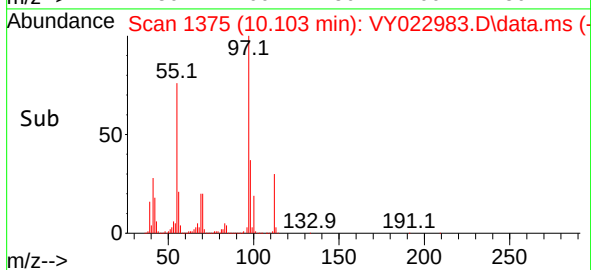
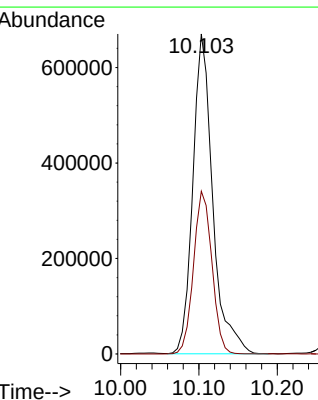
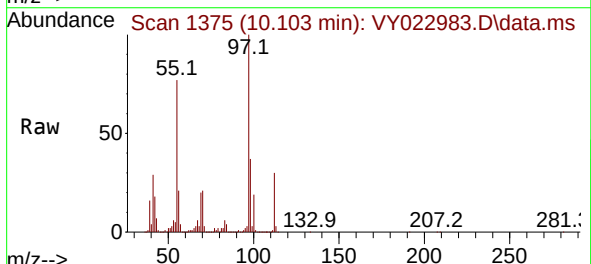
Acq: 08 Jul 2025 18:10

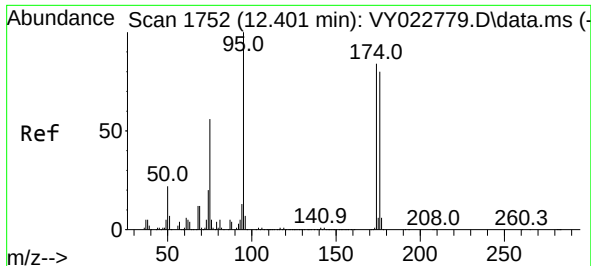
Tgt Ion: 98 Resp: 1179385

Ion Ratio Lower Upper

98 100

100 47.1 51.4 77.0#





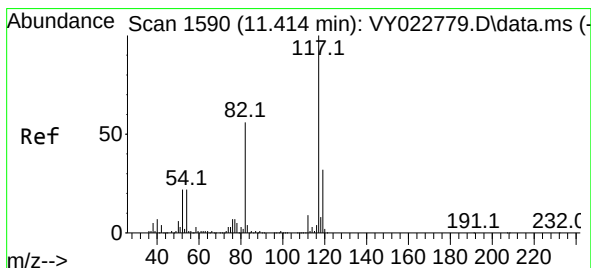
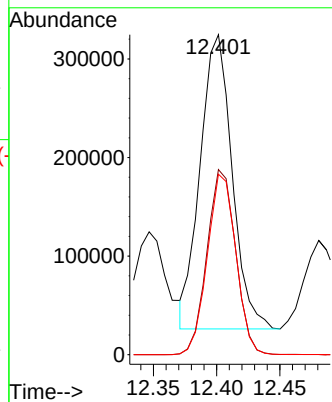
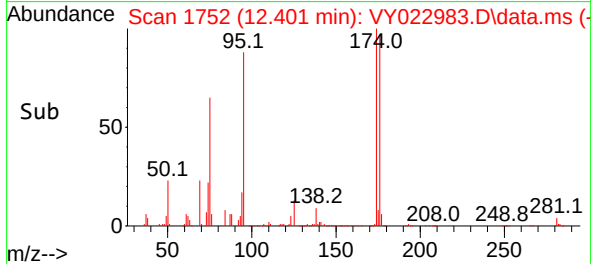
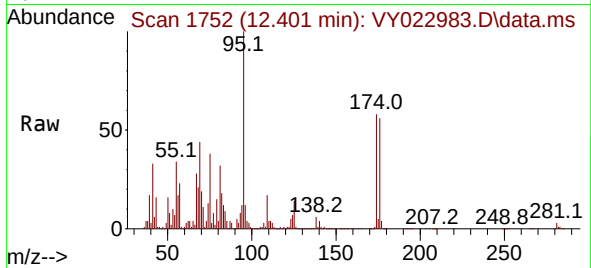
#62
4-Bromofluorobenzene
Concen: 112.774 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

Instrument :
MSVOA_Y
ClientSampleId :
GPX2

Tgt Ion: 95 Resp: 52502
Ion Ratio Lower Upper
95 100
174 56.5 0.0 170.0
176 54.8 0.0 166.2

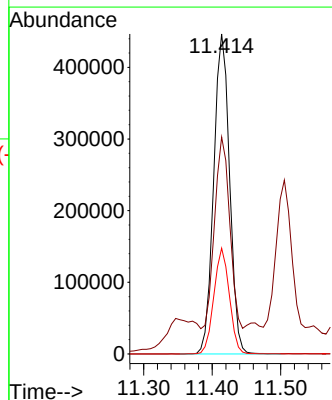
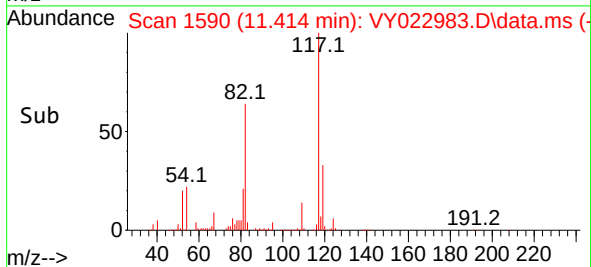
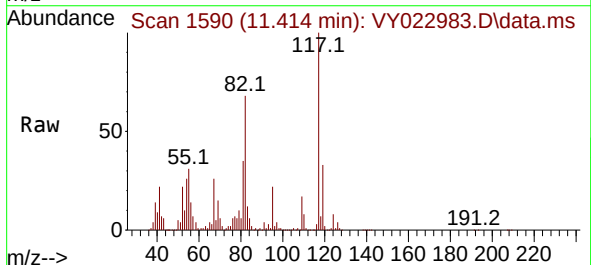
Manual Integrations
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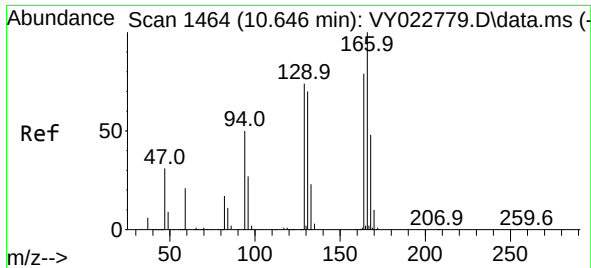
Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

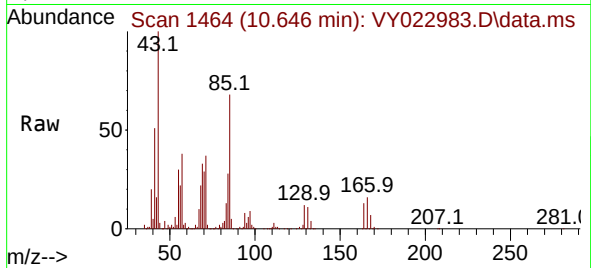
Tgt Ion:117 Resp: 719431
Ion Ratio Lower Upper
117 100
82 57.1 44.6 66.8
119 33.0 25.4 38.0





#64
Tetrachloroethene
Concen: 5.057 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

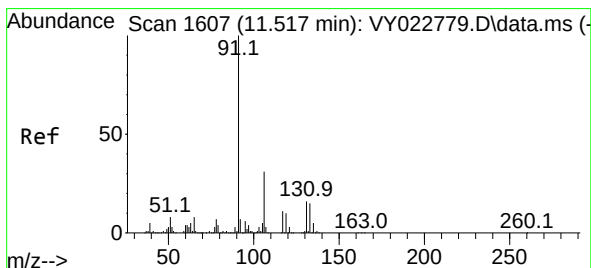
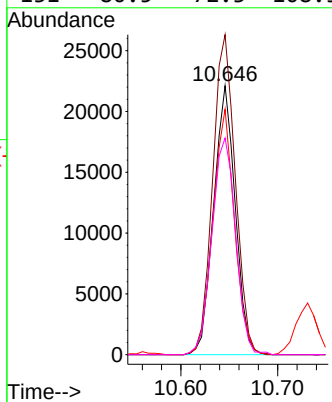
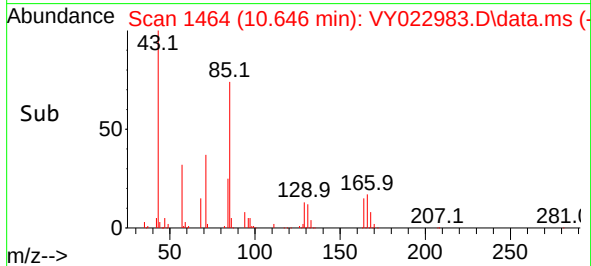
Instrument :
MSVOA_Y
ClientSampleId :
GPX2



Tgt Ion:164 Resp: 34369
Ion Ratio Lower Upper
164 100
166 118.9 104.0 156.0
129 91.2 74.5 111.7
131 80.5 72.3 108.5

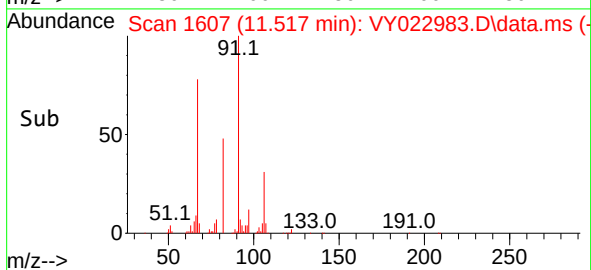
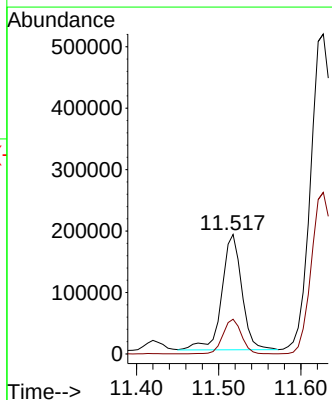
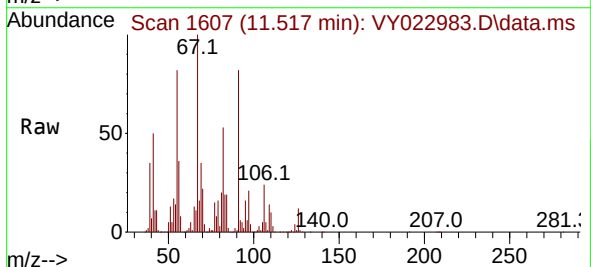
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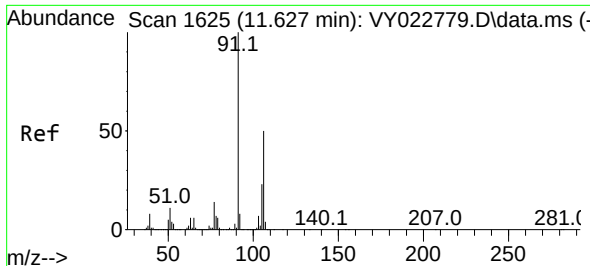
Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025



#67
Ethyl Benzene
Concen: 11.465 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

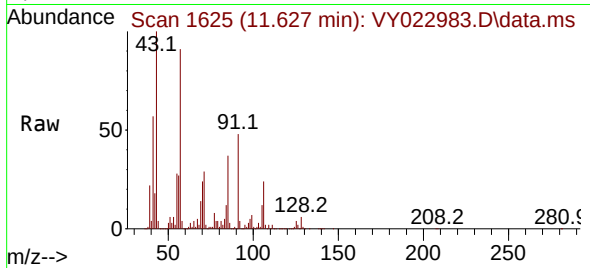
Tgt Ion: 91 Resp: 318436
Ion Ratio Lower Upper
91 100
106 30.0 24.2 36.4





#68
m/p-Xylenes
Concen: 44.679 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

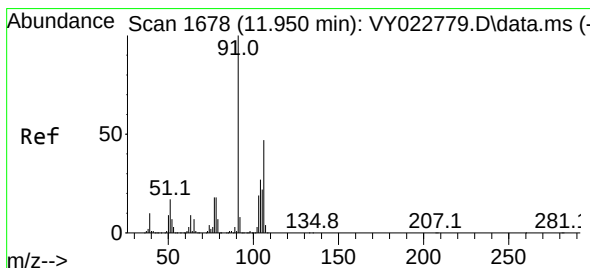
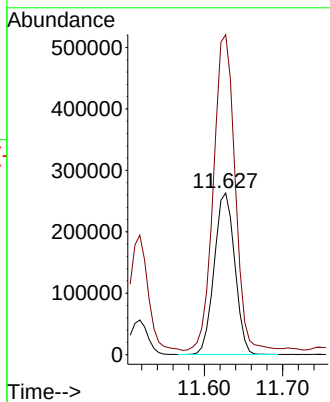
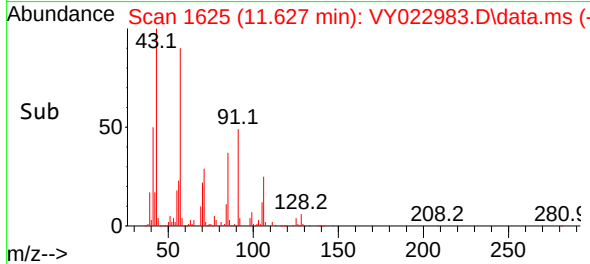
Instrument :
MSVOA_Y
ClientSampleId :
GPX2



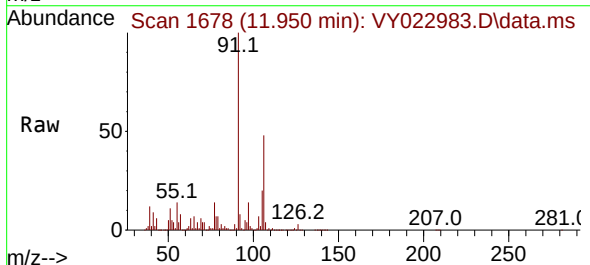
Tgt Ion:106 Resp: 479709
Ion Ratio Lower Upper
106 100
91 204.3 159.4 239.0

Manual Integrations
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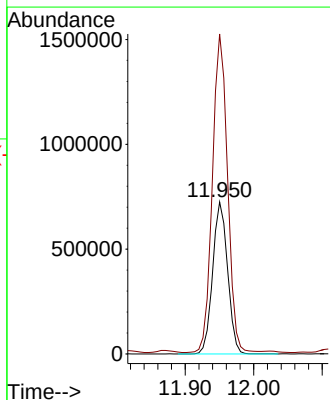
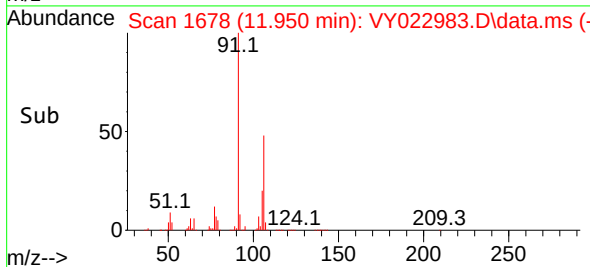
Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025

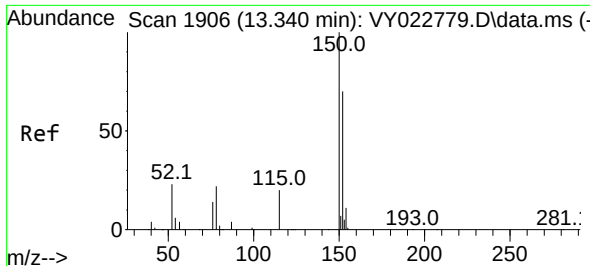


#69
o-Xylene
Concen: 107.948 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10



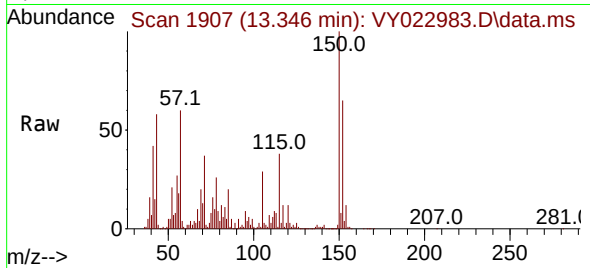
Tgt Ion:106 Resp: 1092078
Ion Ratio Lower Upper
106 100
91 212.9 105.8 317.3





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

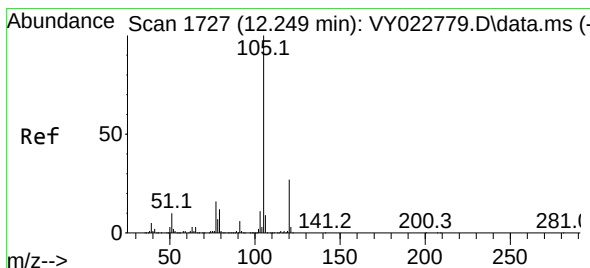
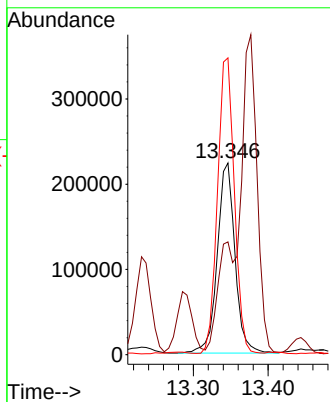
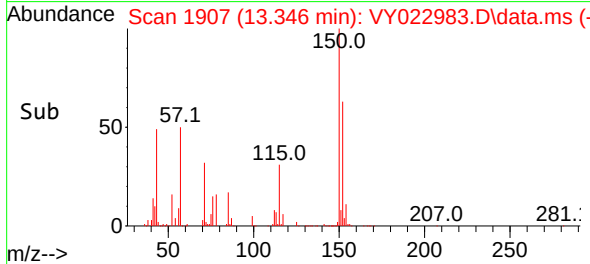
Instrument :
MSVOA_Y
ClientSampleId :
GPX2



Tgt Ion:152 Resp: 367700
Ion Ratio Lower Upper
152 100
115 0.0 28.9 86.7
150 147.8 0.0 349.6

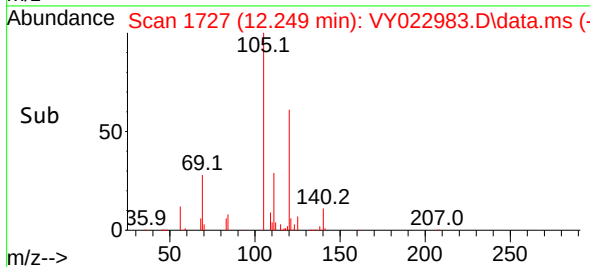
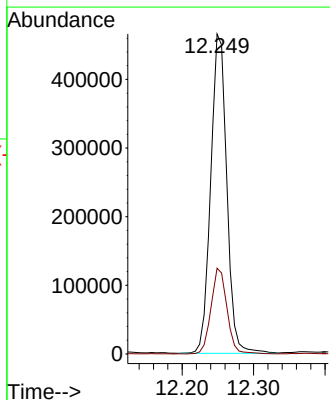
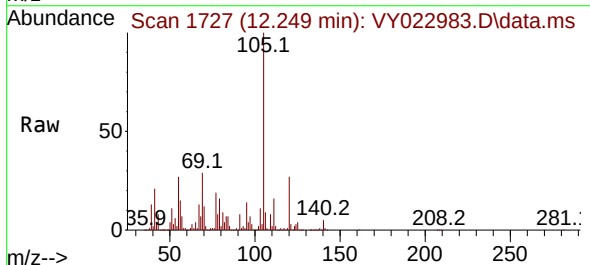
Manual Integrations
APPROVED

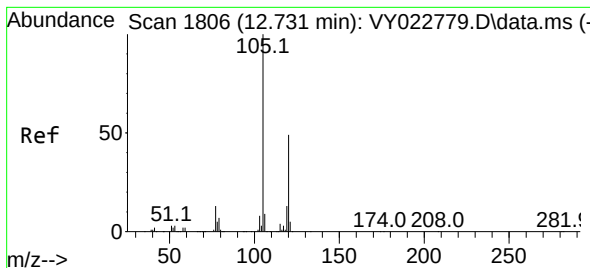
Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025



#73
Isopropylbenzene
Concen: 26.733 ug/l
RT: 12.249 min Scan# 1727
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

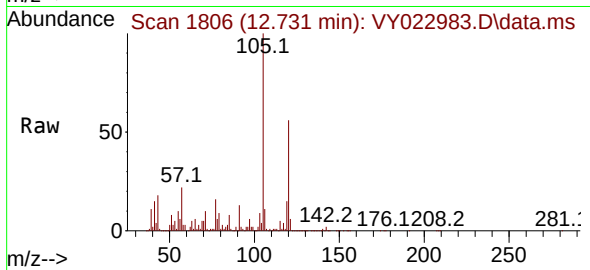
Tgt Ion:105 Resp: 726967
Ion Ratio Lower Upper
105 100
120 26.6 13.0 38.9





#80
1,3,5-Trimethylbenzene
Concen: 542.162 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

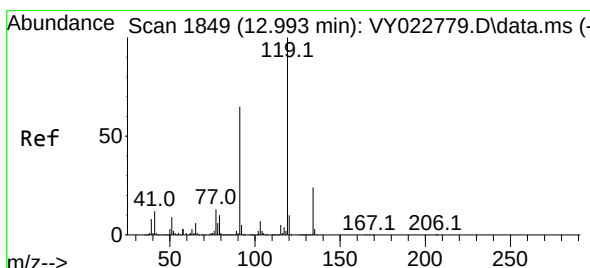
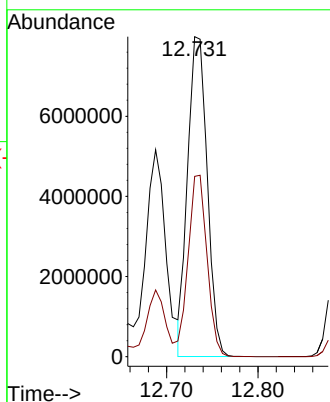
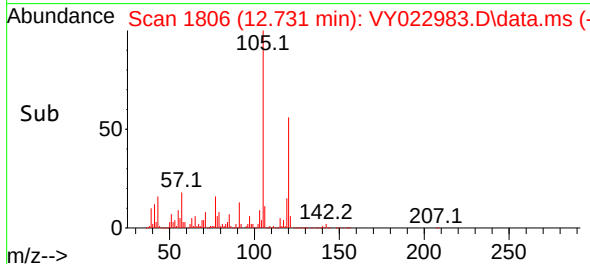
Instrument :
MSVOA_Y
ClientSampleId :
GPX2



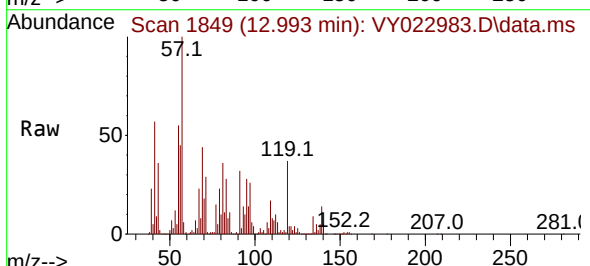
Tgt Ion:105 Resp:11901970
Ion Ratio Lower Upper
105 100
120 55.4 24.1 72.4

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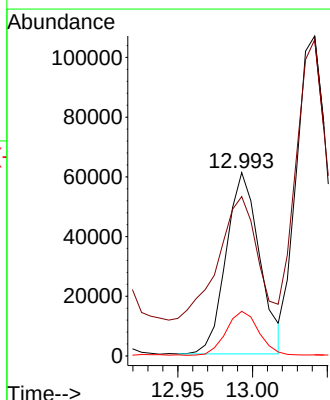
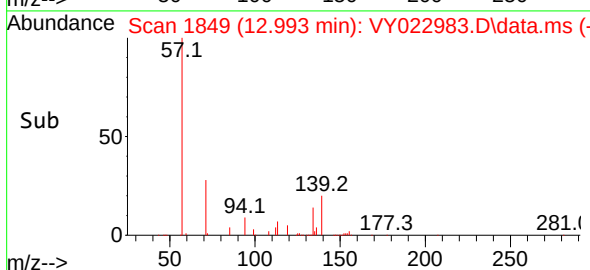
Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025

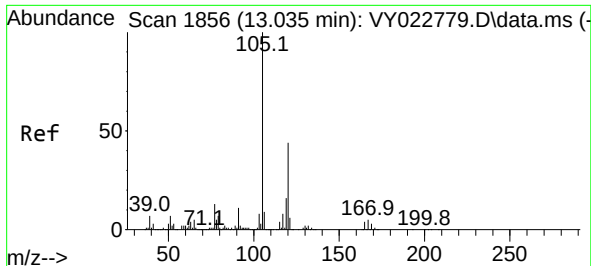


#83
tert-Butylbenzene
Concen: 4.896 ug/l
RT: 12.993 min Scan# 1849
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10



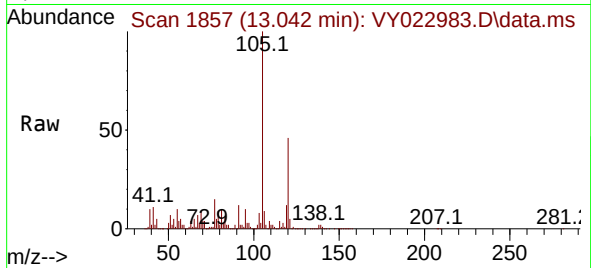
Tgt Ion:119 Resp: 94793
Ion Ratio Lower Upper
119 100
91 78.9 32.1 96.3
134 23.7 13.0 38.9





#84
1,2,4-Trimethylbenzene
Concen: 59.018 ug/l
RT: 13.042 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

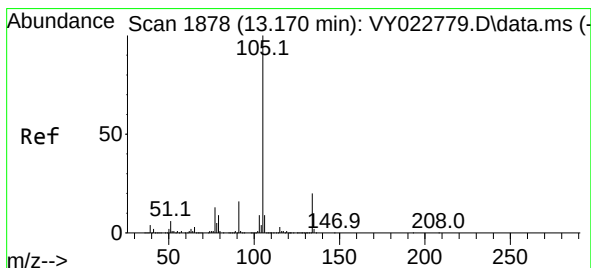
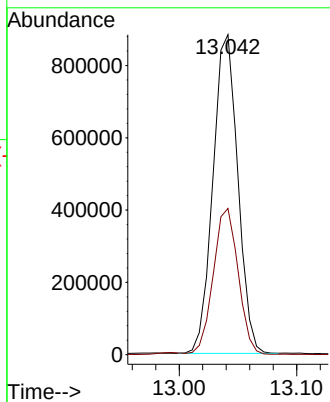
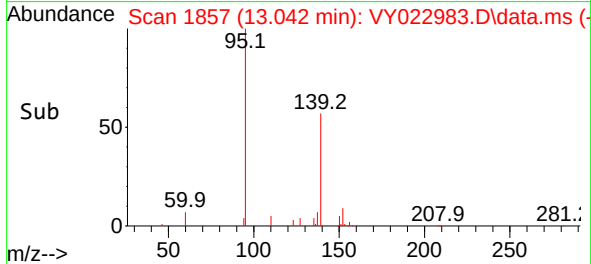
Instrument :
MSVOA_Y
ClientSampleId :
GPX2



Tgt Ion:105 Resp: 1297150
Ion Ratio Lower Upper
105 100
120 46.2 22.7 68.1

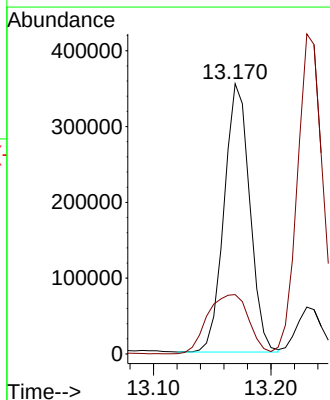
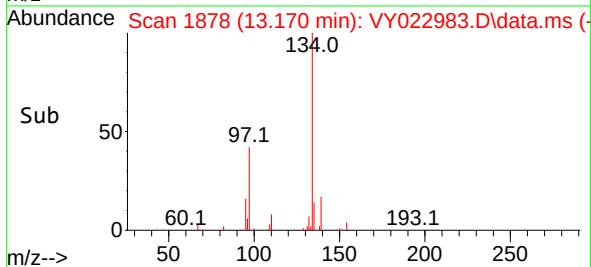
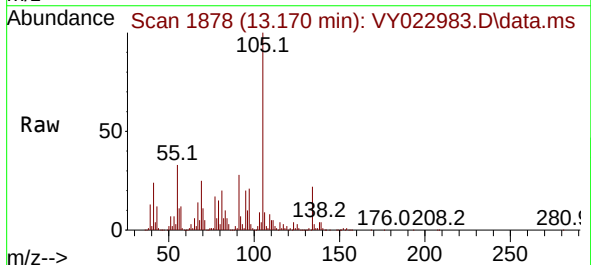
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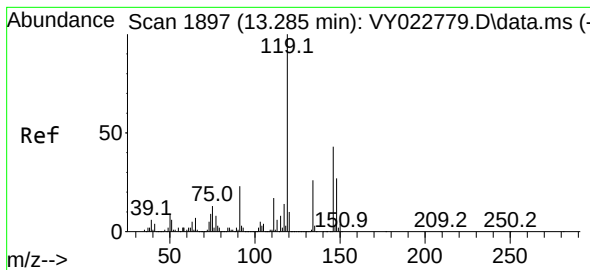
Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025



#85
sec-Butylbenzene
Concen: 18.417 ug/l
RT: 13.170 min Scan# 1878
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

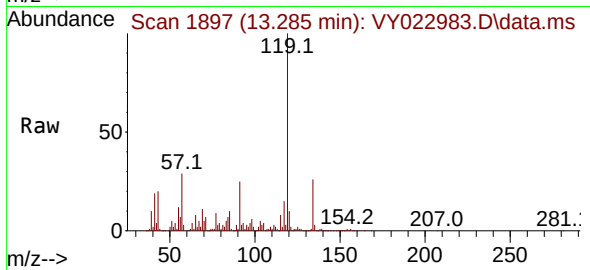
Tgt Ion:105 Resp: 536468
Ion Ratio Lower Upper
105 100
134 35.5 9.7 28.9#





#86
p-Isopropyltoluene
Concen: 57.126 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

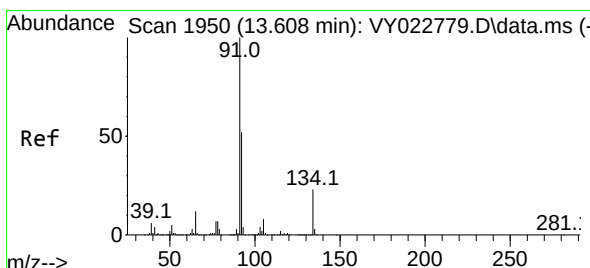
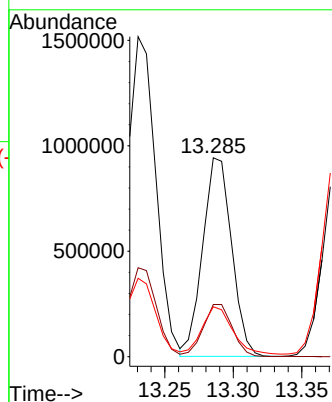
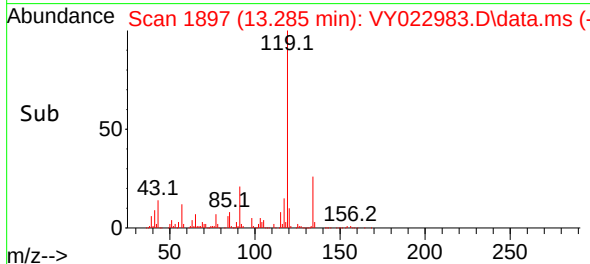
Instrument :
MSVOA_Y
ClientSampleId :
GPX2



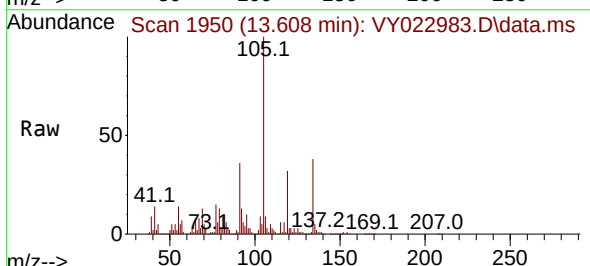
Tgt Ion:119 Resp: 1384778
Ion Ratio Lower Upper
119 100
134 26.3 13.1 39.1
91 24.6 11.6 34.8

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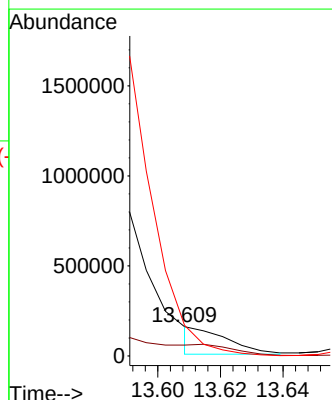
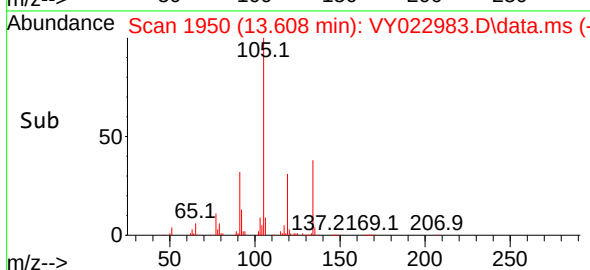
Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025

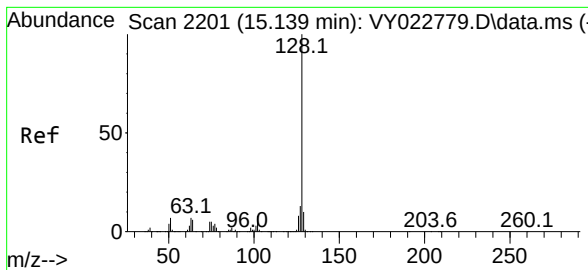


#89
n-Butylbenzene
Concen: 4.854 ug/l m
RT: 13.608 min Scan# 1950
Delta R.T. -0.012 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10



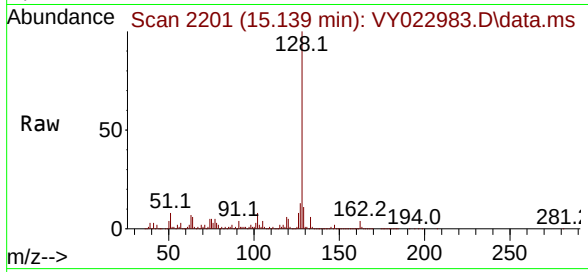
Tgt Ion: 91 Resp: 110683
Ion Ratio Lower Upper
91 100
92 257.7 25.9 77.8#
134 3096.0 12.0 36.1#





#95
Naphthalene
Concen: 121.913 ug/l
RT: 15.139 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022983.D
Acq: 08 Jul 2025 18:10

Instrument :
MSVOA_Y
ClientSampleId :
GPX2



Tgt Ion:128 Resp: 1357945
Ion Ratio Lower Upper
128 100
127 13.6 10.4 15.6
129 12.3 8.9 13.3

Manual Integrations
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Reviewed By :Mahesh Dadoda 07/09/2025
Supervised By :Semsettin Yesilyurt 07/09/2025

