

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061820\
 Data File : VX016859.D
 Acq On : 18 Jun 2020 23:55
 Operator : JC/SP
 Sample : L3020-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-22

Quant Time: Jun 19 03:04:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 18 15:20:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	238990	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	418631	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	382391	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	235861	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	139472	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
35) Dibromofluoromethane	5.46	113	130742	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
50) Toluene-d8	8.70	98	531501	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
62) 4-Bromofluorobenzene	11.12	95	194030	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	

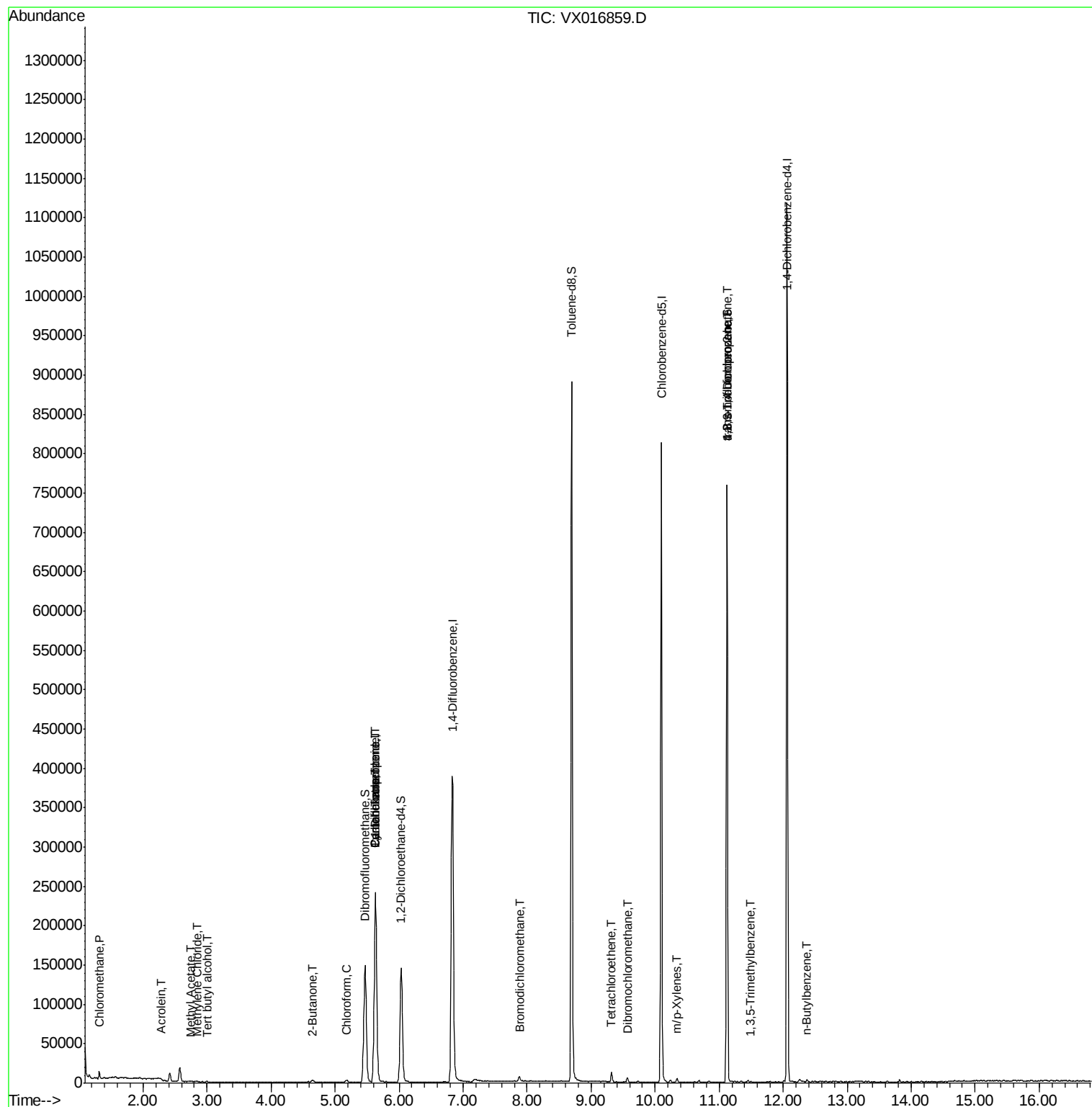
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	91	Below Cal	#	43
3) Chloromethane	1.31	50	5145	1.730	ug/l	98
5) Bromomethane	1.64	94	439	Below Cal		85
11) Tert butyl alcohol	3.00	59	745	1.533	ug/l #	72
13) Acrolein	2.27	56	321	1.090	ug/l #	62
16) Acetone	2.42	43	11010	Below Cal		91
18) Methyl Acetate	2.75	43	1187	0.447	ug/l #	86
20) Methylene Chloride	2.84	84	613	0.245	ug/l #	60
25) 2-Butanone	4.64	43	501	0.349	ug/l #	45
30) Chloroform	5.18	83	3875	0.908	ug/l	89
31) Cyclohexane	5.64	56	4124	1.160	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	15619	4.041	ug/l #	49
38) Carbon Tetrachloride	5.63	117	21833	5.034	ug/l #	16
47) Bromodichloromethane	7.88	83	3681	0.875	ug/l	91
59) 2-Hexanone	9.47	43	260	Below Cal	#	21
60) Dibromochloromethane	9.57	129	2441	0.700	ug/l	95
64) Tetrachloroethene	9.32	164	2525	0.713	ug/l	89
68) m/p-Xylenes	10.34	106	1256	0.247	ug/l	90
73) Isopropylbenzene	10.99	105	303	Below Cal	#	49
76) 1,2,3-Trichloropropane	11.12	75	93525	21.366	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	374	0.234	ug/l	87
81) trans-1,4-Dichloro-2-buten	11.12	75	93525	53.168	ug/l #	14
89) n-Butylbenzene	12.37	91	773	3.070	ug/l	91

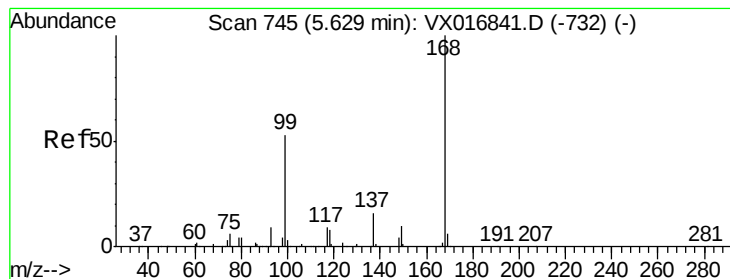
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 18 15:20:47 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

Instrument :

MSVOA_X

ClientSampleId :

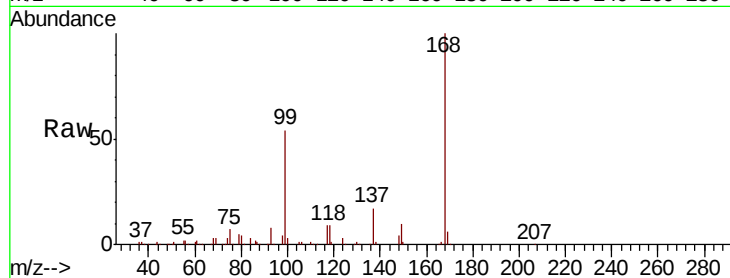
MW-22

Tot Ion:168 Resp: 238990

Ion Ratio Lower Upper

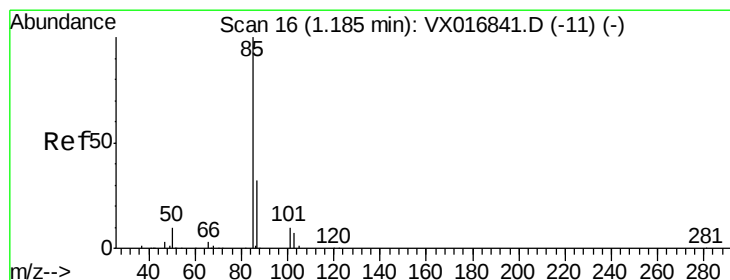
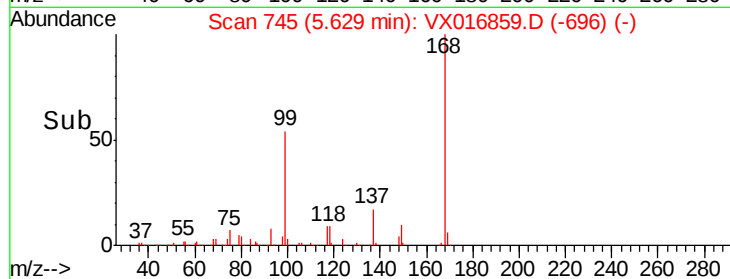
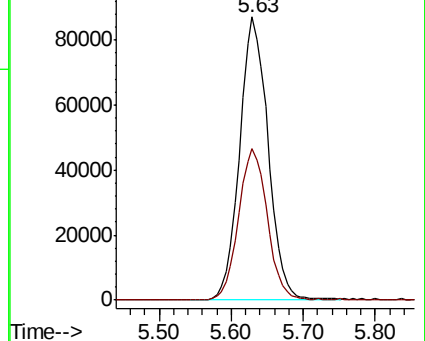
168 100

99 53.7 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX016859.D

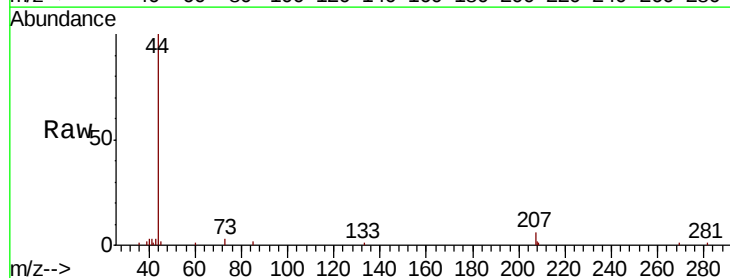
Acq: 18 Jun 2020 23:55

Tgt Ion: 85 Resp: 91

Ion Ratio Lower Upper

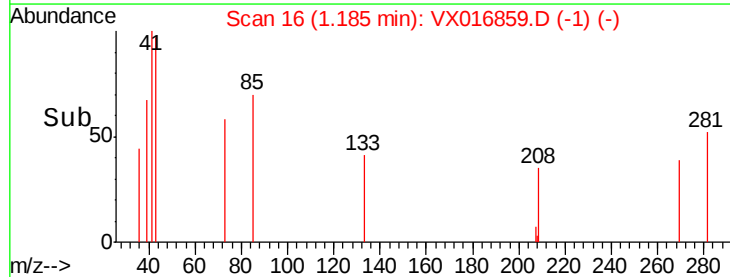
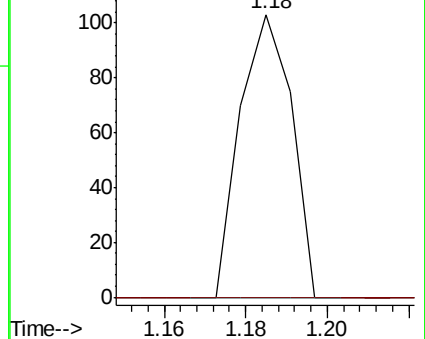
85 100

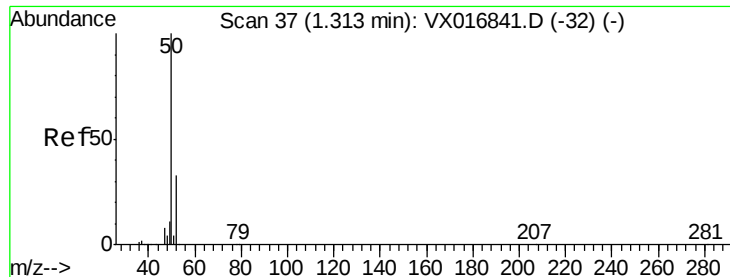
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 1.730 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

Instrument :

MSVOA_X

ClientSampled :

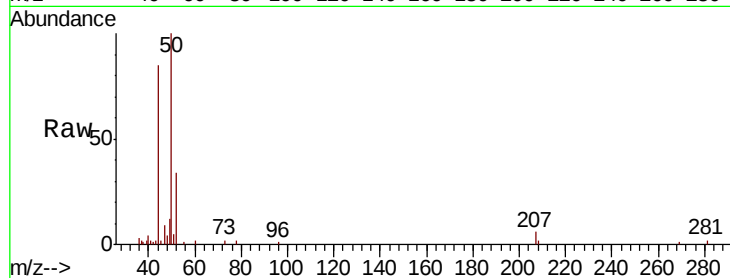
MW-22

Tot Ion: 50 Resp: 5145

Ion Ratio Lower Upper

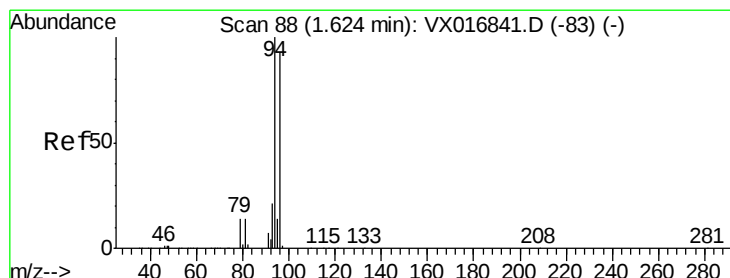
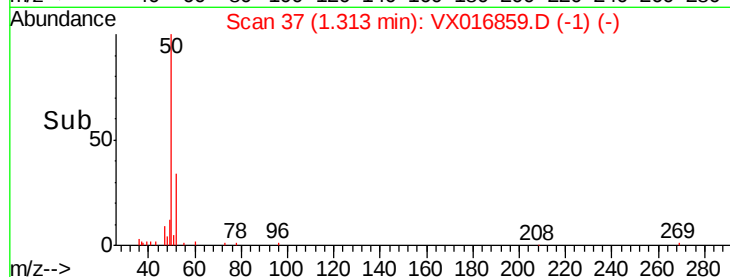
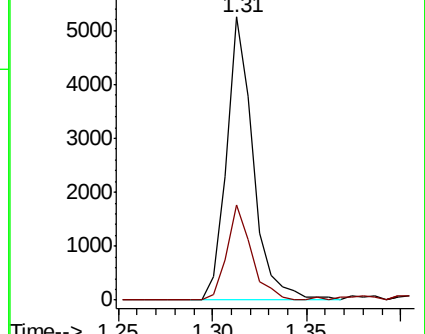
50 100

52 33.7 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016859.D

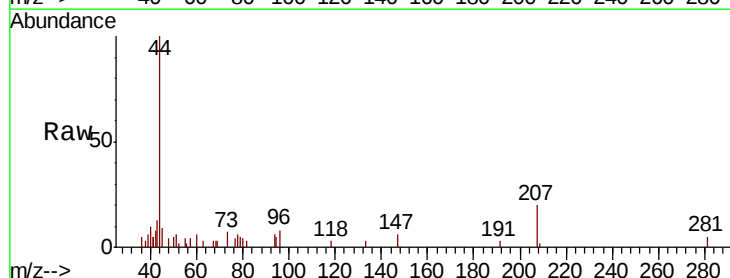
Acq: 18 Jun 2020 23:55

Tgt Ion: 94 Resp: 439

Ion Ratio Lower Upper

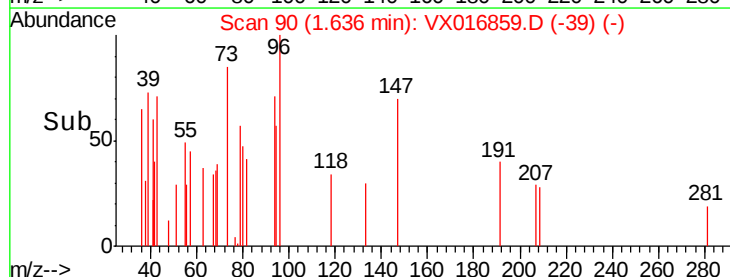
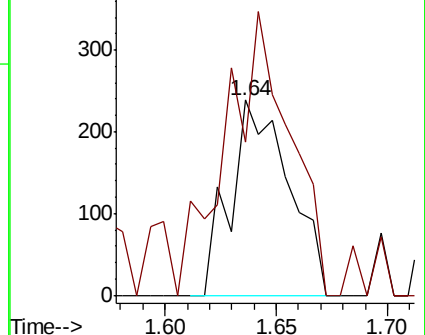
94 100

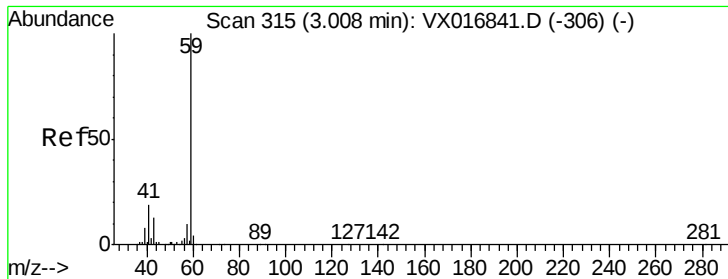
96 78.2 74.4 111.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



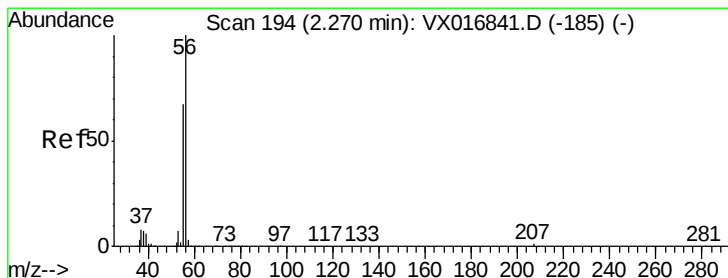
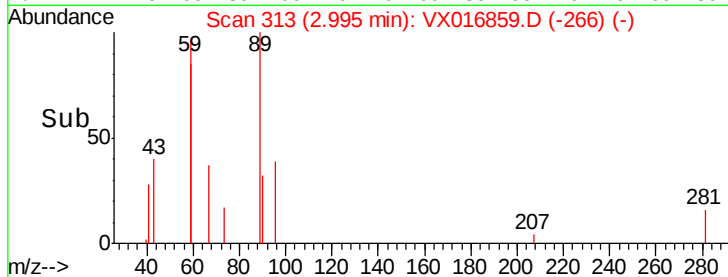
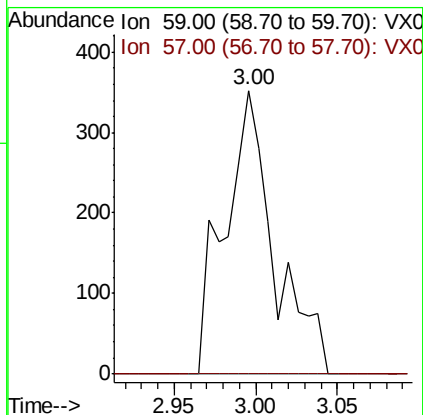
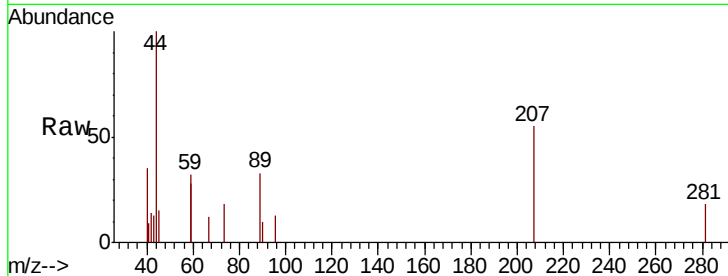


#11

Tert butyl alcohol
 Concen: 1.533 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VX016859.D
 Acq: 18 Jun 2020 23:55

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-22

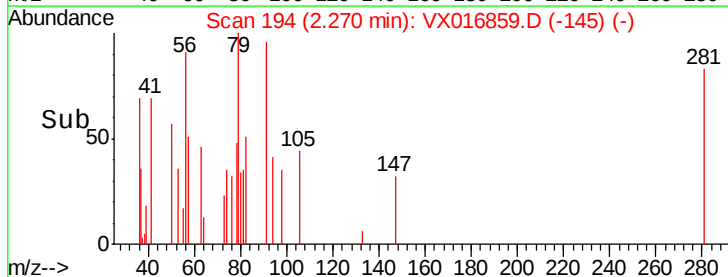
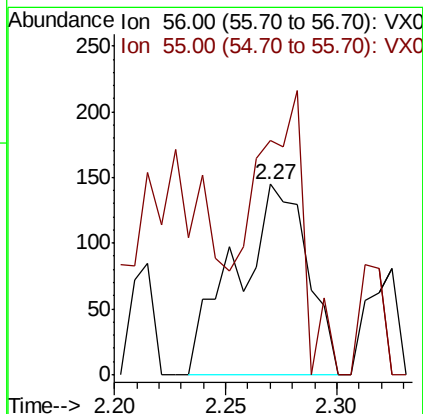
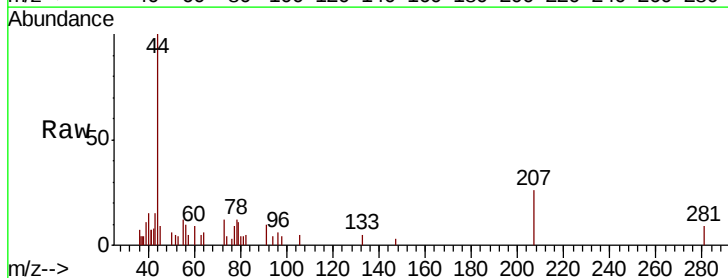
Tot Ion: 59 Resp: 745
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

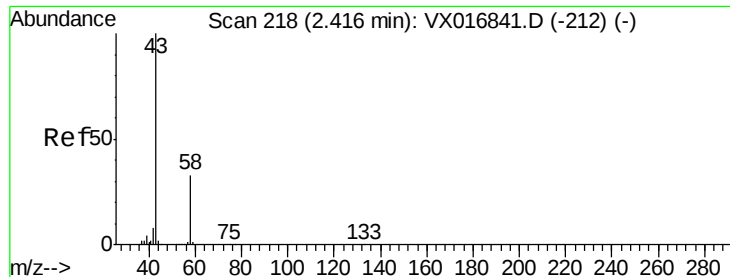


#13

Acrolein
 Concen: 1.090 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. 0.00 min
 Lab File: VX016859.D
 Acq: 18 Jun 2020 23:55

Tgt Ion: 56 Resp: 321
 Ion Ratio Lower Upper
 56 100
 55 100.9 55.7 83.5#

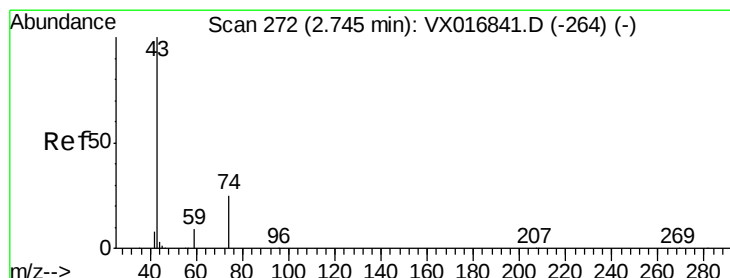
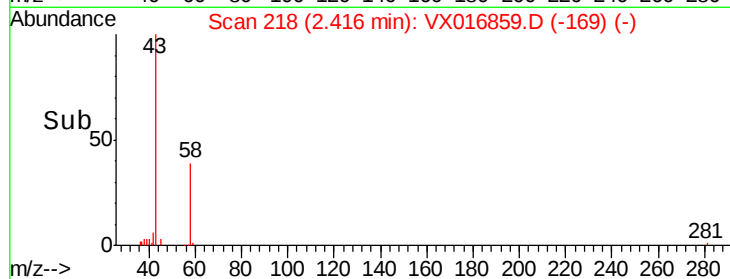
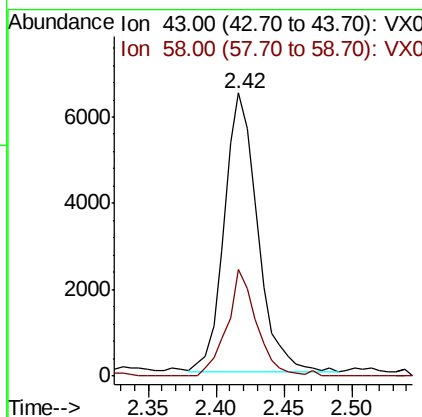
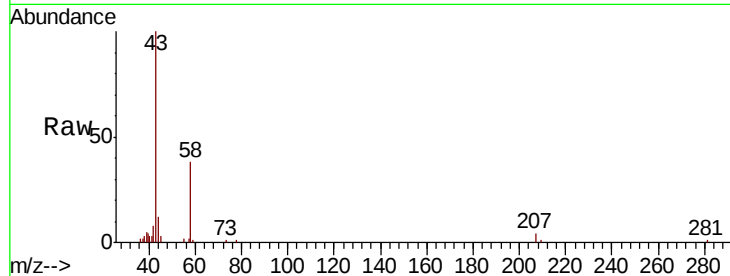




#16
Acetone
Concen: Below Cal
RT: 2.42 min Scan# 218
Delta R.T. 0.00 min
Lab File: VX016859.D
Acq: 18 Jun 2020 23:55

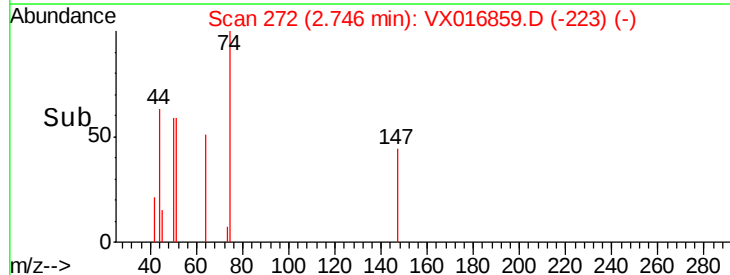
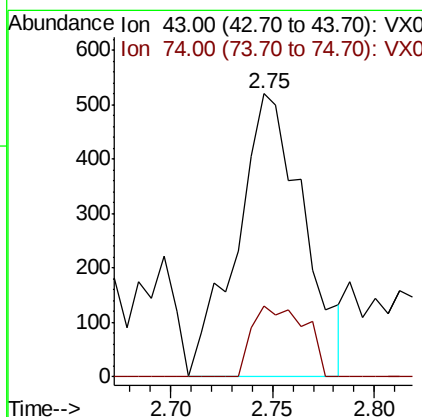
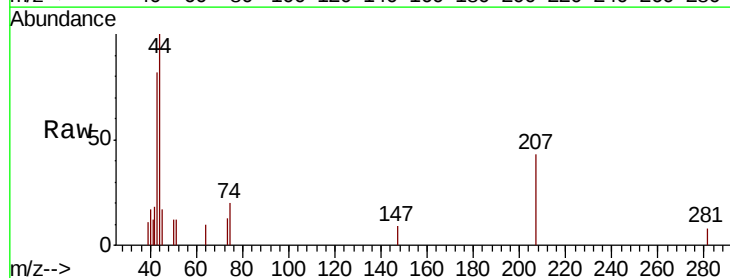
Instrument :
MSVOA_X
ClientSampleId :
MW-22

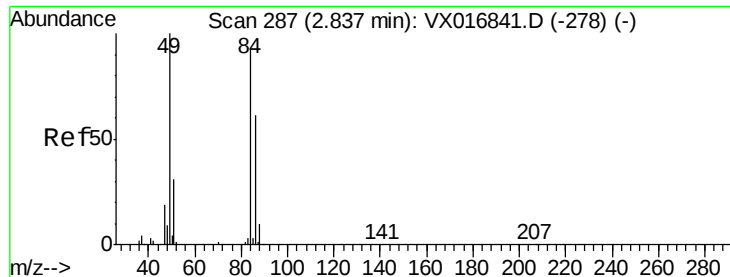
Tot Ion: 43 Resp: 11010
Ion Ratio Lower Upper
43 100
58 38.3 26.6 39.8



#18
Methyl Acetate
Concen: 0.447 ug/l
RT: 2.75 min Scan# 272
Delta R.T. 0.00 min
Lab File: VX016859.D
Acq: 18 Jun 2020 23:55

Tgt Ion: 43 Resp: 1187
Ion Ratio Lower Upper
43 100
74 20.0 21.8 32.8#





#20

Methvlene Chloride

Concen: 0.245 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

Instrument :

MSVOA_X

ClientSampled :

MW-22

Tot Ion: 84 Resp: 613

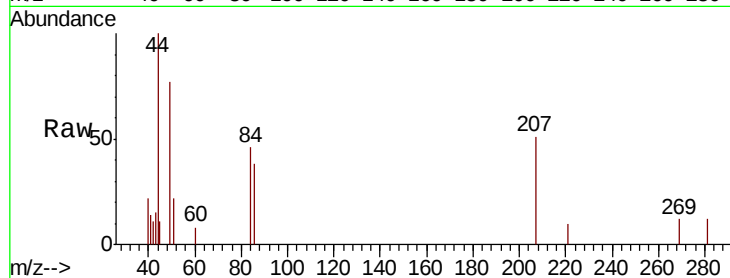
Ion Ratio Lower Upper

84 100

49 167.6 86.6 129.8#

51 47.3 27.1 40.7#

86 82.8 53.1 79.7#

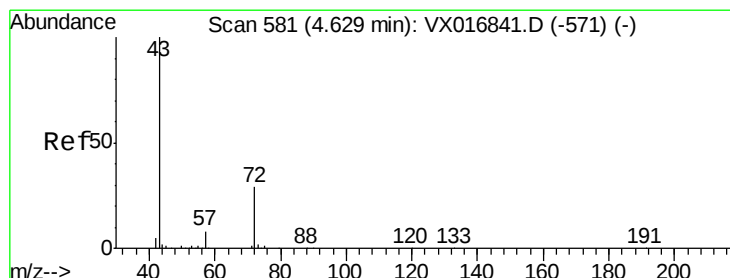
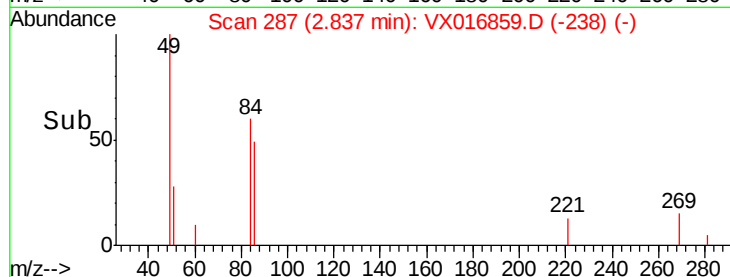
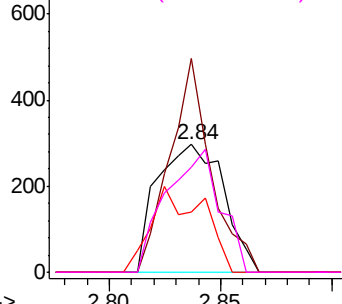


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.349 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX016859.D

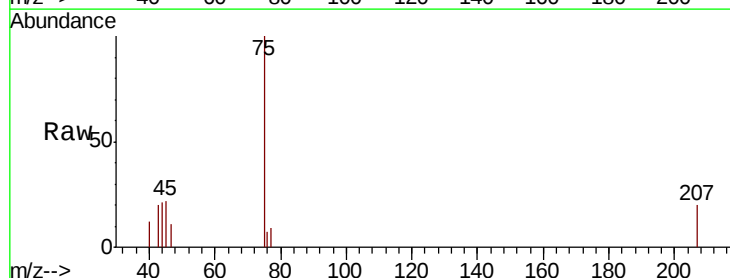
Acq: 18 Jun 2020 23:55

Tgt Ion: 43 Resp: 501

Ion Ratio Lower Upper

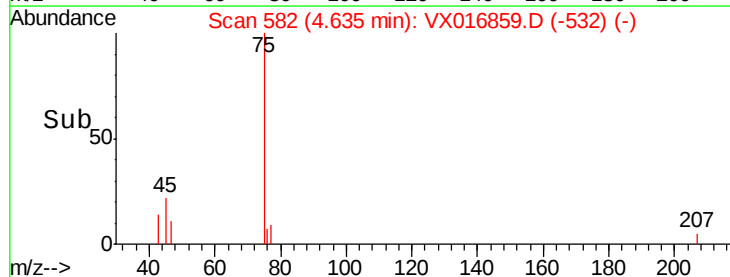
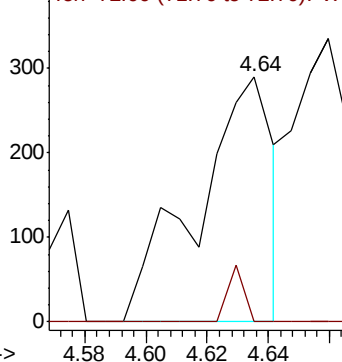
43 100

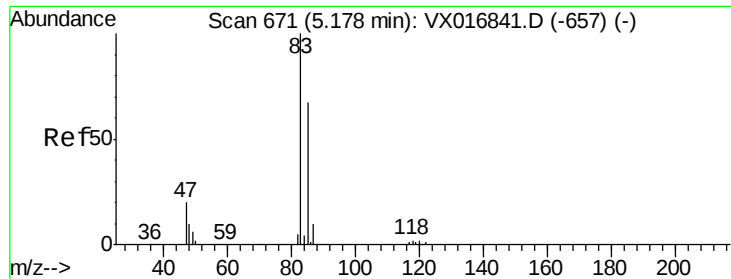
72 0.0 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

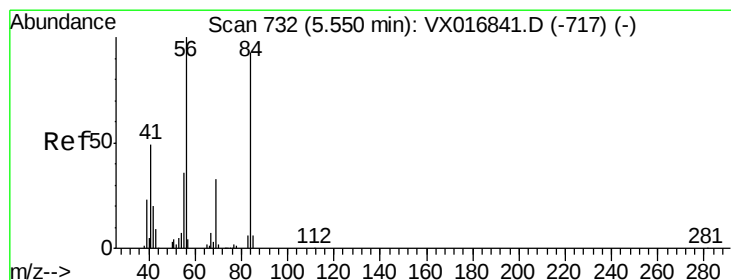
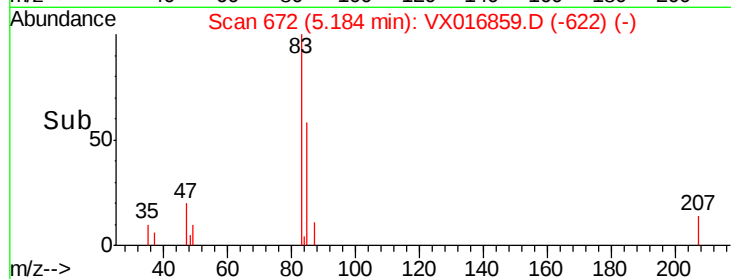
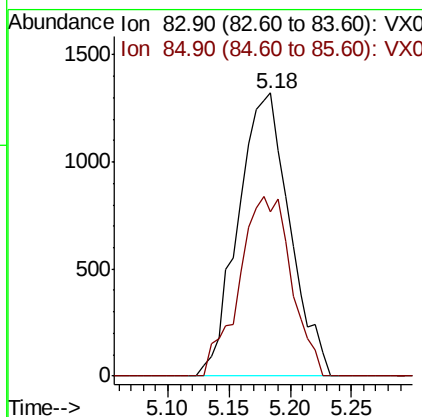
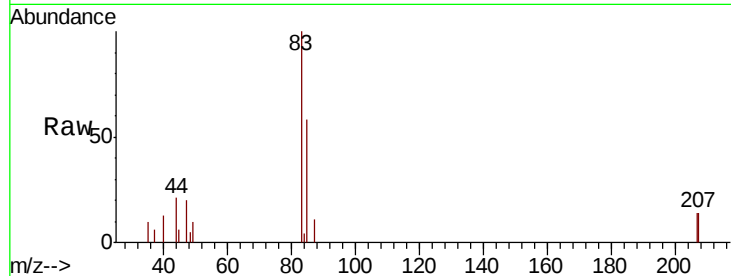




#30
Chloroform
Concen: 0.908 ug/l
RT: 5.18 min Scan# 672
Delta R.T. 0.01 min
Lab File: VX016859.D
Acq: 18 Jun 2020 23:55

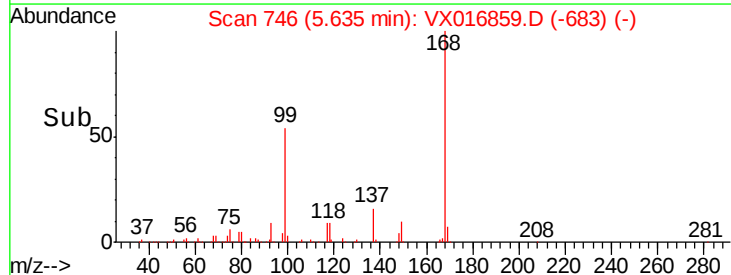
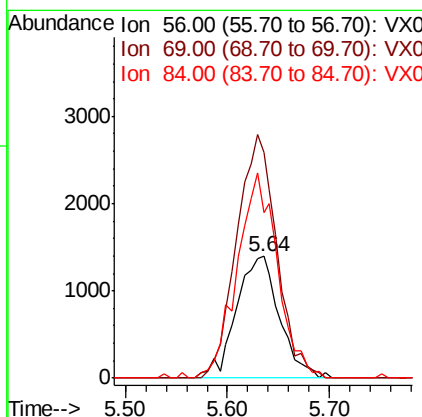
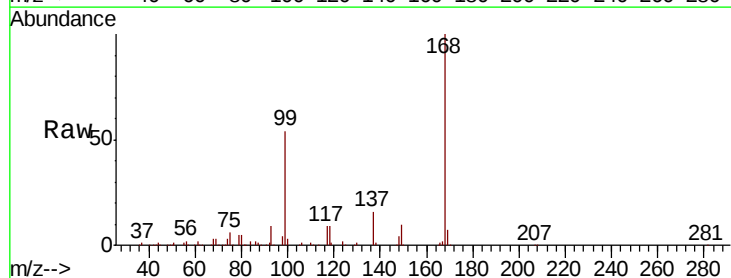
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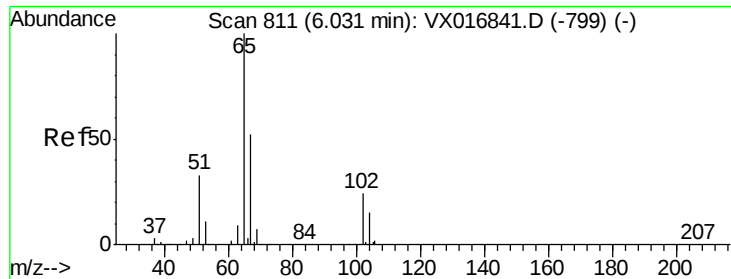
Tot Ion: 83 Resp: 3875
Ion Ratio Lower Upper
83 100
85 58.2 53.4 80.0



#31
Cyclohexane
Concen: 1.160 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016859.D
Acq: 18 Jun 2020 23:55

Tgt Ion: 56 Resp: 4124
Ion Ratio Lower Upper
56 100
69 184.8 26.1 39.1#
84 136.1 73.0 109.6#

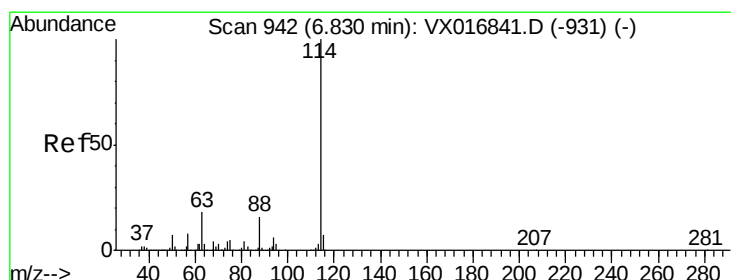
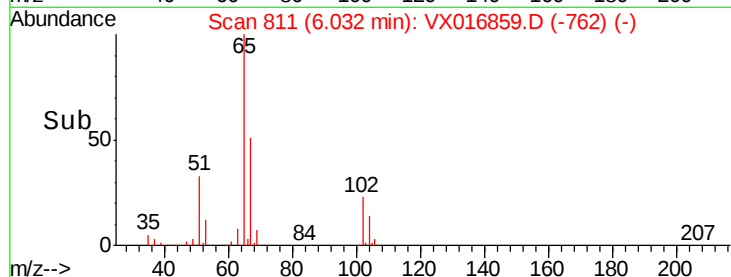
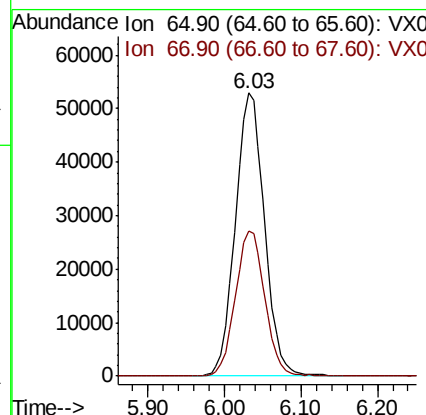
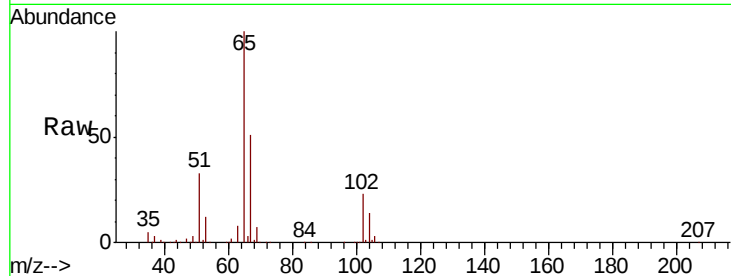




#33
 1,2-Dichloroethane-d4
 Concen: 48.524 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX016859.D
 Acq: 18 Jun 2020 23:55

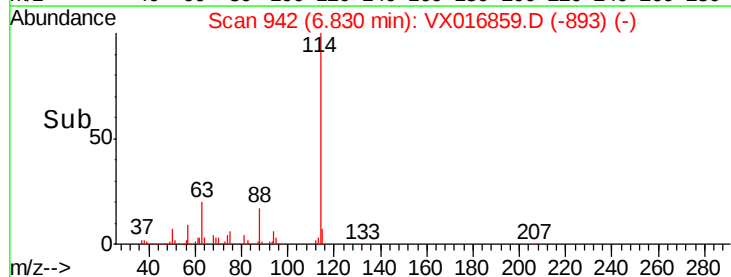
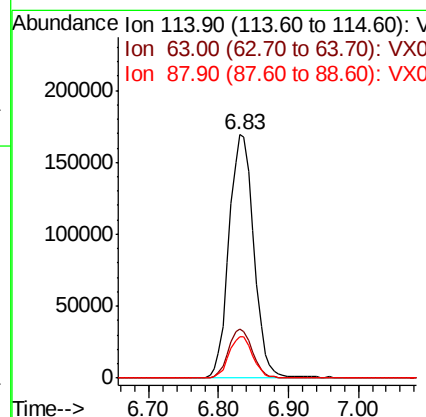
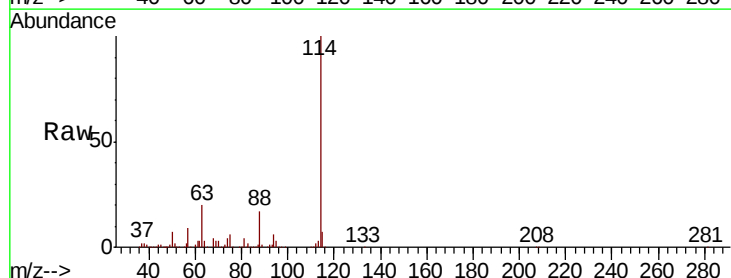
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-22

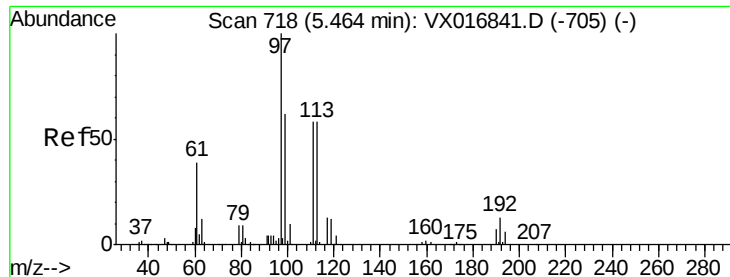
Tot Ion: 65 Resp: 139472
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX016859.D
 Acq: 18 Jun 2020 23:55

Tgt Ion: 114 Resp: 418631
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 37.0
 88 16.9 0.0 32.0

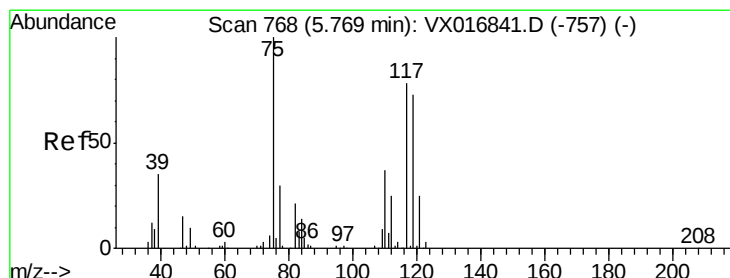
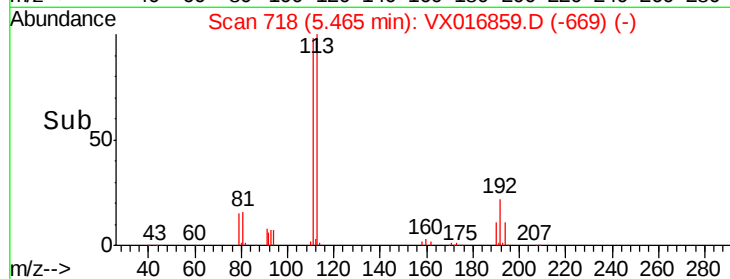
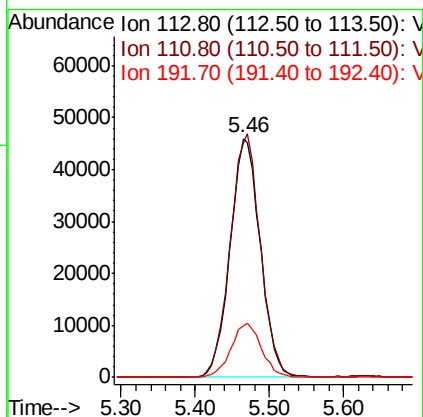
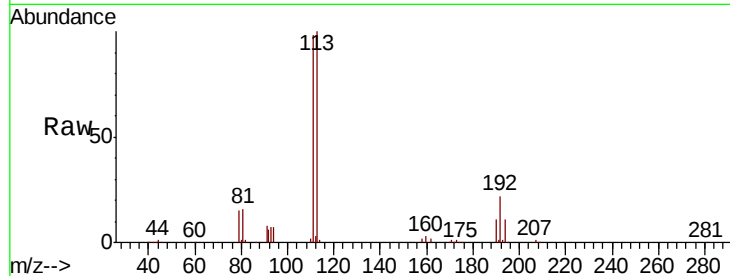




#35
 Dibromofluoromethane
 Concen: 48.821 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VX016859.D
 Acq: 18 Jun 2020 23:55

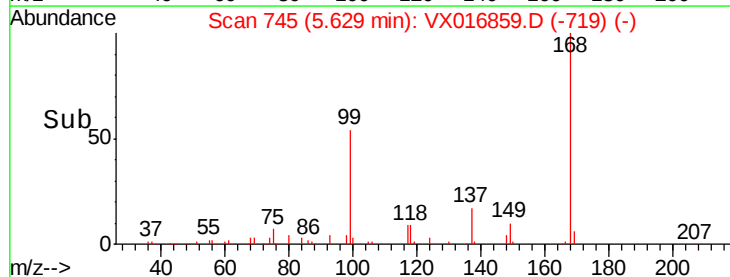
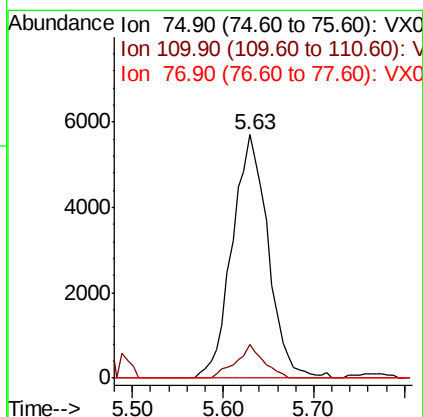
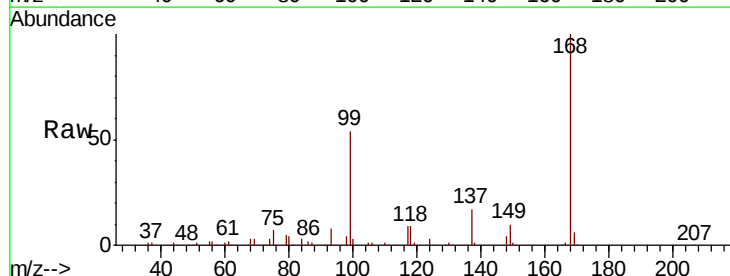
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-22

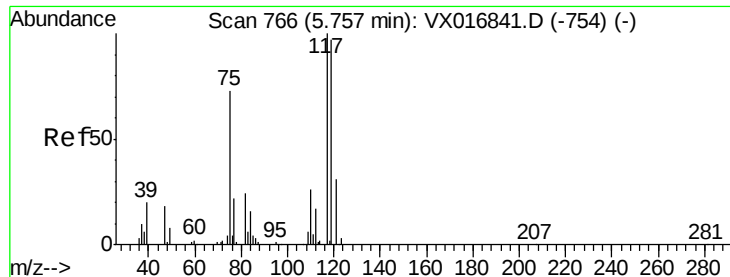
Tot Ion:113 Resp: 130742
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.0 121.4
 192 22.7 18.5 27.7



#36
 1,1-Dichloropropene
 Concen: 4.041 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016859.D
 Acq: 18 Jun 2020 23:55

Tgt Ion: 75 Resp: 15619
 Ion Ratio Lower Upper
 75 100
 110 10.6 18.9 56.9#
 77 0.0 25.6 38.4#

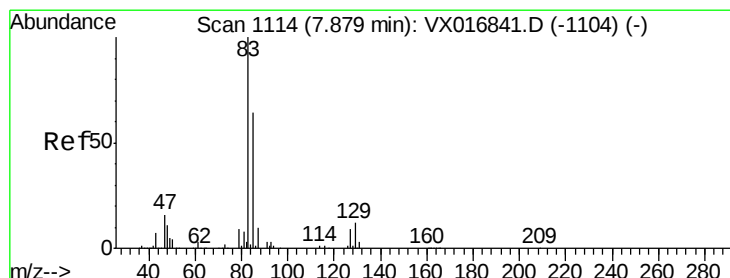
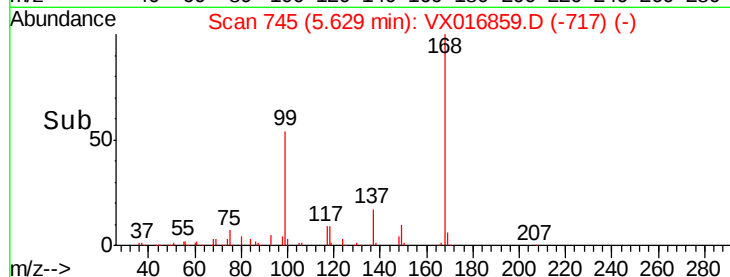
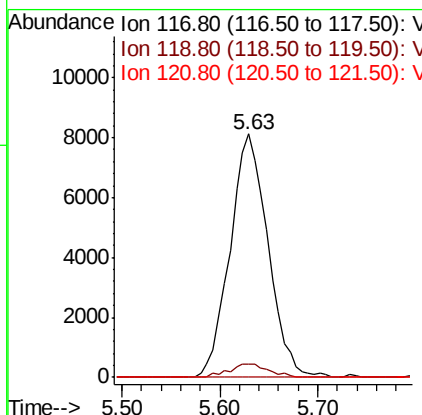
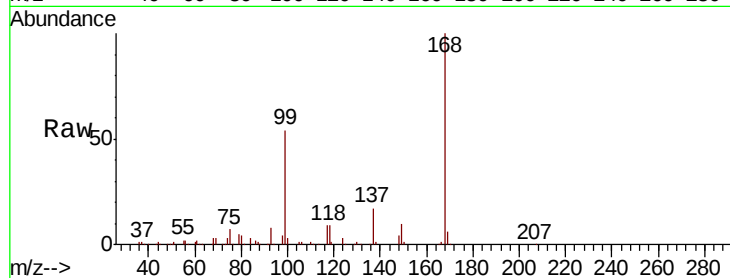




#38
Carbon Tetrachloride
Concen: 5.034 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016859.D
Acq: 18 Jun 2020 23:55

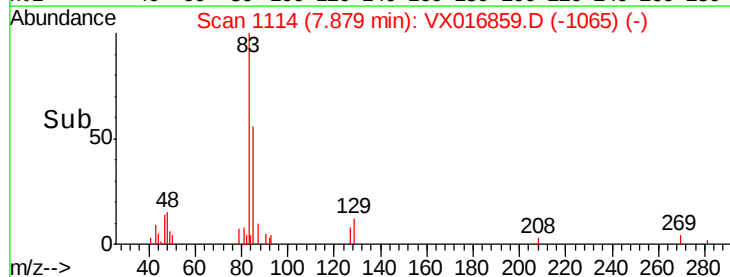
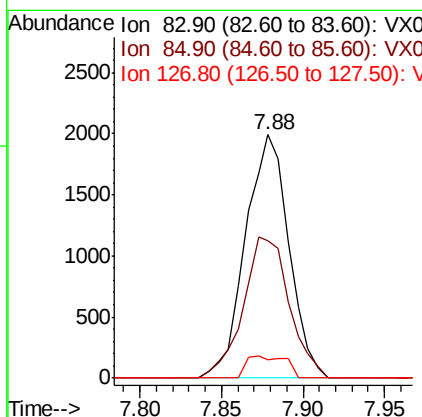
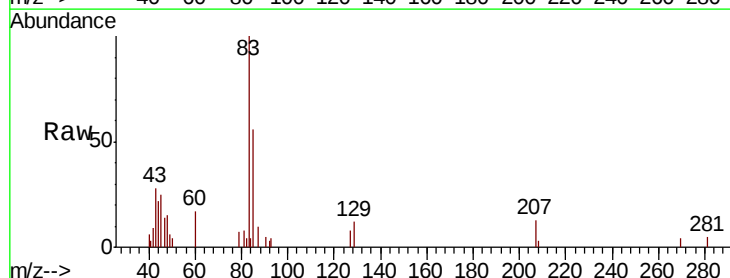
Instrument :
MSVOA_X
ClientSampled :
MW-22

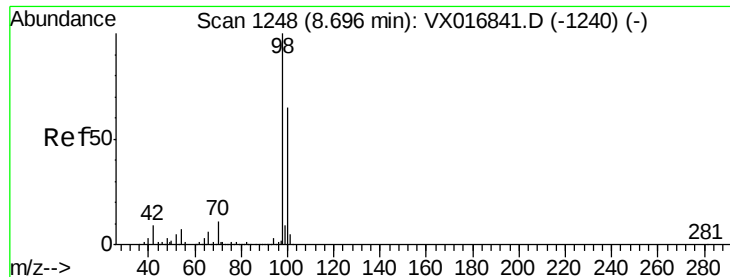
Tot Ion:117 Resp: 21833
Ion Ratio Lower Upper
117 100
119 5.4 77.4 116.2#
121 0.0 24.7 37.1#



#47
Bromodichloromethane
Concen: 0.875 ug/l
RT: 7.88 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VX016859.D
Acq: 18 Jun 2020 23:55

Tgt Ion: 83 Resp: 3681
Ion Ratio Lower Upper
83 100
85 56.4 50.9 76.3
127 7.8 7.4 11.0





#50

Toluene-d8

Concen: 49.607 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

Instrument :

MSVOA_X

ClientSampleId :

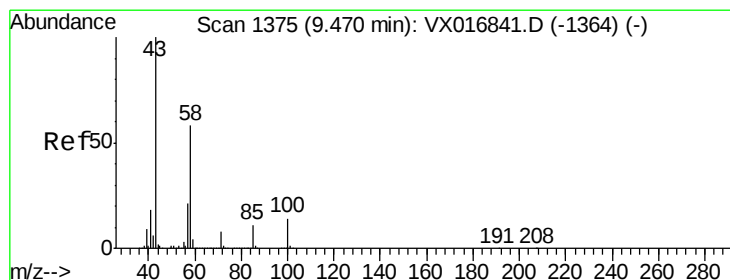
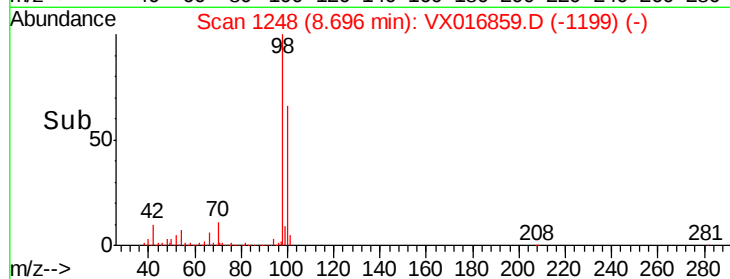
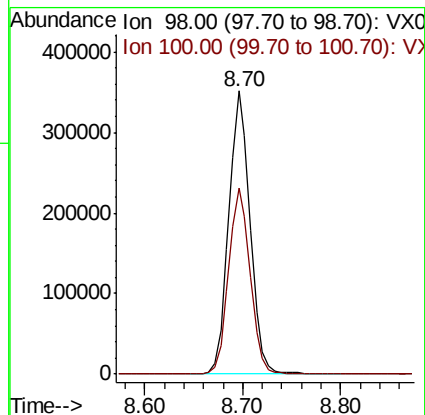
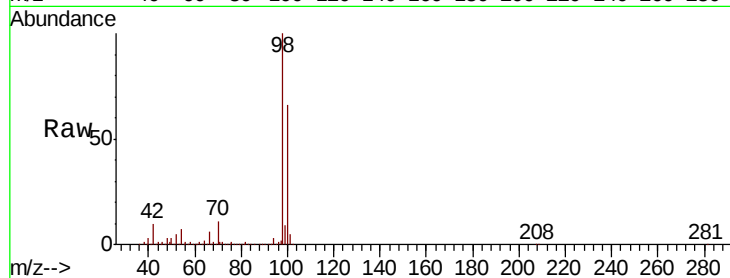
MW-22

Tot Ion: 98 Resp: 531501

Ion Ratio Lower Upper

98 100

100 66.6 54.0 81.0



#59

2-Hexanone

Concen: Below Cal

RT: 9.47 min Scan# 1375

Delta R.T. 0.00 min

Lab File: VX016859.D

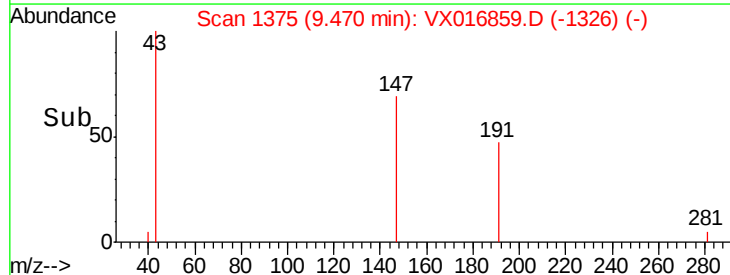
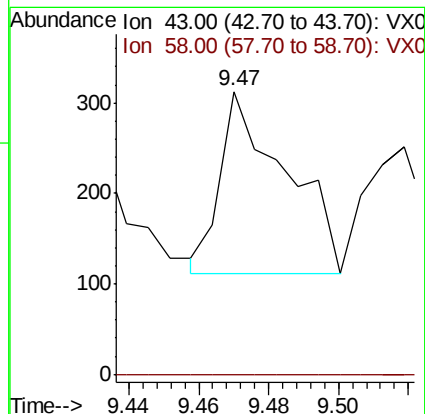
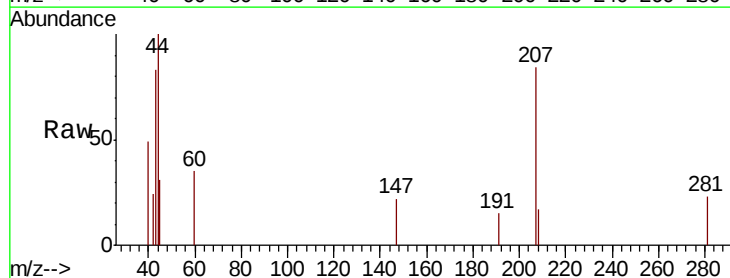
Acq: 18 Jun 2020 23:55

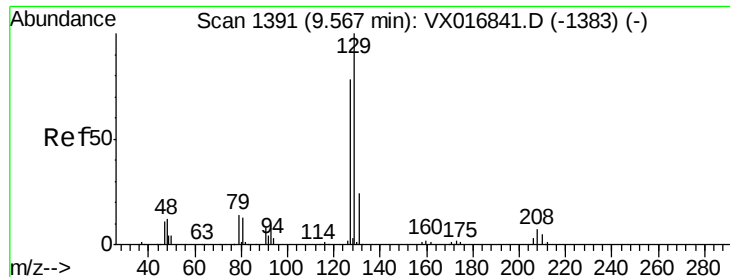
Tgt Ion: 43 Resp: 260

Ion Ratio Lower Upper

43 100

58 0.0 29.8 89.4#





#60

Dibromochloromethane

Concen: 0.700 ug/l

RT: 9.57 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

Instrument :

MSVOA_X

ClientSampleId :

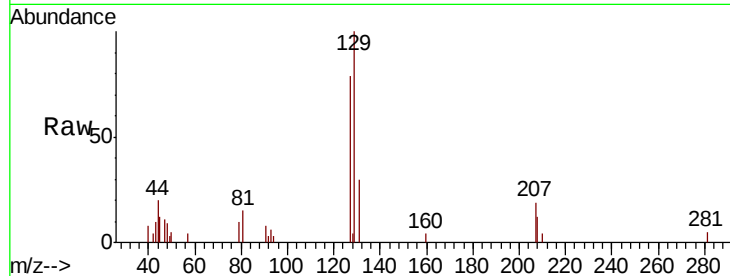
MW-22

Tot Ion:129 Resp: 2441

Ion Ratio Lower Upper

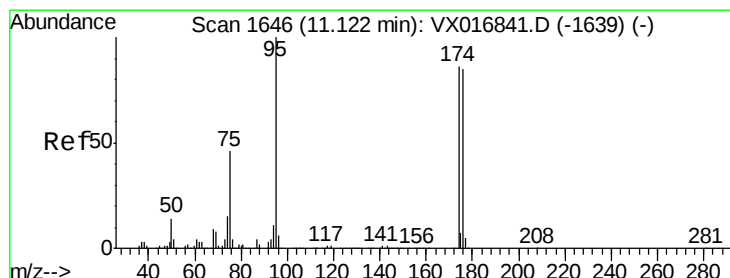
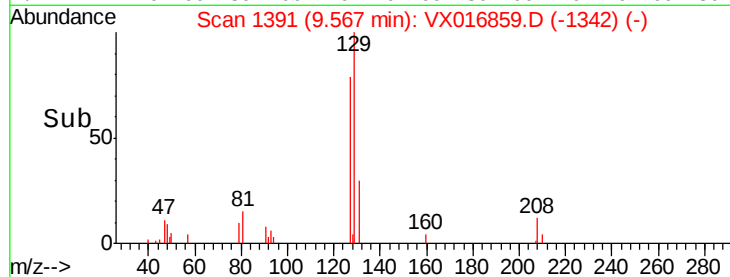
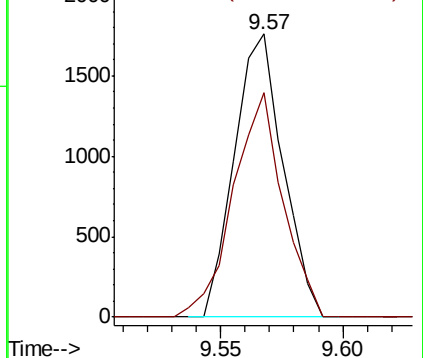
129 100

127 81.0 38.5 115.5



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.266 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

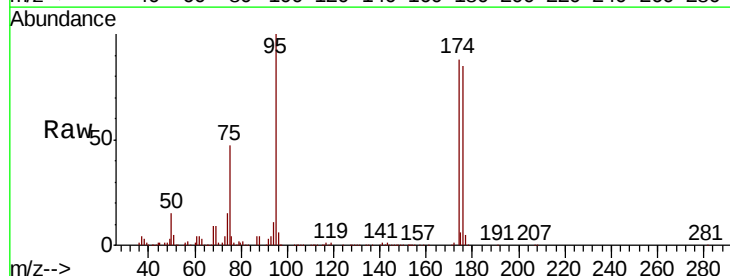
Tgt Ion: 95 Resp: 194030

Ion Ratio Lower Upper

95 100

174 87.7 0.0 174.2

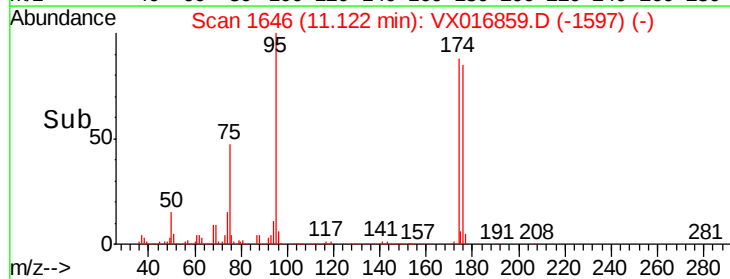
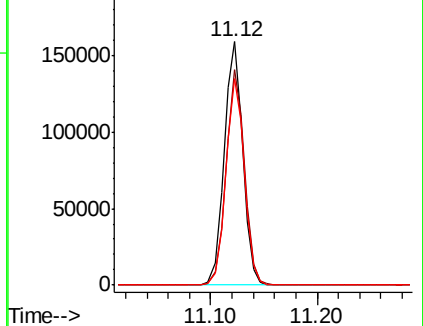
176 84.5 0.0 170.0

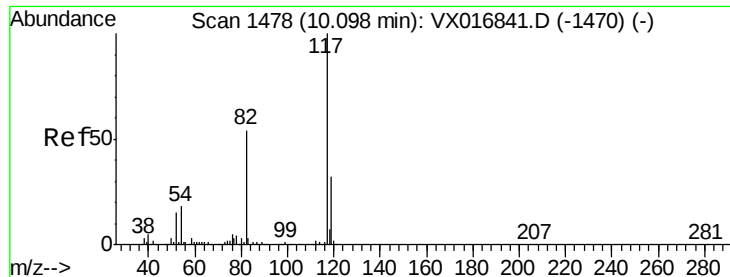


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

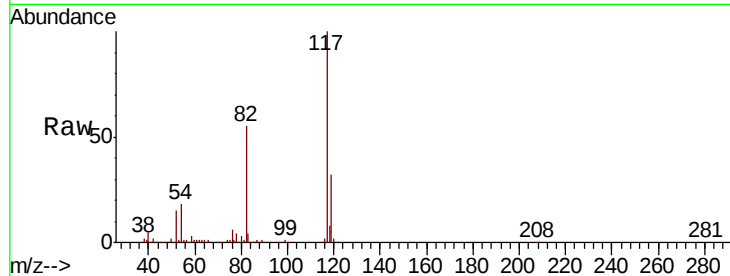




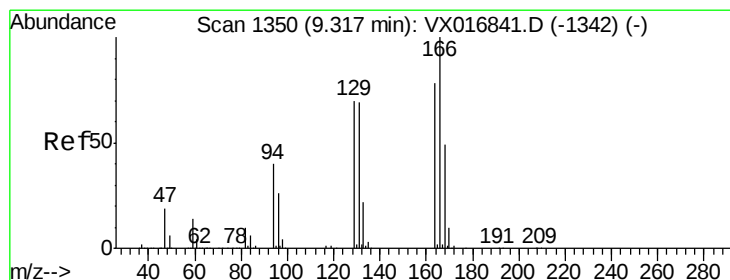
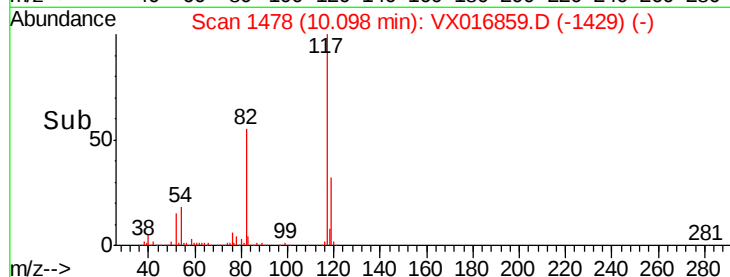
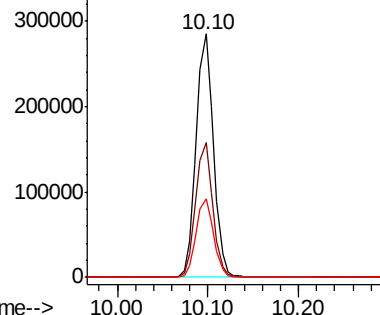
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016859.D
Acq: 18 Jun 2020 23:55

Instrument :
MSVOA_X
ClientSampleId :
MW-22

Tot Ion:117 Resp: 382391
Ion Ratio Lower Upper
117 100
82 55.3 43.4 65.0
119 32.3 25.7 38.5

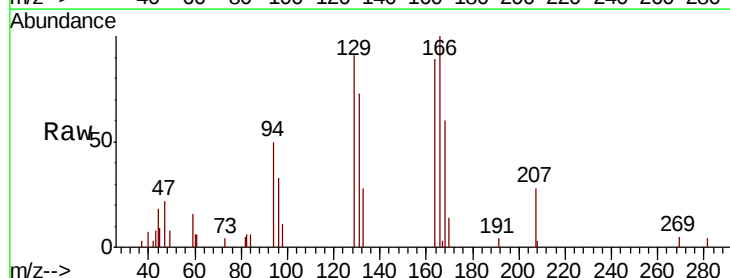


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

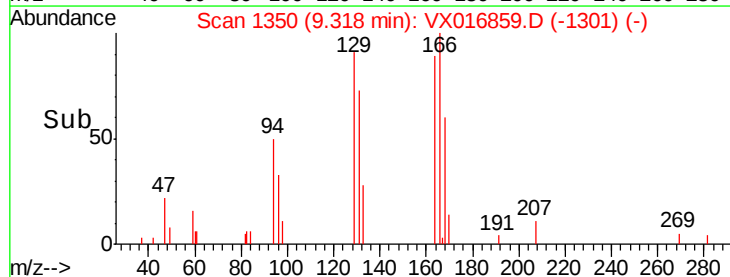
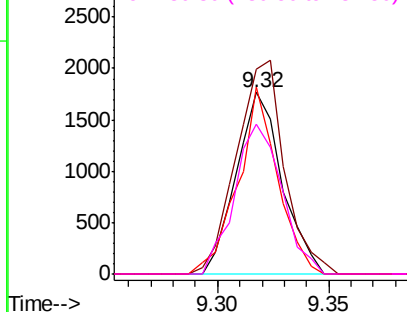


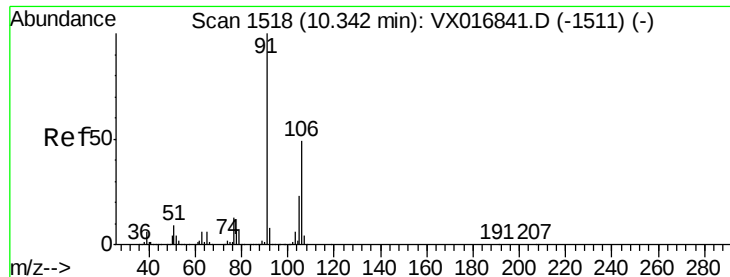
#64
Tetrachloroethene
Concen: 0.713 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX016859.D
Acq: 18 Jun 2020 23:55

Tgt Ion:164 Resp: 2525
Ion Ratio Lower Upper
164 100
166 112.7 102.6 153.8
129 103.0 72.2 108.2
131 82.7 70.8 106.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#68

m/p-Xvlenes

Concen: 0.247 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

Instrument :

MSVOA_X

ClientSampled :

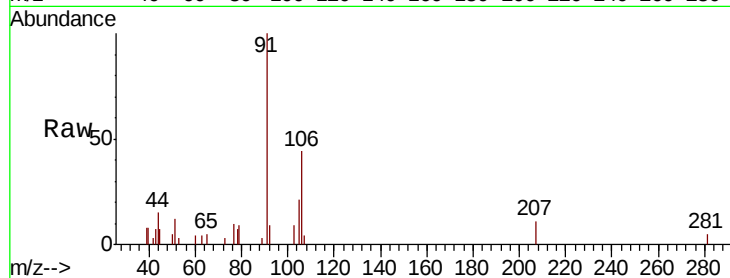
MW-22

Tot Ion:106 Resp: 1256

Ion Ratio Lower Upper

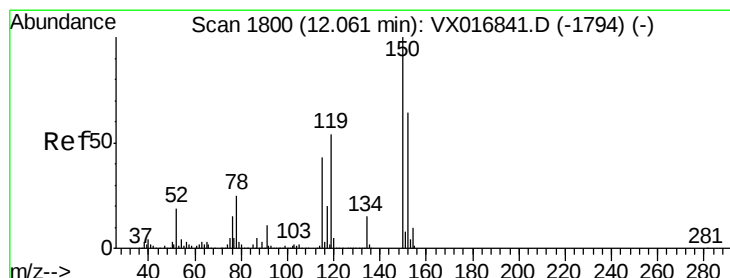
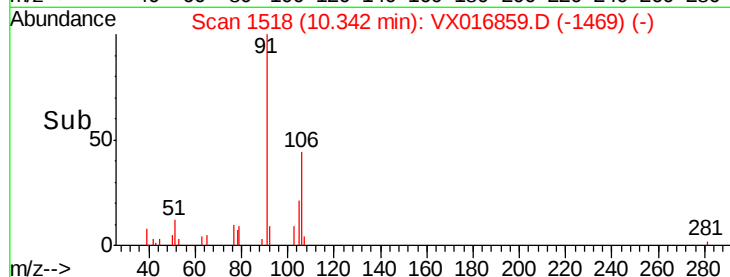
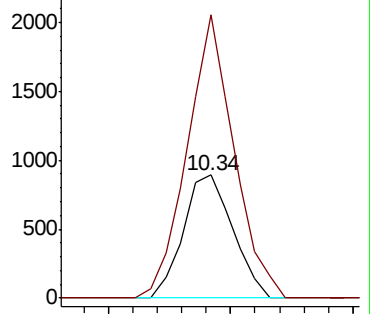
106 100

91 217.8 161.5 242.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

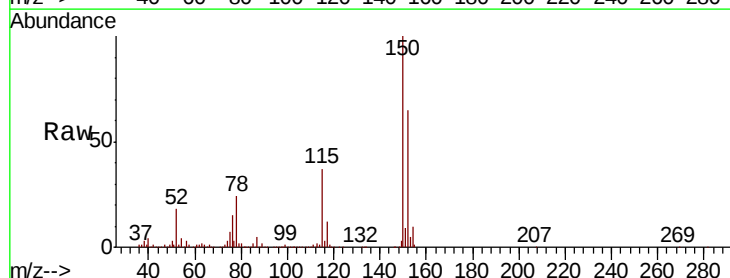
Tgt Ion:152 Resp: 235861

Ion Ratio Lower Upper

152 100

115 58.1 40.9 122.8

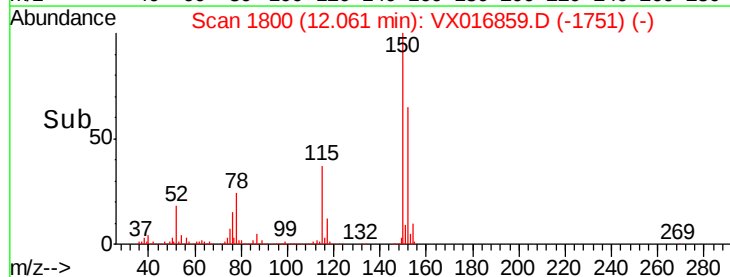
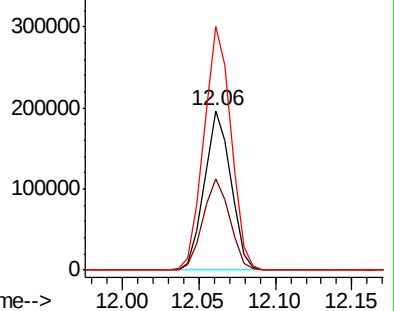
150 156.1 0.0 344.2

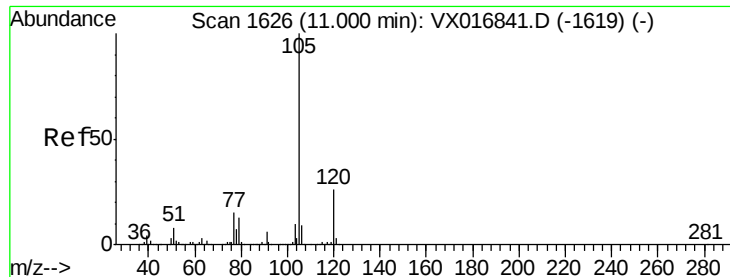


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 10.99 min Scan# 1625

Delta R.T. -0.01 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

Instrument :

MSVOA_X

ClientSampleId :

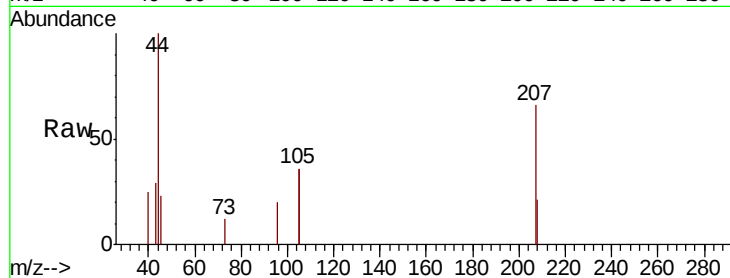
MW-22

Tot Ion:105 Resp: 303

Ion Ratio Lower Upper

105 100

120 0.0 13.2 39.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.99

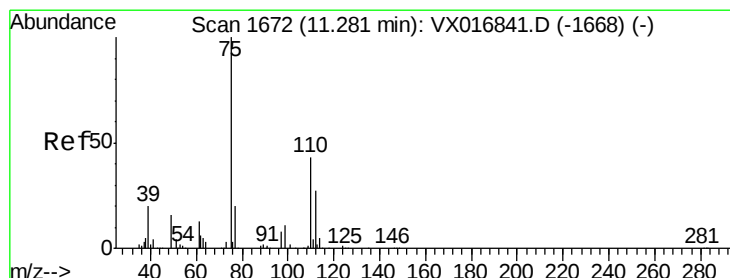
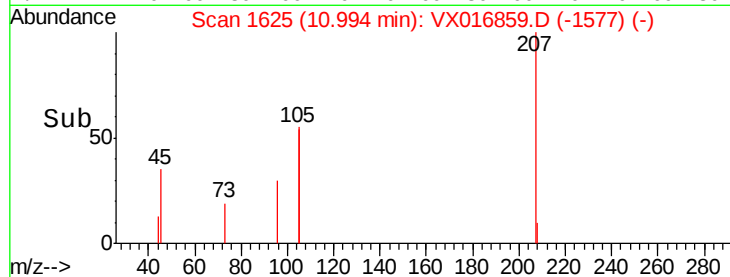
200

100

0

Time-->

11.00



#76

1,2,3-Trichloropropane

Concen: 21.366 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016859.D

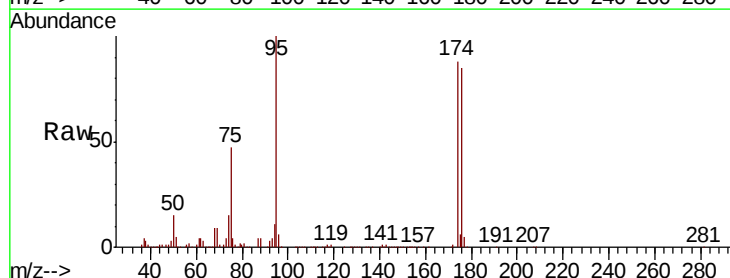
Acq: 18 Jun 2020 23:55

Tgt Ion: 75 Resp: 93525

Ion Ratio Lower Upper

75 100

77 1.2 20.5 61.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

80000

60000

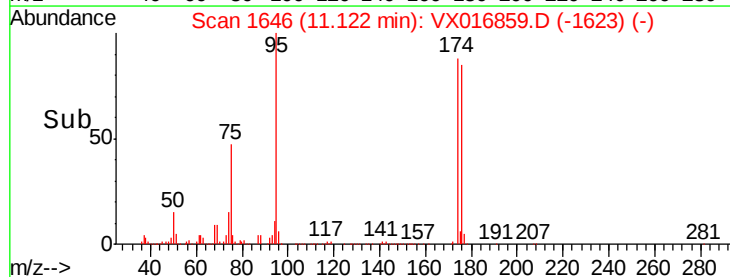
40000

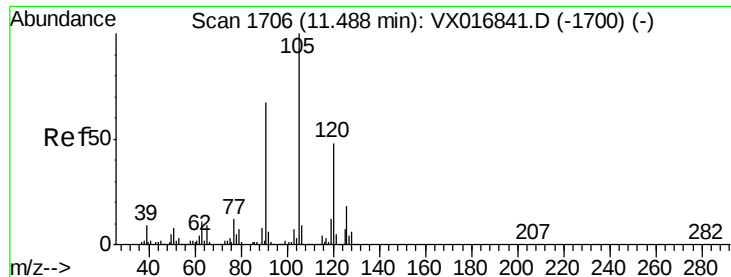
20000

0

Time-->

11.05 11.10 11.15 11.20





#80

1,3,5-Trimethylbenzene

Concen: 0.234 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

Instrument :

MSVOA_X

ClientSampleId :

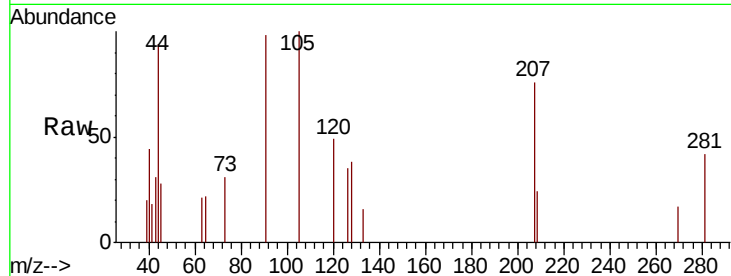
MW-22

Tot Ion:105 Resp: 374

Ion Ratio Lower Upper

105 100

120 40.4 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.49

300

200

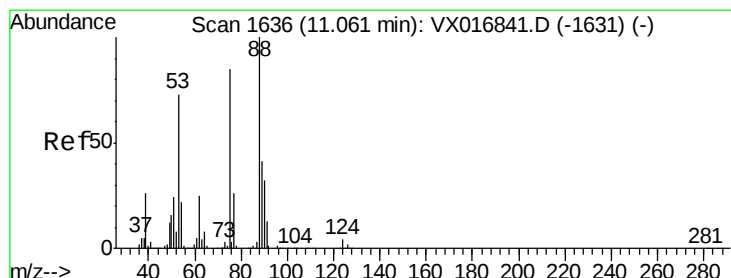
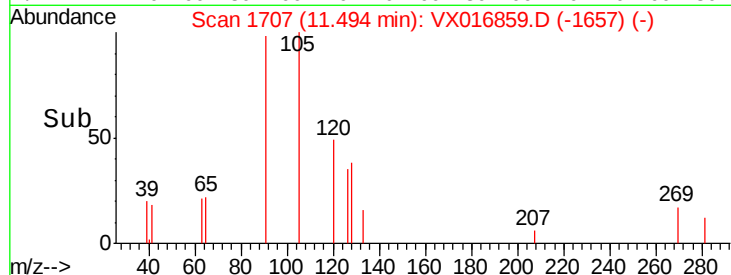
100

0

11.45

11.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 53.168 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

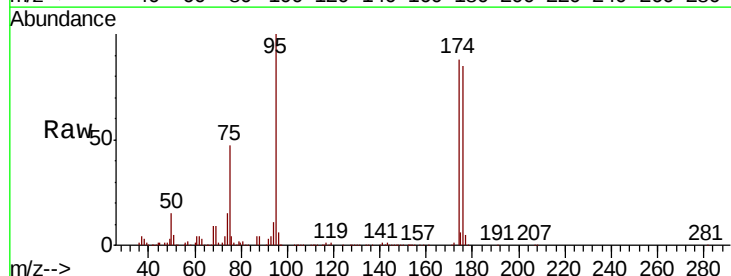
Tgt Ion: 75 Resp: 93525

Ion Ratio Lower Upper

75 100

53 0.1 69.8 104.8#

89 0.0 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

100000

80000

60000

40000

20000

0

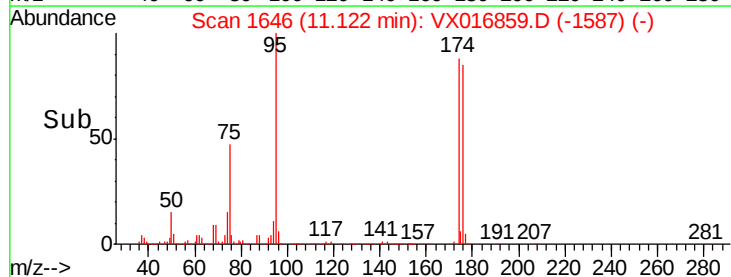
11.05

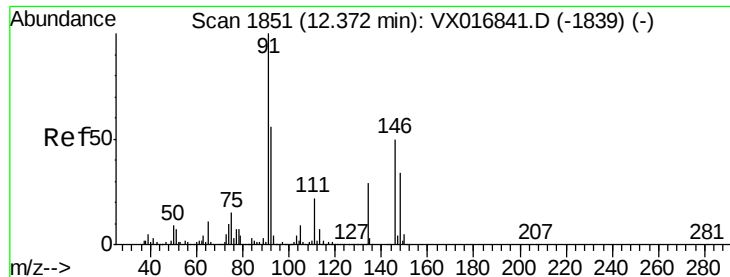
11.10

11.15

11.20

Time-->





#89

n-Butylbenzene

Concen: 3.070 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VX016859.D

Acq: 18 Jun 2020 23:55

Instrument :

MSVOA_X

ClientSampleId :

MW-22

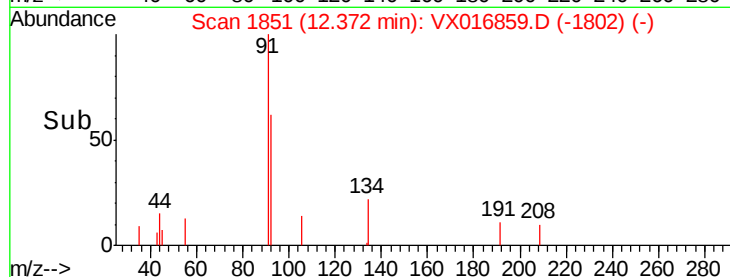
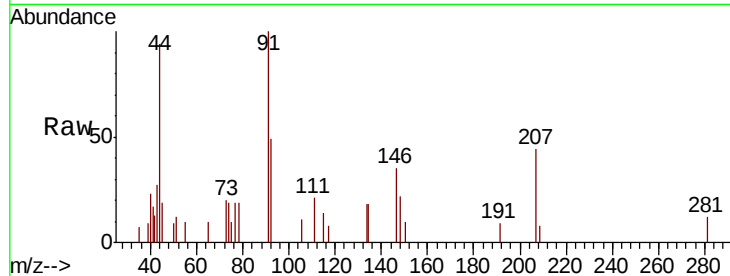
Tot Ion: 91 Resp: 773

Ion Ratio Lower Upper

91 100

92 58.2 27.4 82.2

134 37.4 13.9 41.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V

