

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101625\
 Data File : VY023486.D
 Acq On : 16 Oct 2025 12:57
 Operator : SY/MD
 Sample : Q3363-01
 Misc : 5.55g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-SO1-085011-20251015

Quant Time: Oct 17 01:55:38 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

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

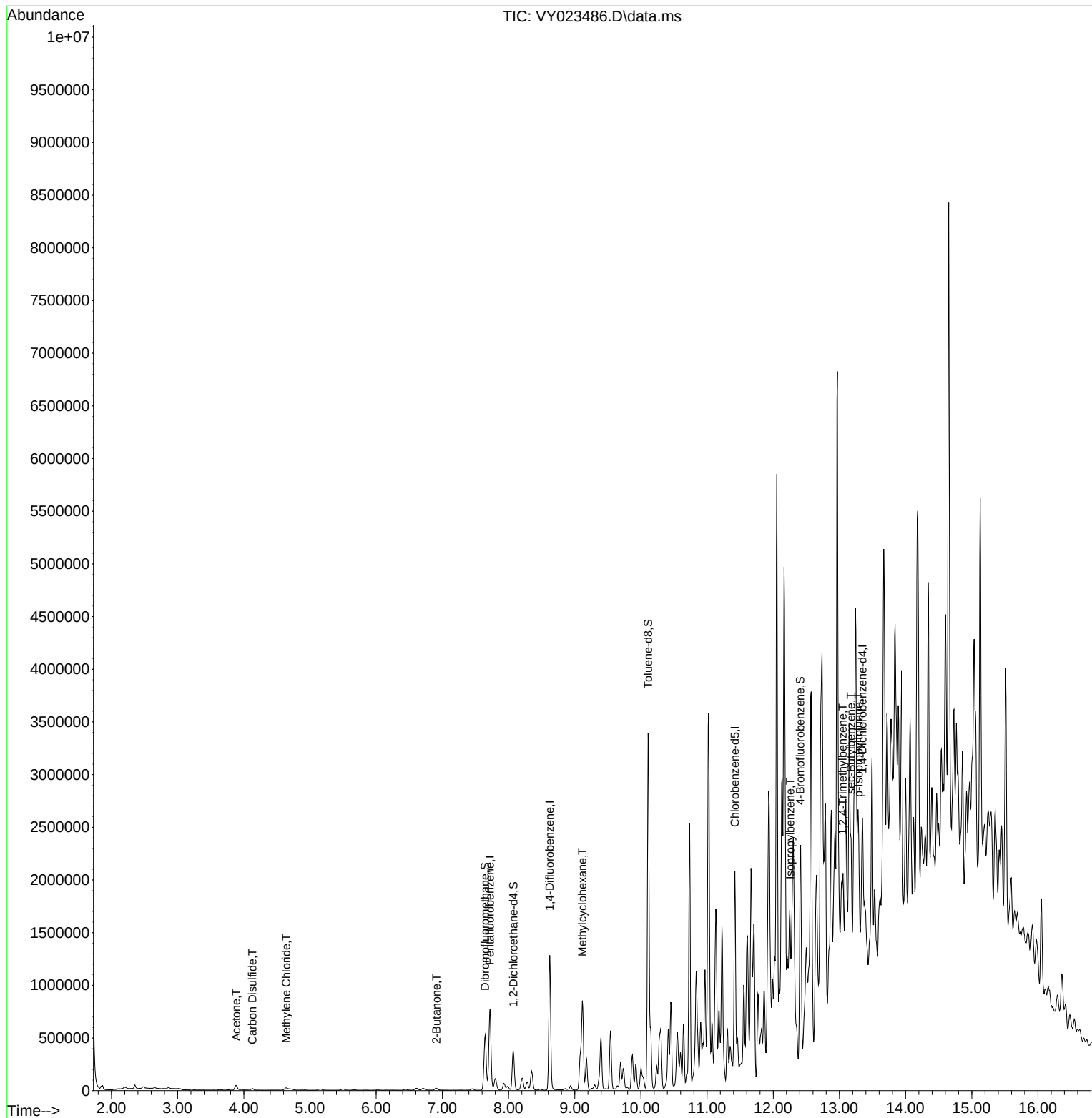
Internal Standards						
1) Pentafluorobenzene	7.719	168	607130	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	1157199	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1063112	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	376450	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	295066	58.119	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 116.240%	
35) Dibromofluoromethane	7.646	113	379276	53.341	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.680%	
50) Toluene-d8	10.109	98	1462096	55.215	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 110.440%	
62) 4-Bromofluorobenzene	12.408	95	447422	51.179	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 102.360%	
Target Compounds						
					Qvalue	
16) Acetone	3.885	43	76866	63.596	ug/l	97
17) Carbon Disulfide	4.129	76	29960	1.933	ug/l #	95
20) Methylene Chloride	4.641	84	15615	2.389	ug/l	96
25) 2-Butanone	6.909	43	28408	19.252	ug/l	91
39) Methylcyclohexane	9.115	83	340108	27.749	ug/l	94
73) Isopropylbenzene	12.255	105	35296	1.423	ug/l	96
84) 1,2,4-Trimethylbenzene	13.048	105	83529	4.175	ug/l	97
85) sec-Butylbenzene	13.176	105	42860	1.614	ug/l #	75
86) p-Isopropyltoluene	13.291	119	73852	3.267	ug/l	94

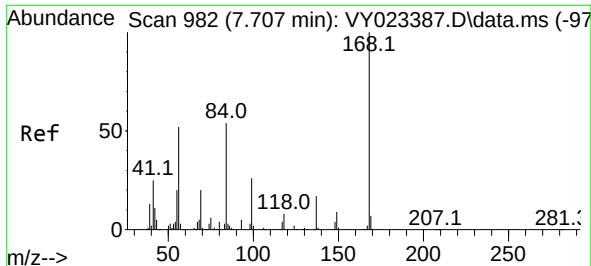
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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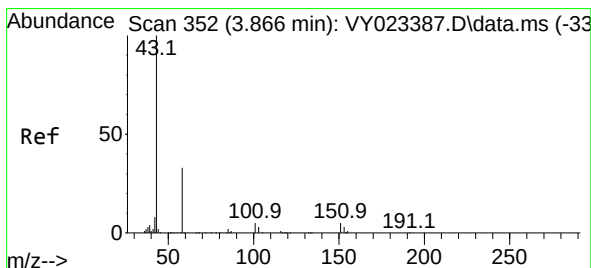
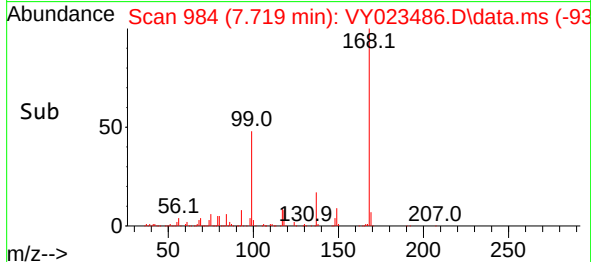
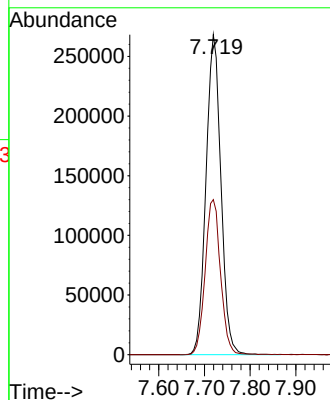
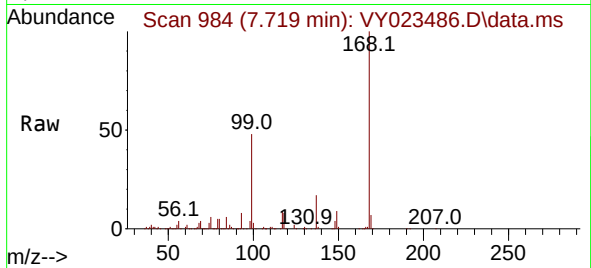




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 984
Delta R.T. 0.012 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

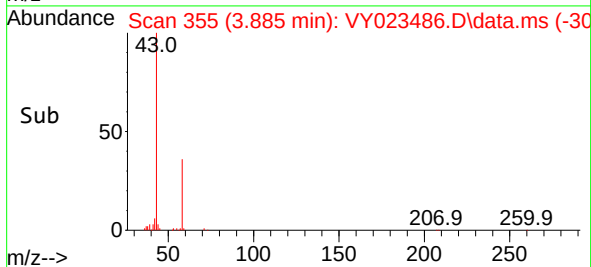
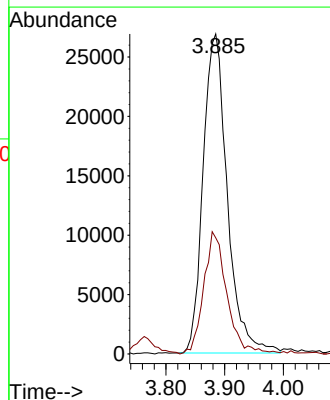
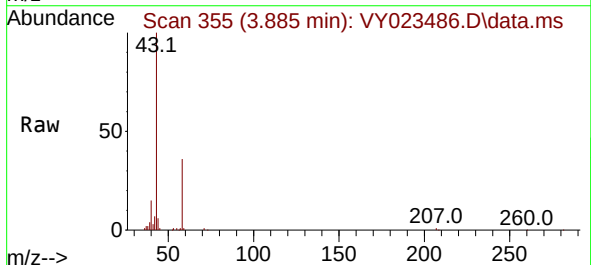
Instrument :
MSVOA_Y
ClientSampleId :
PR132-SO1-085011-20251015

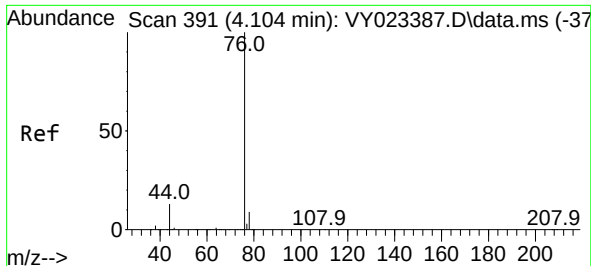
Tgt Ion:168 Resp: 607130
Ion Ratio Lower Upper
168 100
99 48.5 39.7 59.5



#16
Acetone
Concen: 63.596 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.018 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

Tgt Ion: 43 Resp: 76866
Ion Ratio Lower Upper
43 100
58 36.4 27.7 41.5

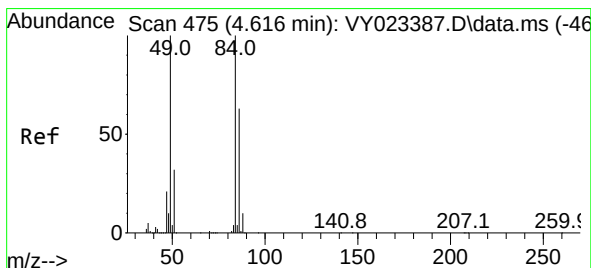
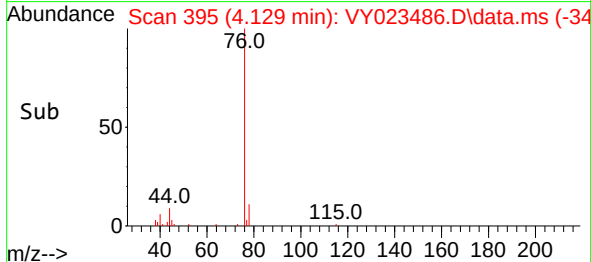
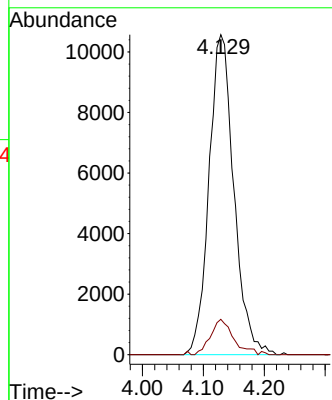
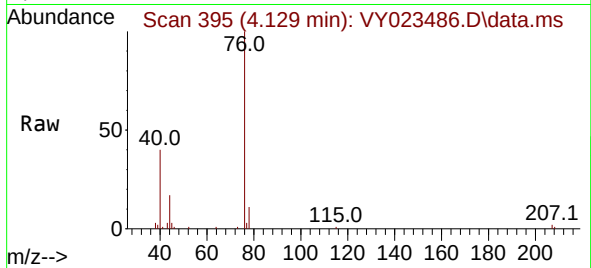




#17
Carbon Disulfide
Concen: 1.933 ug/l
RT: 4.129 min Scan# 391
Delta R.T. 0.024 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

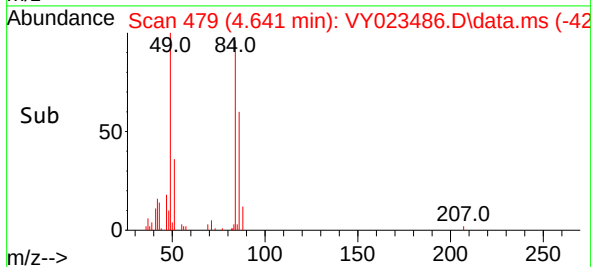
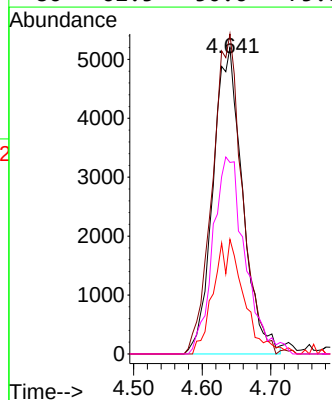
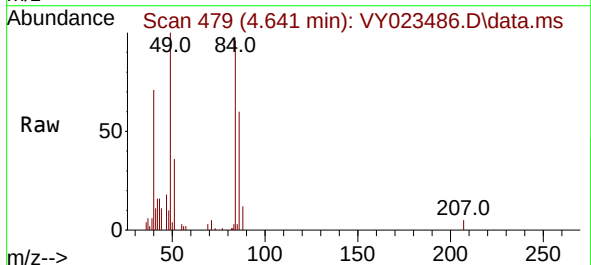
Instrument :
MSVOA_Y
ClientSampleId :
PR132-SO1-085011-20251015

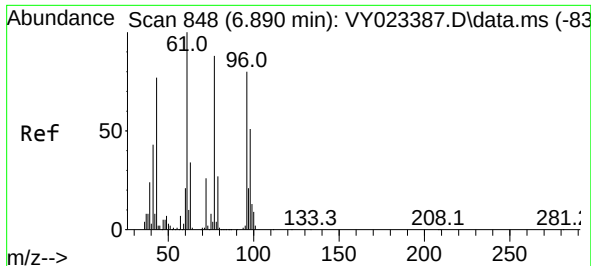
Tgt Ion: 76 Resp: 29960
Ion Ratio Lower Upper
76 100
78 11.0 7.3 10.9#



#20
Methylene Chloride
Concen: 2.389 ug/l
RT: 4.641 min Scan# 479
Delta R.T. 0.024 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

Tgt Ion: 84 Resp: 15615
Ion Ratio Lower Upper
84 100
49 104.4 80.2 120.4
51 37.3 25.9 38.9
86 62.5 50.6 75.8





#25

2-Butanone

Concen: 19.252 ug/l

RT: 6.909 min Scan# 848

Delta R.T. 0.018 min

Lab File: VY023486.D

Acq: 16 Oct 2025 12:57

Instrument :

MSVOA_Y

ClientSampleId :

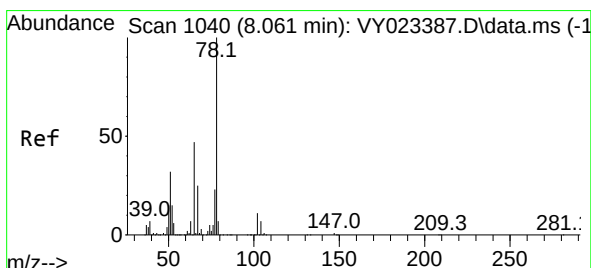
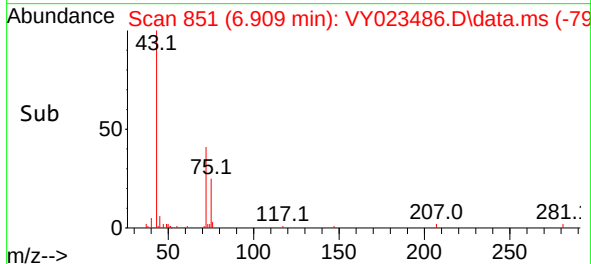
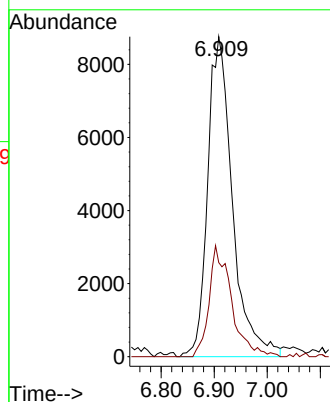
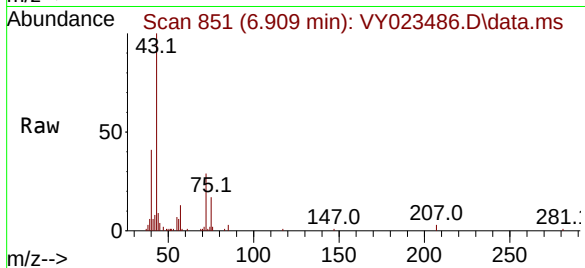
PR132-SO1-085011-20251015

Tgt Ion: 43 Resp: 28408

Ion Ratio Lower Upper

43 100

72 29.4 27.4 41.2



#33

1,2-Dichloroethane-d4

Concen: 58.119 ug/l

RT: 8.073 min Scan# 1042

Delta R.T. 0.012 min

Lab File: VY023486.D

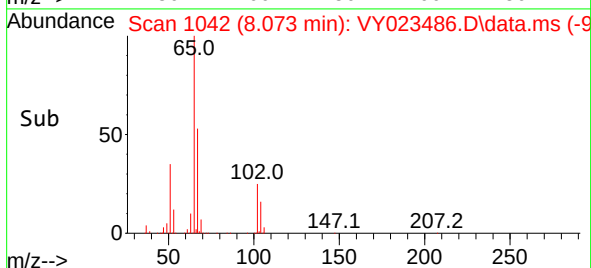
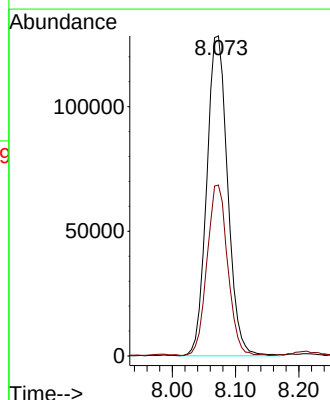
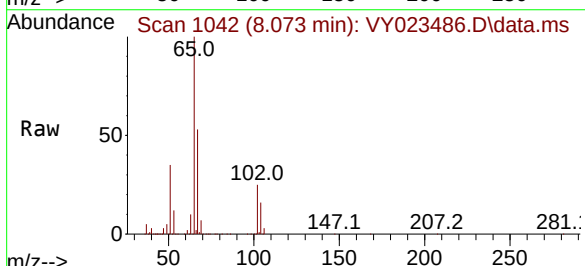
Acq: 16 Oct 2025 12:57

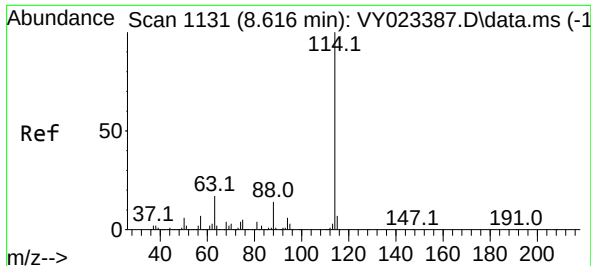
Tgt Ion: 65 Resp: 295066

Ion Ratio Lower Upper

65 100

67 52.7 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023486.D

Acq: 16 Oct 2025 12:57

Instrument :

MSVOA_Y

ClientSampleId :

PR132-SO1-085011-20251015

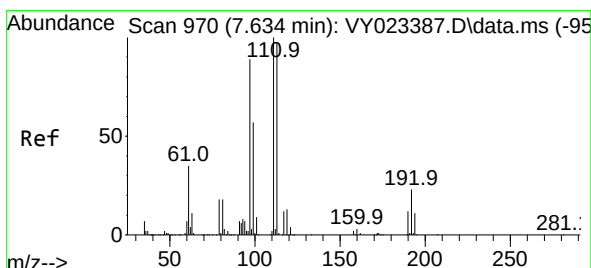
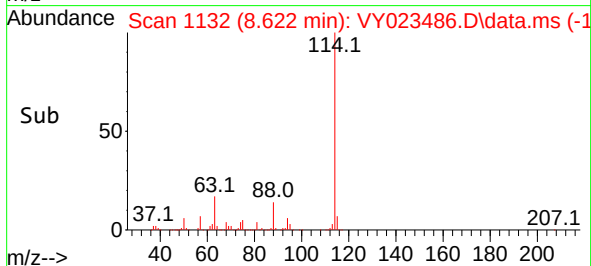
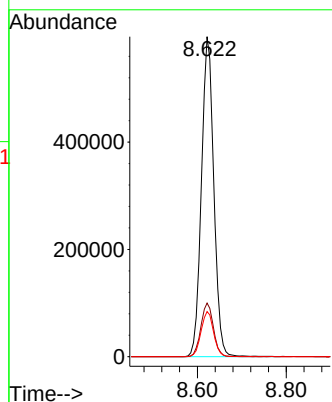
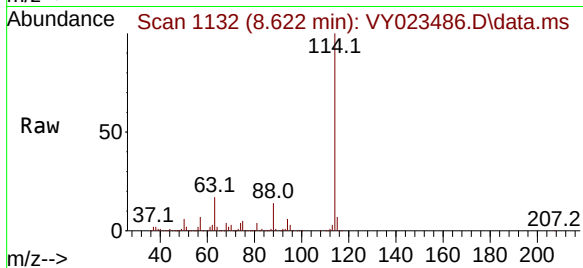
Tgt Ion:114 Resp: 1157199

Ion Ratio Lower Upper

114 100

63 16.8 0.0 34.2

88 14.1 0.0 28.4



#35

Dibromofluoromethane

Concen: 53.341 ug/l

RT: 7.646 min Scan# 972

Delta R.T. 0.012 min

Lab File: VY023486.D

Acq: 16 Oct 2025 12:57

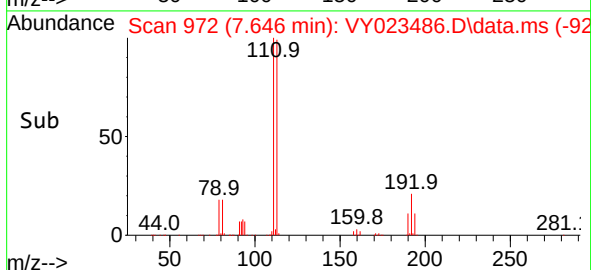
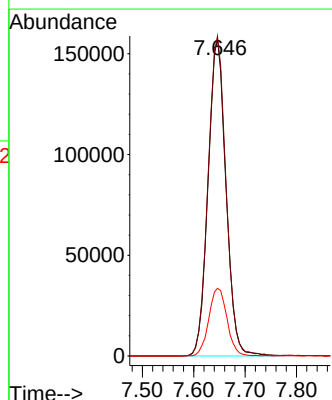
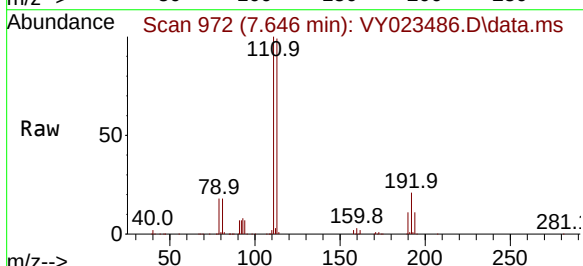
Tgt Ion:113 Resp: 379276

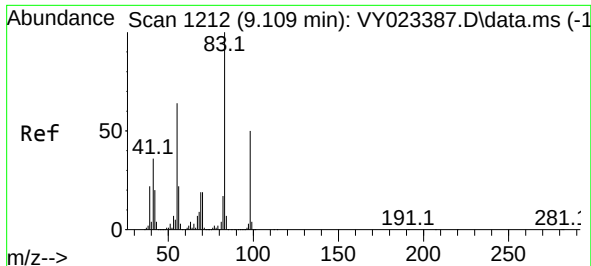
Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.6

192 21.8 18.0 27.0

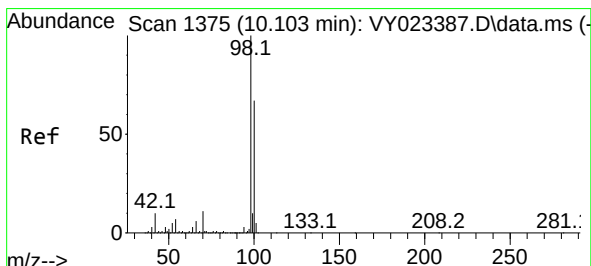
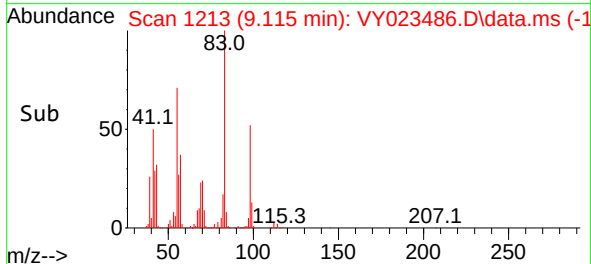
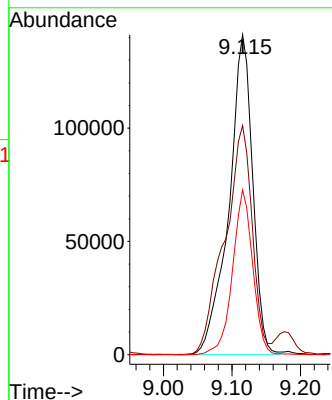
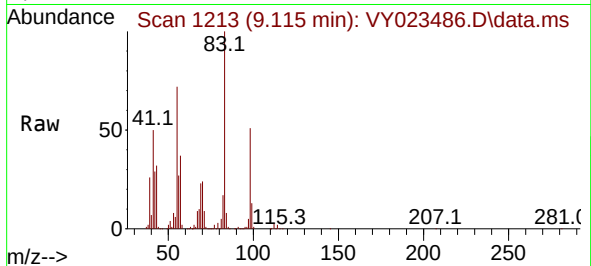




#39
Methylcyclohexane
Concen: 27.749 ug/l
RT: 9.115 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

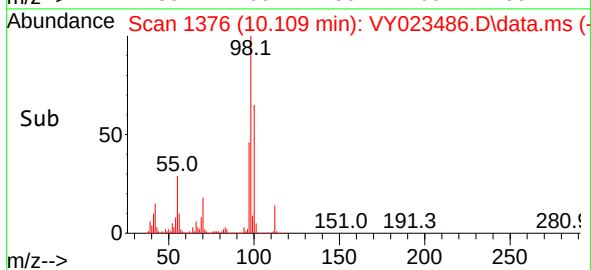
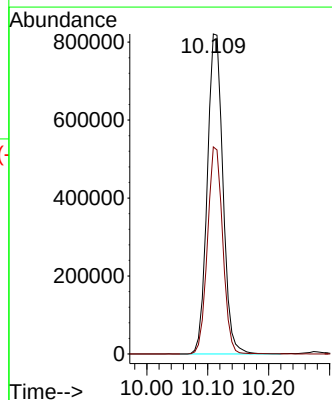
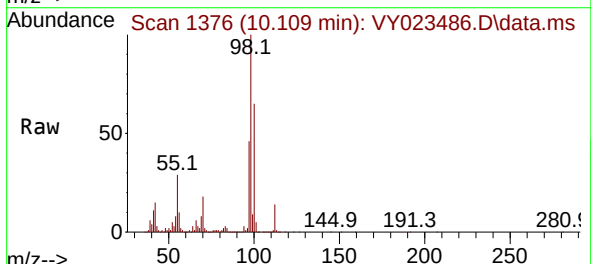
Instrument :
MSVOA_Y
ClientSampleId :
PR132-SO1-085011-20251015

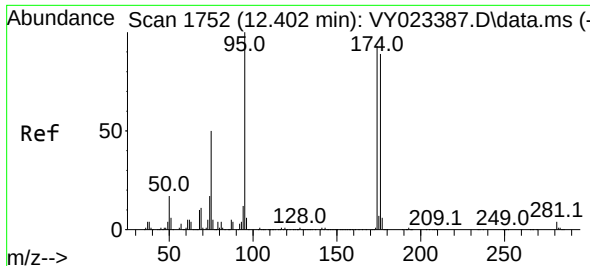
Tgt Ion: 83 Resp: 340108
Ion Ratio Lower Upper
83 100
55 71.5 51.4 77.2
98 51.5 40.4 60.6



#50
Toluene-d8
Concen: 55.215 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

Tgt Ion: 98 Resp: 1462096
Ion Ratio Lower Upper
98 100
100 63.1 53.0 79.4

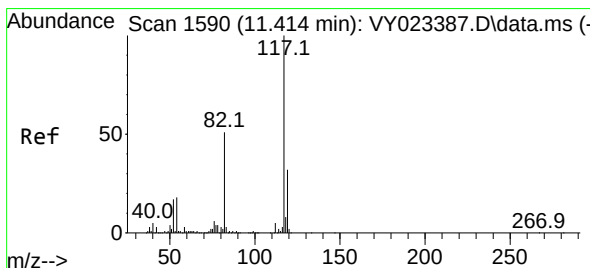
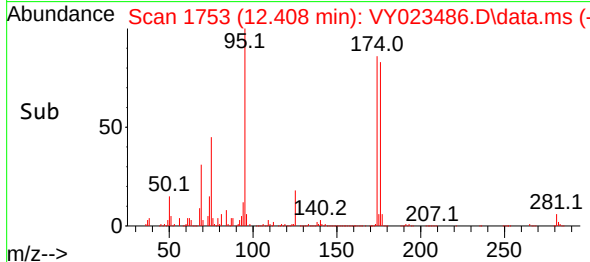
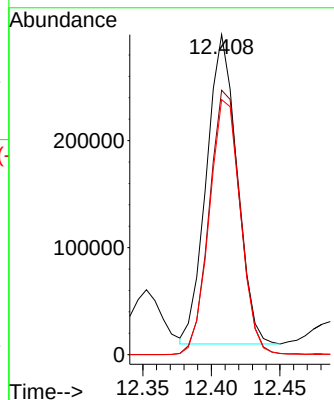
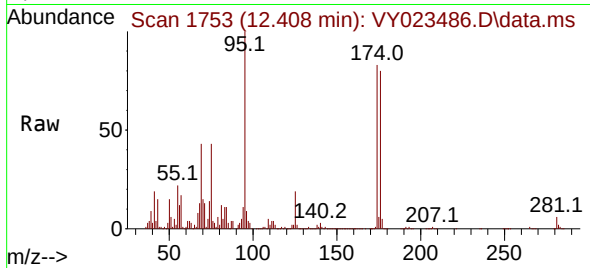




#62
4-Bromofluorobenzene
Concen: 51.179 ug/l
RT: 12.408 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

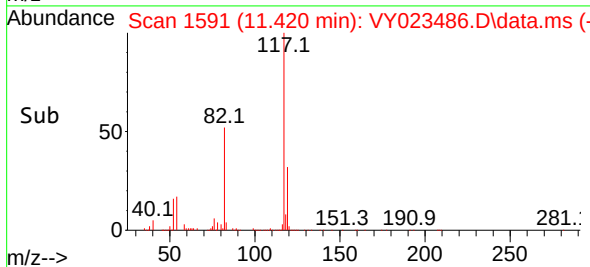
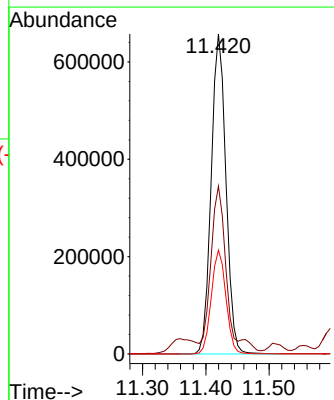
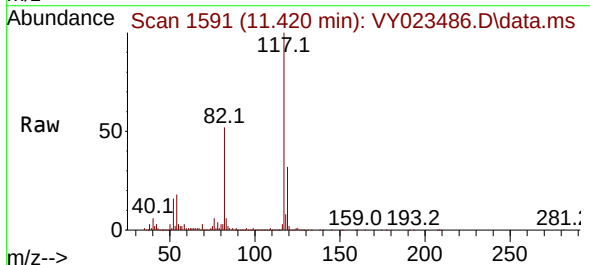
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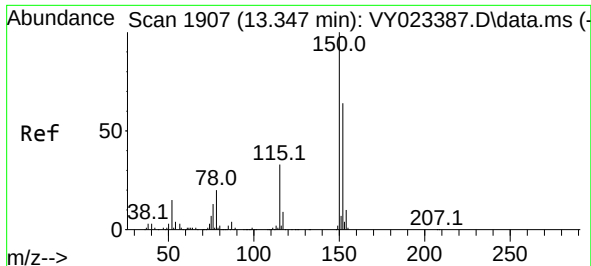
Tgt Ion: 95 Resp: 447422
Ion Ratio Lower Upper
95 100
174 87.6 0.0 192.8
176 84.4 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

Tgt Ion: 117 Resp: 1063112
Ion Ratio Lower Upper
117 100
82 49.6 41.0 61.4
119 32.4 25.6 38.4

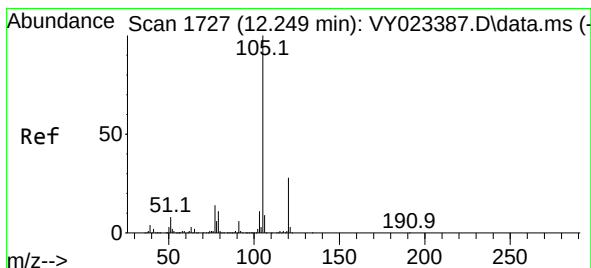
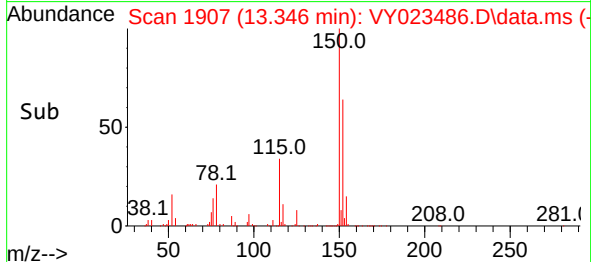
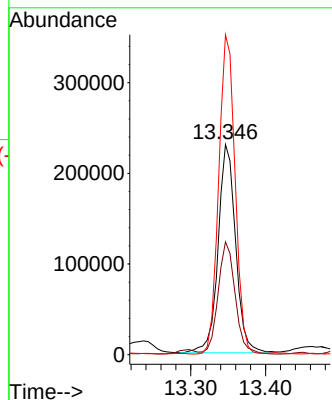
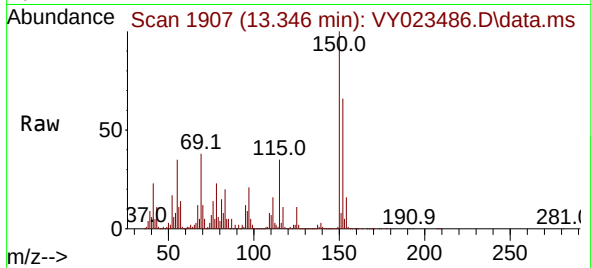




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

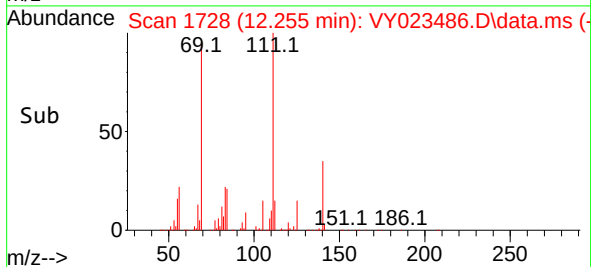
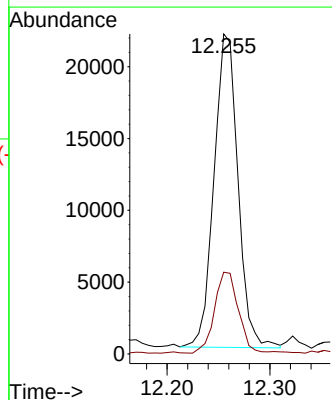
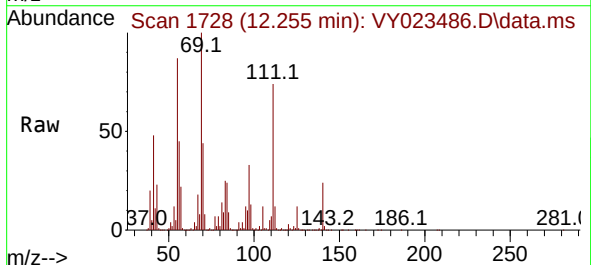
Instrument : MSVOA_Y
ClientSampleId : PR132-SO1-085011-20251015

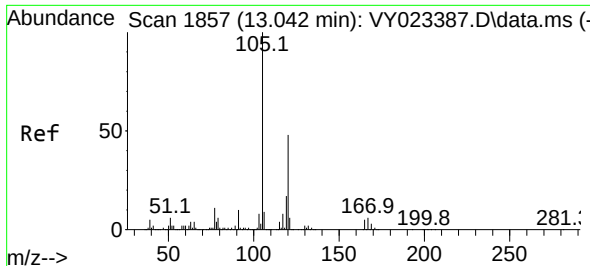
Tgt Ion:152 Resp: 376450
Ion Ratio Lower Upper
152 100
115 52.5 27.1 81.2
150 142.7 0.0 347.4



#73
Isopropylbenzene
Concen: 1.423 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.006 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

Tgt Ion:105 Resp: 35296
Ion Ratio Lower Upper
105 100
120 25.5 13.9 41.7

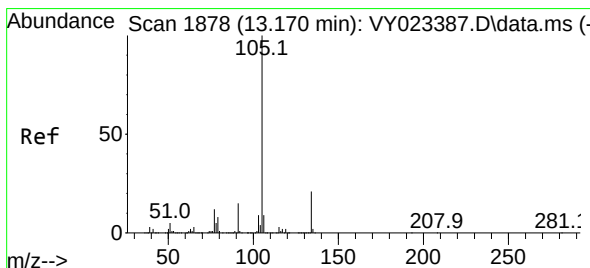
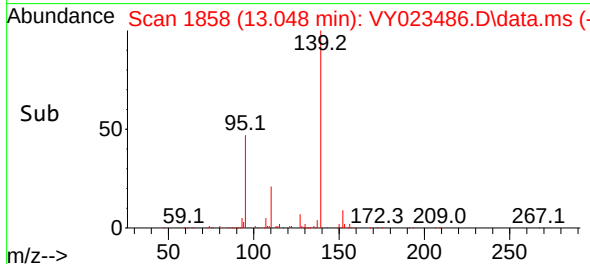
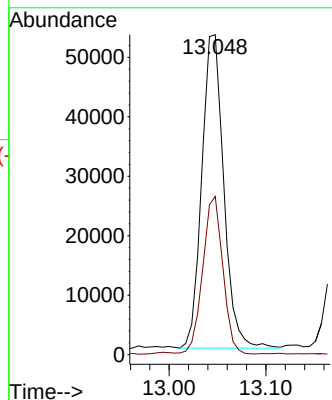
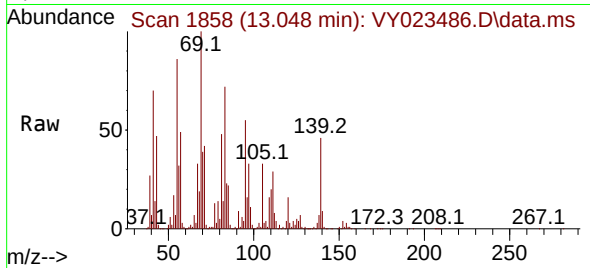




#84
1,2,4-Trimethylbenzene
Concen: 4.175 ug/l
RT: 13.048 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

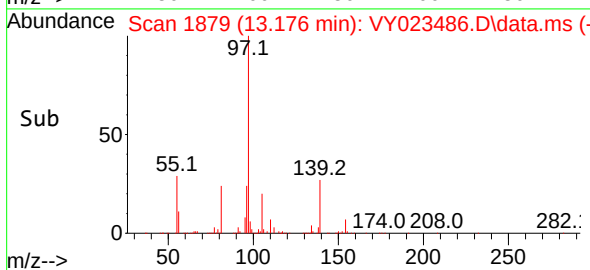
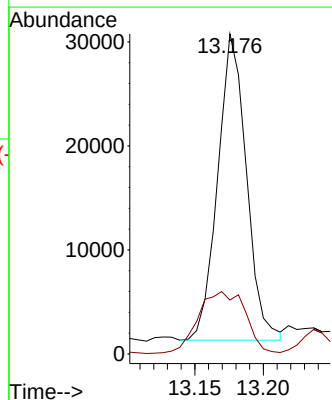
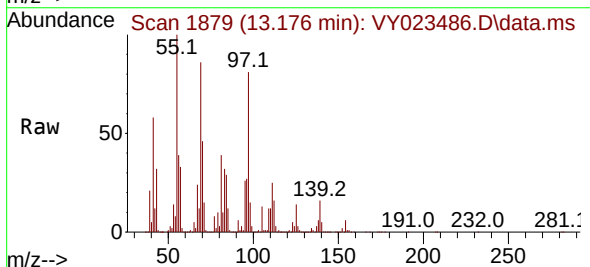
Instrument : MSVOA_Y
ClientSampleId : PR132-SO1-085011-20251015

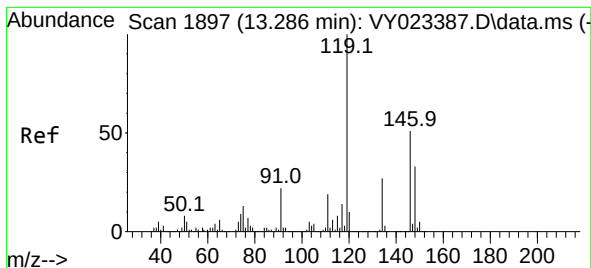
Tgt Ion:105 Resp: 83529
Ion Ratio Lower Upper
105 100
120 45.7 23.8 71.2



#85
sec-Butylbenzene
Concen: 1.614 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023486.D
Acq: 16 Oct 2025 12:57

Tgt Ion:105 Resp: 42860
Ion Ratio Lower Upper
105 100
134 33.4 10.7 32.1#





#86

p-Isopropyltoluene

Concen: 3.267 ug/l

RT: 13.291 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023486.D

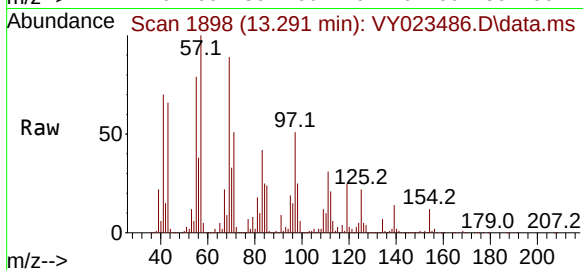
Acq: 16 Oct 2025 12:57

Instrument :

MSVOA_Y

ClientSampleId :

PR132-SO1-085011-20251015



Tgt Ion:119 Resp: 73852

Ion Ratio Lower Upper

119 100

134 28.0 13.6 40.7

91 27.8 10.9 32.9

