

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061720\
 Data File : VX016825.D
 Acq On : 17 Jun 2020 18:28
 Operator : JC/SP
 Sample : L3032-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF015MW001-200615

Quant Time: Jun 18 00:46:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061520W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 16 02:02:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	246773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	396620	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	401832	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	205016	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	139028	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
35) Dibromofluoromethane	5.47	113	118370	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
50) Toluene-d8	8.70	98	473942	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
62) 4-Bromofluorobenzene	11.12	95	222292	64.41	ug/l	0.00
Spiked Amount			Recovery	=	128.82%	

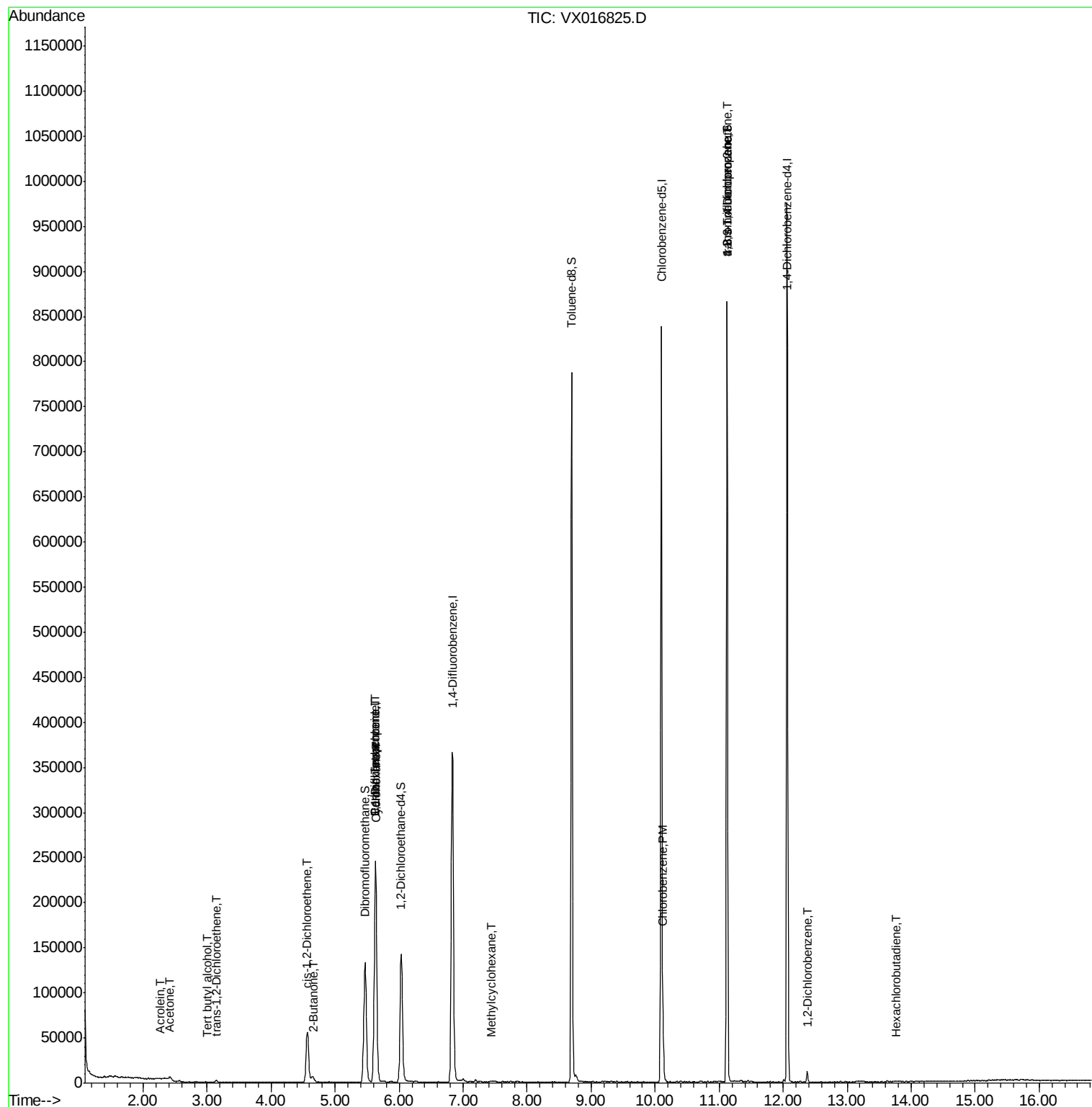
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	171	0.245	ug/l #	73
13) Acrolein	2.28	56	337	3.430	ug/l #	13
16) Acetone	2.41	43	2576	2.046	ug/l #	84
21) trans-1,2-Dichloroethene	3.15	96	1091	0.421	ug/l #	76
25) 2-Butanone	4.66	43	506	0.267	ug/l #	44
27) cis-1,2-Dichloroethene	4.56	96	38413	12.967	ug/l	91
31) Cyclohexane	5.64	56	4124	1.834	ug/l #	21
36) 1,1-Dichloropropene	5.64	75	16372	4.671	ug/l #	50
38) Carbon Tetrachloride	5.63	117	22927	5.760	ug/l #	17
39) Methylcyclohexane	7.44	83	110	0.980	ug/l	96
65) Chlorobenzene	10.12	112	22262	2.730	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	107571	24.950	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	107571	62.812	ug/l #	13
91) 1,2-Dichlorobenzene	12.38	146	3820	0.595	ug/l	93
94) Hexachlorobutadiene	13.77	225	196	0.512	ug/l #	63

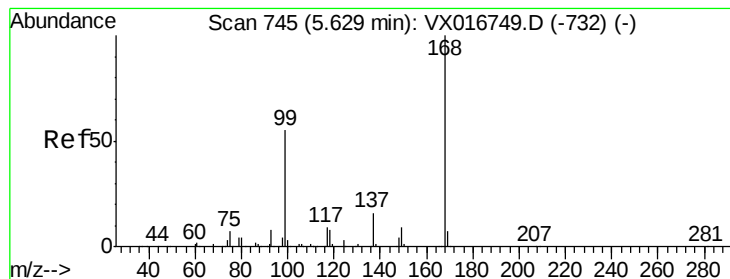
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 16 02:02:35 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: VX016825.D

Acq: 17 Jun 2020 18:28

Instrument :

MSVOA_X

ClientSampleId :

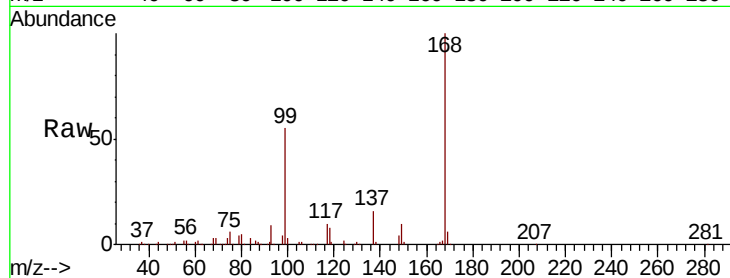
LF015MW001-200615

Tot Ion:168 Resp: 246773

Ion Ratio Lower Upper

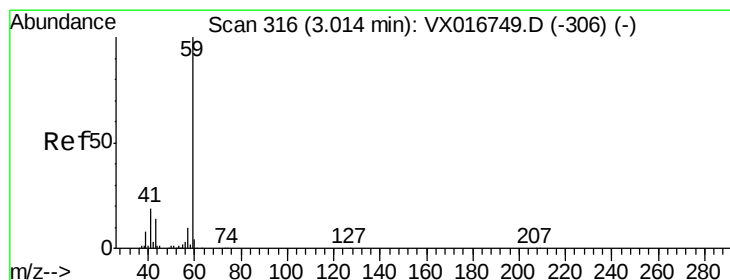
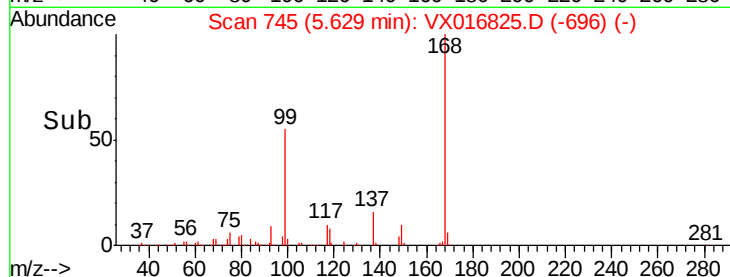
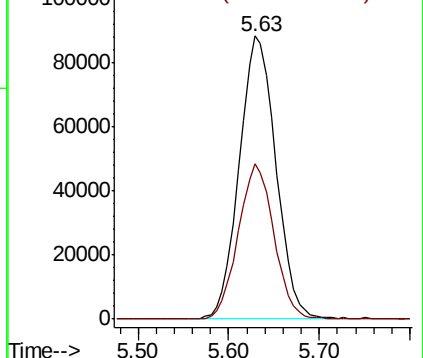
168 100

99 55.0 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 0.245 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016825.D

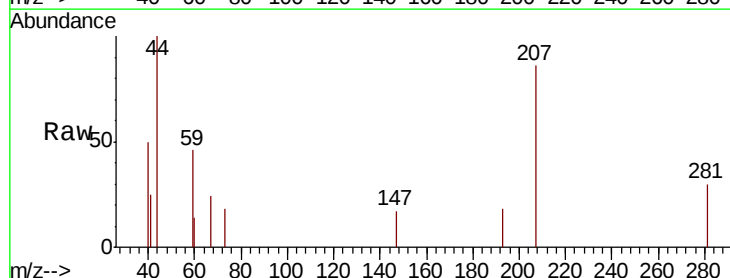
Acq: 17 Jun 2020 18:28

Tgt Ion: 59 Resp: 171

Ion Ratio Lower Upper

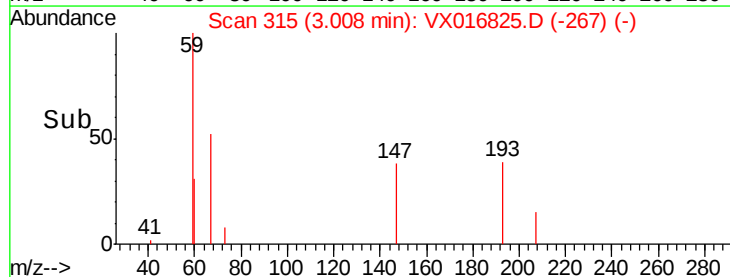
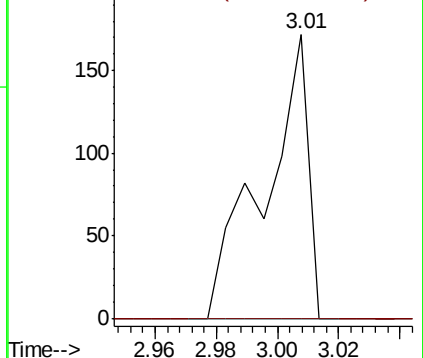
59 100

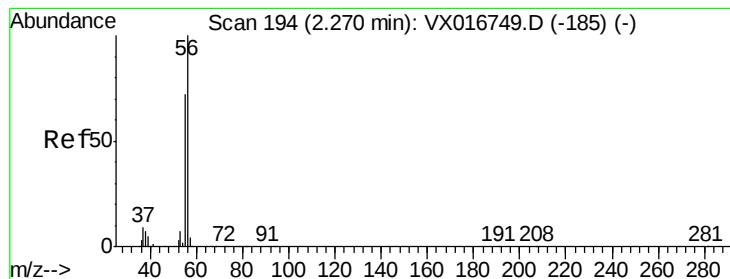
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 3.430 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

Instrument :

MSVOA_X

ClientSampleId :

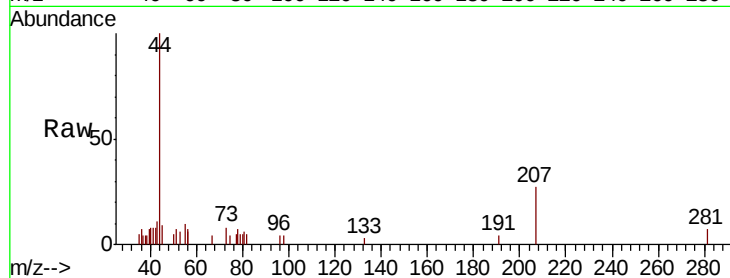
LF015MW001-200615

Tot Ion: 56 Resp: 337

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

250

200

150

100

50

0

2.25

2.30

2.35

2.40

2.45

2.50

2.55

2.60

2.65

2.70

2.75

2.80

2.85

2.90

2.95

3.00

3.05

3.10

3.15

3.20

3.25

3.30

3.35

3.40

3.45

3.50

3.55

3.60

3.65

3.70

3.75

3.80

3.85

3.90

3.95

4.00

4.05

4.10

4.15

4.20

4.25

4.30

4.35

4.40

4.45

4.50

4.55

4.60

4.65

4.70

4.75

4.80

4.85

4.90

4.95

5.00

5.05

5.10

5.15

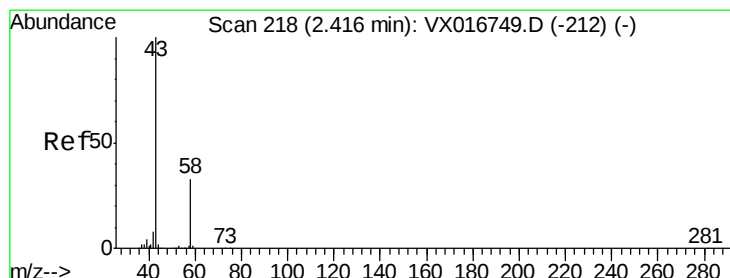
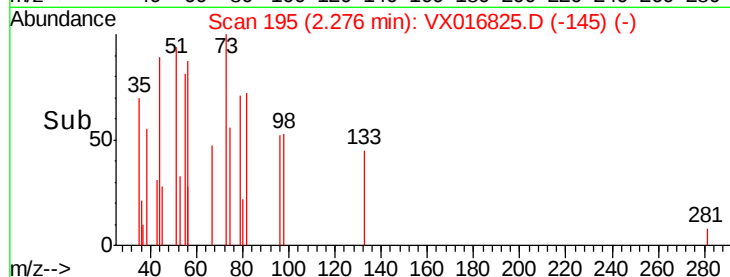
5.20

5.25

5.30

5.35

5.40



#16

Acetone

Concen: 2.046 ug/l

RT: 2.41 min Scan# 217

Delta R.T. -0.01 min

Lab File: VX016825.D

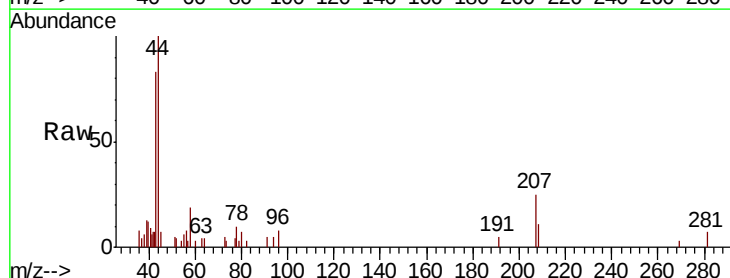
Acq: 17 Jun 2020 18:28

Tgt Ion: 43 Resp: 2576

Ion Ratio Lower Upper

43 100

58 24.0 26.3 39.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1500

1000

500

0

2.35

2.40

2.45

2.50

2.55

2.60

2.65

2.70

2.75

2.80

2.85

2.90

2.95

3.00

3.05

3.10

3.15

3.20

3.25

3.30

3.35

3.40

3.45

3.50

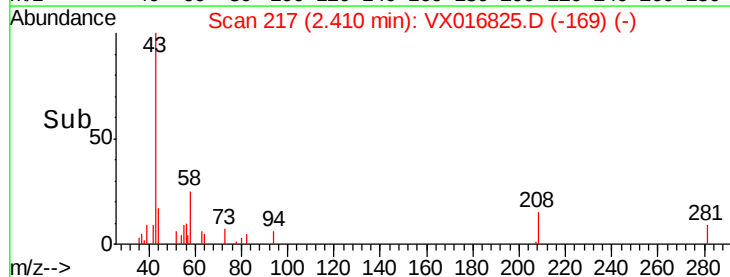
3.55

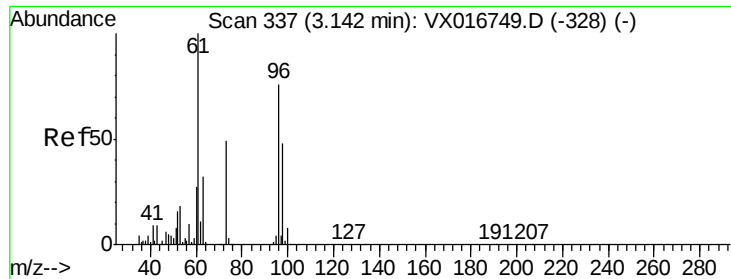
3.60

3.65

3.70

3.75





#21

trans-1,2-Dichloroethene

Concen: 0.421 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

Instrument :

MSVOA_X

ClientSampleId :

LF015MW001-200615

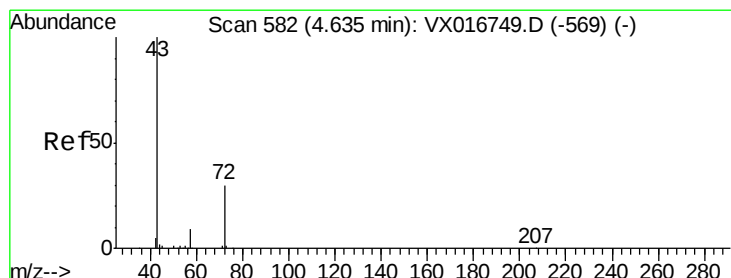
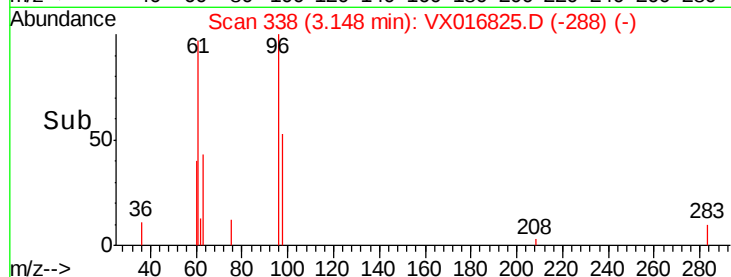
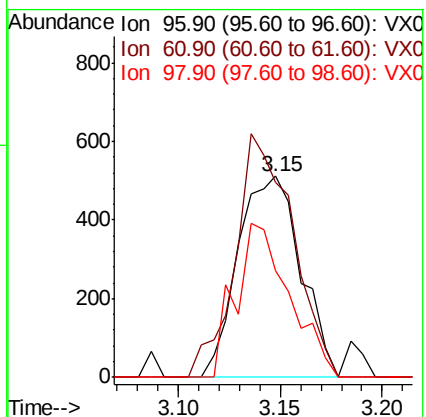
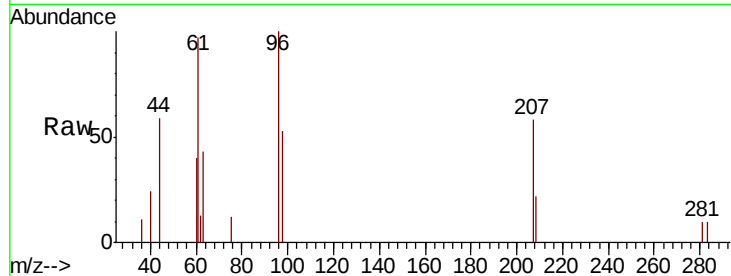
Tot Ion: 96 Resp: 1091

Ion Ratio Lower Upper

96 100

61 97.3 105.4 158.2#

98 53.2 50.8 76.2



#25

2-Butanone

Concen: 0.267 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX016825.D

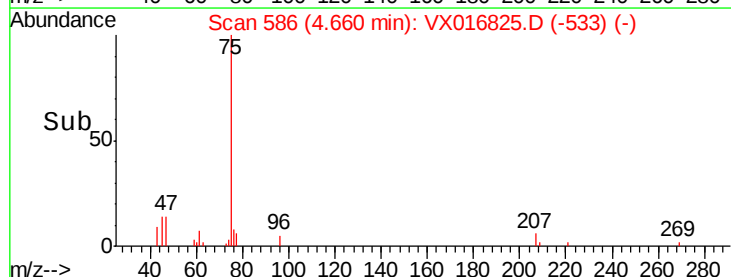
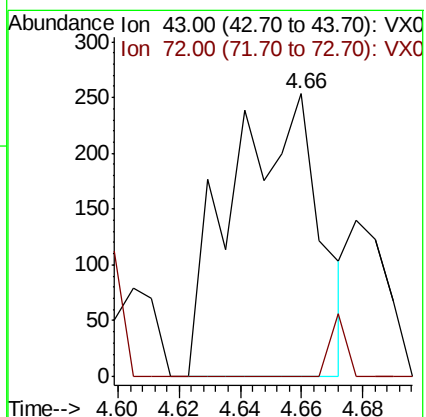
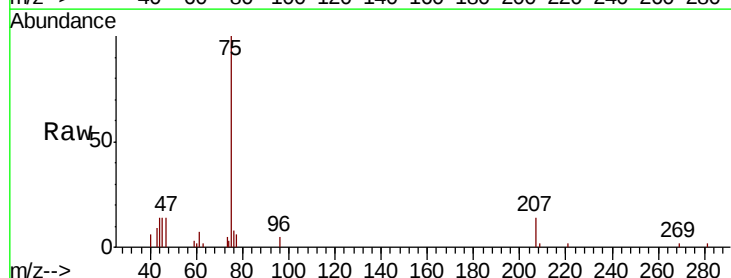
Acq: 17 Jun 2020 18:28

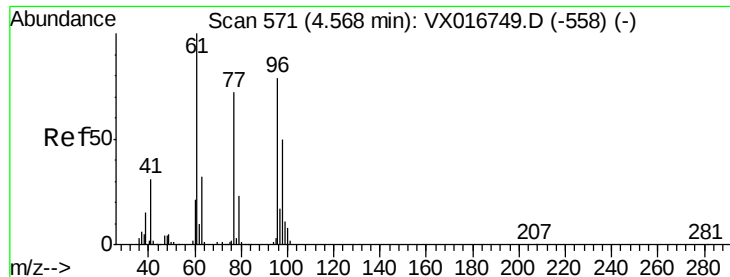
Tgt Ion: 43 Resp: 506

Ion Ratio Lower Upper

43 100

72 0.0 24.2 36.4#



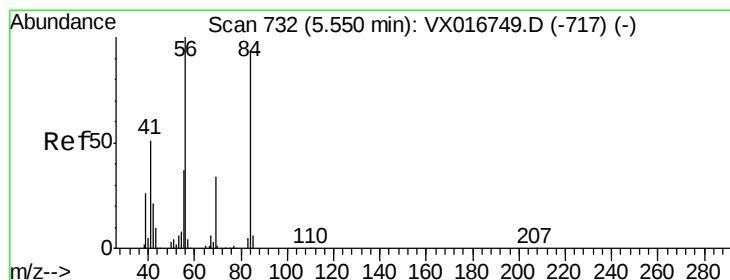
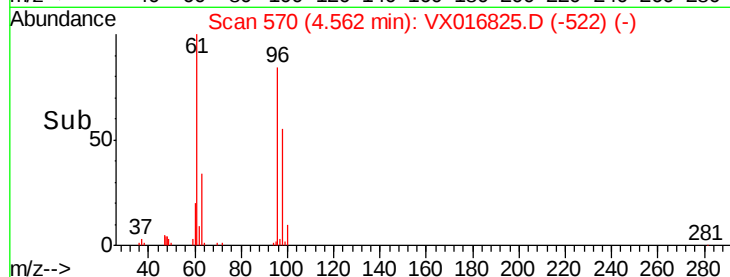
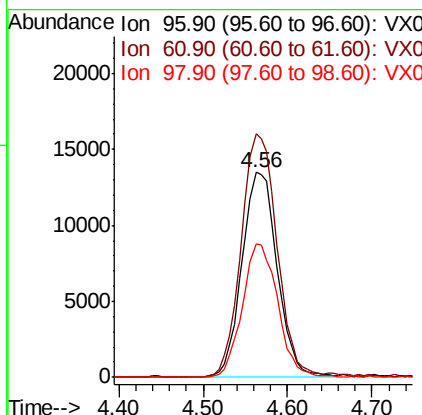
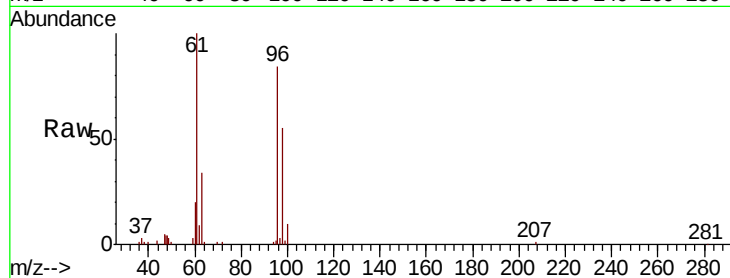


#27

cis-1,2-Dichloroethene
 Concen: 12.967 ug/l
 RT: 4.56 min Scan# 570
 Delta R.T. -0.01 min
 Lab File: VX016825.D
 Acq: 17 Jun 2020 18:28

Instrument :
 MSVOA_X
 ClientSampleId :
 LF015MW001-200615

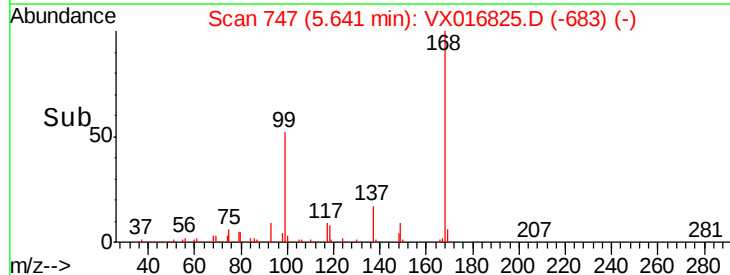
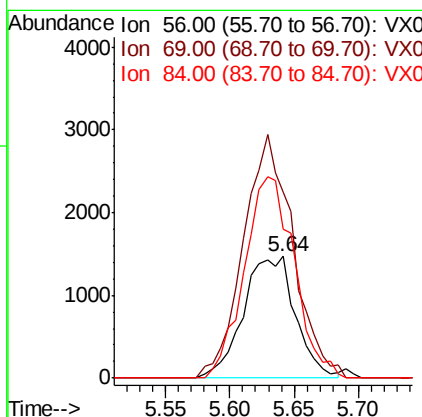
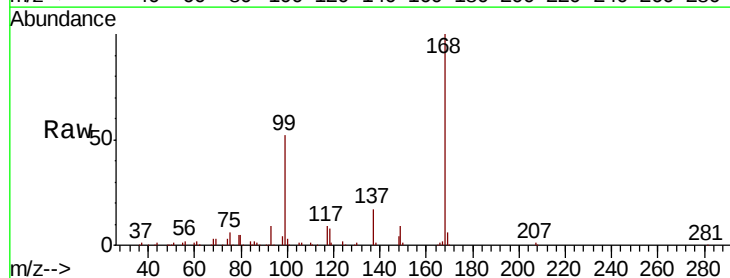
Tot Ion	Ratio	Lower	Upper
96	100		
61	121.3	0.0	276.2
98	64.9	0.0	130.0

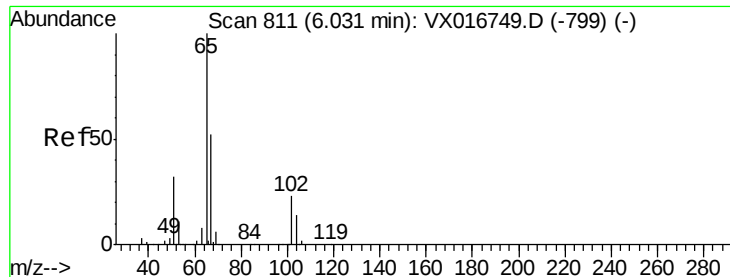


#31

Cyclohexane
 Concen: 1.834 ug/l
 RT: 5.64 min Scan# 747
 Delta R.T. 0.09 min
 Lab File: VX016825.D
 Acq: 17 Jun 2020 18:28

Tgt Ion	Ratio	Lower	Upper
56	100		
69	152.5	27.1	40.7#
84	122.6	74.0	111.0#





#33

1,2-Dichloroethane-d4

Concen: 50.089 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

Instrument :

MSVOA_X

ClientSampleId :

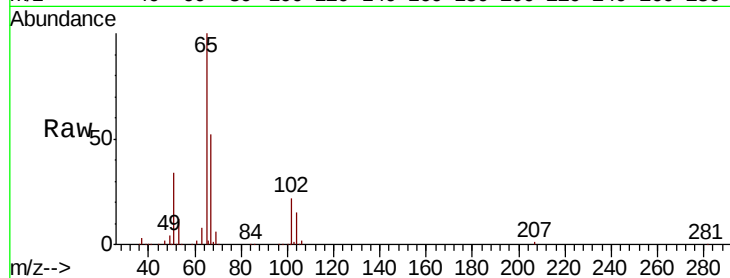
LF015MW001-200615

Tot Ion: 65 Resp: 139028

Ion Ratio Lower Upper

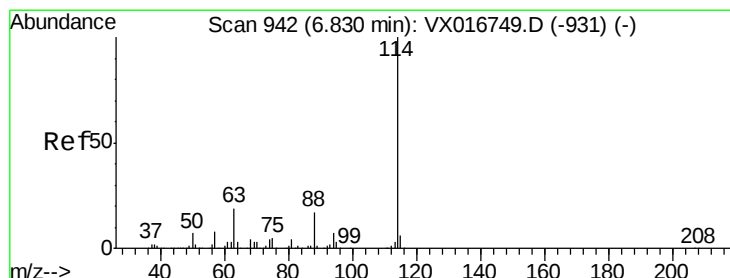
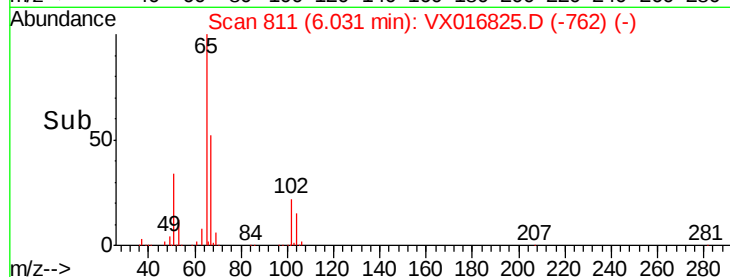
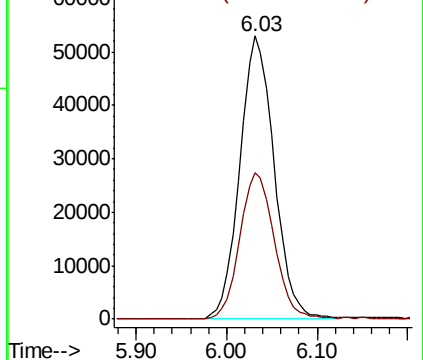
65 100

67 51.8 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

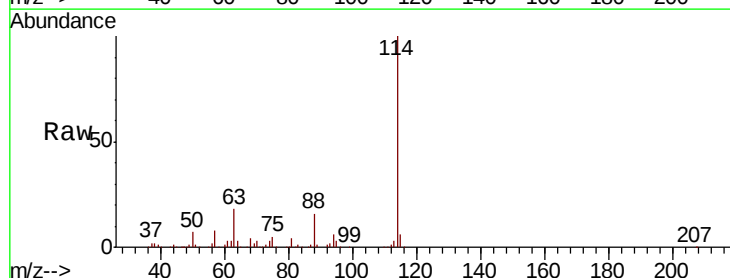
Tgt Ion: 114 Resp: 396620

Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.8

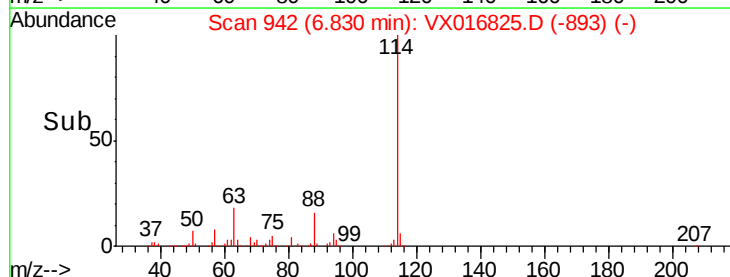
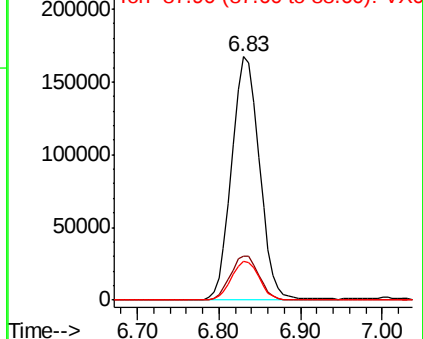
88 15.9 0.0 33.4

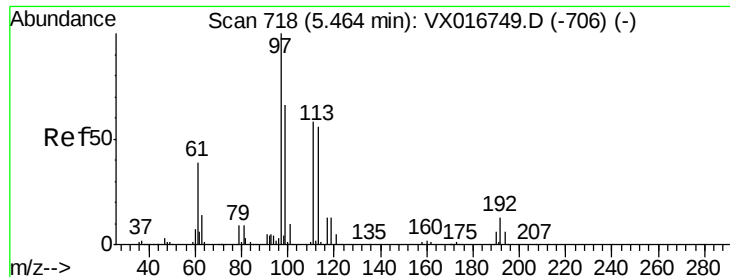


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

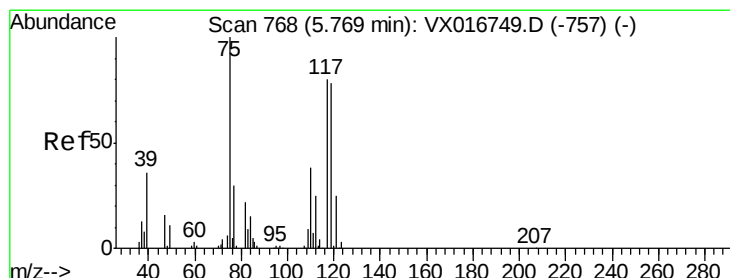
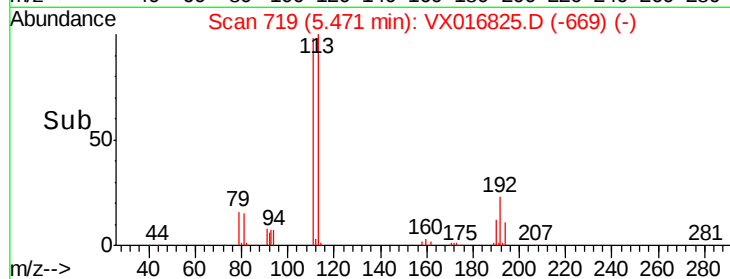
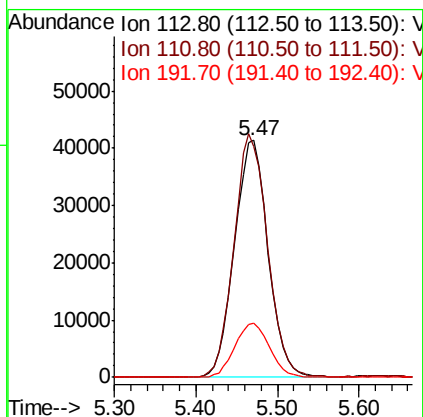
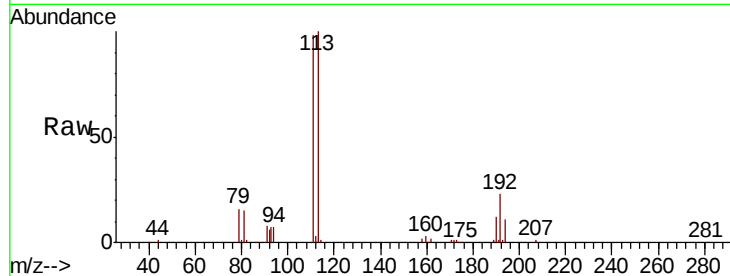




#35
 Dibromofluoromethane
 Concen: 48.372 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX016825.D
 Acq: 17 Jun 2020 18:28

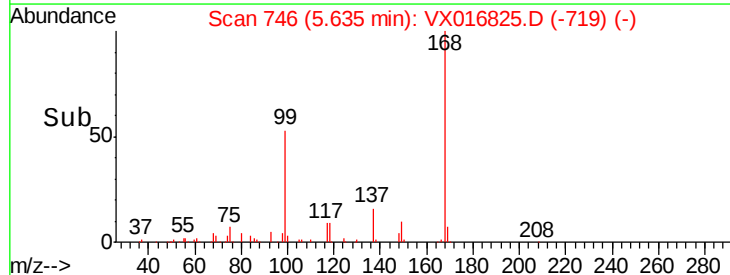
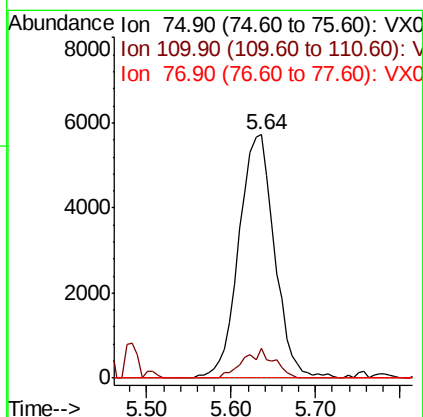
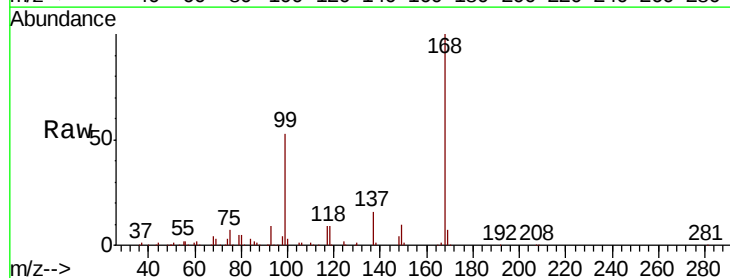
Instrument :
 MSVOA_X
 ClientSampleId :
 LF015MW001-200615

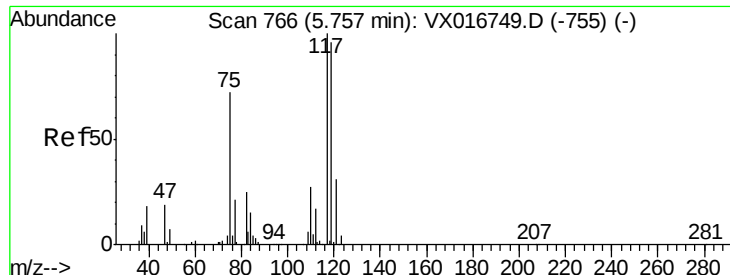
Tot Ion:113 Resp: 118370
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.8 122.6
 192 23.6 18.2 27.4



#36
 1,1-Dichloropropene
 Concen: 4.671 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016825.D
 Acq: 17 Jun 2020 18:28

Tgt Ion: 75 Resp: 16372
 Ion Ratio Lower Upper
 75 100
 110 10.4 18.4 55.2#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.760 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

Instrument :

MSVOA_X

ClientSampleId :

LF015MW001-200615

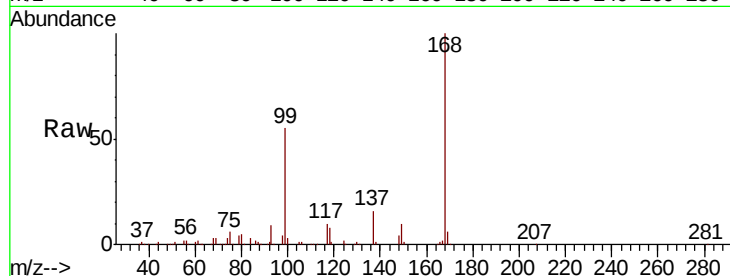
Tot Ion:117 Resp: 22927

Ion Ratio Lower Upper

117 100

119 5.9 76.7 115.1#

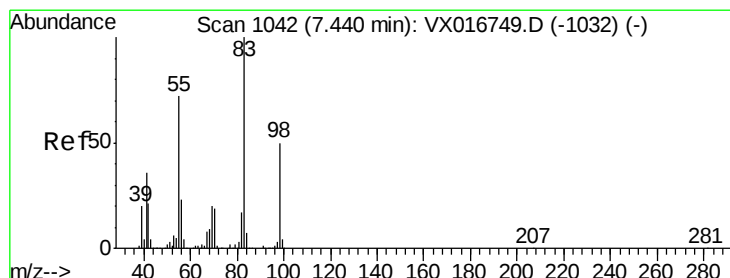
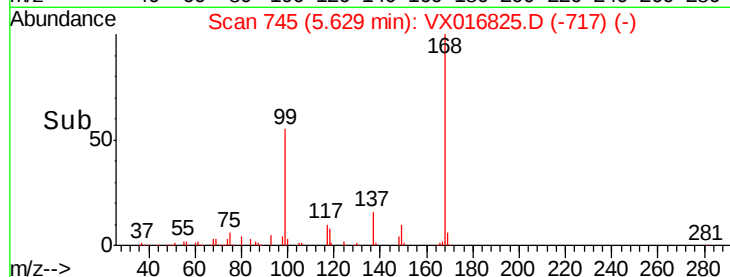
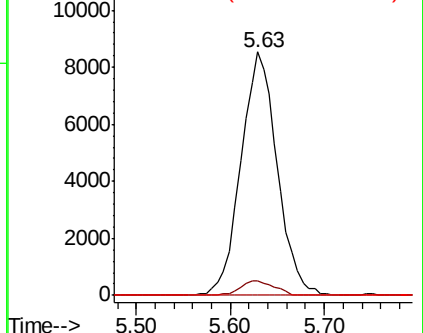
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.980 ug/l

RT: 7.44 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

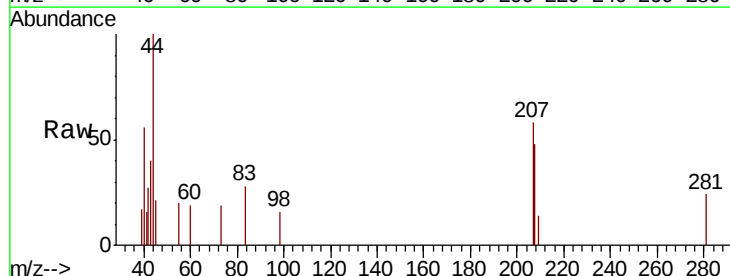
Tgt Ion: 83 Resp: 110

Ion Ratio Lower Upper

83 100

55 72.4 57.3 85.9

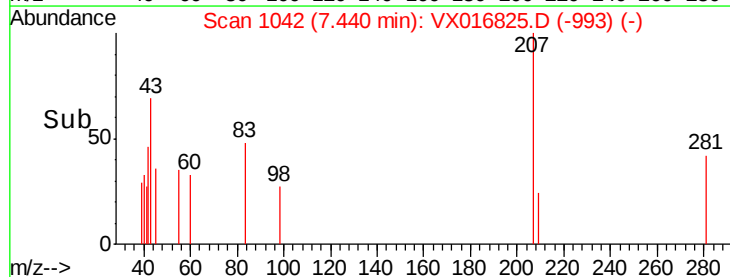
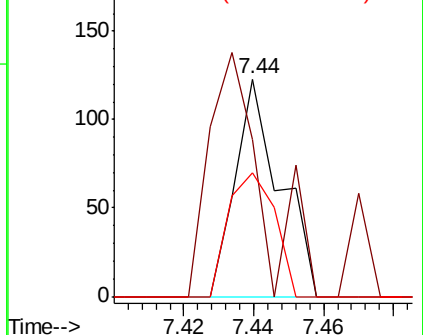
98 56.9 40.3 60.5

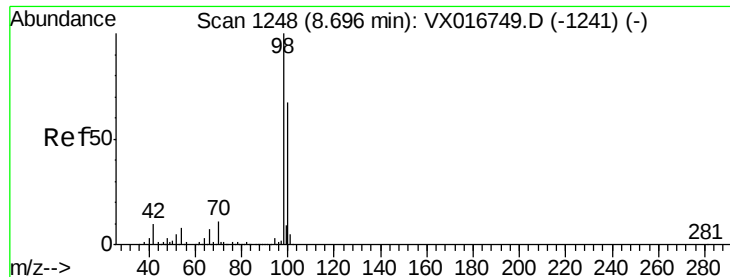


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 52.526 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

Instrument :

MSVOA_X

ClientSampleId :

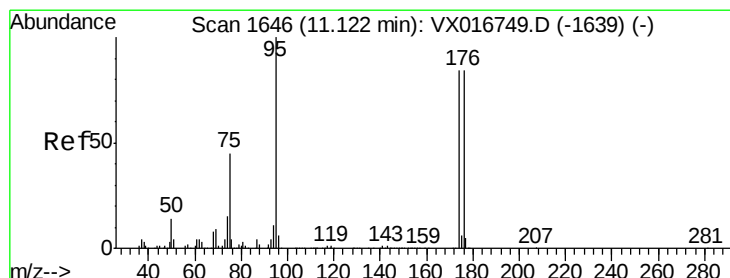
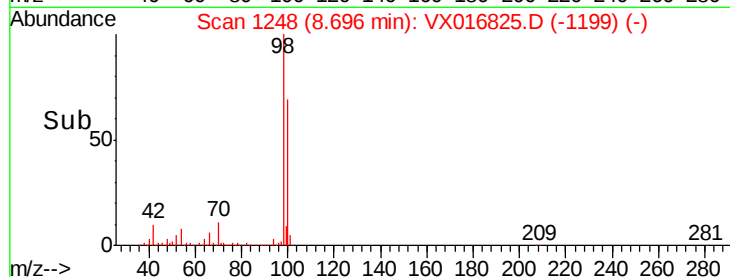
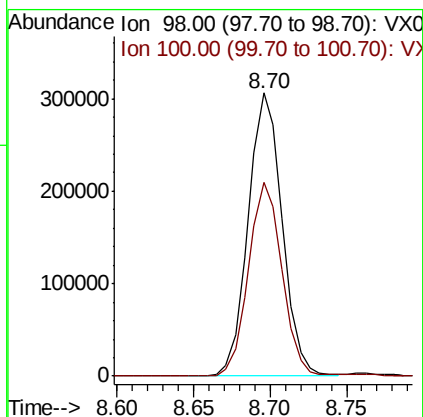
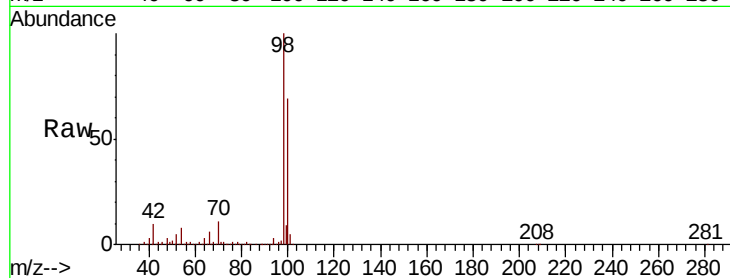
LF015MW001-200615

Tot Ion: 98 Resp: 473942

Ion Ratio Lower Upper

98 100

100 67.5 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 64.408 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

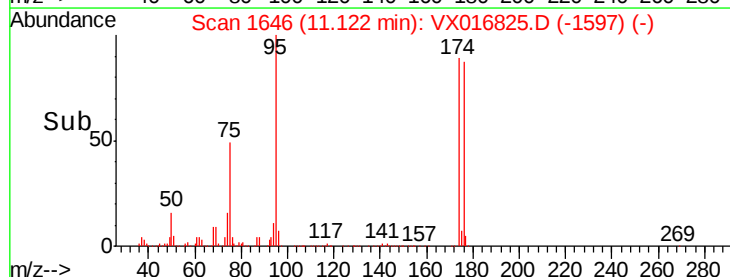
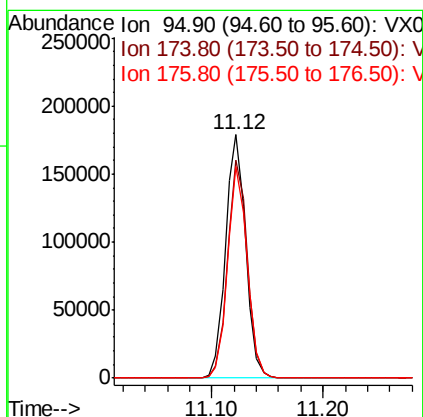
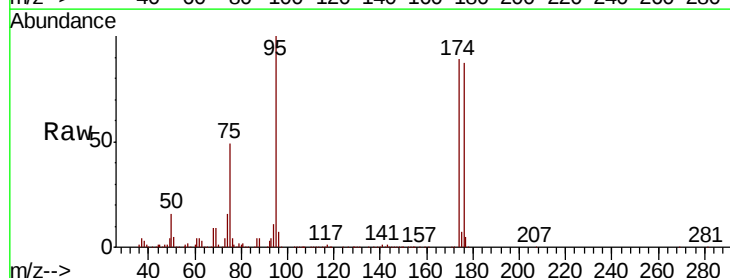
Tgt Ion: 95 Resp: 222292

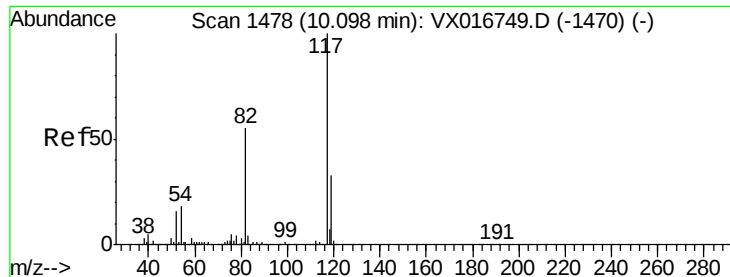
Ion Ratio Lower Upper

95 100

174 88.8 0.0 171.0

176 85.4 0.0 166.2

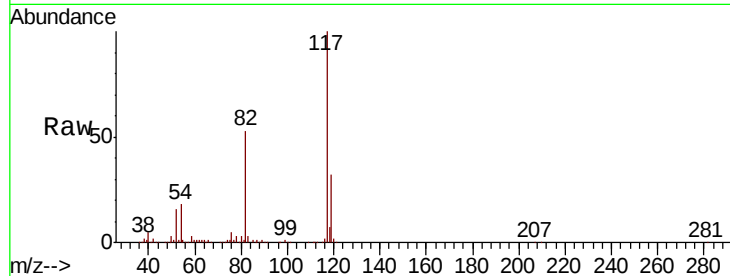




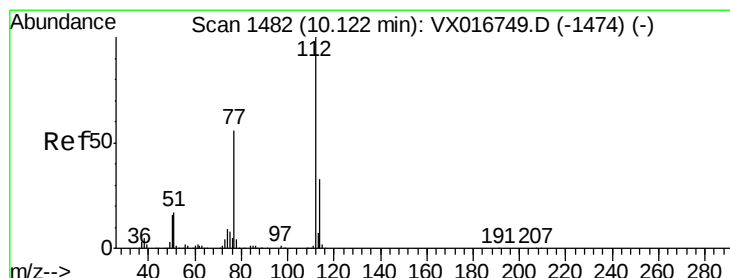
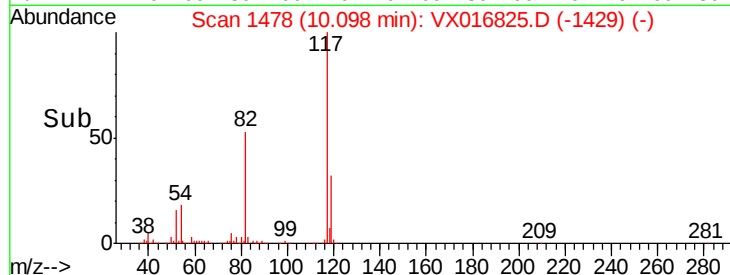
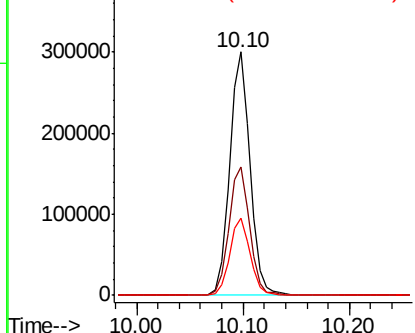
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016825.D
Acq: 17 Jun 2020 18:28

Instrument :
MSVOA_X
ClientSampleId :
LF015MW001-200615

Tot Ion:117 Resp: 401832
Ion Ratio Lower Upper
117 100
82 52.6 43.8 65.6
119 32.0 26.2 39.4

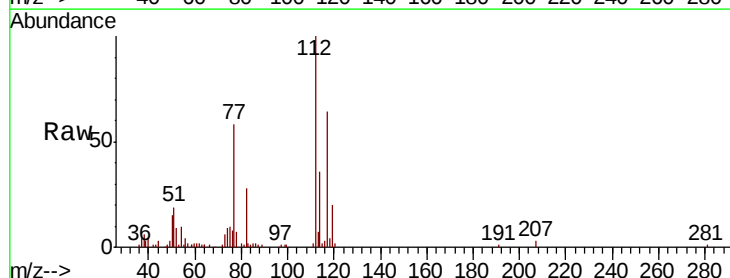


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

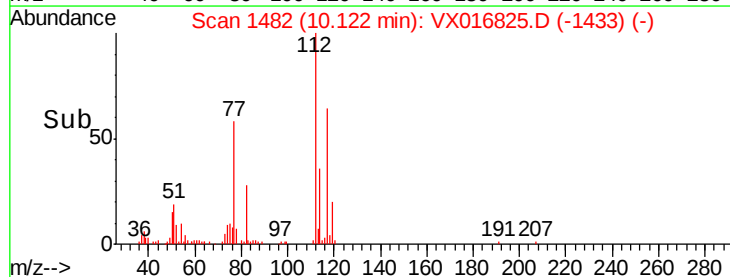
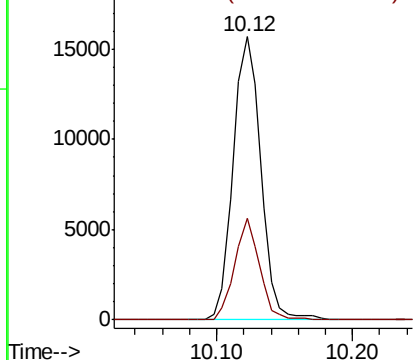


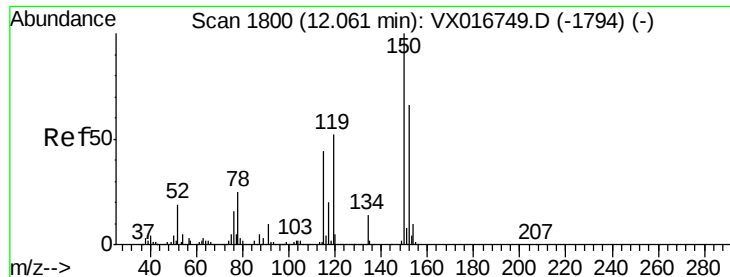
#65
Chlorobenzene
Concen: 2.730 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX016825.D
Acq: 17 Jun 2020 18:28

Tgt Ion:112 Resp: 22262
Ion Ratio Lower Upper
112 100
114 35.8 26.2 39.4



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: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

Instrument :

MSVOA_X

ClientSampleId :

LF015MW001-200615

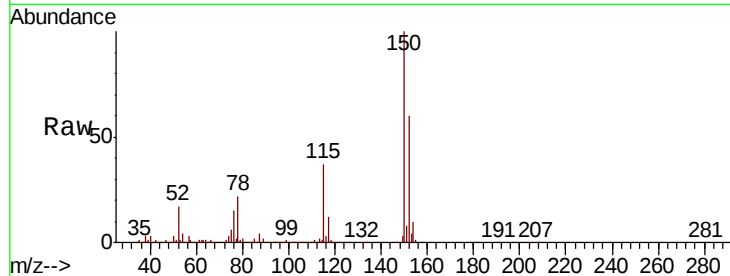
Tot Ion:152 Resp: 205016

Ion Ratio Lower Upper

152 100

115 57.8 40.3 120.8

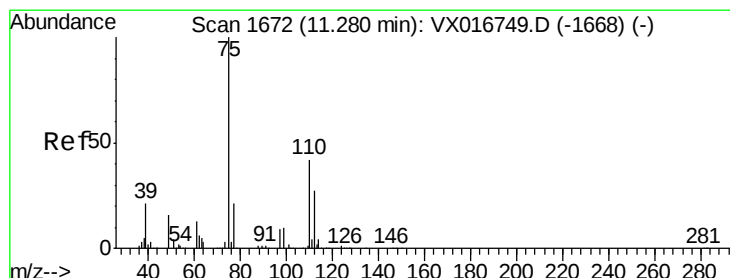
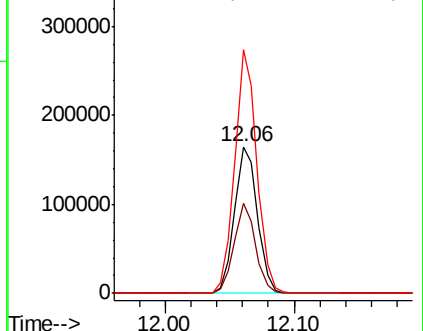
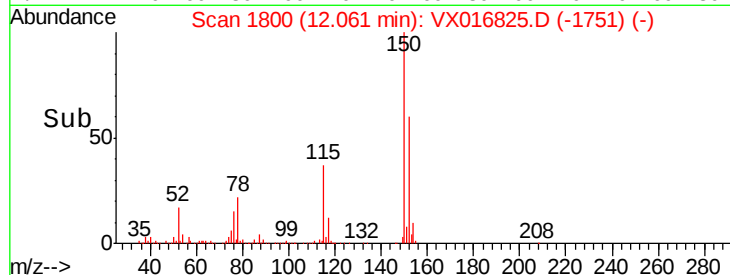
150 159.6 0.0 337.4



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: 24.950 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016825.D

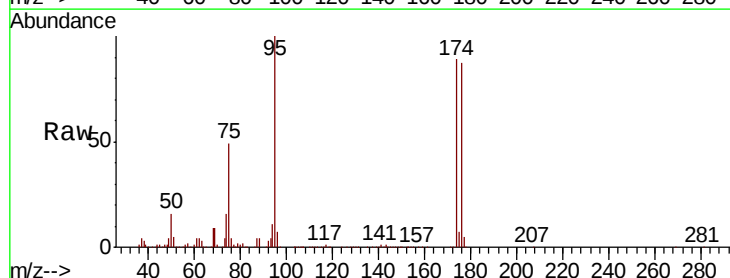
Acq: 17 Jun 2020 18:28

Tgt Ion: 75 Resp: 107571

Ion Ratio Lower Upper

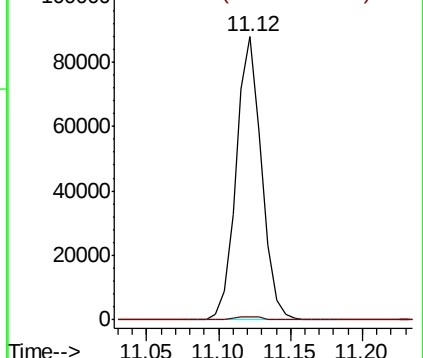
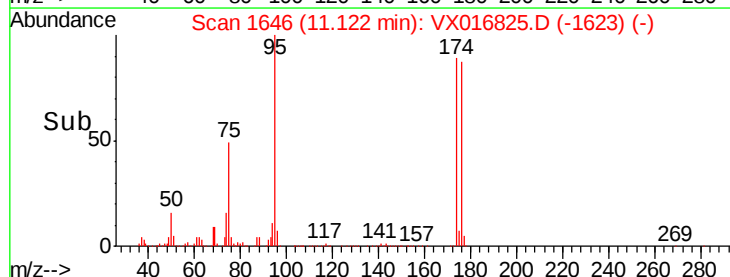
75 100

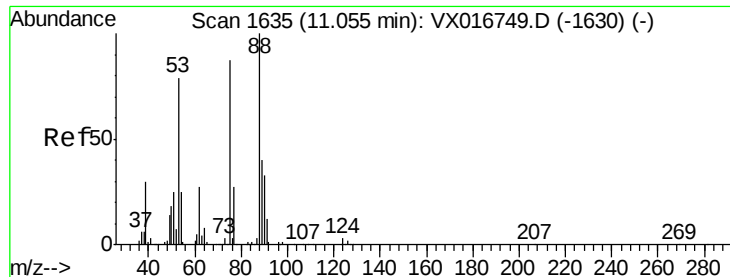
77 1.3 20.3 60.9#



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: 62.812 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

Instrument :

MSVOA_X

ClientSampleId :

LF015MW001-200615

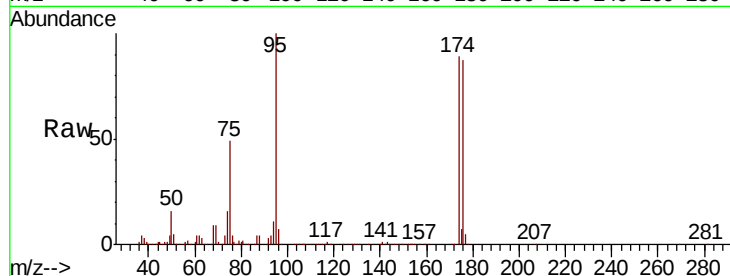
Tot Ion: 75 Resp: 107571

Ion Ratio Lower Upper

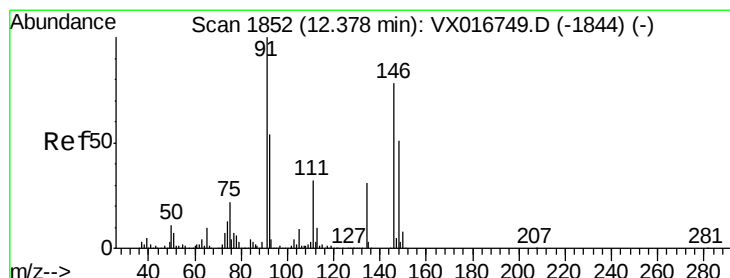
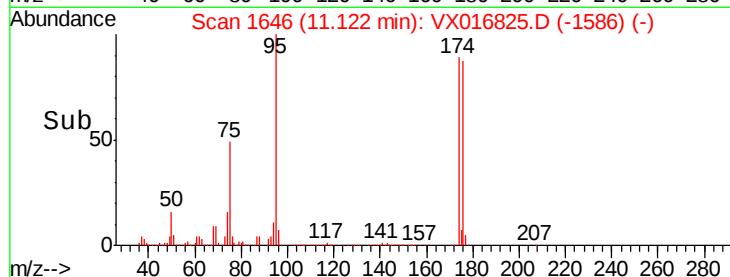
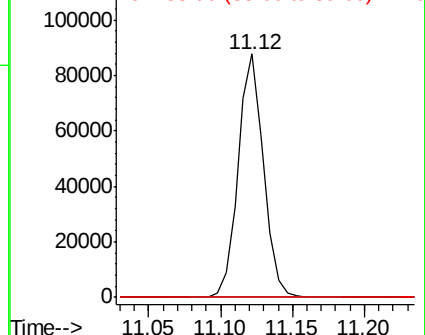
75 100

53 0.1 71.4 107.0#

89 0.0 39.1 58.7#



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: 0.595 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

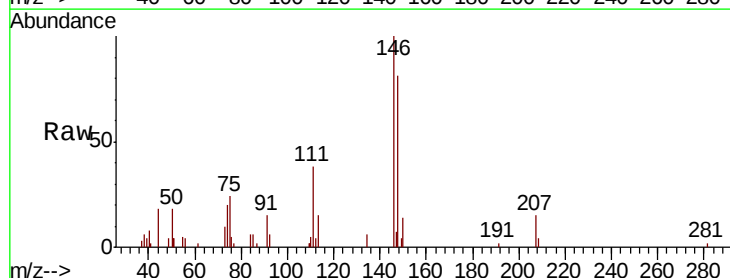
Tgt Ion: 146 Resp: 3820

Ion Ratio Lower Upper

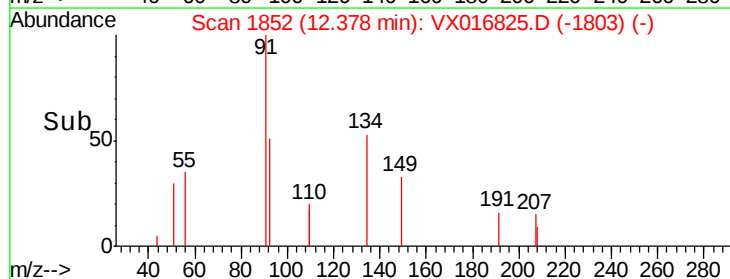
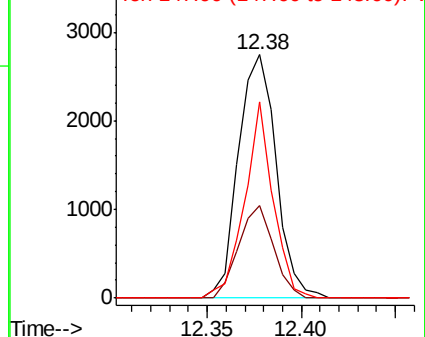
146 100

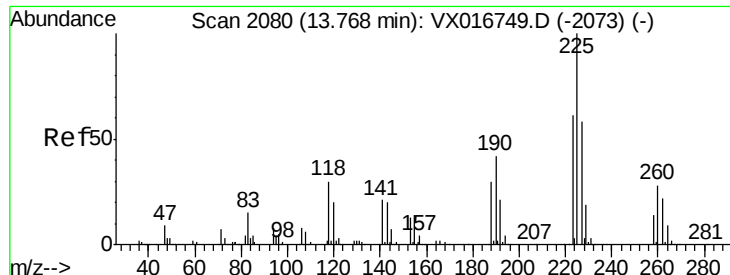
111 35.1 20.8 62.2

148 60.7 32.1 96.5



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





#94

Hexachlorobutadiene

Concen: 0.512 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016825.D

Acq: 17 Jun 2020 18:28

Instrument :

MSVOA_X

ClientSampleId :

LF015MW001-200615

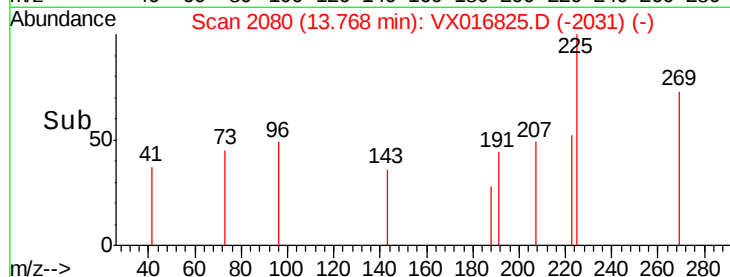
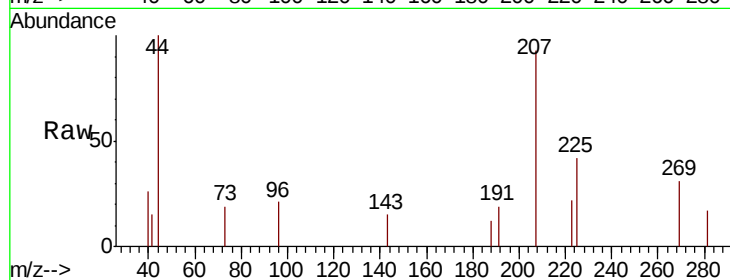
Tot Ion: 225 Resp: 196

Ion Ratio Lower Upper

225 100

223 82.1 31.1 93.5

227 24.0 30.9 92.7#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

