

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061920\
 Data File : VX016879.D
 Acq On : 19 Jun 2020 15:06
 Operator : JC/SP
 Sample : L3032-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF015MW001-200615

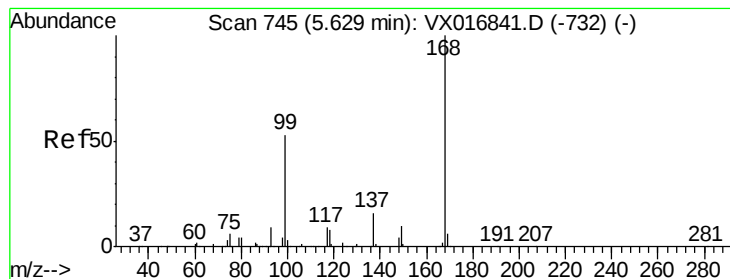
Quant Time: Jun 22 01:36:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 19 12:07:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	255279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	358052	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	364178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	224944	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	132609	43.19	ug/l	0.00
Spiked Amount			Recovery	=	86.38%	
35) Dibromofluoromethane	5.46	113	136123	59.43	ug/l	0.00
Spiked Amount			Recovery	=	118.86%	
50) Toluene-d8	8.70	98	484840	52.91	ug/l	0.00
Spiked Amount			Recovery	=	105.82%	
62) 4-Bromofluorobenzene	11.12	95	182919	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	123	0.237	ug/l #	72
13) Acrolein	2.28	56	201	0.639	ug/l #	34
15) Acrylonitrile	3.12	53	246	0.207	ug/l #	69
16) Acetone	2.43	43	1536	1.378	ug/l #	73
17) Carbon Disulfide	2.55	76	1491	0.211	ug/l #	90
21) trans-1,2-Dichloroethene	3.15	96	791	0.307	ug/l #	59
25) 2-Butanone	4.64	43	341	0.222	ug/l #	45
27) cis-1,2-Dichloroethene	4.56	96	22996	7.945	ug/l	90
36) 1,1-Dichloropropene	5.63	75	18036	5.456	ug/l #	48
38) Carbon Tetrachloride	5.64	117	24225	6.531	ug/l #	16
65) Chlorobenzene	10.12	112	12878	1.746	ug/l	100
76) 1,2,3-Trichloropropane	11.12	75	87526	21.305	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	87526	52.173	ug/l #	14
91) 1,2-Dichlorobenzene	12.38	146	2978	0.427	ug/l	93
93) 1,2,4-Trichlorobenzene	13.63	180	958	0.205	ug/l	87
94) Hexachlorobutadiene	13.76	225	699	0.331	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016879.D

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ClientSampleId :

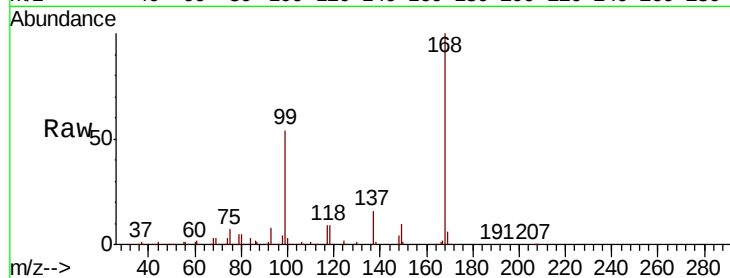
LF015MW001-200615

Tot Ion:168 Resp: 255279

Ion Ratio Lower Upper

168 100

99 53.6 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

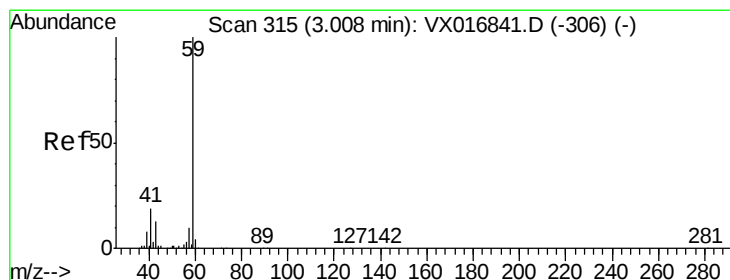
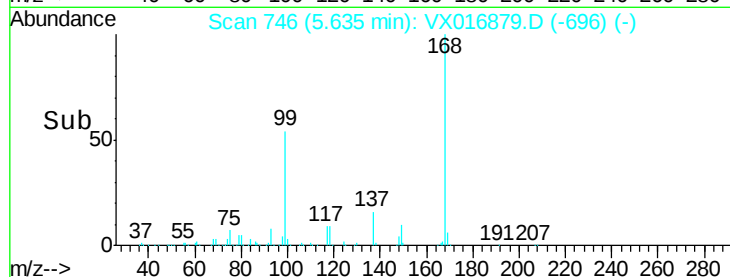
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.237 ug/l

RT: 3.01 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX016879.D

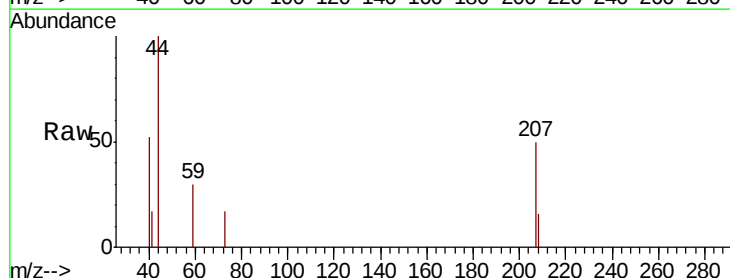
Acq: 19 Jun 2020 15:06

Tgt Ion: 59 Resp: 123

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

120

100

80

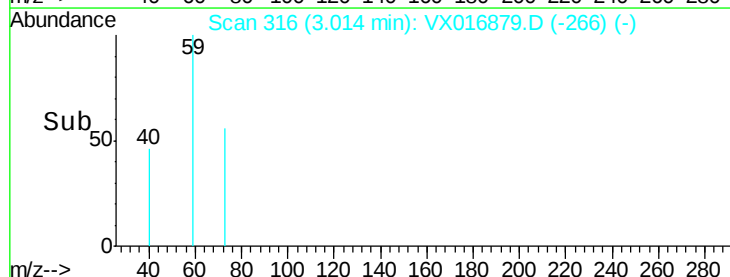
60

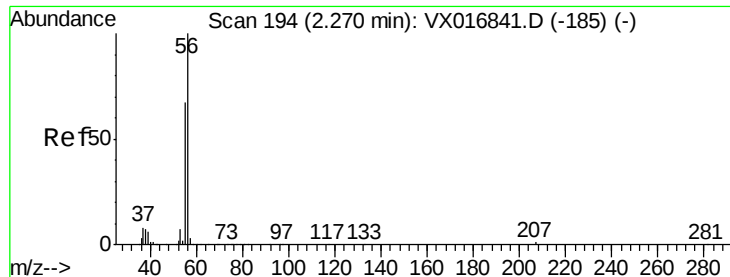
40

20

0

Time-->





#13

Acrolein

Concen: 0.639 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016879.D

Acq: 19 Jun 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

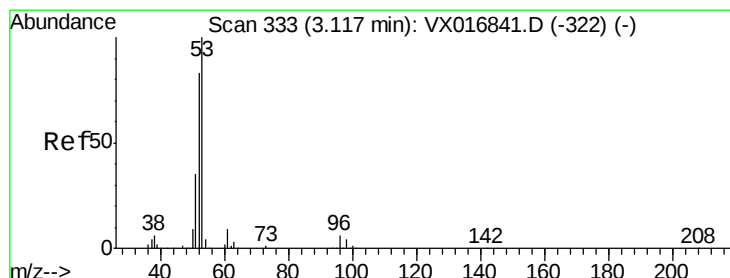
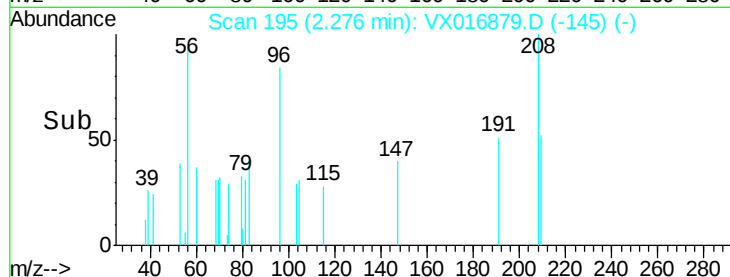
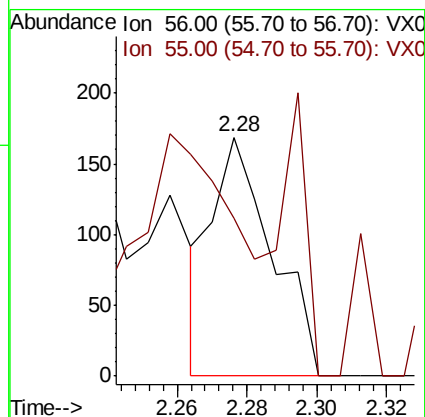
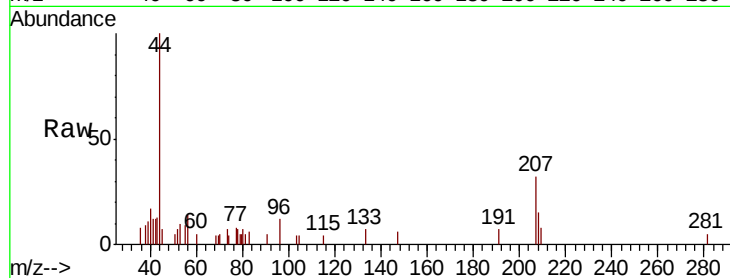
LF015MW001-200615

Tot Ion: 56 Resp: 201

Ion Ratio Lower Upper

56 100

55 123.4 55.7 83.5#



#15

Acrylonitrile

Concen: 0.207 ug/l

RT: 3.12 min Scan# 333

Delta R.T. 0.00 min

Lab File: VX016879.D

Acq: 19 Jun 2020 15:06

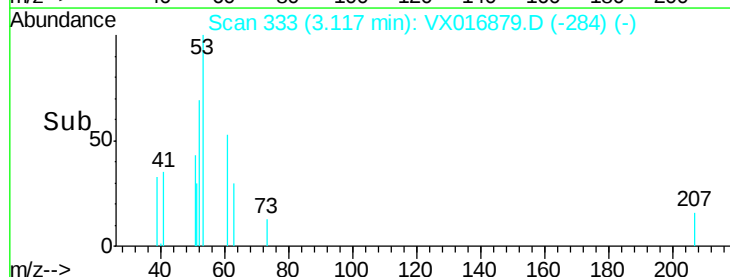
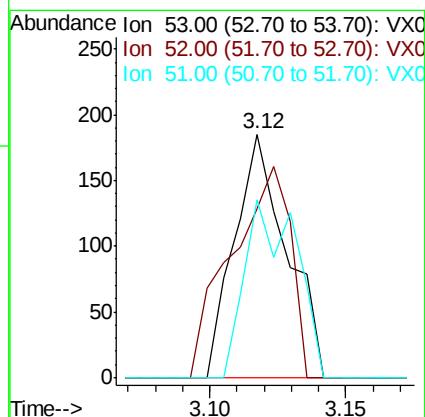
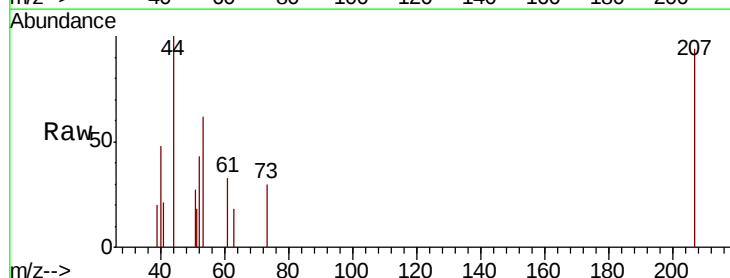
Tgt Ion: 53 Resp: 246

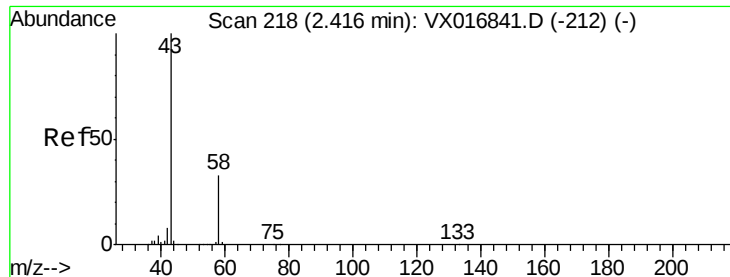
Ion Ratio Lower Upper

53 100

52 98.8 66.2 99.2

51 72.0 28.7 43.1#





#16

Acetone

Concen: 1.378 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX016879.D

Acq: 19 Jun 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

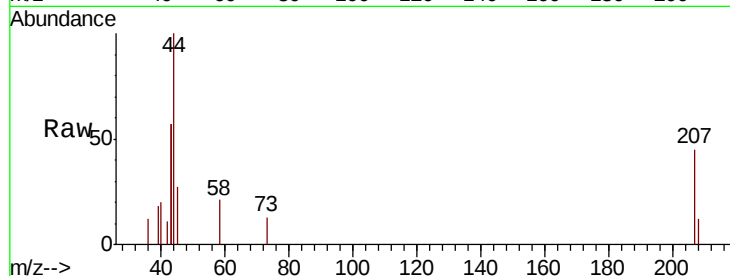
LF015MW001-200615

Tot Ion: 43 Resp: 1536

Ion Ratio Lower Upper

43 100

58 17.8 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

800

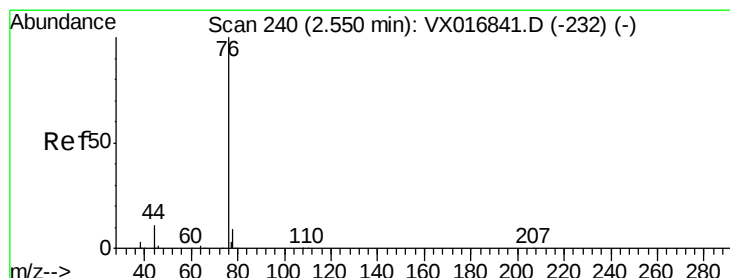
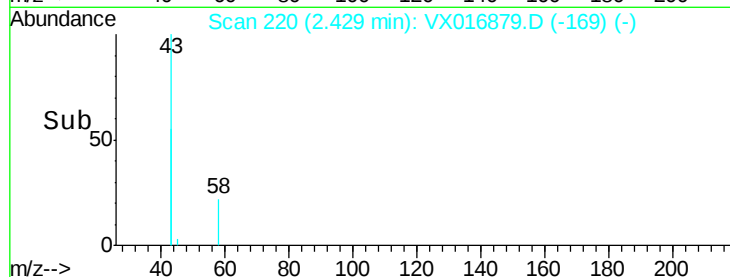
600

400

200

0

Time-->



#17

Carbon Disulfide

Concen: 0.211 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016879.D

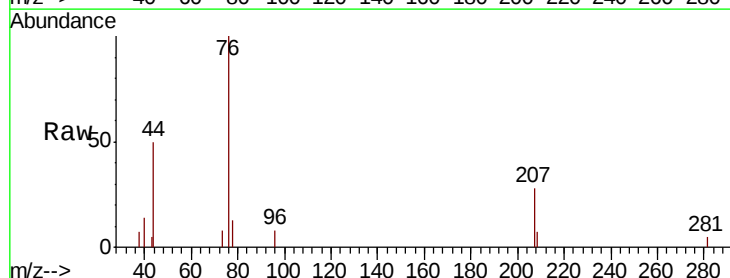
Acq: 19 Jun 2020 15:06

Tgt Ion: 76 Resp: 1491

Ion Ratio Lower Upper

76 100

78 13.2 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1200

1000

800

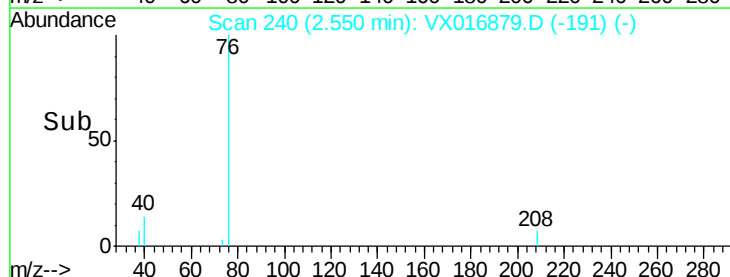
600

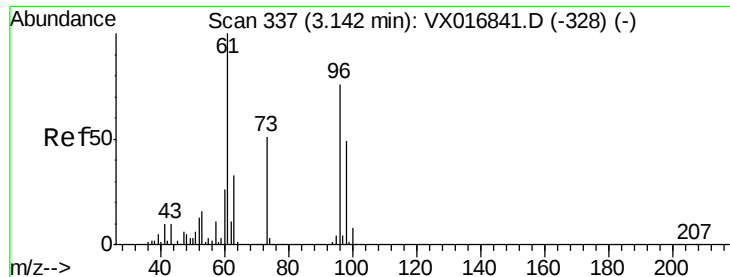
400

200

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.307 ug/l

RT: 3.15 min Scan# 339

Delta R.T. 0.01 min

Lab File: VX016879.D

Acq: 19 Jun 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

LF015MW001-200615

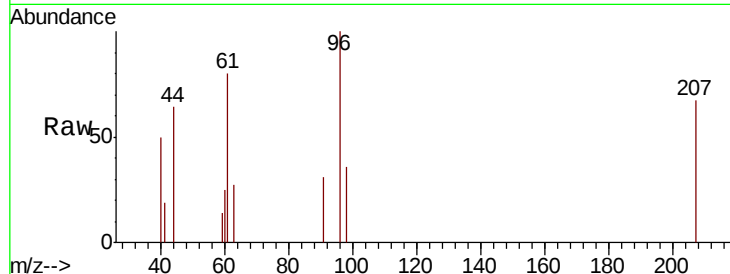
Tot Ion: 96 Resp: 791

Ion Ratio Lower Upper

96 100

61 80.5 105.4 158.0#

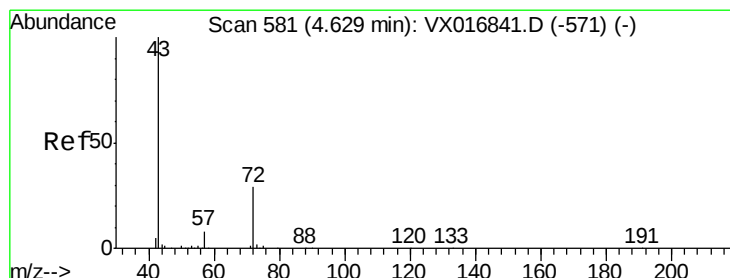
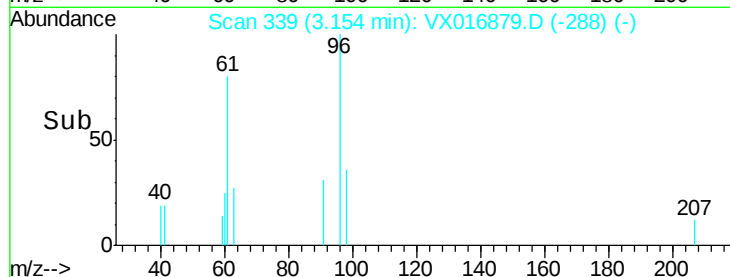
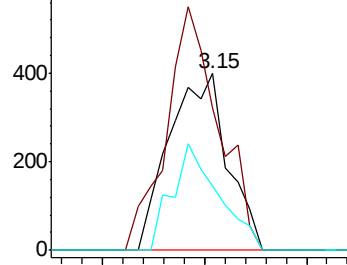
98 36.3 51.3 76.9#



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



#25

2-Butanone

Concen: 0.222 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX016879.D

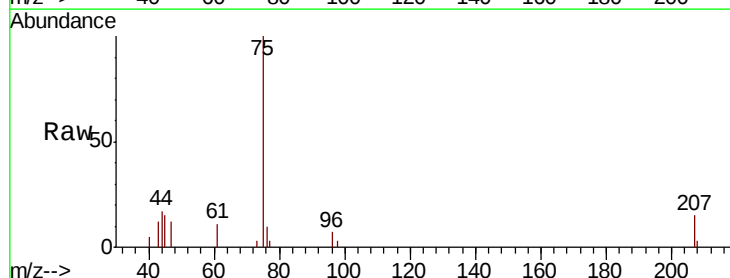
Acq: 19 Jun 2020 15:06

Tgt Ion: 43 Resp: 341

Ion Ratio Lower Upper

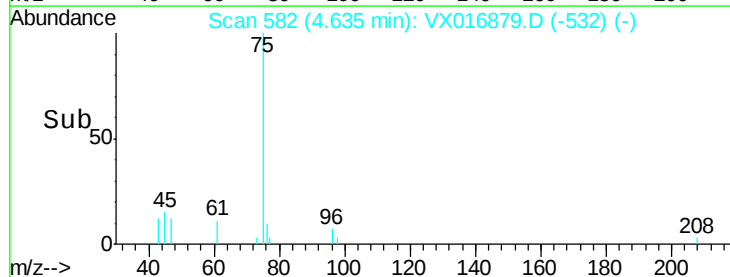
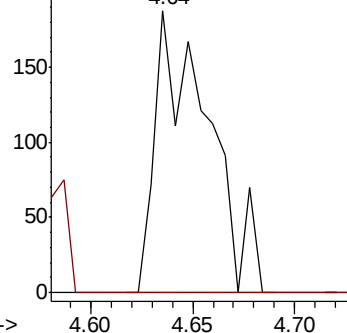
43 100

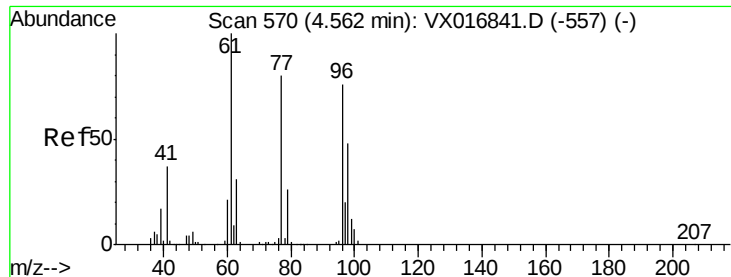
72 0.0 23.5 35.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



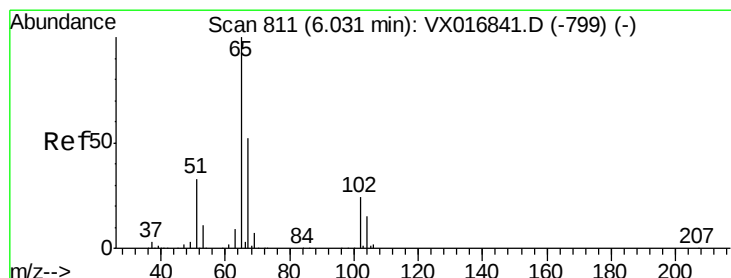
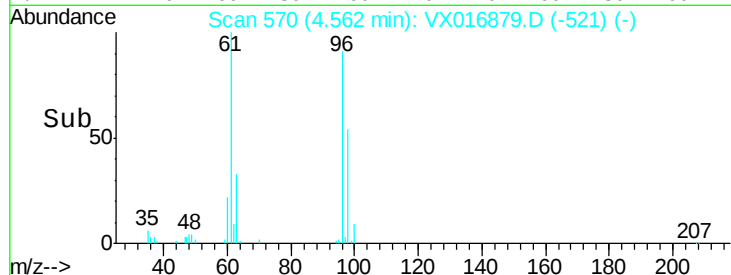
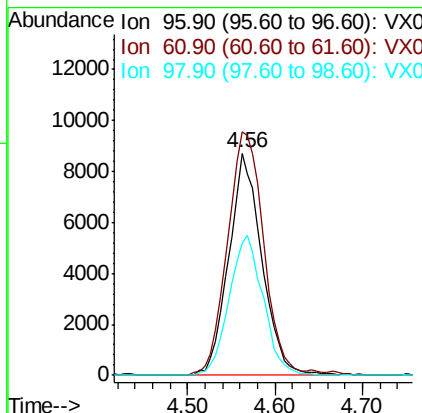
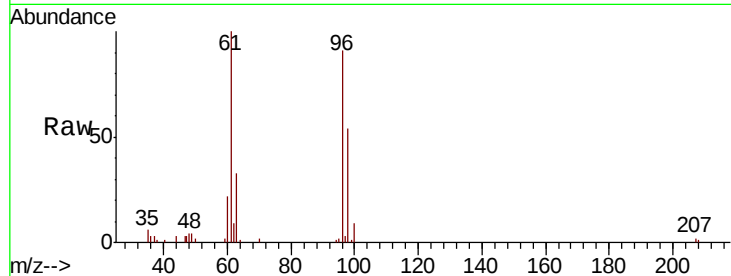


#27

cis-1,2-Dichloroethene
 Concen: 7.945 ug/l
 RT: 4.56 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VX016879.D
 Acq: 19 Jun 2020 15:06

Instrument :
 MSVOA_X
 ClientSampleId :
 LF015MW001-200615

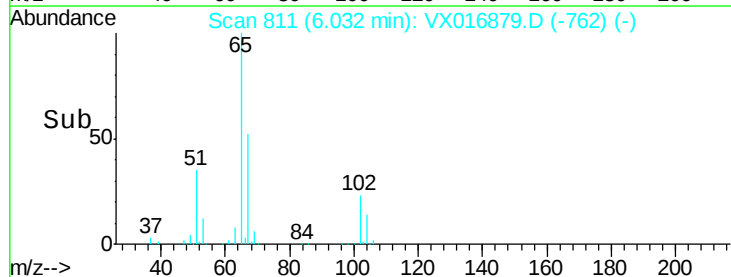
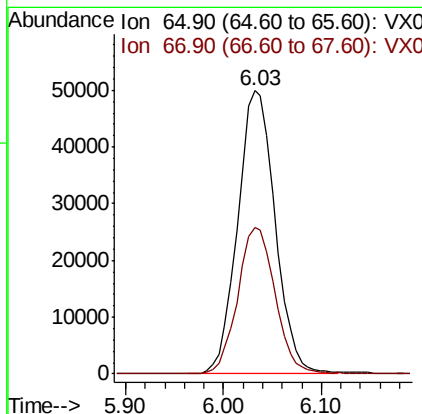
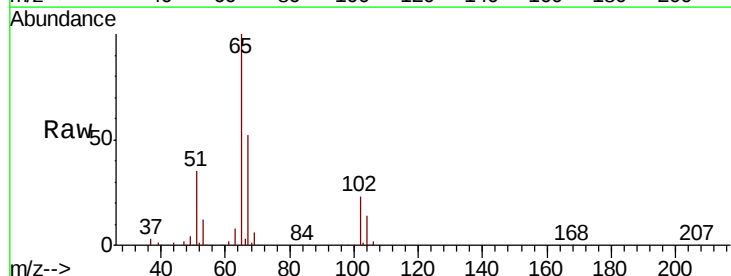
Tot Ion	96	Resp	22996
Ion	Ratio	Lower	Upper
96	100		
61	120.0	0.0	273.8
98	64.6	0.0	129.0

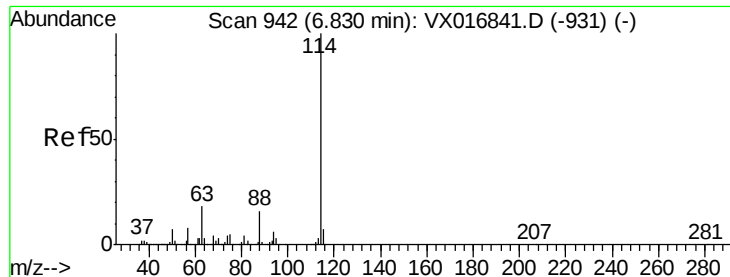


#33

1,2-Dichloroethane-d4
 Concen: 43.193 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX016879.D
 Acq: 19 Jun 2020 15:06

Tgt Ion	65	Resp	132609
Ion	Ratio	Lower	Upper
65	100		
67	51.8	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: VX016879.D

Acq: 19 Jun 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

LF015MW001-200615

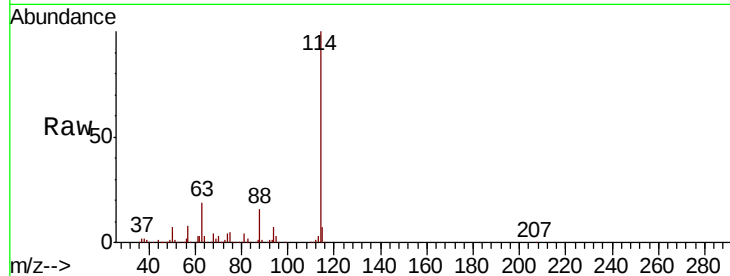
Tot Ion:114 Resp: 358052

Ion Ratio Lower Upper

114 100

63 19.3 0.0 37.0

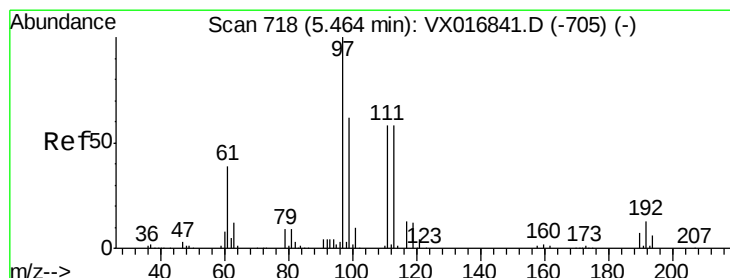
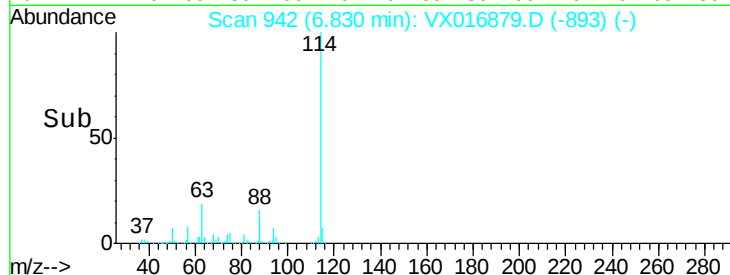
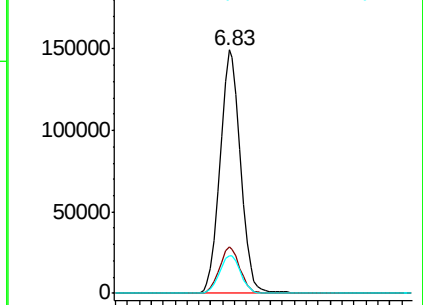
88 15.7 0.0 32.0



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: 59.430 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX016879.D

Acq: 19 Jun 2020 15:06

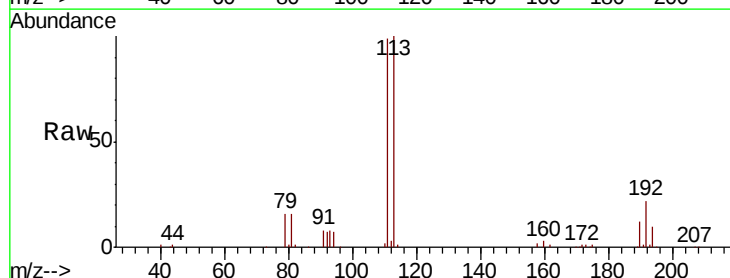
Tgt Ion:113 Resp: 136123

Ion Ratio Lower Upper

113 100

111 100.6 81.0 121.4

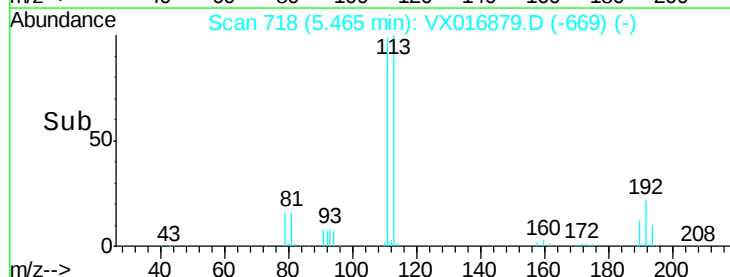
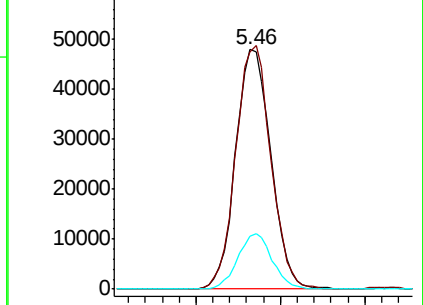
192 22.6 18.5 27.7

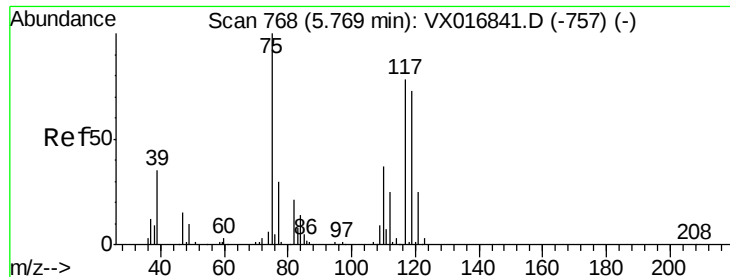


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.456 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016879.D

Acq: 19 Jun 2020 15:06

Instrument :

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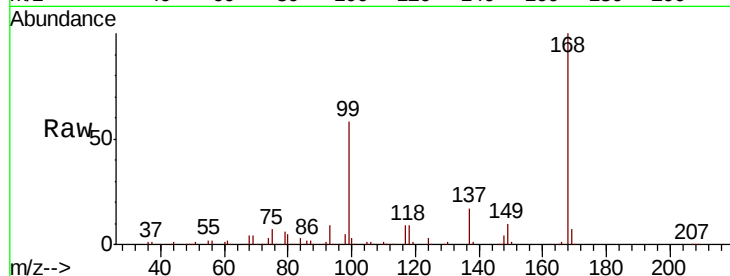
Tot Ion: 75 Resp: 18036

Ion Ratio Lower Upper

75 100

110 9.8 18.9 56.9#

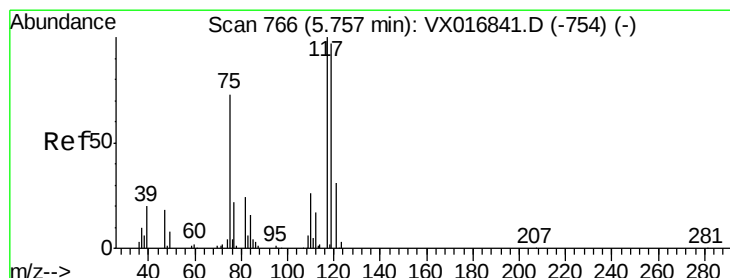
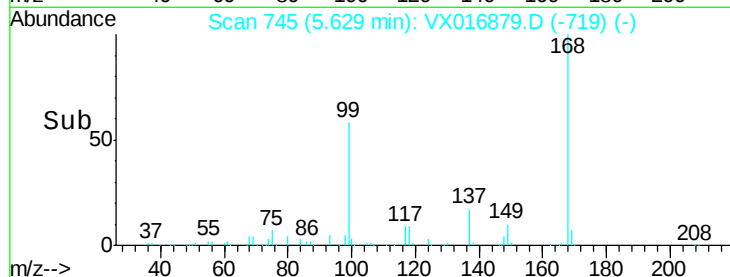
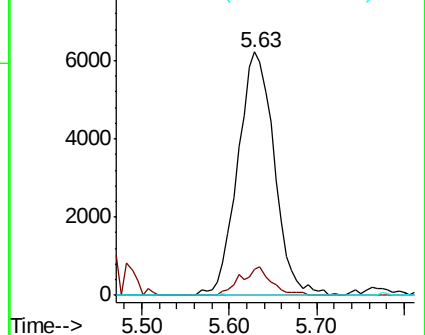
77 0.0 25.6 38.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.531 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016879.D

Acq: 19 Jun 2020 15:06

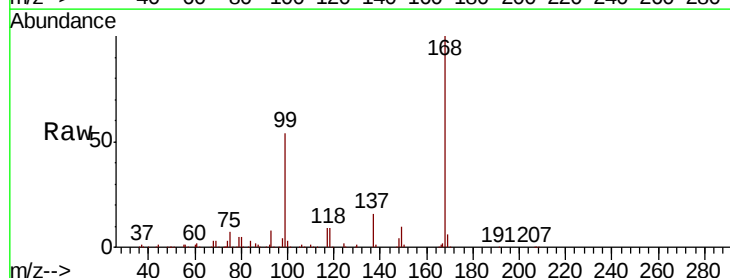
Tgt Ion: 117 Resp: 24225

Ion Ratio Lower Upper

117 100

119 5.3 77.4 116.2#

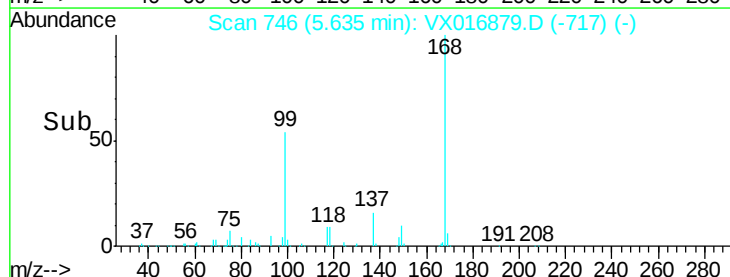
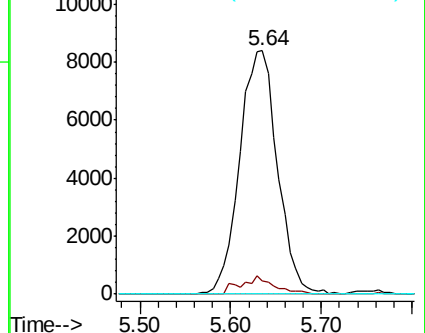
121 0.0 24.7 37.1#

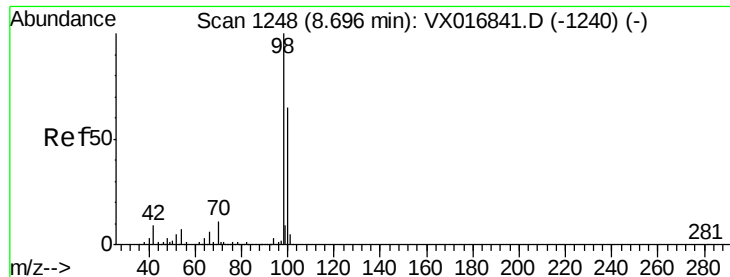


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

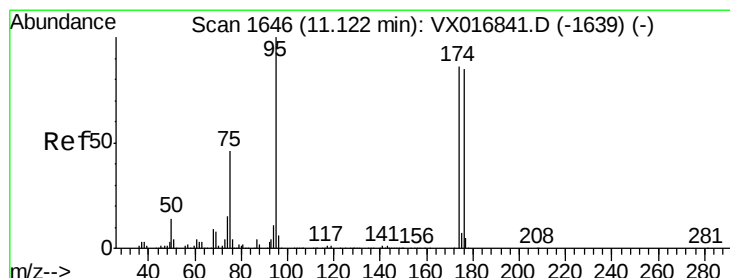
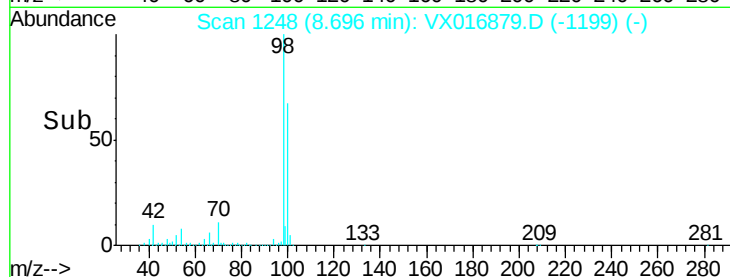
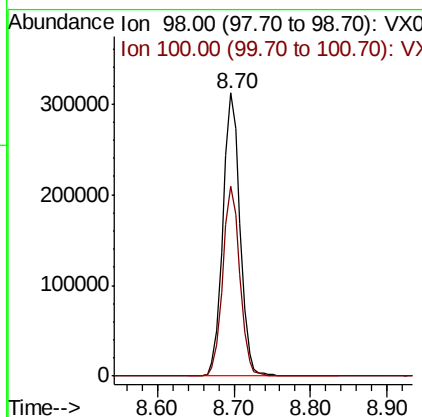
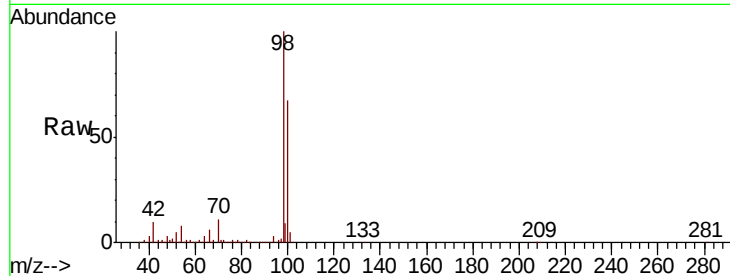




#50
Toluene-d8
Concen: 52.908 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX016879.D
Acq: 19 Jun 2020 15:06

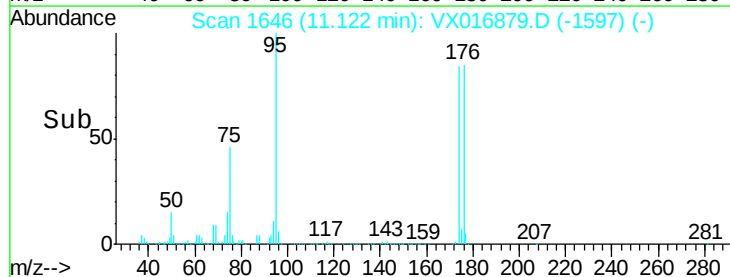
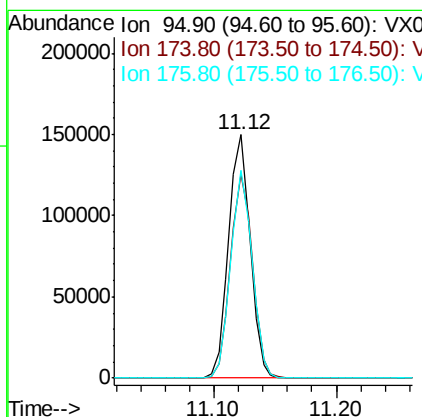
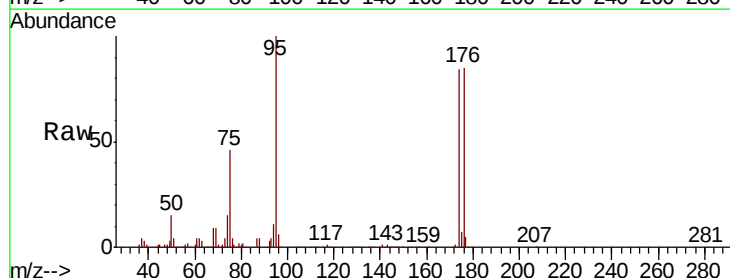
Instrument :
MSVOA_X
ClientSampleId :
LF015MW001-200615

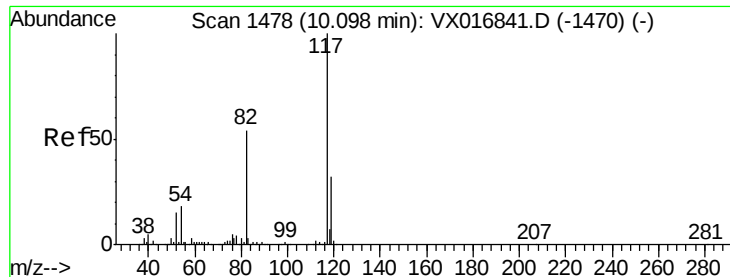
Tot Ion: 98 Resp: 484840
Ion Ratio Lower Upper
98 100
100 66.7 54.0 81.0



#62
4-Bromofluorobenzene
Concen: 52.098 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX016879.D
Acq: 19 Jun 2020 15:06

Tgt Ion: 95 Resp: 182919
Ion Ratio Lower Upper
95 100
174 85.2 0.0 174.2
176 84.3 0.0 170.0

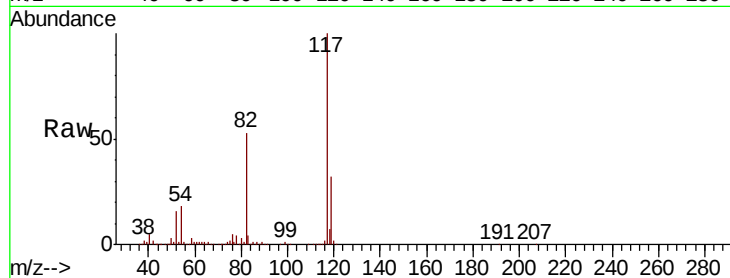




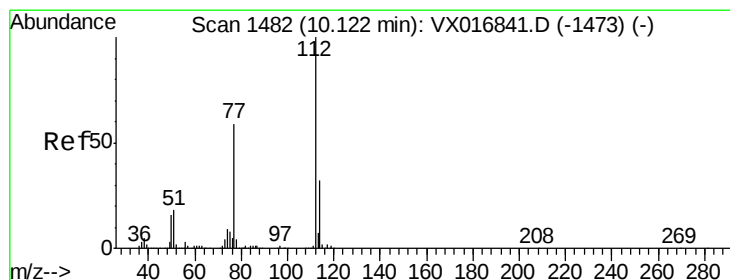
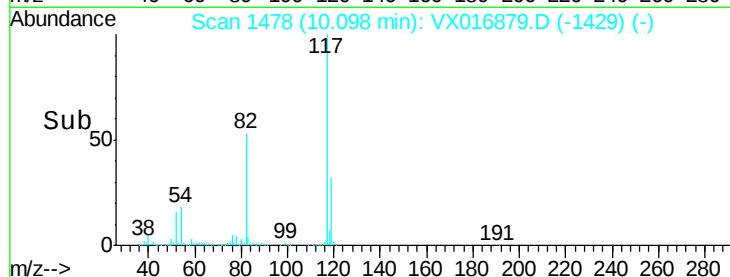
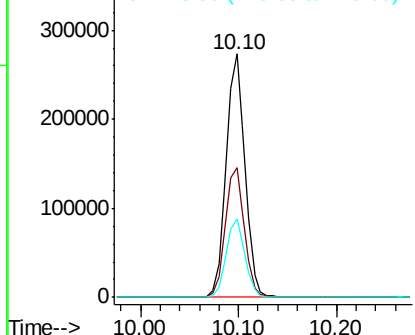
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016879.D
Acq: 19 Jun 2020 15:06

Instrument :
MSVOA_X
ClientSampleId :
LF015MW001-200615

Tot Ion:117 Resp: 364178
Ion Ratio Lower Upper
117 100
82 53.4 43.4 65.0
119 32.1 25.7 38.5

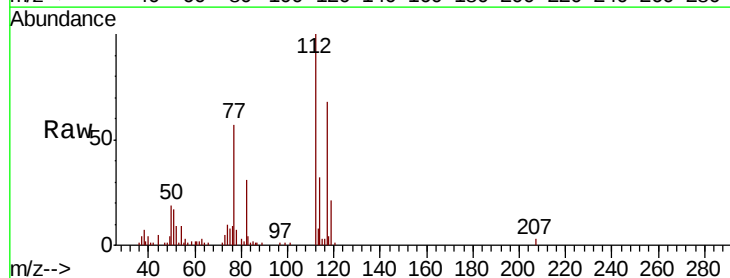


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

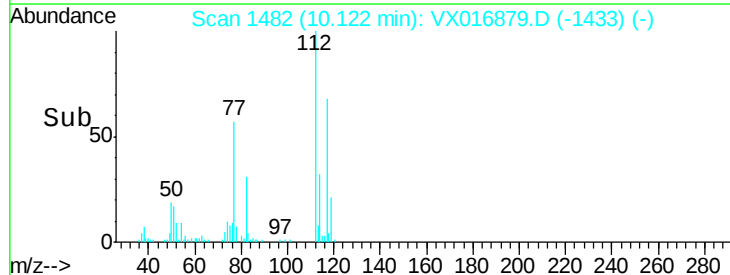
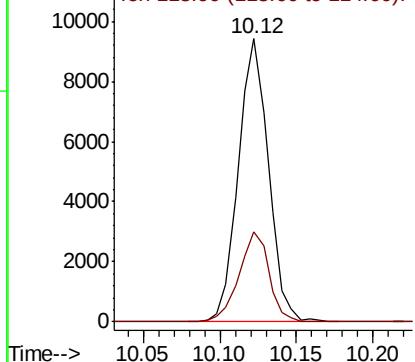


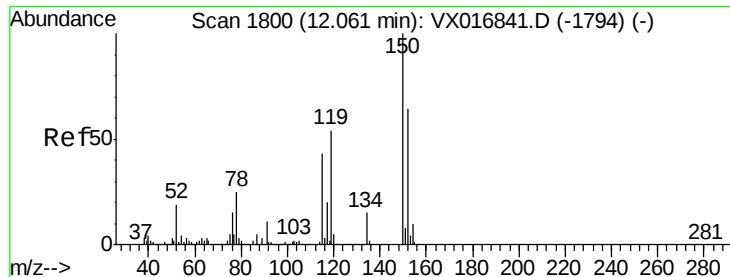
#65
Chlorobenzene
Concen: 1.746 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX016879.D
Acq: 19 Jun 2020 15:06

Tgt Ion:112 Resp: 12878
Ion Ratio Lower Upper
112 100
114 31.6 25.5 38.3



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: VX016879.D

Acq: 19 Jun 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

LF015MW001-200615

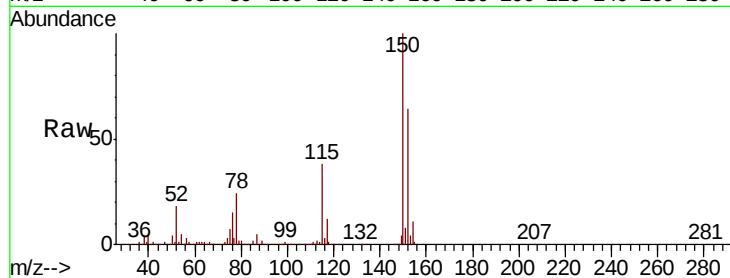
Tot Ion:152 Resp: 224944

Ion Ratio Lower Upper

152 100

115 58.6 40.9 122.8

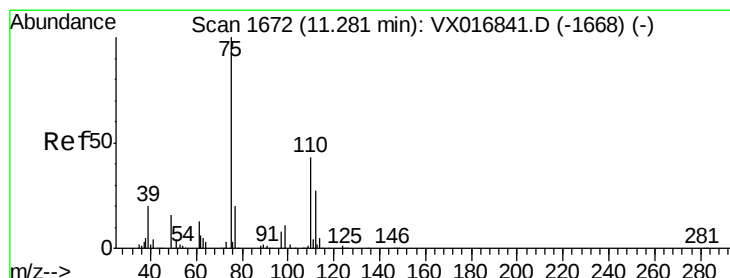
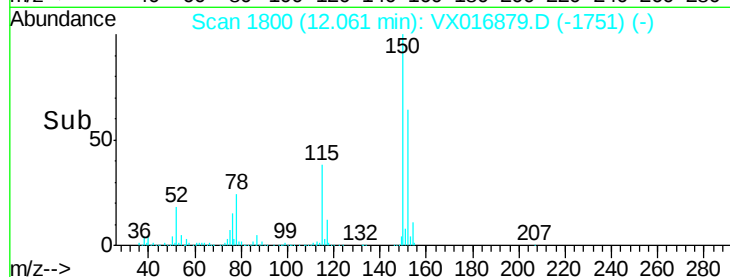
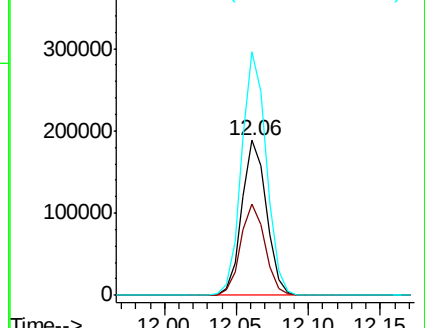
150 157.3 0.0 344.2



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



#76

1,2,3-Trichloropropane

Concen: 21.305 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016879.D

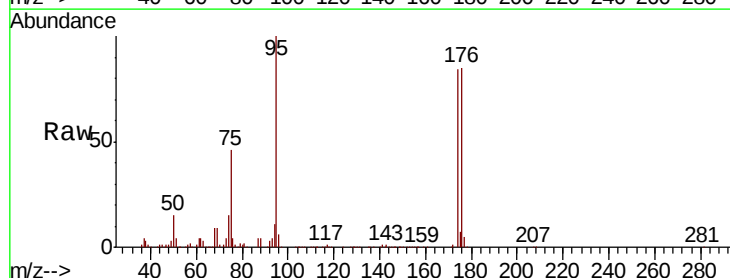
Acq: 19 Jun 2020 15:06

Tgt Ion: 75 Resp: 87526

Ion Ratio Lower Upper

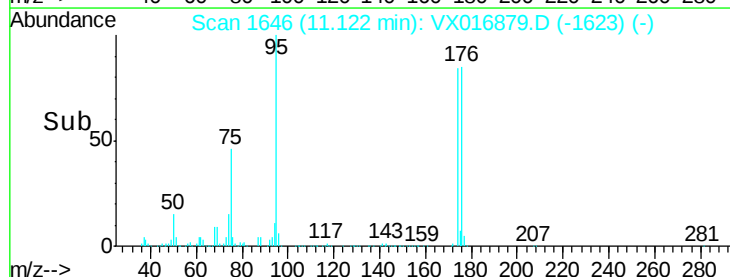
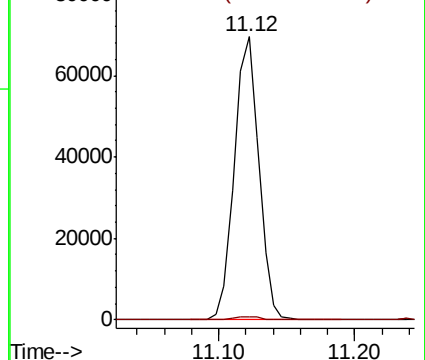
75 100

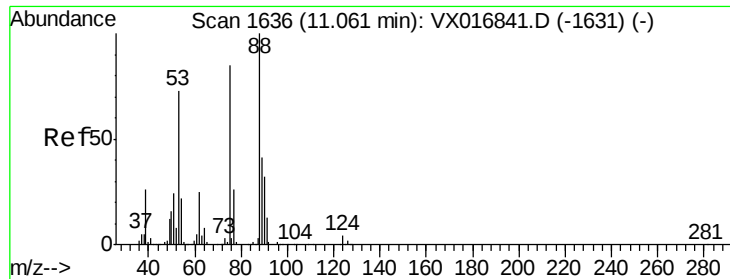
77 1.3 20.5 61.5#



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: 52.173 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016879.D

Acq: 19 Jun 2020 15:06

Instrument :

MSVOA_X

ClientSampleId :

LF015MW001-200615

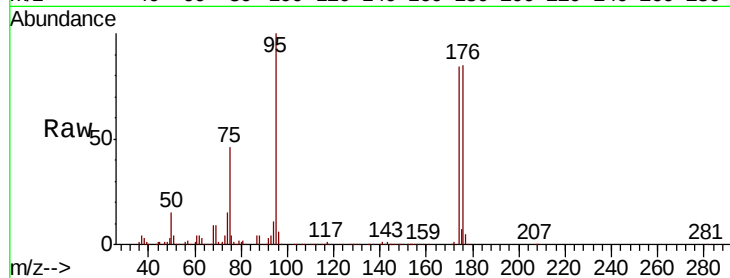
Tot Ion: 75 Resp: 87526

Ion Ratio Lower Upper

75 100

53 0.1 69.8 104.8#

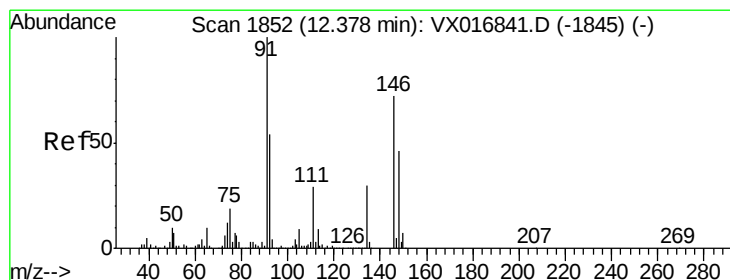
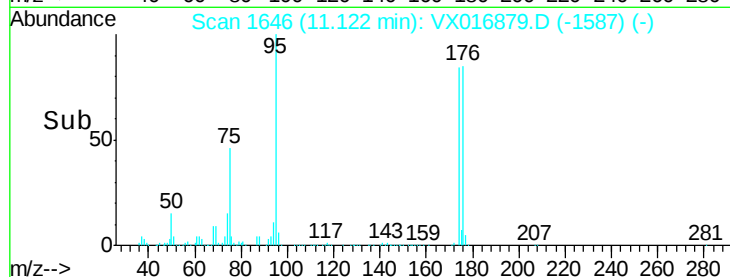
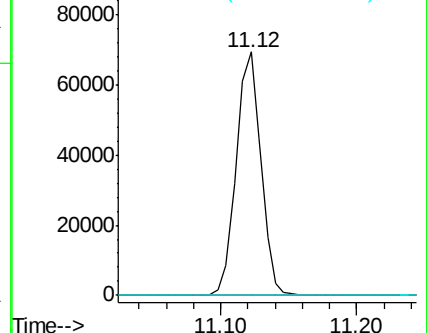
89 0.0 38.3 57.5#



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



#91

1,2-Dichlorobenzene

Concen: 0.427 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX016879.D

Acq: 19 Jun 2020 15:06

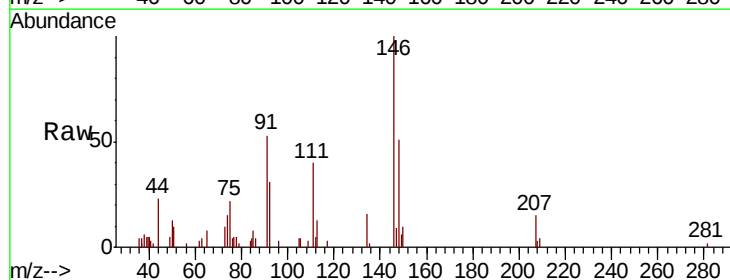
Tgt Ion: 146 Resp: 2978

Ion Ratio Lower Upper

146 100

111 39.9 20.9 62.7

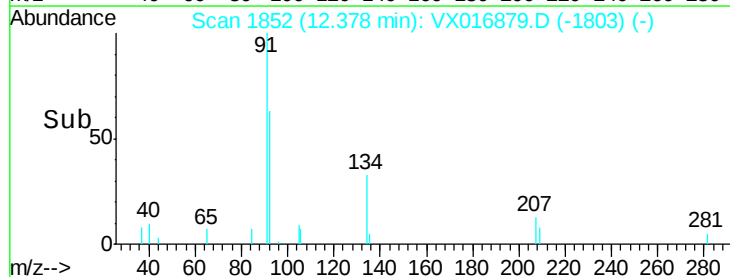
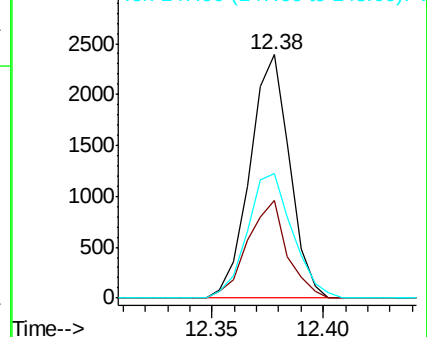
148 58.1 32.9 98.6

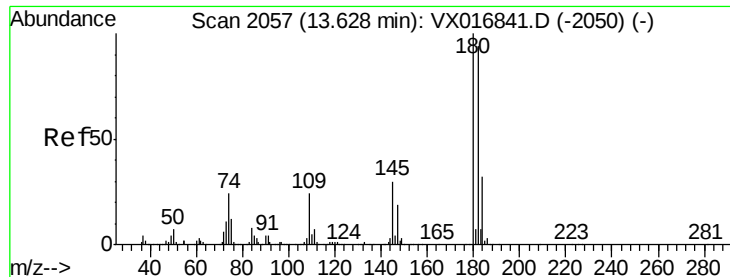


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

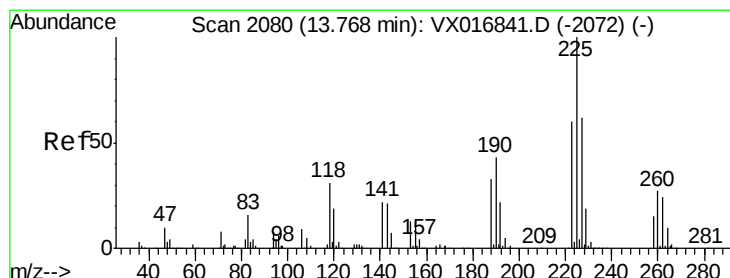
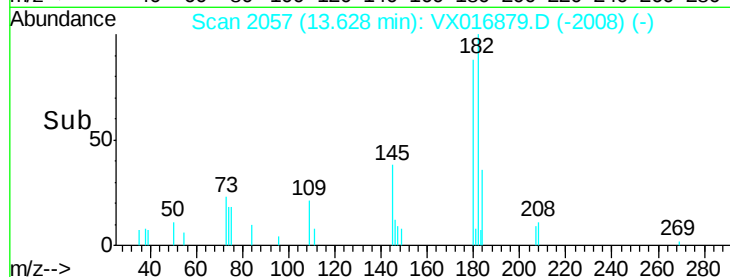
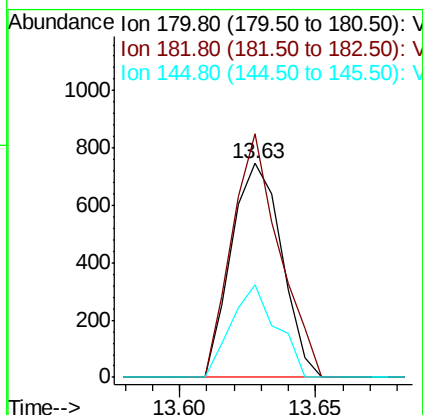
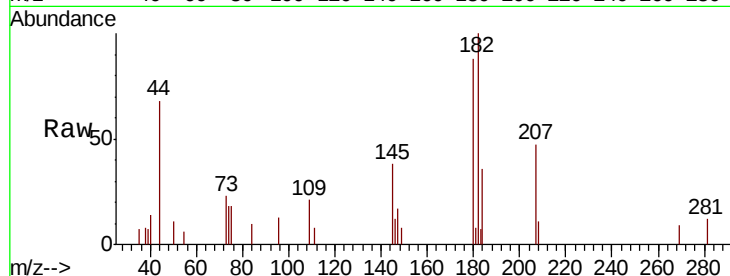




#93
 1,2,4-Trichlorobenzene
 Concen: 0.205 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX016879.D
 Acq: 19 Jun 2020 15:06

Instrument :
 MSVOA_X
 ClientSampleId :
 LF015MW001-200615

Tot Ion:180 Resp: 958
 Ion Ratio Lower Upper
 180 100
 182 106.9 47.7 143.1
 145 39.1 15.0 45.1



#94
 Hexachlorobutadiene
 Concen: 0.331 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX016879.D
 Acq: 19 Jun 2020 15:06

Tgt Ion:225 Resp: 699
 Ion Ratio Lower Upper
 225 100
 223 60.9 32.1 96.5
 227 54.4 32.3 96.8

