

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102623\
 Data File : VY016092.D
 Acq On : 26 Oct 2023 21:03
 Operator : SY/MD
 Sample : 05040-01RE
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 27 04:22:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y102623S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 27 04:12:29 2023
 Response via : Initial Calibration

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

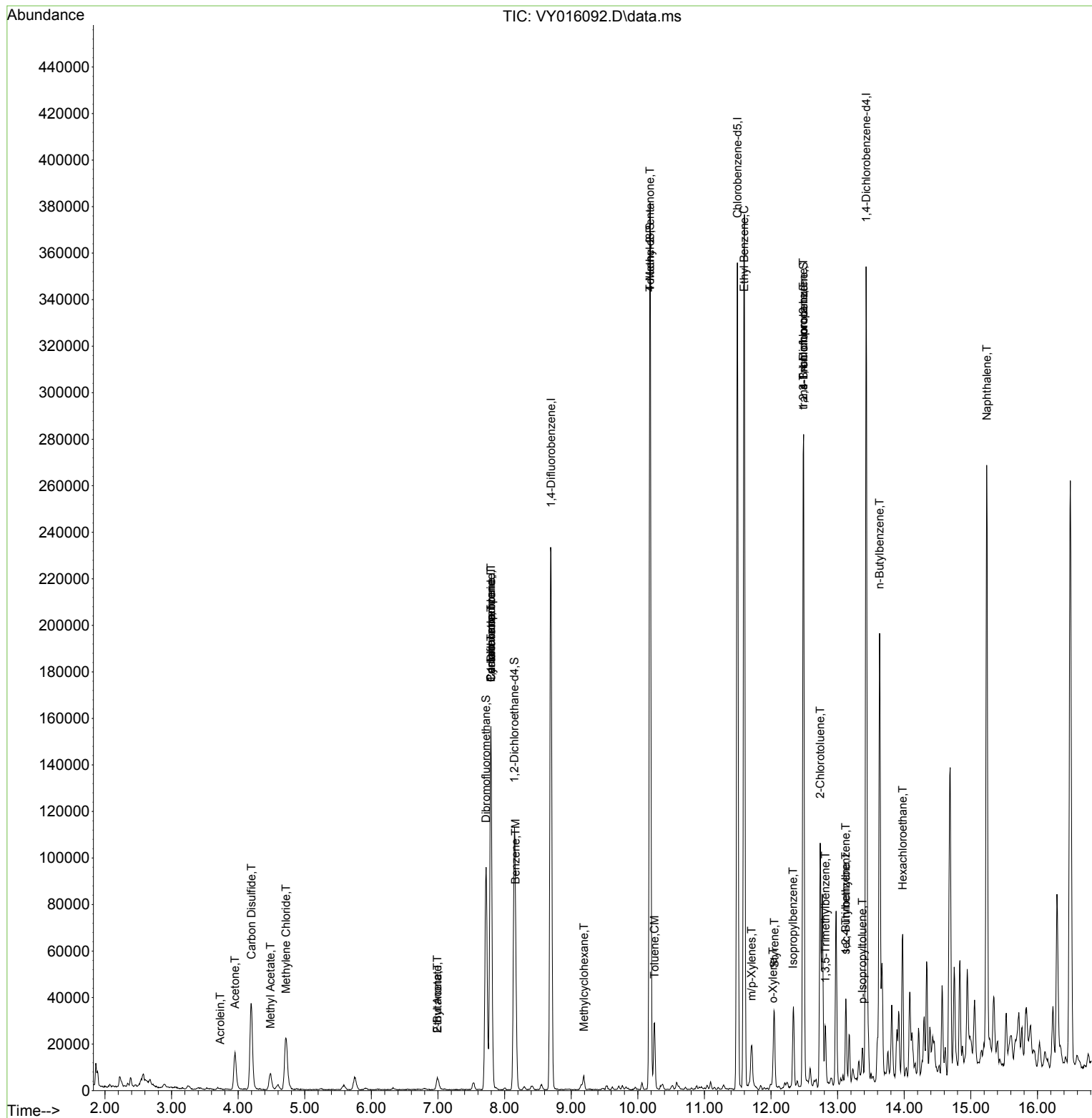
Internal Standards						
1) Pentafluorobenzene	7.795	168	121510	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	212871	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	195427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	89869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	73611	60.924	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 121.840%	
35) Dibromofluoromethane	7.722	113	70064	52.137	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.280%	
50) Toluene-d8	10.185	98	249241	50.070	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.140%	
62) 4-Bromofluorobenzene	12.489	95	84918	49.732	ug/l	0.01
Spiked Amount	50.000	Range	30 - 143	Recovery	= 99.460%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.960	59	245	Below Cal	#	89
13) Acrolein	3.729	56	242	1.608	ug/l #	14
16) Acetone	3.954	43	27167	82.955	ug/l #	83
17) Carbon Disulfide	4.198	76	79615	27.720	ug/l	100
18) Methyl Acetate	4.485	43	13681	11.816	ug/l #	89
20) Methylene Chloride	4.716	84	17329	8.782	ug/l	94
25) 2-Butanone	6.990	43	8092	18.308	ug/l #	88
31) Cyclohexane	7.795	56	2959	1.557	ug/l #	1
36) 1,1-Dichloropropene	7.795	75	9351	4.992	ug/l #	50
37) Ethyl Acetate	6.990	43	8092	8.428	ug/l #	71
38) Carbon Tetrachloride	7.795	117	12098	6.107	ug/l #	18
39) Methylcyclohexane	9.191	83	2358	1.033	ug/l	89
40) Benzene	8.167	78	39417	7.432	ug/l	98
51) 4-Methyl-2-Pentanone	10.185	43	1447	1.528	ug/l #	1
52) Toluene	10.252	92	12121	3.559	ug/l	96
67) Ethyl Benzene	11.599	91	259338	38.018	ug/l	99
68) m/p-Xylenes	11.709	106	6053	2.293	ug/l	99
69) o-Xylene	12.032	106	2821	1.116	ug/l	99
70) Styrene	12.050	104	14704	3.490	ug/l	90
73) Isopropylbenzene	12.331	105	15360	2.429	ug/l	97
76) 1,2,3-Trichloropropane	12.483	75	43975	47.928	ug/l #	100
79) 2-Chlorotoluene	12.739	91	8078	1.883	ug/l #	46
80) 1,3,5-Trimethylbenzene	12.818	105	9679	1.843	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.483	75	43975	104.152	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.123	105	20888	4.028	ug/l	96
85) sec-Butylbenzene	13.123	105	20888	3.005	ug/l #	56
86) p-Isopropyltoluene	13.373	119	7424	1.280	ug/l	98
89) n-Butylbenzene	13.629	91	17057	3.152	ug/l #	46
90) Hexachloroethane	13.977	117	3401	3.011	ug/l #	8
95) Naphthalene	15.239	128	213298	66.991	ug/l	99

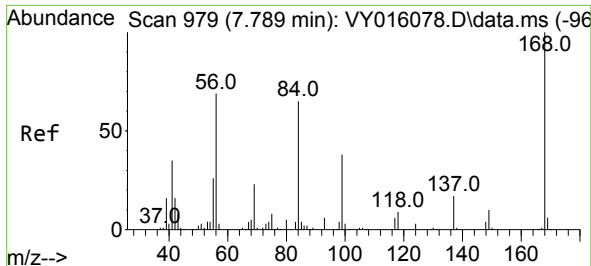
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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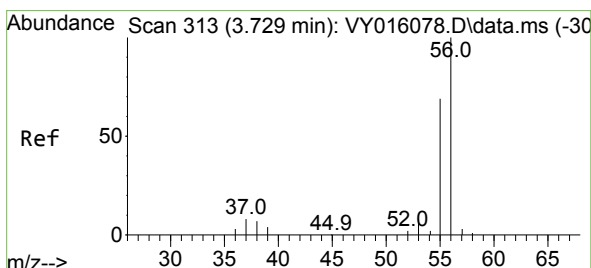
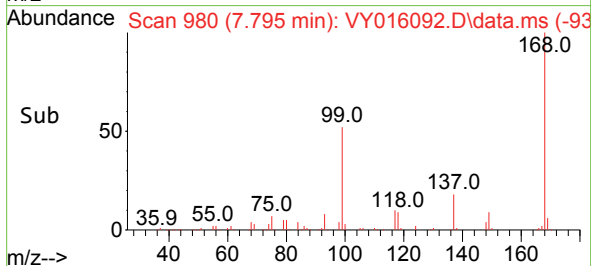
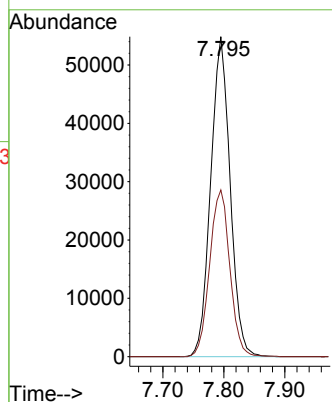
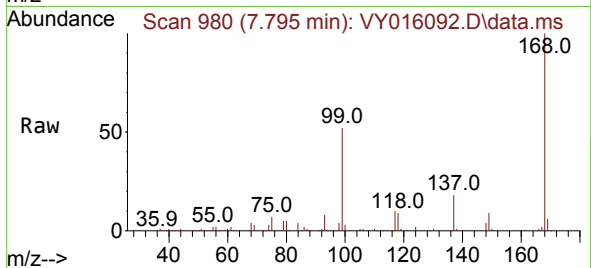




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

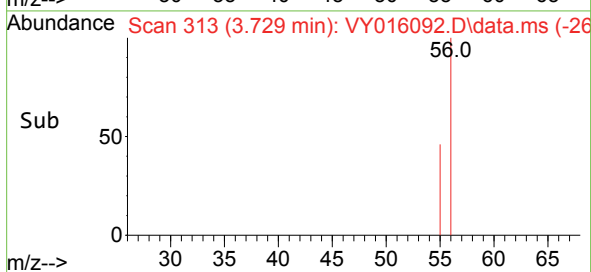
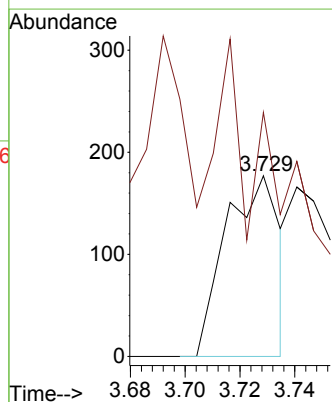
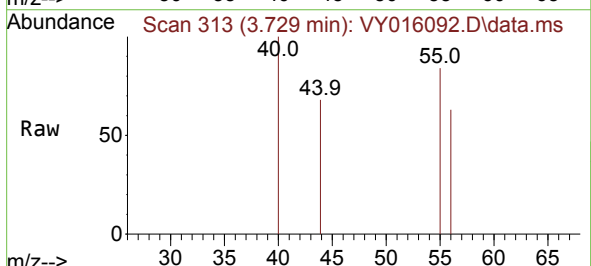
Instrument :
MSVOA_Y
ClientSampleId :

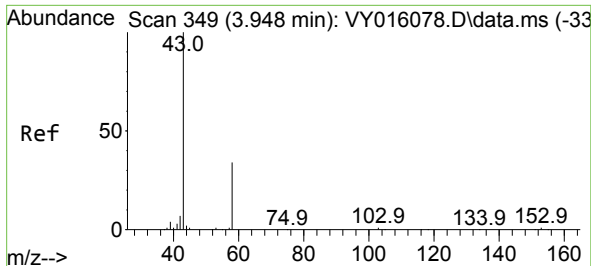
Tgt Ion:168 Resp: 121510
Ion Ratio Lower Upper
168 100
99 52.1 43.4 65.0



#13
Acrolein
Concen: 1.608 ug/l
RT: 3.729 min Scan# 313
Delta R.T. -0.000 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion: 56 Resp: 242
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 82.955 ug/l

RT: 3.954 min Scan# 3

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

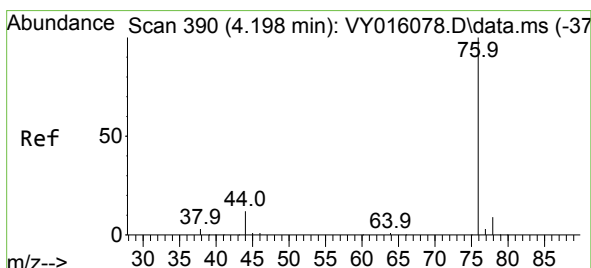
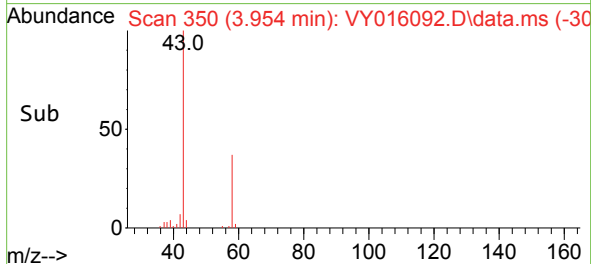
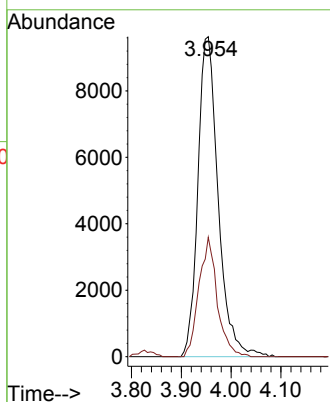
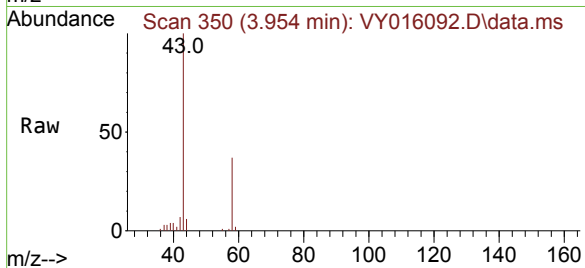
ClientSampleId :

Tgt Ion: 43 Resp: 27167

Ion Ratio Lower Upper

43 100

58 37.3 22.7 34.1#



#17

Carbon Disulfide

Concen: 27.720 ug/l

RT: 4.198 min Scan# 390

Delta R.T. -0.000 min

Lab File: VY016092.D

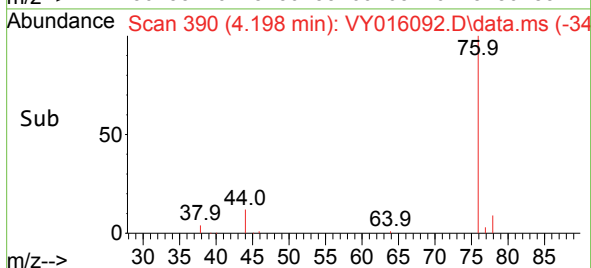
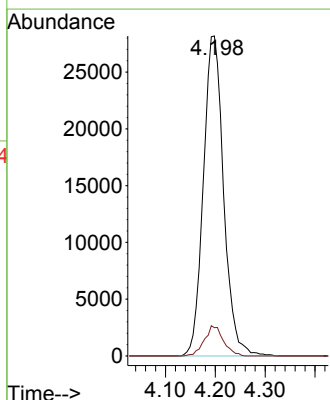
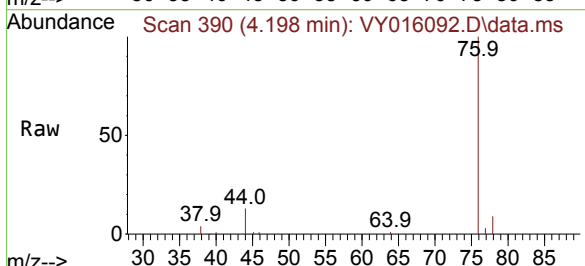
Acq: 26 Oct 2023 21:03

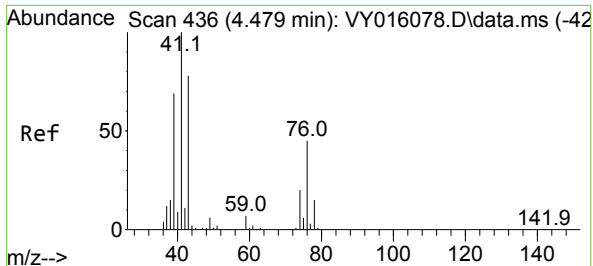
Tgt Ion: 76 Resp: 79615

Ion Ratio Lower Upper

76 100

78 8.8 7.0 10.4





#18

Methyl Acetate

Concen: 11.816 ug/l

RT: 4.485 min Scan# 436

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

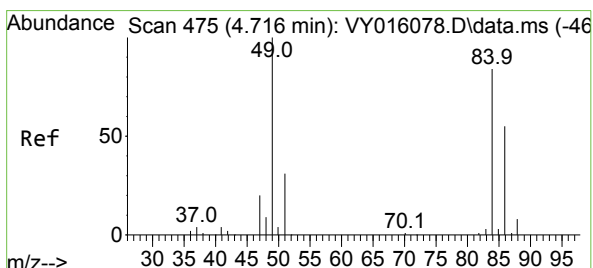
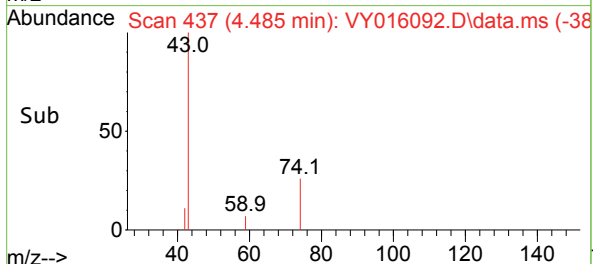
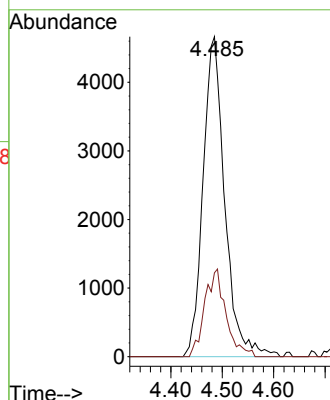
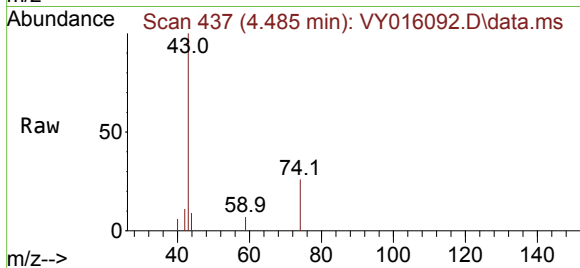
ClientSampleId :

Tgt Ion: 43 Resp: 13681

Ion Ratio Lower Upper

43 100

74 26.8 17.4 26.0#



#20

Methylene Chloride

Concen: 8.782 ug/l

RT: 4.716 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Tgt Ion: 84 Resp: 17329

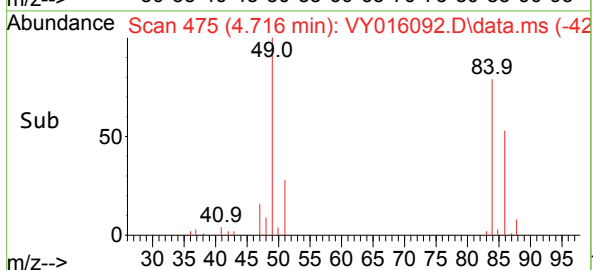
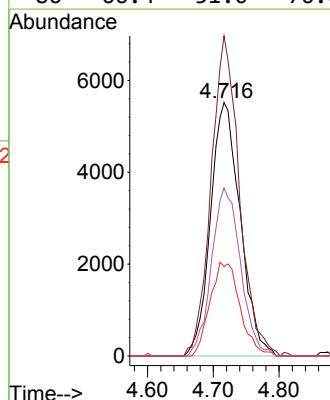
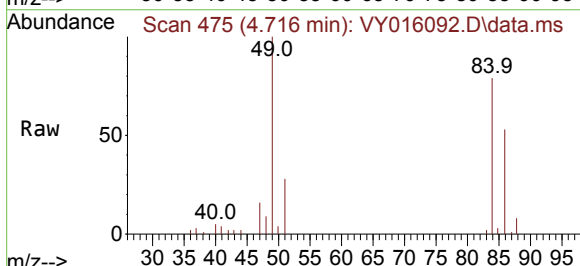
Ion Ratio Lower Upper

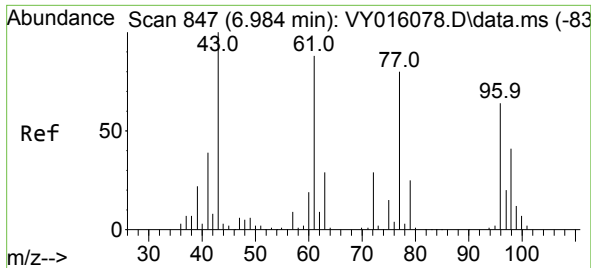
84 100

49 126.3 106.9 160.3

51 35.4 33.2 49.8

86 66.4 51.0 76.6





#25

2-Butanone

Concen: 18.308 ug/l

RT: 6.990 min Scan# 84

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

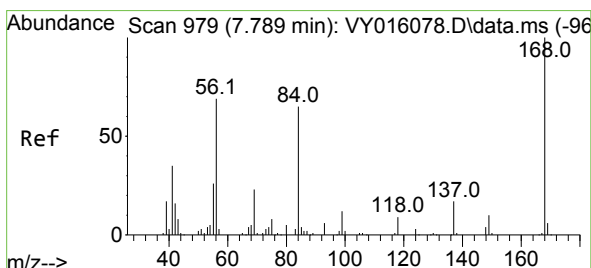
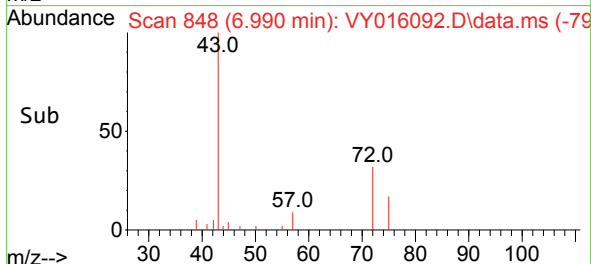
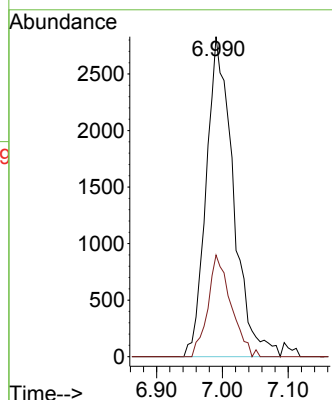
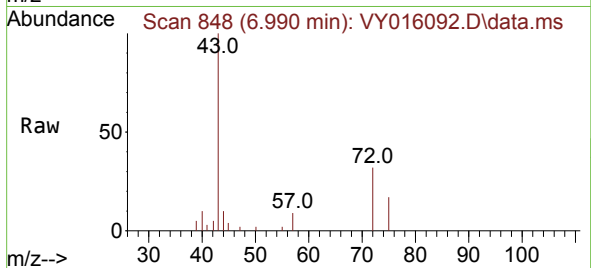
ClientSampleId :

Tgt Ion: 43 Resp: 8092

Ion Ratio Lower Upper

43 100

72 31.7 20.5 30.7#



#31

Cyclohexane

Concen: 1.557 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

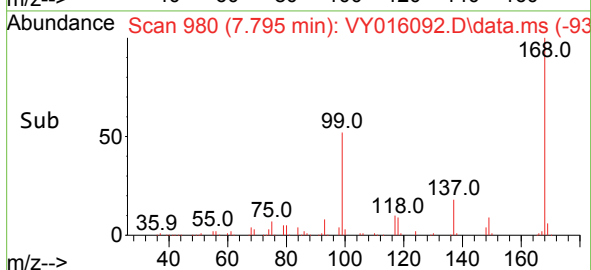
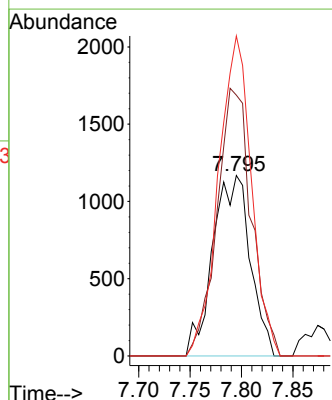
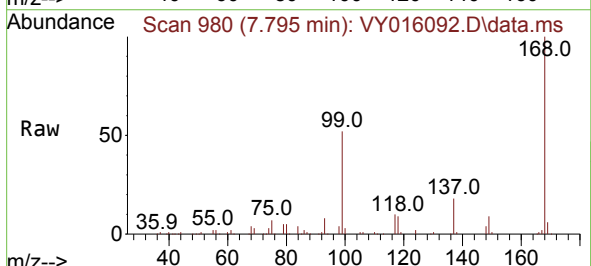
Tgt Ion: 56 Resp: 2959

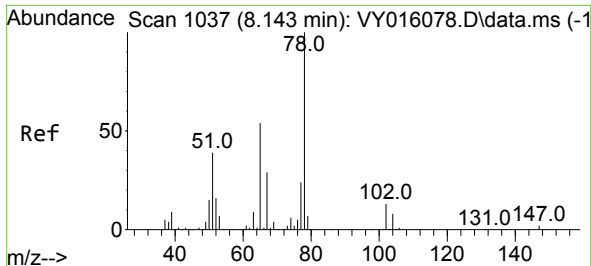
Ion Ratio Lower Upper

56 100

69 144.5 27.8 41.6#

84 177.3 66.4 99.6#

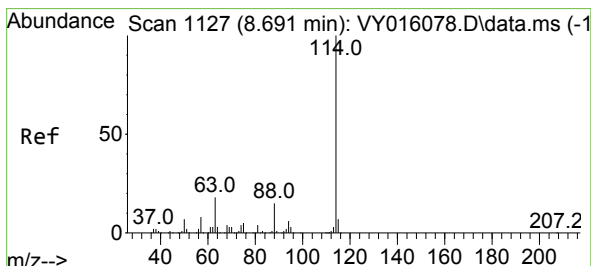
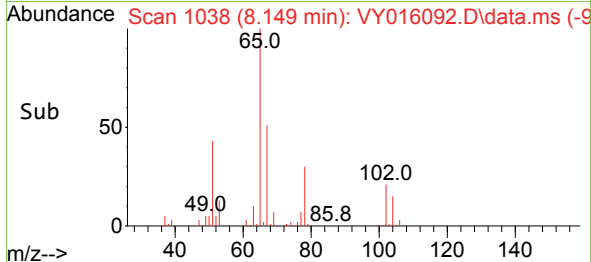
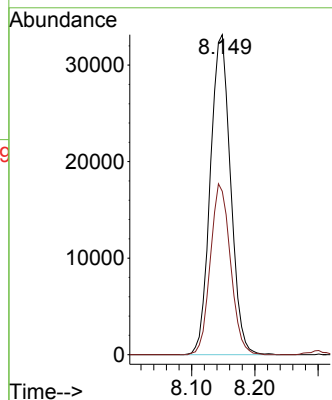
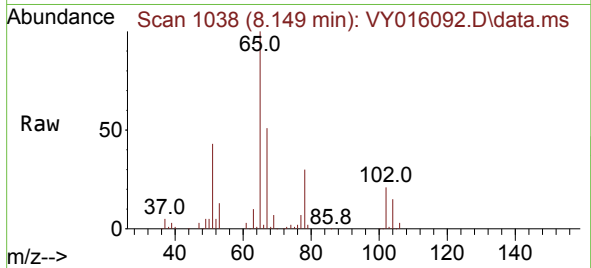




#33
 1,2-Dichloroethane-d4
 Concen: 60.924 ug/l
 RT: 8.149 min Scan# 1037
 Delta R.T. 0.006 min
 Lab File: VY016092.D
 Acq: 26 Oct 2023 21:03

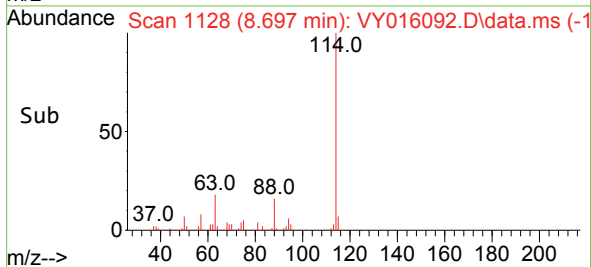
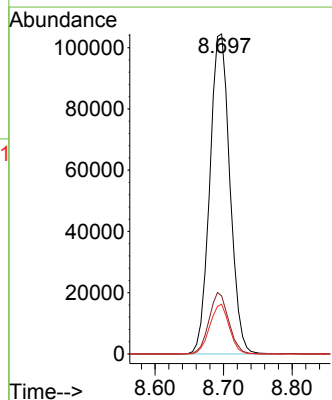
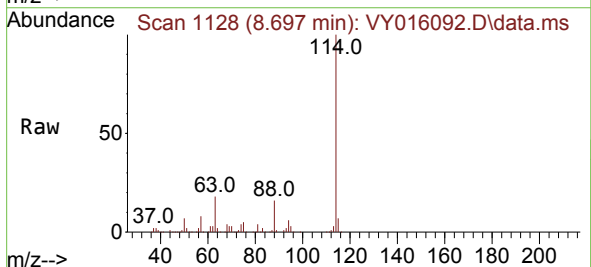
Instrument :
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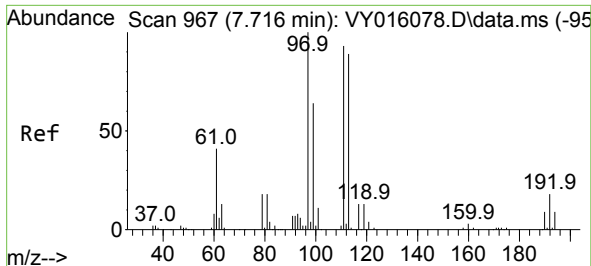
Tgt Ion: 65 Resp: 73611
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.697 min Scan# 1128
 Delta R.T. 0.006 min
 Lab File: VY016092.D
 Acq: 26 Oct 2023 21:03

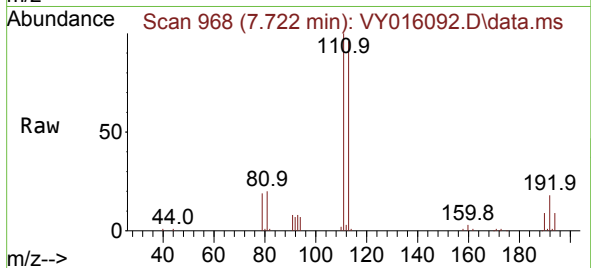
Tgt Ion: 114 Resp: 212871
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 42.4
 88 15.5 0.0 30.6



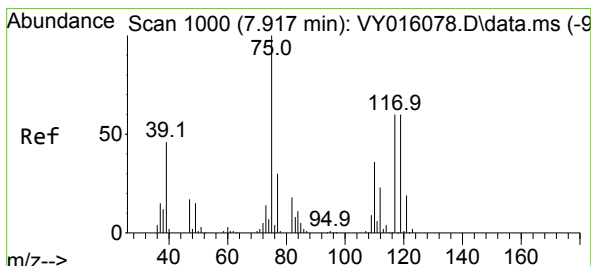
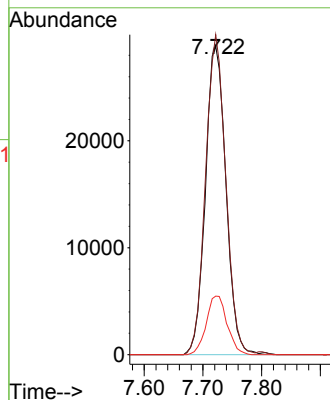
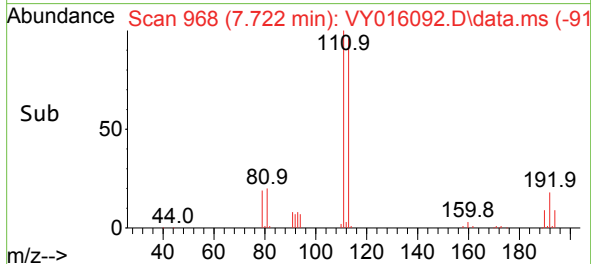


#35
Dibromofluoromethane
Concen: 52.137 ug/l
RT: 7.722 min Scan# 90
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

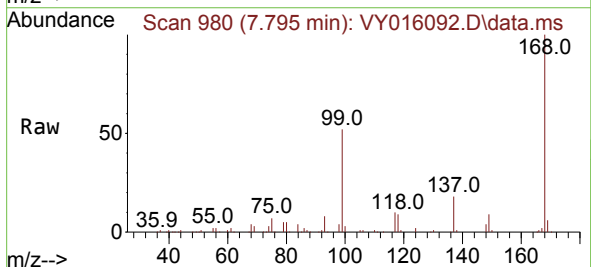
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MSVOA_Y
ClientSampleId :



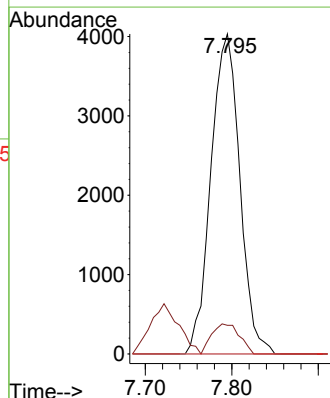
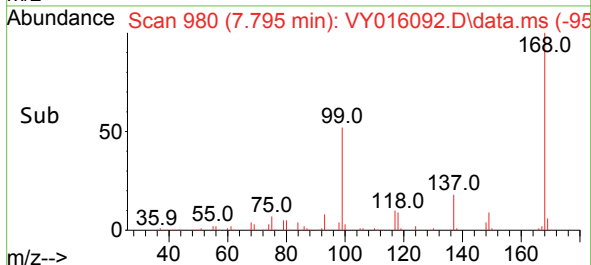
Tgt Ion:113 Resp: 70064
Ion Ratio Lower Upper
113 100
111 101.8 81.3 121.9
192 19.3 16.9 25.3

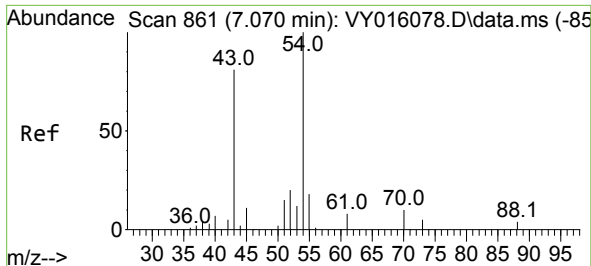


#36
1,1-Dichloropropene
Concen: 4.992 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.122 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03



Tgt Ion: 75 Resp: 9351
Ion Ratio Lower Upper
75 100
110 9.1 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 8.428 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.079 min

Lab File: VY016092.D

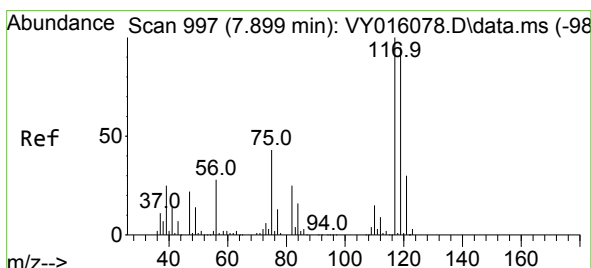
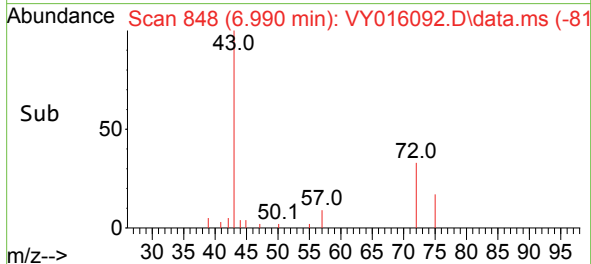
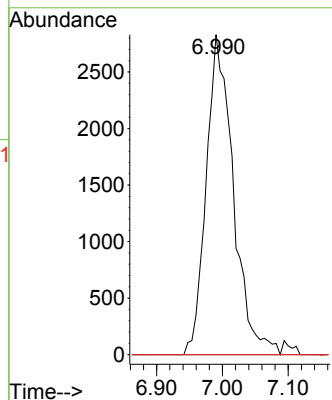
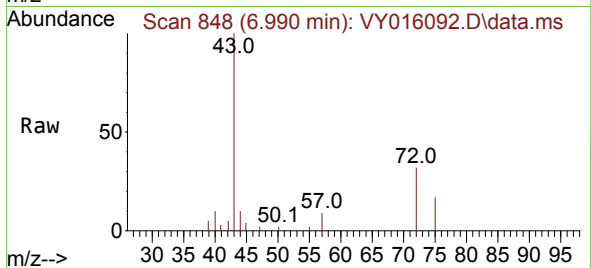
Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	43	Resp:	8092
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.1	15.1#
70	0.0	7.1	10.7#



#38

Carbon Tetrachloride

Concen: 6.107 ug/l

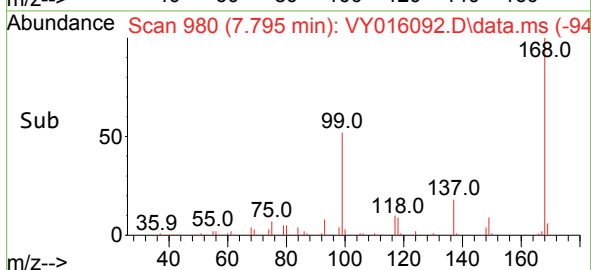
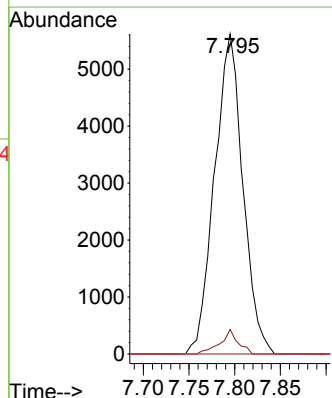
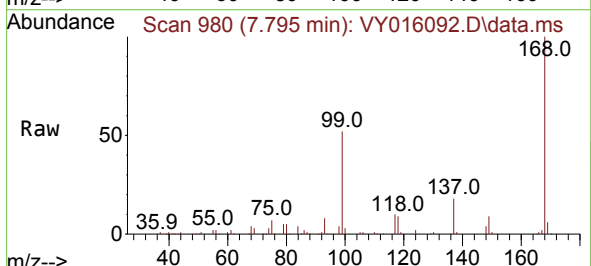
RT: 7.795 min Scan# 980

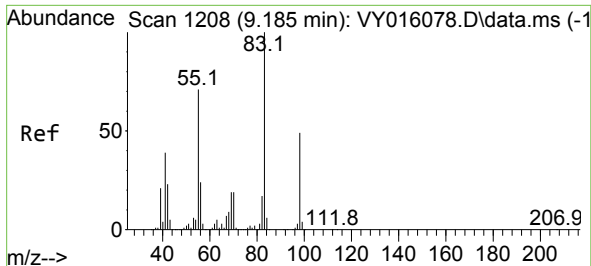
Delta R.T. -0.104 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

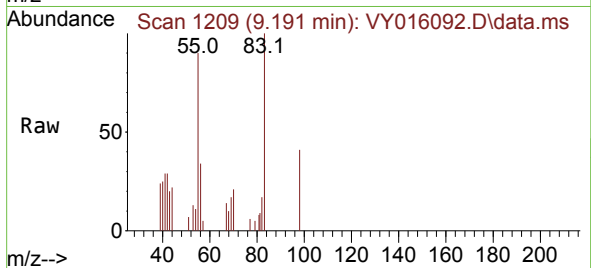
Tgt Ion:	117	Resp:	12098
Ion	Ratio	Lower	Upper
117	100		
119	7.6	76.4	114.6#
121	0.0	25.8	38.6#



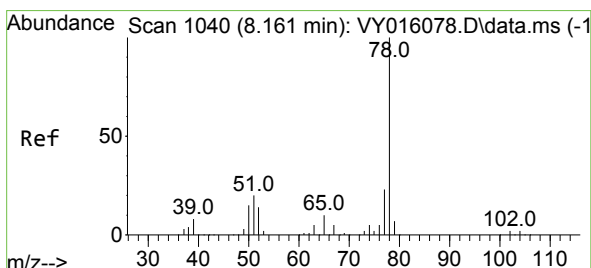
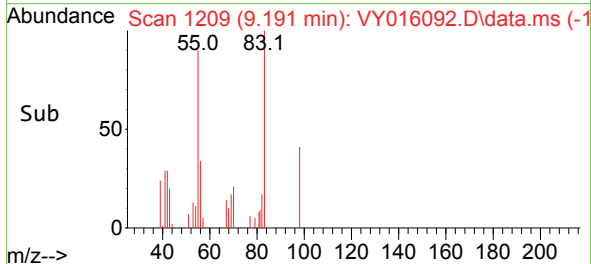
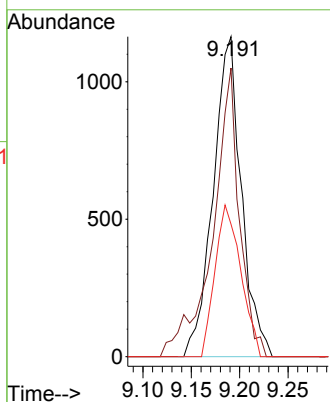


#39
Methylcyclohexane
Concen: 1.033 ug/l
RT: 9.191 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Instrument :
MSVOA_Y
ClientSampleId :

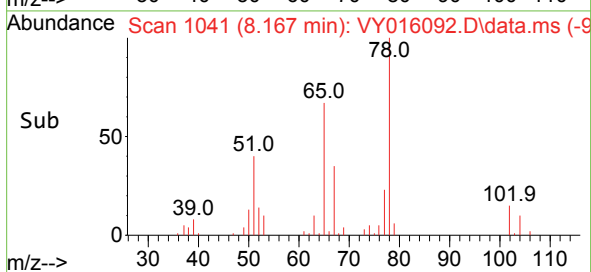
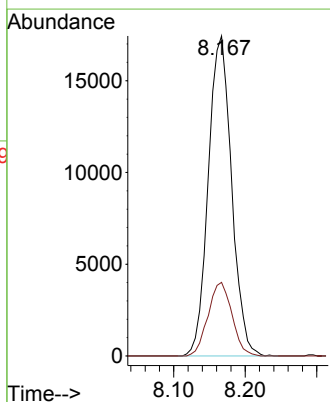
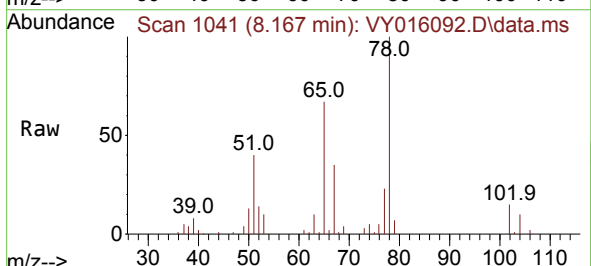


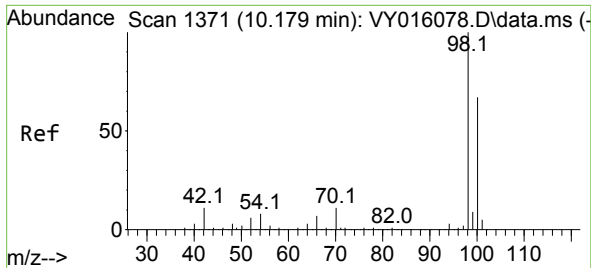
Tgt Ion: 83 Resp: 2358
Ion Ratio Lower Upper
83 100
55 90.2 63.0 94.4
98 41.4 37.4 56.2



#40
Benzene
Concen: 7.432 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion: 78 Resp: 39417
Ion Ratio Lower Upper
78 100
77 23.0 19.0 28.6

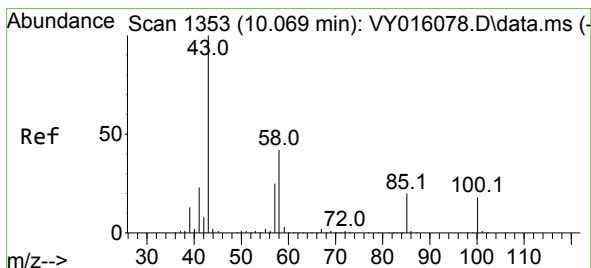
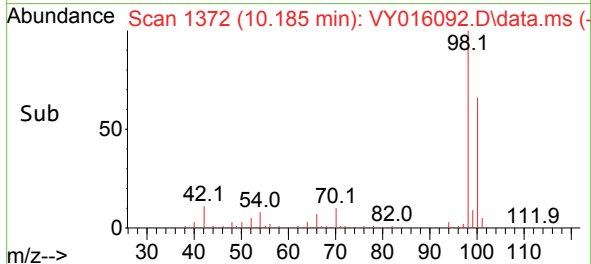
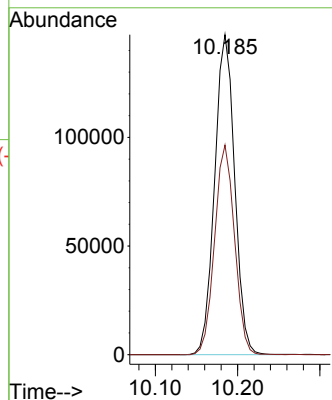
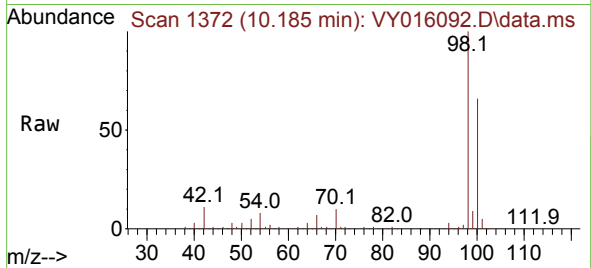




#50
Toluene-d8
Concen: 50.070 ug/l
RT: 10.185 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

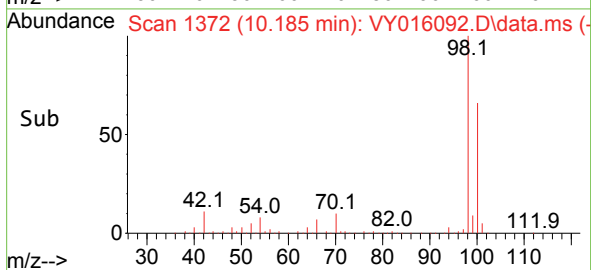
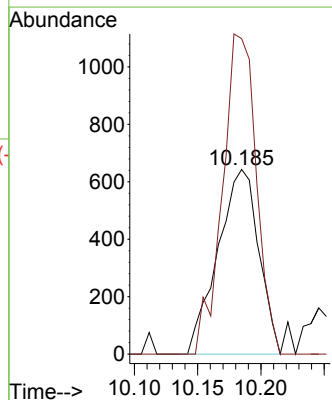
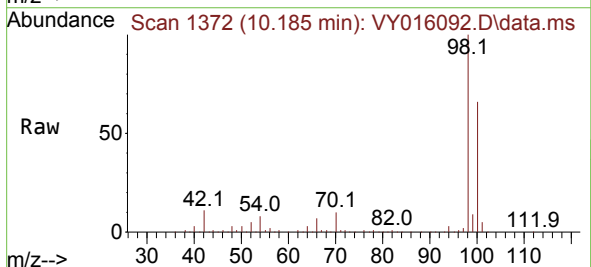
Instrument :
MSVOA_Y
ClientSampleId :

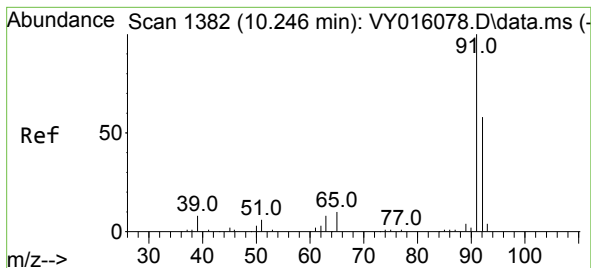
Tgt Ion: 98 Resp: 249241
Ion Ratio Lower Upper
98 100
100 65.2 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 1.528 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.116 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion: 43 Resp: 1447
Ion Ratio Lower Upper
43 100
58 143.3 29.0 43.6#





#52

Toluene

Concen: 3.559 ug/l

RT: 10.252 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

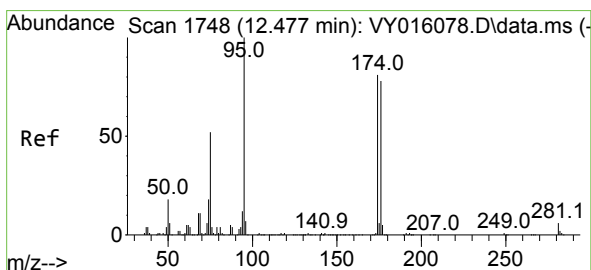
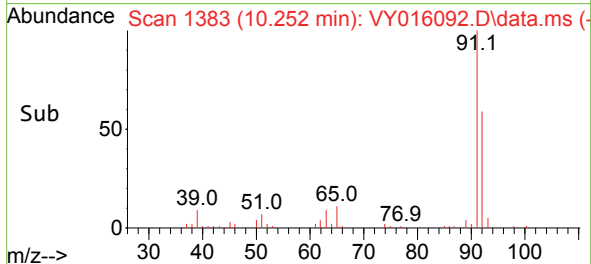
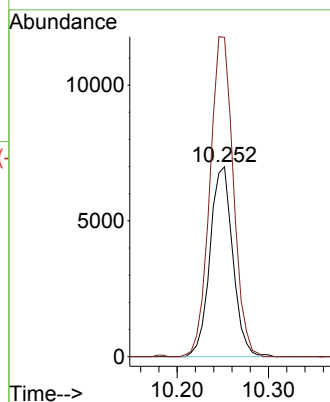
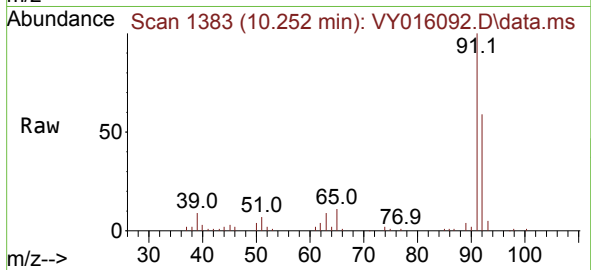
ClientSampleId :

Tgt Ion: 92 Resp: 12121

Ion Ratio Lower Upper

92 100

91 173.6 143.8 215.6



#62

4-Bromofluorobenzene

Concen: 49.732 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.012 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

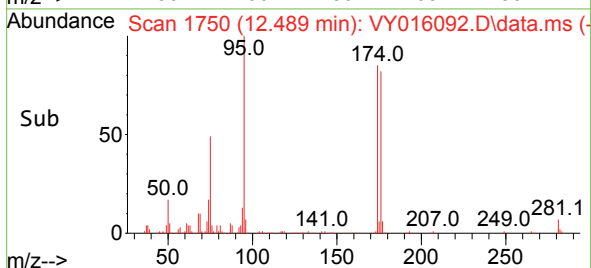
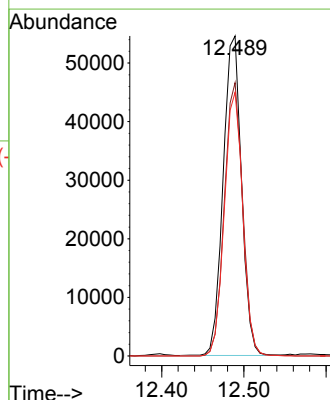
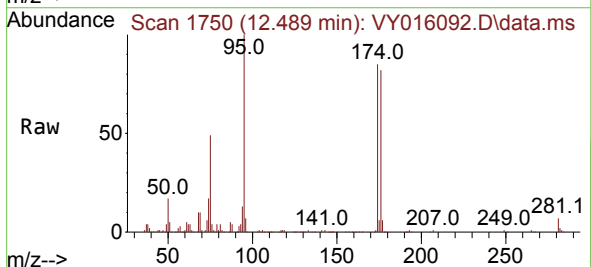
Tgt Ion: 95 Resp: 84918

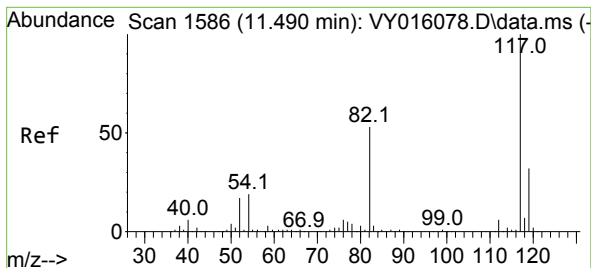
Ion Ratio Lower Upper

95 100

174 85.6 0.0 178.2

176 82.7 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.495 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

ClientSampleId :

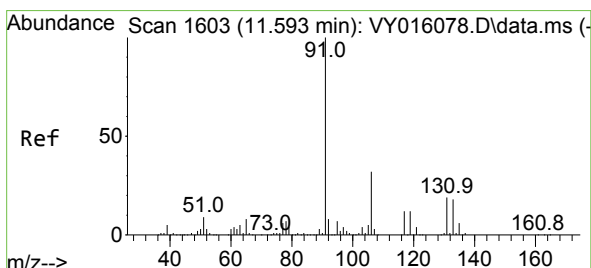
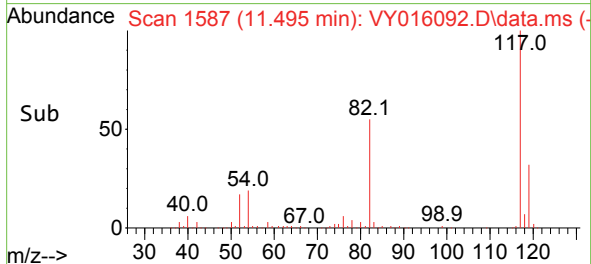
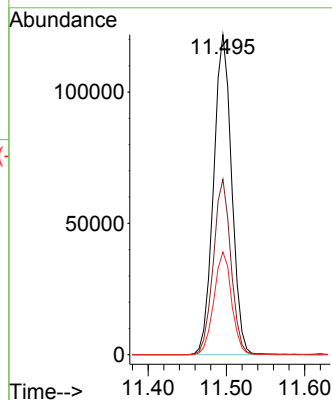
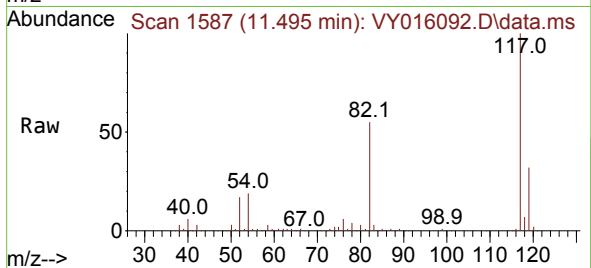
Tgt Ion:117 Resp: 195427

Ion Ratio Lower Upper

117 100

82 54.8 43.4 65.0

119 32.1 26.3 39.5



#67

Ethyl Benzene

Concen: 38.018 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. 0.006 min

Lab File: VY016092.D

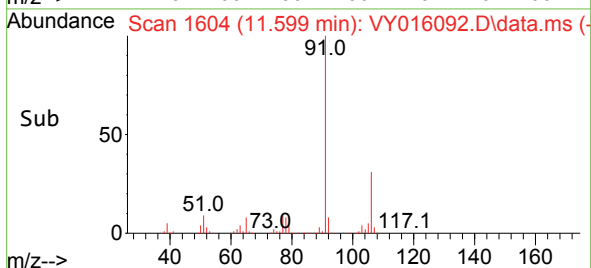
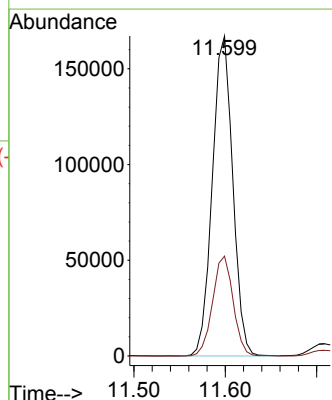
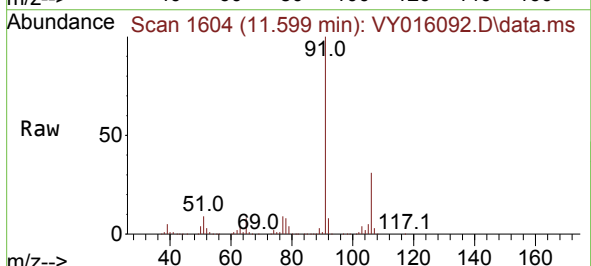
Acq: 26 Oct 2023 21:03

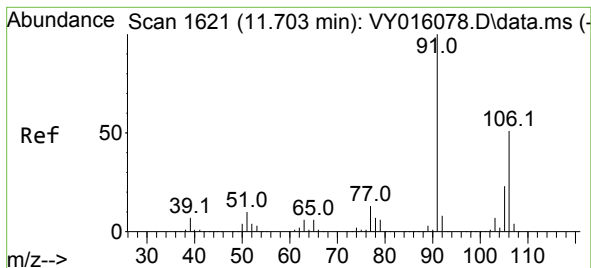
Tgt Ion: 91 Resp: 259338

Ion Ratio Lower Upper

91 100

106 31.2 24.6 36.8

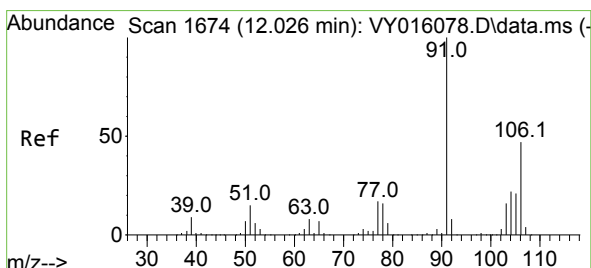
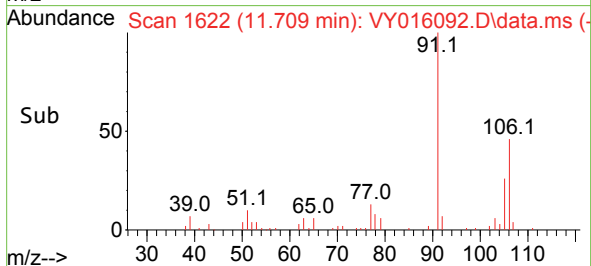
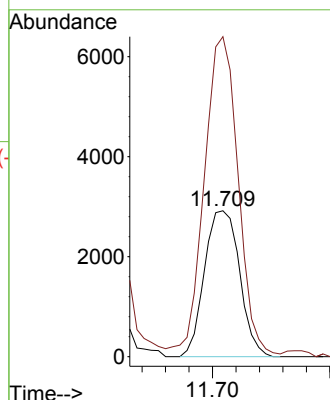
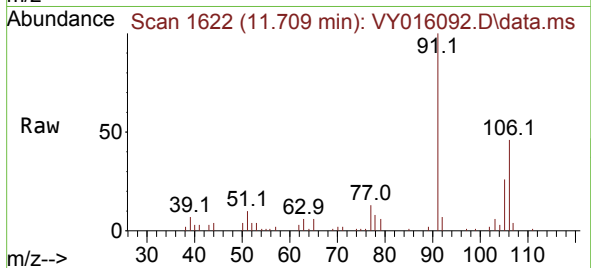




#68
m/p-Xylenes
Concen: 2.293 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

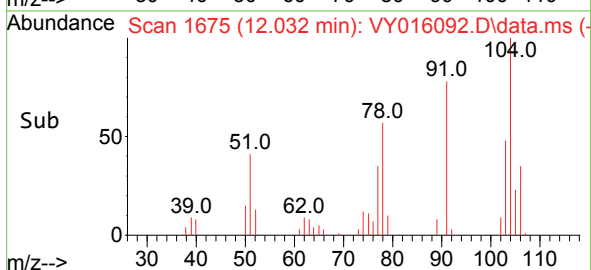
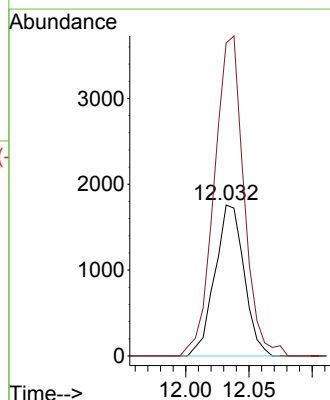
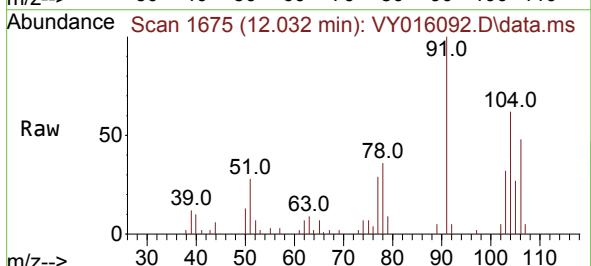
Instrument :
MSVOA_Y
ClientSampleId :

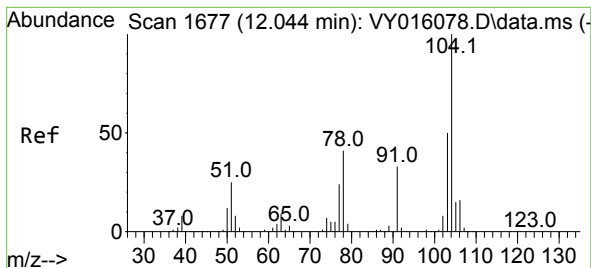
Tgt Ion:106 Resp: 6053
Ion Ratio Lower Upper
106 100
91 208.8 166.1 249.1



#69
o-Xylene
Concen: 1.116 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion:106 Resp: 2821
Ion Ratio Lower Upper
106 100
91 215.1 108.1 324.3





#70

Styrene

Concen: 3.490 ug/l

RT: 12.050 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

ClientSampleId :

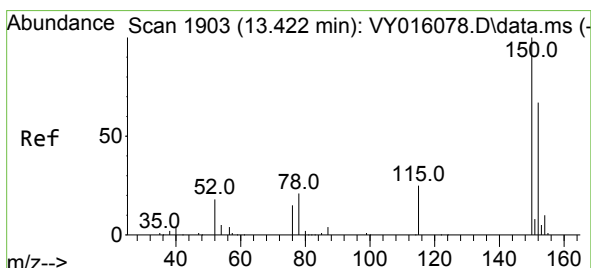
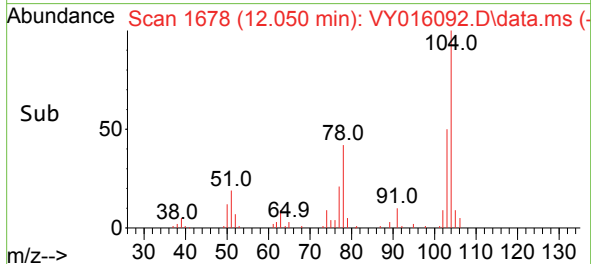
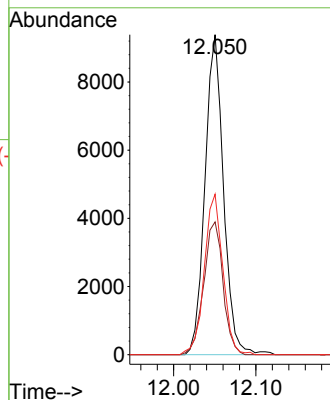
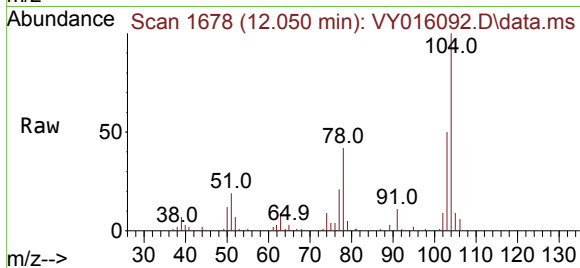
Tgt Ion:104 Resp: 14704

Ion Ratio Lower Upper

104 100

78 43.3 41.5 62.3

103 50.1 44.6 67.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

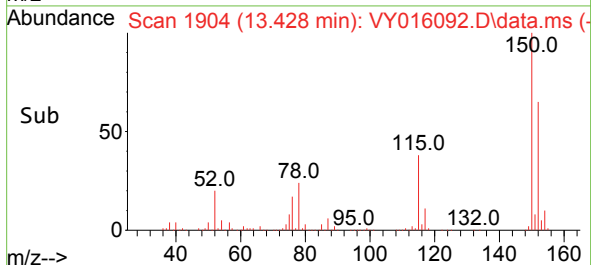
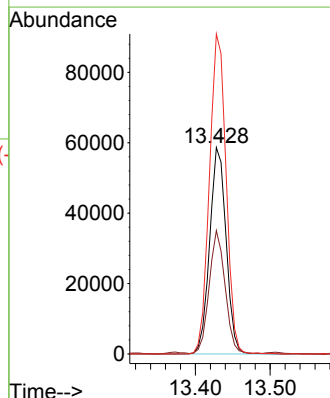
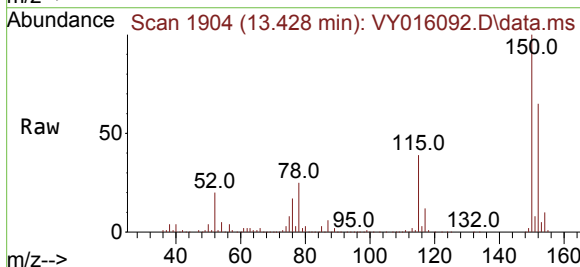
Tgt Ion:152 Resp: 89869

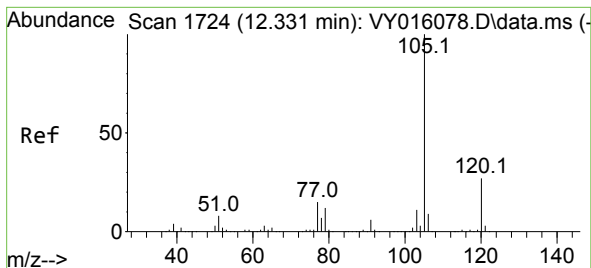
Ion Ratio Lower Upper

152 100

115 57.2 28.8 86.5

150 156.8 0.0 348.8





#73

Isopropylbenzene

Concen: 2.429 ug/l

RT: 12.331 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

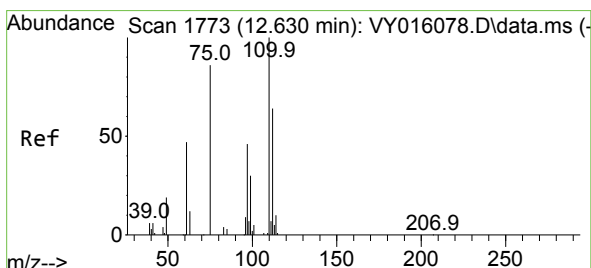
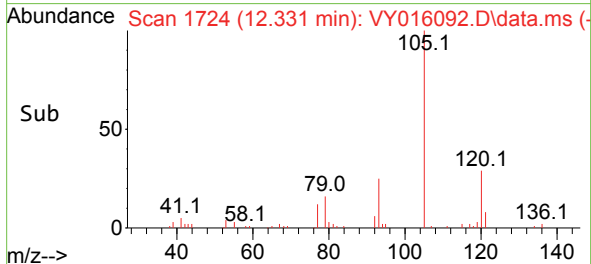
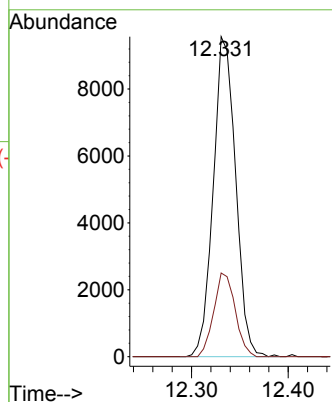
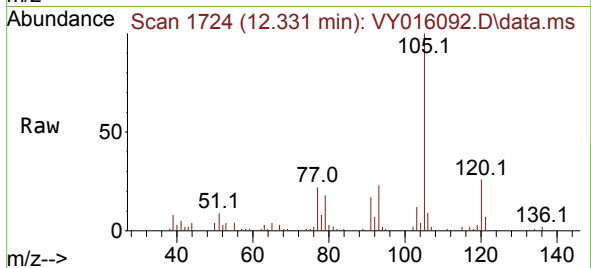
ClientSampleId :

Tgt Ion:105 Resp: 15360

Ion Ratio Lower Upper

105 100

120 25.0 13.3 39.9



#76

1,2,3-Trichloropropane

Concen: 47.928 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY016092.D

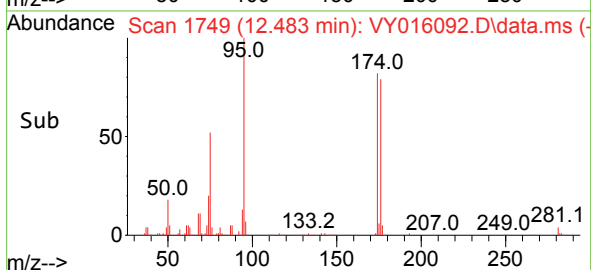
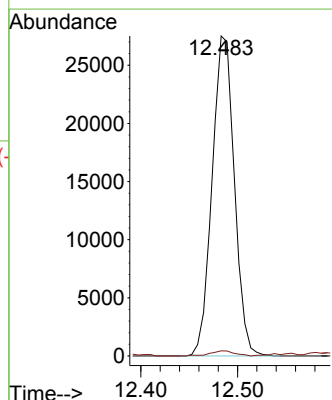
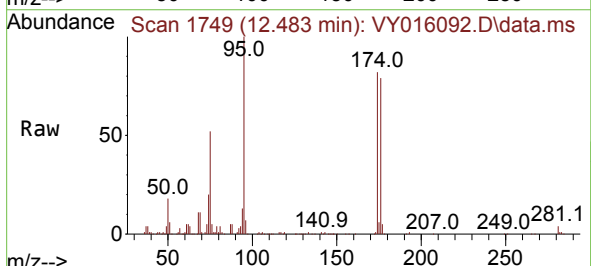
Acq: 26 Oct 2023 21:03

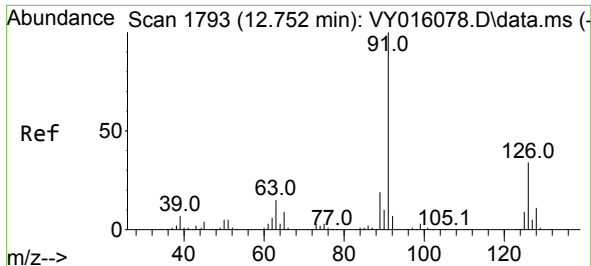
Tgt Ion: 75 Resp: 43975

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#

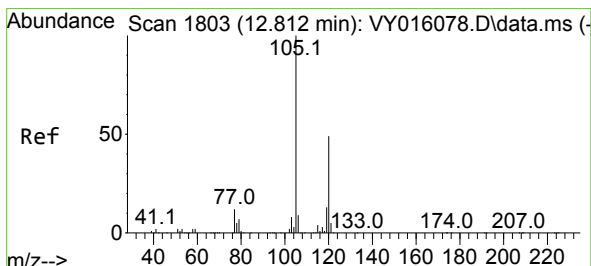
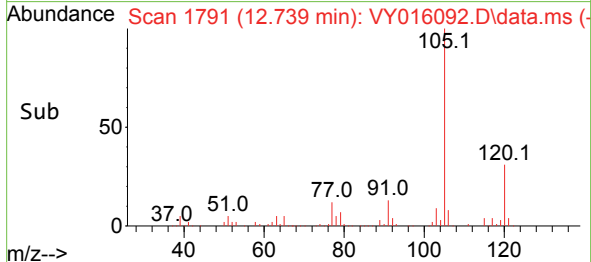
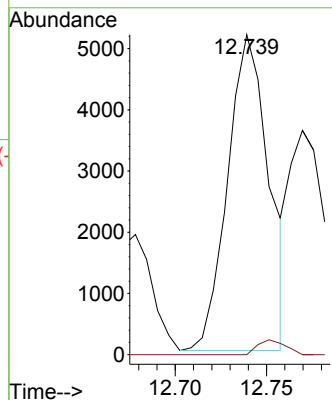
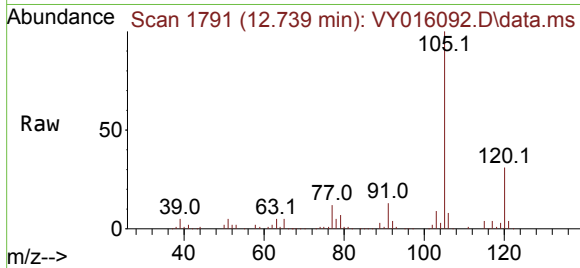




#79
2-Chlorotoluene
Concen: 1.883 ug/l
RT: 12.739 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

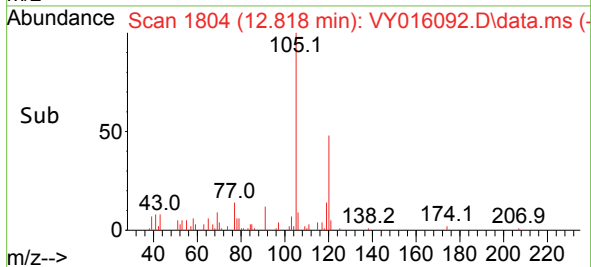
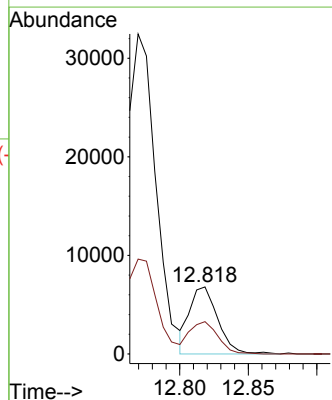
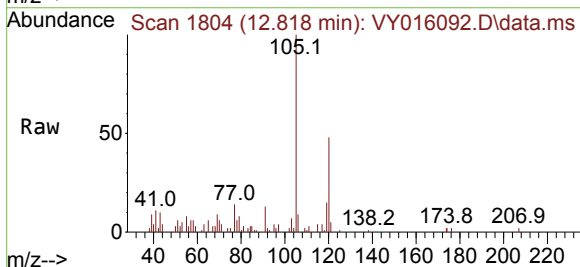
Instrument :
MSVOA_Y
ClientSampleId :

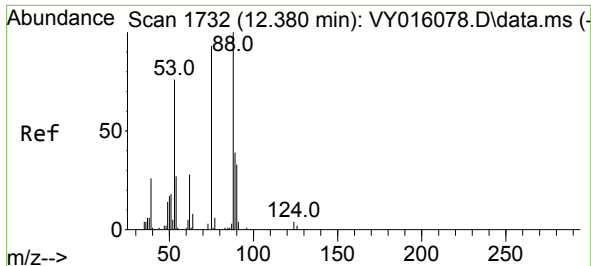
Tgt Ion: 91 Resp: 8078
Ion Ratio Lower Upper
91 100
126 3.1 17.3 51.7#



#80
1,3,5-Trimethylbenzene
Concen: 1.843 ug/l
RT: 12.818 min Scan# 1804
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion:105 Resp: 9679
Ion Ratio Lower Upper
105 100
120 48.7 23.9 71.7

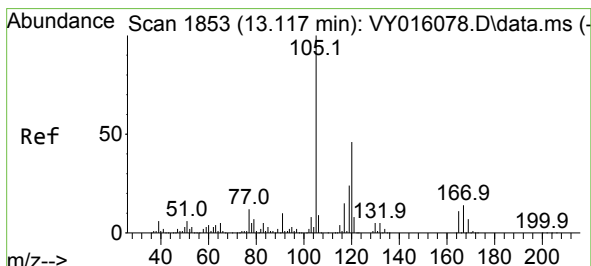
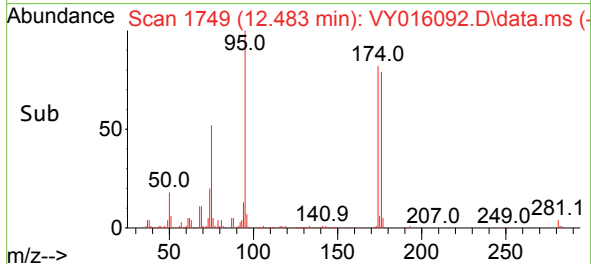
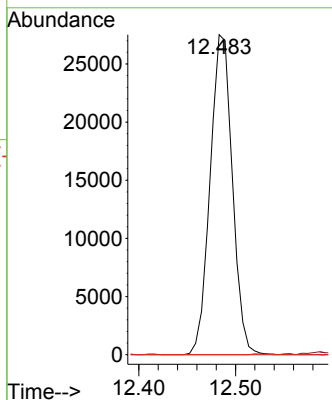
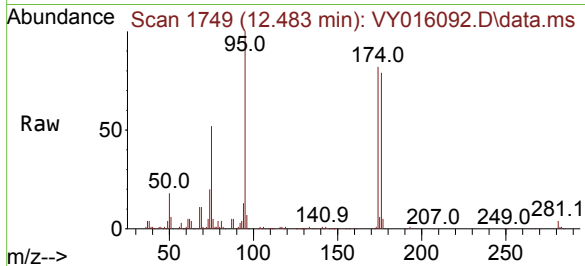




#81
trans-1,4-Dichloro-2-butene
Concen: 104.152 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

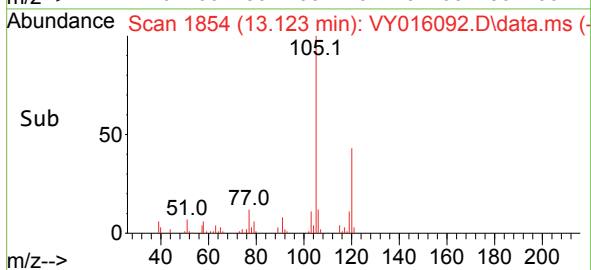
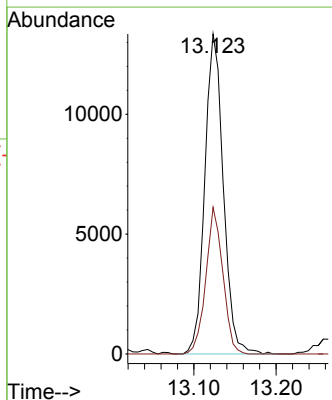
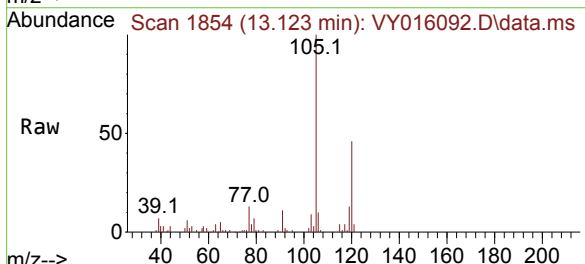
Instrument :
MSVOA_Y
ClientSampleId :

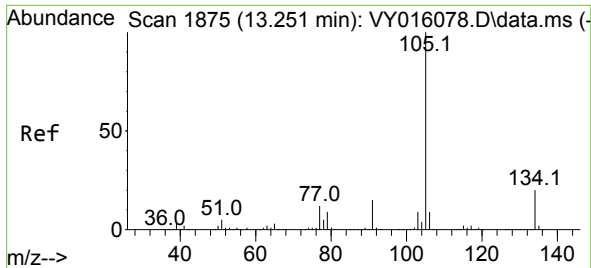
Tgt Ion: 75 Resp: 43975
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 4.028 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion: 105 Resp: 20888
Ion Ratio Lower Upper
105 100
120 42.0 22.2 66.6

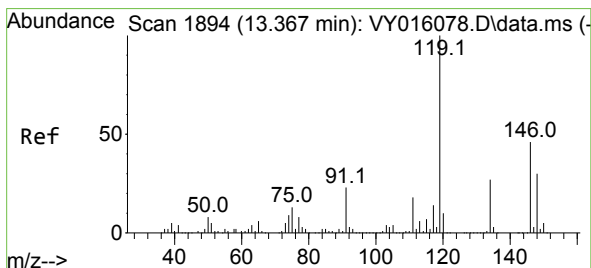
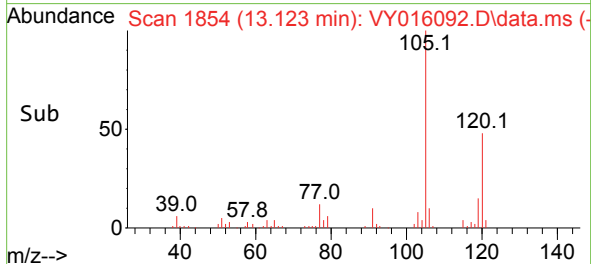
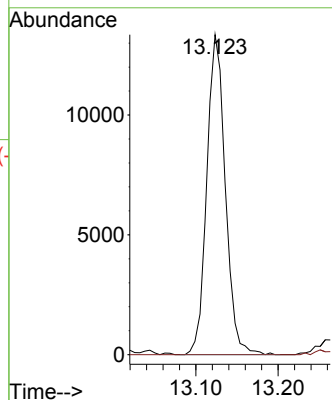
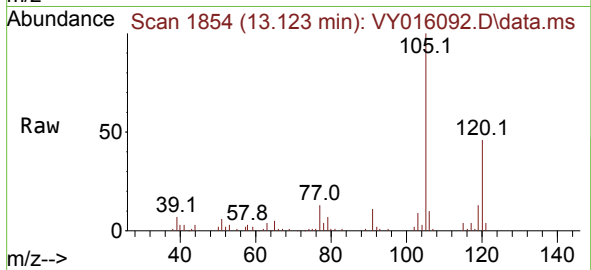




#85
 sec-Butylbenzene
 Concen: 3.005 ug/l
 RT: 13.123 min Scan# 1854
 Delta R.T. -0.128 min
 Lab File: VY016092.D
 Acq: 26 Oct 2023 21:03

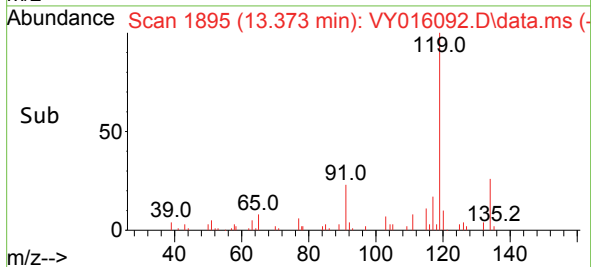
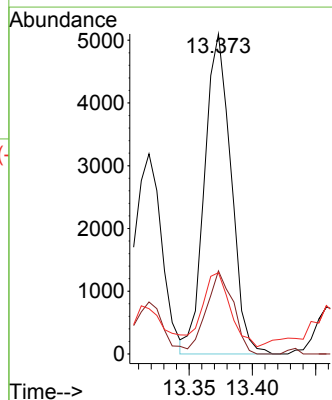
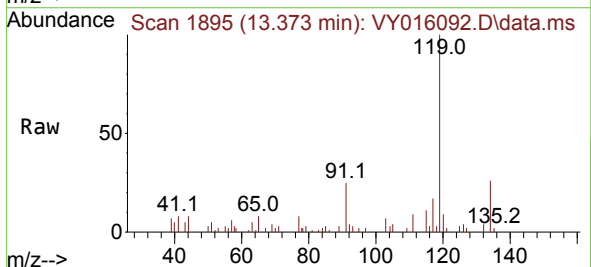
Instrument :
 MSVOA_Y
 ClientSampleId :

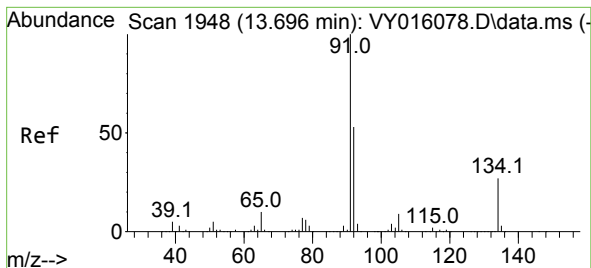
Tgt Ion:105 Resp: 20888
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.6#



#86
 p-Isopropyltoluene
 Concen: 1.280 ug/l
 RT: 13.373 min Scan# 1895
 Delta R.T. 0.006 min
 Lab File: VY016092.D
 Acq: 26 Oct 2023 21:03

Tgt Ion:119 Resp: 7424
 Ion Ratio Lower Upper
 119 100
 134 26.0 13.3 39.8
 91 23.8 12.4 37.4





#89

n-Butylbenzene

Concen: 3.152 ug/l

RT: 13.629 min Scan# 1948

Delta R.T. -0.067 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

ClientSampleId :

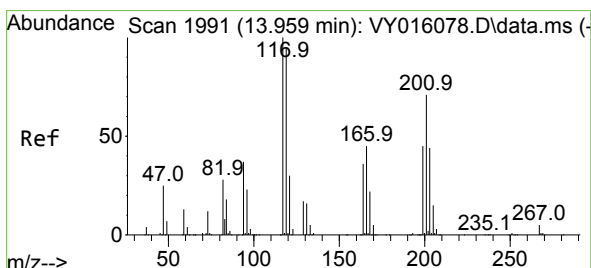
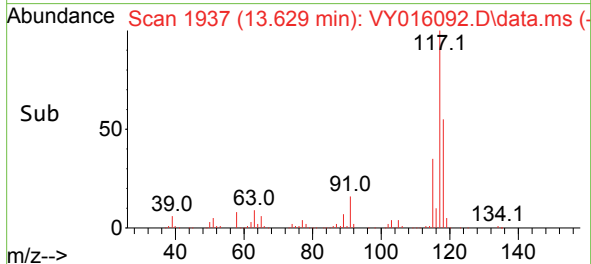
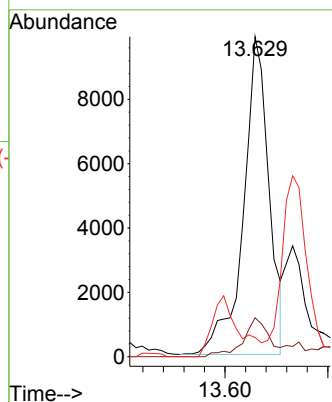
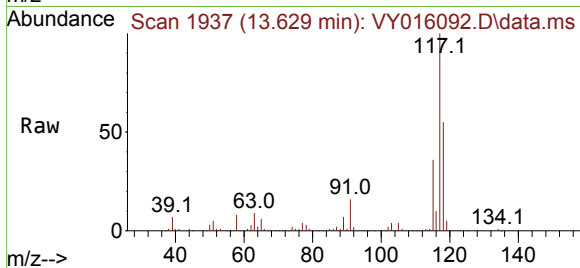
Tgt Ion: 91 Resp: 17057

Ion Ratio Lower Upper

91 100

92 12.2 25.4 76.0#

134 0.0 12.6 37.6#



#90

Hexachloroethane

Concen: 3.011 ug/l

RT: 13.977 min Scan# 1994

Delta R.T. 0.018 min

Lab File: VY016092.D

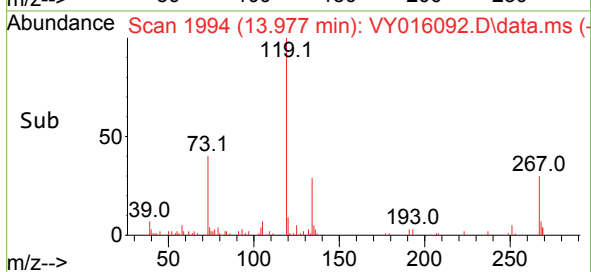
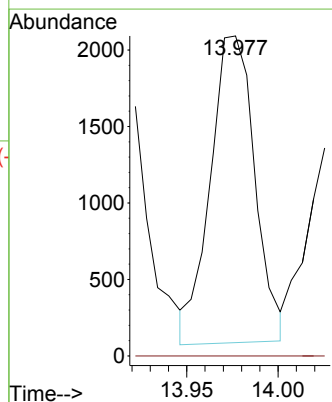
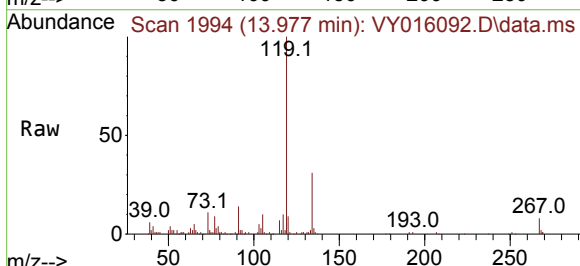
Acq: 26 Oct 2023 21:03

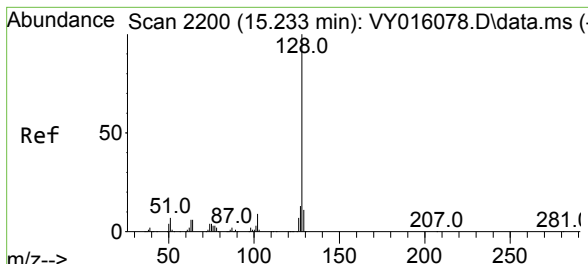
Tgt Ion: 117 Resp: 3401

Ion Ratio Lower Upper

117 100

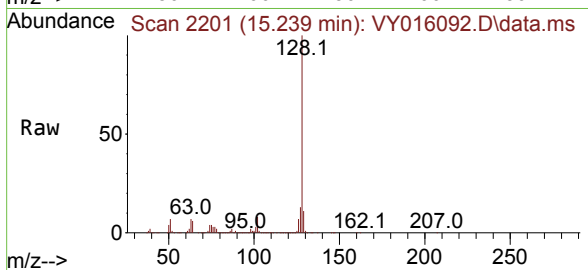
201 0.0 41.6 124.8#





#95
 Naphthalene
 Concen: 66.991 ug/l
 RT: 15.239 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY016092.D
 Acq: 26 Oct 2023 21:03

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:128 Resp: 213298

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.8	16.2
129	11.1	8.6	13.0

