

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022522.D
 Acq On : 03 Jun 2025 15:01
 Operator : SY/MD
 Sample : Q2168-11
 Misc : 4.30g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 C2

Quant Time: Jun 04 04:13:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	97469	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	152123	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	83832	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	18701	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	51975	47.678	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	95.360%
35) Dibromofluoromethane	7.634	113	44730	49.263	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.520%
50) Toluene-d8	10.103	98	168129	45.826	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	91.660%
62) 4-Bromofluorobenzene	12.402	95	25573	23.394	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	46.780%

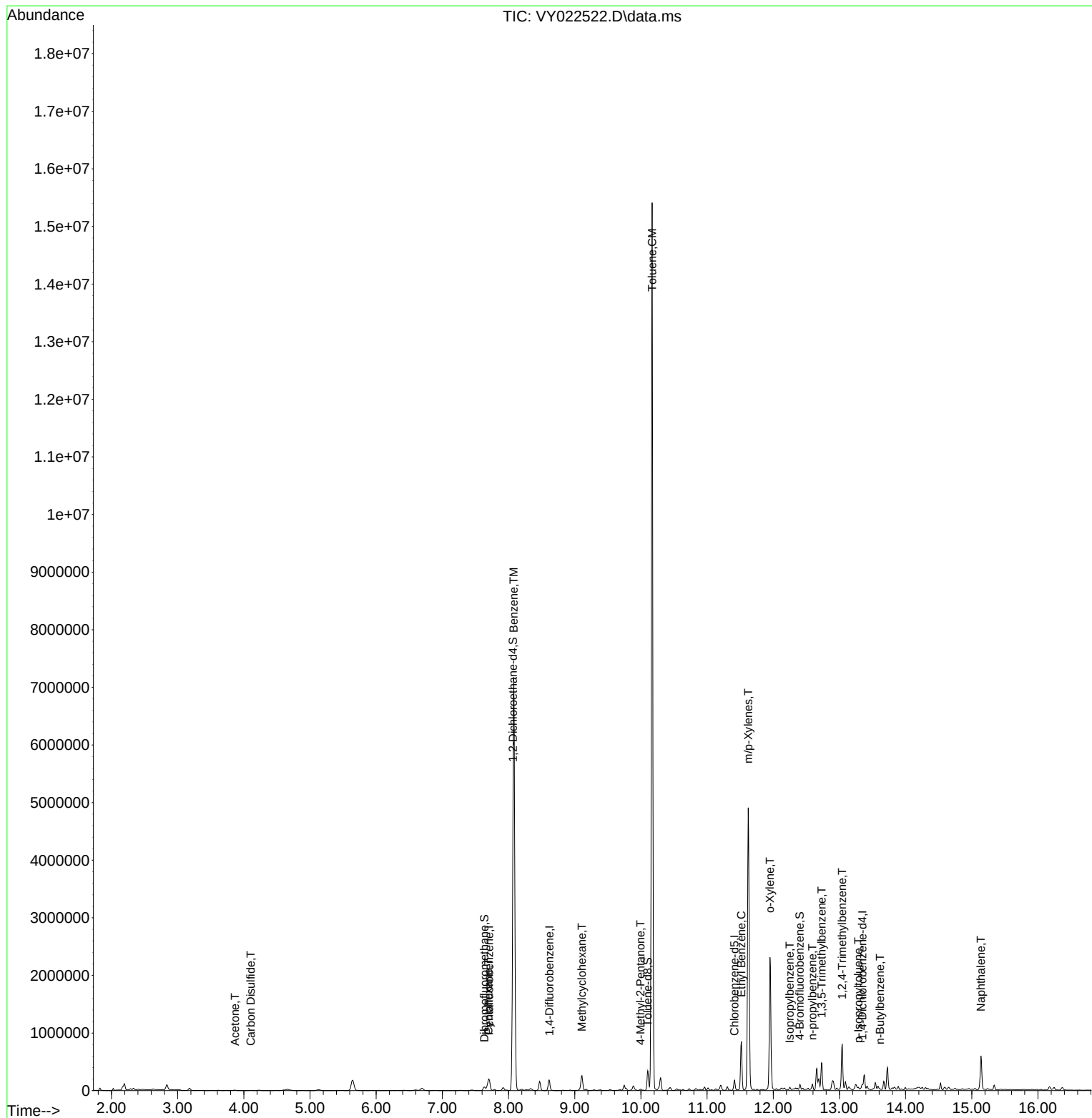
Target Compounds						Qvalue
16) Acetone	3.866	43	9268	41.863	ug/l #	88
17) Carbon Disulfide	4.104	76	3712	1.134	ug/l #	61
31) Cyclohexane	7.695	56	46522	22.209	ug/l	96
39) Methylcyclohexane	9.109	83	103348	52.186	ug/l	98
40) Benzene	8.079	78	6567538	1508.872	ug/l	99
51) 4-Methyl-2-Pentanone	9.993	43	11425	16.145	ug/l	95
52) Toluene	10.170	92	5579717	2039.879	ug/l	93
67) Ethyl Benzene	11.518	91	558968	162.453	ug/l	99
68) m/p-Xylenes	11.621	106	1340595	1027.771	ug/l	100
69) o-Xylene	11.950	106	542787	443.839	ug/l	100
73) Isopropylbenzene	12.249	105	26270	17.110	ug/l	92
78) n-propylbenzene	12.591	91	72905	38.877	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	153892	127.670	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	407740	338.208	ug/l	100
86) p-Isopropyltoluene	13.286	119	9612	7.038	ug/l	90
89) n-Butylbenzene	13.615	91	7329	5.656	ug/l #	73
95) Naphthalene	15.139	128	430711	738.370	ug/l	99

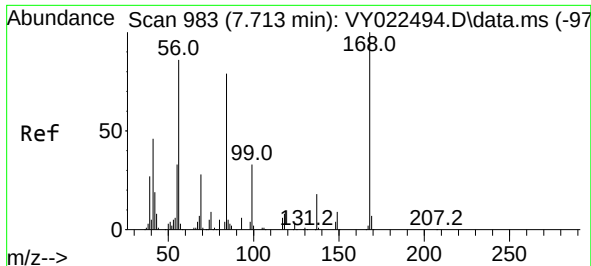
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

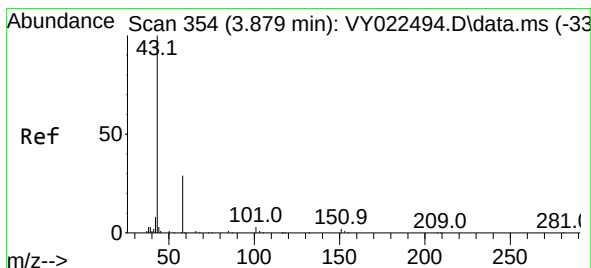
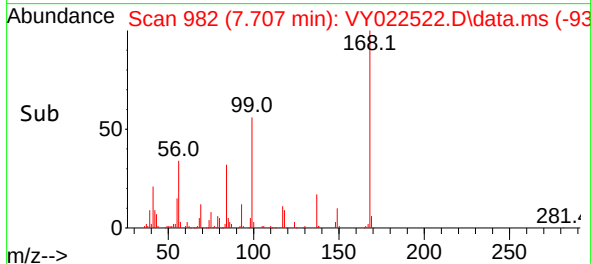
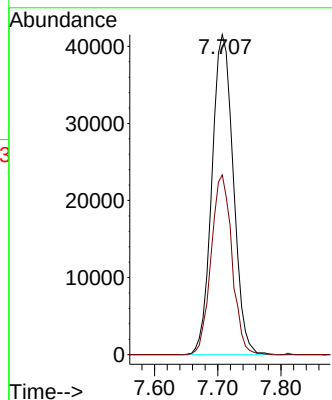
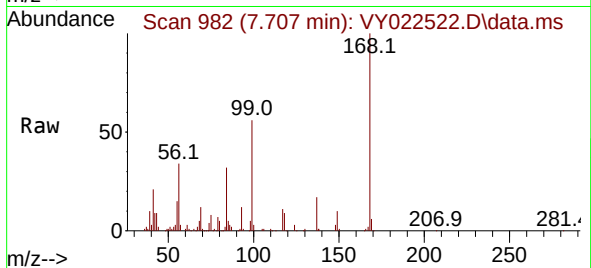




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

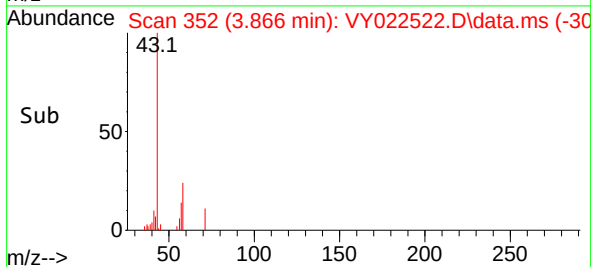
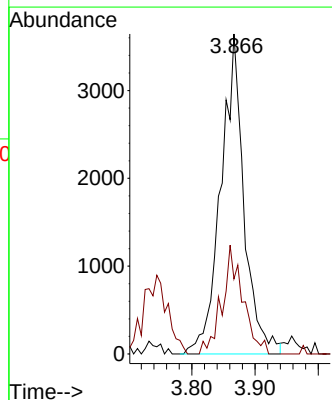
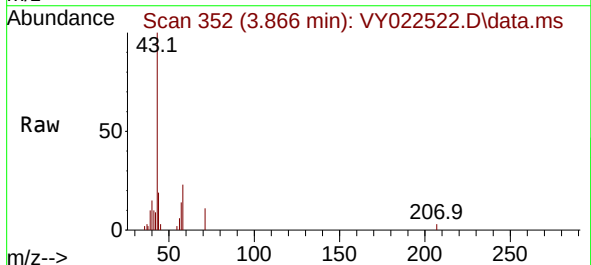
Instrument :
MSVOA_Y
ClientSampleId :
C2

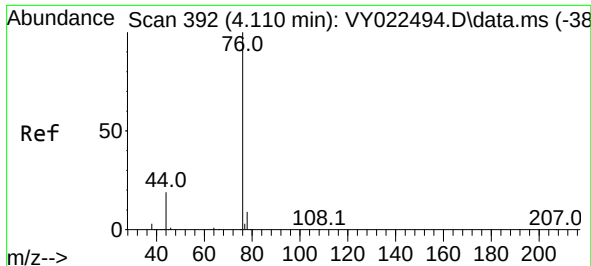
Tgt Ion:168 Resp: 97469
Ion Ratio Lower Upper
168 100
99 56.2 44.3 66.5



#16
Acetone
Concen: 41.863 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Tgt Ion: 43 Resp: 9268
Ion Ratio Lower Upper
43 100
58 23.4 24.0 36.0#

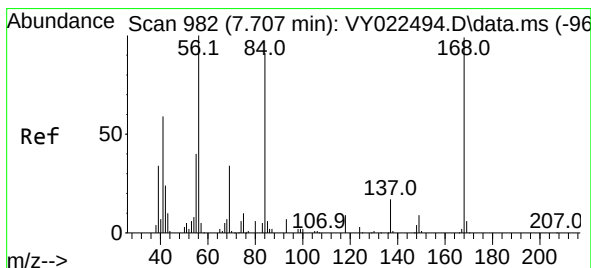
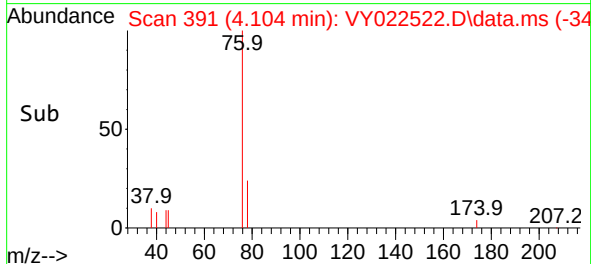
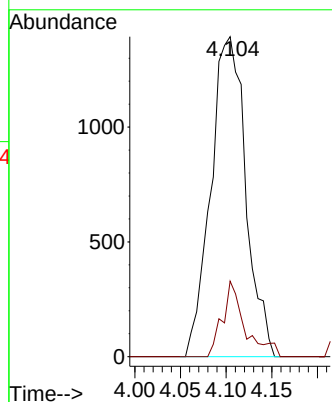
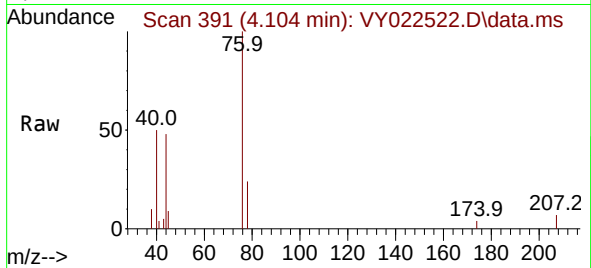




#17
Carbon Disulfide
Concen: 1.134 ug/l
RT: 4.104 min Scan# 391
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

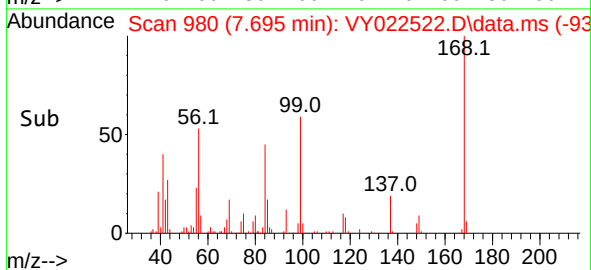
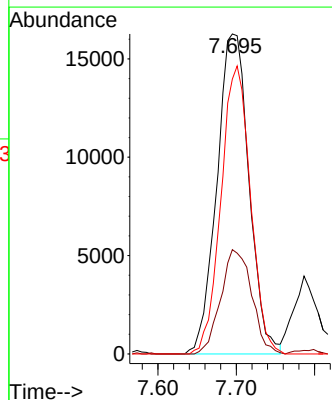
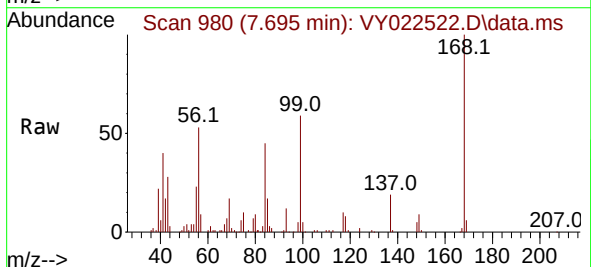
Instrument :
MSVOA_Y
ClientSampleId :
C2

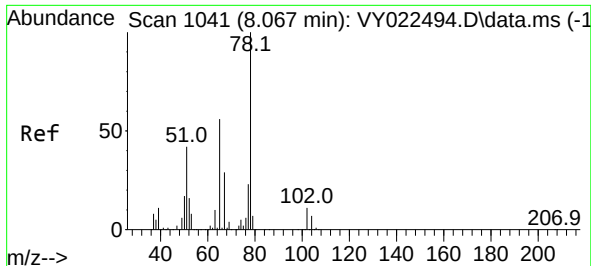
Tgt Ion: 76 Resp: 3712
Ion Ratio Lower Upper
76 100
78 23.6 7.4 11.2#



#31
Cyclohexane
Concen: 22.209 ug/l
RT: 7.695 min Scan# 980
Delta R.T. -0.012 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Tgt Ion: 56 Resp: 46522
Ion Ratio Lower Upper
56 100
69 32.6 27.0 40.6
84 85.9 72.6 109.0





#33

1,2-Dichloroethane-d4

Concen: 47.678 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VY022522.D

Acq: 03 Jun 2025 15:01

Instrument :

MSVOA_Y

ClientSampleId :

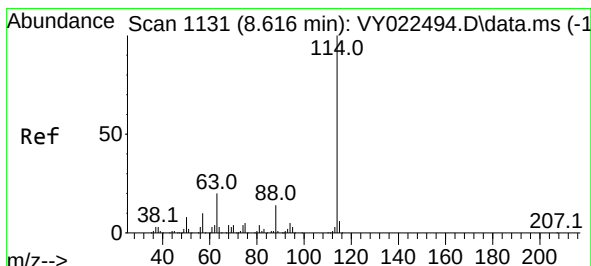
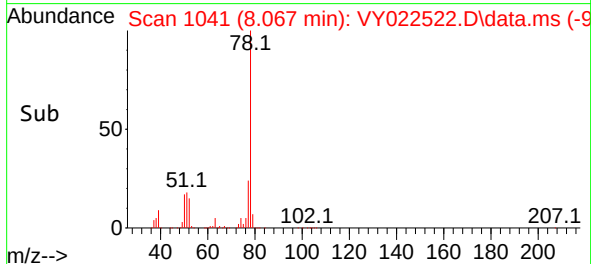
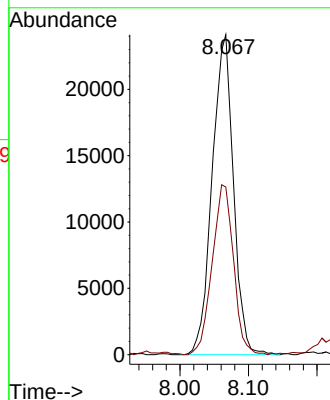
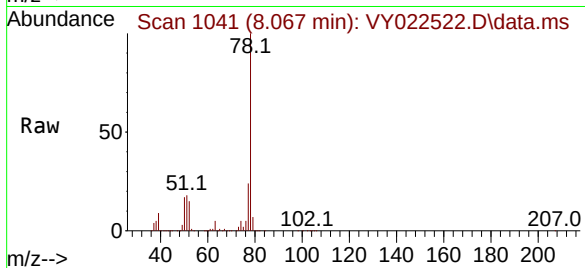
C2

Tgt Ion: 65 Resp: 51975

Ion Ratio Lower Upper

65 100

67 53.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022522.D

Acq: 03 Jun 2025 15:01

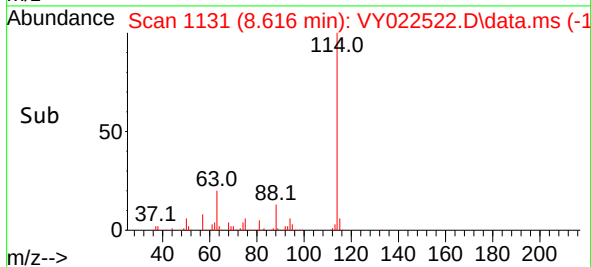
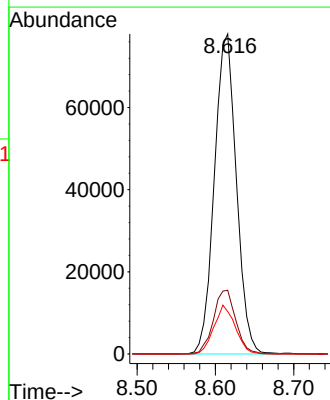
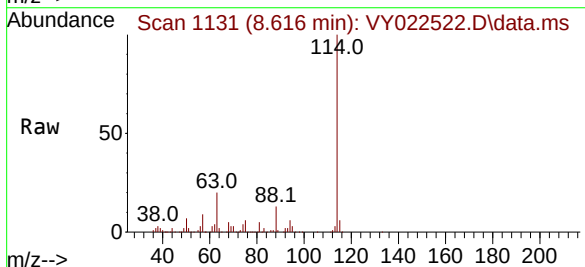
Tgt Ion: 114 Resp: 152123

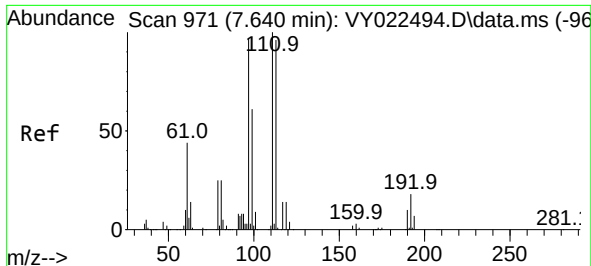
Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

88 13.3 0.0 27.8

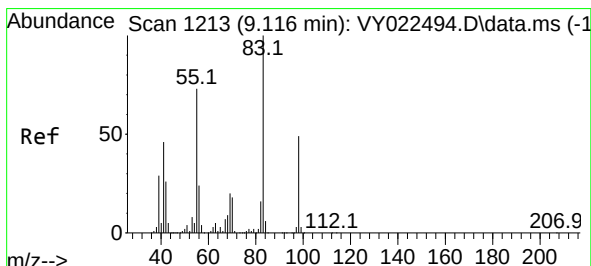
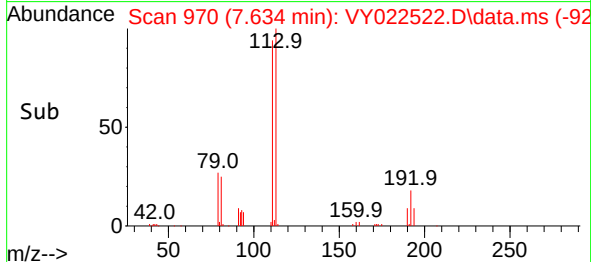
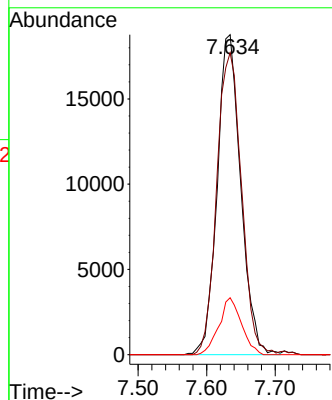
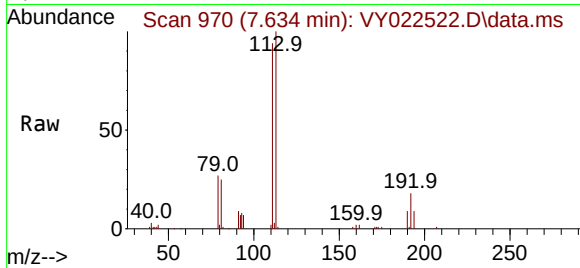




#35
Dibromofluoromethane
Concen: 49.263 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

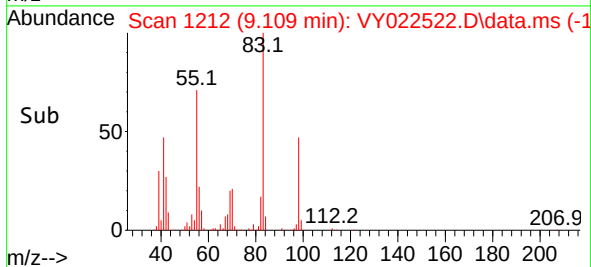
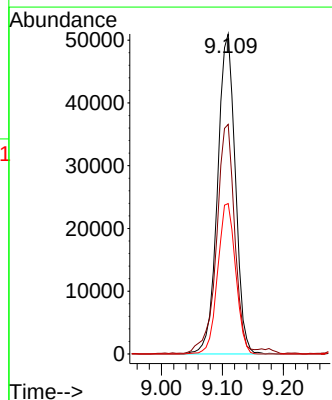
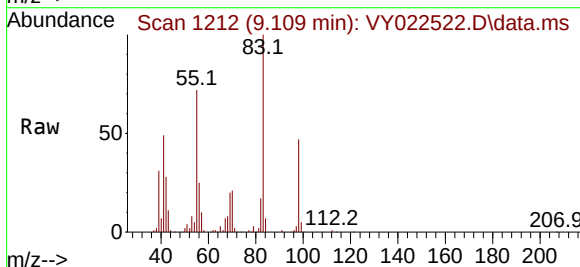
Instrument :
MSVOA_Y
ClientSampleId :
C2

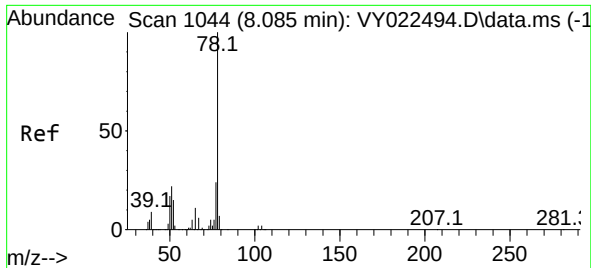
Tgt Ion:113 Resp: 44730
Ion Ratio Lower Upper
113 100
111 98.9 81.1 121.7
192 17.0 14.2 21.2



#39
Methylcyclohexane
Concen: 52.186 ug/l
RT: 9.109 min Scan# 1212
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Tgt Ion: 83 Resp: 103348
Ion Ratio Lower Upper
83 100
55 71.6 58.1 87.1
98 47.0 39.0 58.6

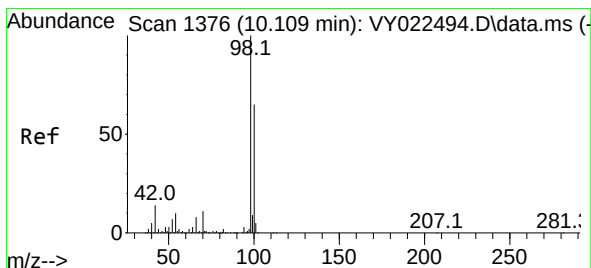
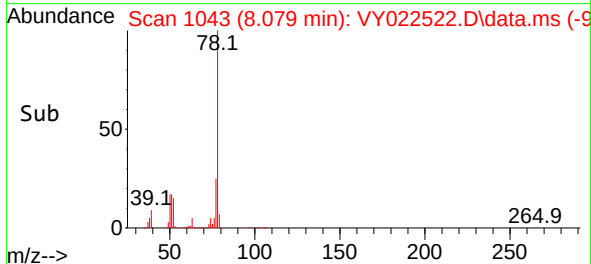
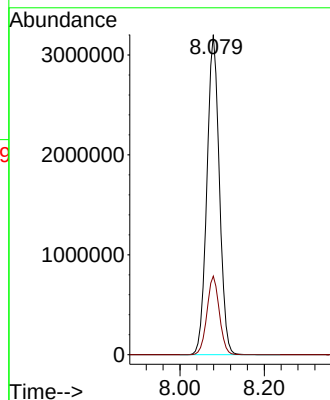
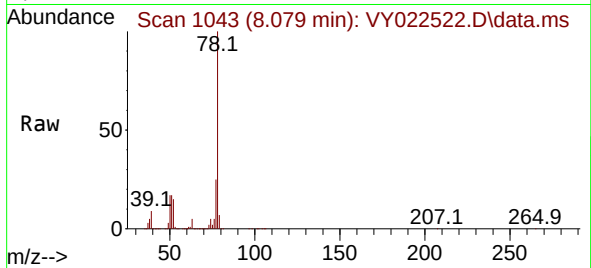




#40
Benzene
Concen: 1508.872 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

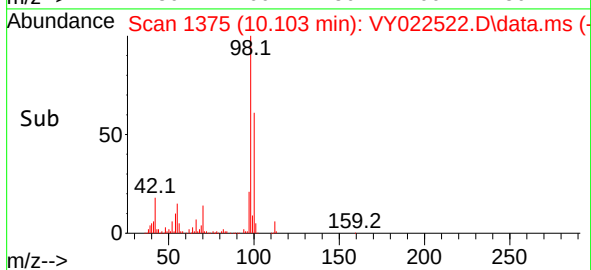
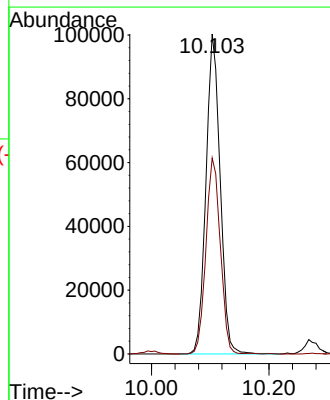
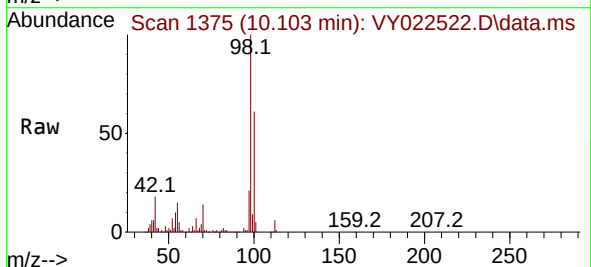
Instrument :
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ClientSampleId :
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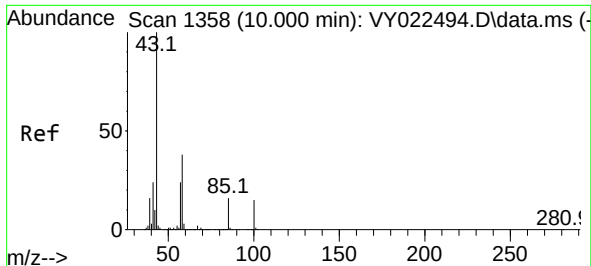
Tgt Ion: 78 Resp: 6567538
Ion Ratio Lower Upper
78 100
77 24.5 19.3 28.9



#50
Toluene-d8
Concen: 45.826 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Tgt Ion: 98 Resp: 168129
Ion Ratio Lower Upper
98 100
100 62.0 51.4 77.0

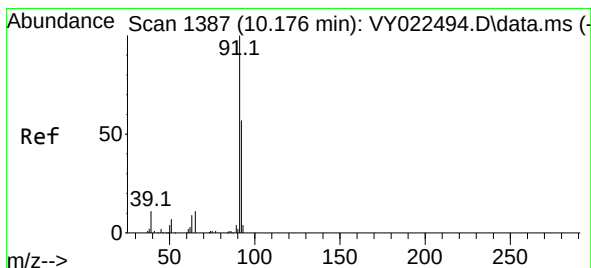
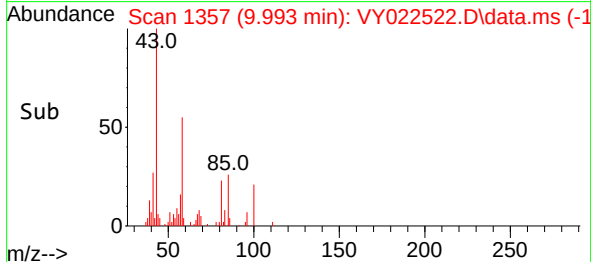
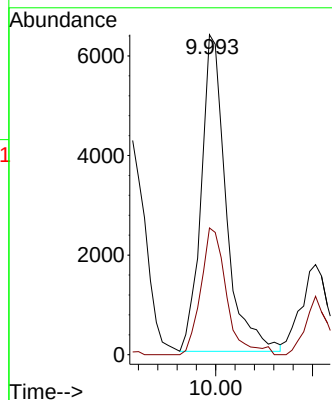
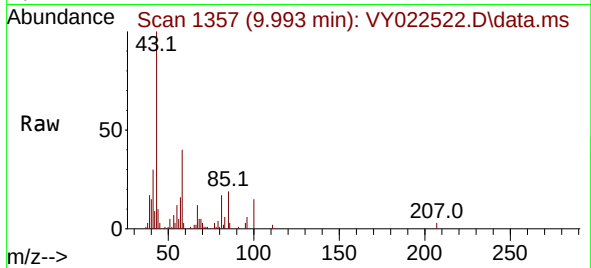




#51
4-Methyl-2-Pentanone
Concen: 16.145 ug/l
RT: 9.993 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

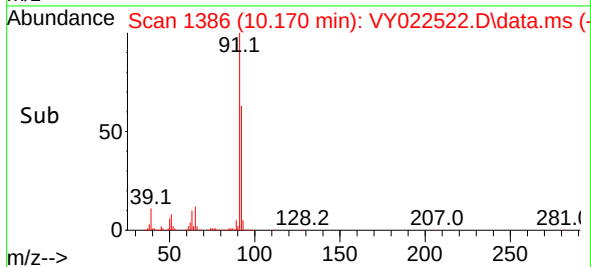
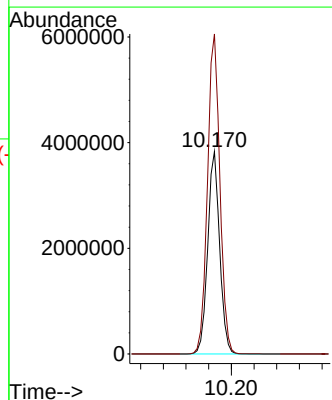
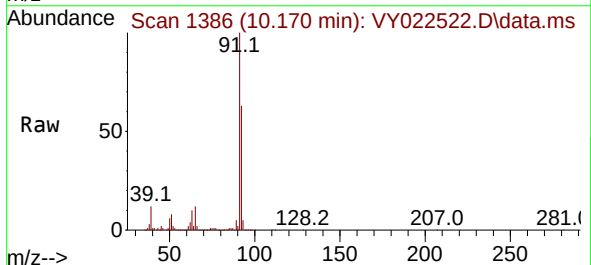
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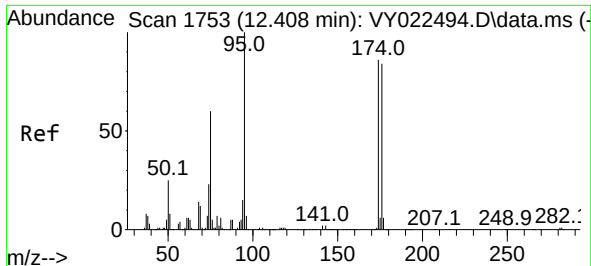
Tgt Ion: 43 Resp: 11425
Ion Ratio Lower Upper
43 100
58 41.0 30.4 45.6



#52
Toluene
Concen: 2039.879 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Tgt Ion: 92 Resp: 5579717
Ion Ratio Lower Upper
92 100
91 164.7 139.0 208.4

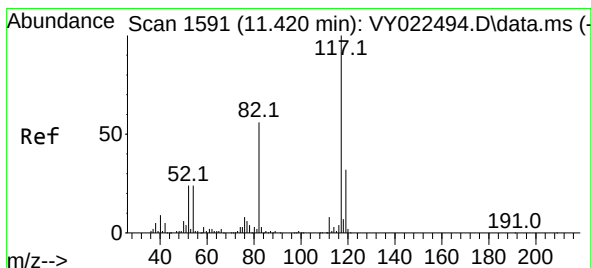
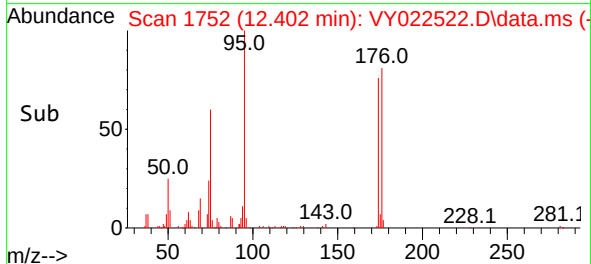
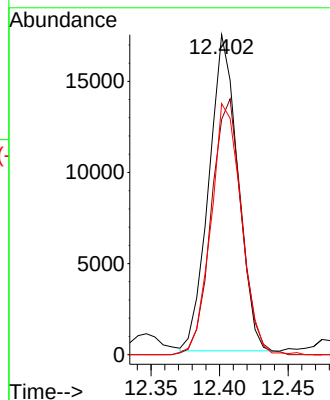
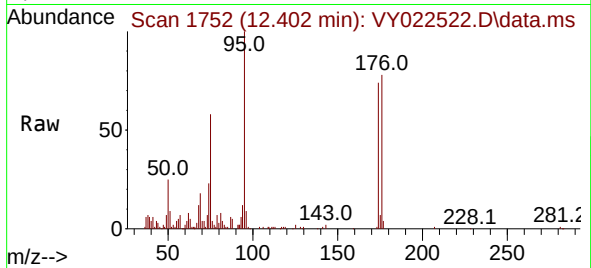




#62
4-Bromofluorobenzene
Concen: 23.394 ug/l
RT: 12.402 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

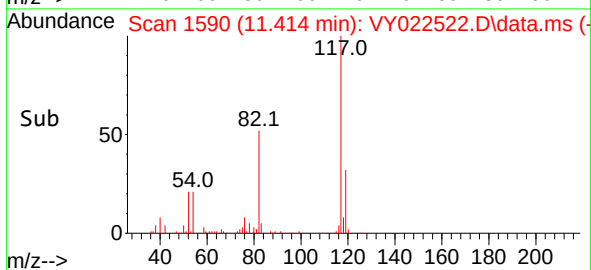
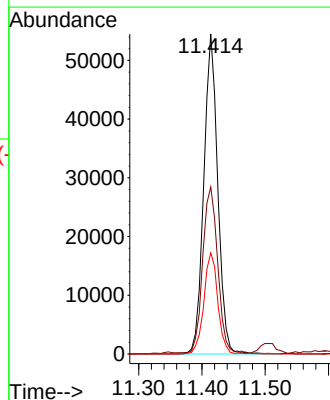
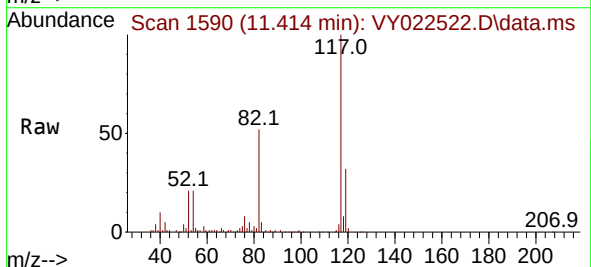
Instrument :
MSVOA_Y
ClientSampleId :
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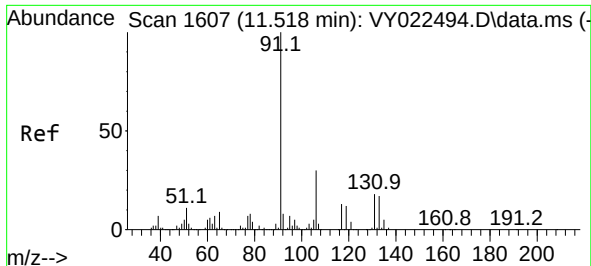
Tgt Ion: 95 Resp: 25573
Ion Ratio Lower Upper
95 100
174 85.0 0.0 170.0
176 83.4 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Tgt Ion: 117 Resp: 83832
Ion Ratio Lower Upper
117 100
82 51.8 44.6 66.8
119 31.6 25.4 38.0

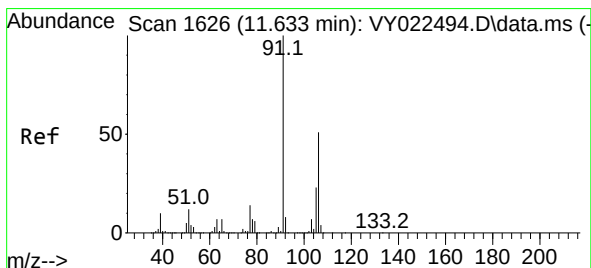
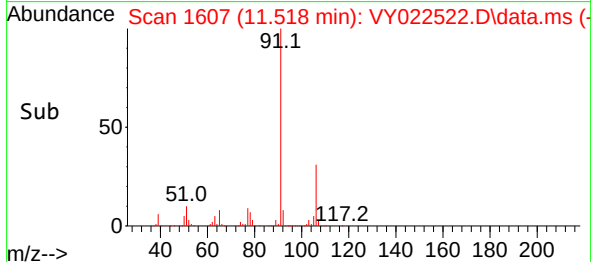
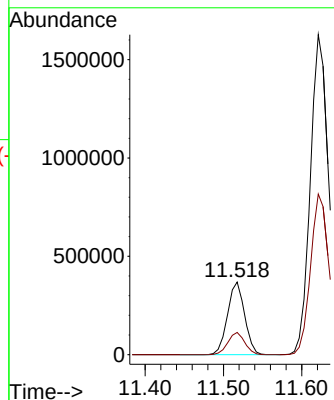
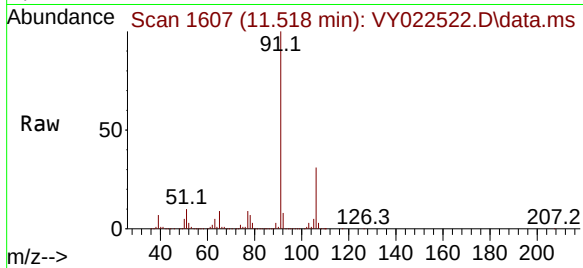




#67
Ethyl Benzene
Concen: 162.453 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

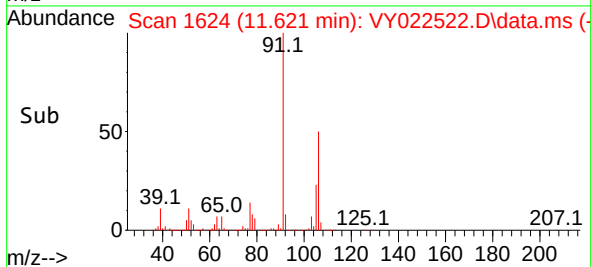
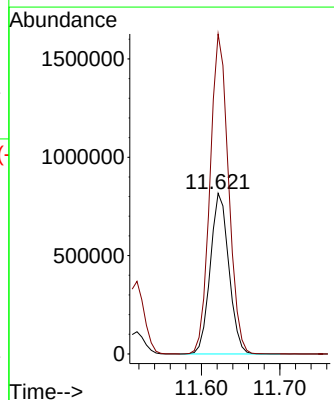
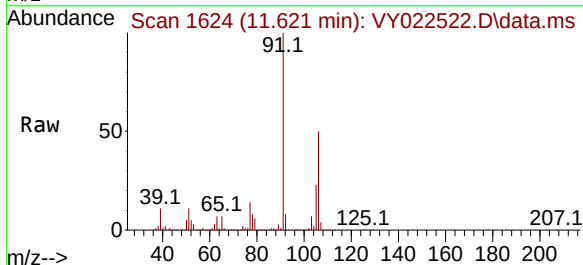
Instrument :
MSVOA_Y
ClientSampleId :
C2

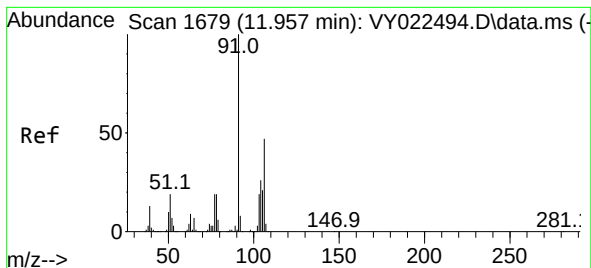
Tgt Ion: 91 Resp: 558968
Ion Ratio Lower Upper
91 100
106 30.7 24.2 36.4



#68
m/p-Xylenes
Concen: 1027.771 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Tgt Ion: 106 Resp: 1340595
Ion Ratio Lower Upper
106 100
91 198.7 159.4 239.0

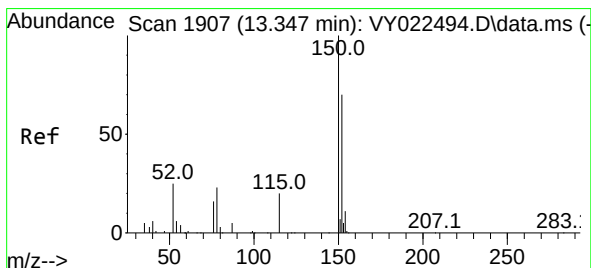
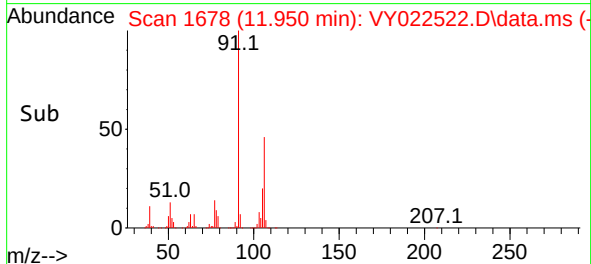
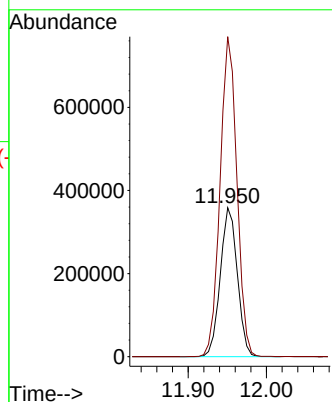
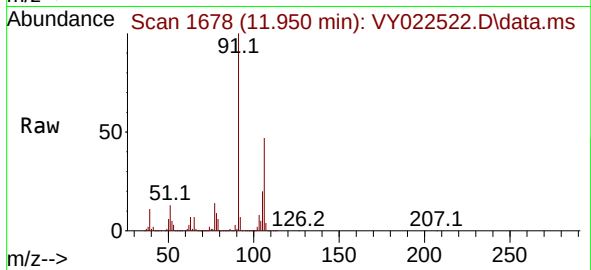




#69
o-Xylene
Concen: 443.839 ug/l
RT: 11.950 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

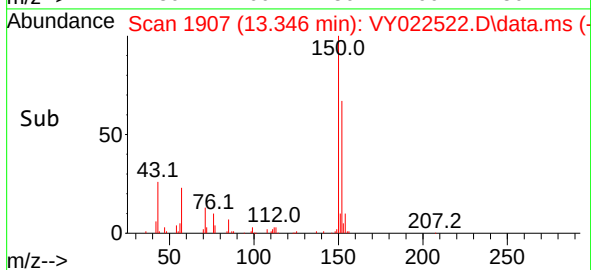
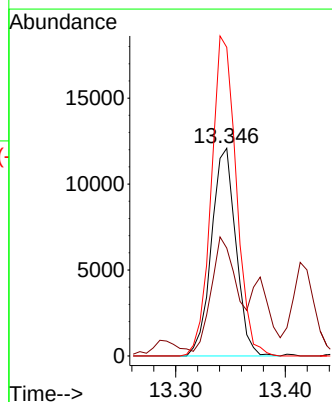
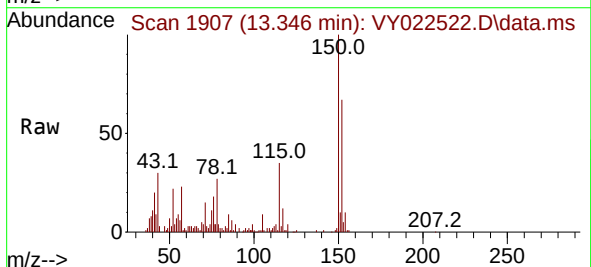
Instrument :
MSVOA_Y
ClientSampleId :
C2

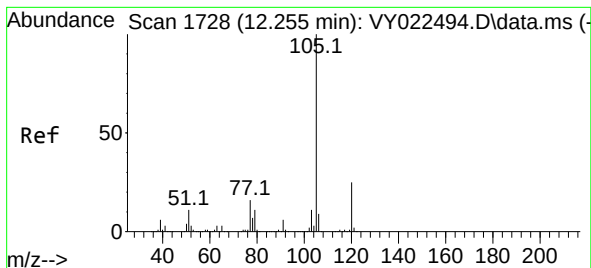
Tgt Ion:106 Resp: 542787
Ion Ratio Lower Upper
106 100
91 211.9 105.8 317.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Tgt Ion:152 Resp: 18701
Ion Ratio Lower Upper
152 100
115 57.7 28.9 86.7
150 157.5 0.0 349.6





#73

Isopropylbenzene

Concen: 17.110 ug/l

RT: 12.249 min Scan# 1727

Delta R.T. -0.006 min

Lab File: VY022522.D

Acq: 03 Jun 2025 15:01

Instrument :

MSVOA_Y

ClientSampleId :

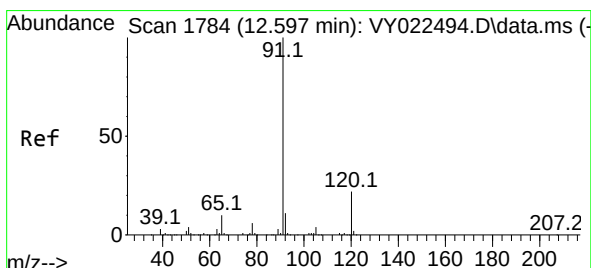
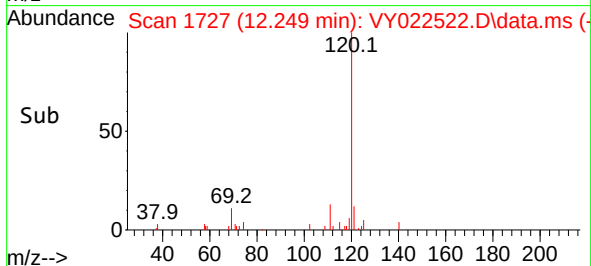
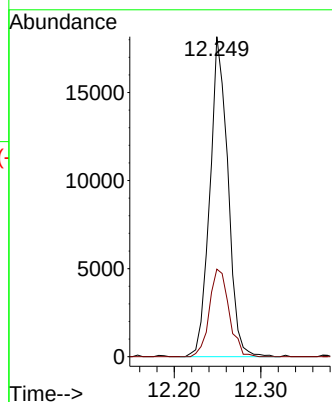
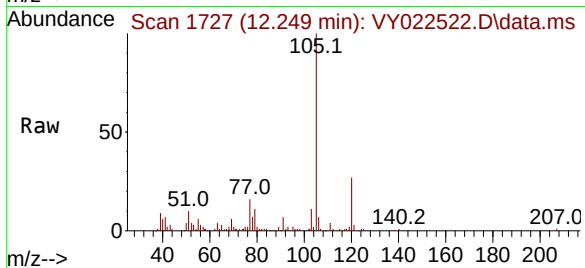
C2

Tgt Ion:105 Resp: 26270

Ion Ratio Lower Upper

105 100

120 29.7 13.0 38.9



#78

n-propylbenzene

Concen: 38.877 ug/l

RT: 12.591 min Scan# 1783

Delta R.T. -0.006 min

Lab File: VY022522.D

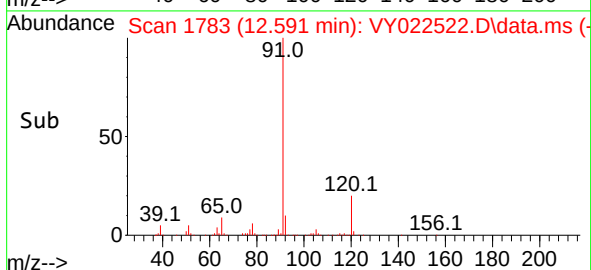
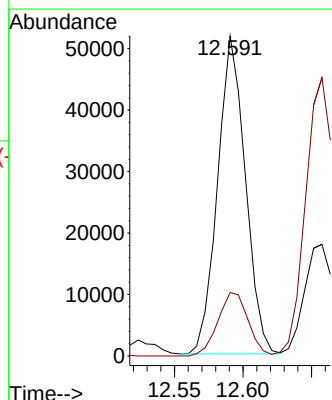
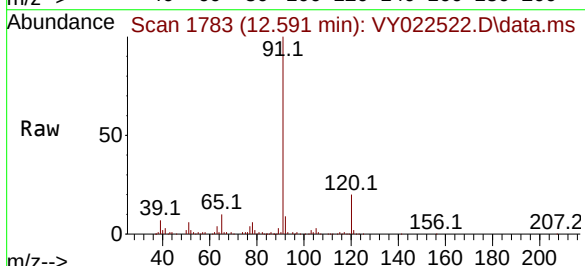
Acq: 03 Jun 2025 15:01

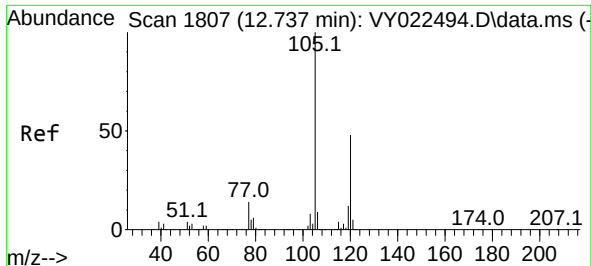
Tgt Ion: 91 Resp: 72905

Ion Ratio Lower Upper

91 100

120 21.7 10.8 32.4

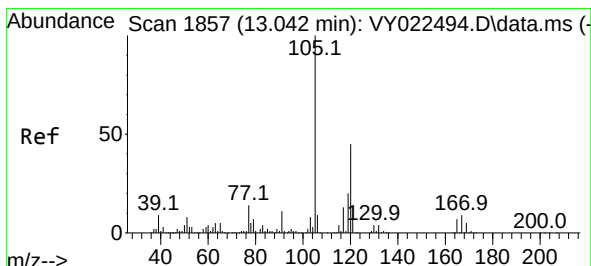
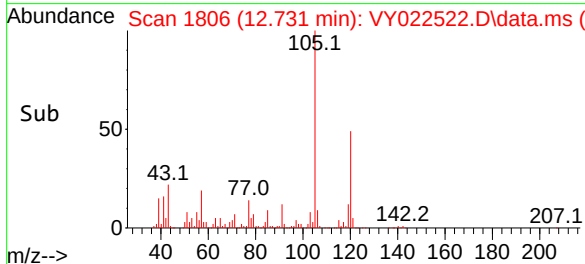
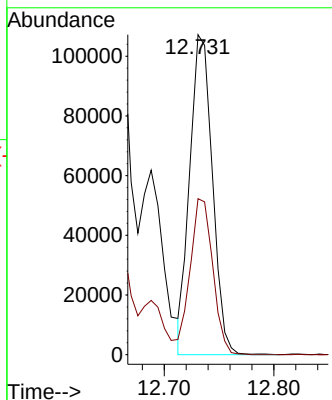
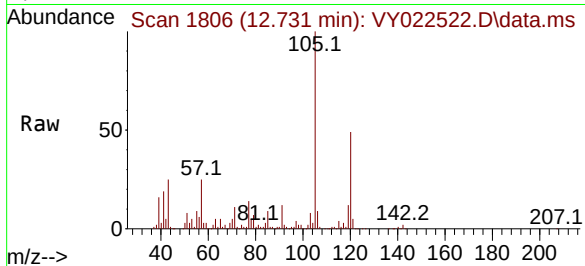




#80
1,3,5-Trimethylbenzene
Concen: 127.670 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

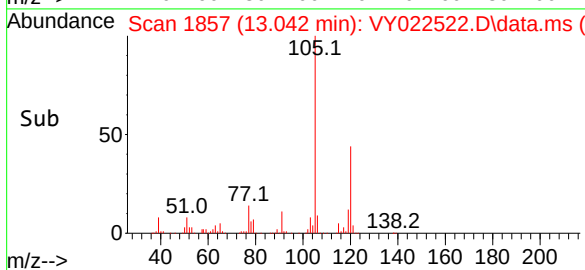
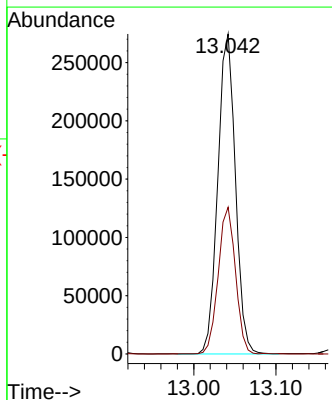
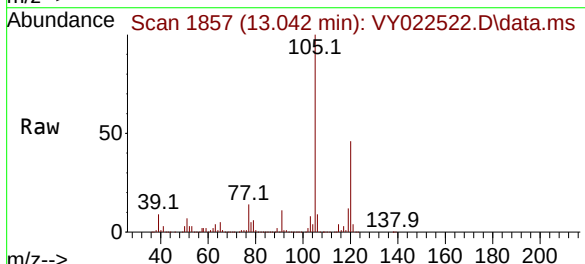
Instrument :
MSVOA_Y
ClientSampleId :
C2

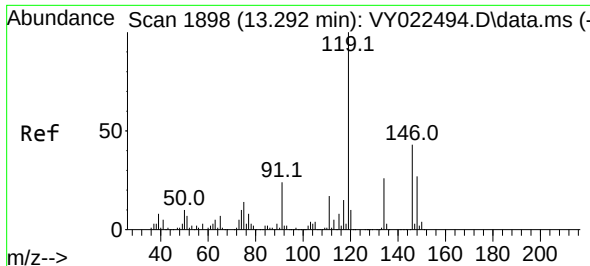
Tgt Ion:105 Resp: 153892
Ion Ratio Lower Upper
105 100
120 49.6 24.1 72.4



#84
1,2,4-Trimethylbenzene
Concen: 338.208 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Tgt Ion:105 Resp: 407740
Ion Ratio Lower Upper
105 100
120 45.3 22.7 68.1

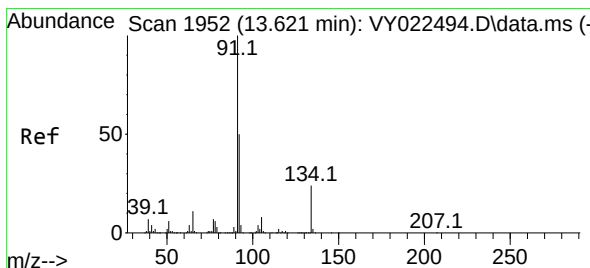
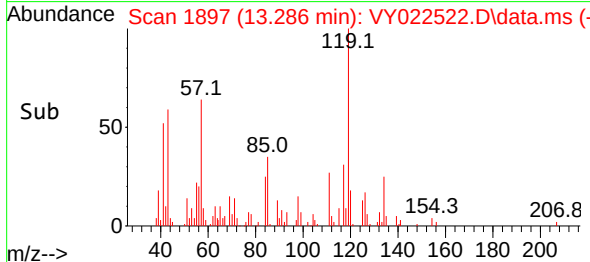
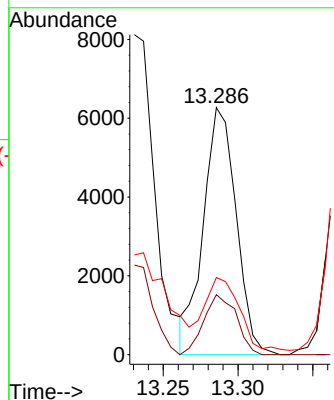
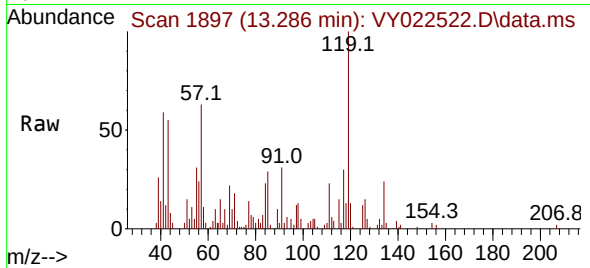




#86
p-Isopropyltoluene
Concen: 7.038 ug/l
RT: 13.286 min Scan# 119
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

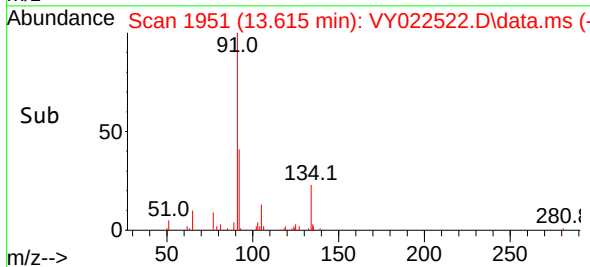
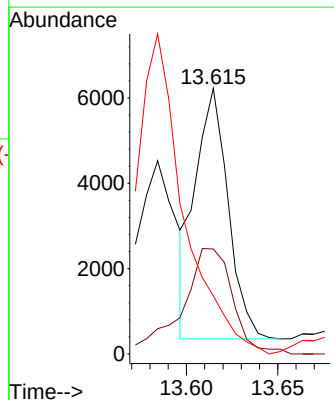
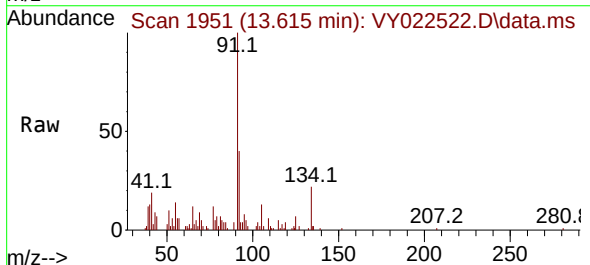
Instrument :
MSVOA_Y
ClientSampleId :
C2

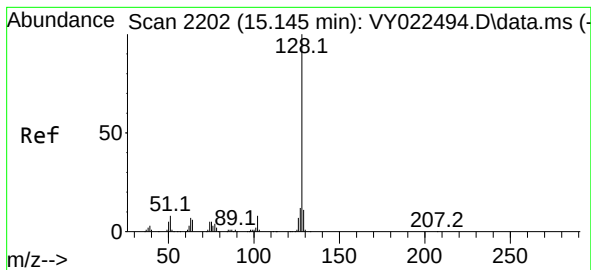
Tgt Ion:	119	Resp:	9612
Ion	Ratio	Lower	Upper
119	100		
134	24.0	13.1	39.1
91	31.2	11.6	34.8



#89
n-Butylbenzene
Concen: 5.656 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

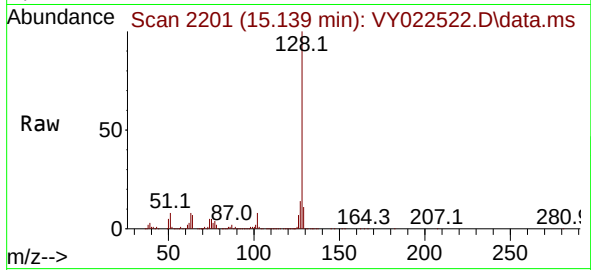
Tgt Ion:	91	Resp:	7329
Ion	Ratio	Lower	Upper
91	100		
92	64.0	25.9	77.8
134	0.0	12.0	36.1#





#95
Naphthalene
Concen: 738.370 ug/l
RT: 15.139 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022522.D
Acq: 03 Jun 2025 15:01

Instrument :
MSVOA_Y
ClientSampleId :
C2



Tgt Ion:128 Resp: 430711
Ion Ratio Lower Upper
128 100
127 13.3 10.4 15.6
129 10.8 8.9 13.3

