

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060320\
 Data File : VX016561.D
 Acq On : 03 Jun 2020 12:33
 Operator : JC/SP
 Sample : L2866-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 08:23:26 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	284782	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	455901	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	447565	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	215245	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	162363	45.91	ug/l	0.00
Spiked Amount			Recovery	=	91.82%	
35) Dibromofluoromethane	5.46	113	130535	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	
50) Toluene-d8	8.70	98	565968	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
62) 4-Bromofluorobenzene	11.12	95	223222	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	

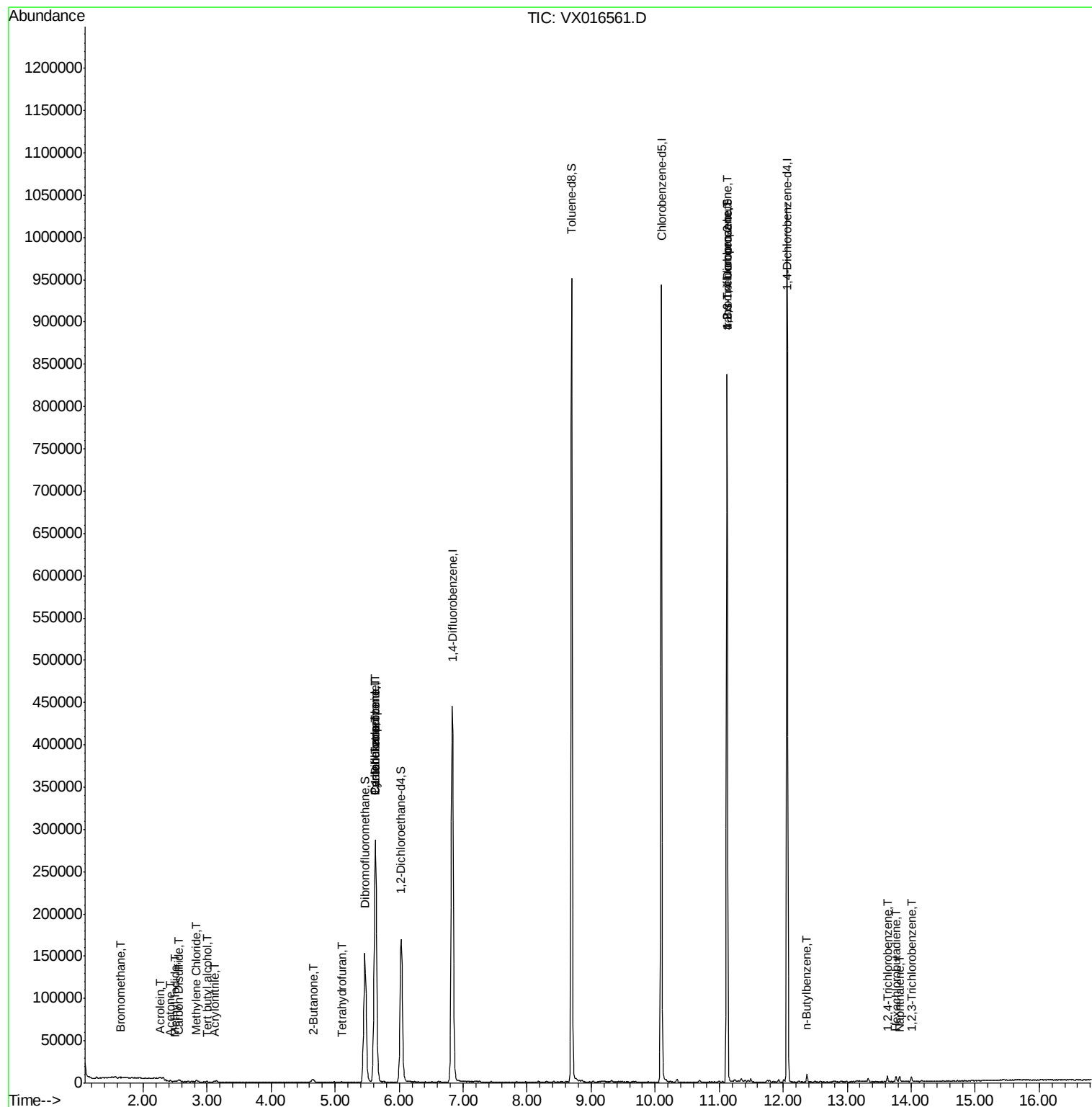
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	656	0.377	ug/l	85
10) Methyl Iodide	2.50	142	578	3.231	ug/l #	86
11) Tert butyl alcohol	3.01	59	202	0.223	ug/l #	68
13) Acrolein	2.27	56	829	2.149	ug/l #	60
15) Acrylonitrile	3.12	53	814	0.438	ug/l #	89
16) Acetone	2.42	43	1257	0.811	ug/l	91
17) Carbon Disulfide	2.55	76	2301	0.283	ug/l #	75
20) Methylene Chloride	2.84	84	1052	0.328	ug/l #	88
25) 2-Butanone	4.65	43	601	0.229	ug/l #	49
29) Tetrahydrofuran	5.12	42	371	0.219	ug/l #	79
31) Cyclohexane	5.64	56	5122	1.042	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	20014	4.637	ug/l #	51
38) Carbon Tetrachloride	5.62	117	27239	6.005	ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	108786	22.993	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	108786	56.560	ug/l #	14
89) n-Butylbenzene	12.37	91	2703	0.260	ug/l	95
93) 1,2,4-Trichlorobenzene	13.63	180	1634	0.375	ug/l	94
94) Hexachlorobutadiene	13.77	225	1054	0.616	ug/l	93
95) Naphthalene	13.82	128	3958	0.265	ug/l #	90
96) 1,2,3-Trichlorobenzene	14.01	180	1601	0.375	ug/l	97

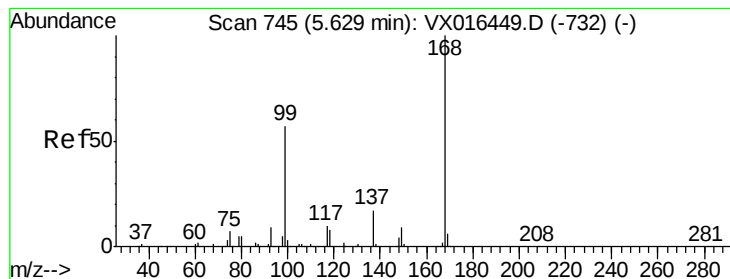
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

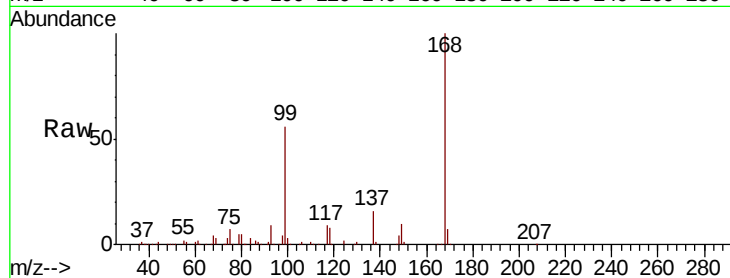
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 284782

Ion Ratio Lower Upper

168 100

99 55.8 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

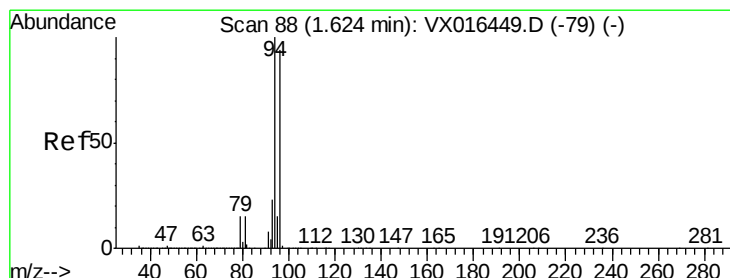
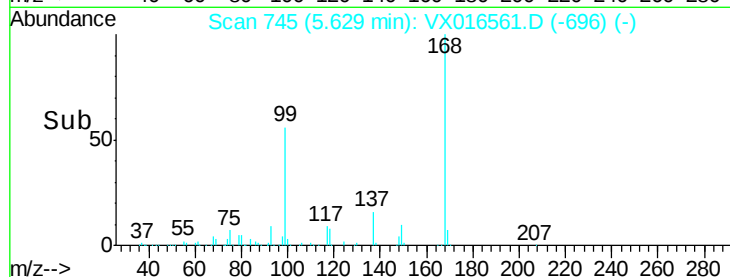
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.377 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX016561.D

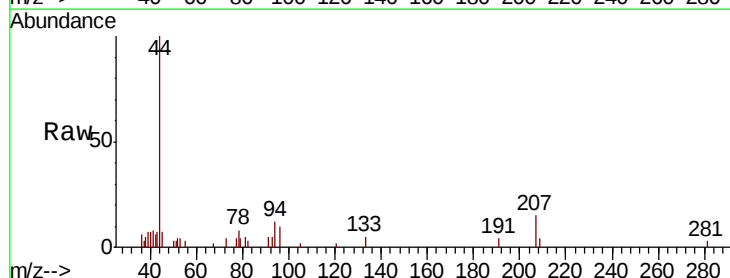
Acq: 03 Jun 2020 12:33

Tgt Ion: 94 Resp: 656

Ion Ratio Lower Upper

94 100

96 79.2 75.1 112.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

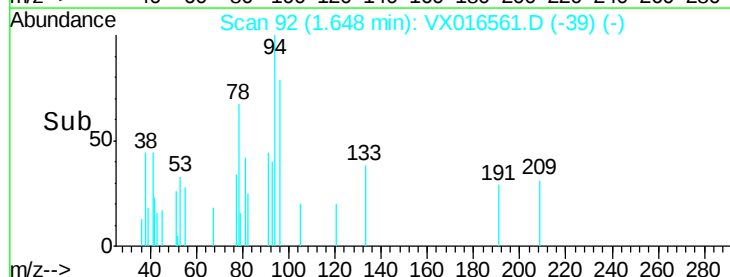
100

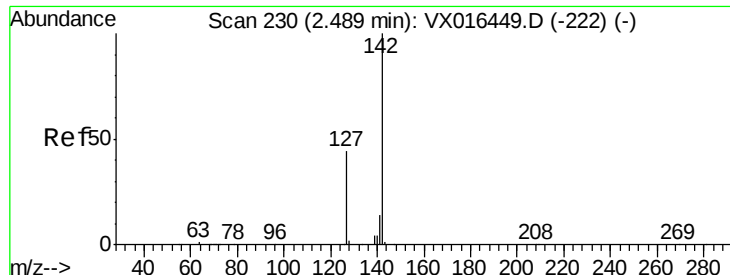
50

0

1.60 1.65 1.70

Time-->

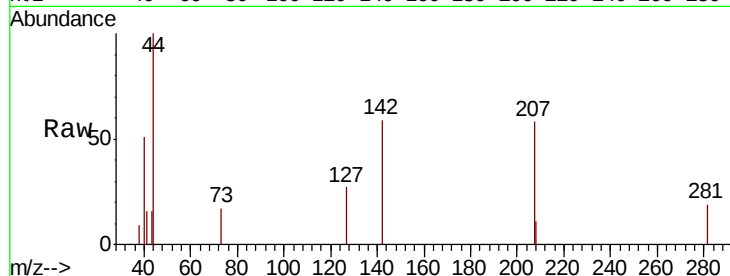




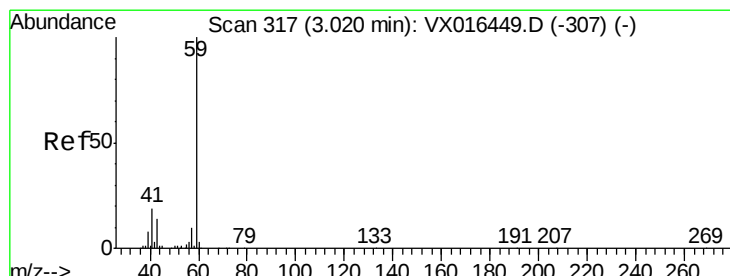
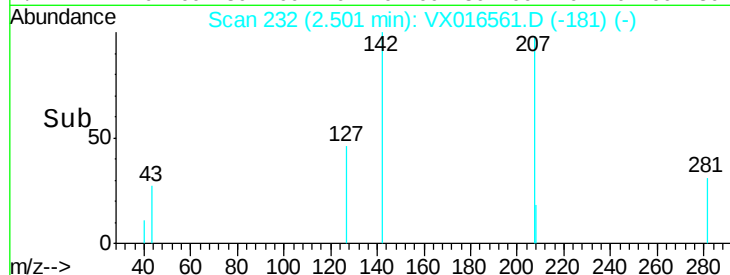
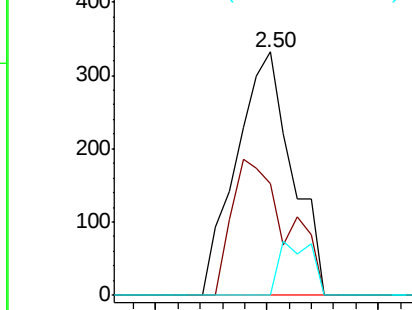
#10
Methvl Iodide
Concen: 3.231 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX016561.D
Acq: 03 Jun 2020 12:33

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
127	55.4	35.3	52.9#
141	12.8	11.4	17.2

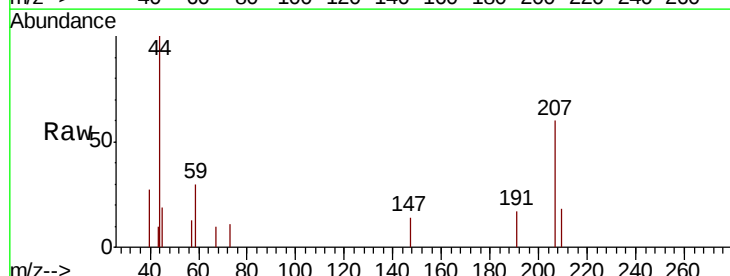


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

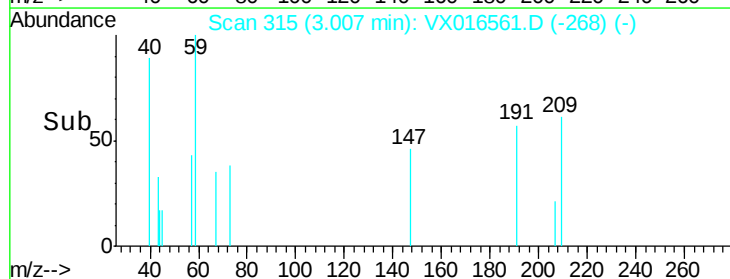
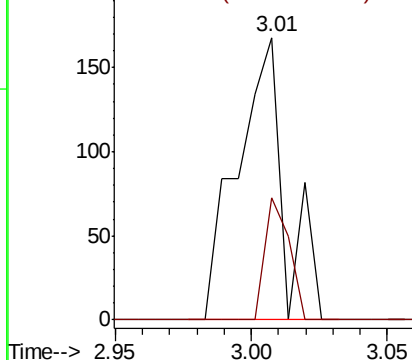


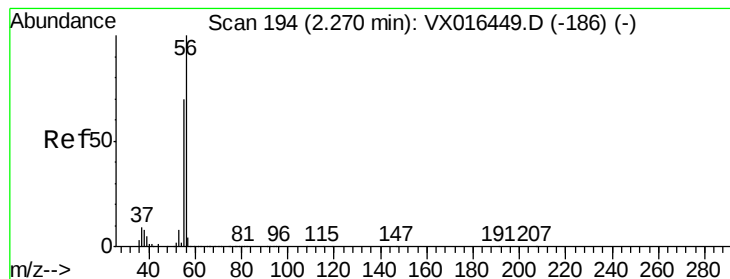
#11
Tert butyl alcohol
Concen: 0.223 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016561.D
Acq: 03 Jun 2020 12:33

Tgt Ion	Ratio	Lower	Upper
59	100		
57	22.3	8.2	12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 2.149 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

Instrument :

MSVOA_X

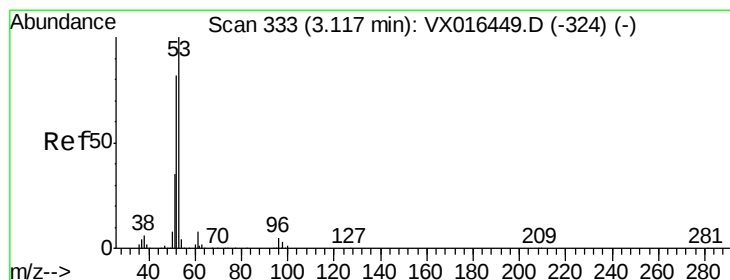
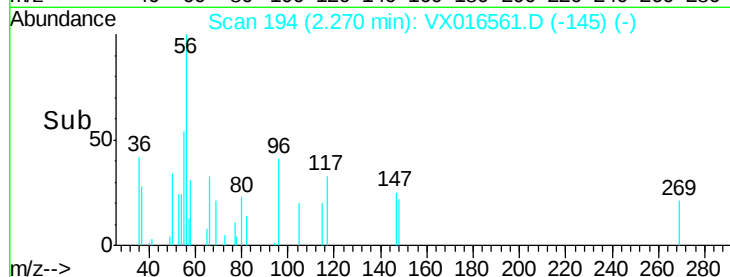
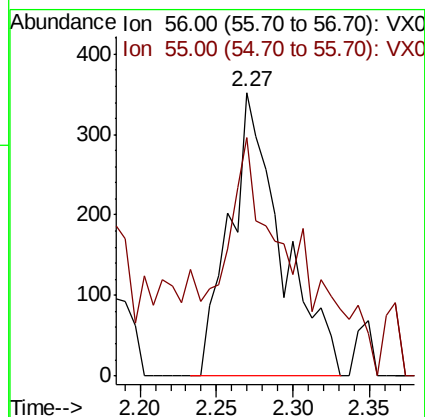
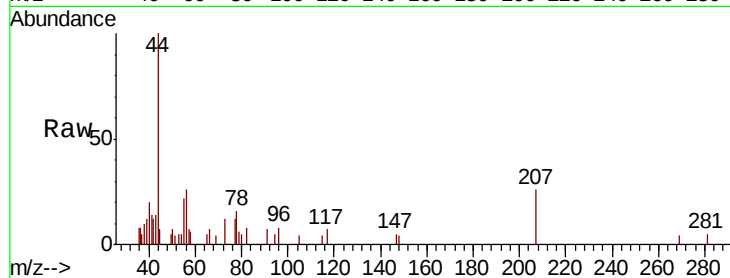
ClientSampleId :

Tot Ion: 56 Resp: 829

Ion Ratio Lower Upper

56 100

55 106.5 58.3 87.5#



#15

Acrylonitrile

Concen: 0.438 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

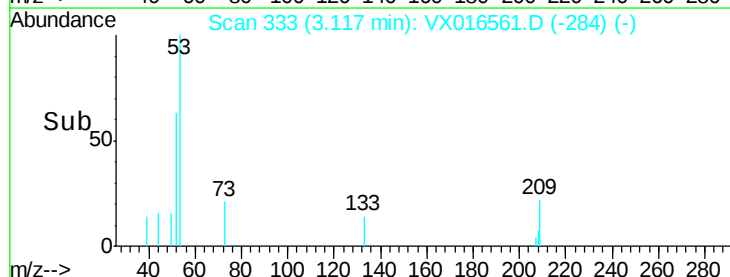
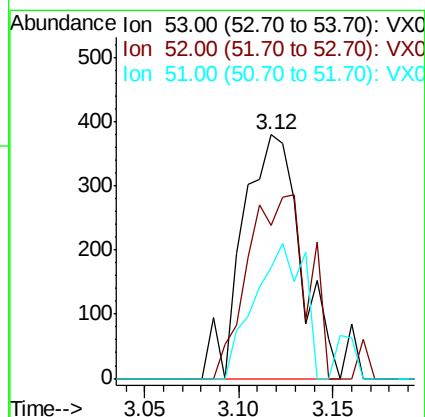
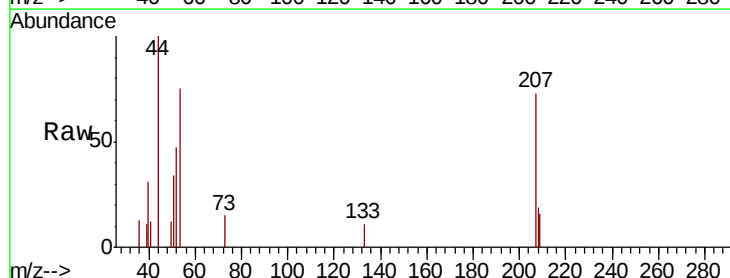
Tgt Ion: 53 Resp: 814

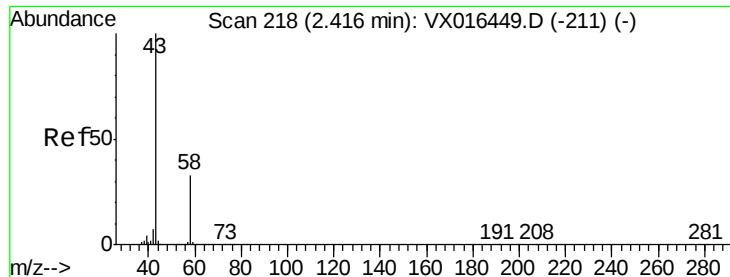
Ion Ratio Lower Upper

53 100

52 76.5 66.7 100.1

51 46.9 28.6 43.0#





#16

Acetone

Concen: 0.811 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

Instrument :

MSVOA_X

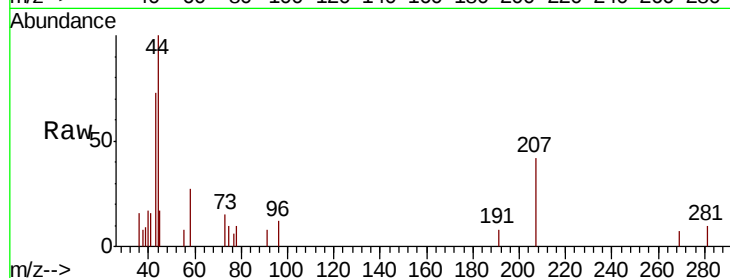
ClientSampleId :

Tot Ion: 43 Resp: 1257

Ion Ratio Lower Upper

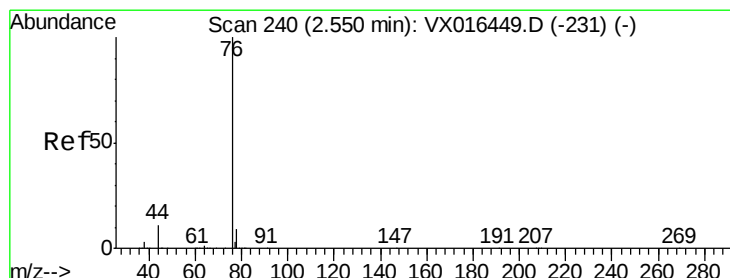
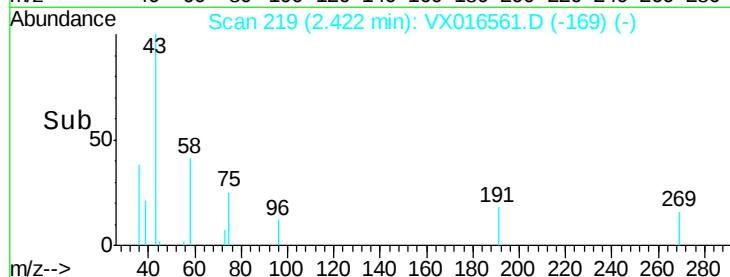
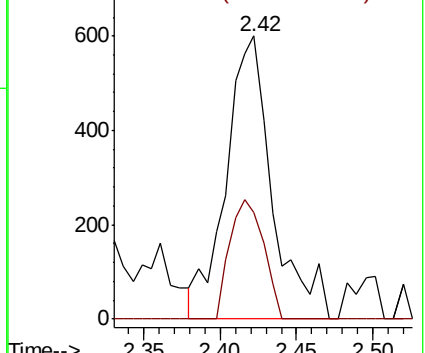
43 100

58 37.5 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.283 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX016561.D

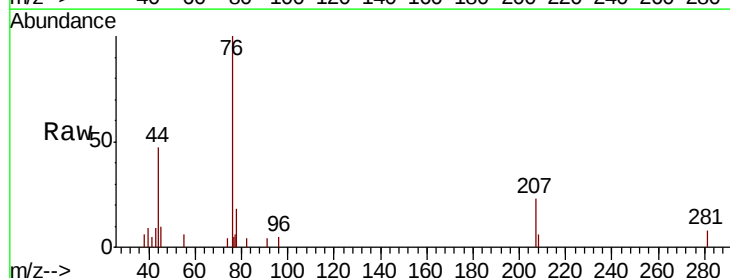
Acq: 03 Jun 2020 12:33

Tgt Ion: 76 Resp: 2301

Ion Ratio Lower Upper

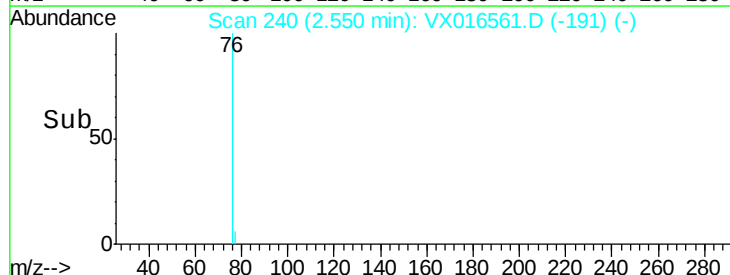
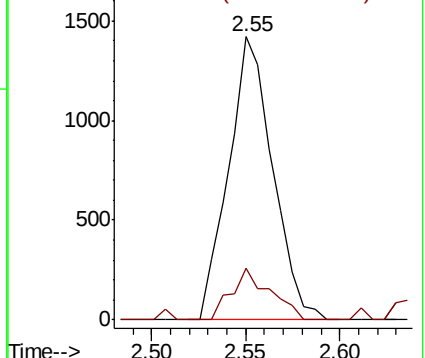
76 100

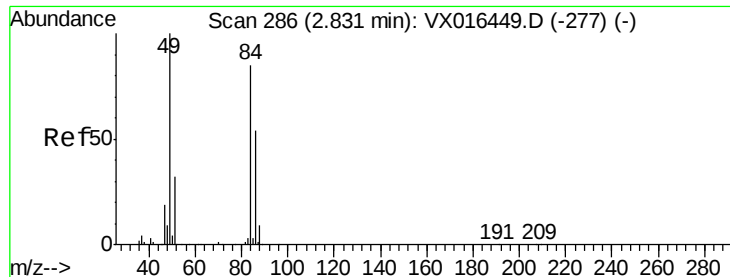
78 18.4 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 0.328 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 1052

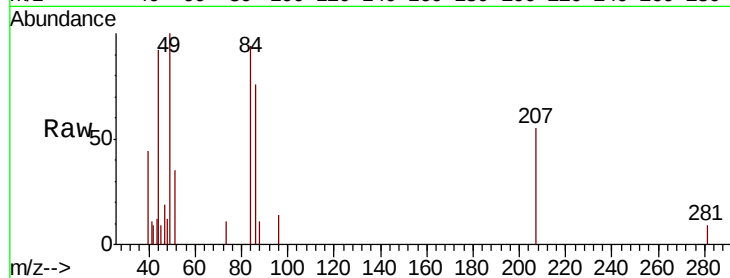
Ion Ratio Lower Upper

84 100

49 106.4 94.5 141.7

51 37.3 30.2 45.4

86 80.5 51.1 76.7#

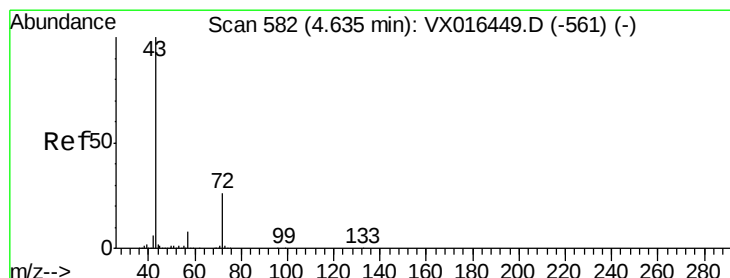
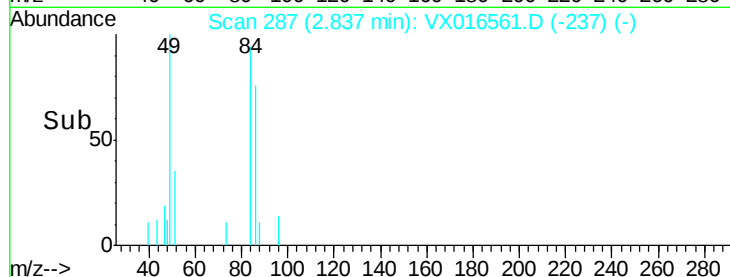
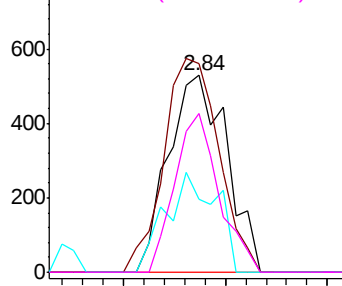


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.229 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX016561.D

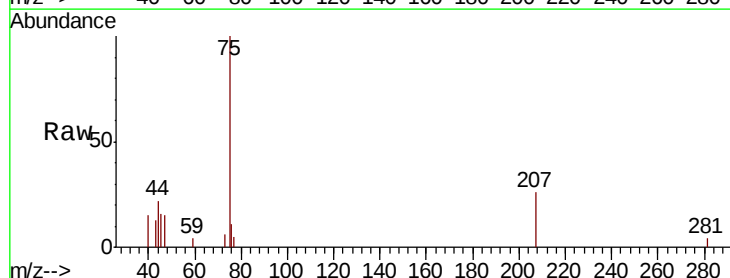
Acq: 03 Jun 2020 12:33

Tgt Ion: 43 Resp: 601

Ion Ratio Lower Upper

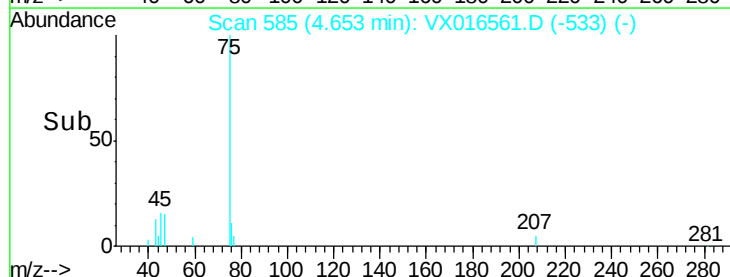
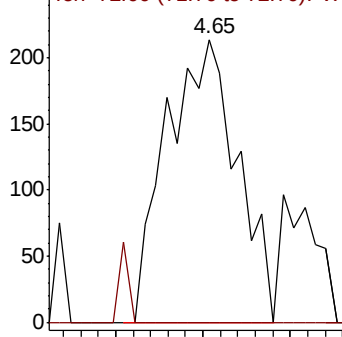
43 100

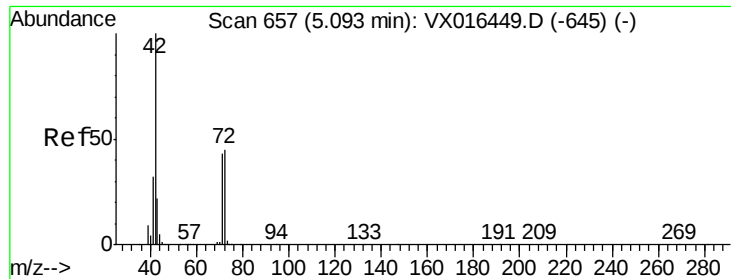
72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

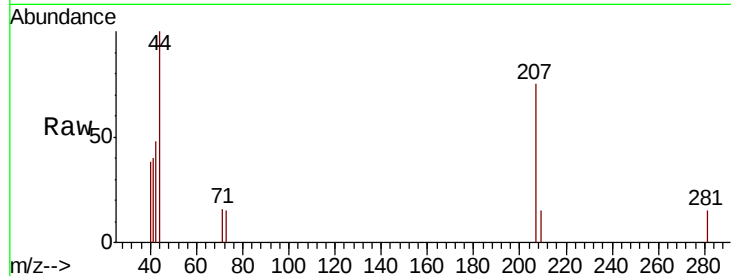




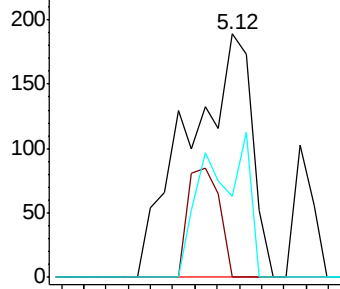
#29
Tetrahydrofuran
Concen: 0.219 ug/l
RT: 5.12 min Scan# 661
Delta R.T. 0.02 min
Lab File: VX016561.D
Acq: 03 Jun 2020 12:33

Instrument :
MSVOA_X
ClientSampleId :

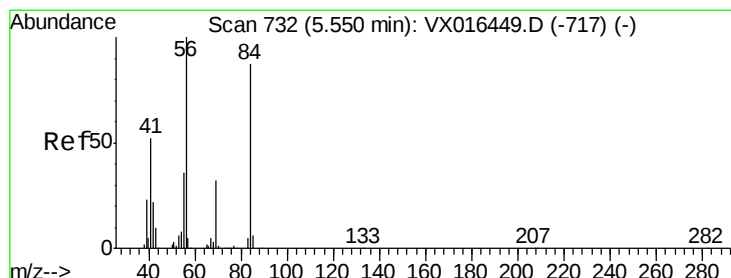
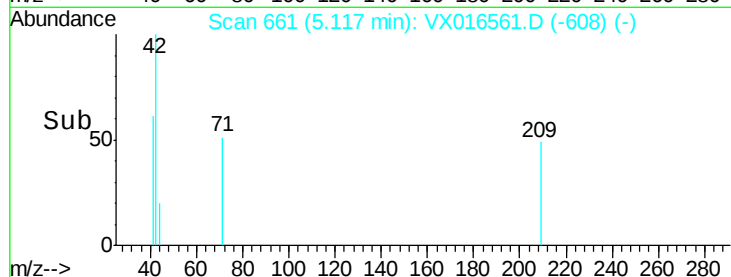
Tot Ion: 42 Resp: 371
Ion Ratio Lower Upper
42 100
72 22.9 37.0 55.4#
71 39.4 34.1 51.1



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

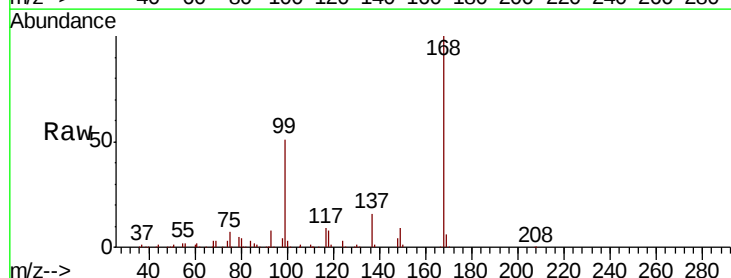


Time--> 5.05 5.10 5.15

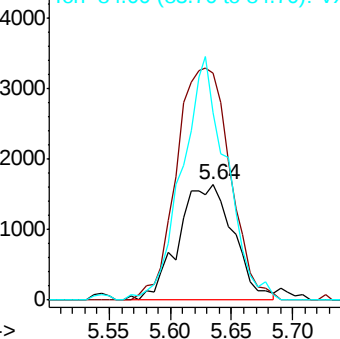


#31
Cyclohexane
Concen: 1.042 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016561.D
Acq: 03 Jun 2020 12:33

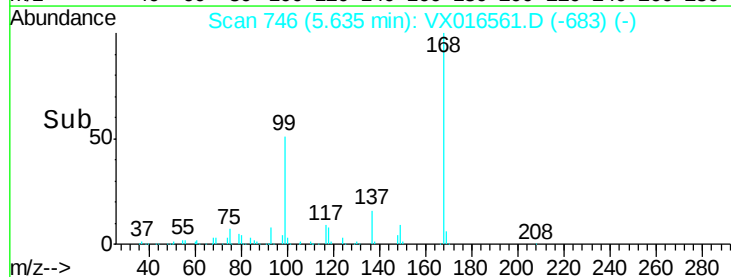
Tgt Ion: 56 Resp: 5122
Ion Ratio Lower Upper
56 100
69 196.4 25.7 38.5#
84 162.3 70.0 105.0#

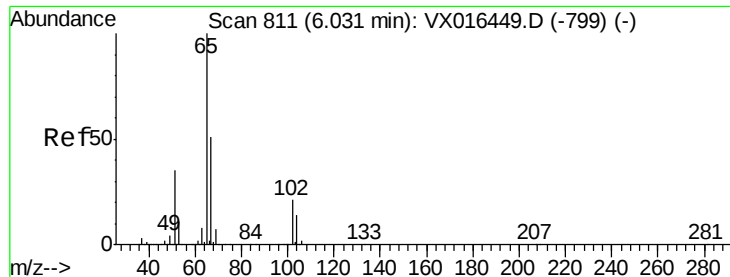


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



Time--> 5.55 5.60 5.65 5.70

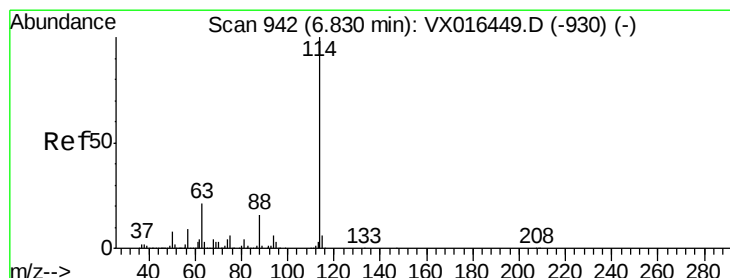
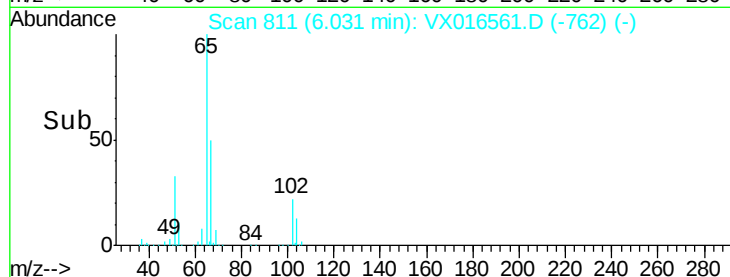
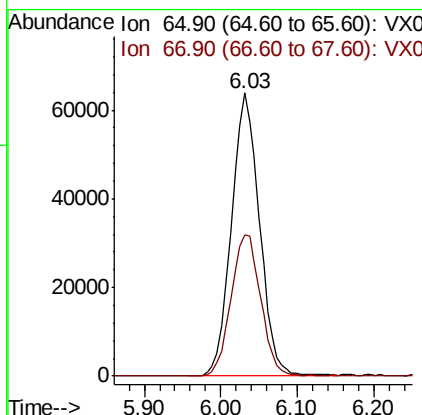
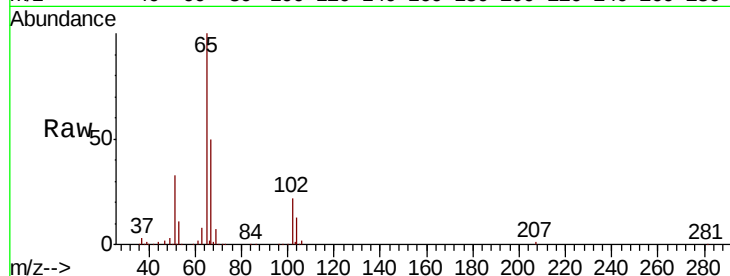




#33
 1,2-Dichloroethane-d4
 Concen: 45.909 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016561.D
 Acq: 03 Jun 2020 12:33

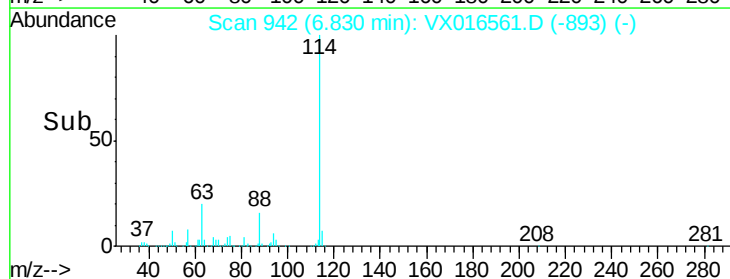
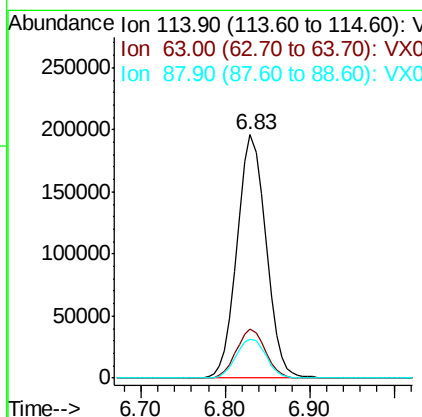
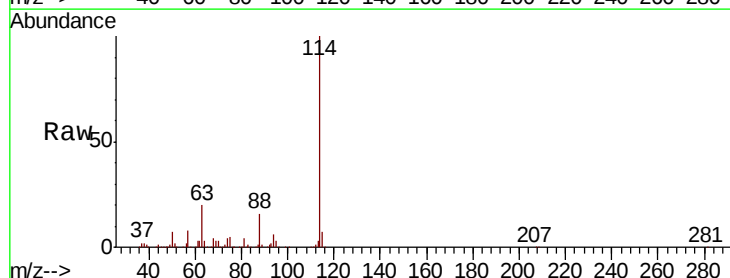
Instrument :
 MSVOA_X
 ClientSampleId :

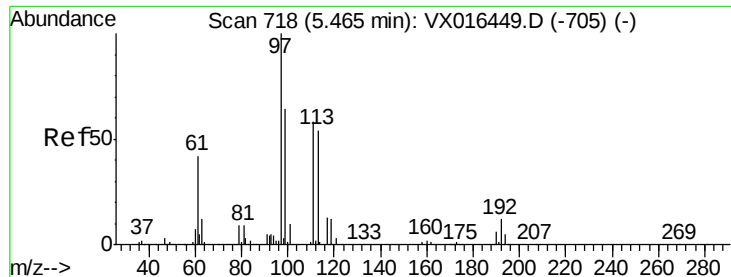
Tot Ion: 65 Resp: 162363
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016561.D
 Acq: 03 Jun 2020 12:33

Tgt Ion: 114 Resp: 455901
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 42.6
 88 16.1 0.0 32.8

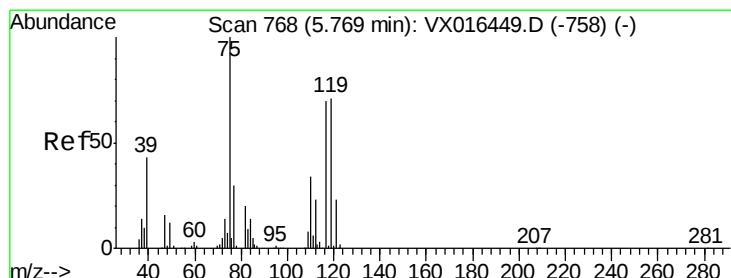
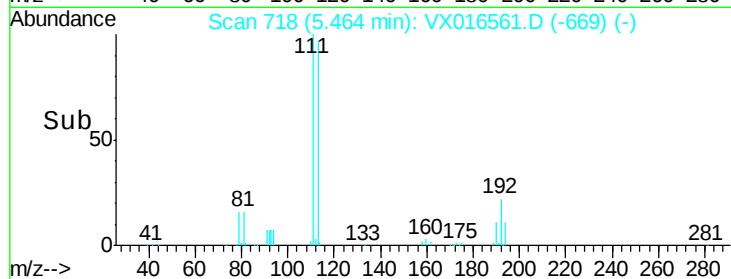
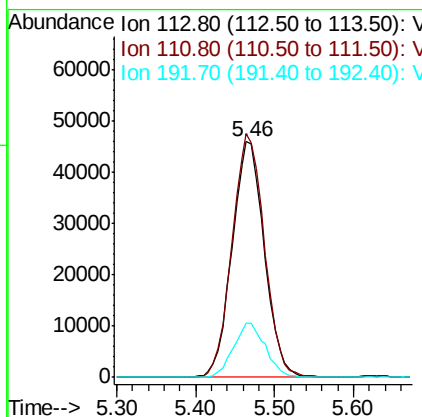
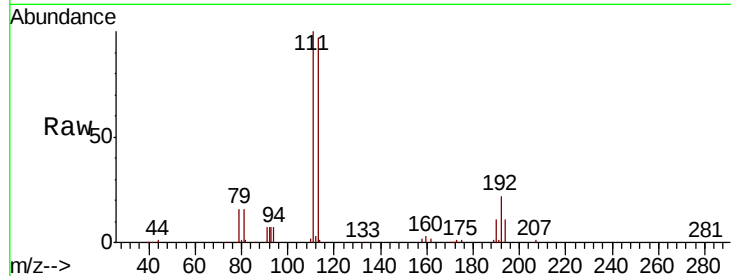




#35
 Dibromofluoromethane
 Concen: 46.500 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX016561.D
 Acq: 03 Jun 2020 12:33

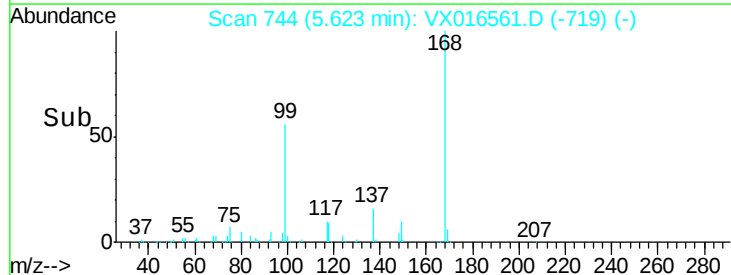
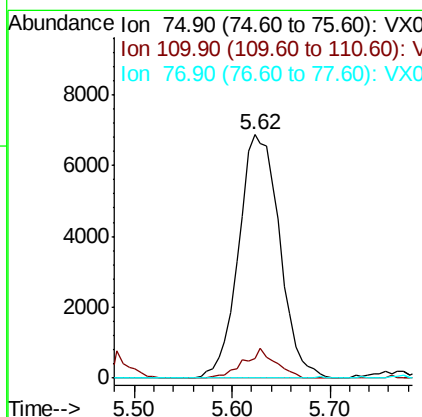
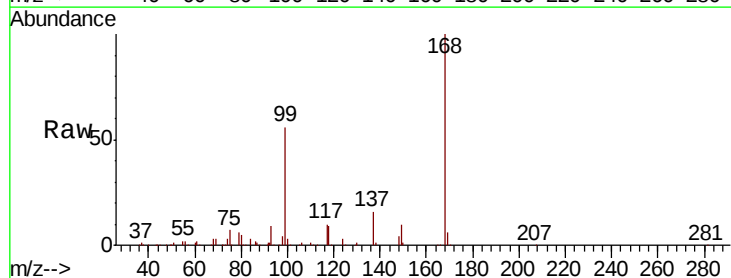
Instrument :
 MSVOA_X
 ClientSampleId :

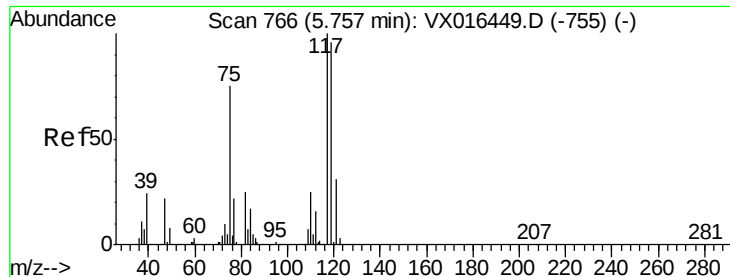
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	83.0	124.6
192	22.6	17.7	26.5



#36
 1,1-Dichloropropene
 Concen: 4.637 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX016561.D
 Acq: 03 Jun 2020 12:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	17.4	52.3#
77	0.0	24.2	36.4#

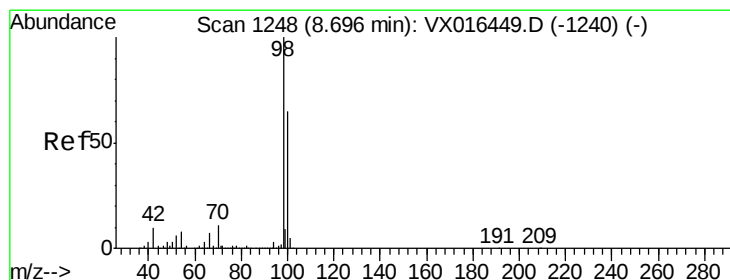
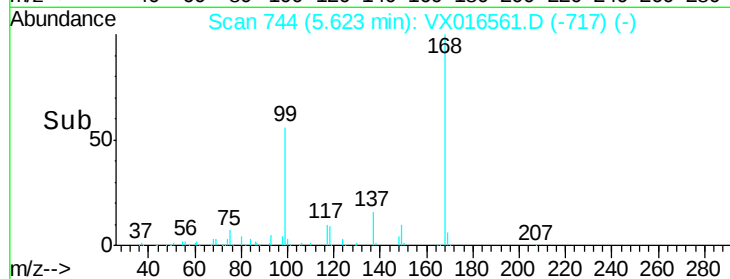
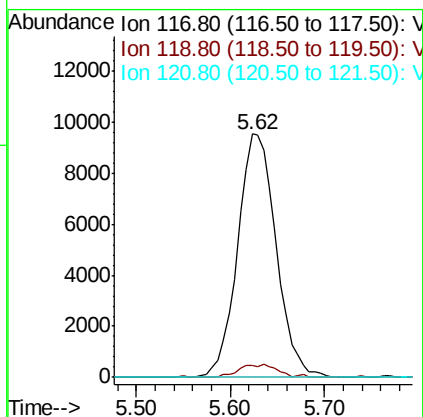
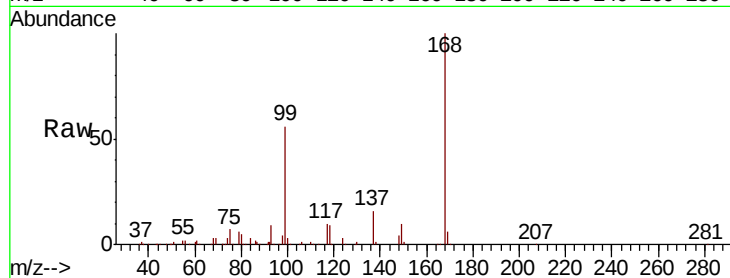




#38
Carbon Tetrachloride
Concen: 6.005 ug/l
RT: 5.62 min Scan# 744
Delta R.T. -0.13 min
Lab File: VX016561.D
Acq: 03 Jun 2020 12:33

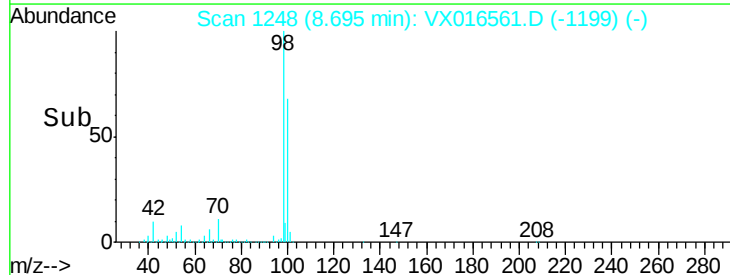
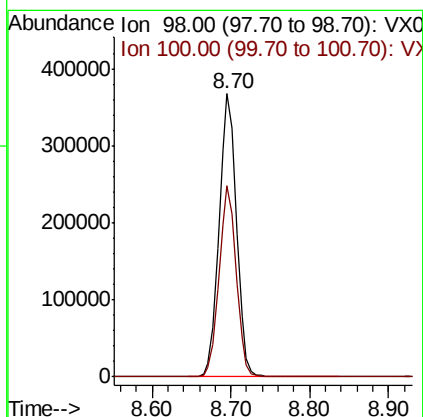
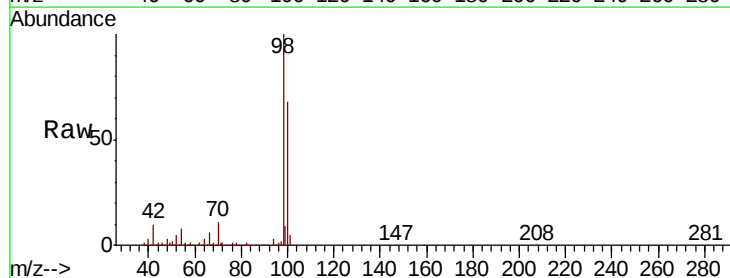
Instrument :
MSVOA_X
ClientSampleId :

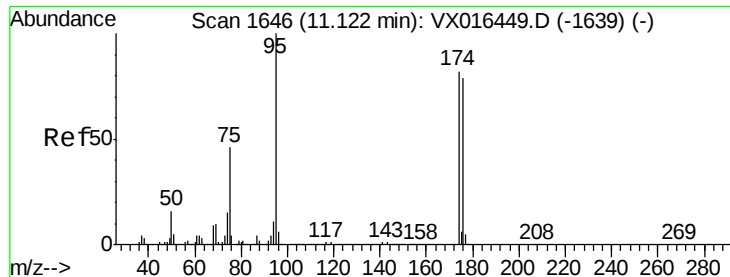
Tot Ion:117 Resp: 27239
Ion Ratio Lower Upper
117 100
119 5.0 76.3 114.5#
121 0.0 24.6 37.0#



#50
Toluene-d8
Concen: 51.799 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016561.D
Acq: 03 Jun 2020 12:33

Tgt Ion: 98 Resp: 565968
Ion Ratio Lower Upper
98 100
100 66.5 53.8 80.6





#62

4-Bromofluorobenzene

Concen: 52.873 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

Instrument :

MSVOA_X

ClientSampleId :

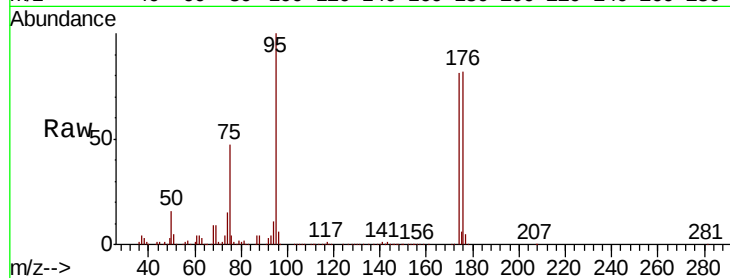
Tot Ion: 95 Resp: 223222

Ion Ratio Lower Upper

95 100

174 80.9 0.0 163.0

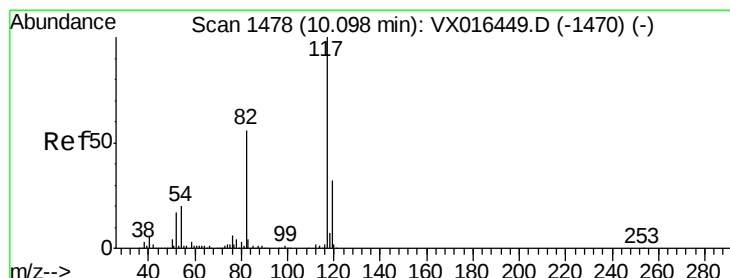
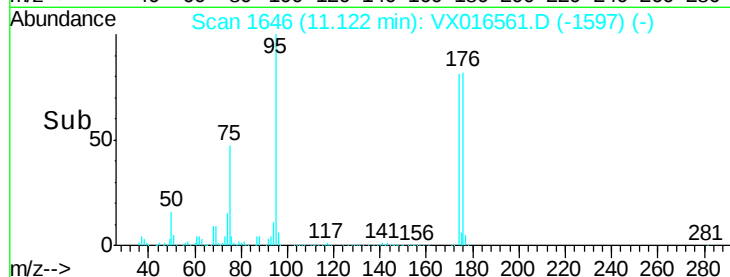
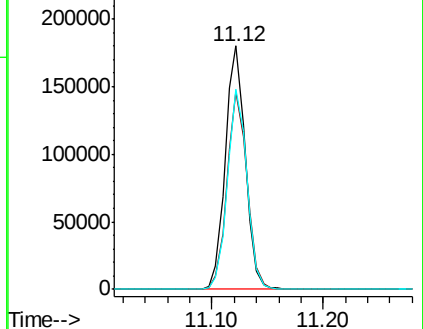
176 80.5 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX016561.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016561.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016561.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

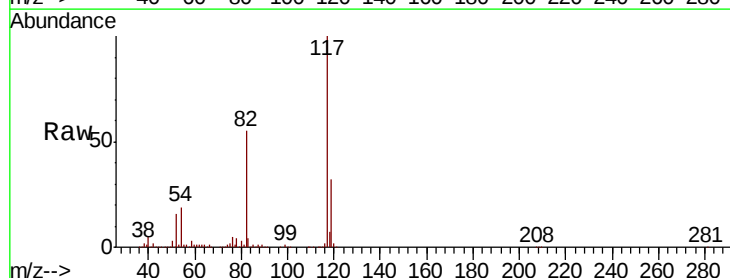
Tgt Ion: 117 Resp: 447565

Ion Ratio Lower Upper

117 100

82 55.0 45.0 67.6

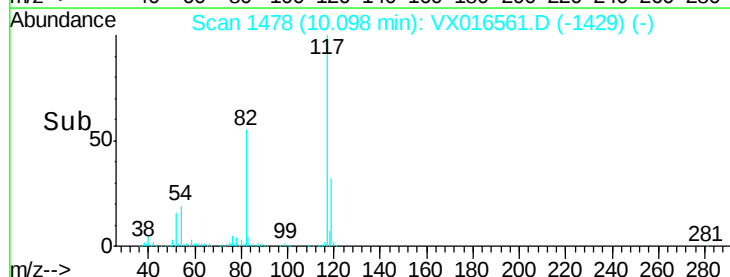
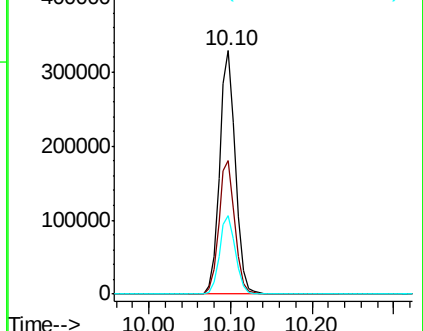
119 32.3 25.8 38.8

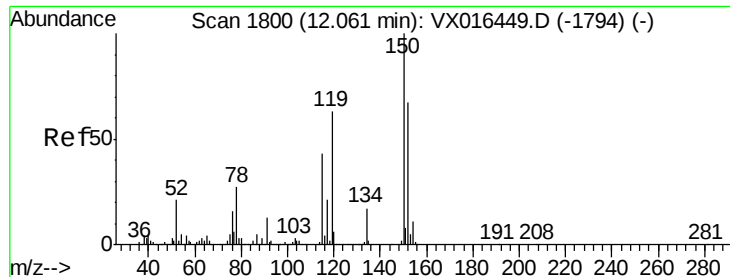


Abundance Ion 116.90 (116.60 to 117.60): VX016561.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016561.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016561.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

Instrument :

MSVOA_X

ClientSampleId :

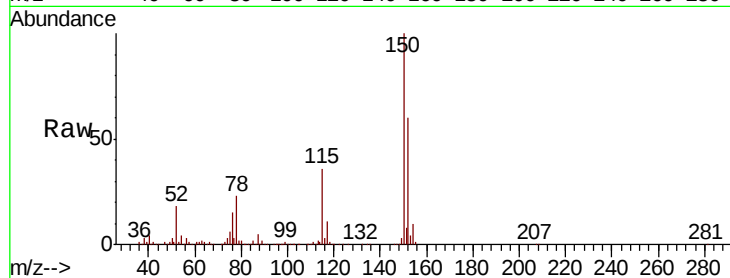
Tot Ion:152 Resp: 215245

Ion Ratio Lower Upper

152 100

115 59.5 39.9 119.6

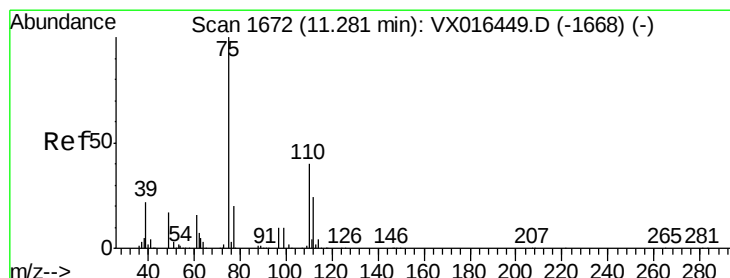
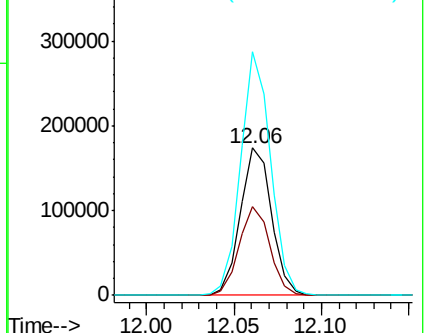
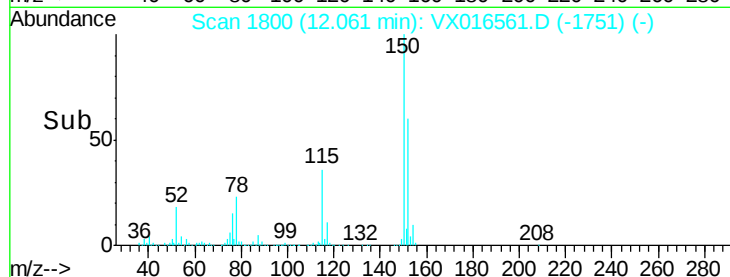
150 159.1 0.0 341.0



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: 22.993 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016561.D

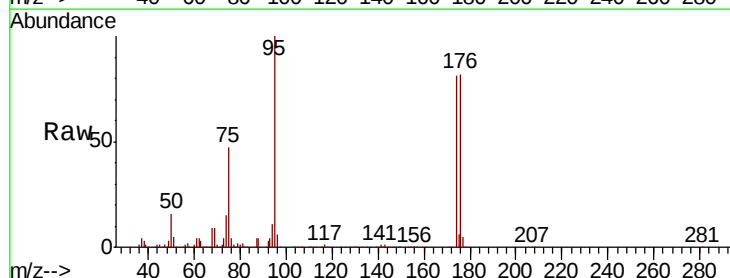
Acq: 03 Jun 2020 12:33

Tgt Ion: 75 Resp: 108786

Ion Ratio Lower Upper

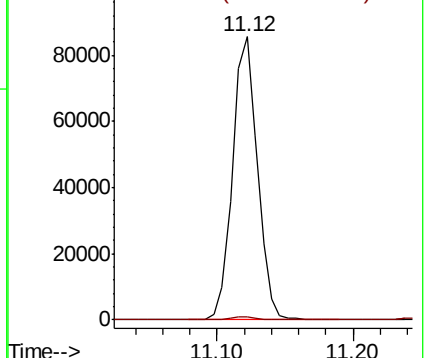
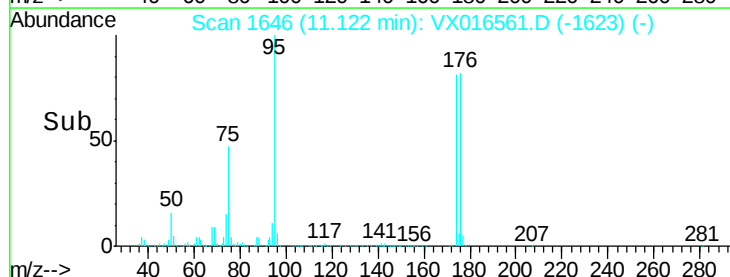
75 100

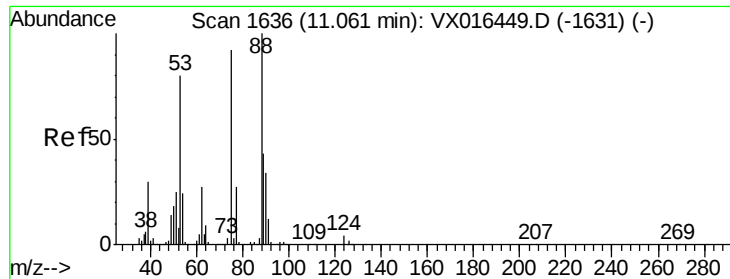
77 1.2 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 56.560 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

Instrument :

MSVOA_X

ClientSampled :

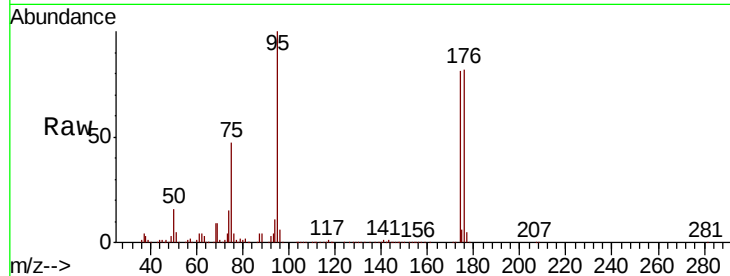
Tot Ion: 75 Resp: 108786

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

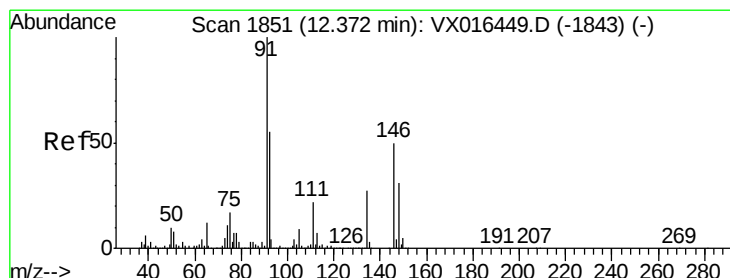
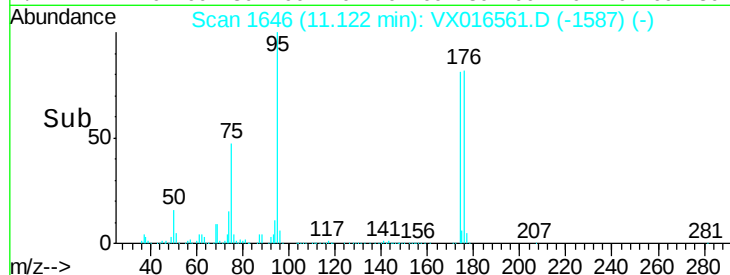
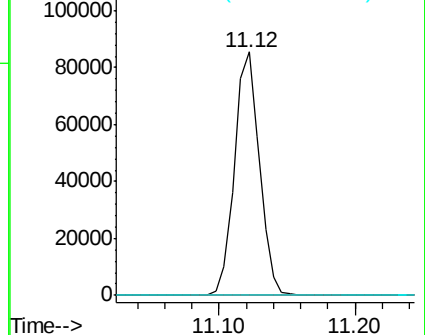
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#89

n-Butylbenzene

Concen: 0.260 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

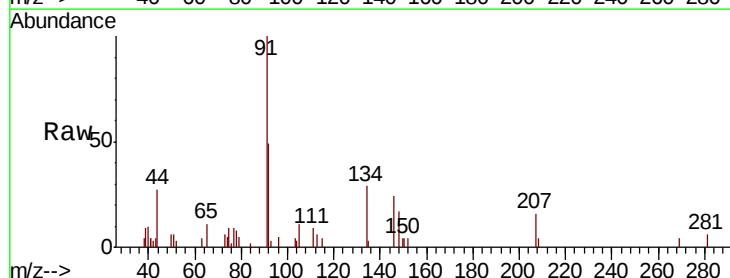
Tgt Ion: 91 Resp: 2703

Ion Ratio Lower Upper

91 100

92 49.5 27.2 81.5

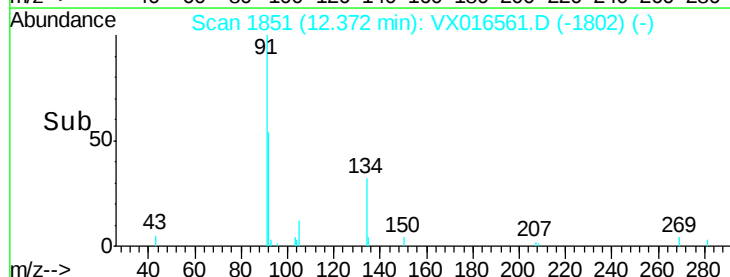
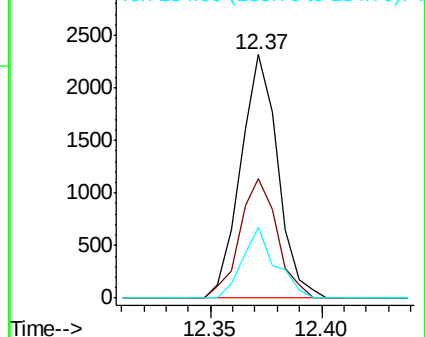
134 25.6 13.1 39.3

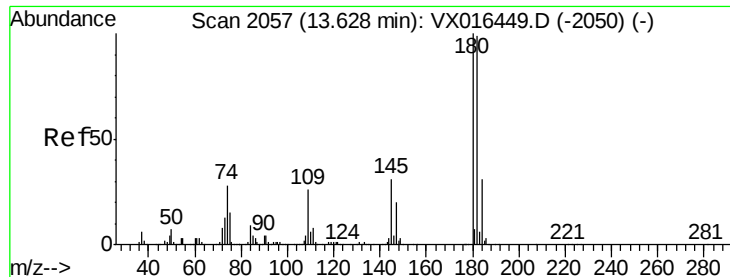


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V

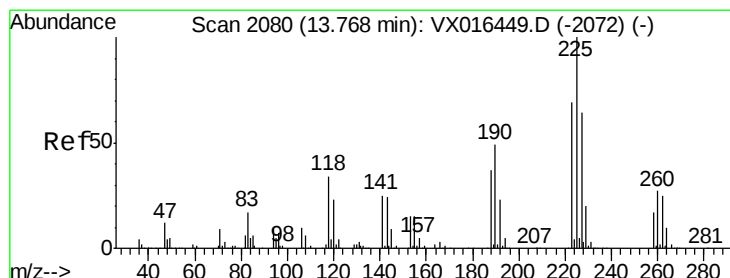
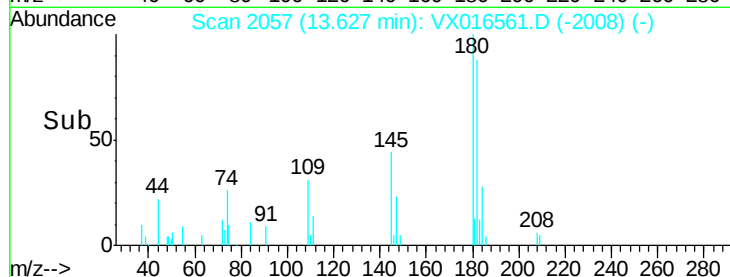
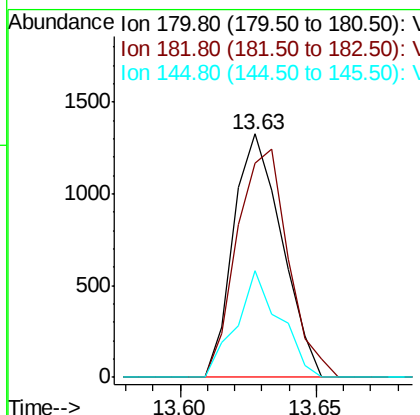
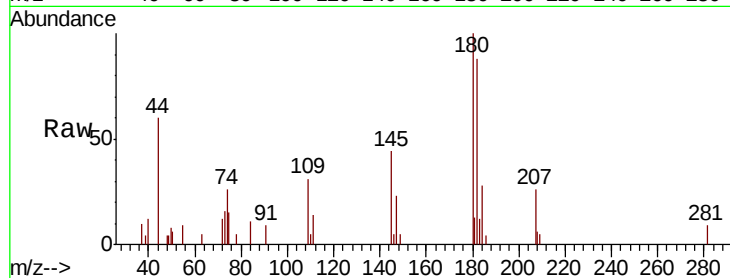




#93
 1,2,4-Trichlorobenzene
 Concen: 0.375 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX016561.D
 Acq: 03 Jun 2020 12:33

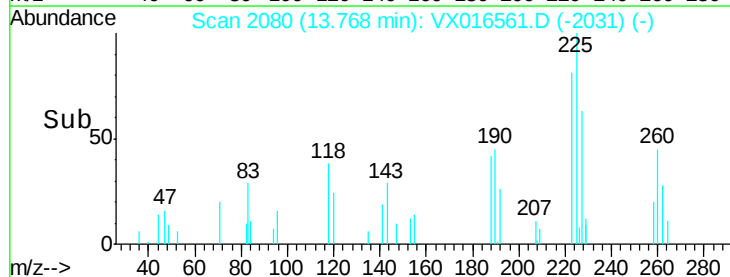
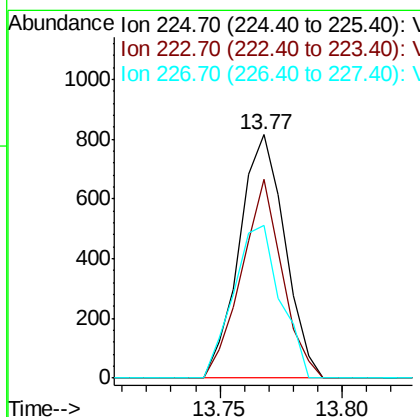
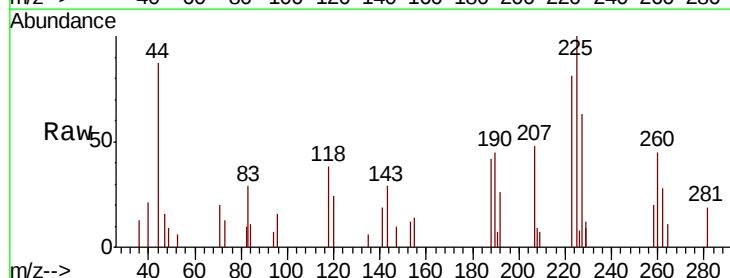
Instrument :
 MSVOA_X
 ClientSampleId :

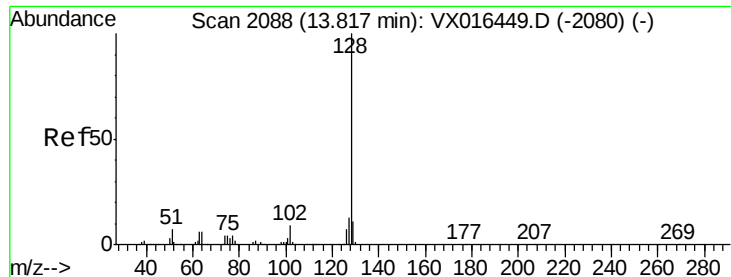
Tot Ion:180 Resp: 1634
 Ion Ratio Lower Upper
 180 100
 182 99.8 48.3 144.8
 145 39.3 15.4 46.2



#94
 Hexachlorobutadiene
 Concen: 0.616 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX016561.D
 Acq: 03 Jun 2020 12:33

Tgt Ion:225 Resp: 1054
 Ion Ratio Lower Upper
 225 100
 223 73.1 32.3 96.8
 227 64.7 31.6 94.7





#95

Naphthalene

Concen: 0.265 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

Instrument :

MSVOA_X

ClientSampleId :

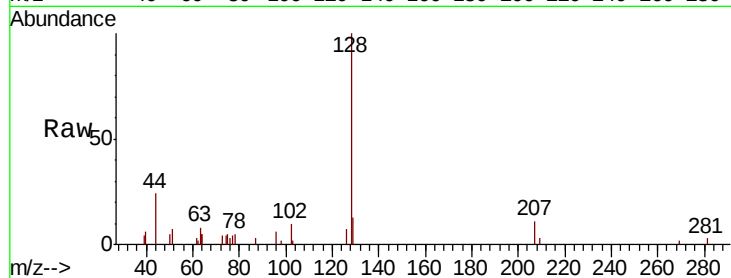
Tot Ion:128 Resp: 3958

Ion Ratio Lower Upper

128 100

127 6.3 10.6 15.8#

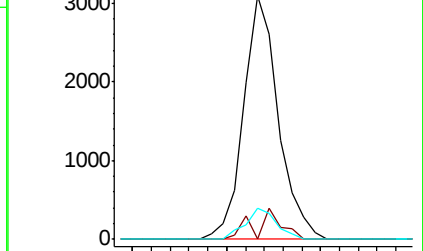
129 11.4 8.6 13.0



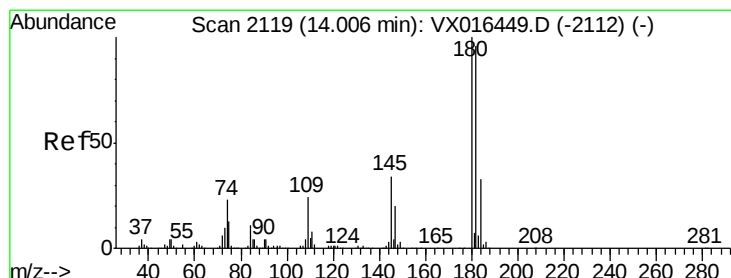
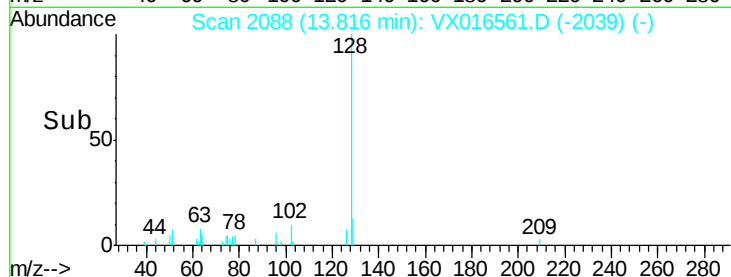
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time--> 13.75 13.80 13.85



#96

1,2,3-Trichlorobenzene

Concen: 0.375 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VX016561.D

Acq: 03 Jun 2020 12:33

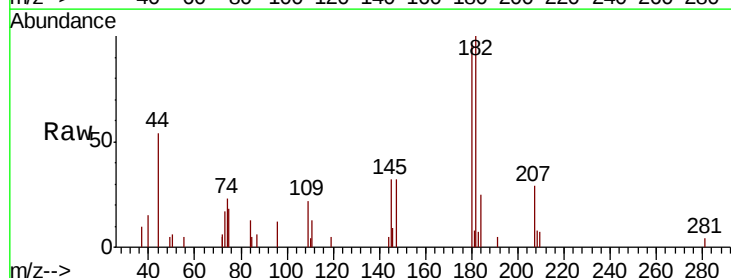
Tgt Ion:180 Resp: 1601

Ion Ratio Lower Upper

180 100

182 94.2 48.6 145.8

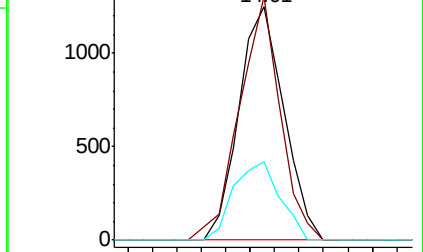
145 34.4 16.6 49.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time--> 13.95 14.00 14.05

