

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY061920\
 Data File : VY002958.D
 Acq On : 19 Jun 2020 23:22
 Operator : SY/MD
 Sample : L3063-15
 Misc : 5.06G/5ML/MSVOA_Y/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TW-11

Quant Time: Jun 20 04:00:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y061920S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 19 15:04:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	272006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	447170	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	425031	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	216802	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	130628	58.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.28%	
35) Dibromofluoromethane	7.72	113	137033	54.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.32%	
50) Toluene-d8	10.18	98	531441	53.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.54%	
62) 4-Bromofluorobenzene	12.48	95	188369	54.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.86%	

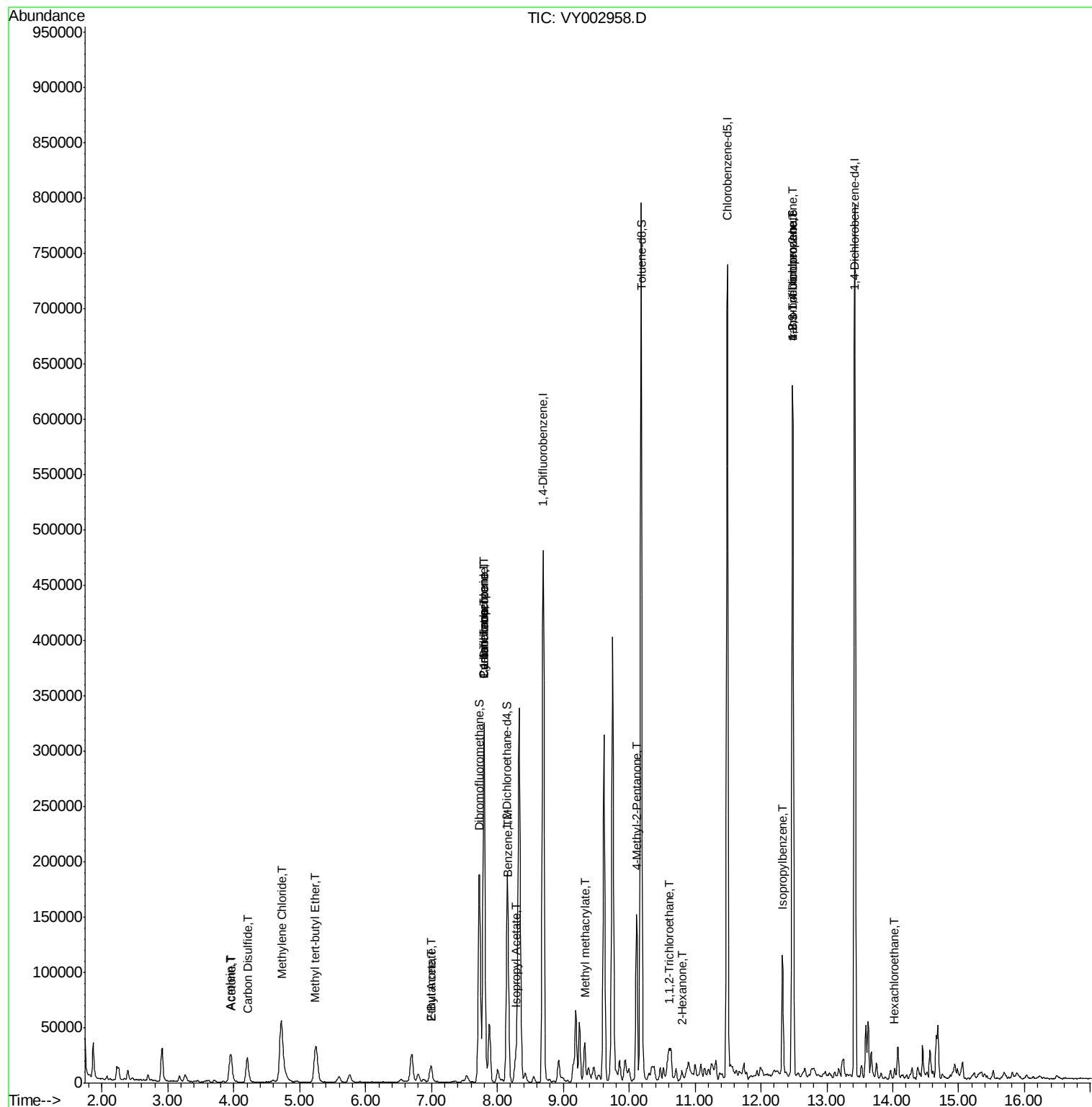
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.97	59	1236	Below Cal	#	74
13) Acrolein	3.94	56	4206	18.635	ug/l #	73
16) Acetone	3.96	43	28133	50.557	ug/l #	79
17) Carbon Disulfide	4.21	76	44347	6.616	ug/l	99
18) Methyl Acetate	4.48	43	1262	Below Cal	#	72
19) Methyl tert-butyl Ether	5.23	73	15947	2.583	ug/l #	1
20) Methylene Chloride	4.73	84	26404	3.646	ug/l	95
25) 2-Butanone	6.99	43	6271	7.521	ug/l #	78
31) Cyclohexane	7.80	56	6230	1.615	ug/l #	3
36) 1,1-Dichloropropene	7.80	75	16860	4.643	ug/l #	48
37) Ethyl Acetate	6.99	43	6271	3.110	ug/l #	73
38) Carbon Tetrachloride	7.80	117	24069	6.014	ug/l #	16
40) Benzene	8.17	78	35275	3.263	ug/l	97
43) Isopropyl Acetate	8.27	43	5644	1.503	ug/l #	50
48) Methyl methacrylate	9.32	41	8668	5.144	ug/l #	22
51) 4-Methyl-2-Pentanone	10.11	43	13801	6.935	ug/l #	78
55) 1,1,2-Trichloroethane	10.62	97	6581	2.843	ug/l #	31
59) 2-Hexanone	10.81	43	4109	2.937	ug/l #	27
73) Isopropylbenzene	12.33	105	68782	5.177	ug/l	99
76) 1,2,3-Trichloropropane	12.48	75	88363	46.799	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	88363	89.349	ug/l #	16
90) Hexachloroethane	14.03	117	4305	1.826	ug/l #	4

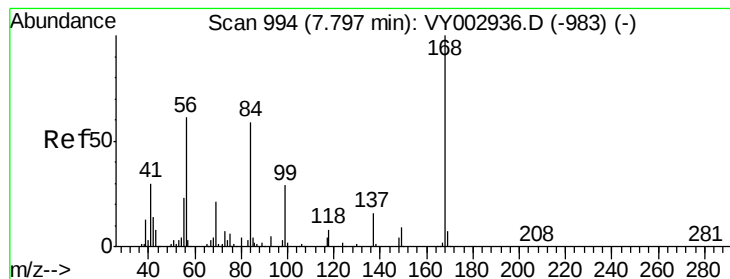
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

Instrument :

MSVOA_Y

ClientSampleId :

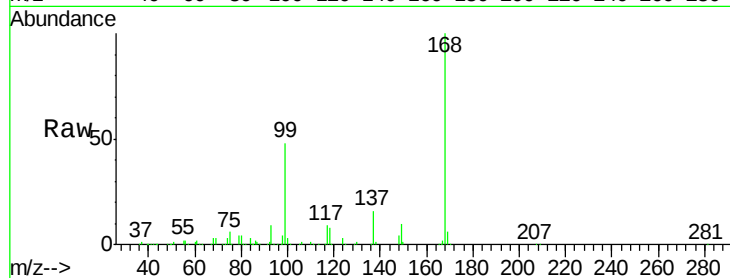
TW-11

Tgt Ion:168 Resp: 272006

Ion Ratio Lower Upper

168 100

99 48.1 39.5 59.3



Abundance Ion 167.90 (167.60 to 168.60): VY002936.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY002936.D (-983) (-)

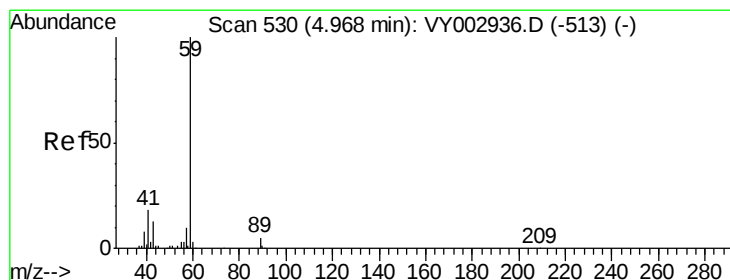
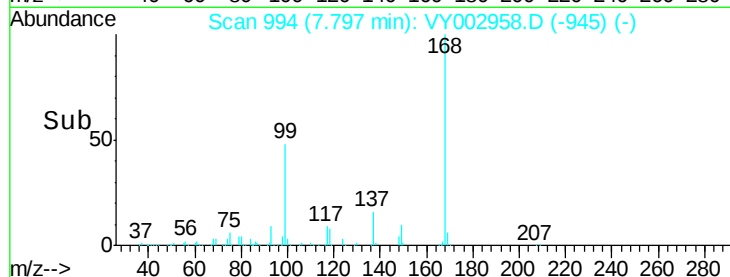
7.80

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.97 min Scan# 530

Delta R.T. 0.00 min

Lab File: VY002958.D

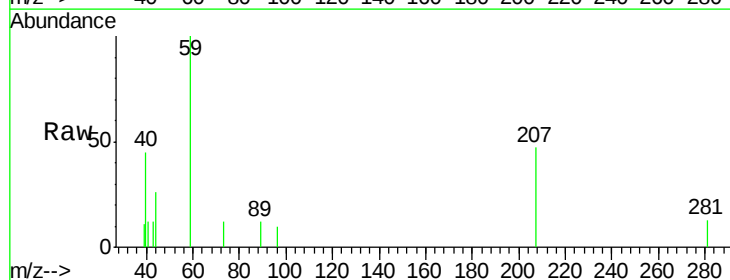
Acq: 19 Jun 2020 23:22

Tgt Ion: 59 Resp: 1236

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY002936.D (-513) (-)

Ion 57.00 (56.70 to 57.70): VY002936.D (-513) (-)

4.97

600

500

400

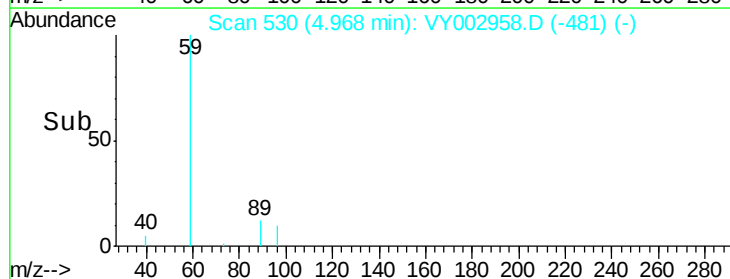
300

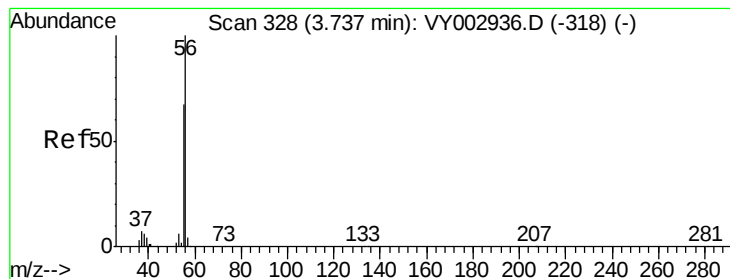
200

100

0

Time-->





#13

Acrolein

Concen: 18.635 ug/l

RT: 3.94 min Scan# 361

Delta R.T. 0.20 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

Instrument :

MSVOA_Y

ClientSampled :

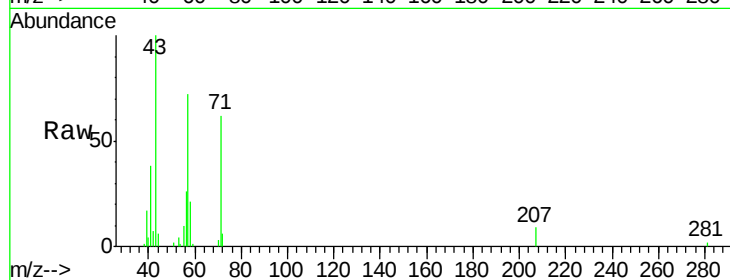
TW-11

Tgt Ion: 56 Resp: 4206

Ion Ratio Lower Upper

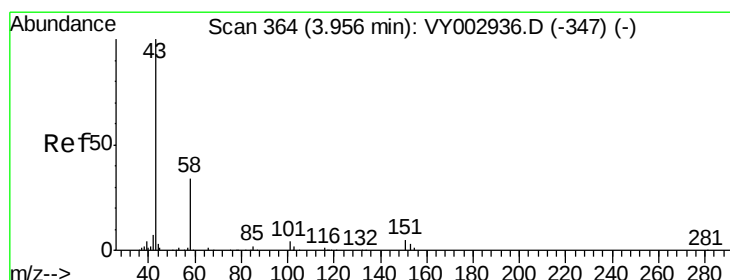
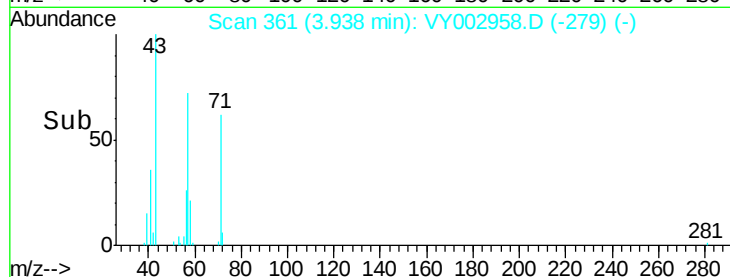
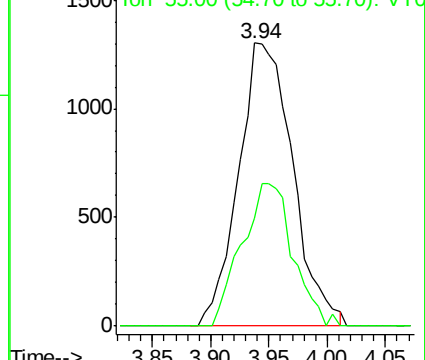
56 100

55 47.5 55.3 82.9#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#16

Acetone

Concen: 50.557 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY002958.D

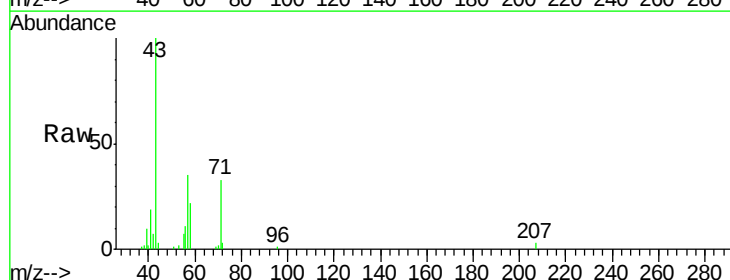
Acq: 19 Jun 2020 23:22

Tgt Ion: 43 Resp: 28133

Ion Ratio Lower Upper

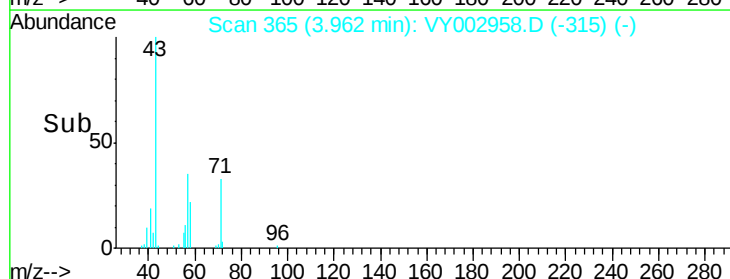
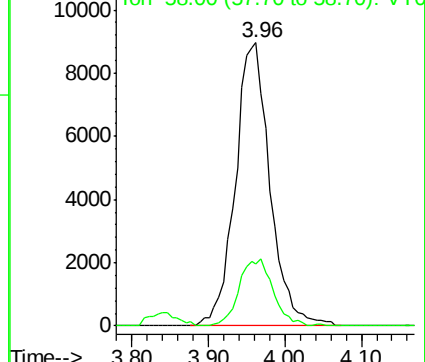
43 100

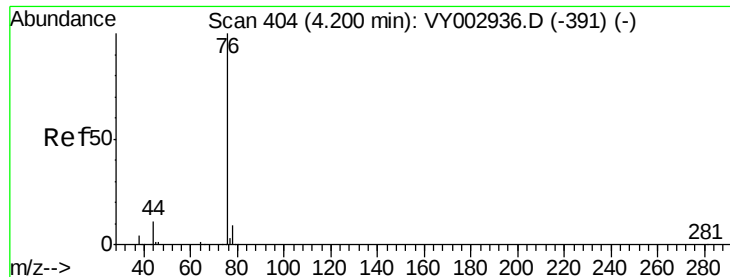
58 22.0 27.3 40.9#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

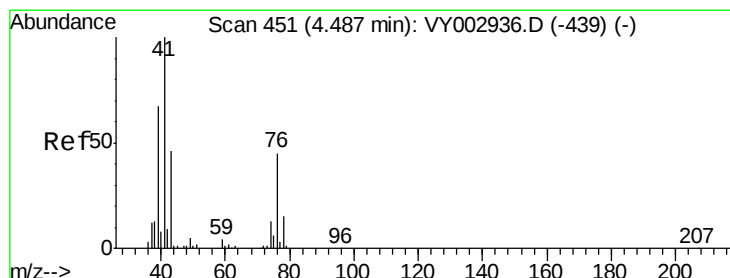
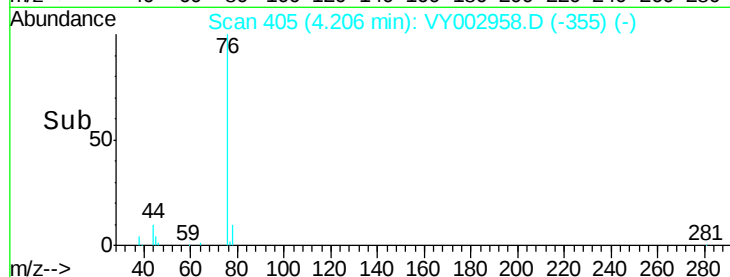
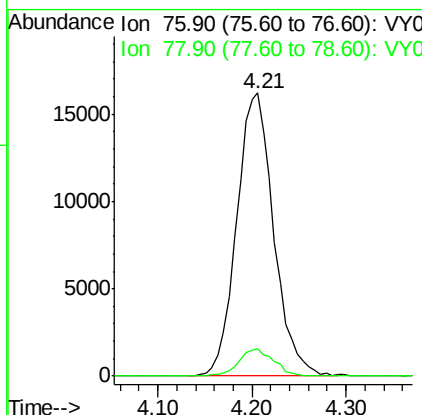
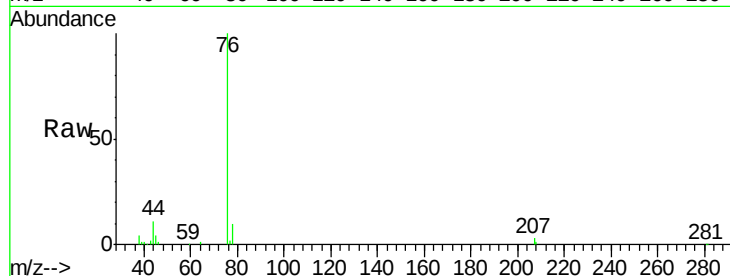




#17
Carbon Disulfide
Concen: 6.616 ug/l
RT: 4.21 min Scan# 405
Delta R.T. 0.01 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

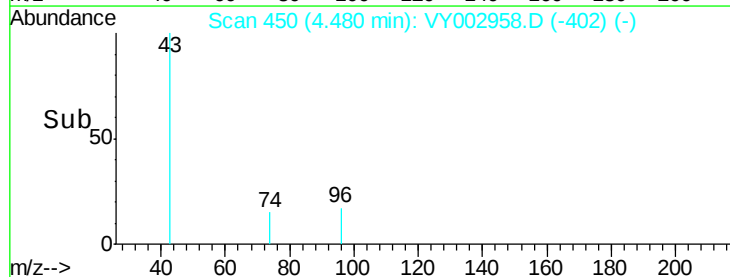
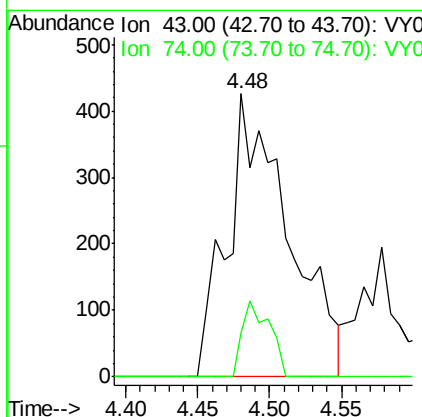
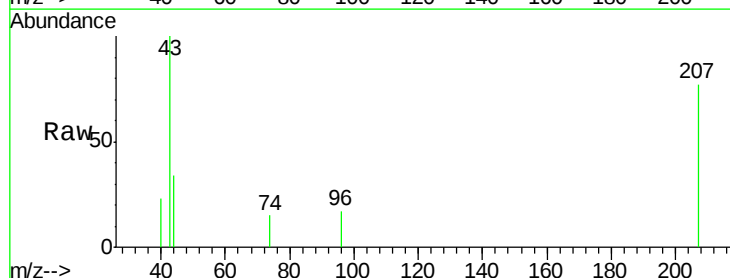
Instrument :
MSVOA_Y
ClientSampleId :
TW-11

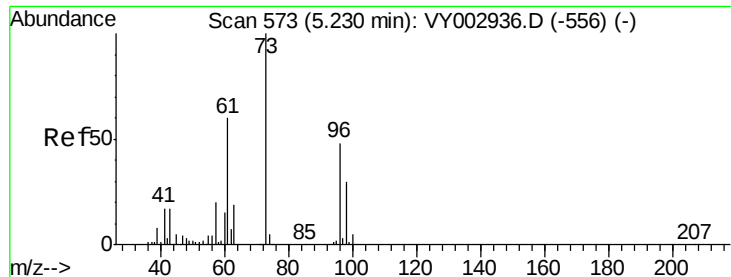
Tgt Ion: 76 Resp: 44347
Ion Ratio Lower Upper
76 100
78 9.7 7.4 11.2



#18
Methyl Acetate
Concen: Below Cal
RT: 4.48 min Scan# 450
Delta R.T. -0.01 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

Tgt Ion: 43 Resp: 1262
Ion Ratio Lower Upper
43 100
74 11.8 21.1 31.7#



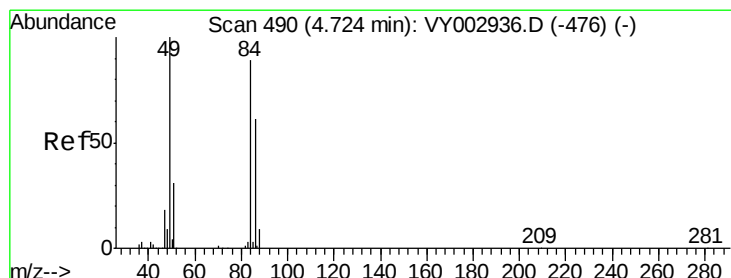
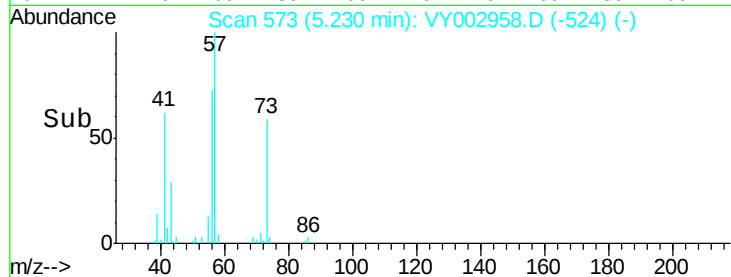
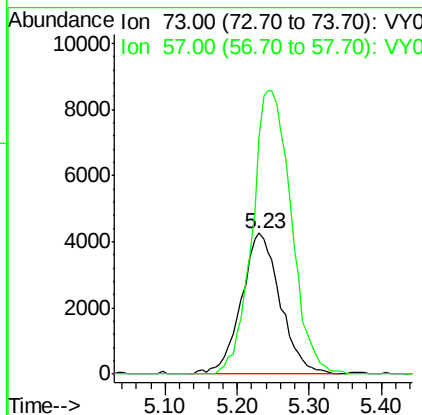
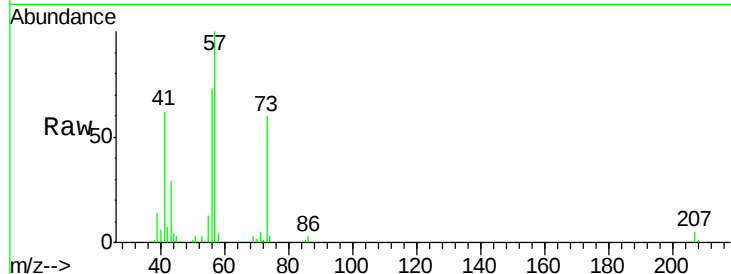


#19

Methyl tert-butyl Ether
 Concen: 2.583 ug/l
 RT: 5.23 min Scan# 573
 Delta R.T. -0.00 min
 Lab File: VY002958.D
 Acq: 19 Jun 2020 23:22

Instrument :
 MSVOA_Y
 ClientSampleId :
 TW-11

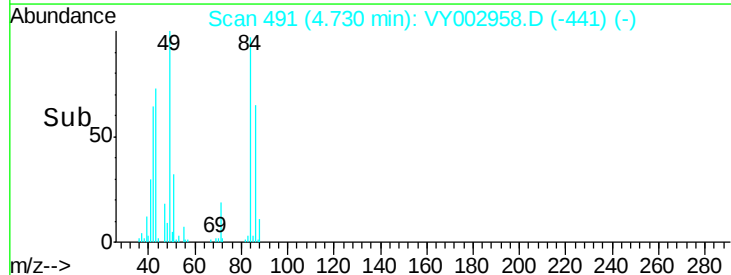
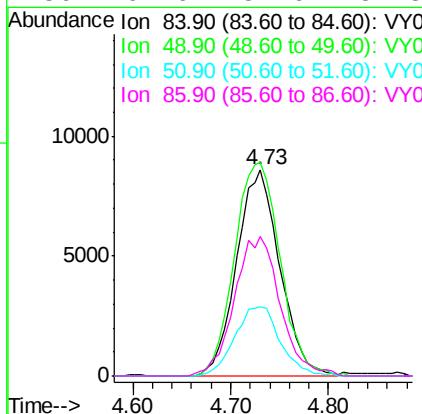
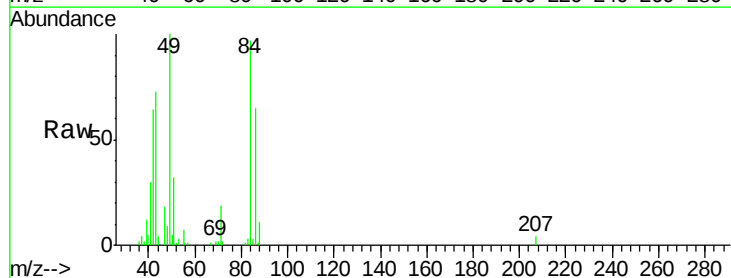
Tgt Ion: 73 Resp: 15947
 Ion Ratio Lower Upper
 73 100
 57 167.6 16.4 24.6#

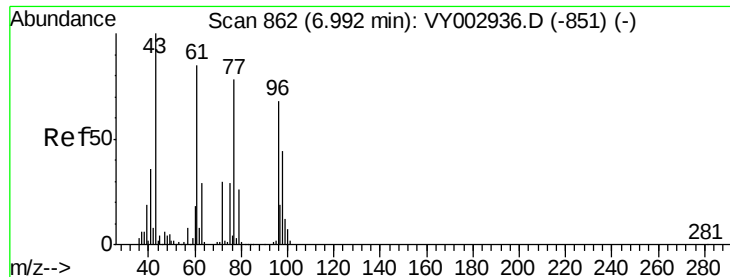


#20

Methylene Chloride
 Concen: 3.646 ug/l
 RT: 4.73 min Scan# 491
 Delta R.T. 0.01 min
 Lab File: VY002958.D
 Acq: 19 Jun 2020 23:22

Tgt Ion: 84 Resp: 26404
 Ion Ratio Lower Upper
 84 100
 49 103.3 90.0 135.0
 51 33.5 27.9 41.9
 86 67.6 54.6 81.8





#25

2-Butanone

Concen: 7.521 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.00 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

Instrument :

MSVOA_Y

ClientSampleId :

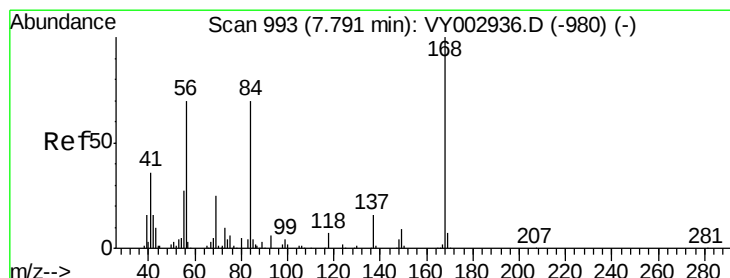
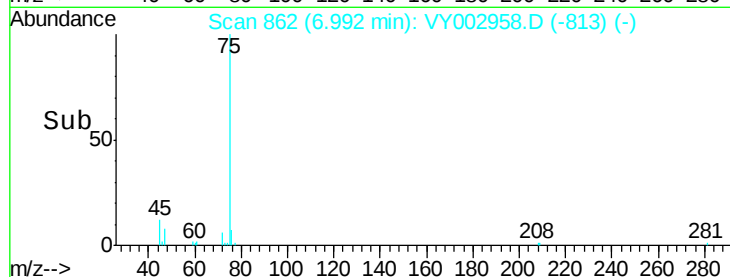
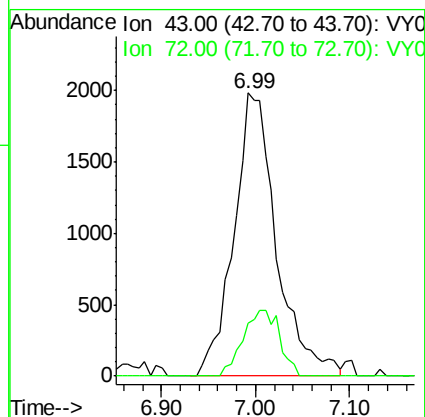
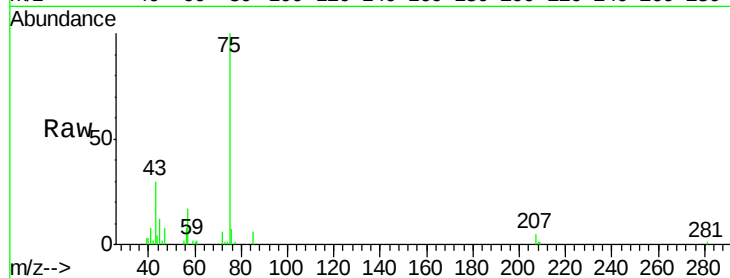
TW-11

Tgt Ion: 43 Resp: 6271

Ion Ratio Lower Upper

43 100

72 18.5 24.2 36.4#



#31

Cyclohexane

Concen: 1.615 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

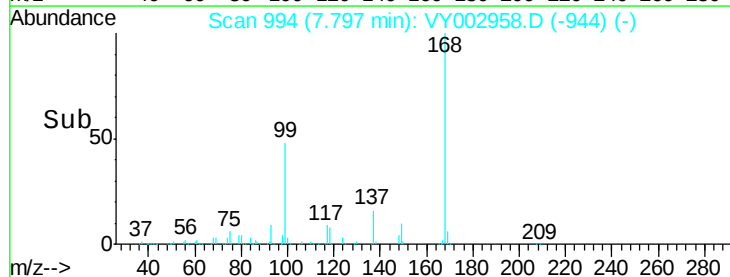
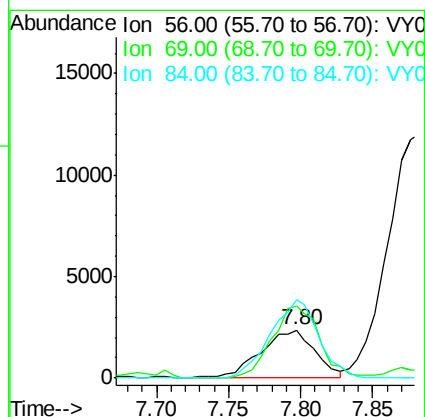
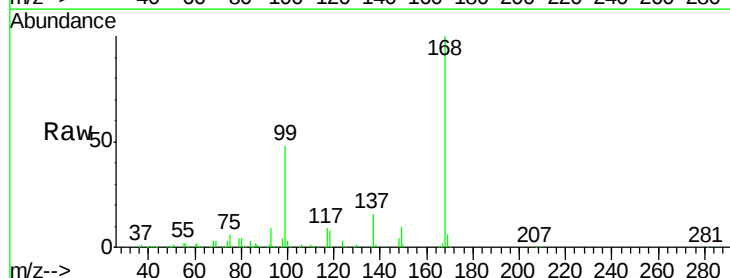
Tgt Ion: 56 Resp: 6230

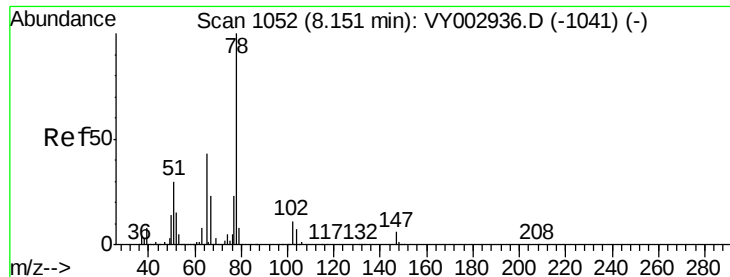
Ion Ratio Lower Upper

56 100

69 149.3 28.9 43.3#

84 162.2 80.1 120.1#

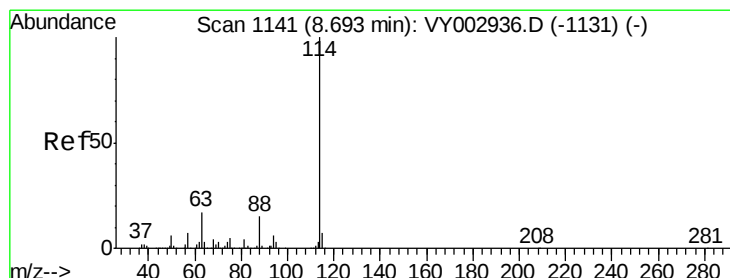
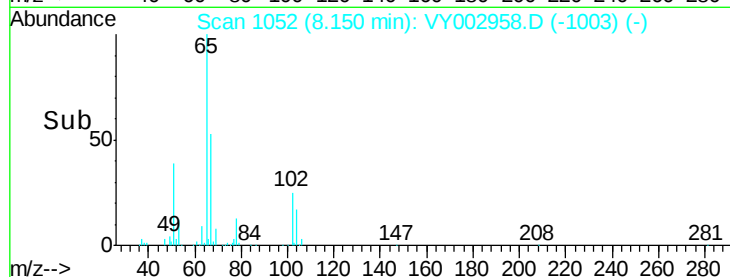
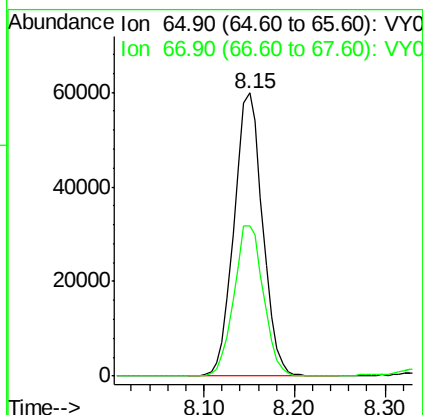
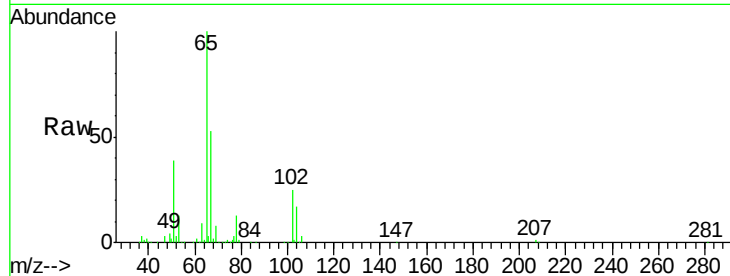




#33
 1,2-Dichloroethane-d4
 Concen: 58.141 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. -0.00 min
 Lab File: VY002958.D
 Acq: 19 Jun 2020 23:22

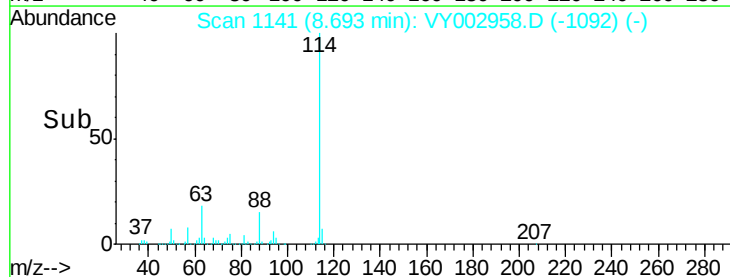
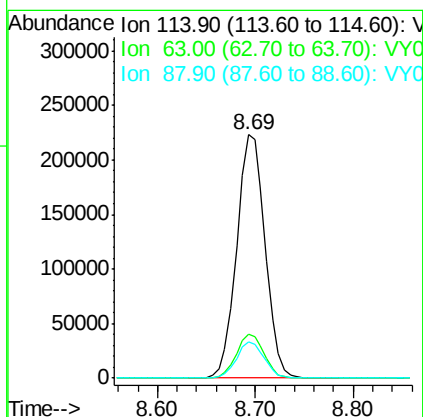
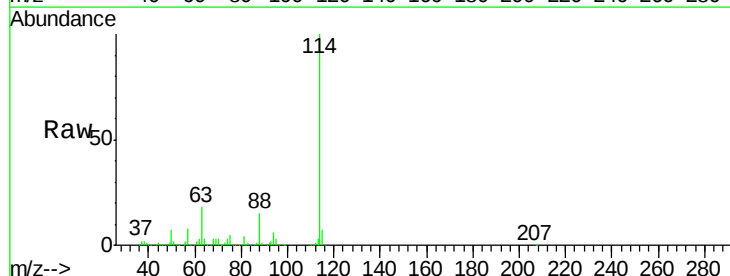
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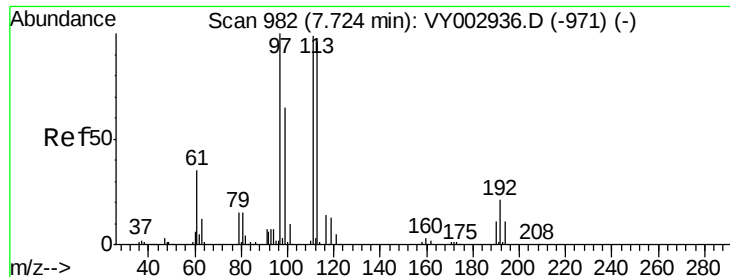
Tgt Ion: 65 Resp: 130628
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. -0.00 min
 Lab File: VY002958.D
 Acq: 19 Jun 2020 23:22

Tgt Ion: 114 Resp: 447170
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 34.6
 88 14.6 0.0 29.2

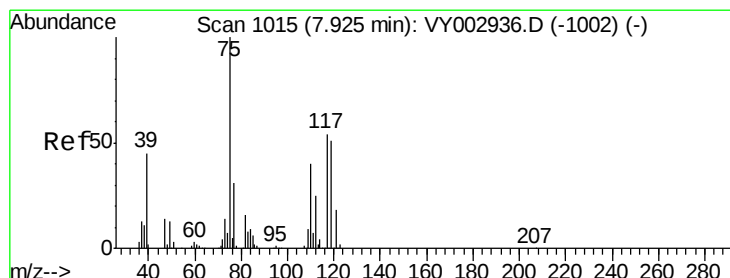
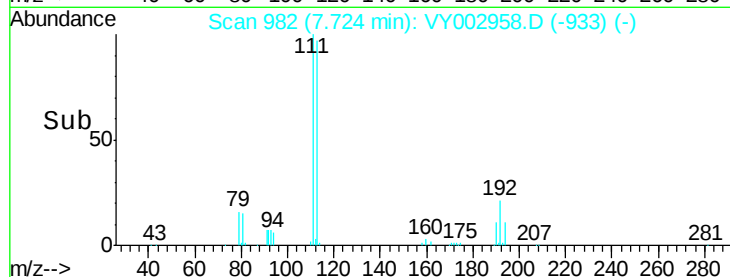
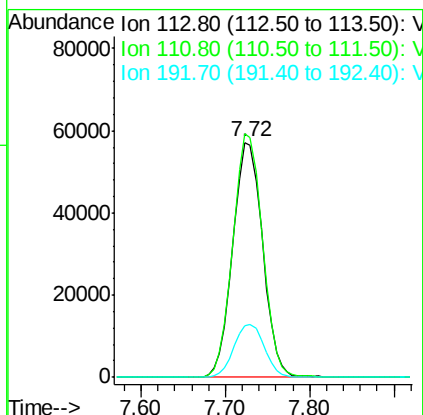
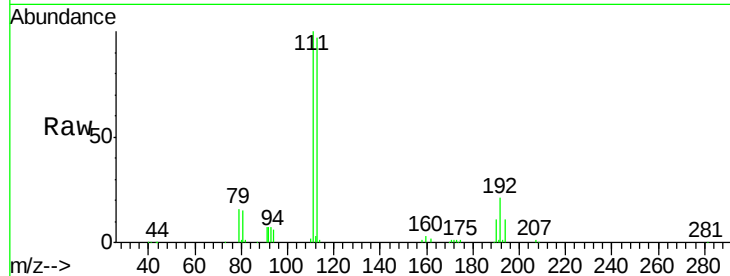




#35
 Dibromofluoromethane
 Concen: 54.159 ug/l
 RT: 7.72 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VY002958.D
 Acq: 19 Jun 2020 23:22

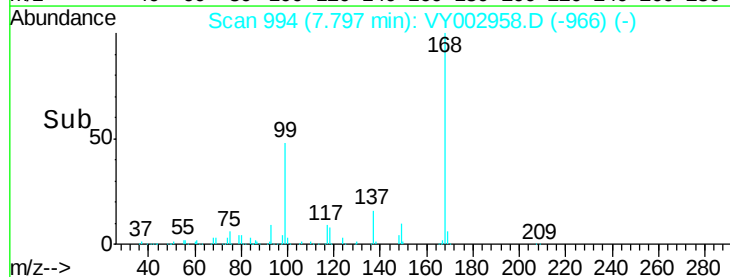
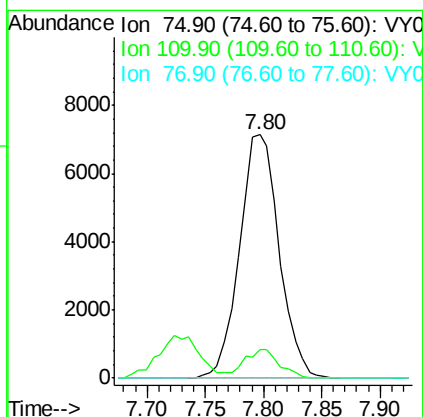
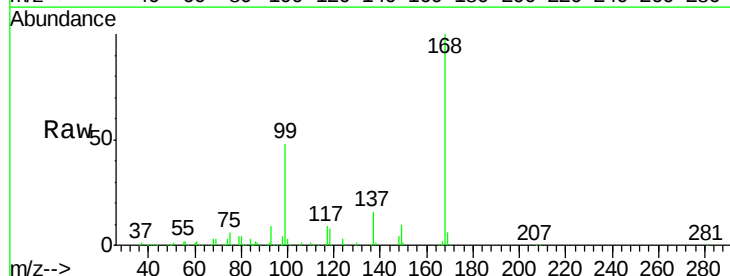
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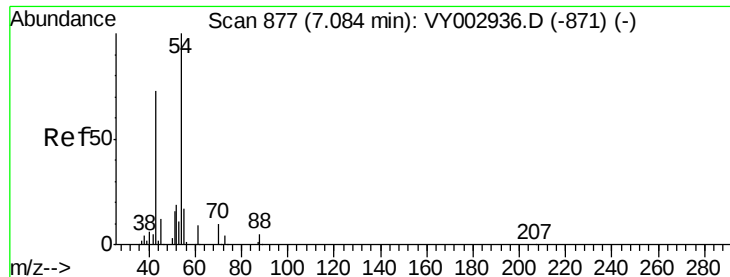
Tgt Ion:113 Resp: 137033
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.5 122.3
 192 23.0 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 4.643 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY002958.D
 Acq: 19 Jun 2020 23:22

Tgt Ion: 75 Resp: 16860
 Ion Ratio Lower Upper
 75 100
 110 10.1 19.7 59.0#
 77 0.0 25.0 37.4#

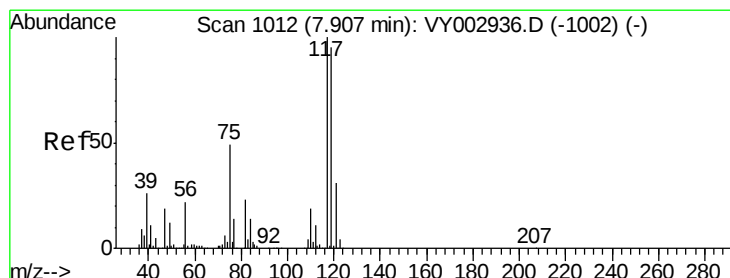
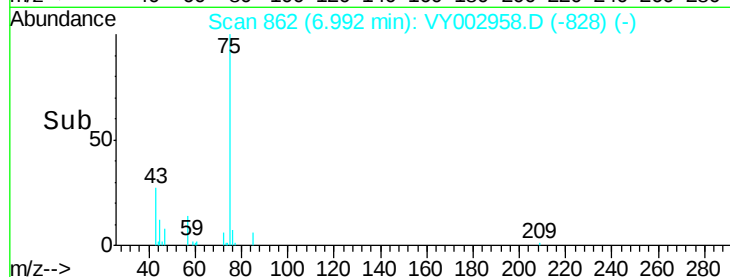
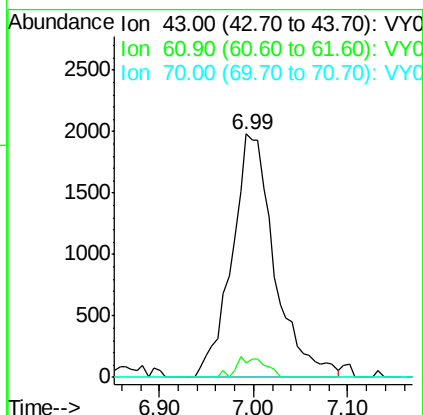
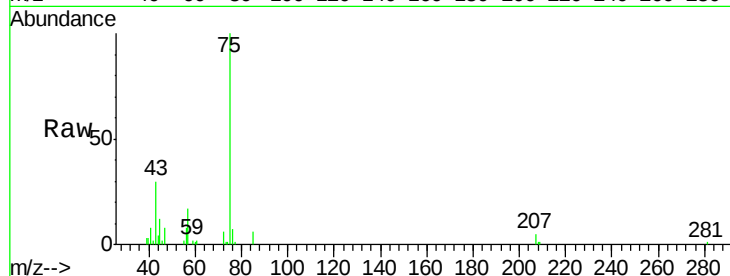




#37
Ethyl Acetate
Concen: 3.110 ug/l
RT: 6.99 min Scan# 862
Delta R.T. -0.09 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

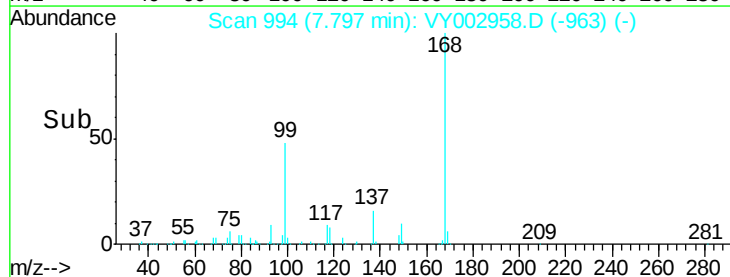
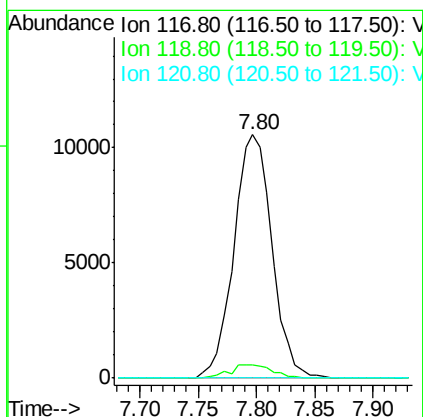
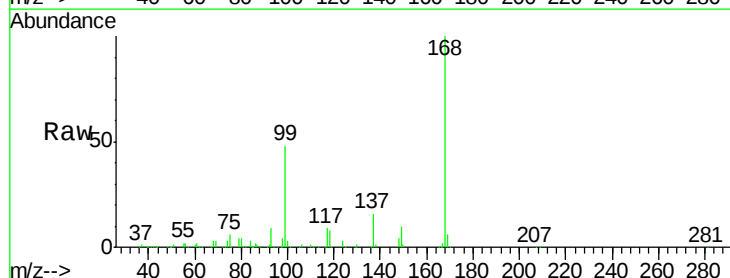
Instrument :
MSVOA_Y
ClientSampleId :
TW-11

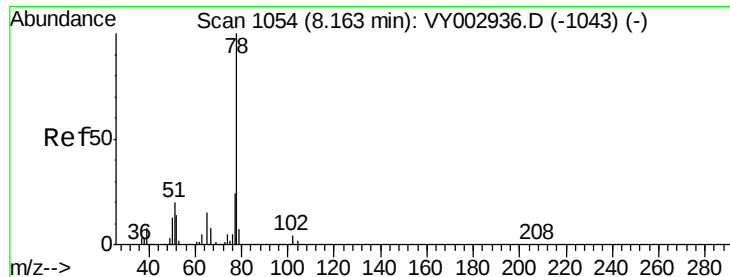
Tgt Ion: 43 Resp: 6271
Ion Ratio Lower Upper
43 100
61 5.6 12.3 18.5#
70 0.0 9.7 14.5#



#38
Carbon Tetrachloride
Concen: 6.014 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.11 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

Tgt Ion: 117 Resp: 24069
Ion Ratio Lower Upper
117 100
119 5.2 76.1 114.1#
121 0.0 24.8 37.2#





#40

Benzene

Concen: 3.263 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

Instrument :

MSVOA_Y

ClientSampleId :

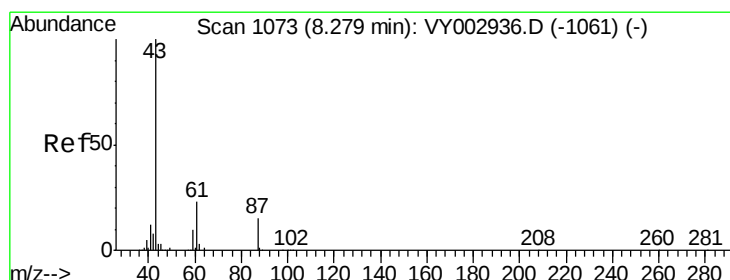
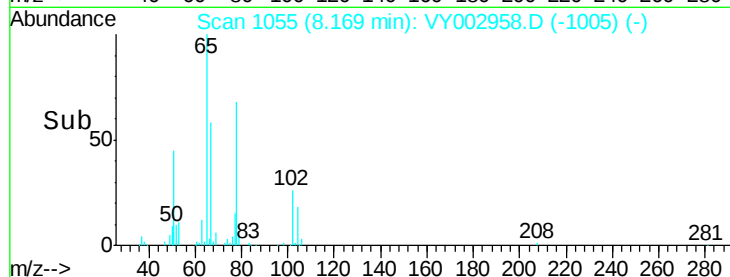
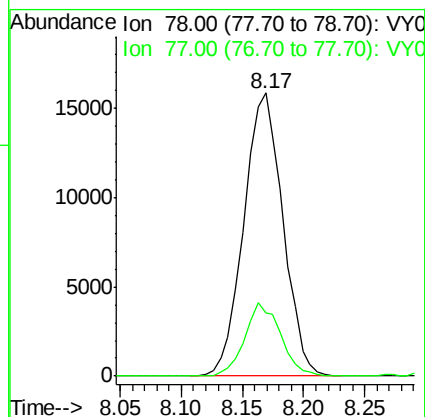
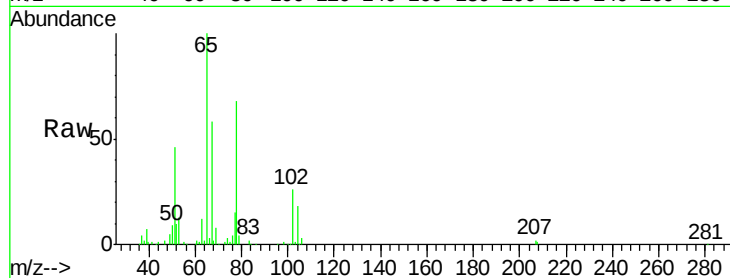
TW-11

Tgt Ion: 78 Resp: 35275

Ion Ratio Lower Upper

78 100

77 22.4 19.3 28.9



#43

Isopropyl Acetate

Concen: 1.503 ug/l

RT: 8.27 min Scan# 1072

Delta R.T. -0.01 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

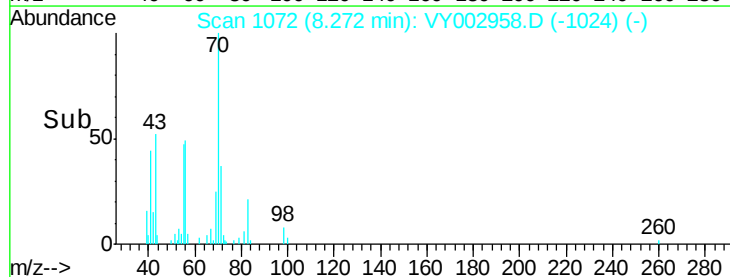
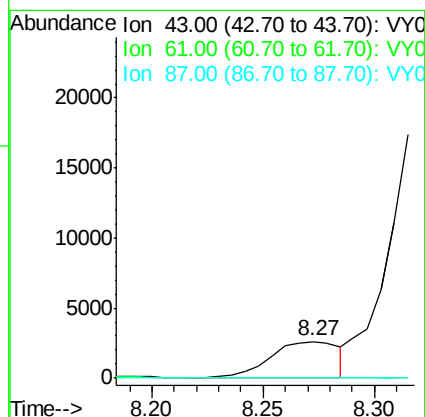
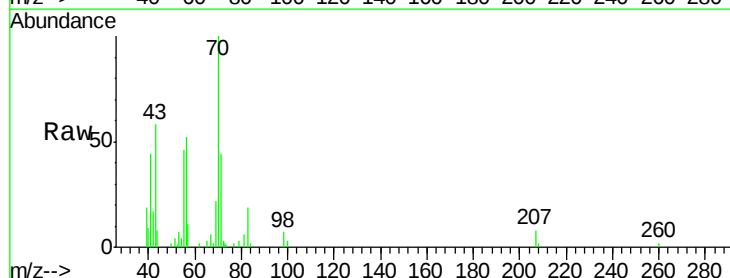
Tgt Ion: 43 Resp: 5644

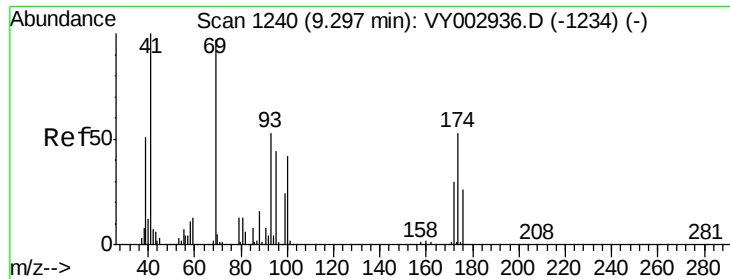
Ion Ratio Lower Upper

43 100

61 0.0 25.0 37.4#

87 0.0 12.6 18.8#

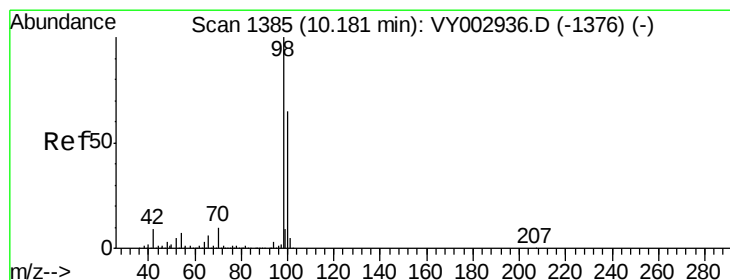
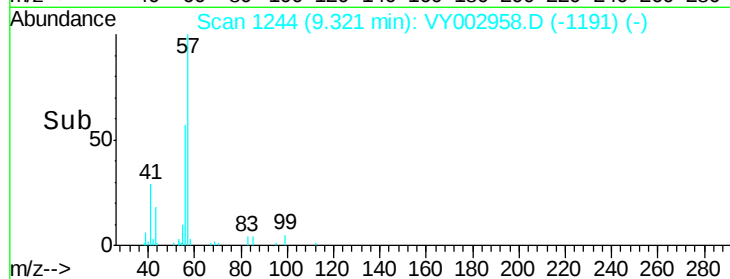
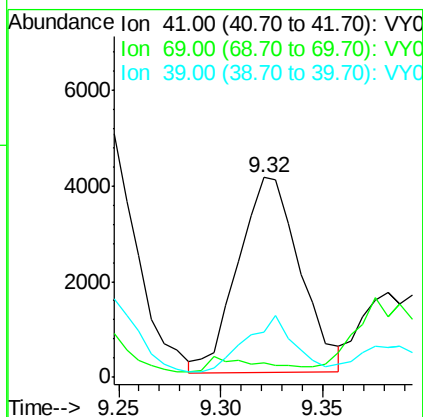
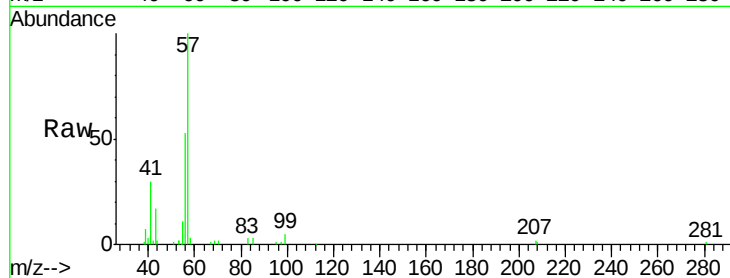




#48
Methyl methacrylate
Concen: 5.144 ug/l
RT: 9.32 min Scan# 1244
Delta R.T. 0.02 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

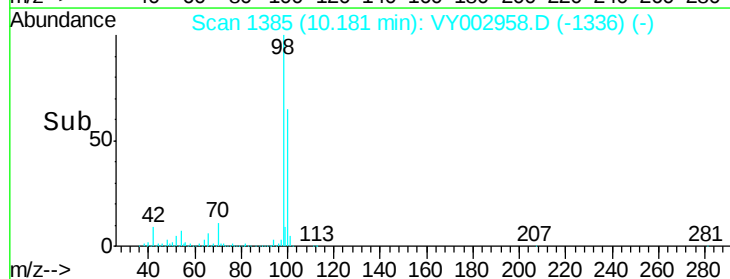
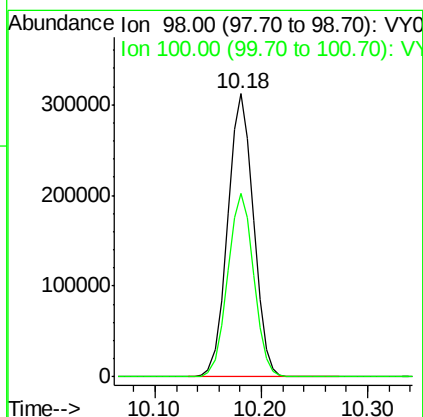
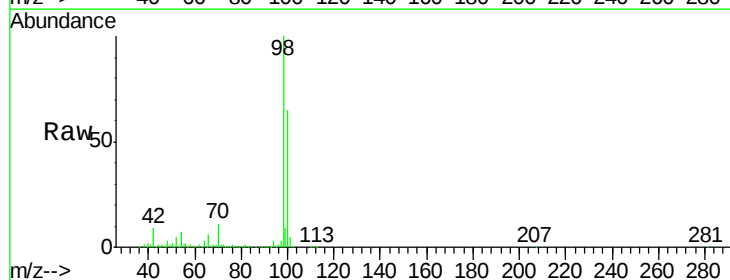
Instrument :
MSVOA_Y
ClientSampleId :
TW-11

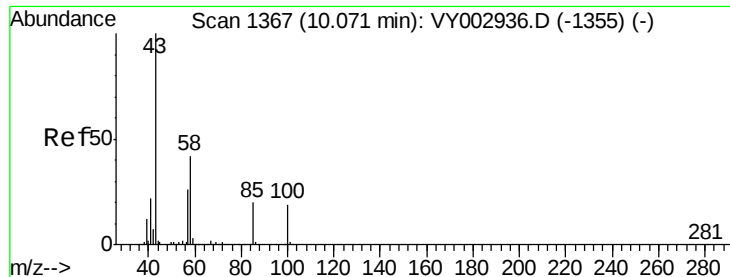
Tgt Ion: 41 Resp: 8668
Ion Ratio Lower Upper
41 100
69 0.0 79.4 119.0#
39 25.1 41.1 61.7#



#50
Toluene-d8
Concen: 53.270 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

Tgt Ion: 98 Resp: 531441
Ion Ratio Lower Upper
98 100
100 65.1 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 6.935 ug/l

RT: 10.11 min Scan# 1374

Delta R.T. 0.04 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

Instrument :

MSVOA_Y

ClientSampleId :

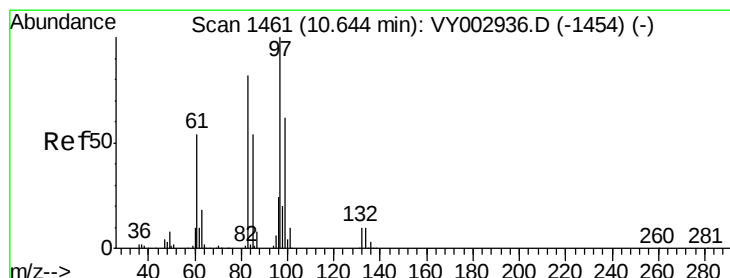
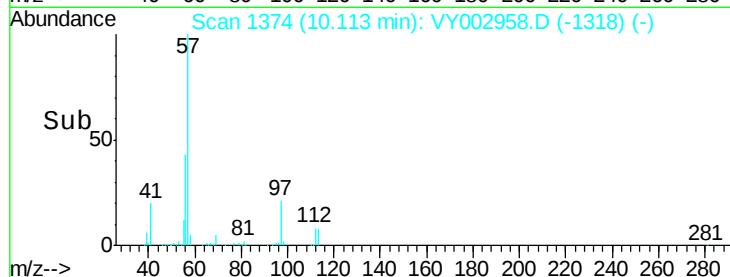
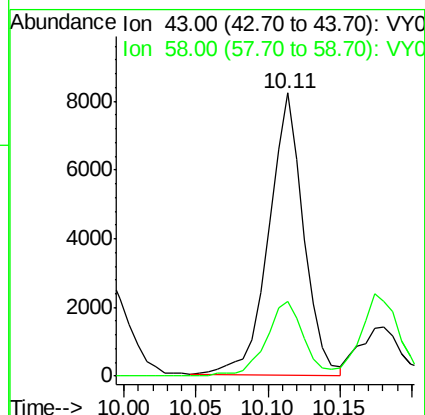
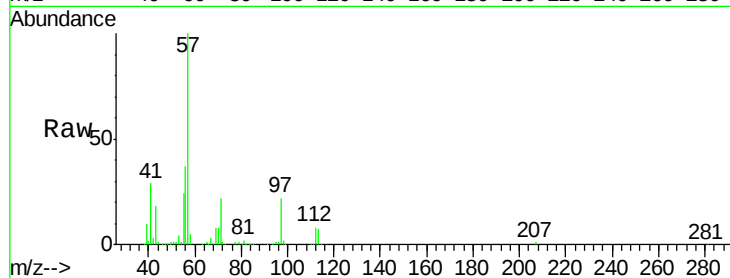
TW-11

Tgt Ion: 43 Resp: 13801

Ion Ratio Lower Upper

43 100

58 28.5 33.9 50.9#



#55

1,1,2-Trichloroethane

Concen: 2.843 ug/l

RT: 10.62 min Scan# 1457

Delta R.T. -0.02 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

Tgt Ion: 97 Resp: 6581

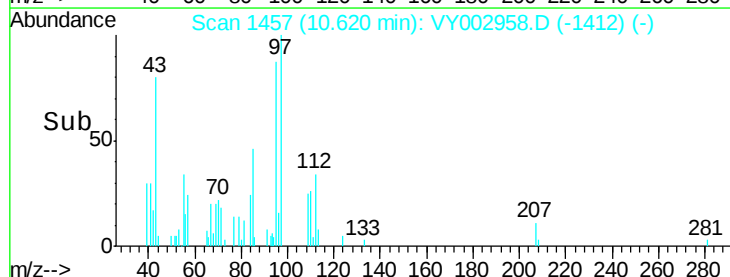
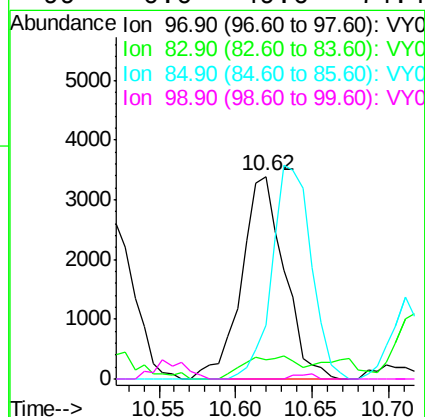
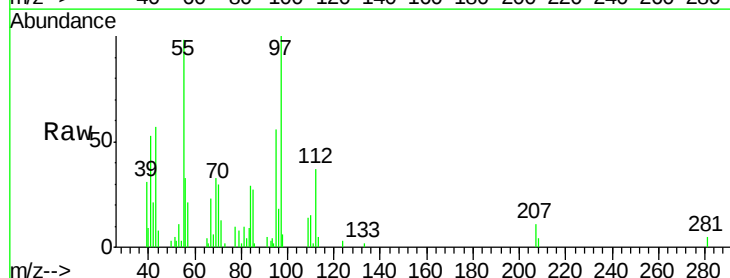
Ion Ratio Lower Upper

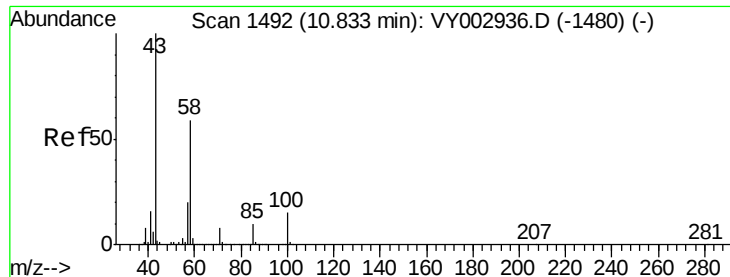
97 100

83 9.4 65.9 98.9#

85 26.7 43.1 64.7#

99 0.0 49.6 74.4#

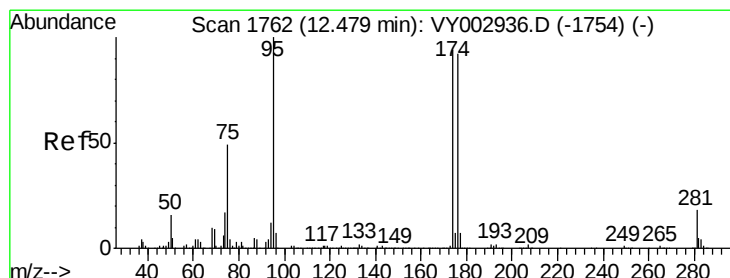
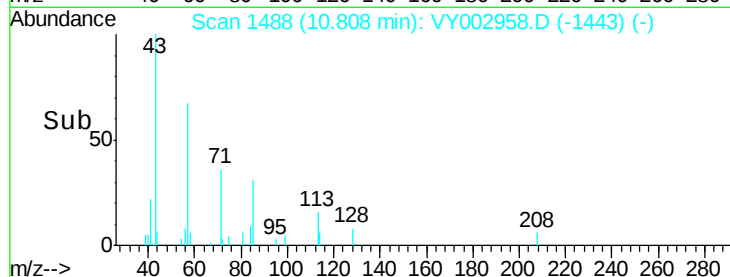
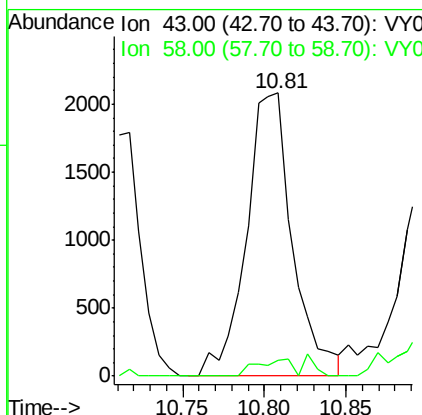
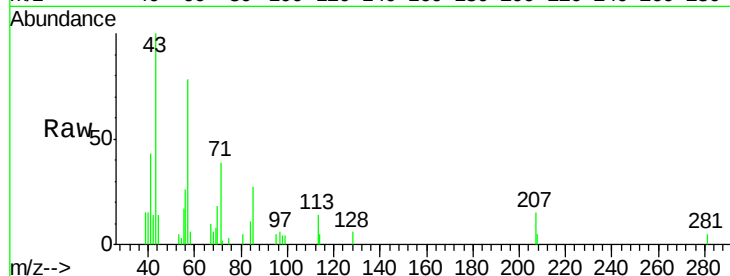




#59
2-Hexanone
Concen: 2.937 ug/l
RT: 10.81 min Scan# 1488
Delta R.T. -0.02 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

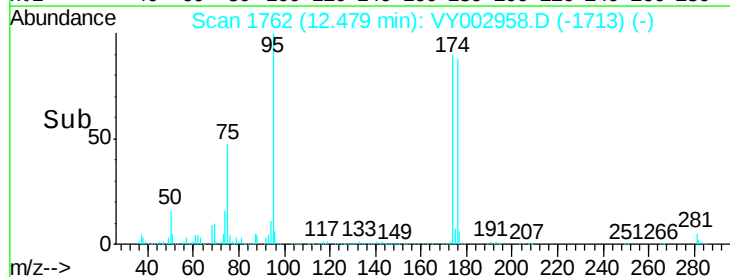
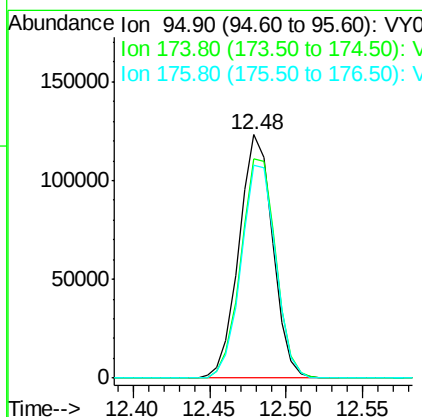
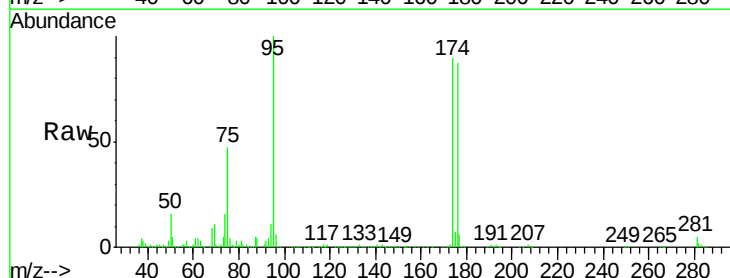
Instrument :
MSVOA_Y
ClientSampleId :
TW-11

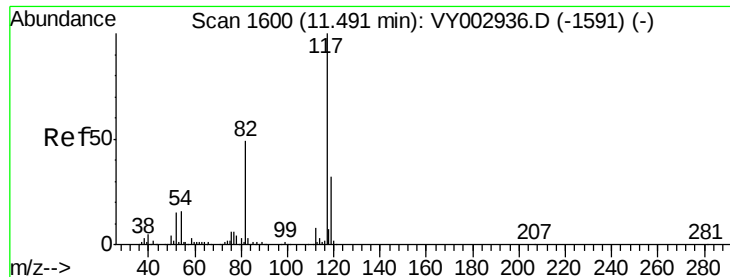
Tgt Ion: 43 Resp: 4109
Ion Ratio Lower Upper
43 100
58 4.4 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 54.433 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

Tgt Ion: 95 Resp: 188369
Ion Ratio Lower Upper
95 100
174 92.9 0.0 191.2
176 89.8 0.0 186.0

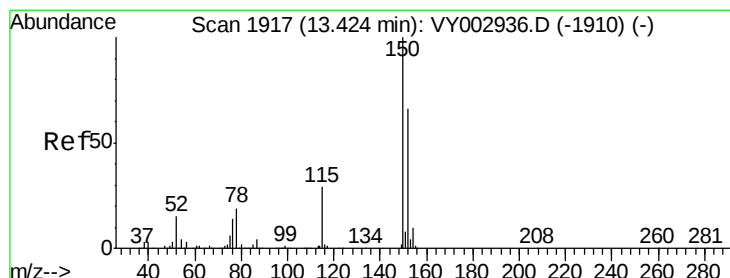
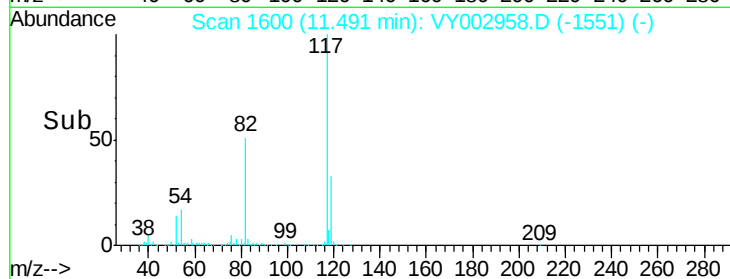
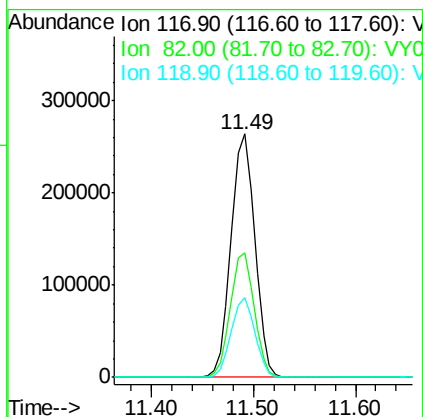
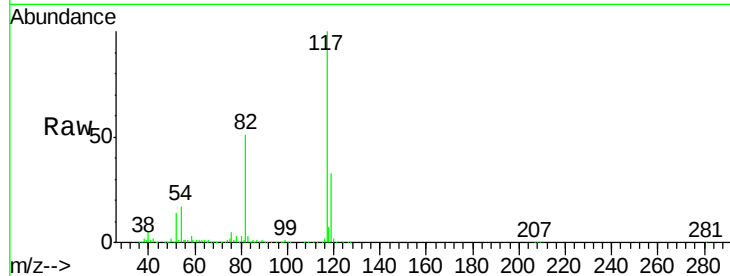




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

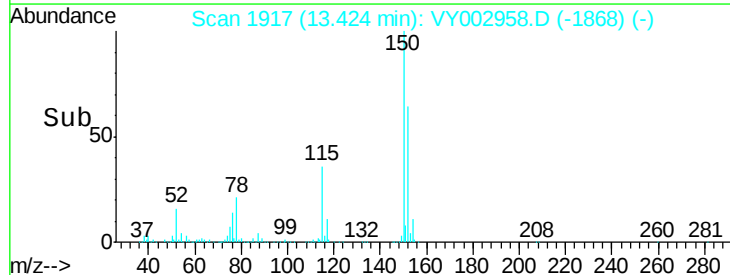
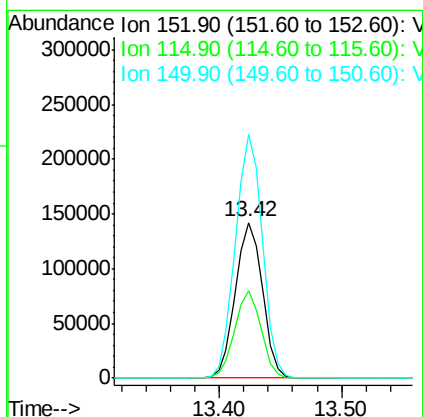
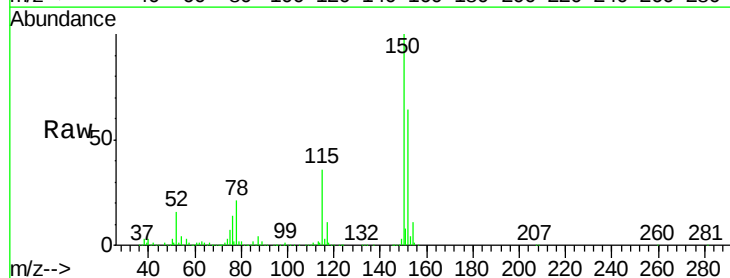
Instrument :
MSVOA_Y
ClientSampleId :
TW-11

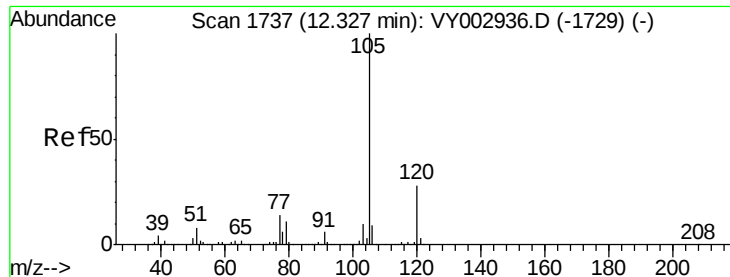
Tgt Ion:117 Resp: 425031
Ion Ratio Lower Upper
117 100
82 50.8 39.4 59.0
119 32.9 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY002958.D
Acq: 19 Jun 2020 23:22

Tgt Ion:152 Resp: 216802
Ion Ratio Lower Upper
152 100
115 54.7 26.9 80.6
150 156.2 0.0 341.8





#73

Isopropylbenzene

Concen: 5.177 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

Instrument :

MSVOA_Y

ClientSampleId :

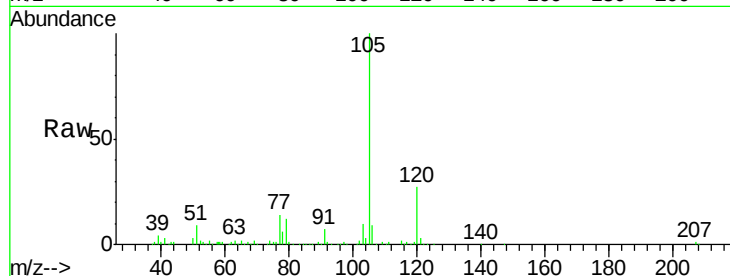
TW-11

Tgt Ion:105 Resp: 68782

Ion Ratio Lower Upper

105 100

120 27.4 14.0 41.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.33

50000

40000

30000

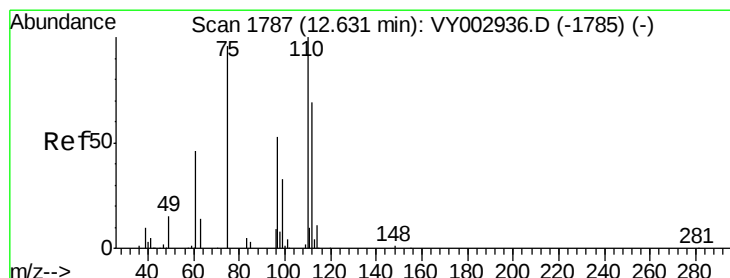
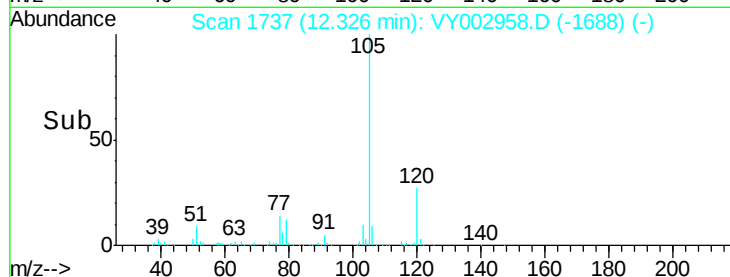
20000

10000

0

Time-->

12.30 12.40



#76

1,2,3-Trichloropropane

Concen: 46.799 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY002958.D

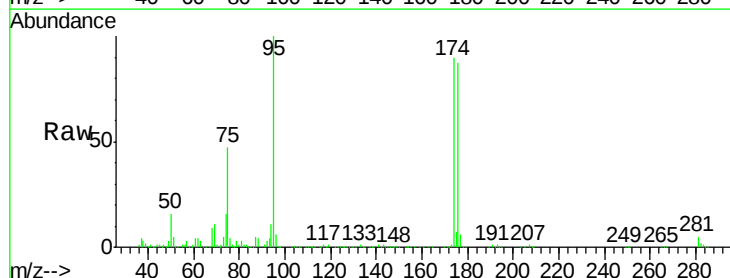
Acq: 19 Jun 2020 23:22

Tgt Ion: 75 Resp: 88363

Ion Ratio Lower Upper

75 100

77 1.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

12.48

60000

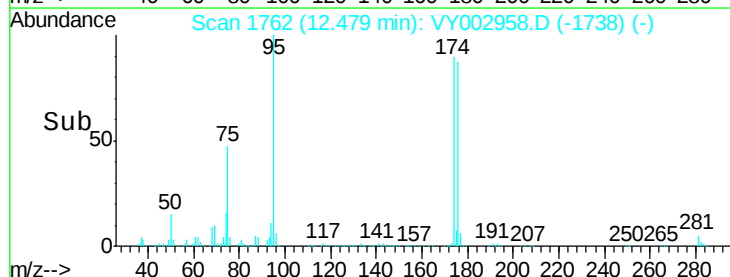
40000

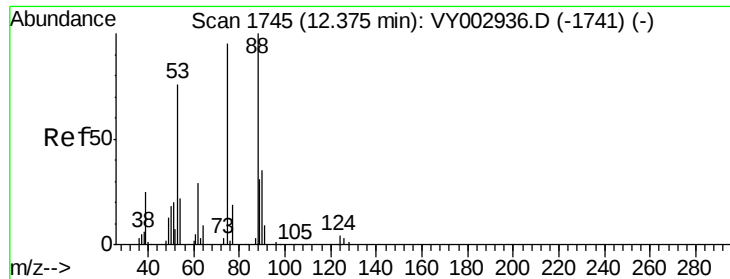
20000

0

Time-->

12.40 12.45 12.50 12.55





#81

trans-1,4-Dichloro-2-butene

Concen: 89.349 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002958.D

Acq: 19 Jun 2020 23:22

Instrument :

MSVOA_Y

ClientSampleId :

TW-11

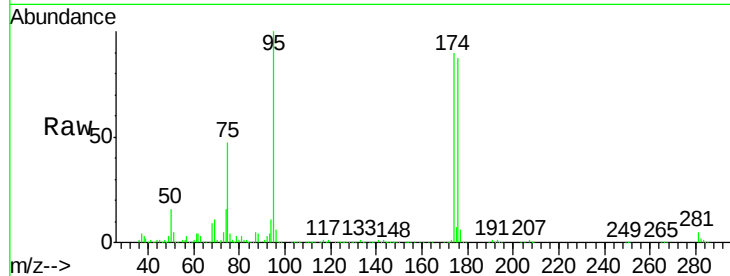
Tgt Ion: 75 Resp: 88363

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

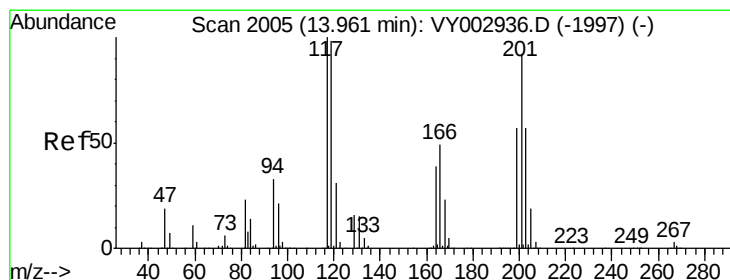
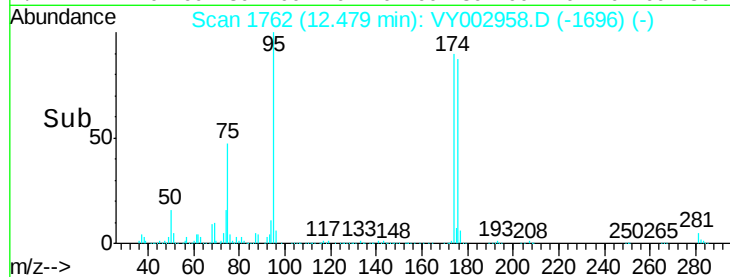
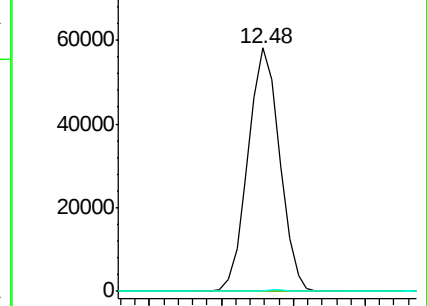
89 0.2 38.4 57.6#



Abundance Ion 74.90 (74.60 to 75.60): VY002936.D (-1741) (-)

Ion 53.00 (52.70 to 53.70): VY002936.D (-1741) (-)

Ion 88.90 (88.60 to 89.60): VY002936.D (-1741) (-)



#90

Hexachloroethane

Concen: 1.826 ug/l

RT: 14.03 min Scan# 2017

Delta R.T. 0.07 min

Lab File: VY002958.D

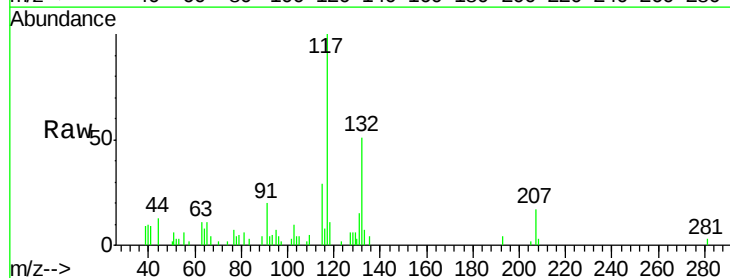
Acq: 19 Jun 2020 23:22

Tgt Ion: 117 Resp: 4305

Ion Ratio Lower Upper

117 100

201 0.0 45.1 135.5#



Abundance Ion 116.80 (116.50 to 117.50): VY002936.D (-1997) (-)

Ion 200.70 (200.40 to 201.40): VY002936.D (-1997) (-)

