

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX060520\
 Data File : VX016616.D
 Acq On : 05 Jun 2020 17:03
 Operator : JC/SP
 Sample : L2894-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW164-200601

Quant Time: Jun 06 06:02:15 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	5.63	168	228052	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	368277	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	370445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	187833	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	138507	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	5.46	113	112814	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
50) Toluene-d8	8.70	98	452009	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	
62) 4-Bromofluorobenzene	11.12	95	181735	53.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.58%	

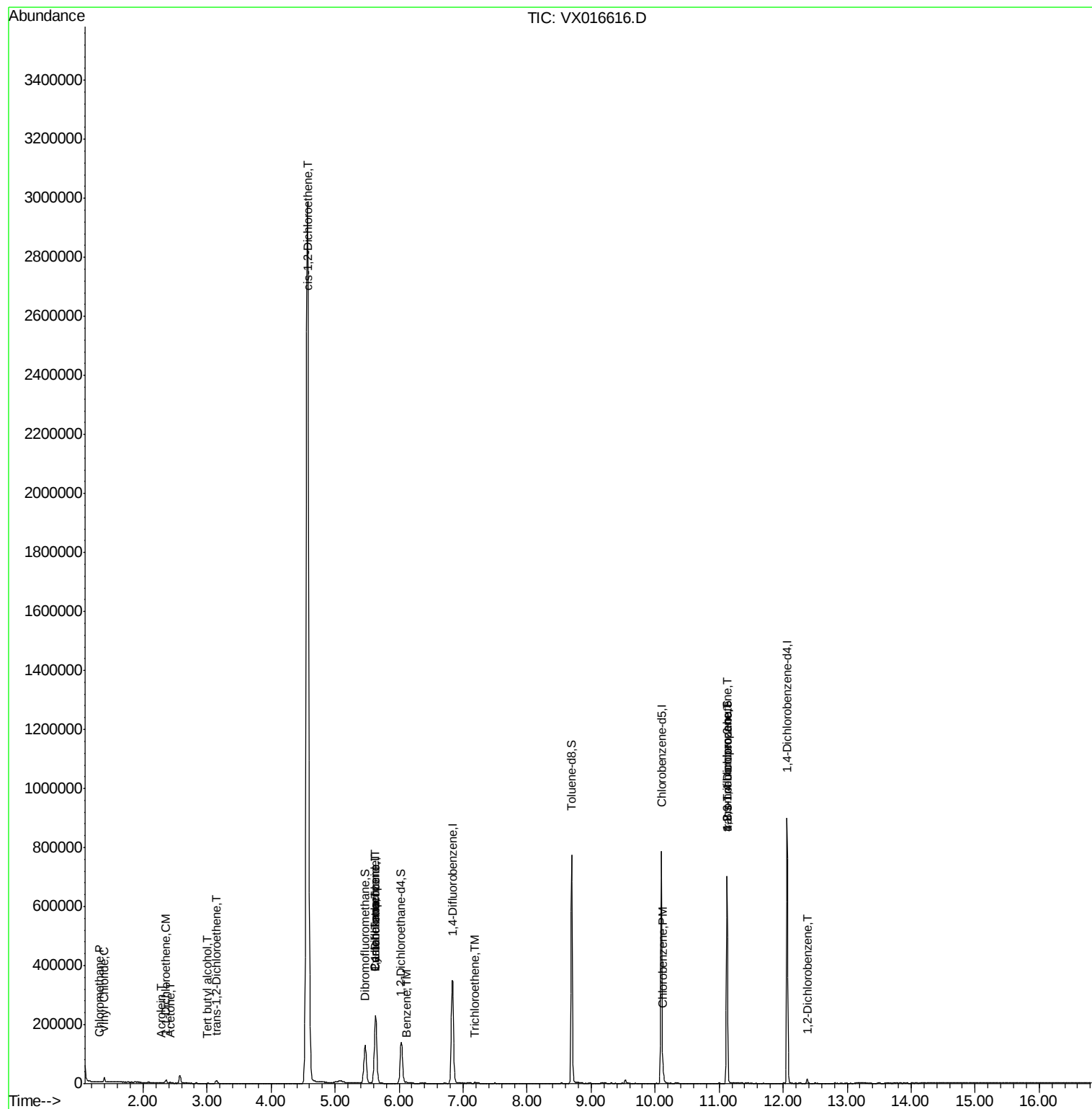
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	691	0.25	ug/l #	85
4) Vinyl Chloride	1.39	62	8916	3.11	ug/l	97
11) Tert butyl alcohol	3.00	59	252	0.35	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	2858	1.30	ug/l #	78
13) Acrolein	2.28	56	212	0.69	ug/l #	28
16) Acetone	2.42	43	2380	1.92	ug/l	96
21) trans-1,2-Dichloroethene	3.15	96	4533	1.87	ug/l #	78
27) cis-1,2-Dichloroethene	4.57	96	2010166	715.88	ug/l	89
31) Cyclohexane	5.64	56	4142	1.05	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	15873	4.55	ug/l #	51
38) Carbon Tetrachloride	5.64	117	21820	5.95	ug/l #	17
40) Benzene	6.11	78	3919	0.38	ug/l #	84
44) Trichloroethene	7.19	130	1370	0.42	ug/l	97
65) Chlorobenzene	10.12	112	19213	2.54	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	87443	21.18	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	87443	52.10	ug/l #	14
91) 1,2-Dichlorobenzene	12.38	146	5187	0.91	ug/l	96

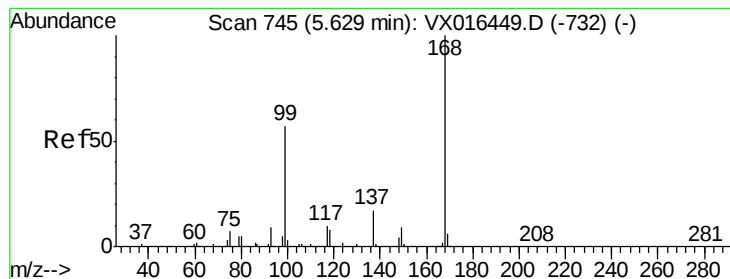
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

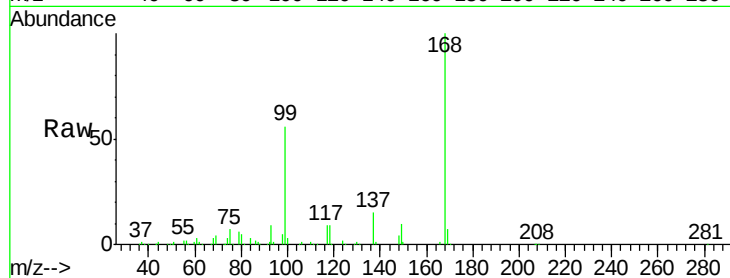
LF012RW164-200601

Tgt Ion:168 Resp: 228052

Ion Ratio Lower Upper

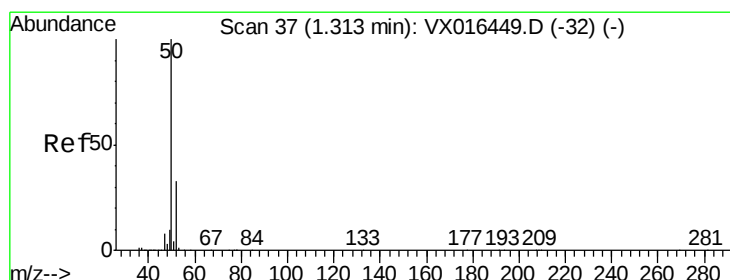
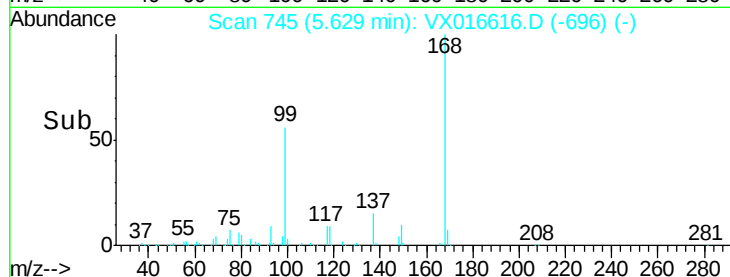
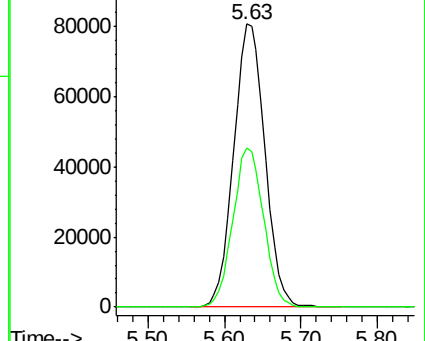
168 100

99 56.2 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016616.D

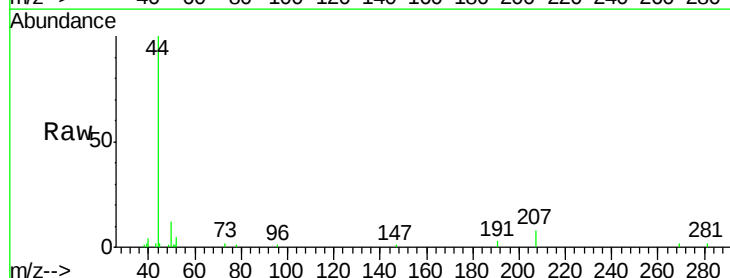
Acq: 05 Jun 2020 17:03

Tgt Ion: 50 Resp: 691

Ion Ratio Lower Upper

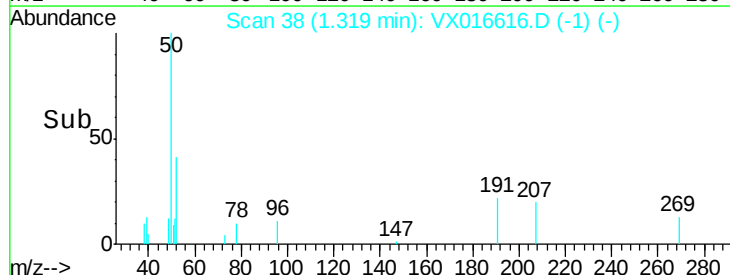
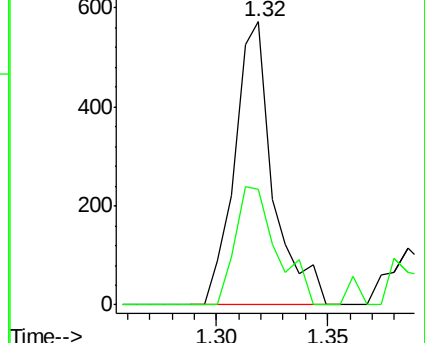
50 100

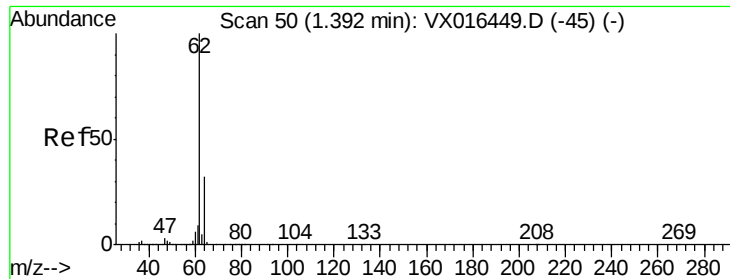
52 41.1 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 3.11 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

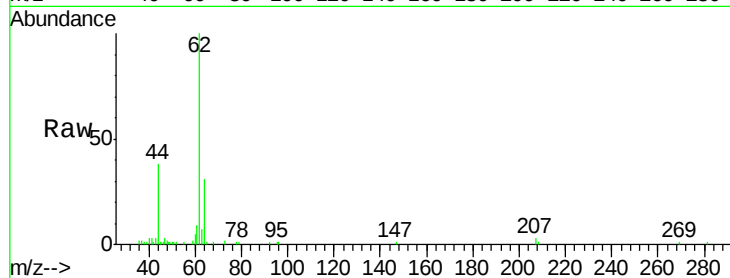
LF012RW164-200601

Tgt Ion: 62 Resp: 8916

Ion Ratio Lower Upper

62 100

64 30.8 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

10000

8000

6000

4000

2000

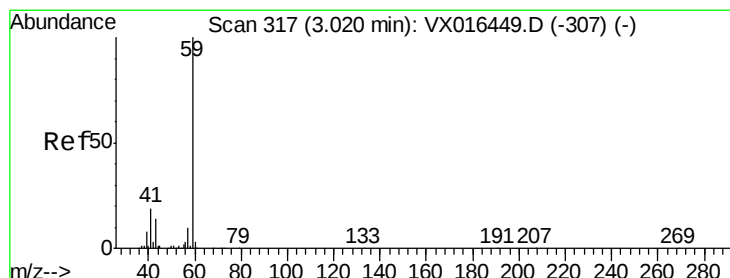
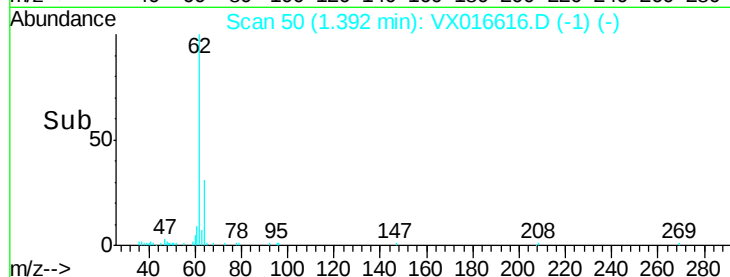
0

Time-->

1.35

1.40

1.45



#11

Tert butyl alcohol

Concen: 0.35 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016616.D

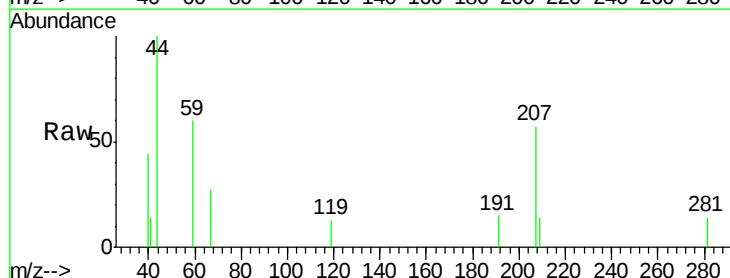
Acq: 05 Jun 2020 17:03

Tgt Ion: 59 Resp: 252

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

3.00

300

250

200

150

100

50

0

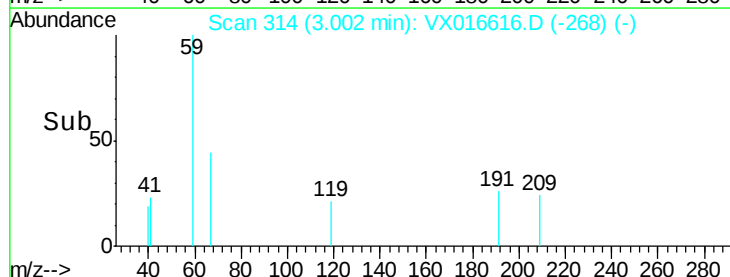
Time-->

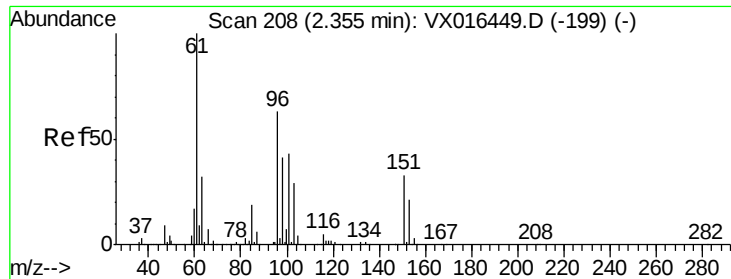
2.96

2.98

3.00

3.02





#12

1,1-Dichloroethene

Concen: 1.30 ug/l

RT: 2.36 min Scan# 208

Delta R.T. 0.00 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-200601

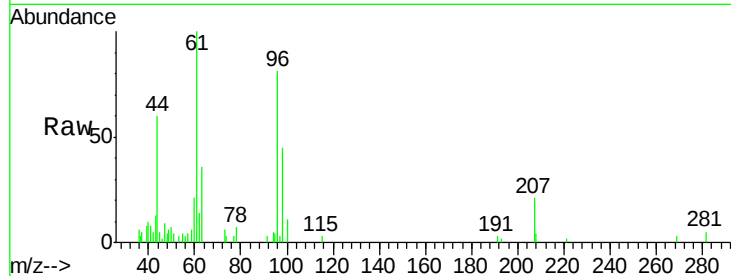
Tgt Ion: 96 Resp: 2858

Ion Ratio Lower Upper

96 100

61 123.3 126.6 189.8#

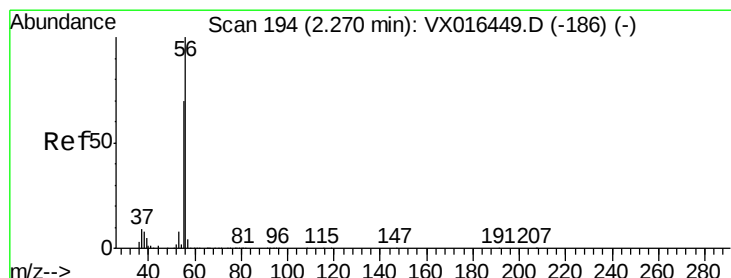
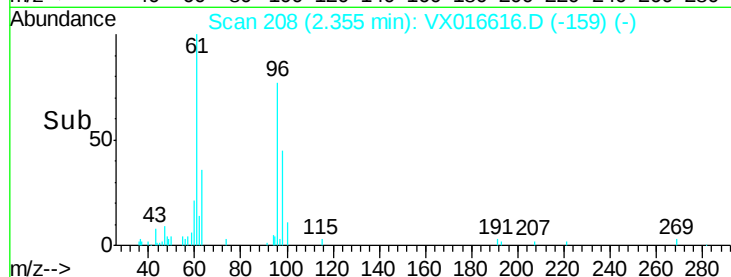
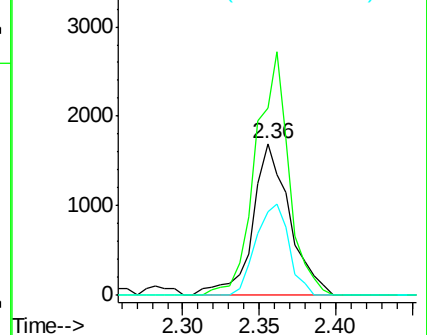
98 55.4 51.3 76.9



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



#13

Acrolein

Concen: 0.69 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX016616.D

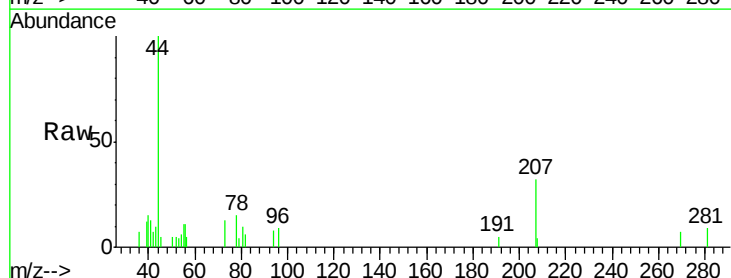
Acq: 05 Jun 2020 17:03

Tgt Ion: 56 Resp: 212

Ion Ratio Lower Upper

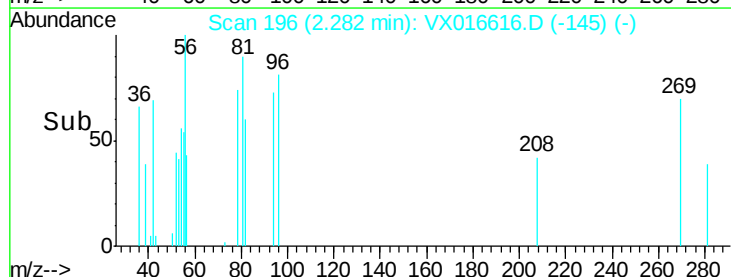
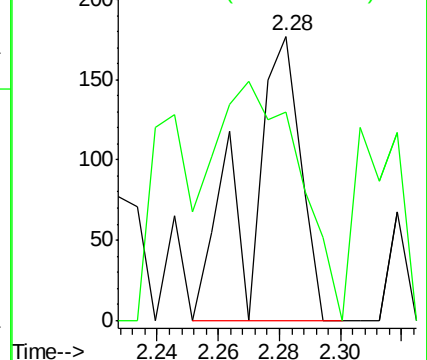
56 100

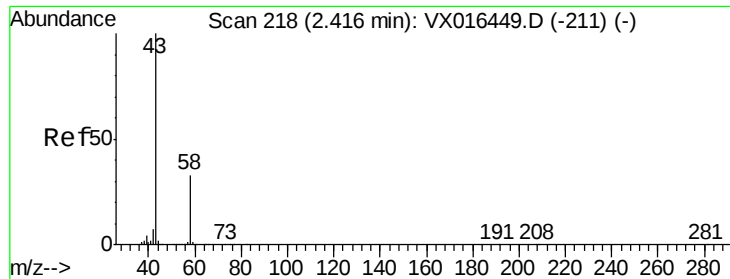
55 133.5 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

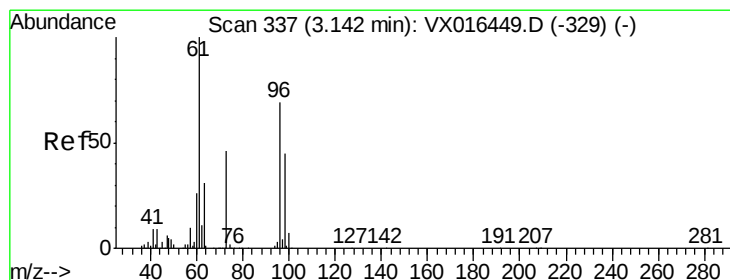
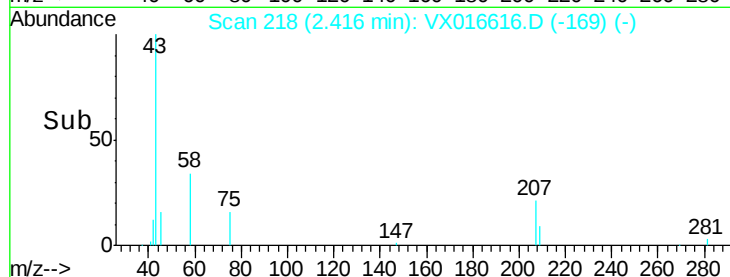
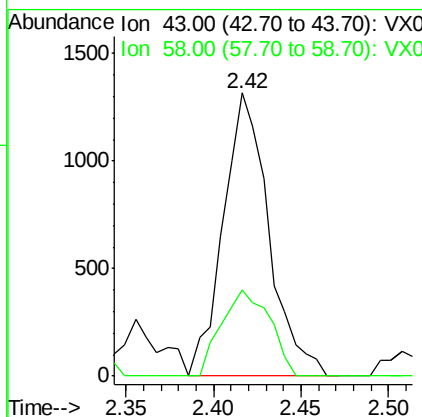
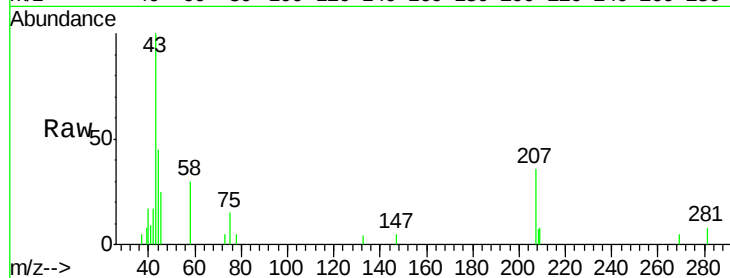




#16
Acetone
Concen: 1.92 ug/l
RT: 2.42 min Scan# 218
Delta R.T. 0.00 min
Lab File: VX016616.D
Acq: 05 Jun 2020 17:03

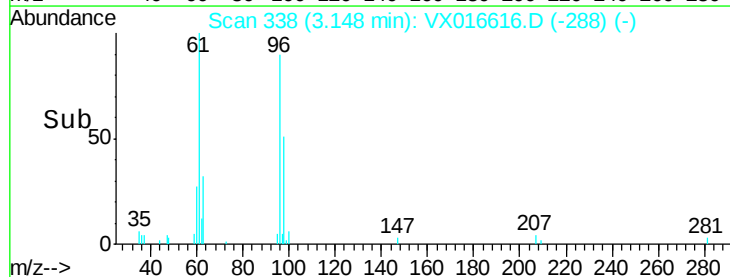
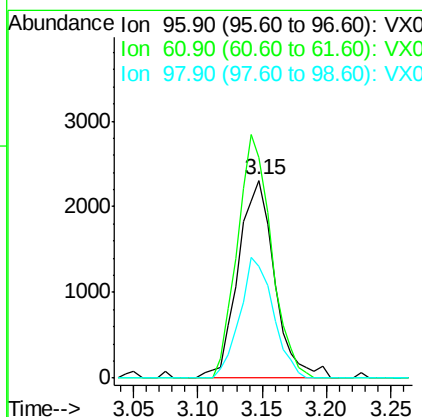
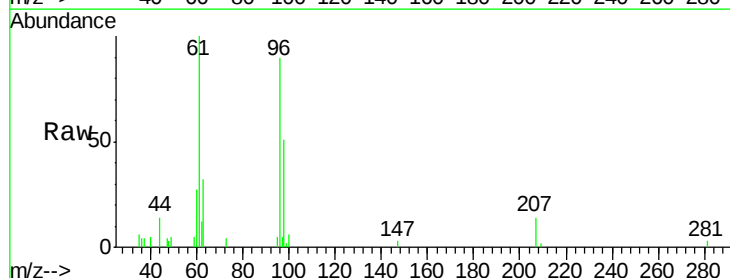
Instrument :
MSVOA_X
ClientSampleId :
LF012RW164-200601

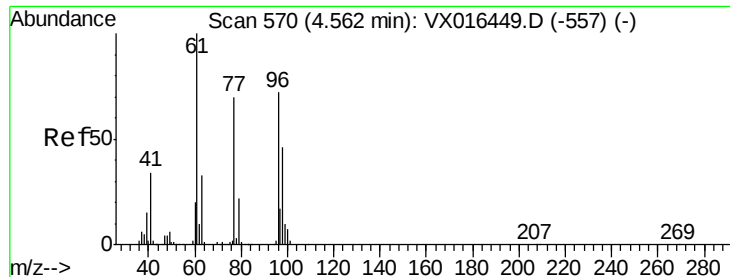
Tgt Ion: 43 Resp: 2380
Ion Ratio Lower Upper
43 100
58 30.5 26.1 39.1



#21
trans-1,2-Dichloroethene
Concen: 1.87 ug/l
RT: 3.15 min Scan# 338
Delta R.T. 0.01 min
Lab File: VX016616.D
Acq: 05 Jun 2020 17:03

Tgt Ion: 96 Resp: 4533
Ion Ratio Lower Upper
96 100
61 111.2 115.3 172.9#
98 56.3 51.9 77.9



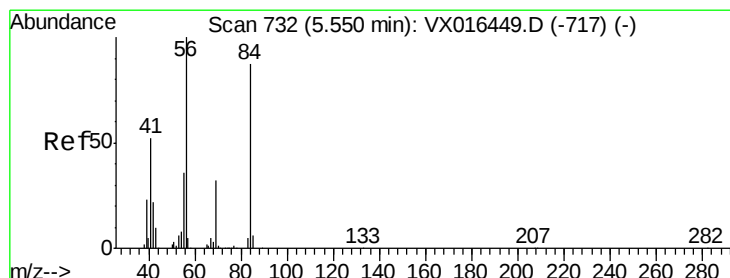
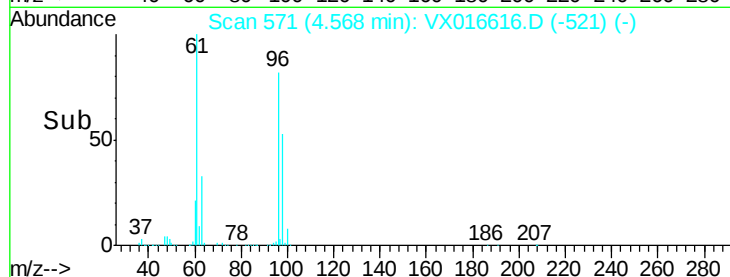
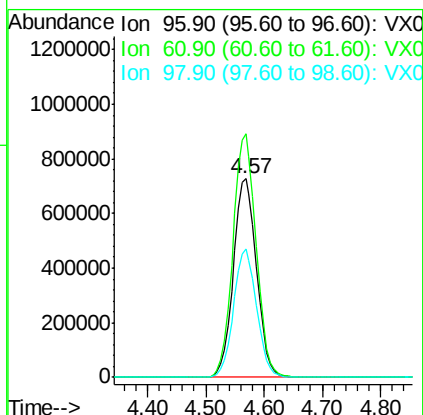
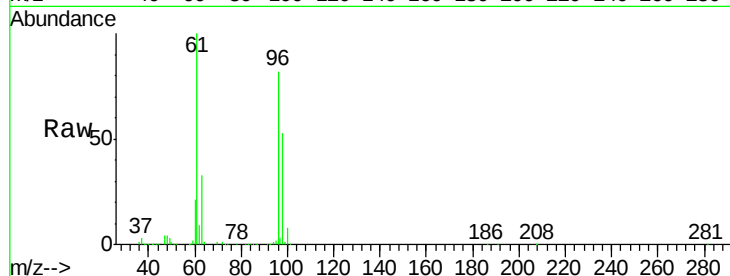


#27

cis-1,2-Dichloroethene
Concen: 715.88 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX016616.D
Acq: 05 Jun 2020 17:03

Instrument :
MSVOA_X
ClientSampleId :
LF012RW164-200601

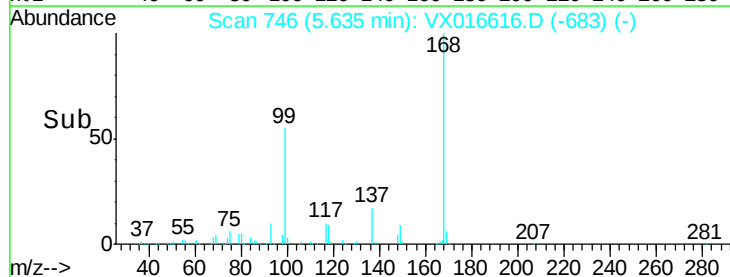
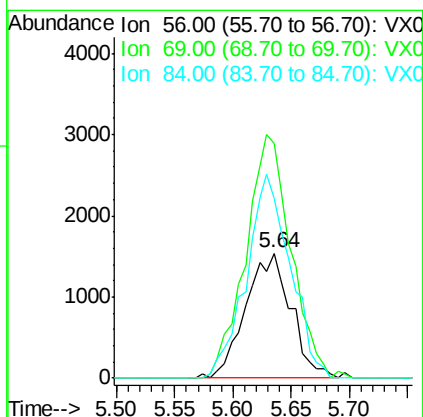
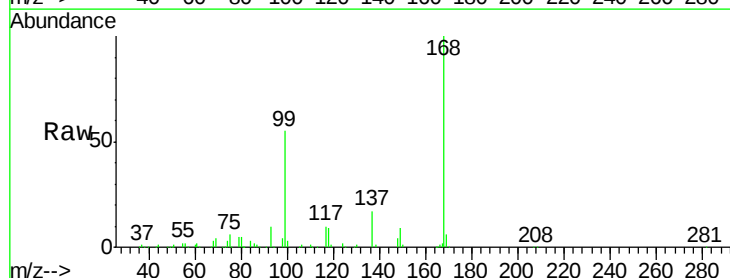
Tgt Ion: 96 Resp: 2010166
Ion Ratio Lower Upper
96 100
61 122.5 0.0 284.6
98 64.1 0.0 127.2

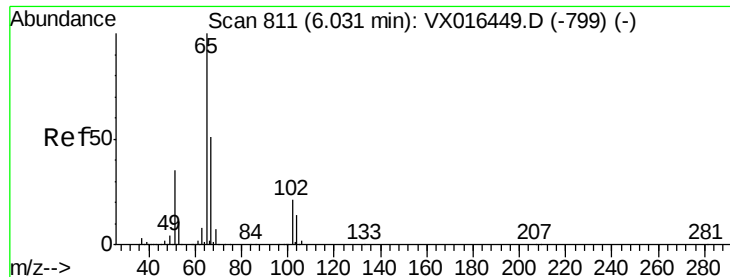


#31

Cyclohexane
Concen: 1.05 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016616.D
Acq: 05 Jun 2020 17:03

Tgt Ion: 56 Resp: 4142
Ion Ratio Lower Upper
56 100
69 188.6 25.7 38.5#
84 144.2 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 48.91 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

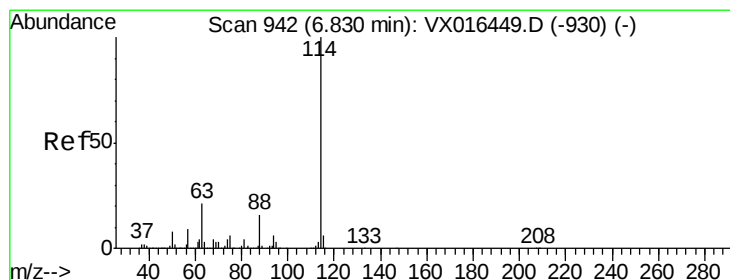
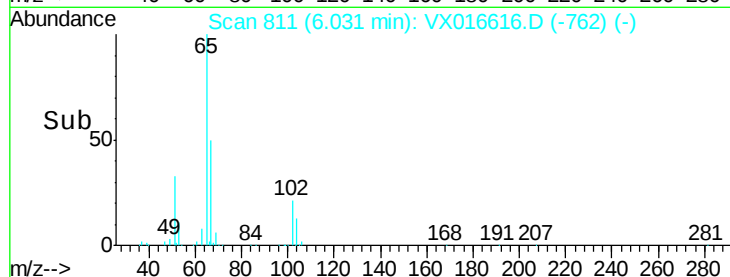
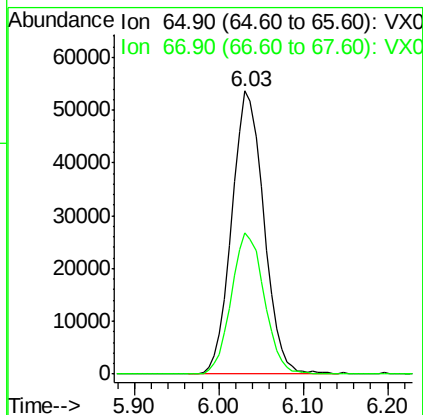
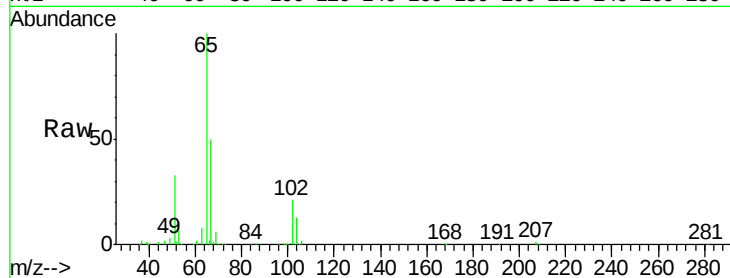
LF012RW164-200601

Tgt Ion: 65 Resp: 138507

Ion Ratio Lower Upper

65 100

67 51.0 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: VX016616.D

Acq: 05 Jun 2020 17:03

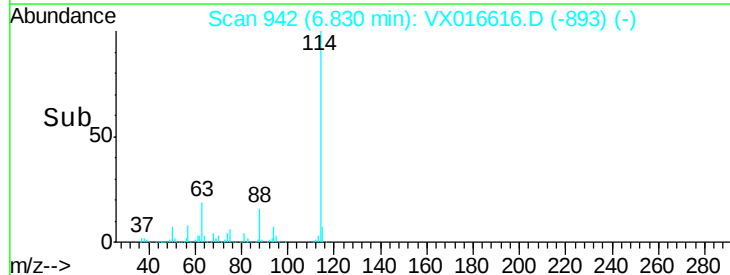
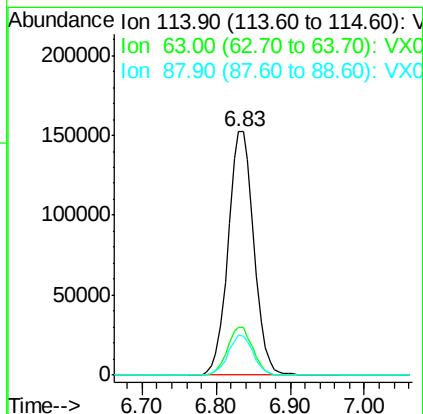
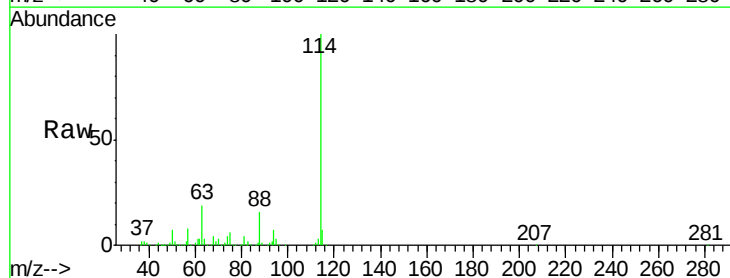
Tgt Ion: 114 Resp: 368277

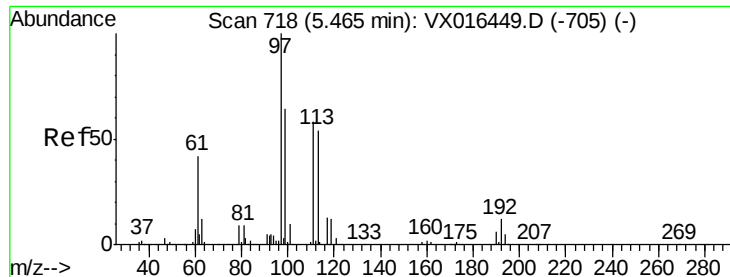
Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

88 16.5 0.0 32.8

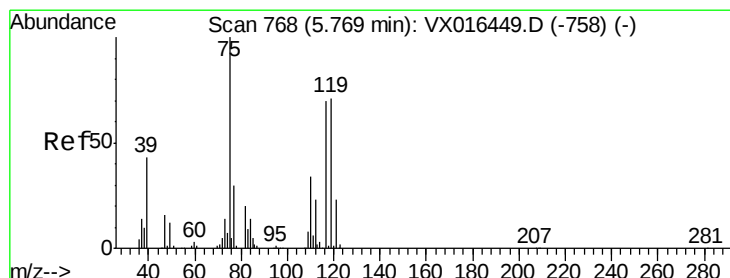
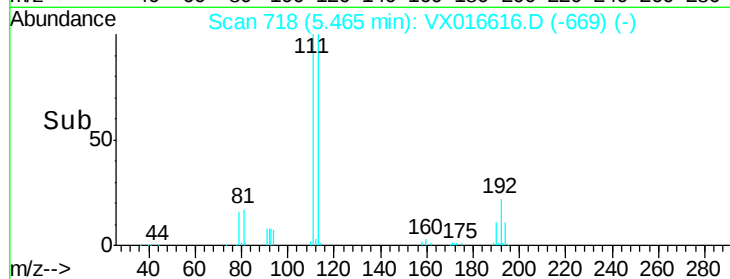
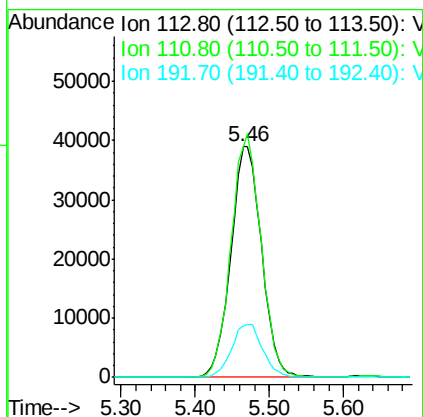
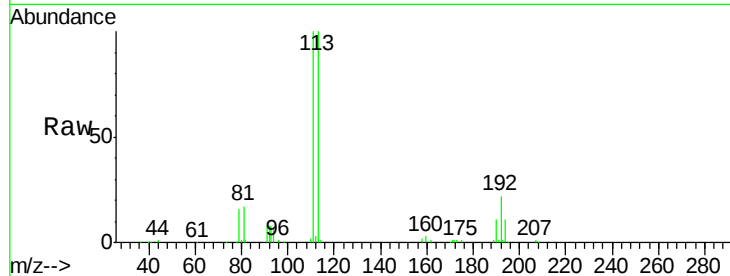




#35
 Dibromofluoromethane
 Concen: 49.75 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VX016616.D
 Acq: 05 Jun 2020 17:03

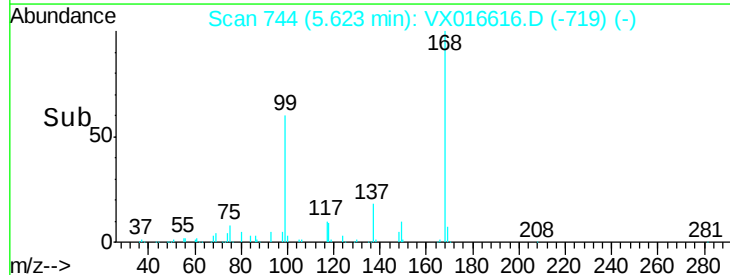
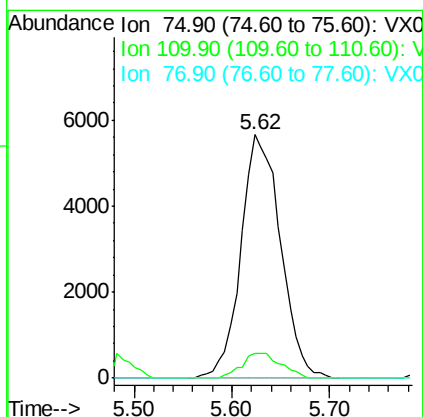
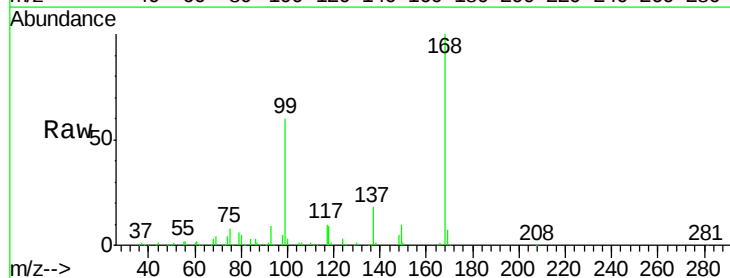
Instrument :
 MSVOA_X
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 LF012RW164-200601

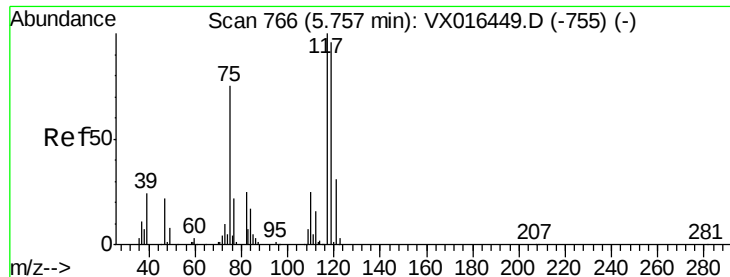
Tgt Ion:113 Resp: 112814
 Ion Ratio Lower Upper
 113 100
 111 102.8 83.0 124.6
 192 23.2 17.7 26.5



#36
 1,1-Dichloropropene
 Concen: 4.55 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX016616.D
 Acq: 05 Jun 2020 17:03

Tgt Ion: 75 Resp: 15873
 Ion Ratio Lower Upper
 75 100
 110 10.2 17.4 52.3#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 5.95 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-200601

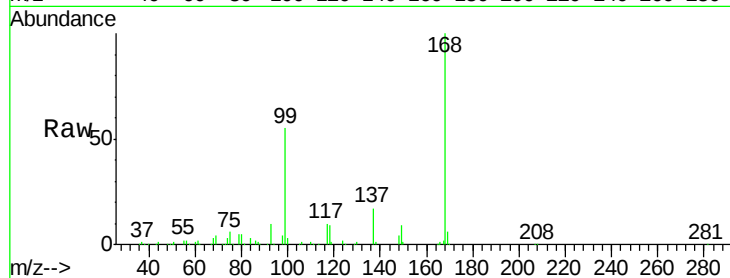
Tgt Ion:117 Resp: 21820

Ion Ratio Lower Upper

117 100

119 5.7 76.3 114.5#

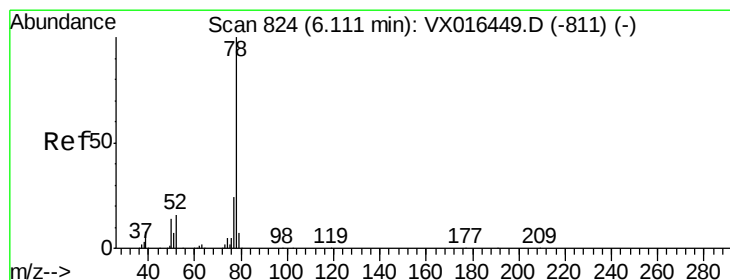
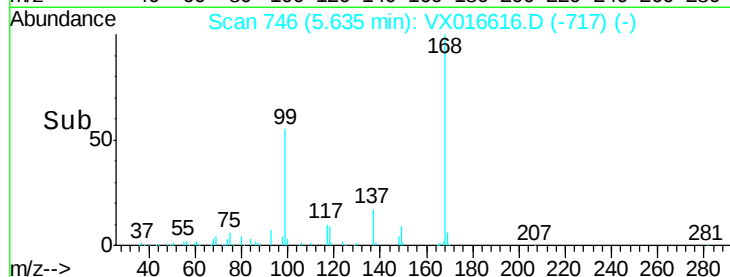
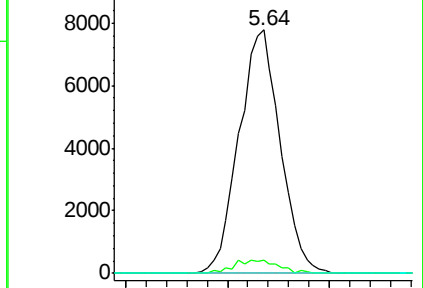
121 0.0 24.6 37.0#



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



#40

Benzene

Concen: 0.38 ug/l

RT: 6.11 min Scan# 824

Delta R.T. 0.00 min

Lab File: VX016616.D

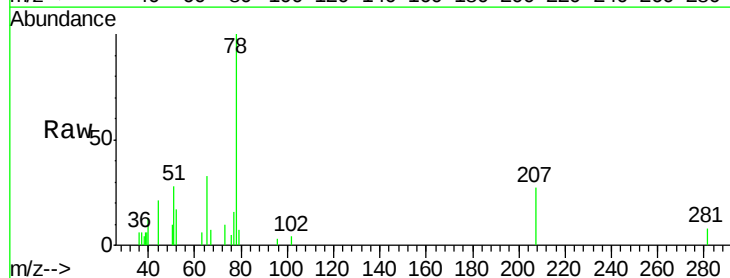
Acq: 05 Jun 2020 17:03

Tgt Ion: 78 Resp: 3919

Ion Ratio Lower Upper

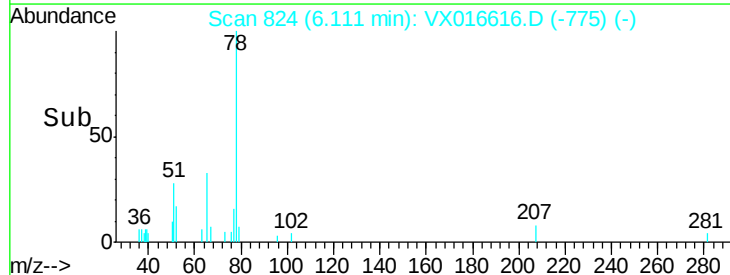
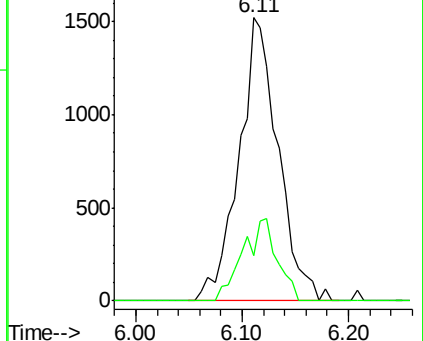
78 100

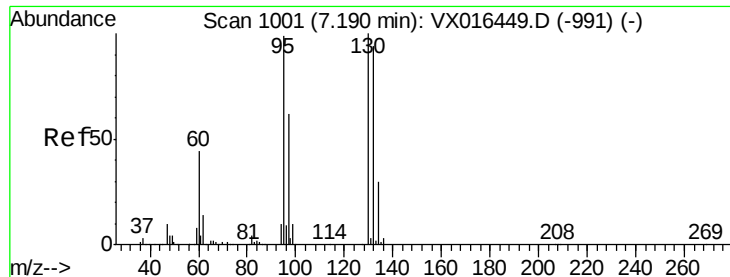
77 15.8 18.9 28.3#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.42 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

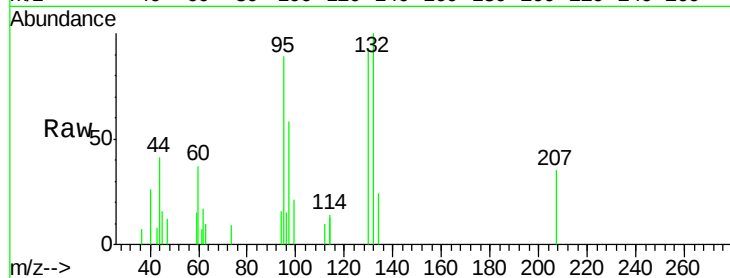
LF012RW164-200601

Tgt Ion:130 Resp: 1370

Ion Ratio Lower Upper

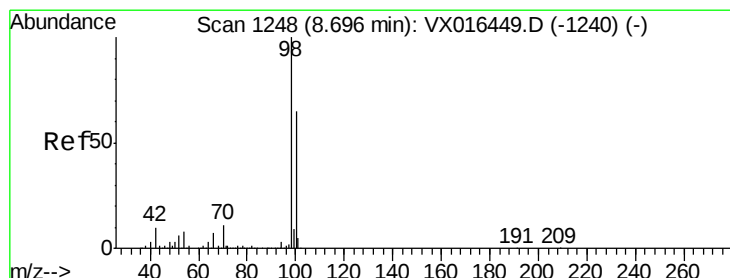
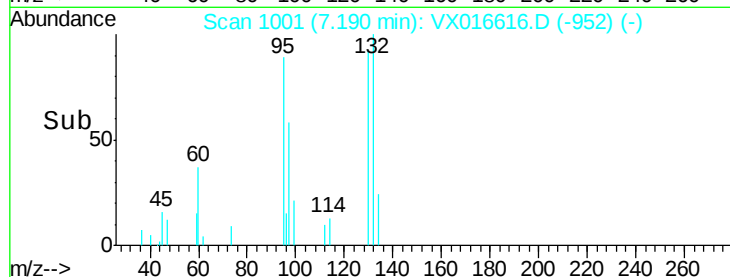
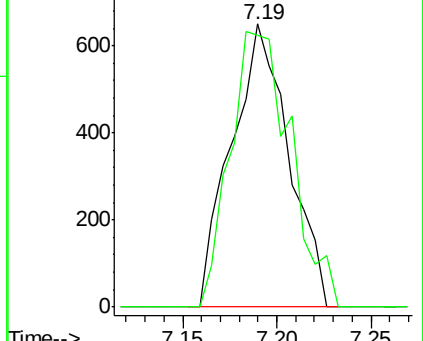
130 100

95 96.0 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: 51.21 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016616.D

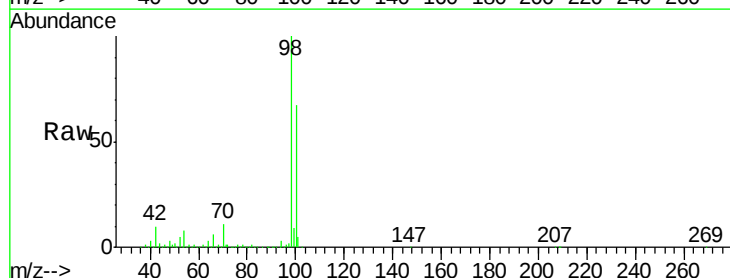
Acq: 05 Jun 2020 17:03

Tgt Ion: 98 Resp: 452009

Ion Ratio Lower Upper

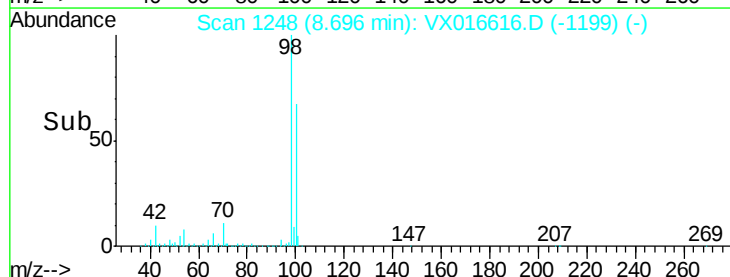
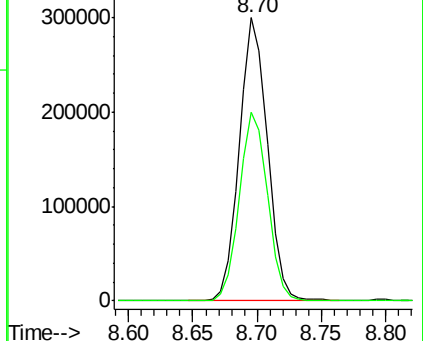
98 100

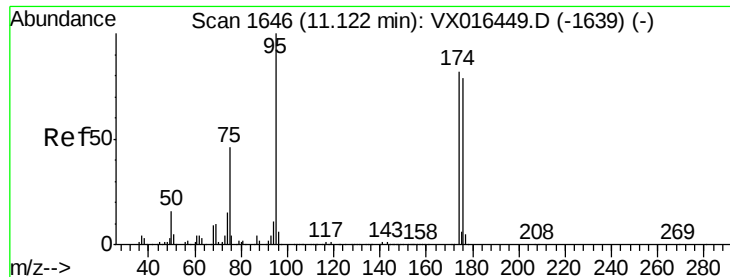
100 66.7 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.29 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-200601

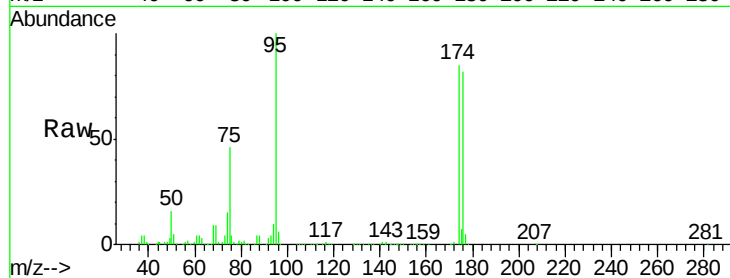
Tgt Ion: 95 Resp: 181735

Ion Ratio Lower Upper

95 100

174 85.8 0.0 163.0

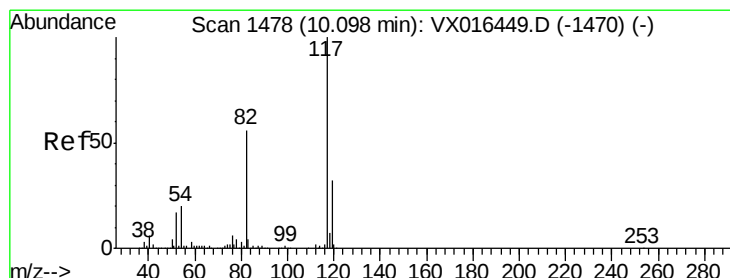
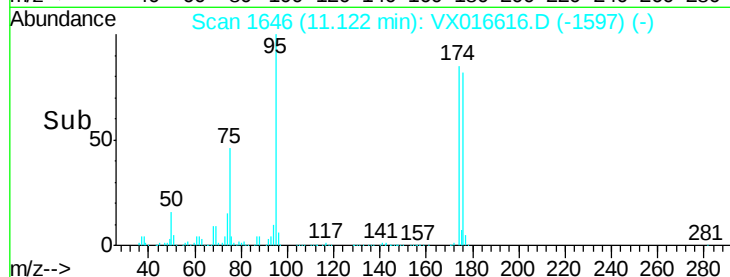
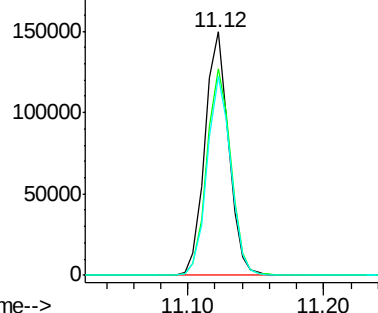
176 81.7 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX016616.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016616.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016616.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

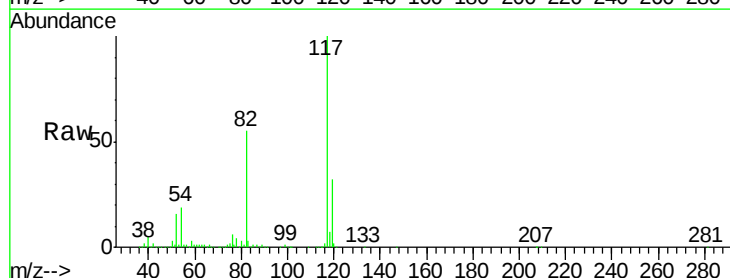
Tgt Ion: 117 Resp: 370445

Ion Ratio Lower Upper

117 100

82 55.4 45.0 67.6

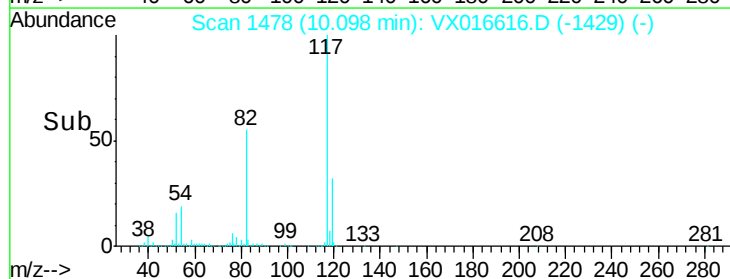
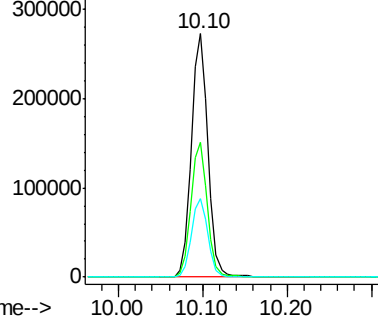
119 32.3 25.8 38.8

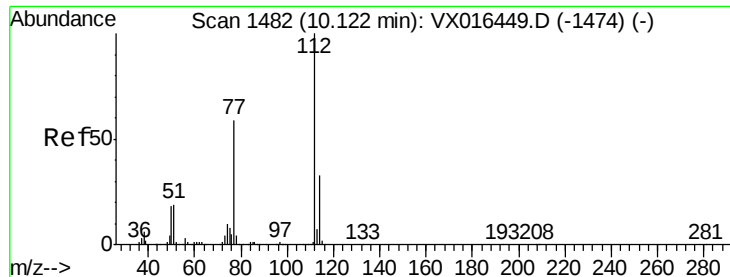


Abundance Ion 116.90 (116.60 to 117.60): VX016616.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016616.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016616.D (-1429) (-)





#65

Chlorobenzene

Concen: 2.54 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

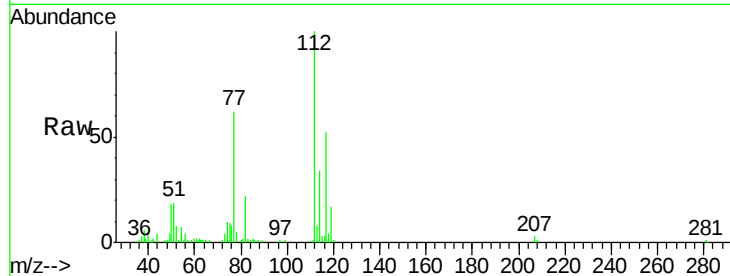
LF012RW164-200601

Tgt Ion:112 Resp: 19213

Ion Ratio Lower Upper

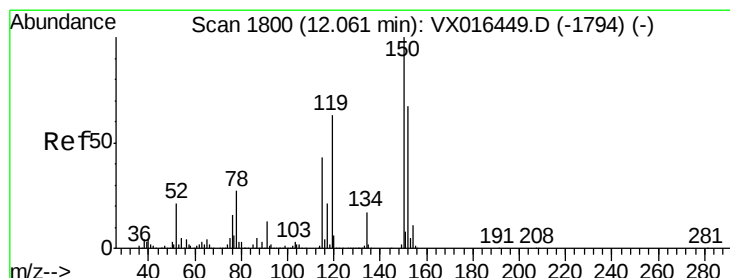
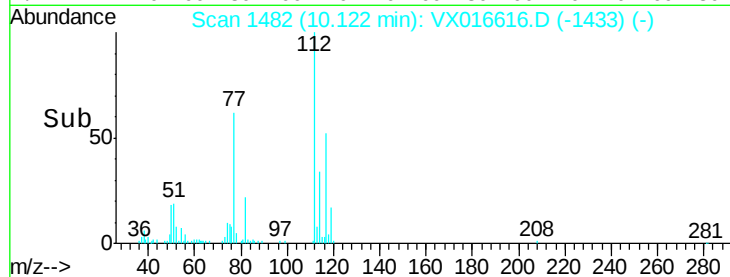
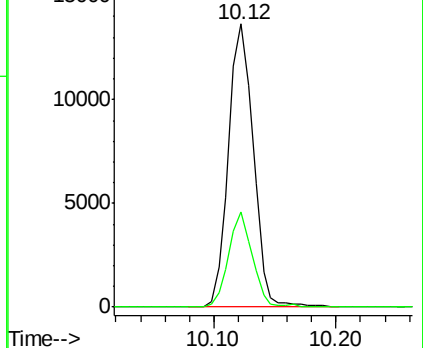
112 100

114 33.7 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: VX016616.D

Acq: 05 Jun 2020 17:03

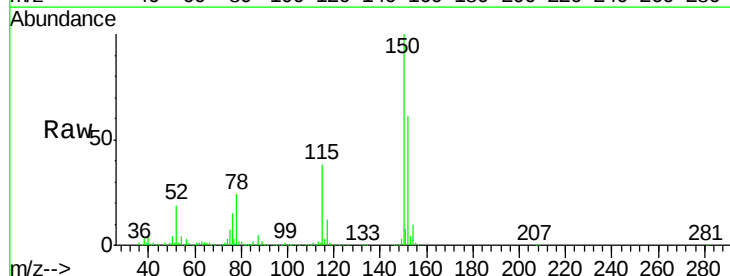
Tgt Ion:152 Resp: 187833

Ion Ratio Lower Upper

152 100

115 59.2 39.9 119.6

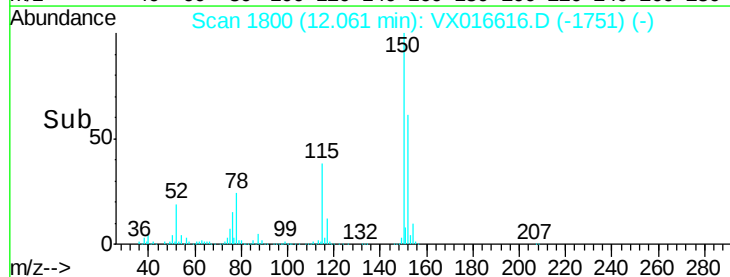
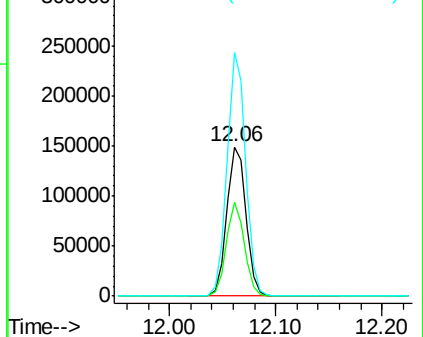
150 158.3 0.0 341.0

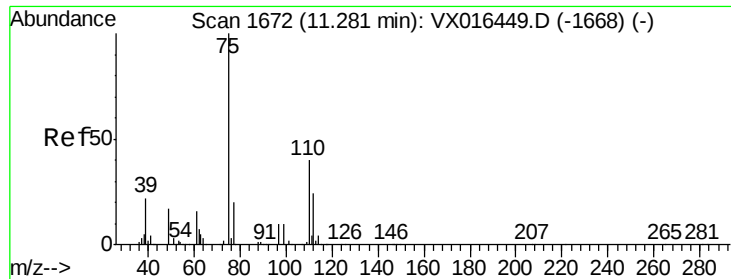


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.18 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

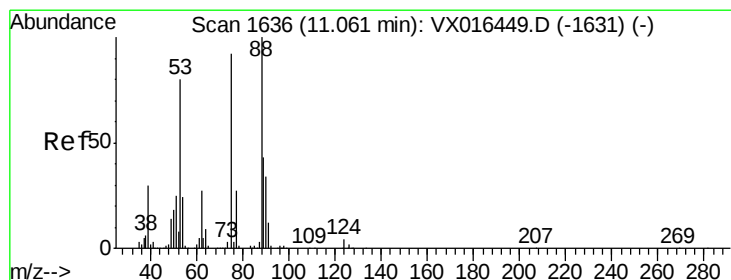
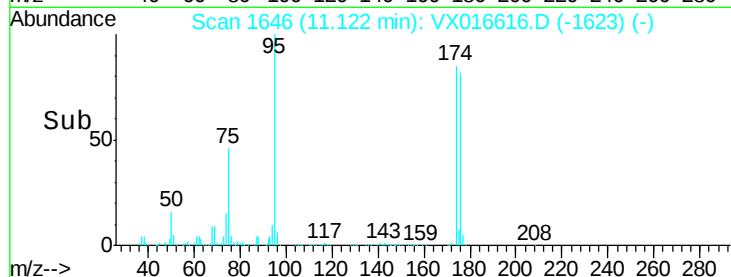
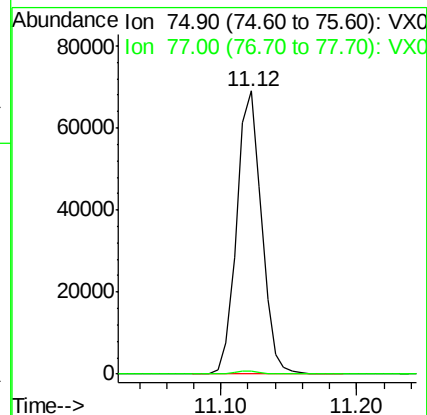
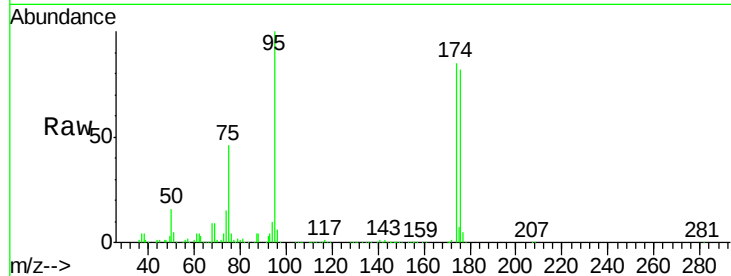
LF012RW164-200601

Tgt Ion: 75 Resp: 87443

Ion Ratio Lower Upper

75 100

77 1.2 21.3 63.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 52.10 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

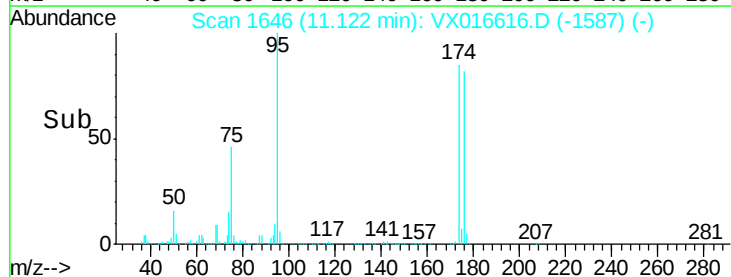
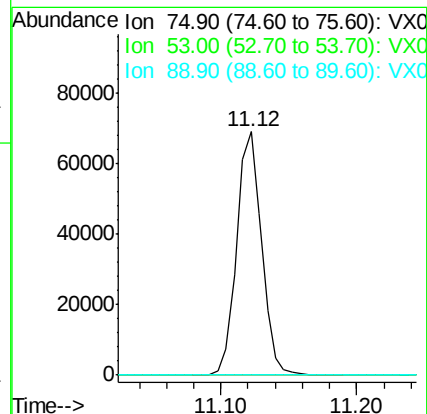
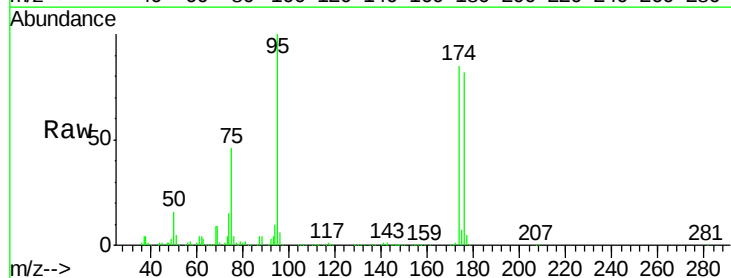
Tgt Ion: 75 Resp: 87443

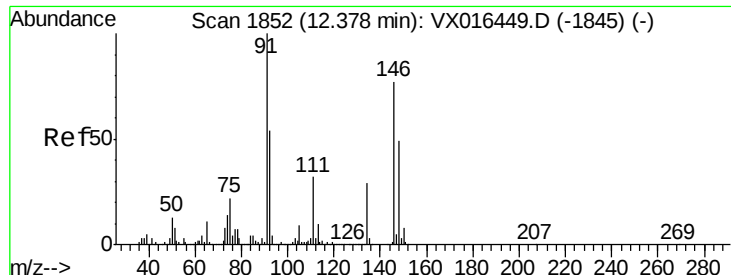
Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

89 0.0 36.6 55.0#





#91

1,2-Dichlorobenzene

Concen: 0.91 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX016616.D

Acq: 05 Jun 2020 17:03

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-200601

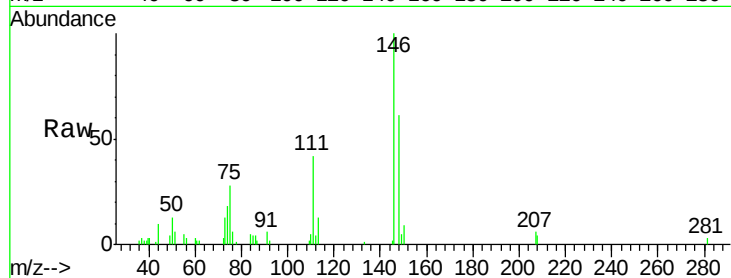
Tgt Ion:146 Resp: 5187

Ion Ratio Lower Upper

146 100

111 44.3 21.4 64.3

148 59.9 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

