

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX060520\
 Data File : VX016618.D
 Acq On : 05 Jun 2020 17:48
 Operator : JC/SP
 Sample : L2894-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW147-200602

Quant Time: Jun 06 06:02:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	225586	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	356795	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	368396	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	194340	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	135182	48.25	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.50%		
35) Dibromofluoromethane	5.47	113	109563	49.87	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.74%		
50) Toluene-d8	8.70	98	447991	52.39	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.78%		
62) 4-Bromofluorobenzene	11.12	95	182207	55.15	ug/l	0.00
Spiked Amount 50.000			Recovery =	110.30%		

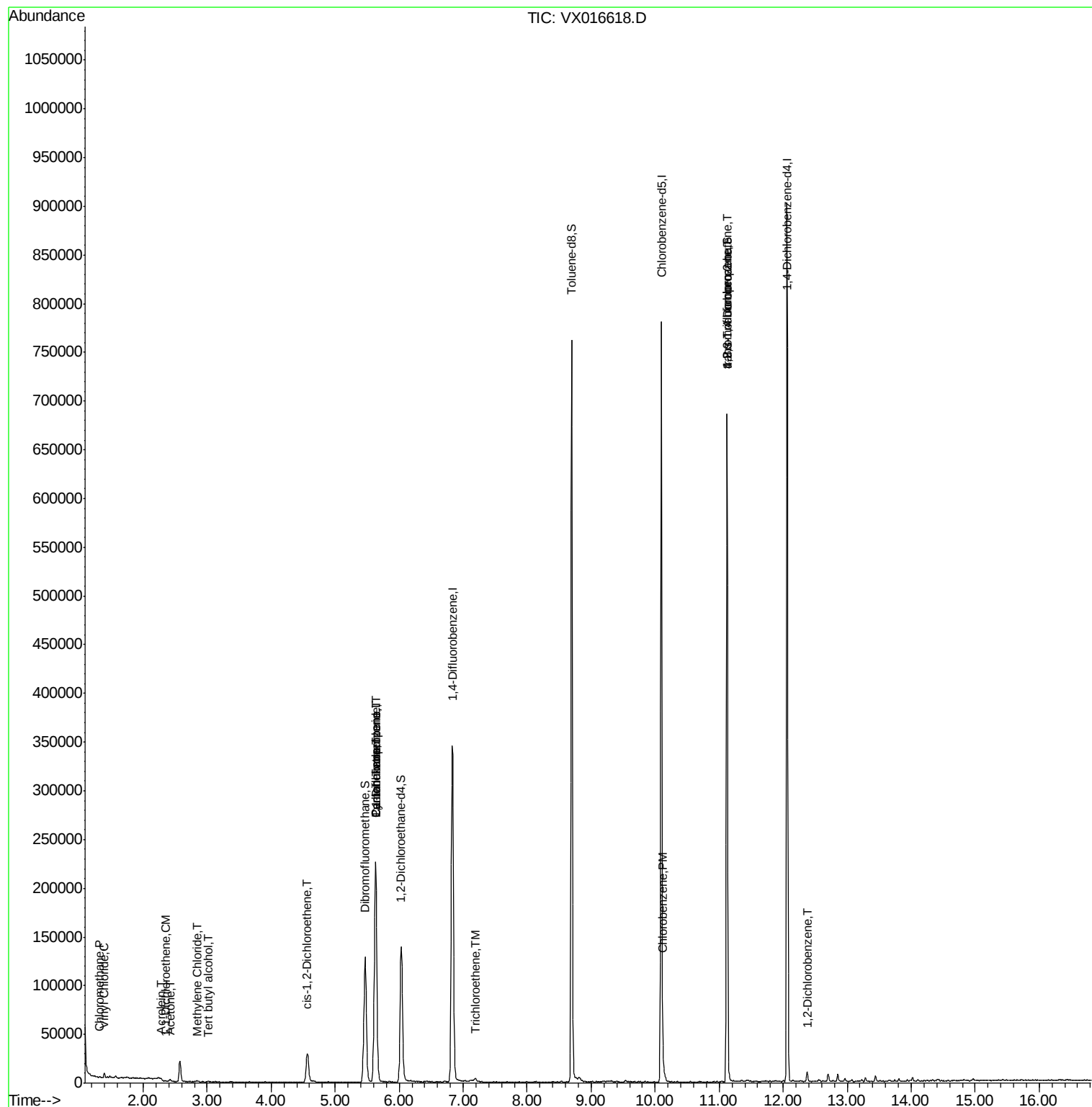
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1217	0.45	ug/l #	86
4) Vinyl Chloride	1.39	62	2514	0.89	ug/l	100
11) Tert butyl alcohol	3.03	59	522	0.73	ug/l #	72
12) 1,1-Dichloroethene	2.35	96	467	0.22	ug/l #	62
13) Acrolein	2.28	56	136	0.45	ug/l #	1
16) Acetone	2.42	43	2510	2.04	ug/l	97
20) Methylene Chloride	2.84	84	612	0.24	ug/l #	75
27) cis-1,2-Dichloroethene	4.57	96	19635	7.07	ug/l	87
31) Cyclohexane	5.64	56	4168	1.07	ug/l #	30
36) 1,1-Dichloropropene	5.64	75	15845	4.69	ug/l #	51
38) Carbon Tetrachloride	5.63	117	21623	6.09	ug/l #	16
44) Trichloroethene	7.20	130	1089	0.34	ug/l	92
65) Chlorobenzene	10.12	112	7713	1.03	ug/l	96
76) 1,2,3-Trichloropropane	11.12	75	88179	20.64	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	88179	50.78	ug/l #	14
91) 1,2-Dichlorobenzene	12.38	146	2898	0.49	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

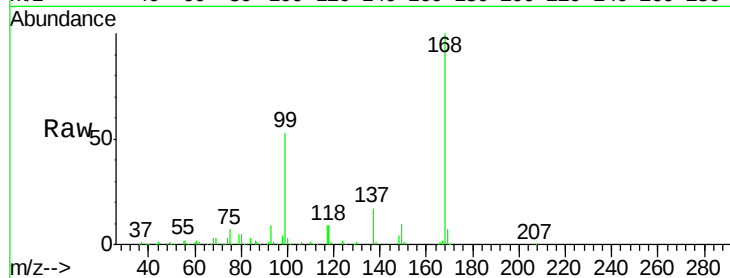
LF012MW147-200602

Tgt Ion:168 Resp: 225586

Ion Ratio Lower Upper

168 100

99 53.2 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

60000

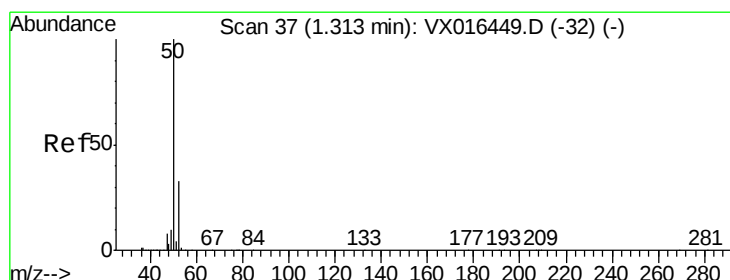
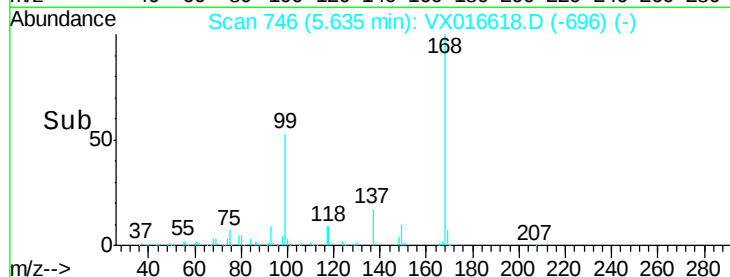
40000

20000

0

Time-->

5.50 5.60 5.70



#3

Chloromethane

Concen: 0.45 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016618.D

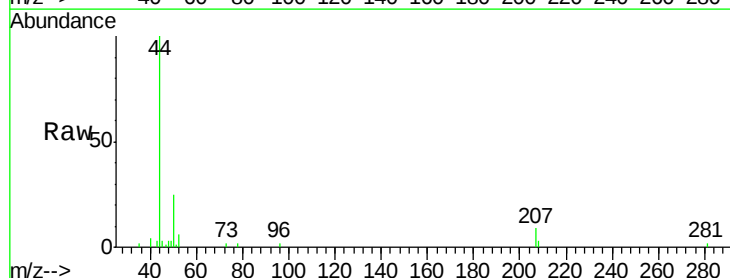
Acq: 05 Jun 2020 17:48

Tgt Ion: 50 Resp: 1217

Ion Ratio Lower Upper

50 100

52 25.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1200

1000

800

600

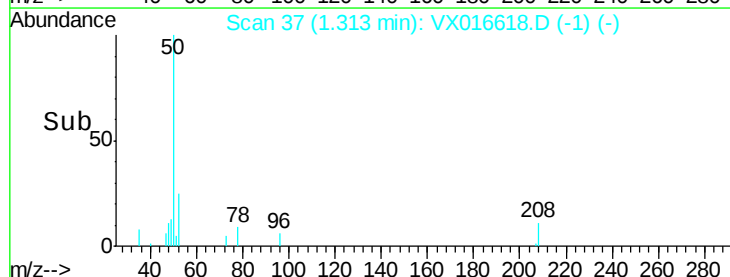
400

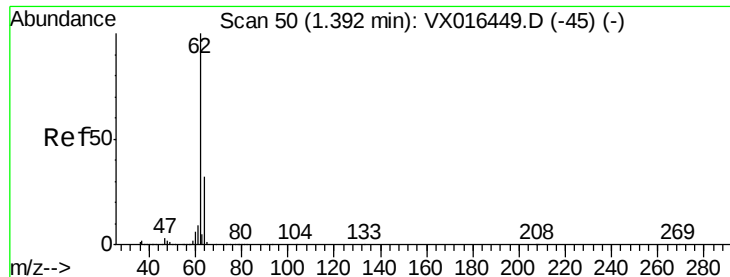
200

0

Time-->

1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 0.89 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

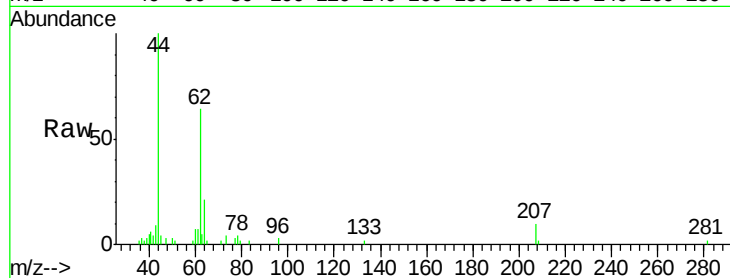
LF012MW147-200602

Tgt Ion: 62 Resp: 2514

Ion Ratio Lower Upper

62 100

64 32.5 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

2500

2000

1500

1000

500

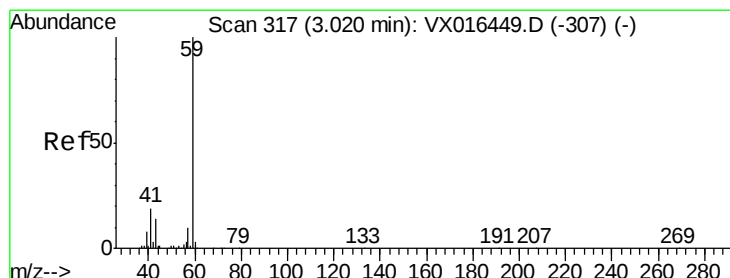
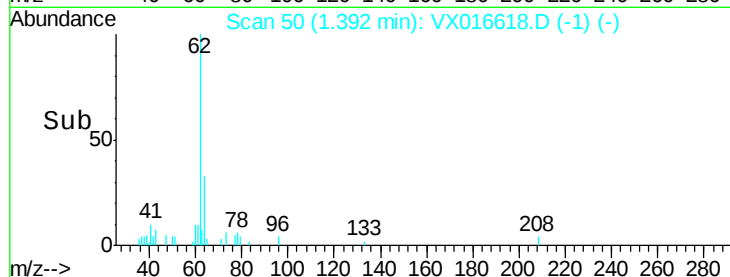
0

Time-->

1.35

1.40

1.45



#11

Tert butyl alcohol

Concen: 0.73 ug/l

RT: 3.03 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX016618.D

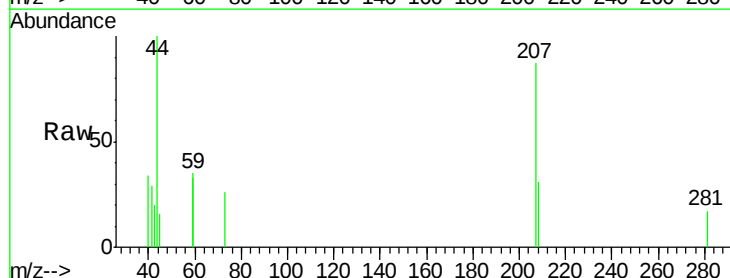
Acq: 05 Jun 2020 17:48

Tgt Ion: 59 Resp: 522

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

300

250

200

150

100

50

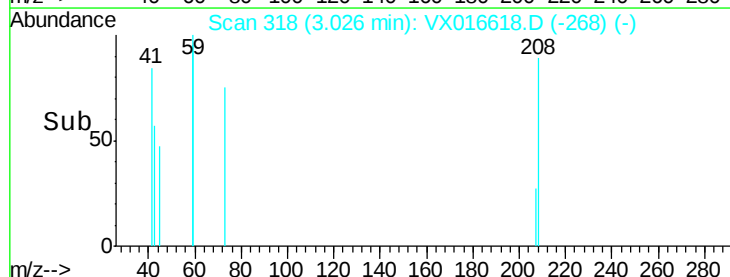
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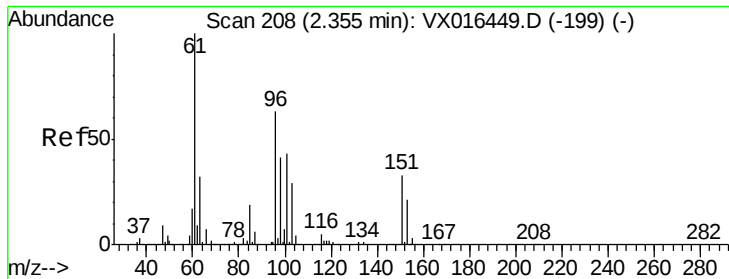
Time-->

2.95

3.00

3.05





#12

1,1-Dichloroethene

Concen: 0.22 ug/l

RT: 2.35 min Scan# 207

Delta R.T. -0.01 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

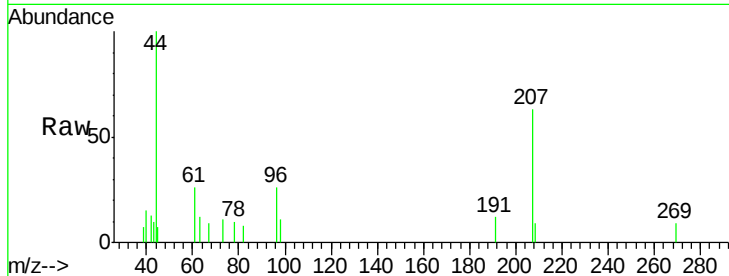
Instrument :

MSVOA_X

ClientSampleId :

LF012MW147-200602

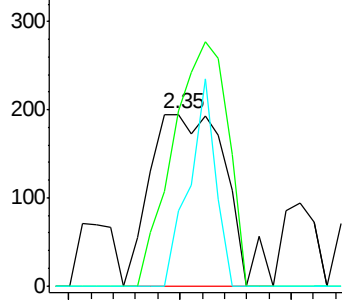
Tgt Ion:	96	Resp:	467
Ion	Ratio	Lower	Upper
96	100		
61	102.1	126.6	189.8#
98	43.6	51.3	76.9#



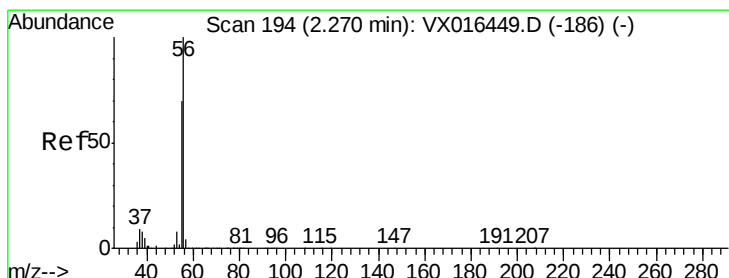
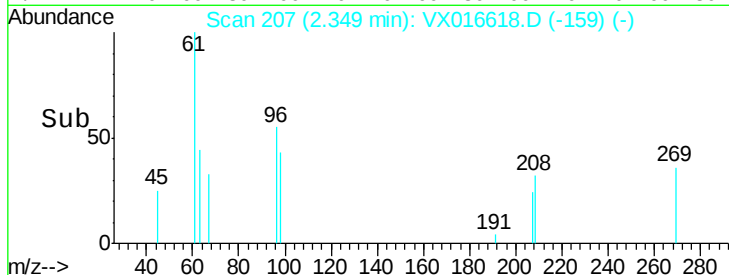
Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->



#13

Acrolein

Concen: 0.45 ug/l

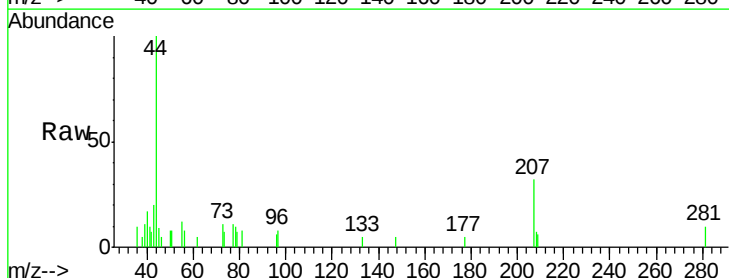
RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX016618.D

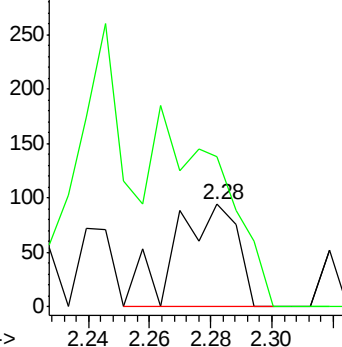
Acq: 05 Jun 2020 17:48

Tgt Ion:	56	Resp:	136
Ion	Ratio	Lower	Upper
56	100		
55	199.3	58.3	87.5#

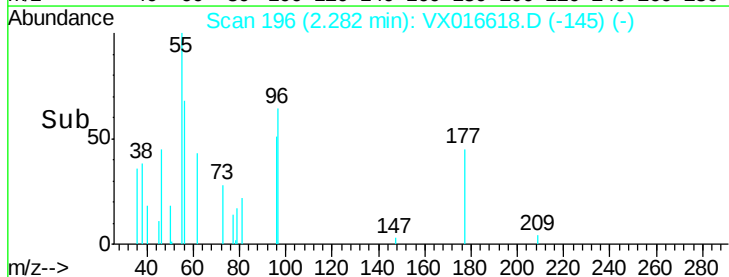


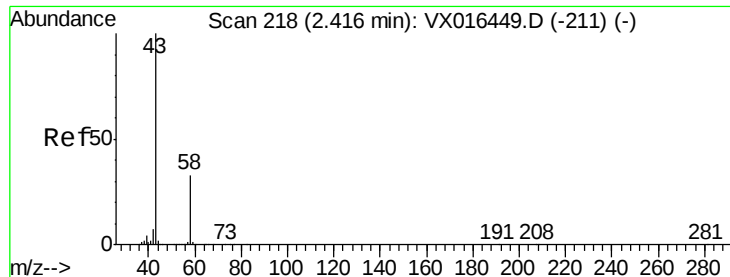
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->





#16

Acetone

Concen: 2.04 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

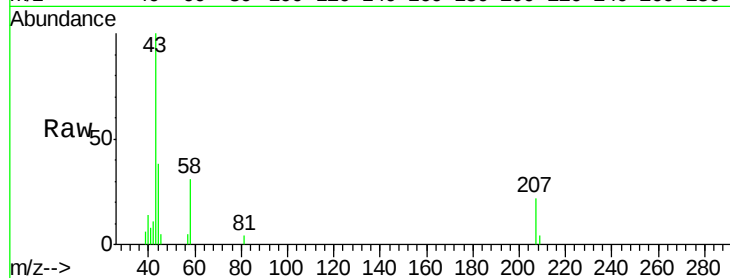
LF012MW147-200602

Tgt Ion: 43 Resp: 2510

Ion Ratio Lower Upper

43 100

58 30.8 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

1500

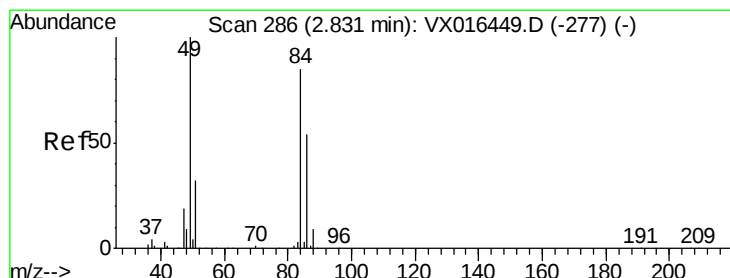
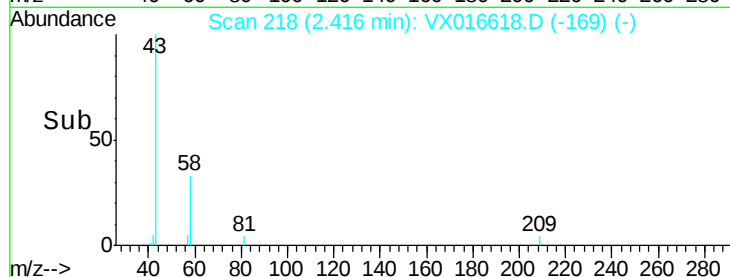
1000

500

0

Time-->

2.35 2.40 2.45 2.50



#20

Methylene Chloride

Concen: 0.24 ug/l

RT: 2.84 min Scan# 288

Delta R.T. 0.01 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

Tgt Ion: 84 Resp: 612

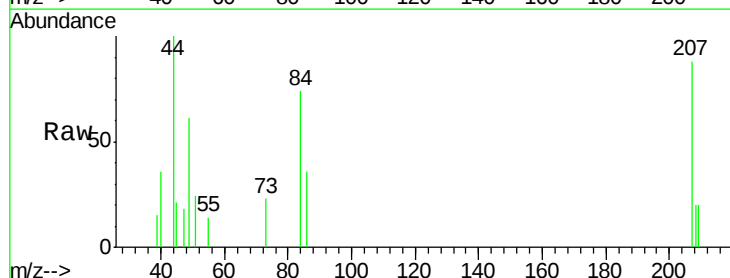
Ion Ratio Lower Upper

84 100

49 82.3 94.5 141.7#

51 32.8 30.2 45.4

86 48.6 51.1 76.7#



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

500

400

300

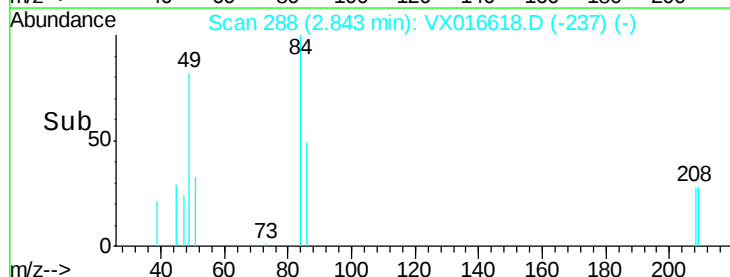
200

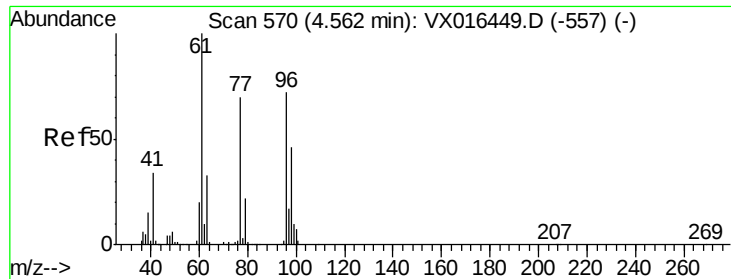
100

0

Time-->

2.80 2.85



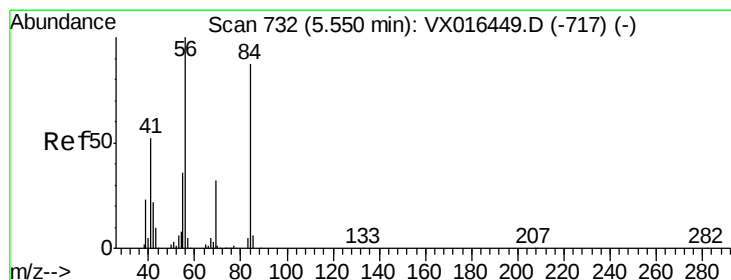
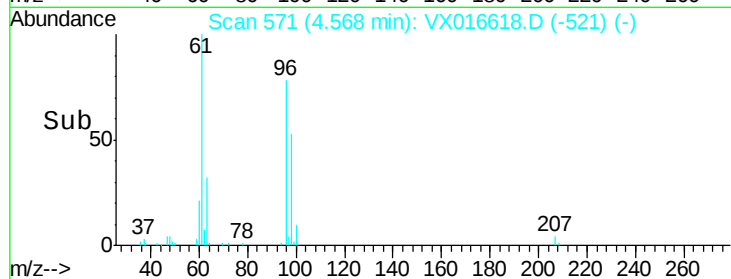
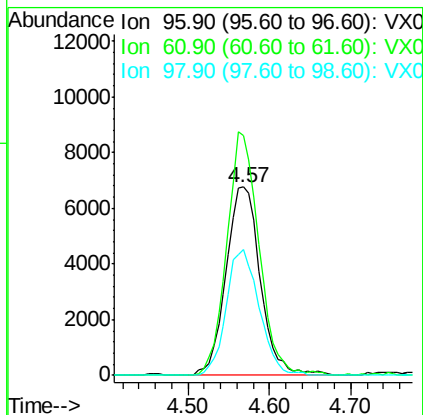
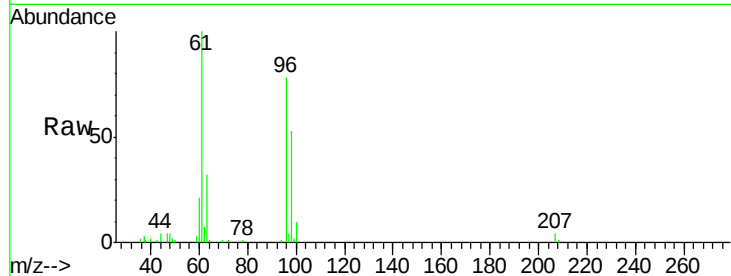


#27

cis-1,2-Dichloroethene
Concen: 7.07 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX016618.D
Acq: 05 Jun 2020 17:48

Instrument :
MSVOA_X
ClientSampleId :
LF012MW147-200602

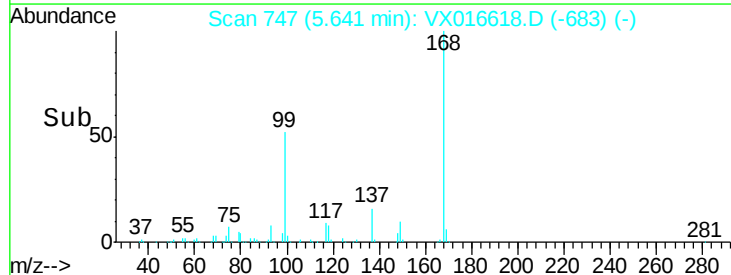
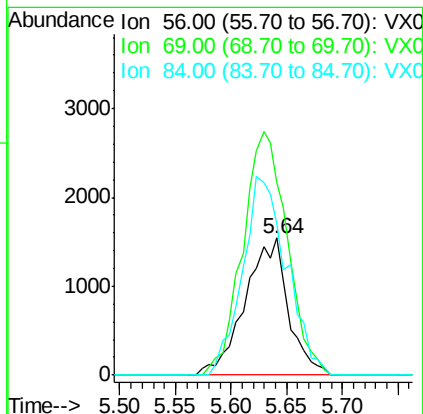
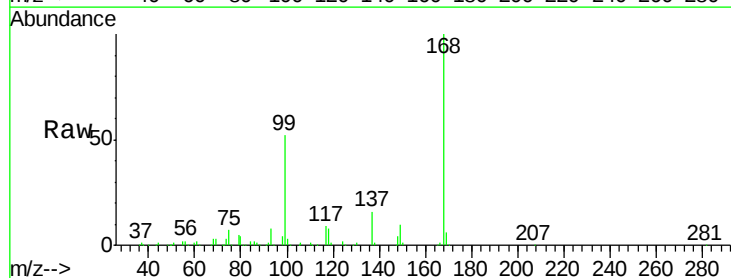
Tgt Ion: 96 Resp: 19635
Ion Ratio Lower Upper
96 100
61 120.3 0.0 284.6
98 64.2 0.0 127.2

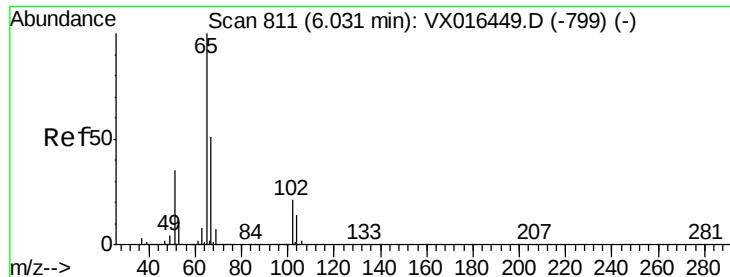


#31

Cyclohexane
Concen: 1.07 ug/l
RT: 5.64 min Scan# 747
Delta R.T. 0.09 min
Lab File: VX016618.D
Acq: 05 Jun 2020 17:48

Tgt Ion: 56 Resp: 4168
Ion Ratio Lower Upper
56 100
69 140.6 25.7 38.5#
84 110.2 70.0 105.0#

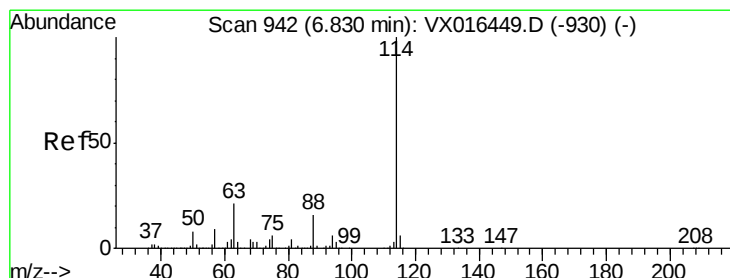
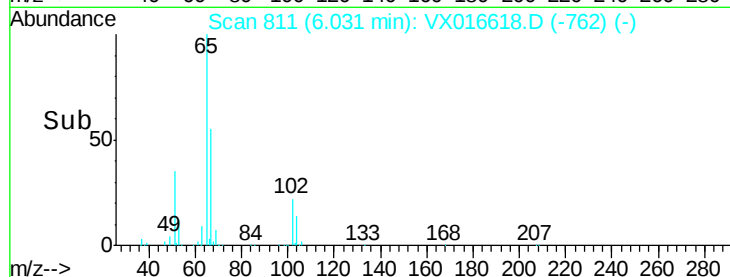
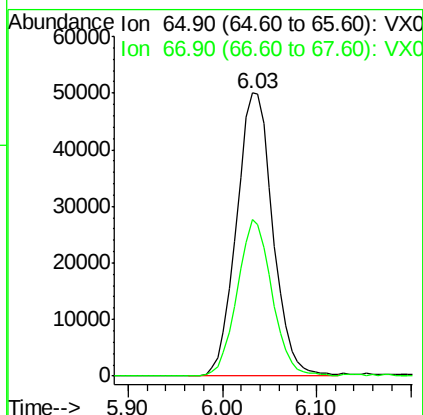
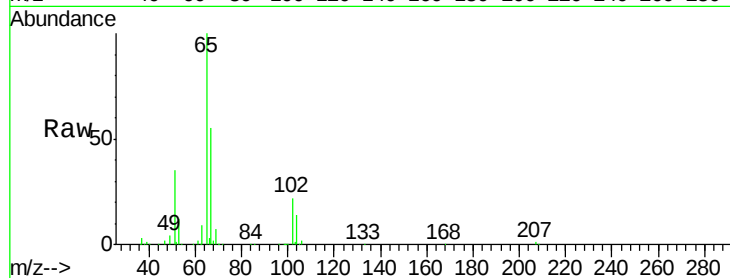




#33
 1,2-Dichloroethane-d4
 Concen: 48.25 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016618.D
 Acq: 05 Jun 2020 17:48

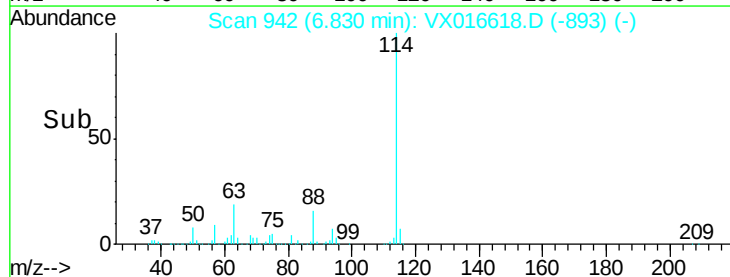
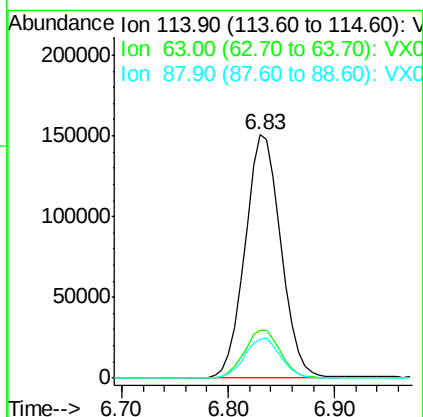
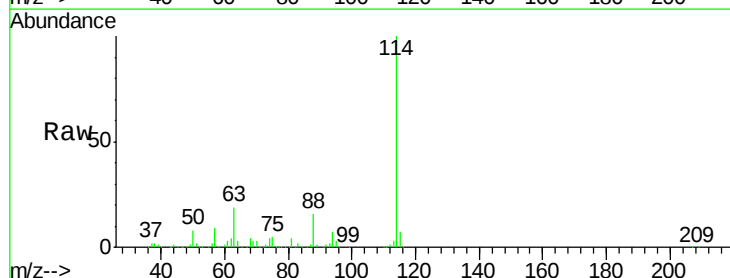
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW147-200602

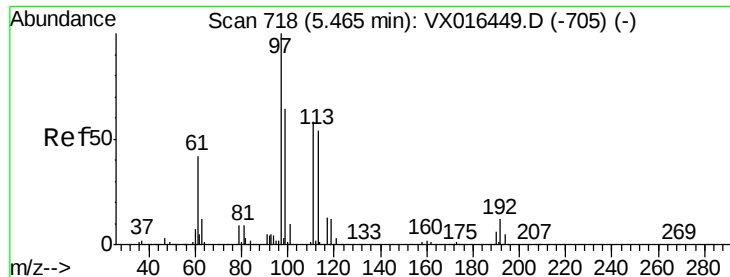
Tgt Ion: 65 Resp: 135182
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016618.D
 Acq: 05 Jun 2020 17:48

Tgt Ion: 114 Resp: 356795
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 42.6
 88 16.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.87 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

LF012MW147-200602

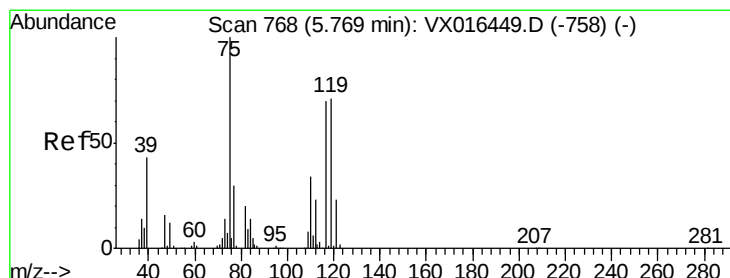
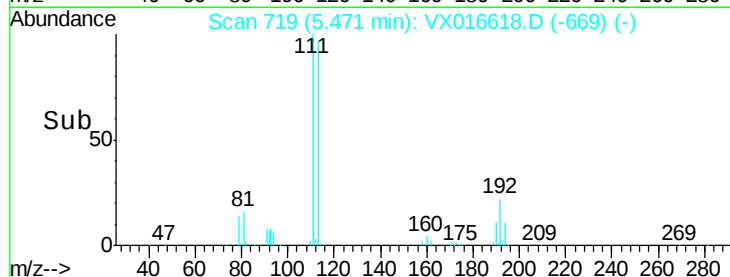
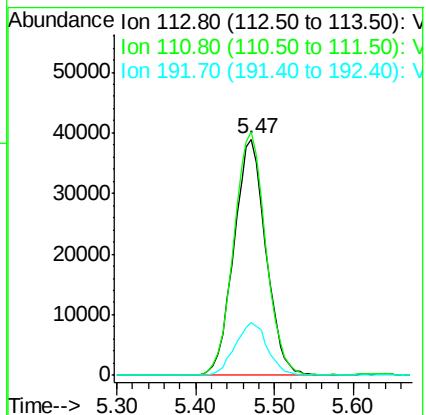
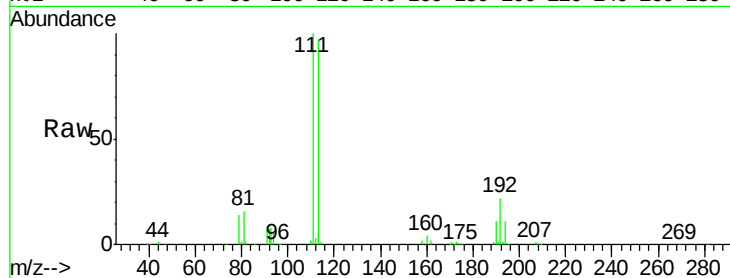
Tgt Ion:113 Resp: 109563

Ion Ratio Lower Upper

113 100

111 103.2 83.0 124.6

192 22.7 17.7 26.5



#36

1,1-Dichloropropene

Concen: 4.69 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

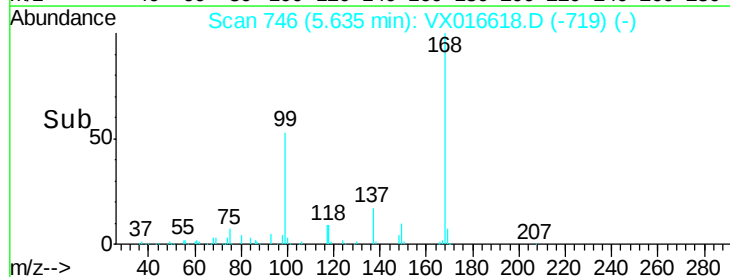
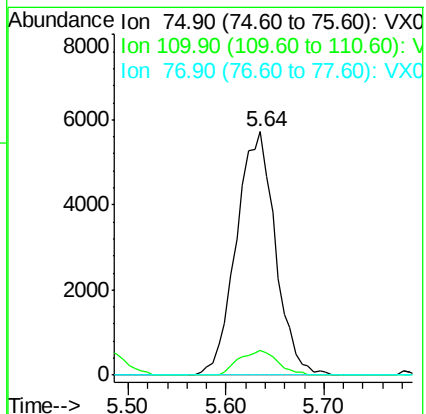
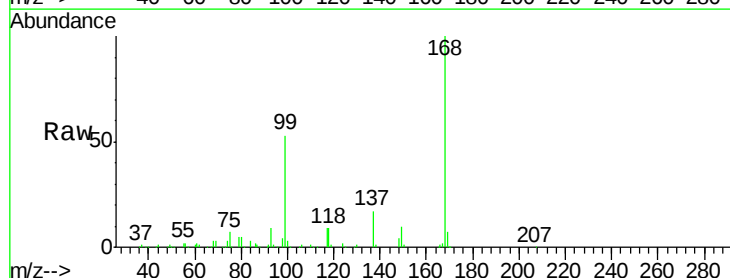
Tgt Ion: 75 Resp: 15845

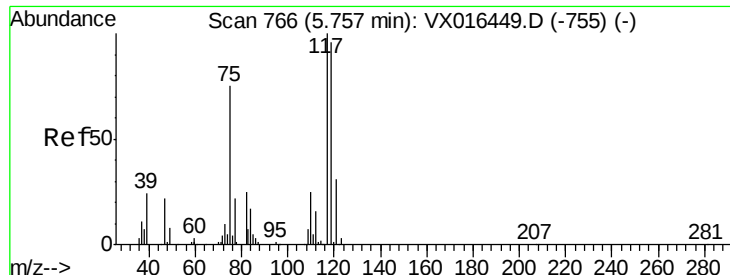
Ion Ratio Lower Upper

75 100

110 10.1 17.4 52.3#

77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.09 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

LF012MW147-200602

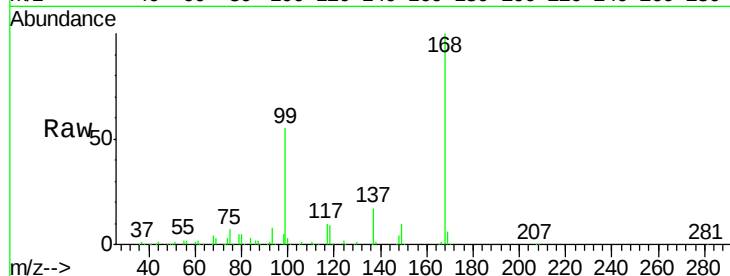
Tgt Ion:117 Resp: 21623

Ion Ratio Lower Upper

117 100

119 4.4 76.3 114.5#

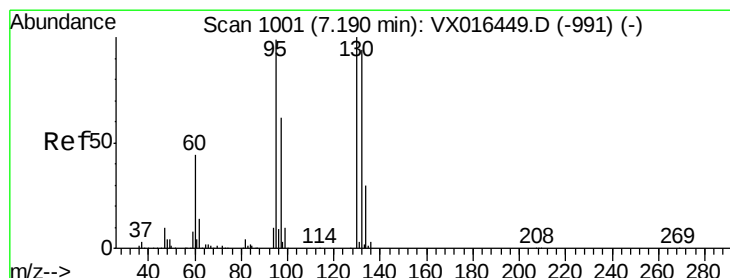
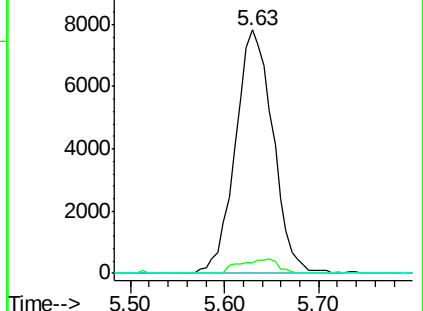
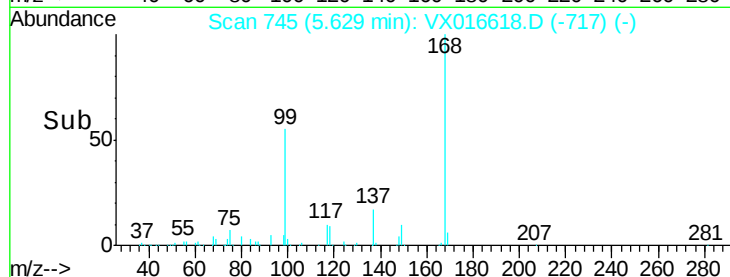
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.34 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX016618.D

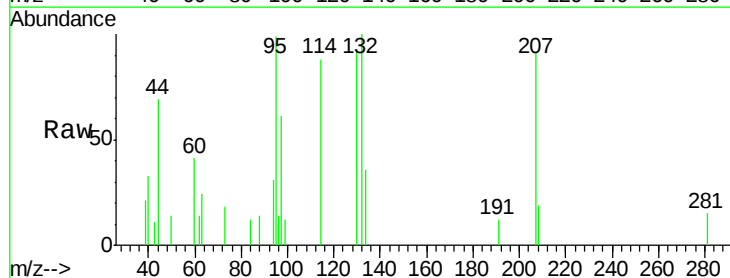
Acq: 05 Jun 2020 17:48

Tgt Ion:130 Resp: 1089

Ion Ratio Lower Upper

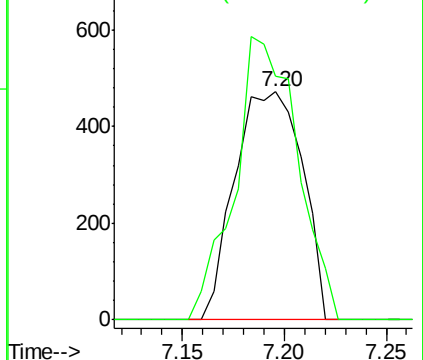
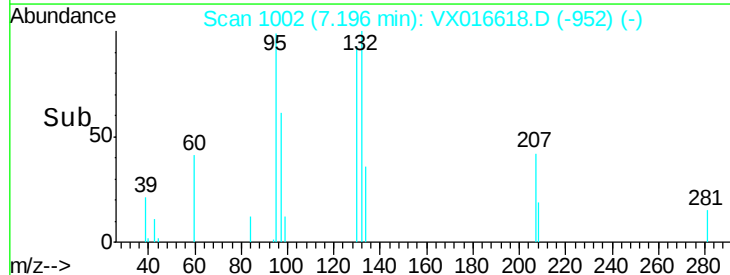
130 100

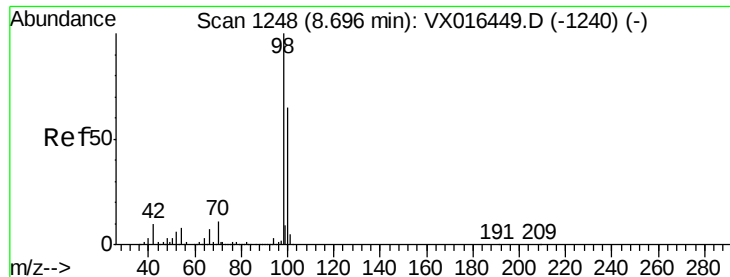
95 106.6 0.0 198.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 52.39 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

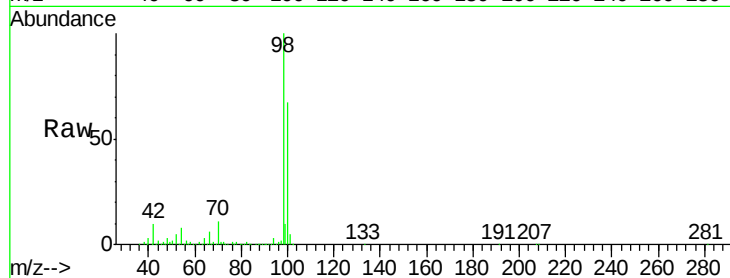
LF012MW147-200602

Tgt Ion: 98 Resp: 447991

Ion Ratio Lower Upper

98 100

100 66.4 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

300000

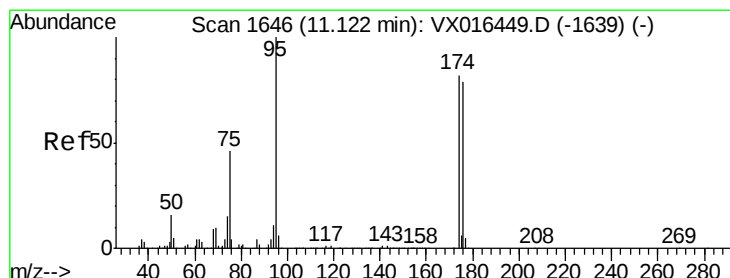
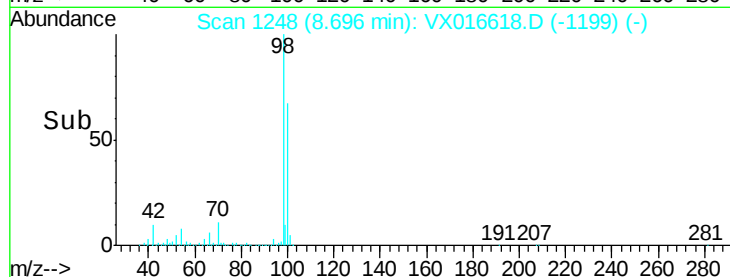
200000

100000

0

Time-->

8.60 8.65 8.70 8.75



#62

4-Bromofluorobenzene

Concen: 55.15 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

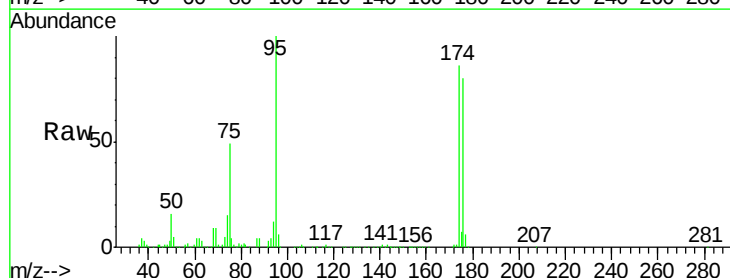
Tgt Ion: 95 Resp: 182207

Ion Ratio Lower Upper

95 100

174 85.0 0.0 163.0

176 80.7 0.0 156.8



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

11.12

200000

150000

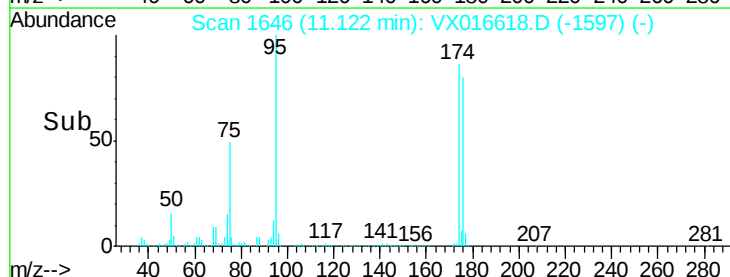
100000

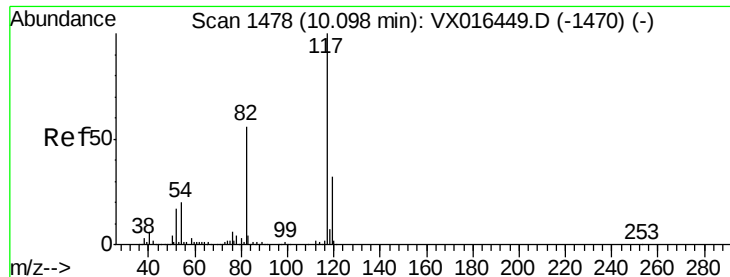
50000

0

Time-->

11.10 11.20

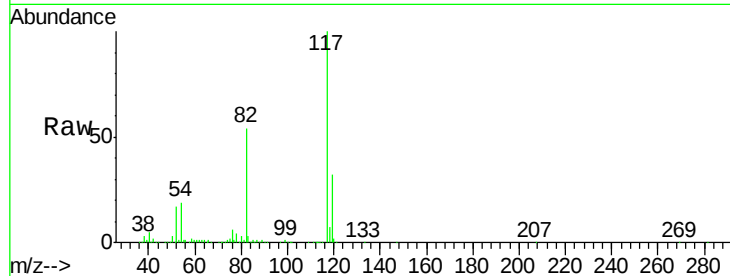




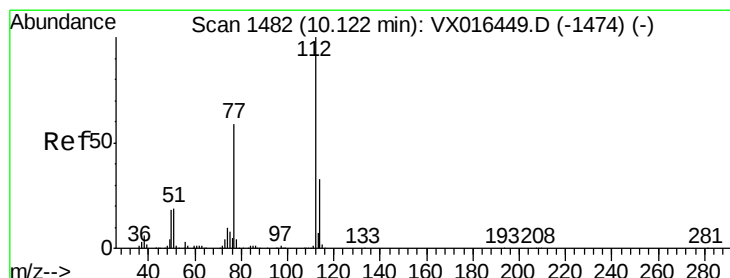
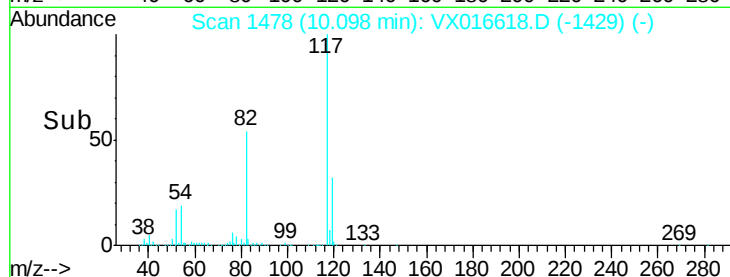
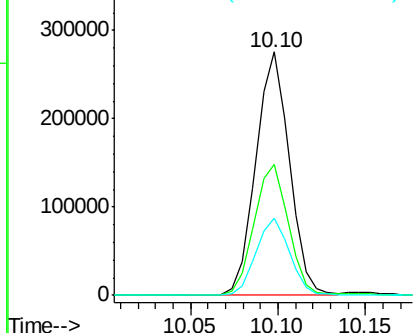
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016618.D
Acq: 05 Jun 2020 17:48

Instrument :
MSVOA_X
ClientSampleId :
LF012MW147-200602

Tgt Ion:117 Resp: 368396
Ion Ratio Lower Upper
117 100
82 53.6 45.0 67.6
119 31.8 25.8 38.8

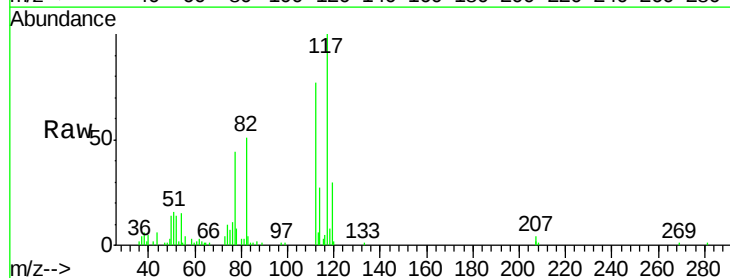


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

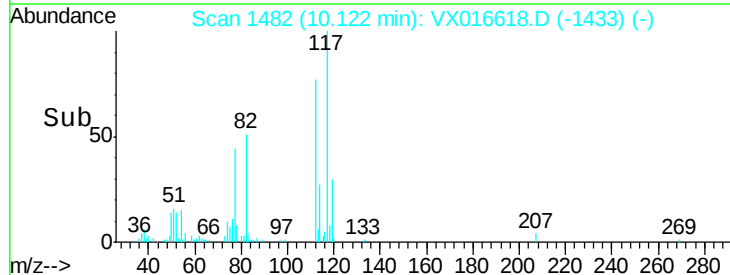
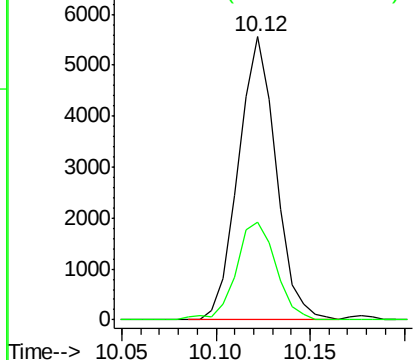


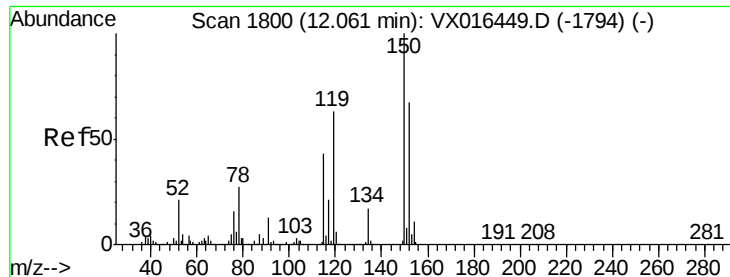
#65
Chlorobenzene
Concen: 1.03 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX016618.D
Acq: 05 Jun 2020 17:48

Tgt Ion:112 Resp: 7713
Ion Ratio Lower Upper
112 100
114 34.6 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

LF012MW147-200602

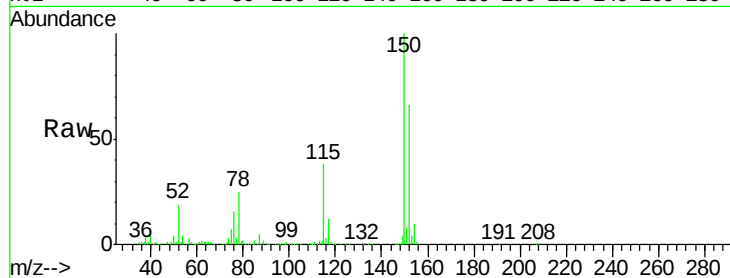
Tgt Ion:152 Resp: 194340

Ion Ratio Lower Upper

152 100

115 56.7 39.9 119.6

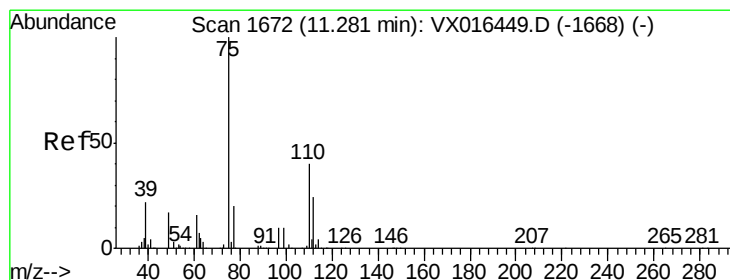
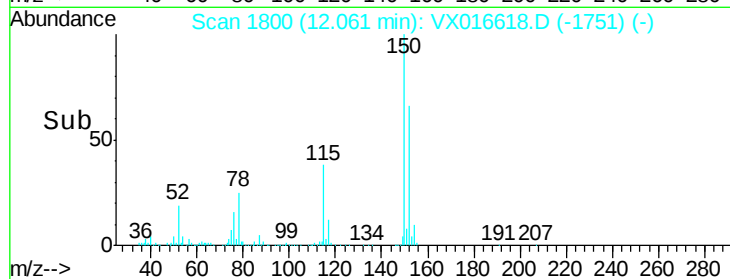
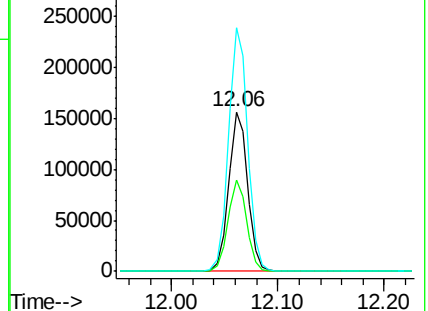
150 154.0 0.0 341.0



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



#76

1,2,3-Trichloropropane

Concen: 20.64 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016618.D

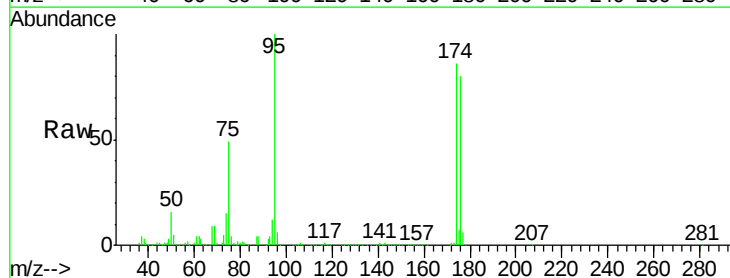
Acq: 05 Jun 2020 17:48

Tgt Ion: 75 Resp: 88179

Ion Ratio Lower Upper

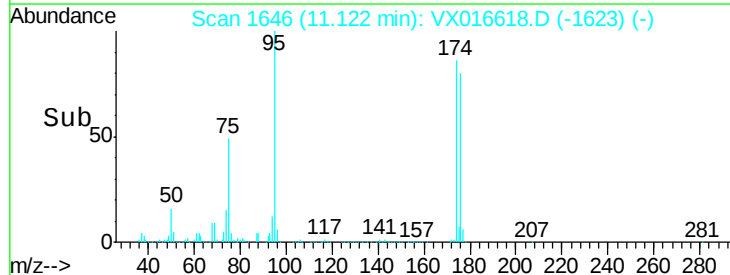
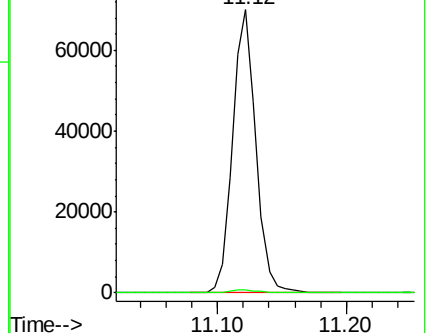
75 100

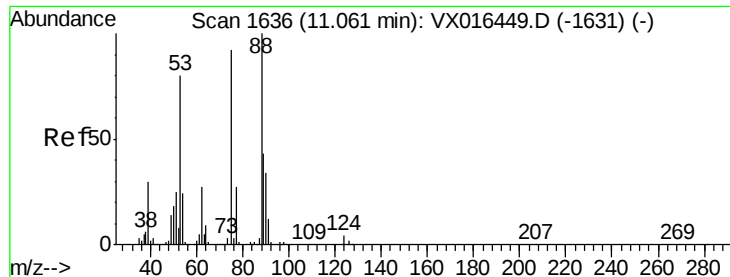
77 1.4 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 50.78 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

LF012MW147-200602

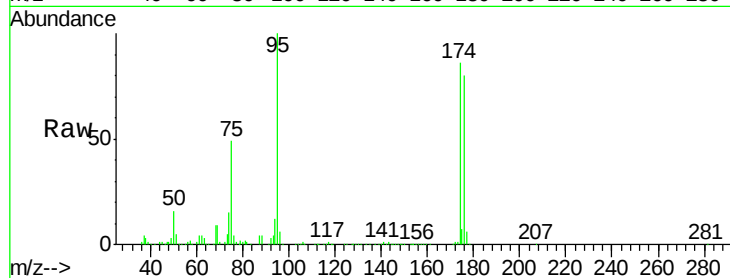
Tgt Ion: 75 Resp: 88179

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

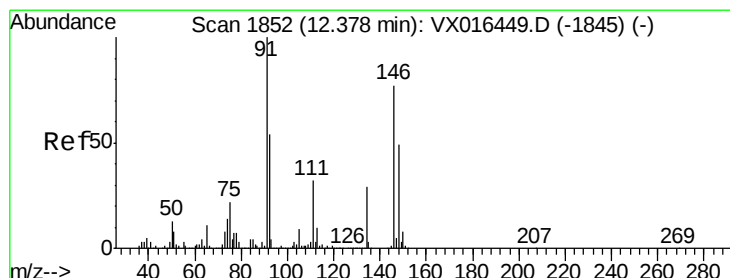
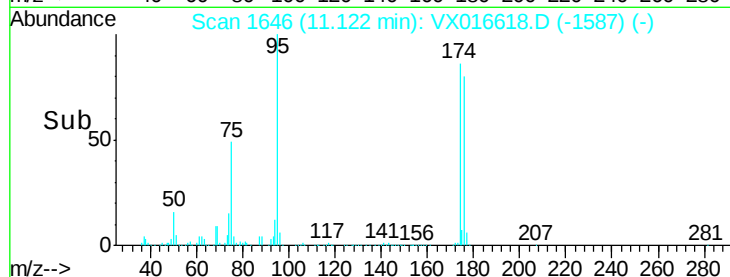
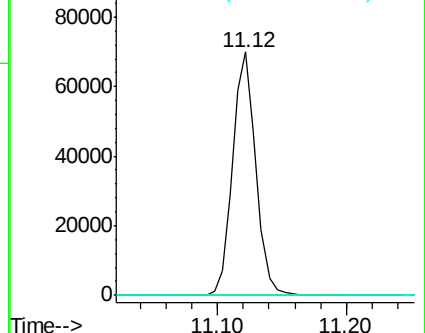
89 0.0 36.6 55.0#



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



#91

1,2-Dichlorobenzene

Concen: 0.49 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX016618.D

Acq: 05 Jun 2020 17:48

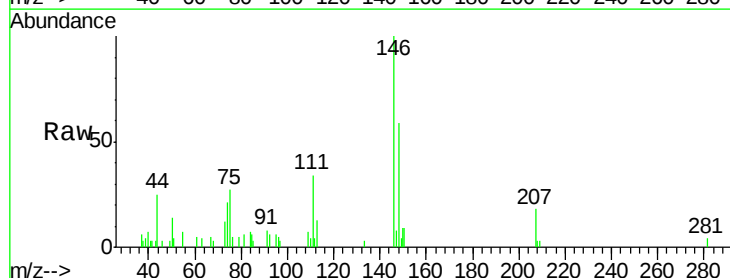
Tgt Ion: 146 Resp: 2898

Ion Ratio Lower Upper

146 100

111 39.3 21.4 64.3

148 64.4 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

