

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061220\
 Data File : VX016723.D
 Acq On : 12 Jun 2020 13:16
 Operator : JC/SP
 Sample : L2963-04DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 13 04:27:54 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	212267	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	338995	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	342276	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	181004	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	128949	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
35) Dibromofluoromethane	5.46	113	109904	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
50) Toluene-d8	8.70	98	411955	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
62) 4-Bromofluorobenzene	11.12	95	169622	54.03	ug/l	0.00
Spiked Amount			Recovery	=	108.06%	

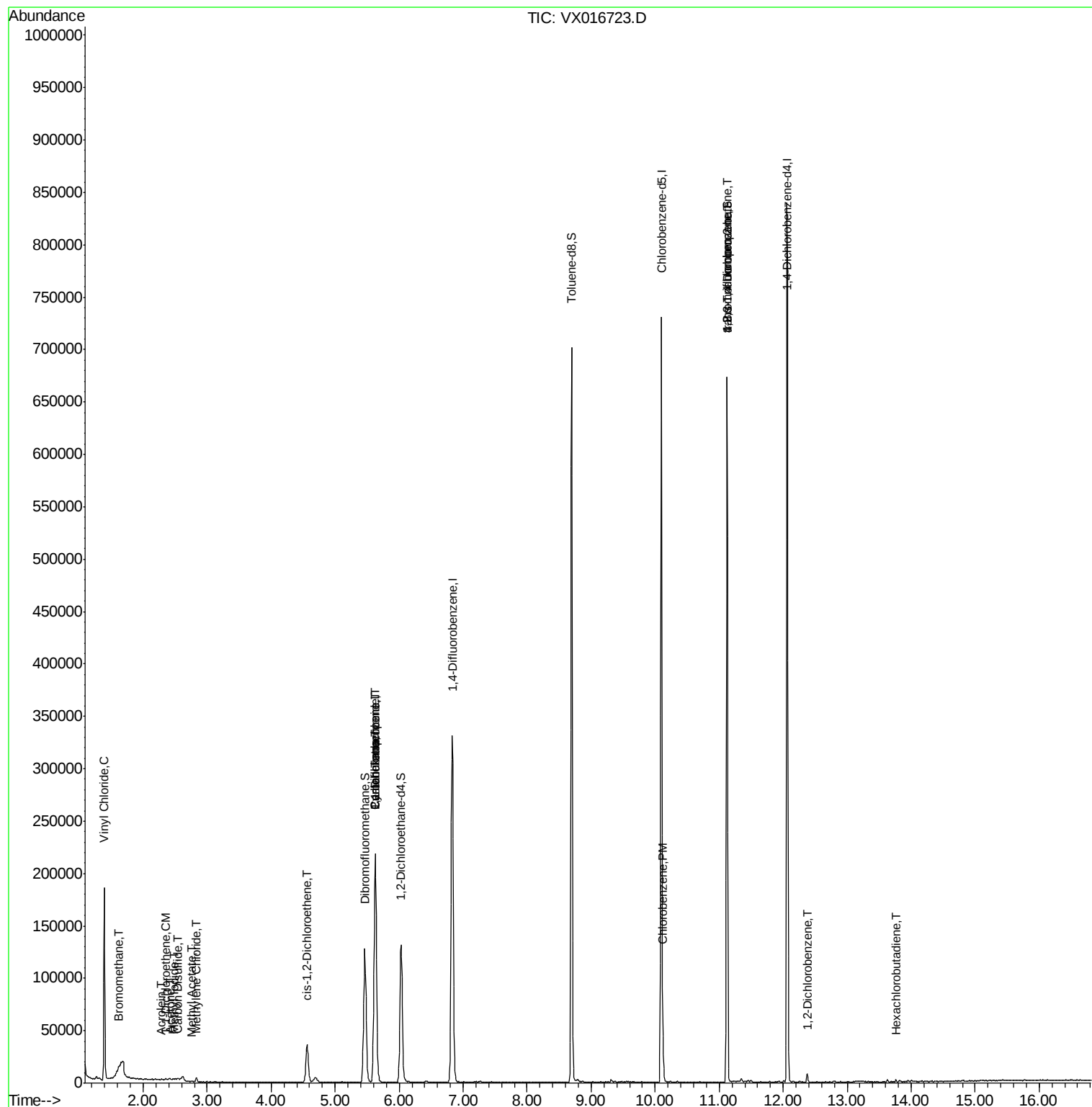
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	104922	39.302	ug/l	99
5) Bromomethane	1.62	94	821	0.632	ug/l #	73
10) Methyl Iodide	2.48	142	668	3.327	ug/l #	88
12) 1,1-Dichloroethene	2.36	96	500	0.245	ug/l #	43
13) Acrolein	2.27	56	359	1.248	ug/l #	30
16) Acetone	2.42	43	1252	1.084	ug/l #	88
17) Carbon Disulfide	2.54	76	1597	0.263	ug/l #	61
18) Methyl Acetate	2.76	43	720	0.243	ug/l #	51
20) Methylene Chloride	2.83	84	1623	0.679	ug/l #	85
27) cis-1,2-Dichloroethene	4.56	96	22643	8.664	ug/l	88
31) Cyclohexane	5.62	56	3914	1.068	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	14602	4.549	ug/l #	51
38) Carbon Tetrachloride	5.63	117	20352	6.034	ug/l #	16
65) Chlorobenzene	10.12	112	13737	1.969	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	82537	20.745	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	82537	51.031	ug/l #	14
91) 1,2-Dichlorobenzene	12.38	146	2404	0.435	ug/l	94
94) Hexachlorobutadiene	13.77	225	428	0.297	ug/l	71

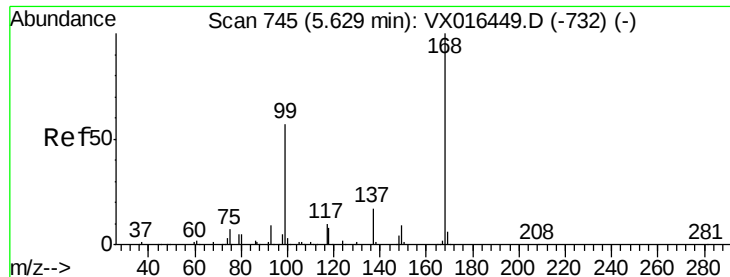
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

Instrument :

MSVOA_X

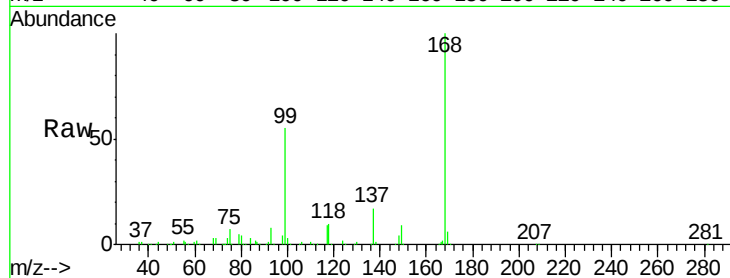
ClientSampleId :

Tot Ion:168 Resp: 212267

Ion Ratio Lower Upper

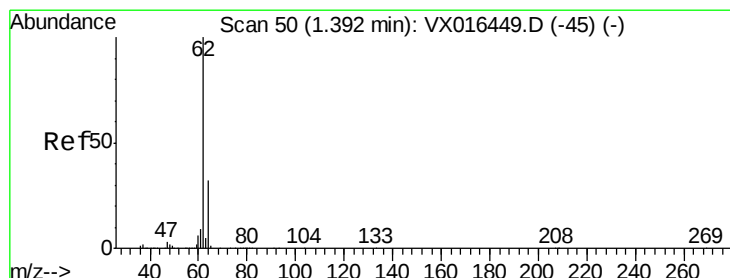
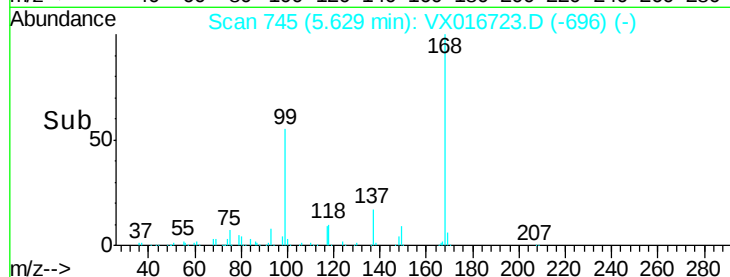
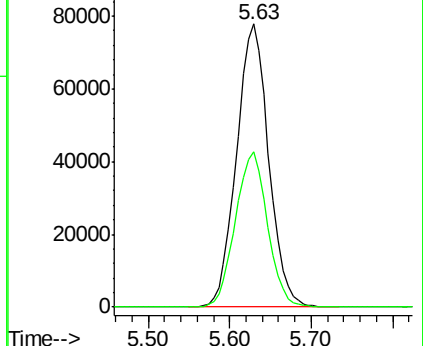
168 100

99 54.7 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 39.302 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016723.D

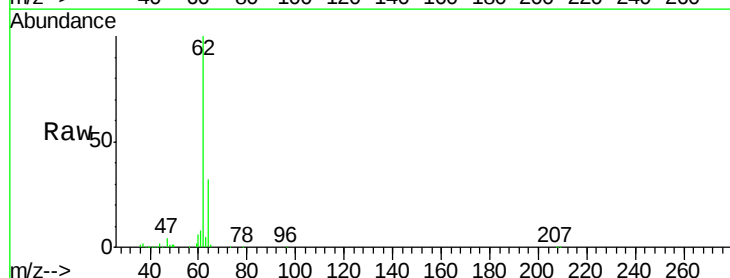
Acq: 12 Jun 2020 13:16

Tgt Ion: 62 Resp: 104922

Ion Ratio Lower Upper

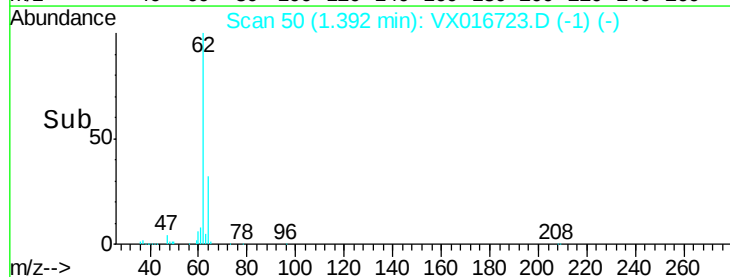
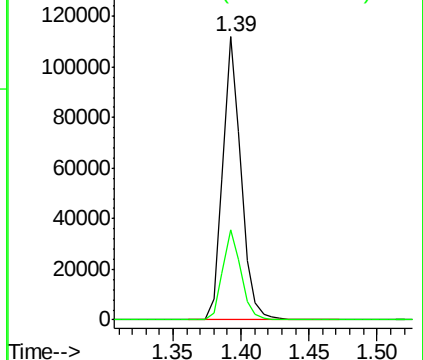
62 100

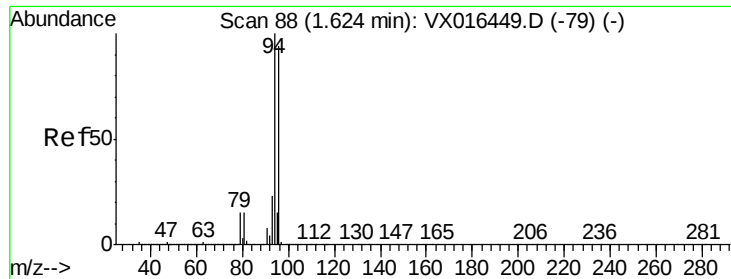
64 31.7 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.632 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

Instrument :

MSVOA_X

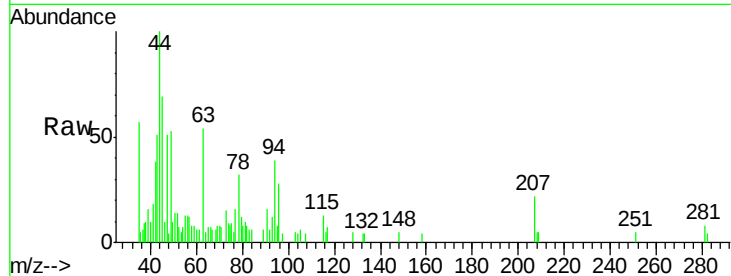
ClientSampleId :

Tot Ion: 94 Resp: 821

Ion Ratio Lower Upper

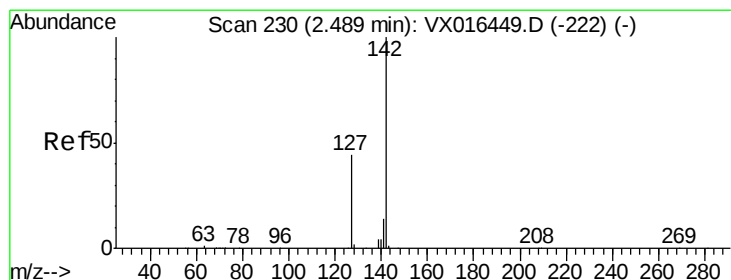
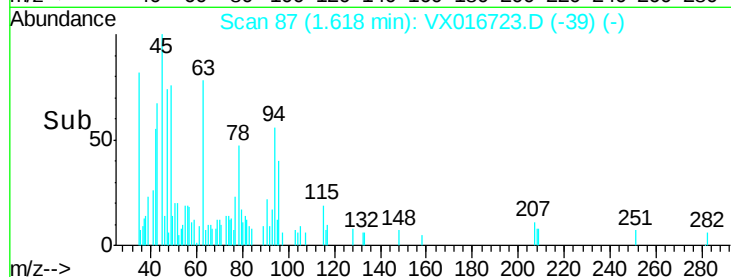
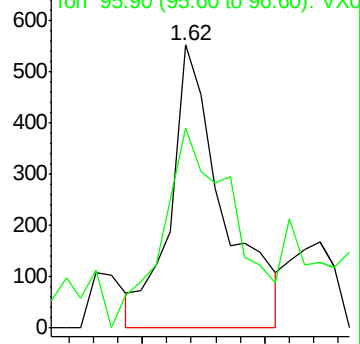
94 100

96 67.9 75.1 112.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 3.327 ug/l

RT: 2.48 min Scan# 229

Delta R.T. -0.01 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

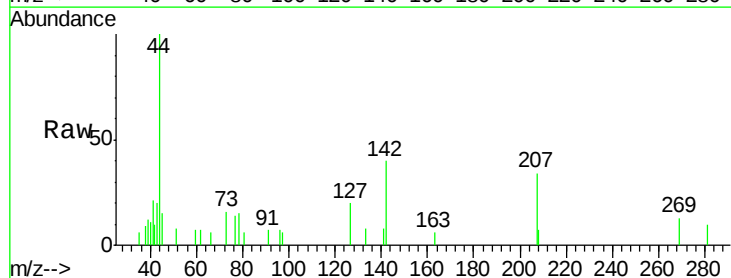
Tgt Ion: 142 Resp: 668

Ion Ratio Lower Upper

142 100

127 48.7 35.3 52.9

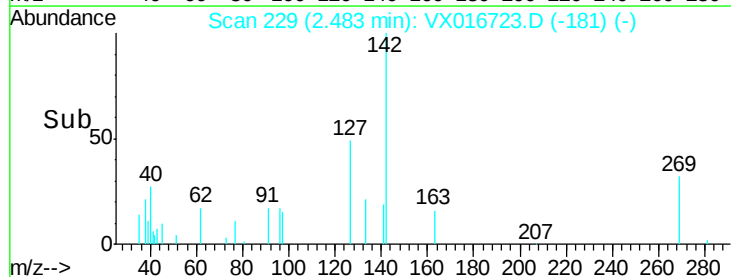
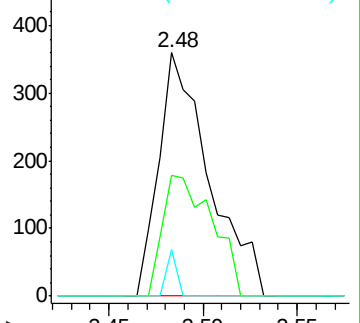
141 3.7 11.4 17.2#

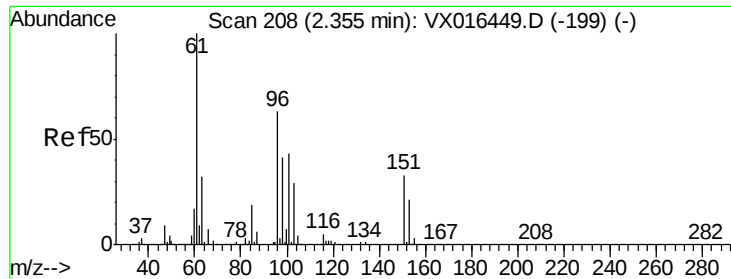


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 0.245 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

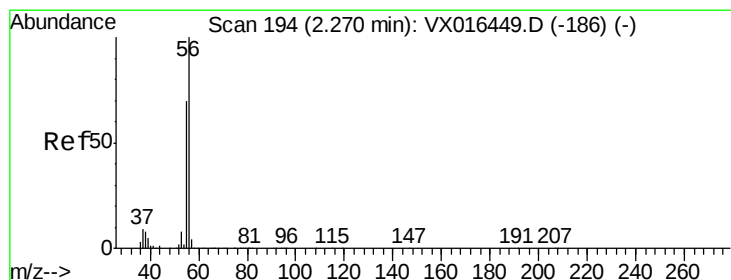
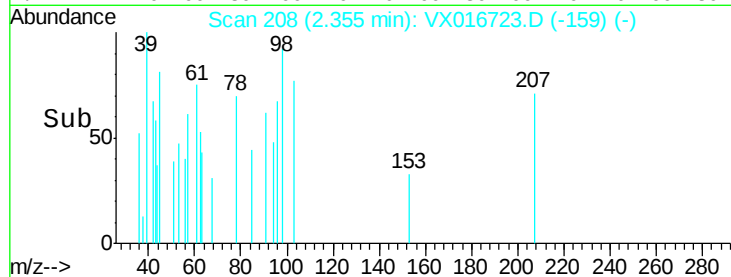
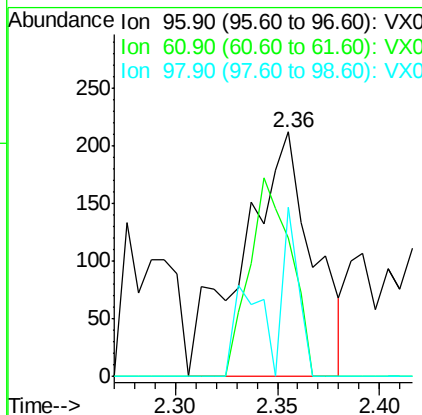
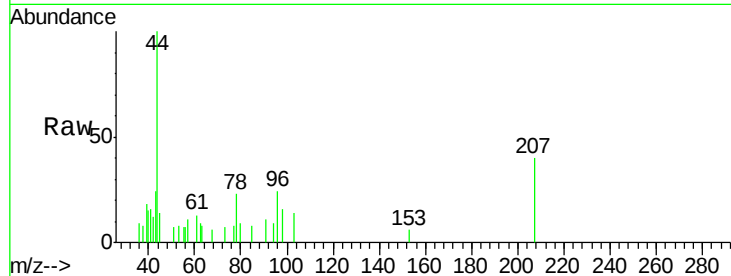
Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 500

Ion	Ratio	Lower	Upper
96	100		
61	56.6	126.6	189.8#
98	69.3	51.3	76.9



#13

Acrolein

Concen: 1.248 ug/l

RT: 2.27 min Scan# 194

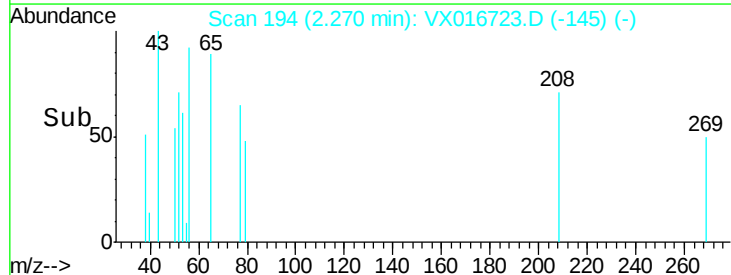
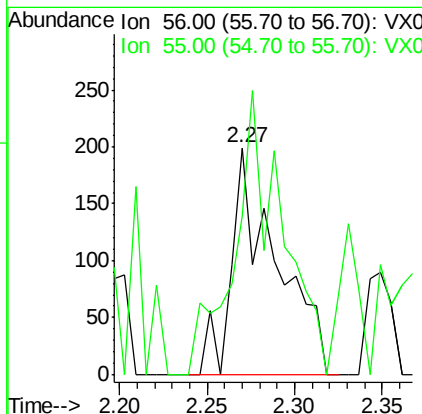
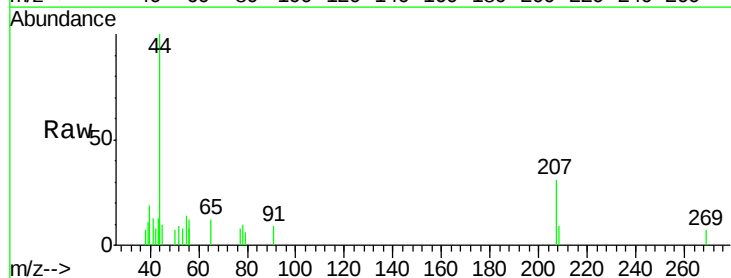
Delta R.T. -0.00 min

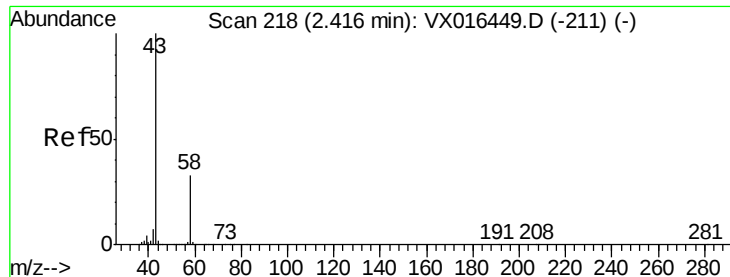
Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

Tgt Ion: 56 Resp: 359

Ion	Ratio	Lower	Upper
56	100		
55	131.5	58.3	87.5#





#16

Acetone

Concen: 1.084 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

Instrument :

MSVOA_X

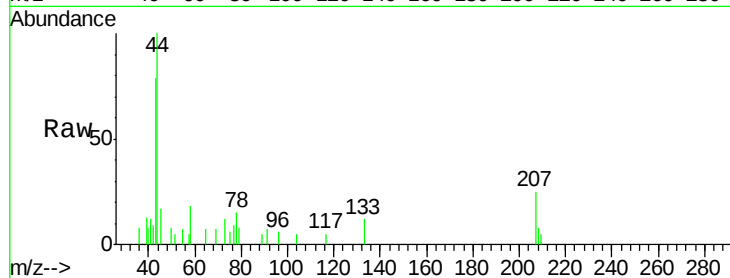
ClientSampleId :

Tot Ion: 43 Resp: 1252

Ion Ratio Lower Upper

43 100

58 26.0 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

800

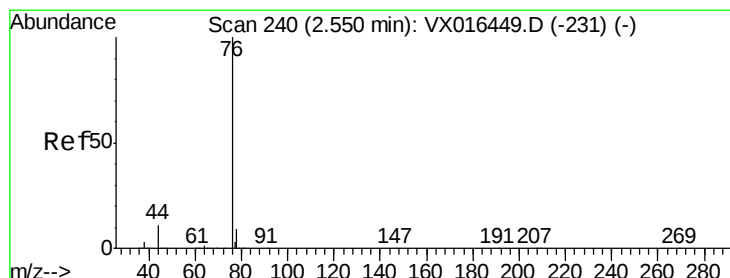
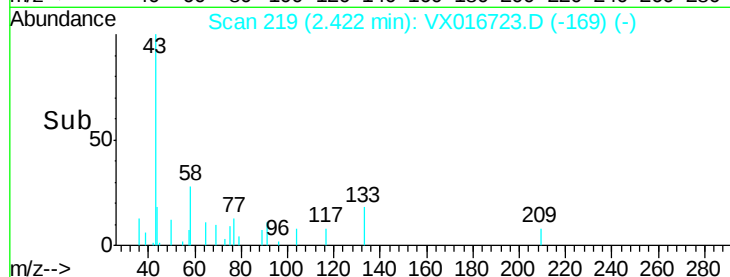
600

400

200

0

Time--> 2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.263 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX016723.D

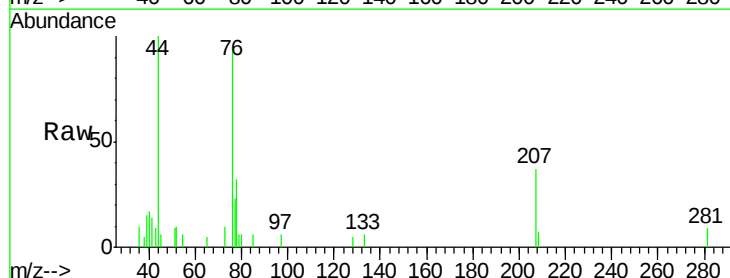
Acq: 12 Jun 2020 13:16

Tgt Ion: 76 Resp: 1597

Ion Ratio Lower Upper

76 100

78 23.4 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.54

1000

800

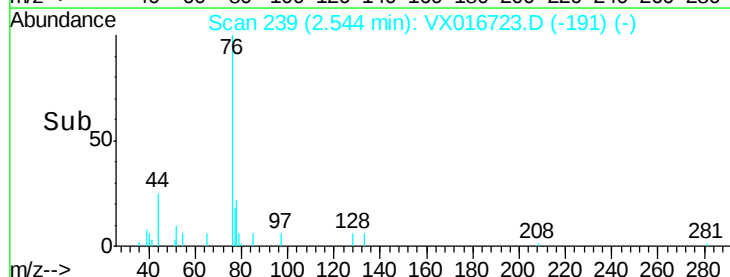
600

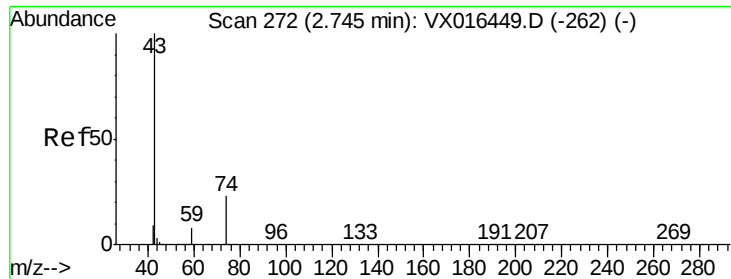
400

200

0

Time--> 2.50 2.55

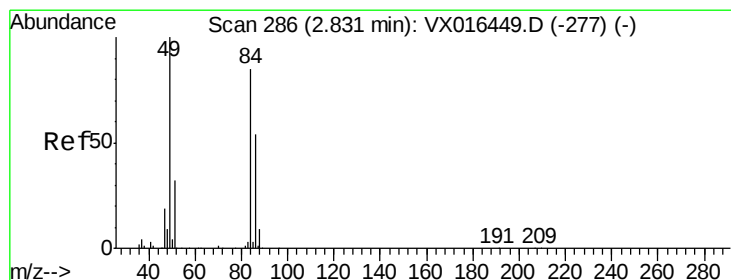
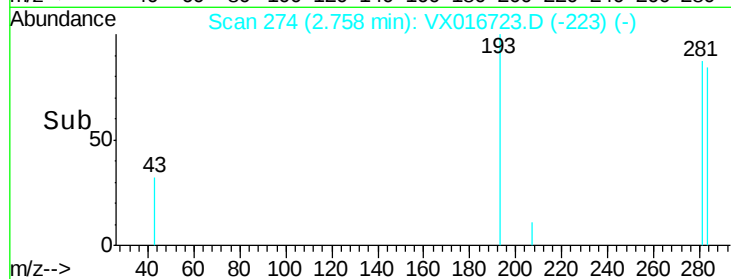
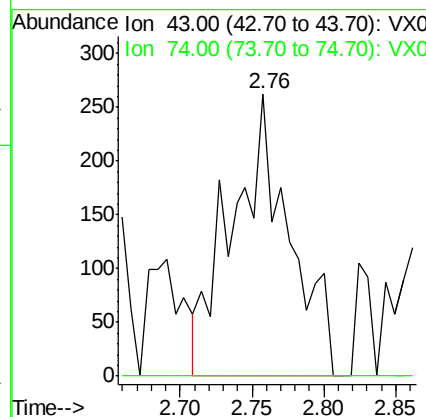
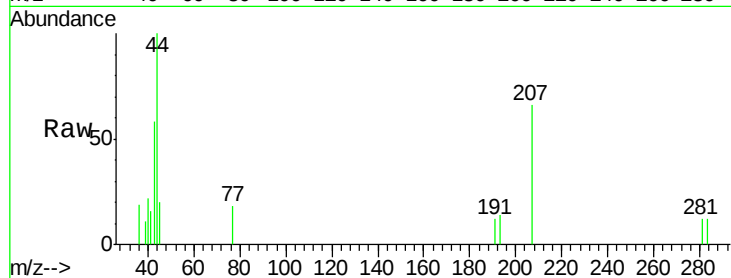




#18
Methyl Acetate
Concen: 0.243 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX016723.D
Acq: 12 Jun 2020 13:16

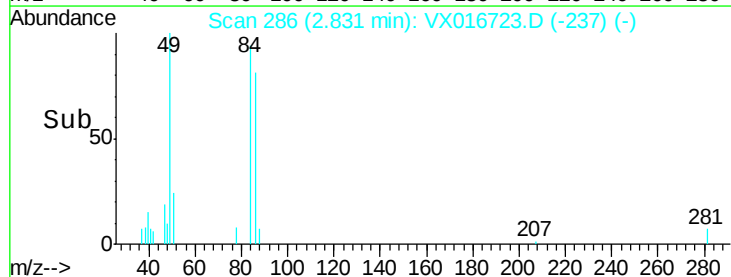
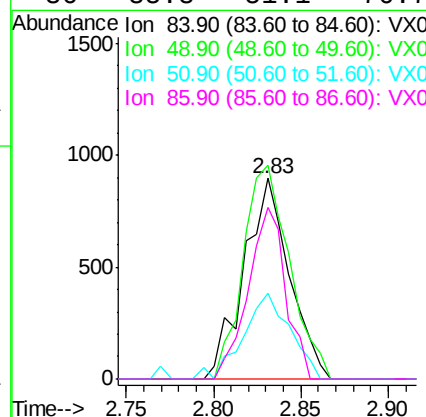
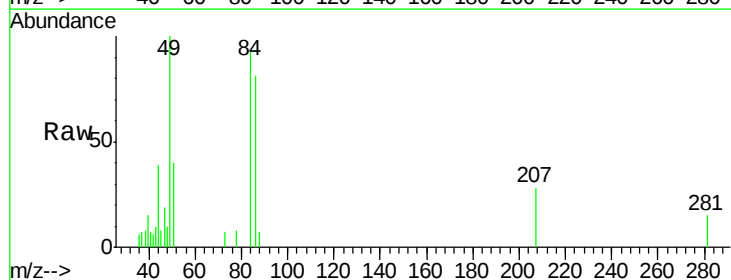
Instrument :
MSVOA_X
ClientSampled :

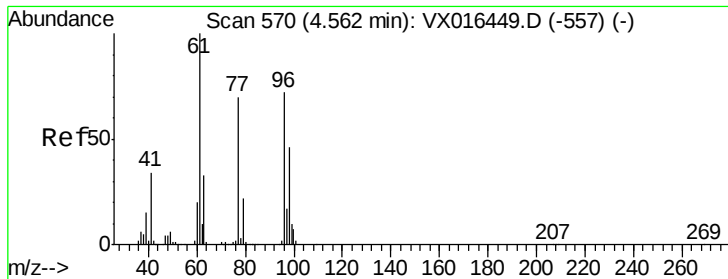
Tot Ion: 43 Resp: 720
Ion Ratio Lower Upper
43 100
74 0.0 19.7 29.5#



#20
Methylene Chloride
Concen: 0.679 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX016723.D
Acq: 12 Jun 2020 13:16

Tgt Ion: 84 Resp: 1623
Ion Ratio Lower Upper
84 100
49 106.6 94.5 141.7
51 42.7 30.2 45.4
86 85.8 51.1 76.7#



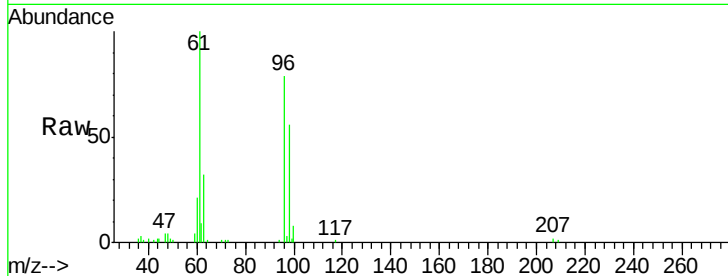


#27

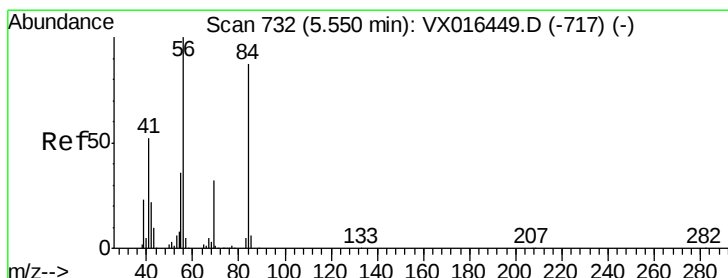
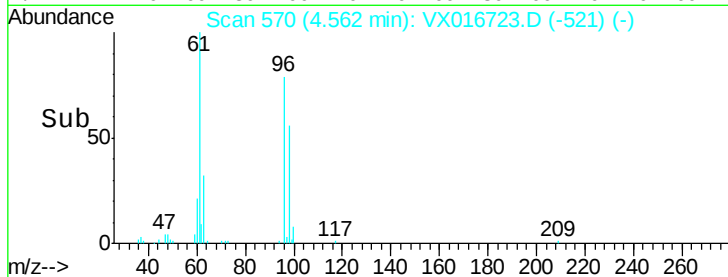
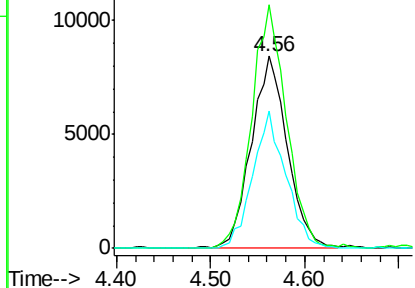
cis-1,2-Dichloroethene
Concen: 8.664 ug/l
RT: 4.56 min Scan# 570
Delta R.T. -0.00 min
Lab File: VX016723.D
Acq: 12 Jun 2020 13:16

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	96	Resp	22643
Ion	Ratio	Lower	Upper
96	100		
61	122.3	0.0	284.6
98	65.5	0.0	127.2



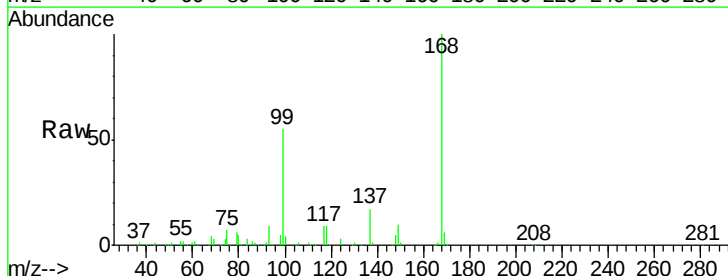
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



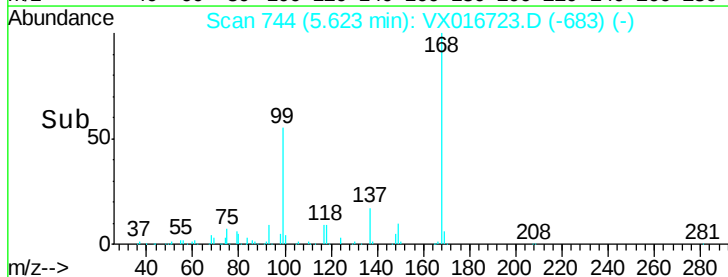
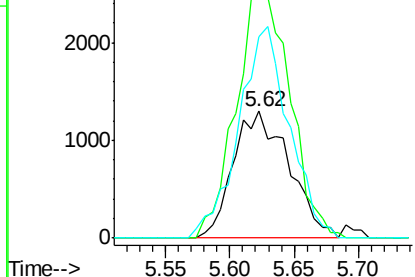
#31

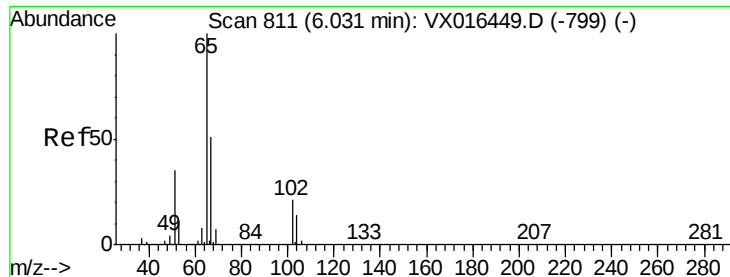
Cyclohexane
Concen: 1.068 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX016723.D
Acq: 12 Jun 2020 13:16

Tgt Ion	56	Resp	3914
Ion	Ratio	Lower	Upper
56	100		
69	191.6	25.7	38.5#
84	158.5	70.0	105.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.917 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

Instrument :

MSVOA_X

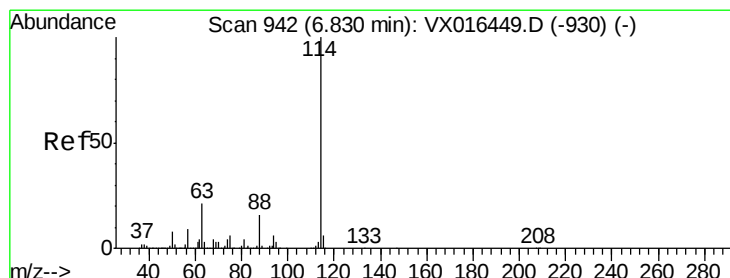
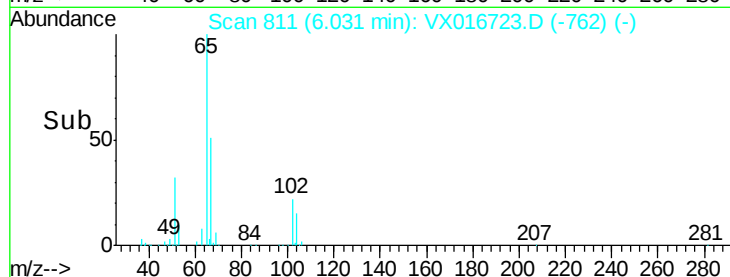
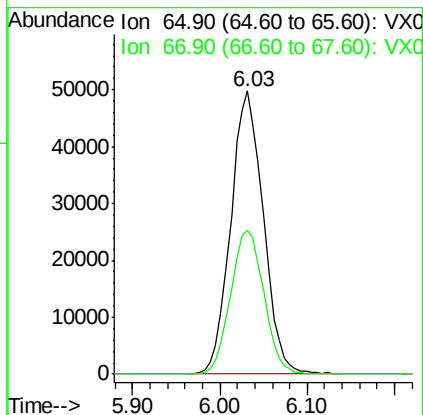
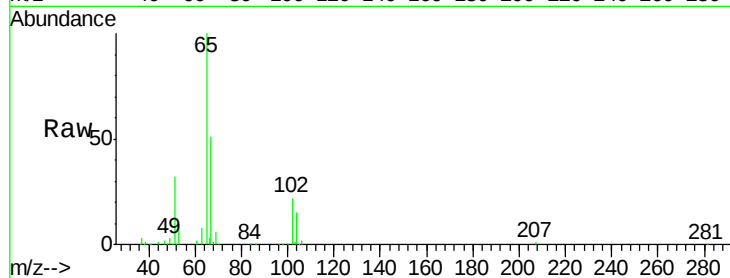
ClientSampled :

Tot Ion: 65 Resp: 128949

Ion Ratio Lower Upper

65 100

67 51.8 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

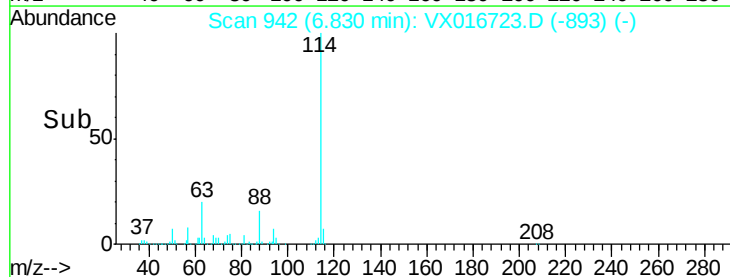
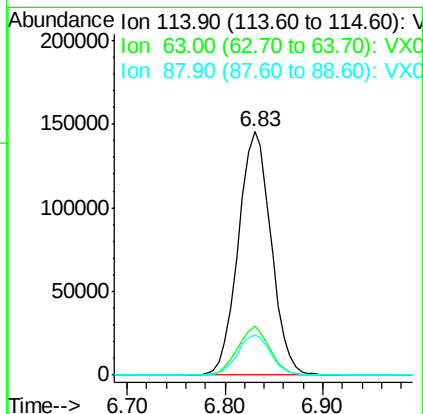
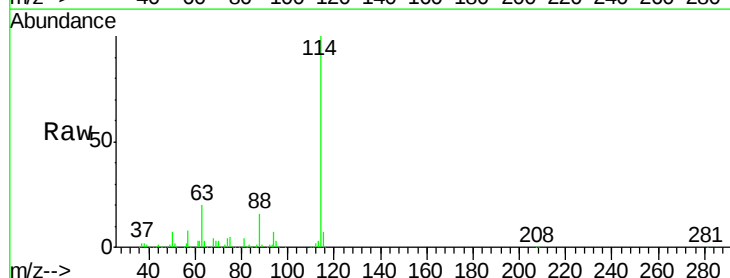
Tgt Ion: 114 Resp: 338995

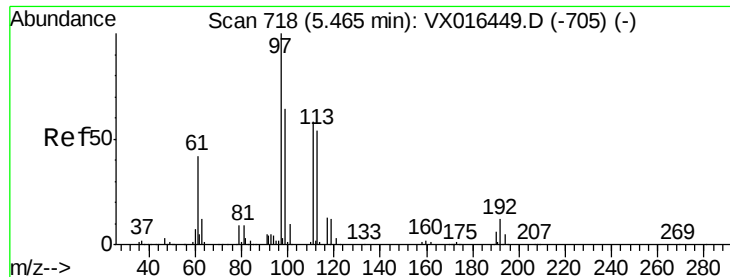
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 16.5 0.0 32.8

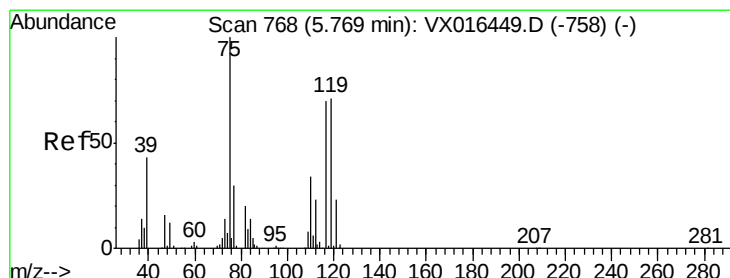
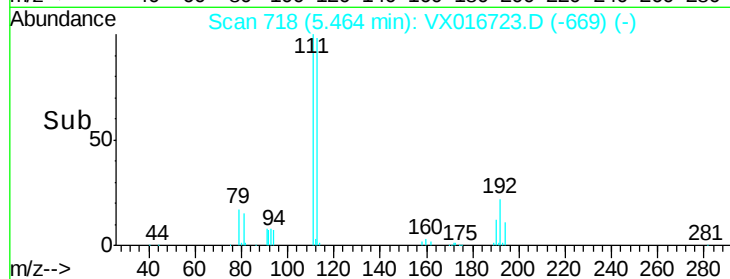
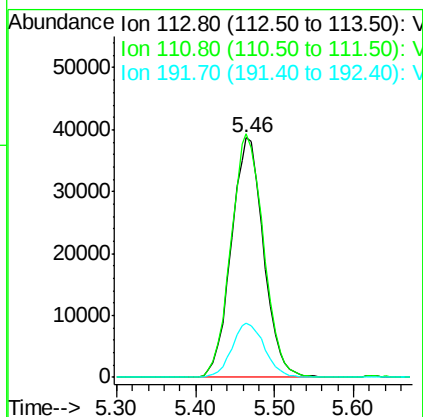
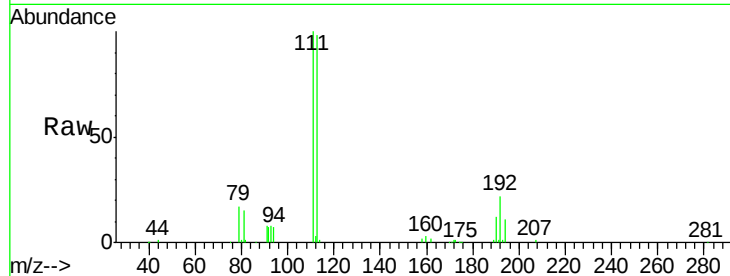




#35
 Dibromofluoromethane
 Concen: 52.653 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX016723.D
 Acq: 12 Jun 2020 13:16

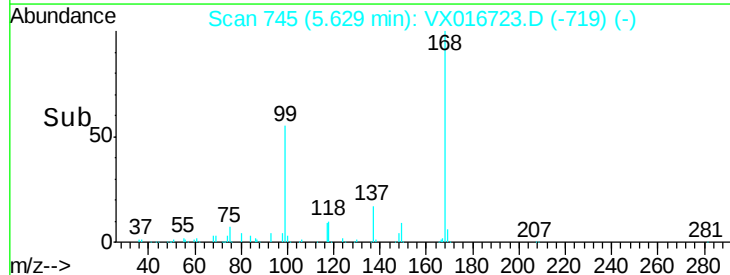
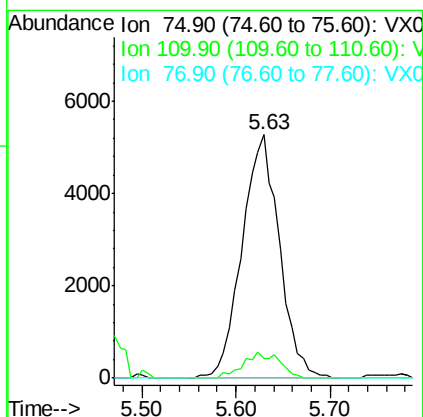
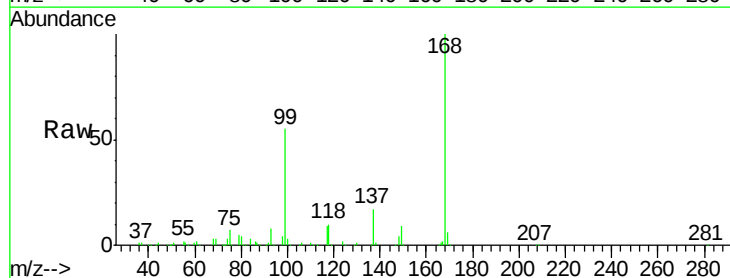
Instrument :
 MSVOA_X
 ClientSampled :

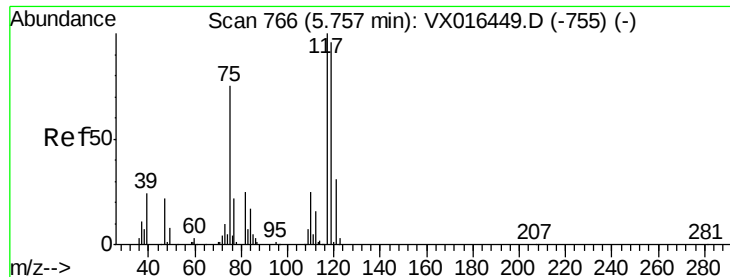
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.0	124.6
192	22.8	17.7	26.5



#36
 1,1-Dichloropropene
 Concen: 4.549 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016723.D
 Acq: 12 Jun 2020 13:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	17.4	52.3#
77	0.0	24.2	36.4#

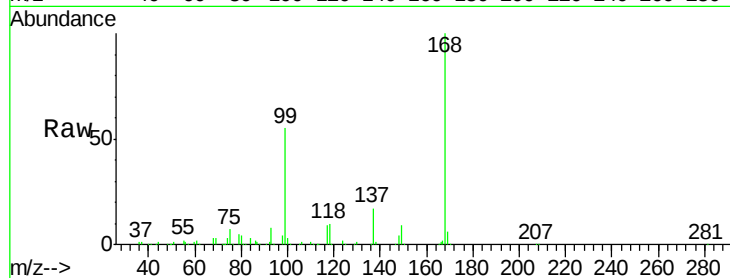




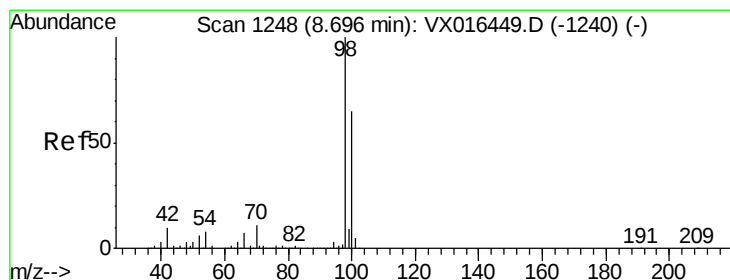
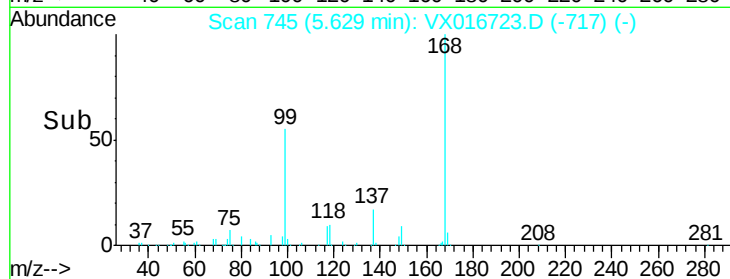
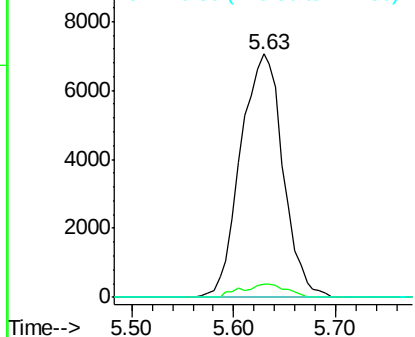
#38
Carbon Tetrachloride
Concen: 6.034 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016723.D
Acq: 12 Jun 2020 13:16

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 20352
Ion Ratio Lower Upper
117 100
119 5.3 76.3 114.5#
121 0.0 24.6 37.0#

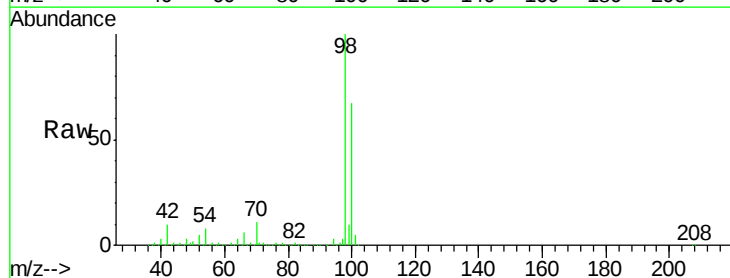


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

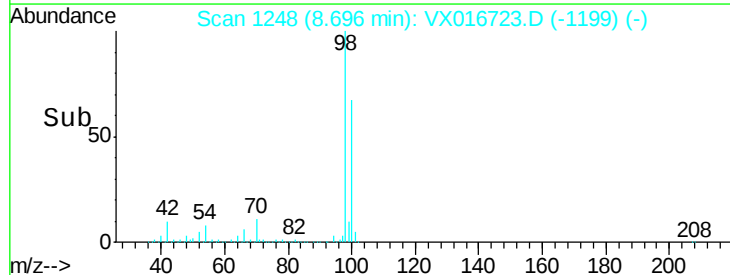
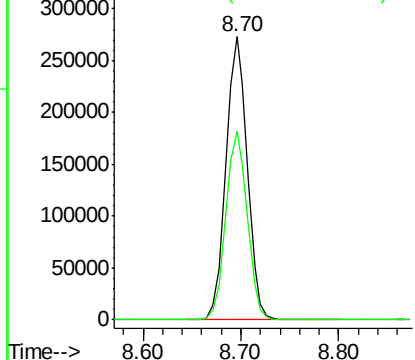


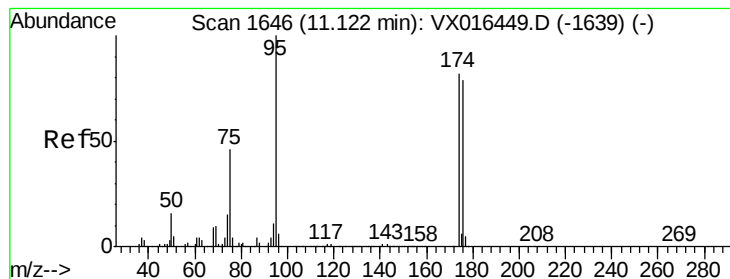
#50
Toluene-d8
Concen: 50.706 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016723.D
Acq: 12 Jun 2020 13:16

Tgt Ion: 98 Resp: 411955
Ion Ratio Lower Upper
98 100
100 66.9 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 54.033 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

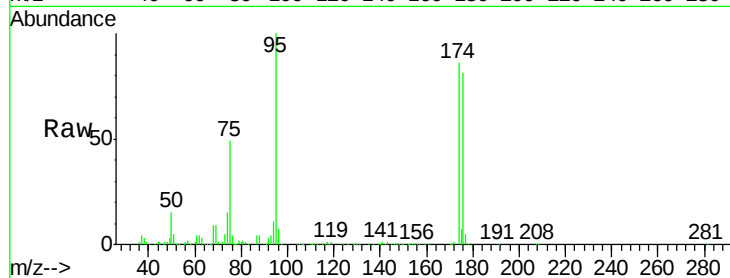
Tot Ion: 95 Resp: 169622

Ion Ratio Lower Upper

95 100

174 87.1 0.0 163.0

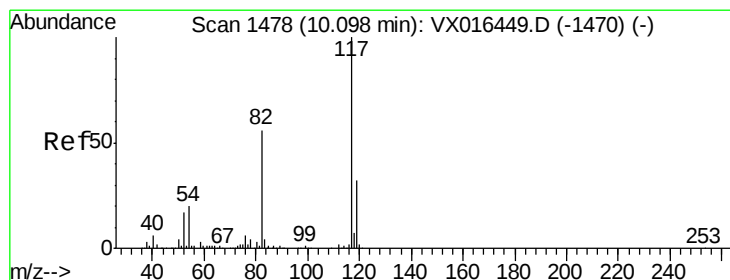
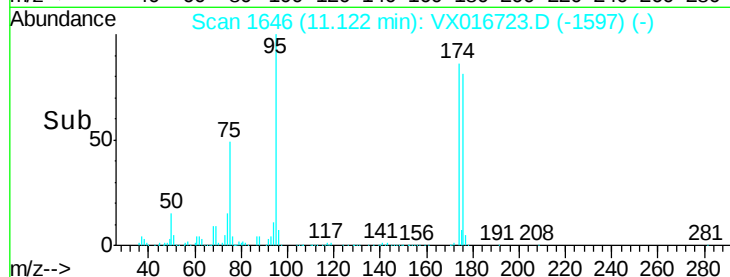
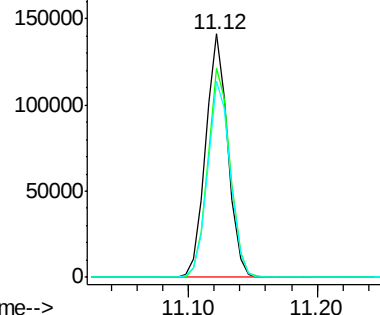
176 82.2 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX016449.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX016449.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX016449.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

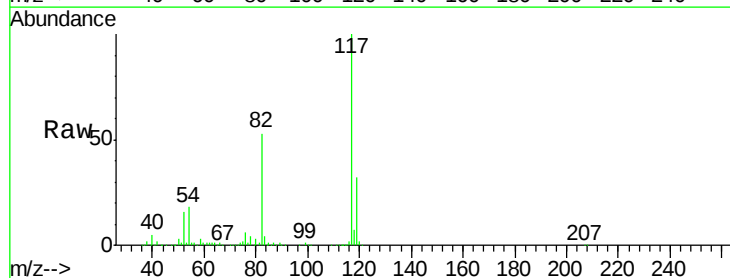
Tgt Ion: 117 Resp: 342276

Ion Ratio Lower Upper

117 100

82 52.8 45.0 67.6

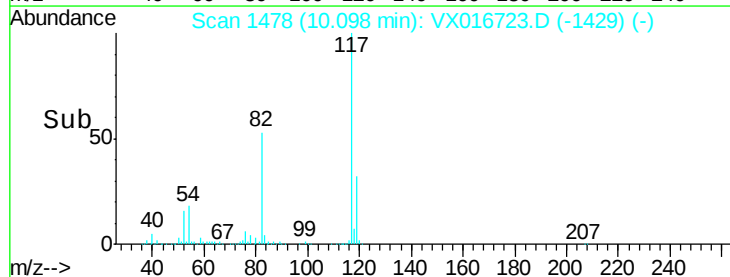
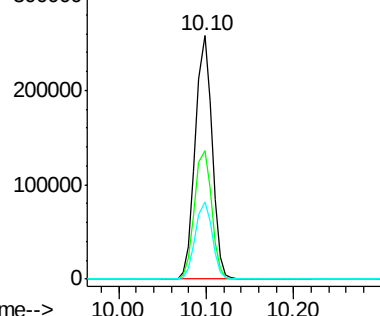
119 31.6 25.8 38.8

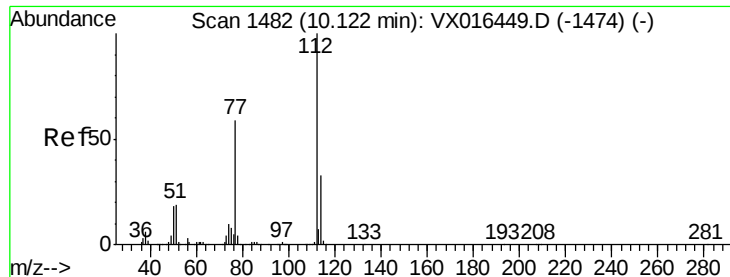


Abundance Ion 116.90 (116.60 to 117.60): VX016449.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX016449.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX016449.D (-1470) (-)

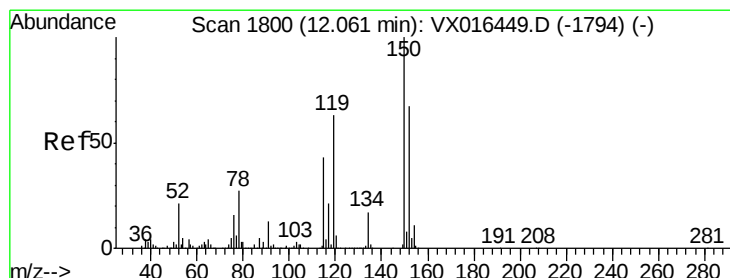
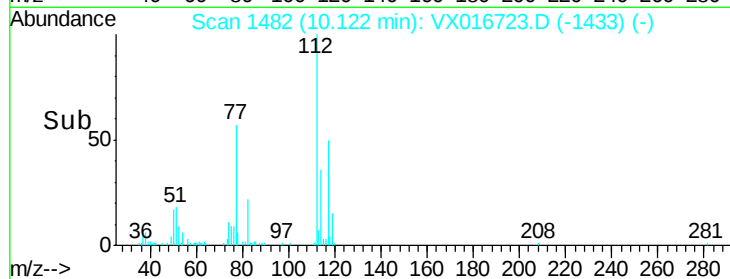
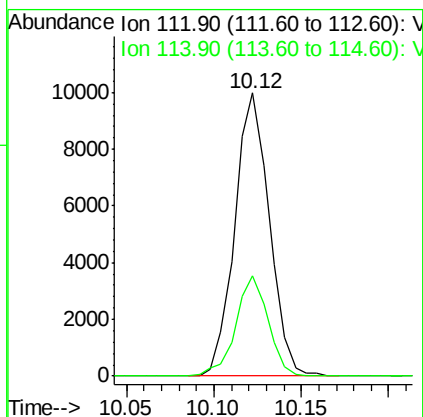
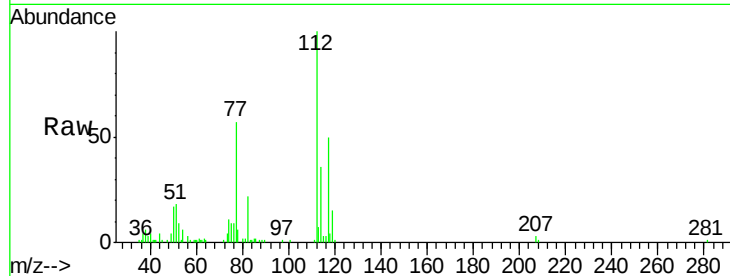




#65
Chlorobenzene
Concen: 1.969 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX016723.D
Acq: 12 Jun 2020 13:16

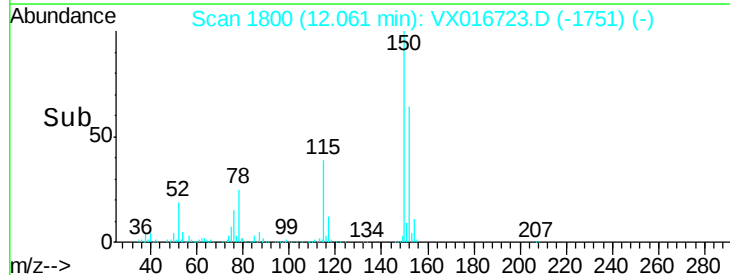
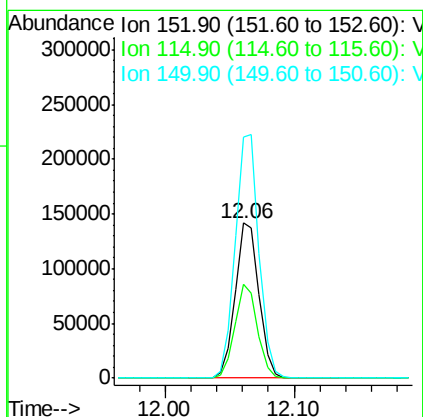
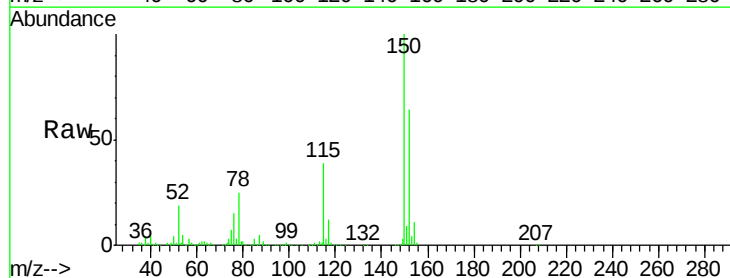
Instrument :
MSVOA_X
ClientSampled :

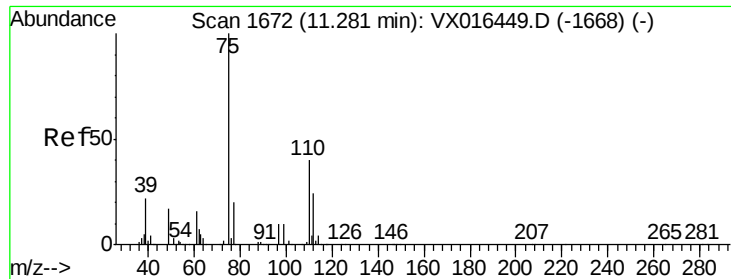
Tot Ion:112 Resp: 13737
Ion Ratio Lower Upper
112 100
114 35.5 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016723.D
Acq: 12 Jun 2020 13:16

Tgt Ion:152 Resp: 181004
Ion Ratio Lower Upper
152 100
115 58.4 39.9 119.6
150 157.7 0.0 341.0





#76

1,2,3-Trichloropropane

Concen: 20.745 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

Instrument :

MSVOA_X

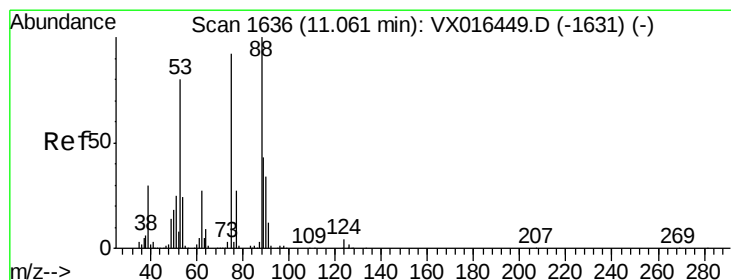
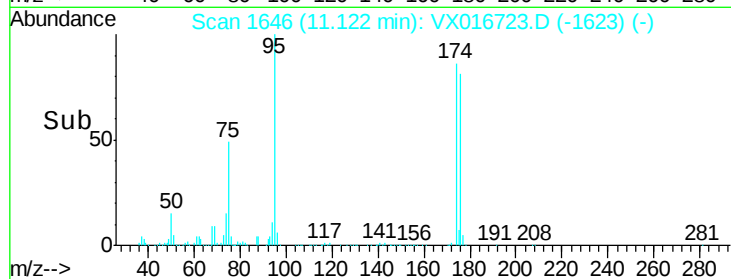
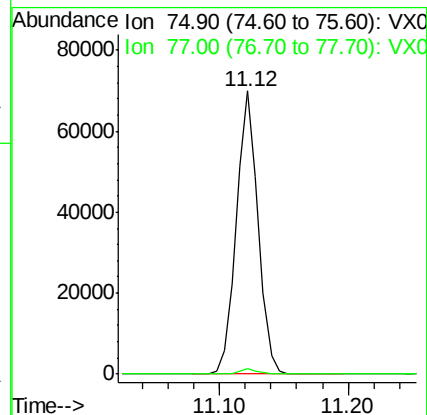
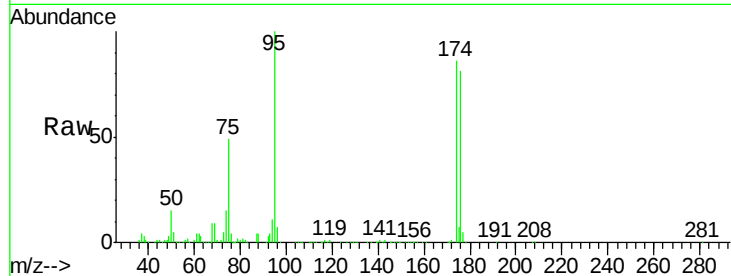
ClientSampleId :

Tot Ion: 75 Resp: 82537

Ion Ratio Lower Upper

75 100

77 1.5 21.3 63.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.031 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

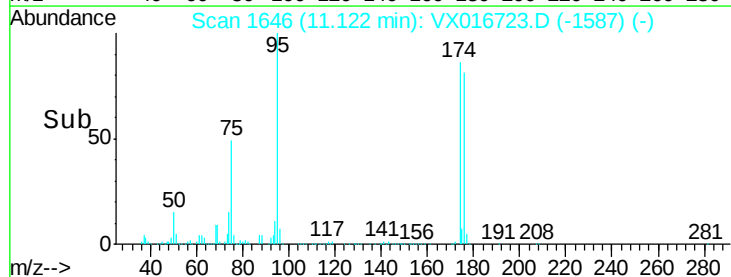
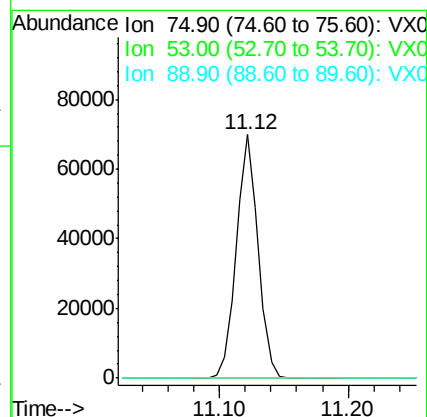
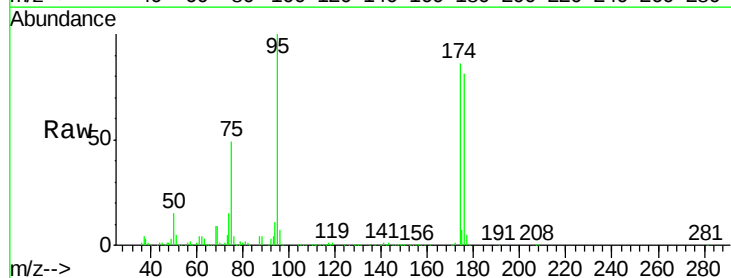
Tgt Ion: 75 Resp: 82537

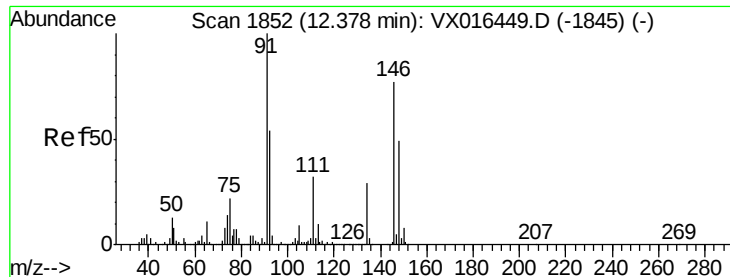
Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

89 0.0 36.6 55.0#





#91

1,2-Dichlorobenzene

Concen: 0.435 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

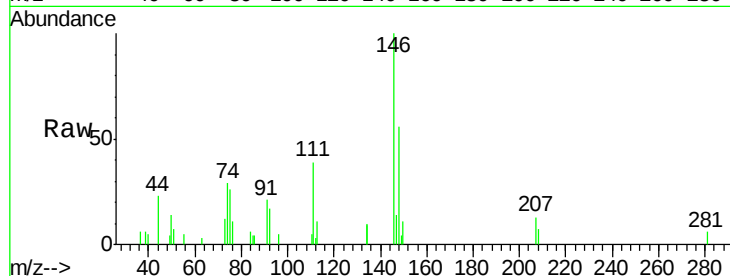
Tot Ion:146 Resp: 2404

Ion Ratio Lower Upper

146 100

111 36.9 21.4 64.3

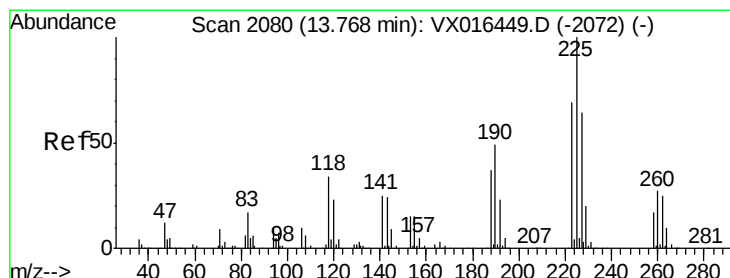
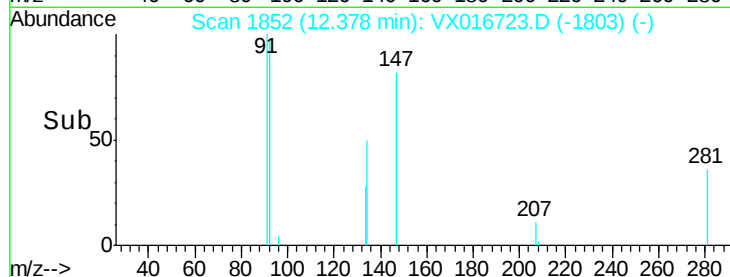
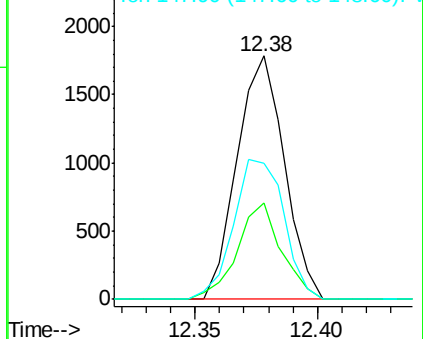
148 61.1 31.9 95.7



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



#94

Hexachlorobutadiene

Concen: 0.297 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX016723.D

Acq: 12 Jun 2020 13:16

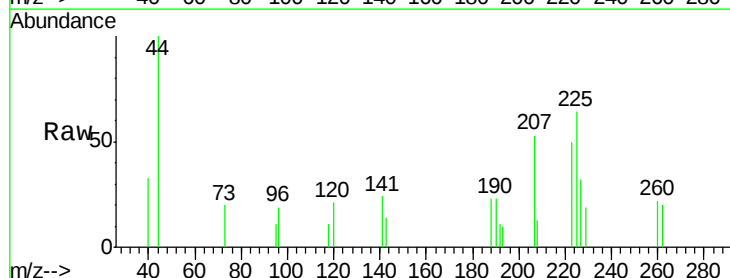
Tgt Ion:225 Resp: 428

Ion Ratio Lower Upper

225 100

223 82.5 32.3 96.8

227 36.4 31.6 94.7



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

