

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019773.D
 Acq On : 09 Dec 2020 13:04
 Operator : JC/MD
 Sample : L4965-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CRT012-1-3

Quant Time: Dec 10 05:39:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	347619	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	567144	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	515778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	231935	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	210078	45.98	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	91.96%
35) Dibromofluoromethane	5.46	113	173226	47.26	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.52%
50) Toluene-d8	8.70	98	684642	48.93	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.86%
62) 4-Bromofluorobenzene	11.12	95	242722	45.57	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.14%

Target Compounds

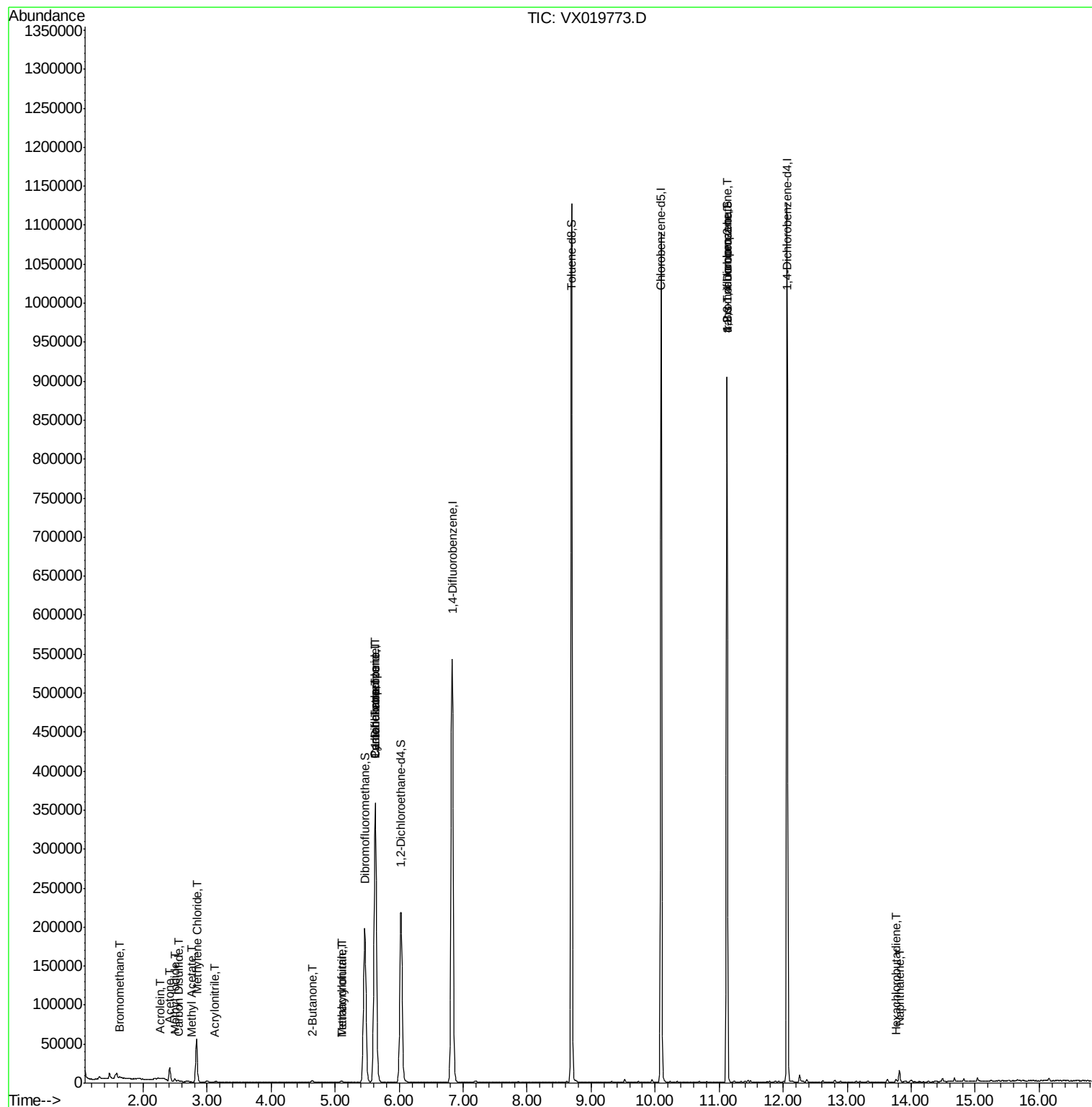
					Qvalue
5) Bromomethane	1.64	94	1168	0.891 ug/l	86
10) Methyl Iodide	2.50	142	3817	0.822 ug/l	98
11) Tert butyl alcohol	2.99	59	1261	Below Cal #	73
13) Acrolein	2.27	56	265	0.525 ug/l	94
15) Acrylonitrile	3.12	53	491	0.238 ug/l #	78
16) Acetone	2.42	43	17202	10.017 ug/l	99
17) Carbon Disulfide	2.56	76	2282	0.250 ug/l	98
18) Methyl Acetate	2.76	43	882	0.210 ug/l #	59
20) Methylene Chloride	2.83	84	26754	5.560 ug/l	99
25) 2-Butanone	4.64	43	2016	0.764 ug/l	96
29) Tetrahydrofuran	5.09	42	1156	0.680 ug/l	92
31) Cyclohexane	5.62	56	6784	1.194 ug/l #	1
36) 1,1-Dichloropropene	5.63	75	26086	5.090 ug/l #	49
38) Carbon Tetrachloride	5.63	117	33668	6.709 ug/l #	17
41) Methacrylonitrile	5.10	41	753	0.265 ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	117683	22.623 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	117683	65.399 ug/l #	12
94) Hexachlorobutadiene	13.77	225	510	0.242 ug/l	94
95) Naphthalene	13.82	128	8997	0.588 ug/l	98

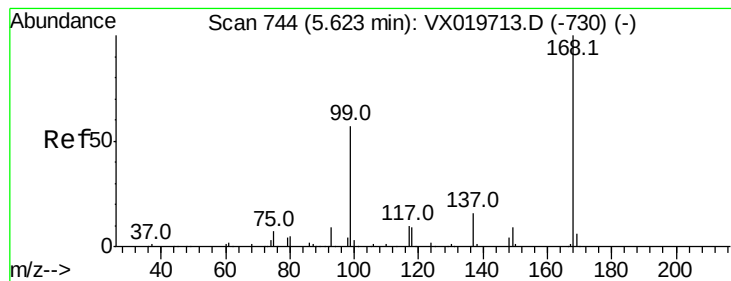
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

Instrument :

MSVOA_X

ClientSampleId :

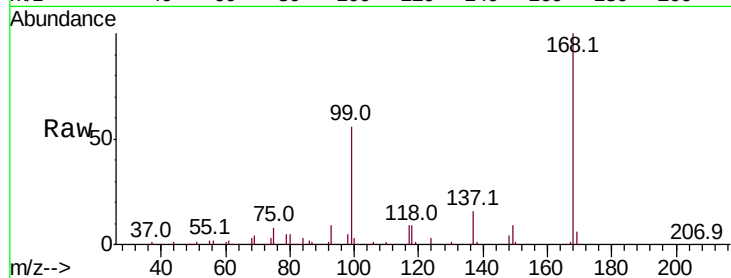
CRT012-1-3

Tot Ion:168 Resp: 347619

Ion Ratio Lower Upper

168 100

99 55.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

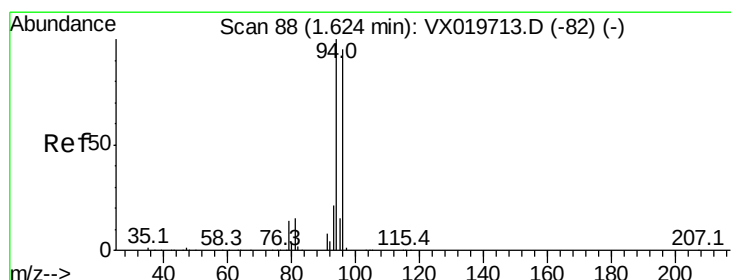
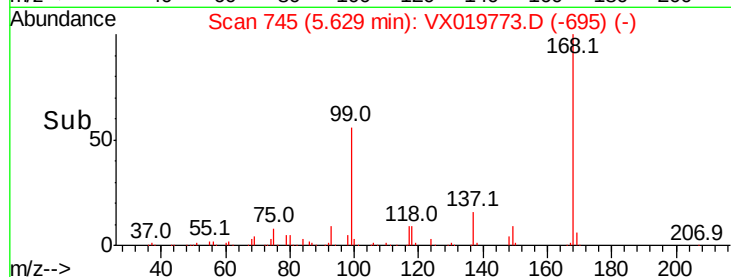
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.891 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019773.D

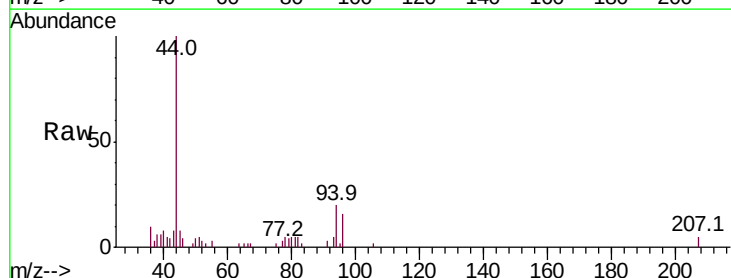
Acq: 09 Dec 2020 13:04

Tgt Ion: 94 Resp: 1168

Ion Ratio Lower Upper

94 100

96 82.2 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

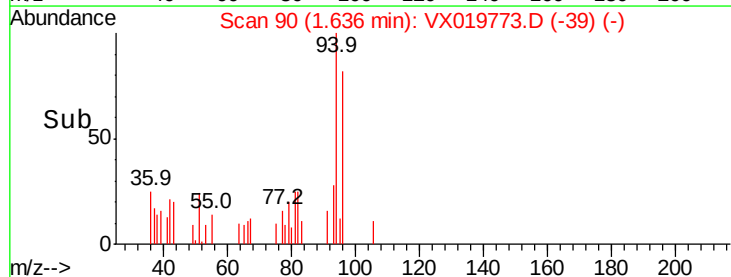
600

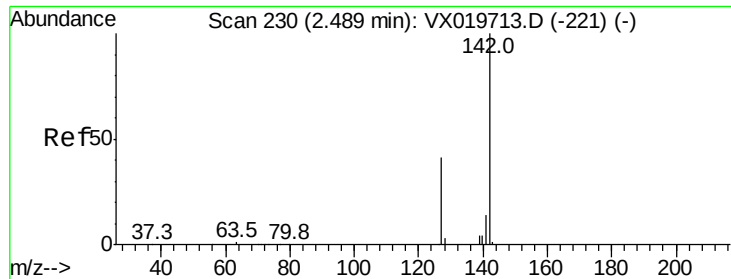
400

200

0

Time-->

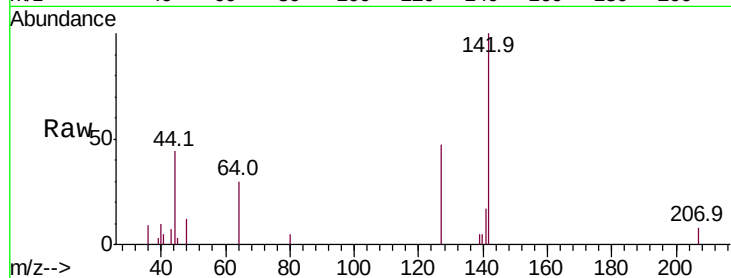




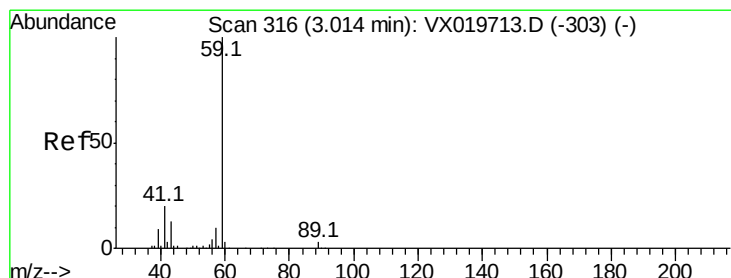
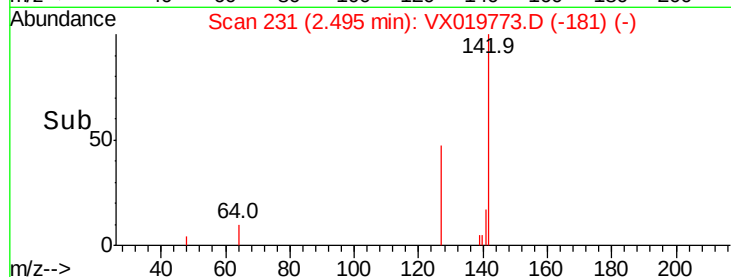
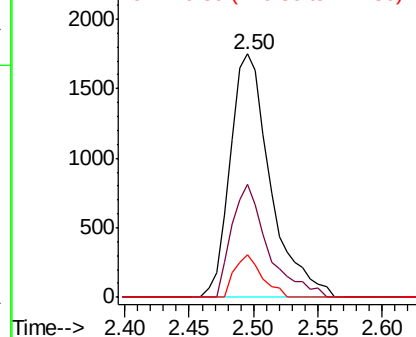
#10
Methyl Iodide
Concen: 0.822 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX019773.D
Acq: 09 Dec 2020 13:04

Instrument :
MSVOA_X
ClientSampled :
CRT012-1-3

Tot Ion:142 Resp: 3817
Ion Ratio Lower Upper
142 100
127 41.8 33.3 49.9
141 11.8 11.4 17.0

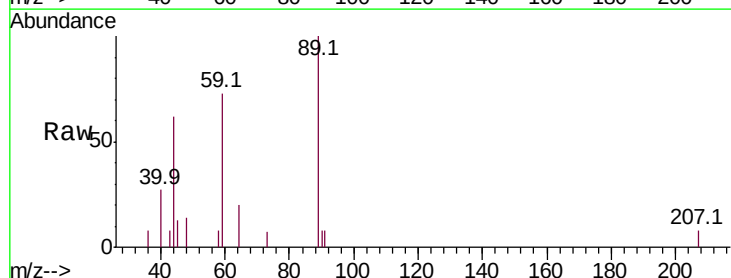


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

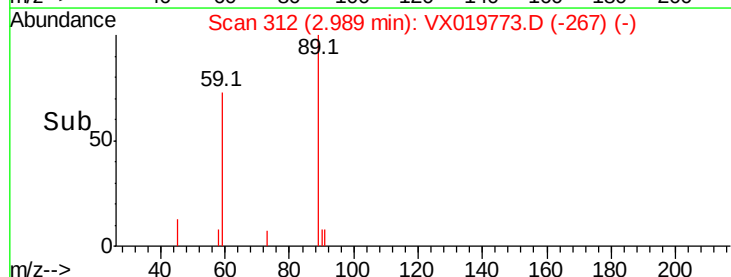
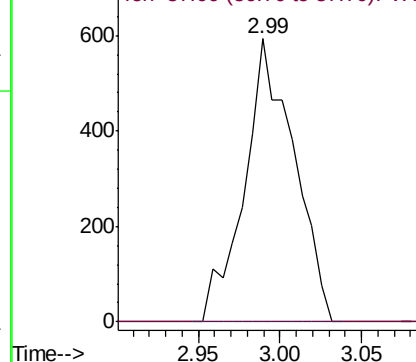


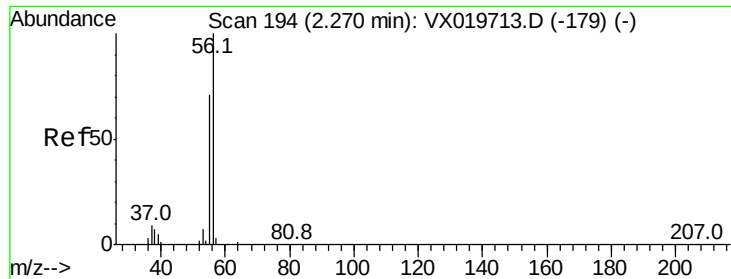
#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.99 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX019773.D
Acq: 09 Dec 2020 13:04

Tgt Ion: 59 Resp: 1261
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



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





#13

Acrolein

Concen: 0.525 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

Instrument :

MSVOA_X

ClientSampled :

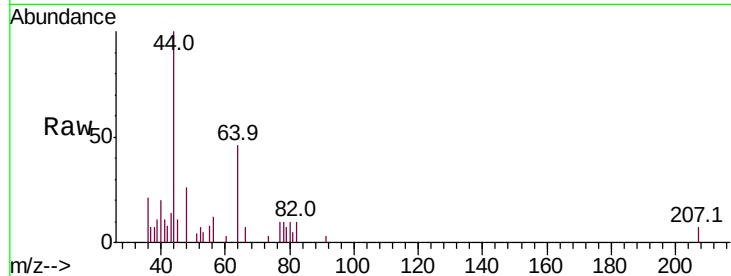
CRT012-1-3

Tot Ion: 56 Resp: 265

Ion Ratio Lower Upper

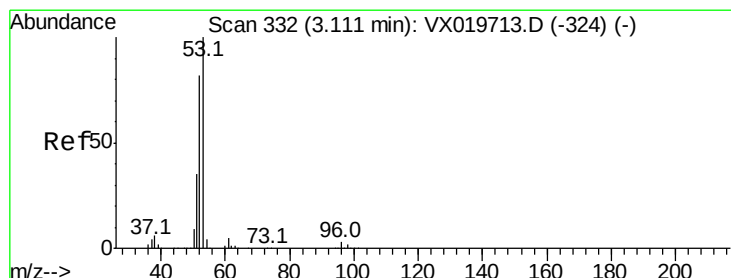
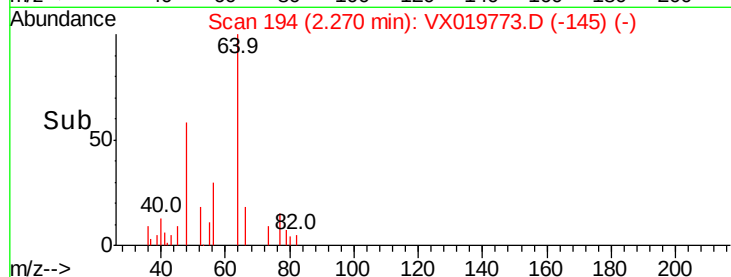
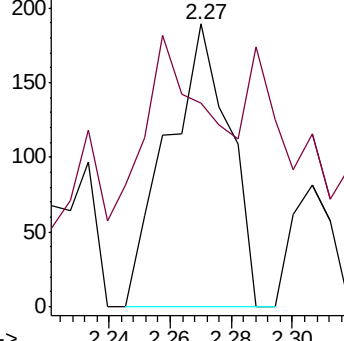
56 100

55 75.1 56.4 84.6



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.238 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

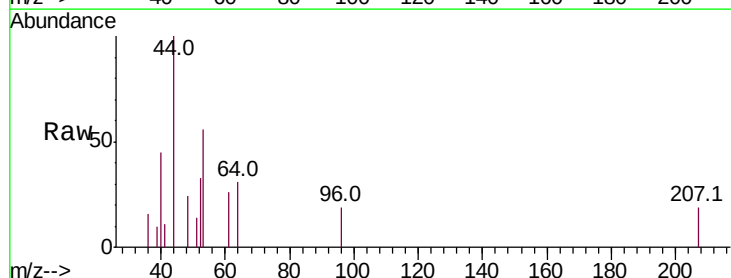
Tgt Ion: 53 Resp: 491

Ion Ratio Lower Upper

53 100

52 77.4 65.3 97.9

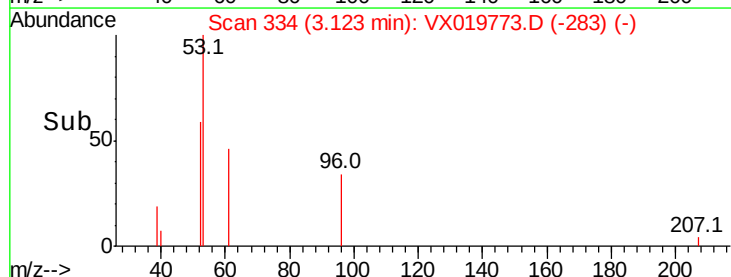
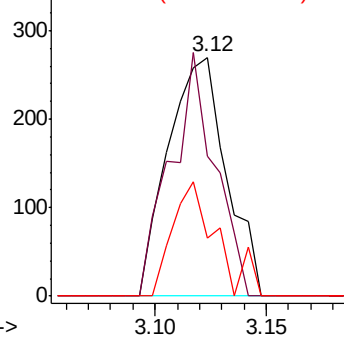
51 0.0 28.2 42.2#

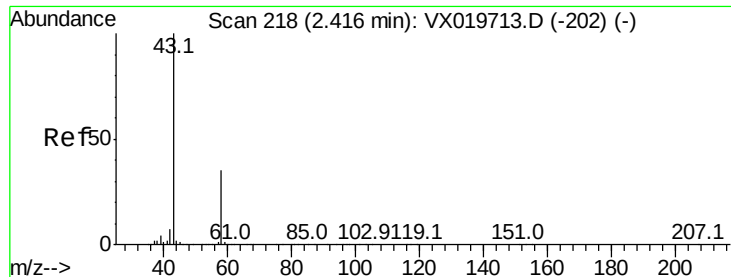


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 10.017 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

Instrument :

MSVOA_X

ClientSampleId :

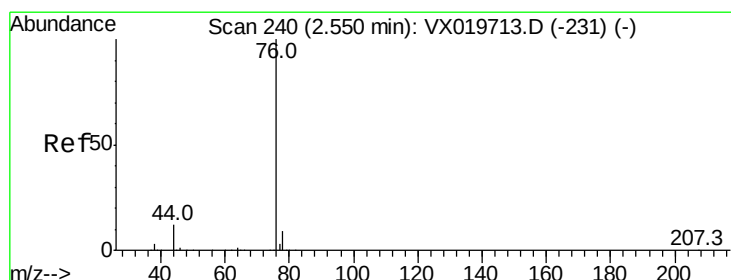
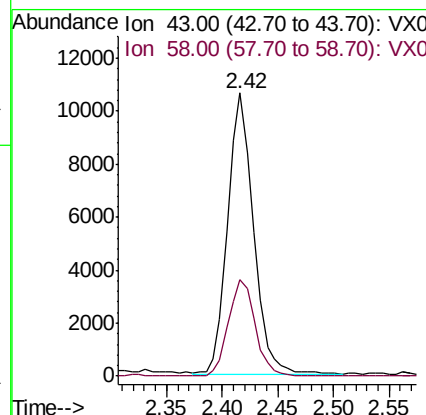
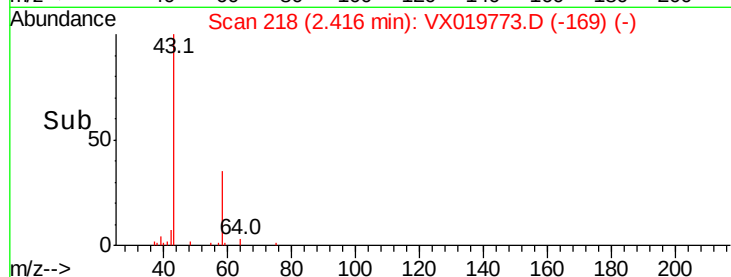
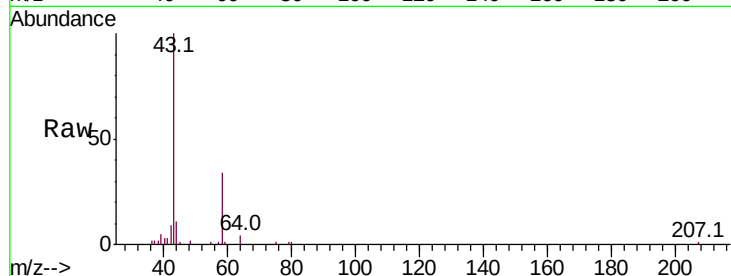
CRT012-1-3

Tot Ion: 43 Resp: 17202

Ion Ratio Lower Upper

43 100

58 34.5 27.8 41.8



#17

Carbon Disulfide

Concen: 0.250 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019773.D

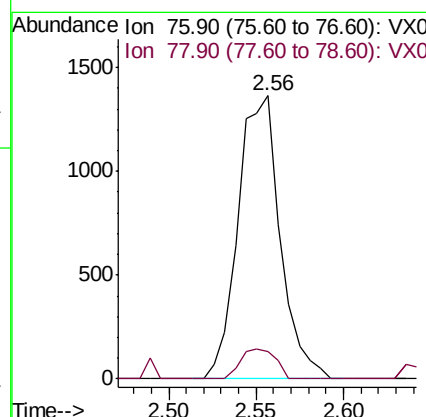
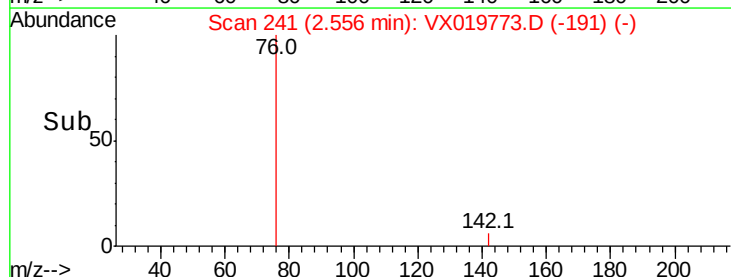
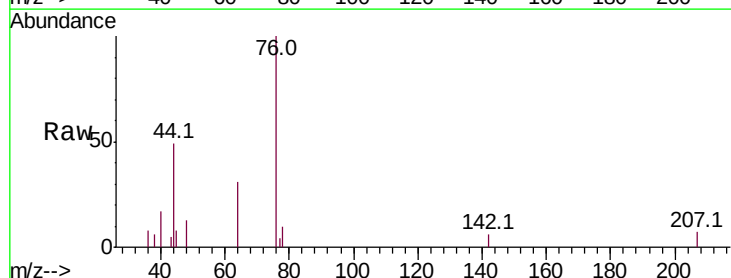
Acq: 09 Dec 2020 13:04

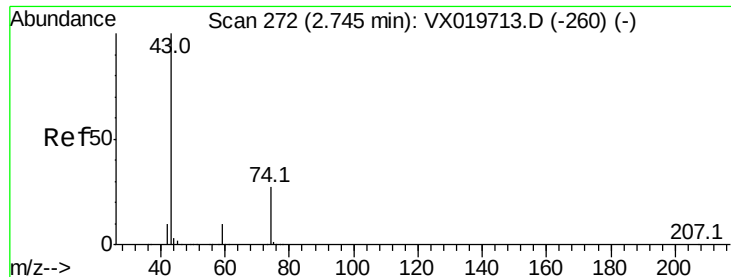
Tgt Ion: 76 Resp: 2282

Ion Ratio Lower Upper

76 100

78 9.8 7.2 10.8

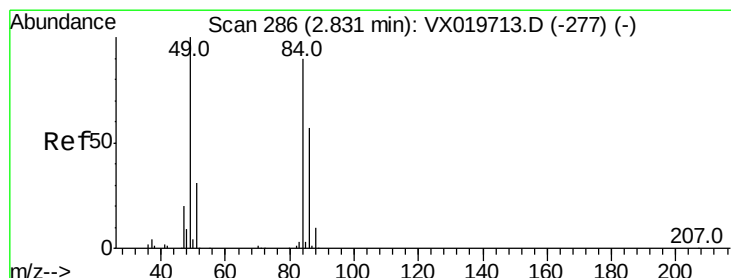
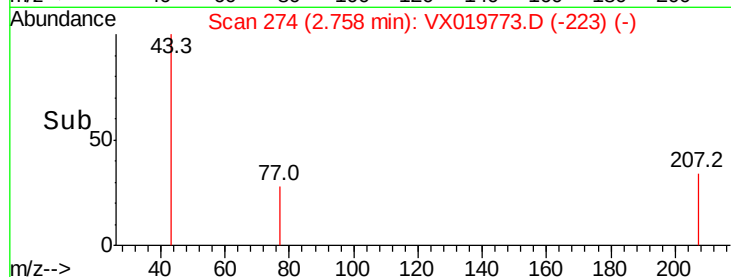
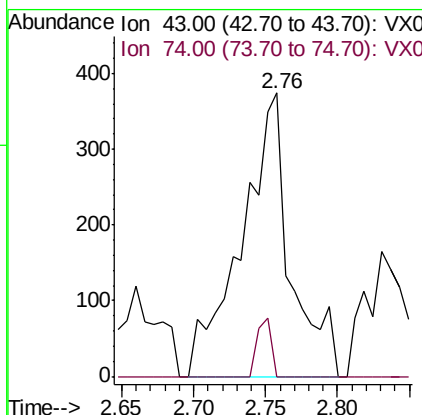
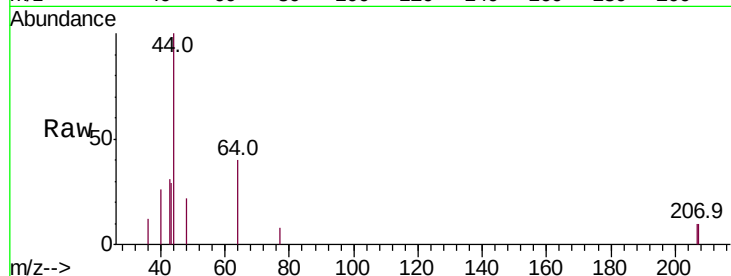




#18
Methyl Acetate
Concen: 0.210 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX019773.D
Acq: 09 Dec 2020 13:04

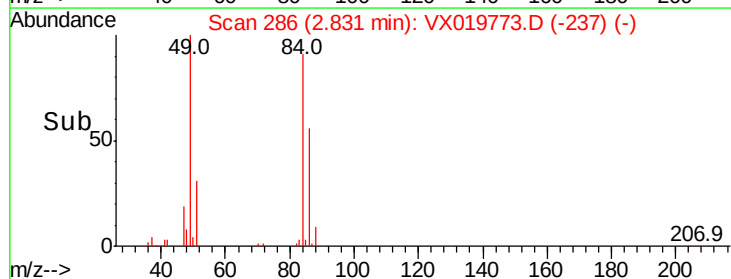
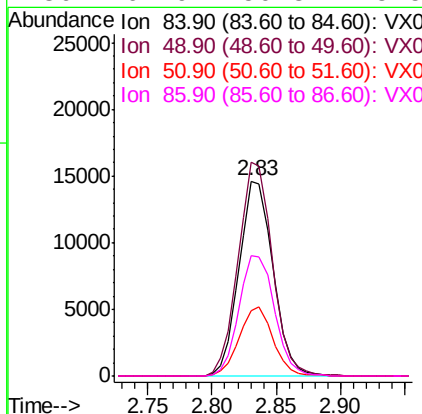
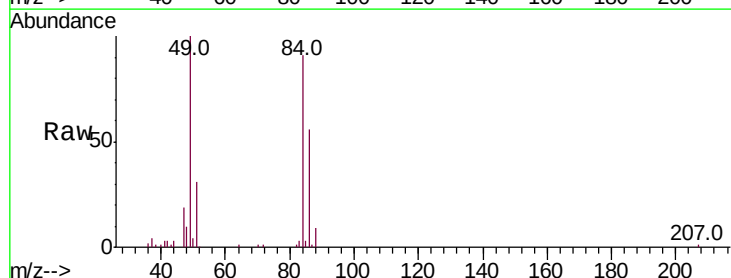
Instrument :
MSVOA_X
ClientSampled :
CRT012-1-3

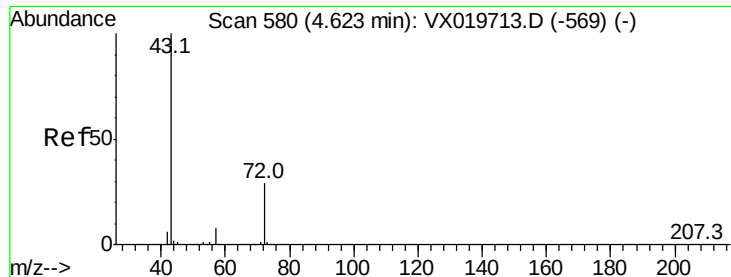
Tot Ion: 43 Resp: 882
Ion Ratio Lower Upper
43 100
74 5.8 21.9 32.9#



#20
Methylene Chloride
Concen: 5.560 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019773.D
Acq: 09 Dec 2020 13:04

Tgt Ion: 84 Resp: 26754
Ion Ratio Lower Upper
84 100
49 109.6 88.6 132.8
51 33.7 27.0 40.6
86 61.9 50.3 75.5





#25

2-Butanone

Concen: 0.764 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

Instrument :

MSVOA_X

ClientSampled :

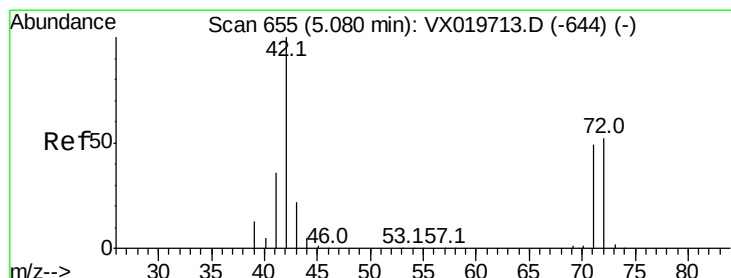
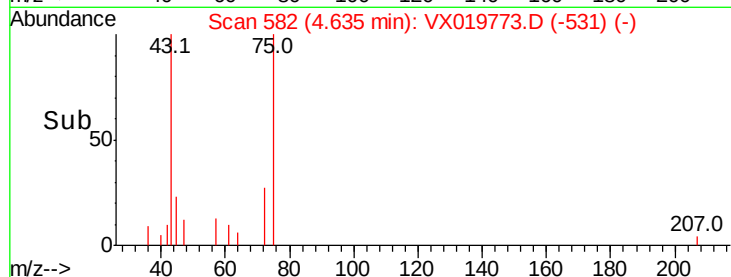
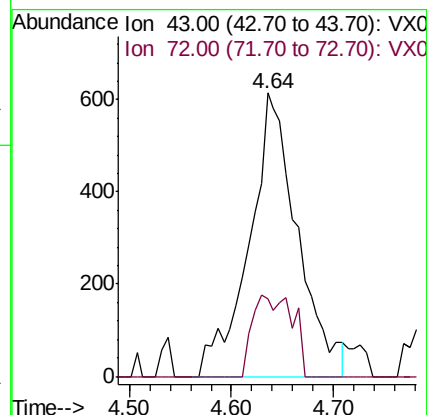
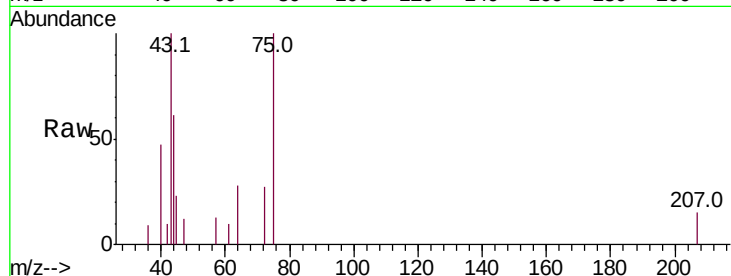
CRT012-1-3

Tot Ion: 43 Resp: 2016

Ion Ratio Lower Upper

43 100

72 27.2 23.7 35.5



#29

Tetrahydrofuran

Concen: 0.680 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

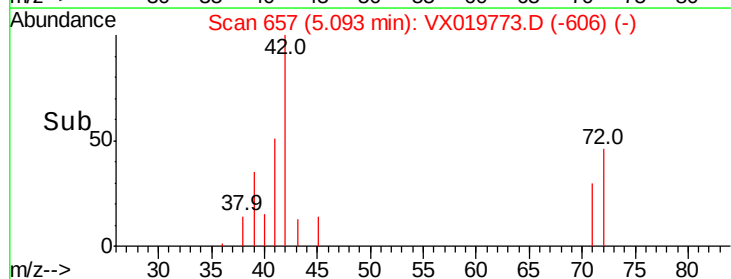
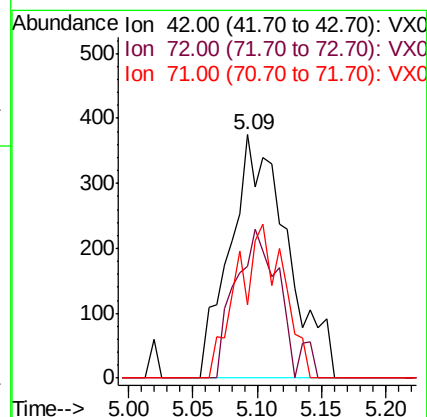
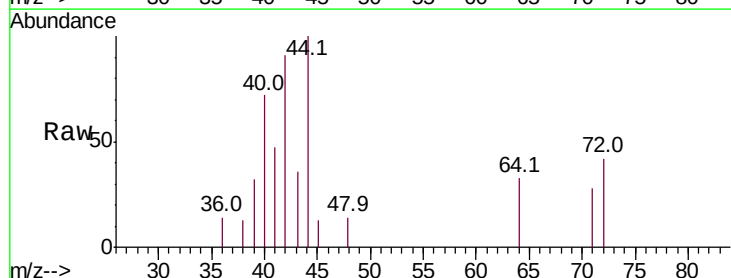
Tgt Ion: 42 Resp: 1156

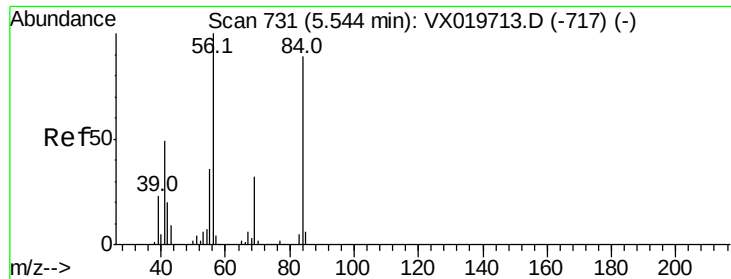
Ion Ratio Lower Upper

42 100

72 45.1 41.7 62.5

71 51.3 38.4 57.6

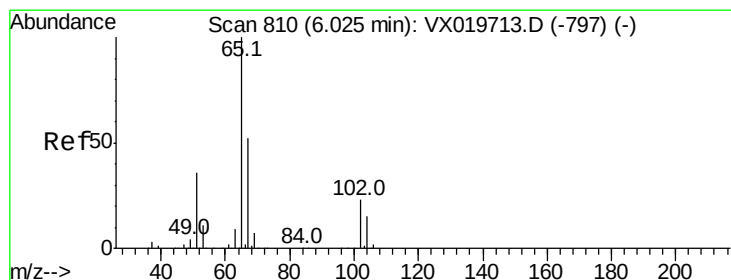
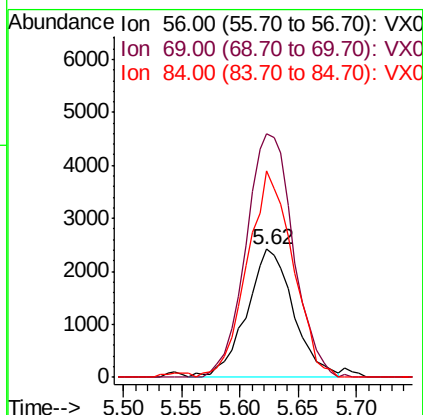
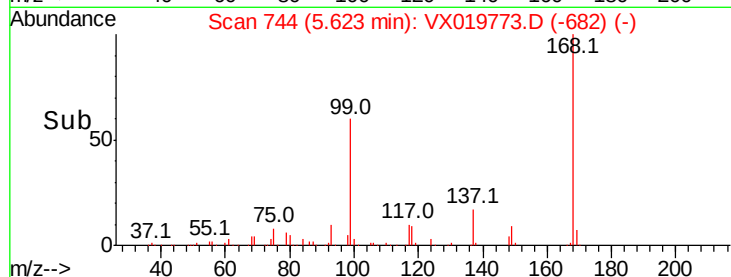
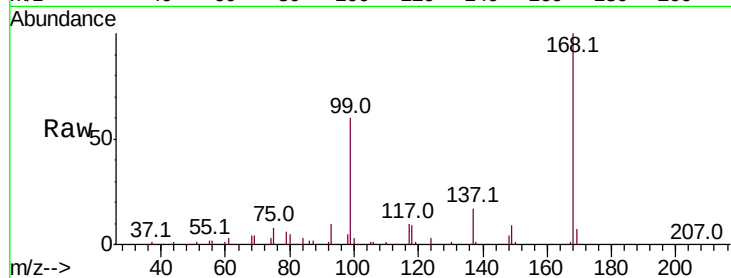




#31
Cyclohexane
Concen: 1.194 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019773.D
Acq: 09 Dec 2020 13:04

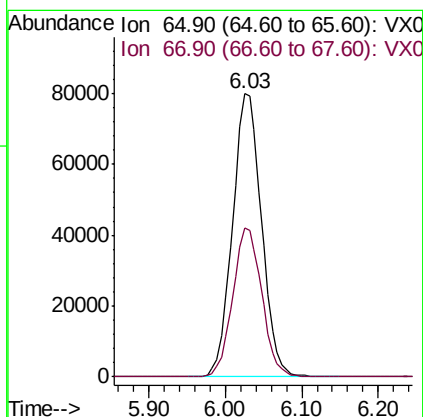
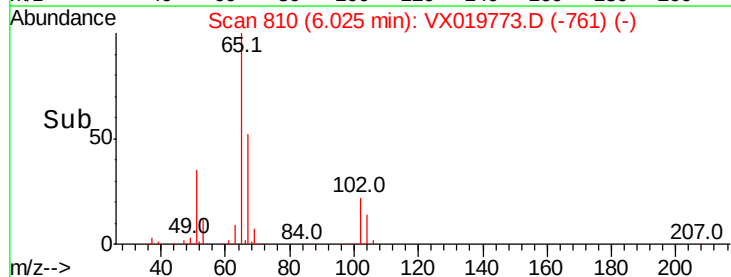
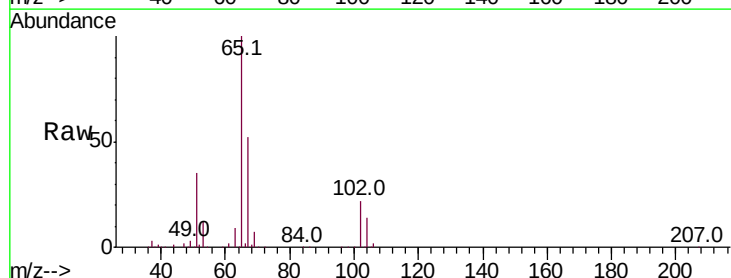
Instrument :
MSVOA_X
ClientSampleId :
CRT012-1-3

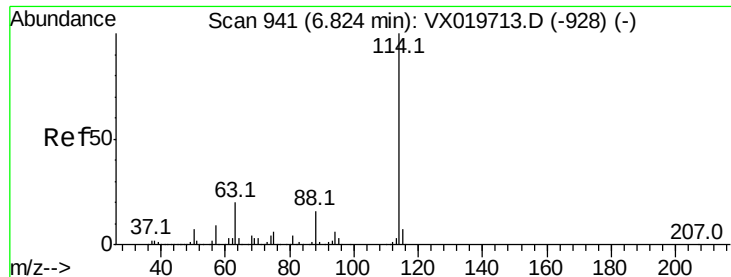
Tot Ion: 56 Resp: 6784
Ion Ratio Lower Upper
56 100
69 190.5 25.3 37.9#
84 161.3 71.4 107.0#



#33
1,2-Dichloroethane-d4
Concen: 45.982 ug/l
RT: 6.03 min Scan# 810
Delta R.T. 0.00 min
Lab File: VX019773.D
Acq: 09 Dec 2020 13:04

Tgt Ion: 65 Resp: 210078
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

Instrument :

MSVOA_X

ClientSampleId :

CRT012-1-3

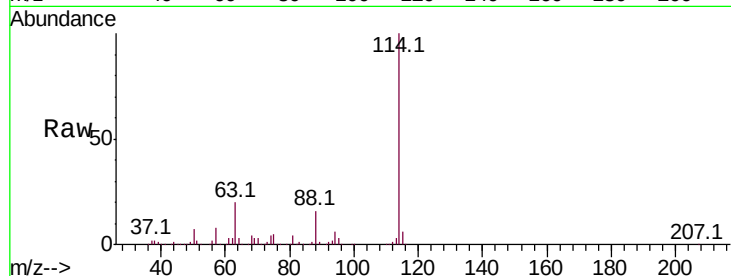
Tot Ion:114 Resp: 567144

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

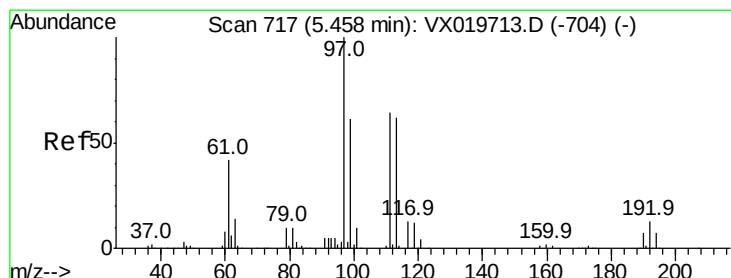
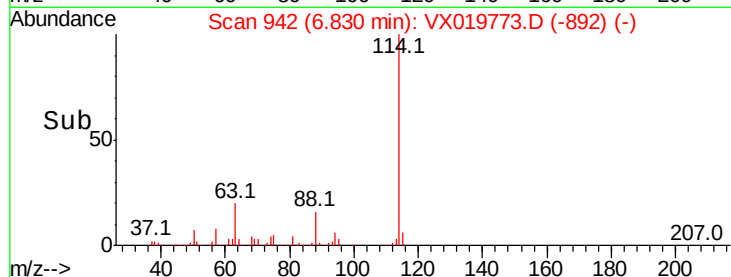
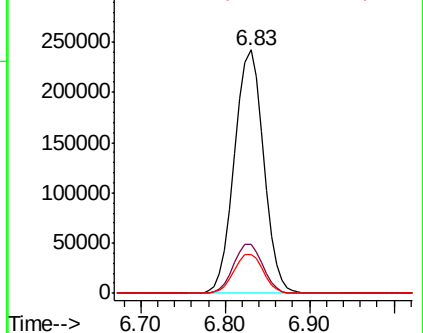
88 15.7 0.0 32.8



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: 47.260 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

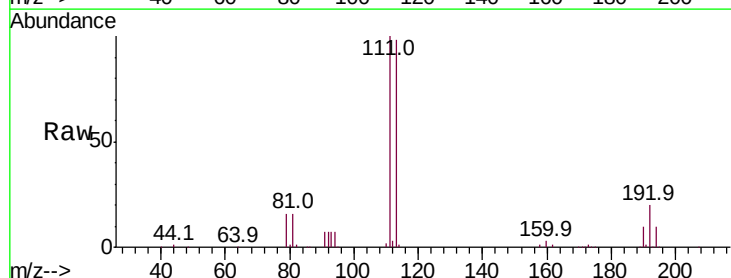
Tgt Ion:113 Resp: 173226

Ion Ratio Lower Upper

113 100

111 102.4 81.9 122.9

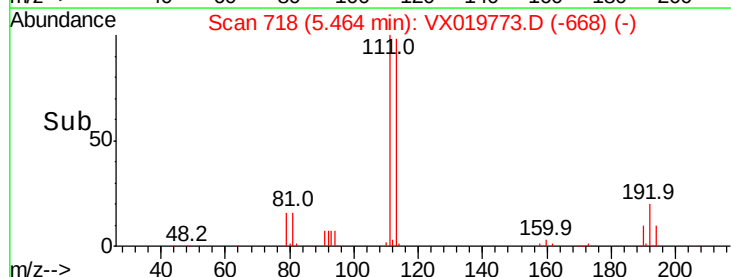
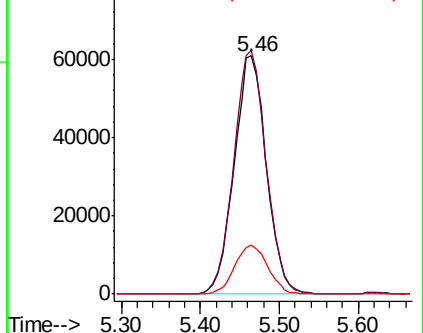
192 21.1 16.7 25.1

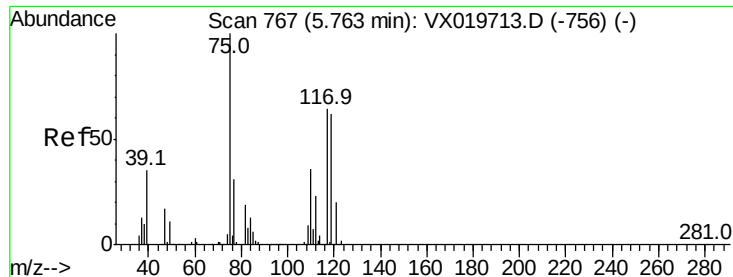


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

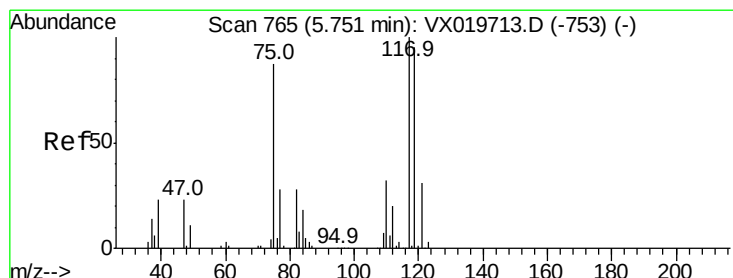
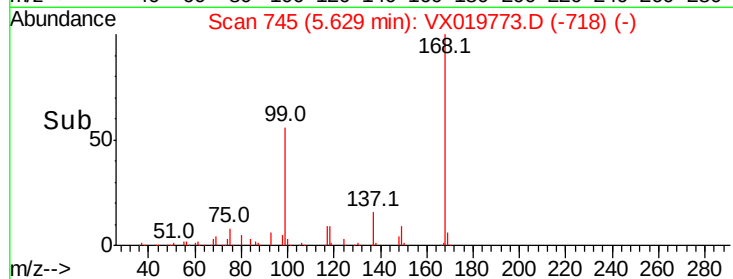
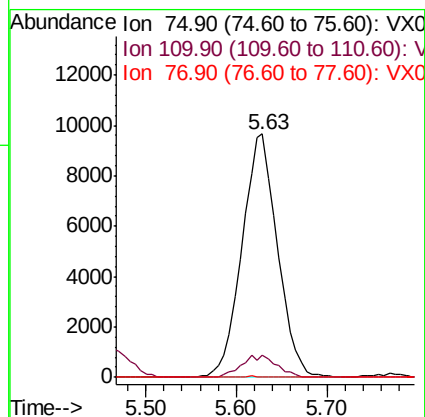
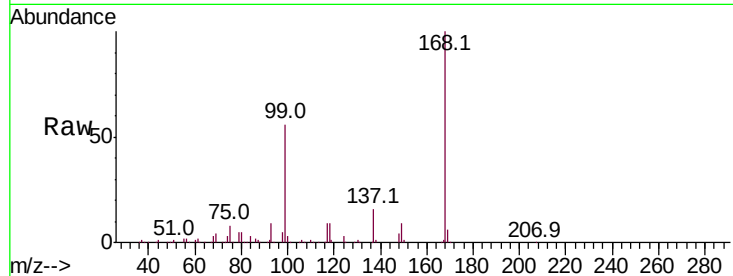




#36
 1,1-Dichloropropene
 Concen: 5.090 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019773.D
 Acq: 09 Dec 2020 13:04

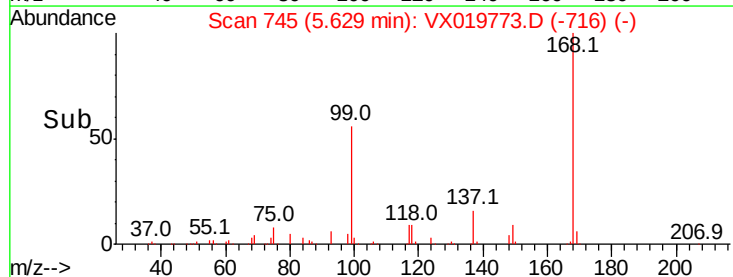
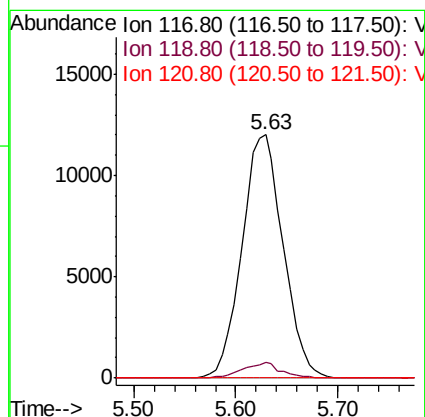
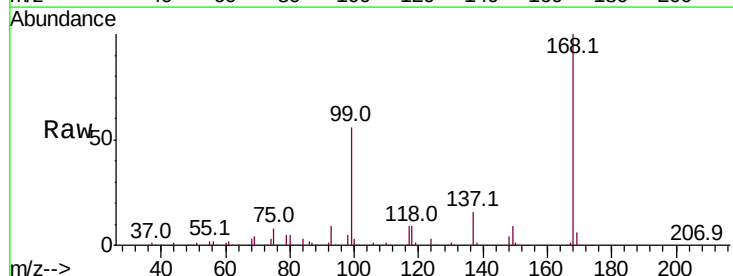
Instrument :
 MSVOA_X
 ClientSampleId :
 CRT012-1-3

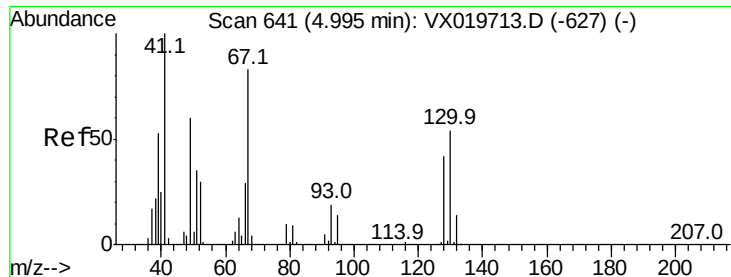
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.4#
77	0.1	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 6.709 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019773.D
 Acq: 09 Dec 2020 13:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	76.2	114.2#
121	0.0	24.8	37.2#

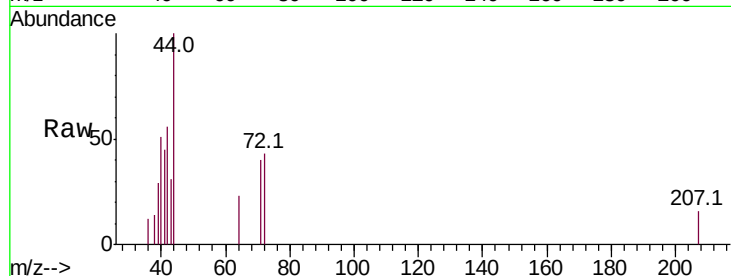




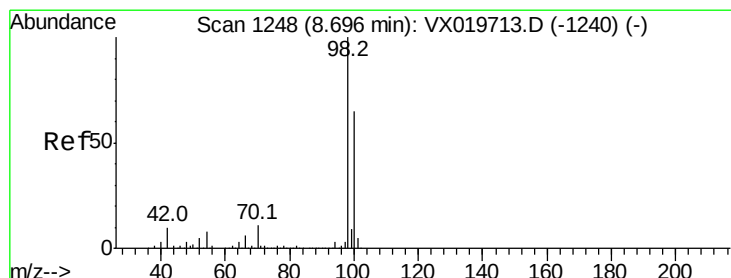
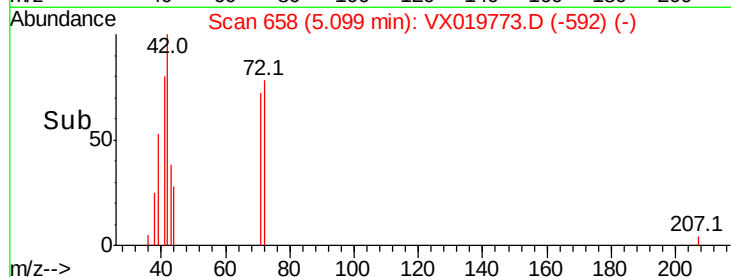
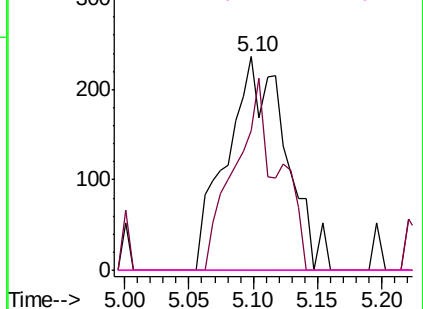
#41
Methacrylonitrile
Concen: 0.265 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX019773.D
Acq: 09 Dec 2020 13:04

Instrument :
MSVOA_X
ClientSampled :
CRT012-1-3

Tot Ion: 41 Resp: 753
Ion Ratio Lower Upper
41 100
39 51.4 42.5 63.7
67 0.0 65.0 97.6#
52 0.0 25.3 37.9#

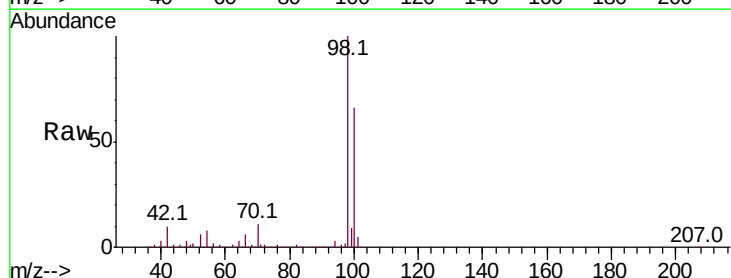


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0

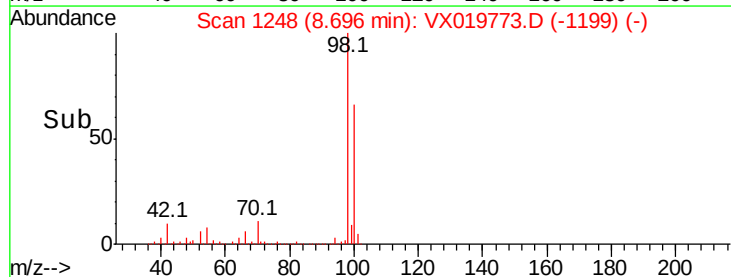
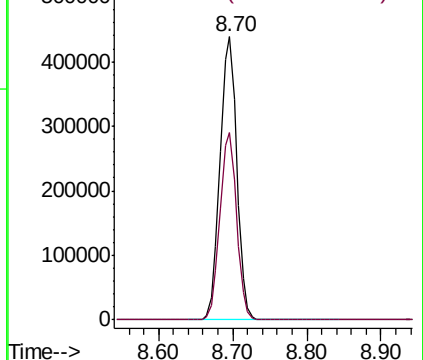


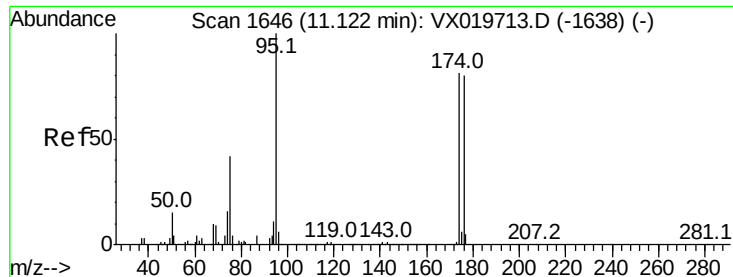
#50
Toluene-d8
Concen: 48.926 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019773.D
Acq: 09 Dec 2020 13:04

Tgt Ion: 98 Resp: 684642
Ion Ratio Lower Upper
98 100
100 65.7 51.9 77.9



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





#62

4-Bromofluorobenzene

Concen: 45.572 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

Instrument :

MSVOA_X

ClientSampleId :

CRT012-1-3

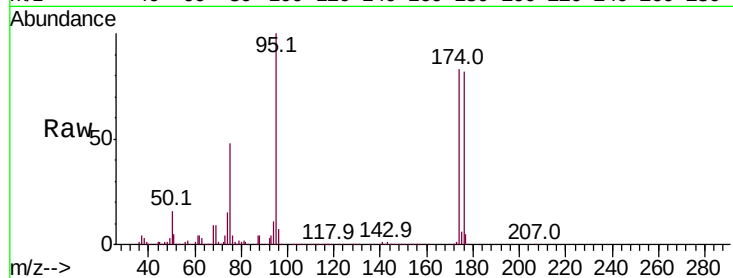
Tot Ion: 95 Resp: 242722

Ion Ratio Lower Upper

95 100

174 79.6 0.0 154.6

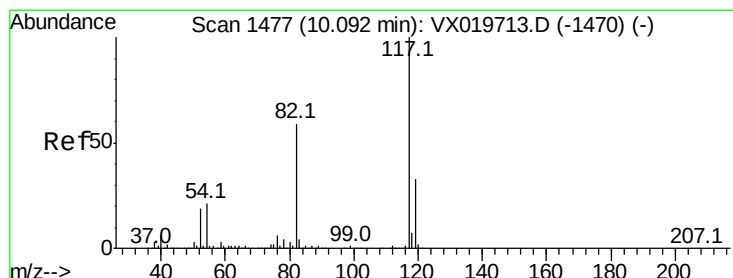
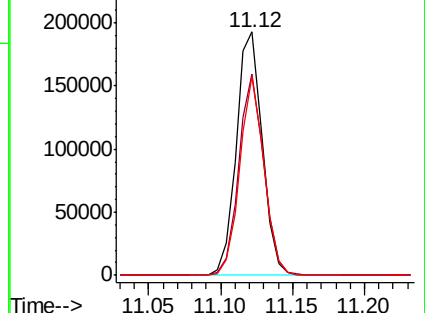
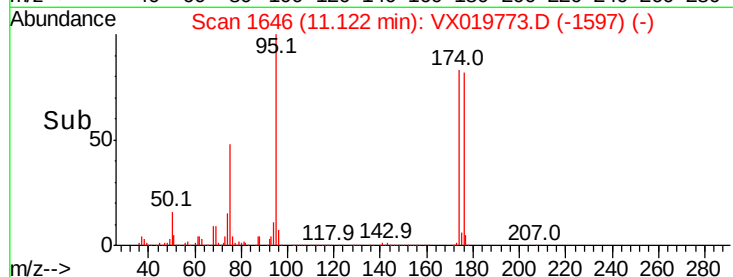
176 76.4 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX019773.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX019773.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX019773.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

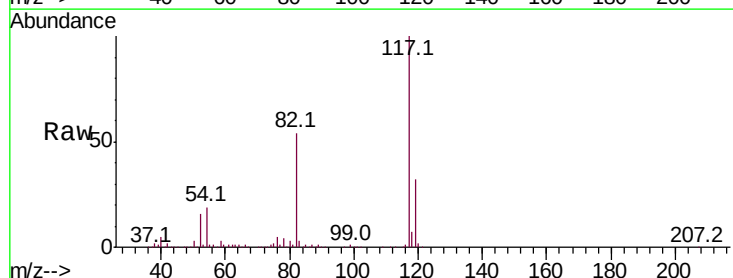
Tgt Ion: 117 Resp: 515778

Ion Ratio Lower Upper

117 100

82 53.7 47.4 71.2

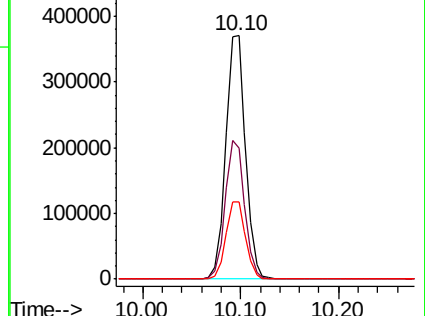
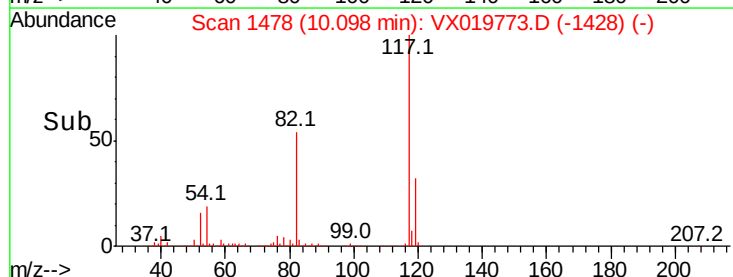
119 31.8 26.6 39.8

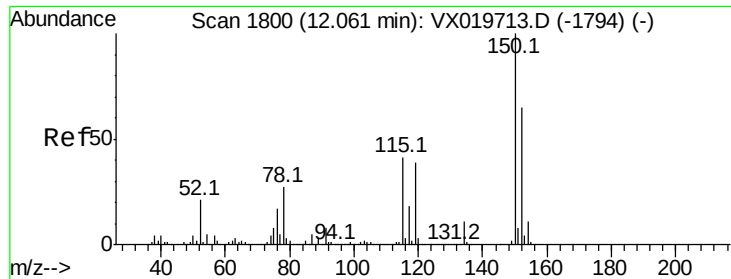


Abundance Ion 116.90 (116.60 to 117.60): VX019773.D (-1428) (-)

Ion 82.00 (81.70 to 82.70): VX019773.D (-1428) (-)

Ion 118.90 (118.60 to 119.60): VX019773.D (-1428) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

Instrument :

MSVOA_X

ClientSampleId :

CRT012-1-3

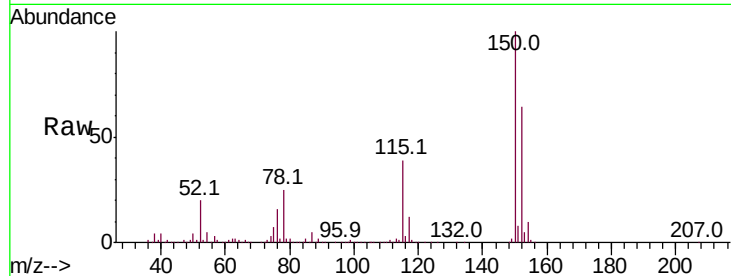
Tot Ion:152 Resp: 231935

Ion Ratio Lower Upper

152 100

115 59.0 41.1 123.3

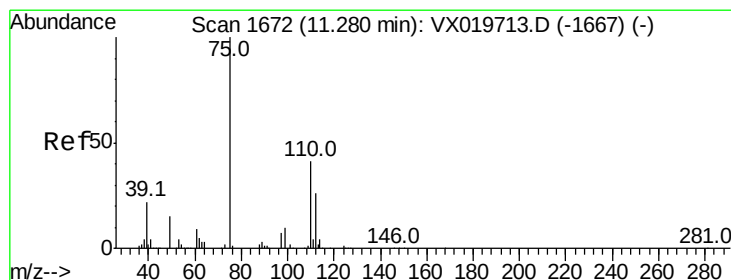
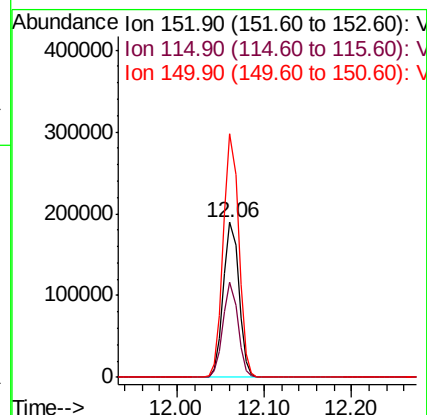
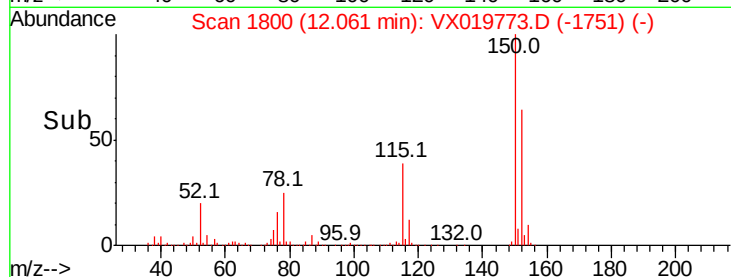
150 156.6 0.0 349.0



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: 22.623 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019773.D

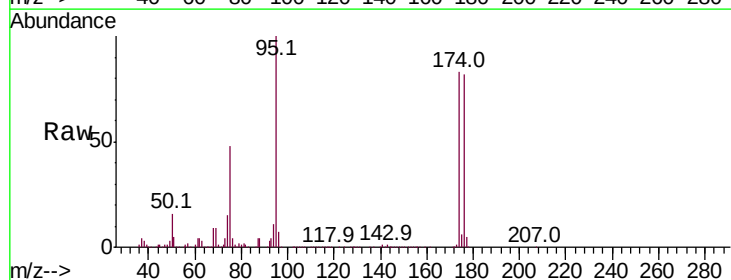
Acq: 09 Dec 2020 13:04

Tgt Ion: 75 Resp: 117683

Ion Ratio Lower Upper

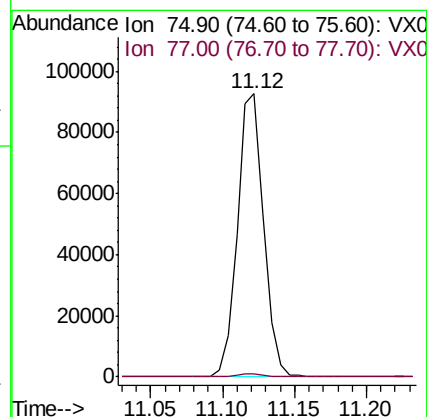
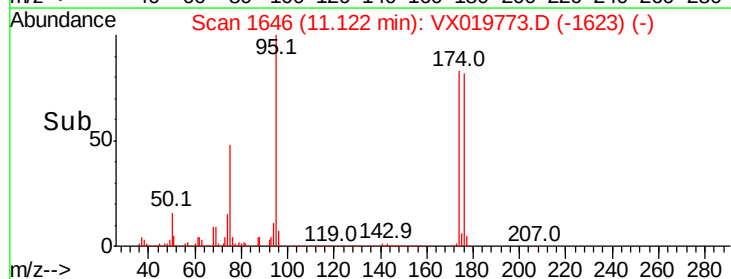
75 100

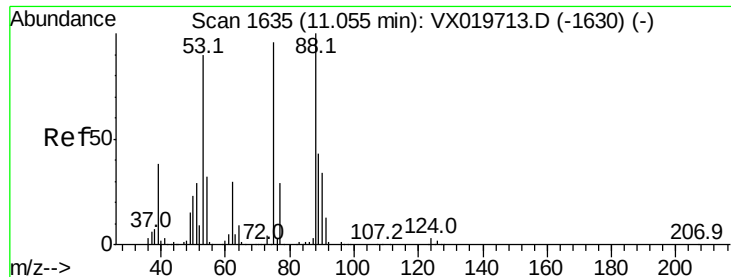
77 1.2 19.1 57.5#



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: 65.399 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

Instrument :

MSVOA_X

ClientSampled :

CRT012-1-3

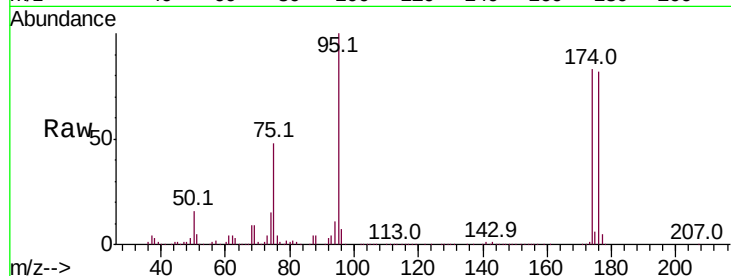
Tot Ion: 75 Resp: 117683

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

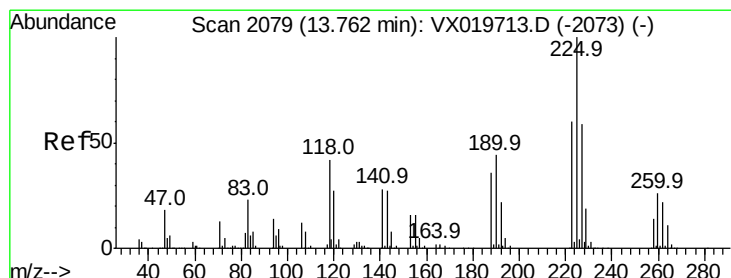
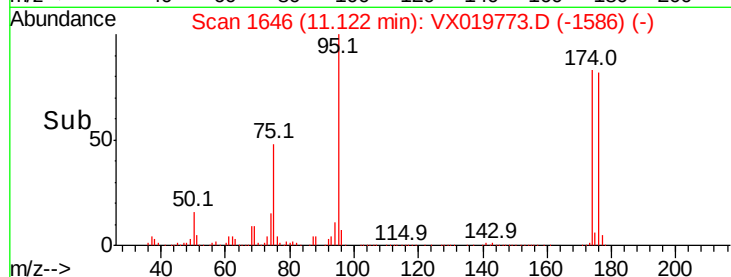
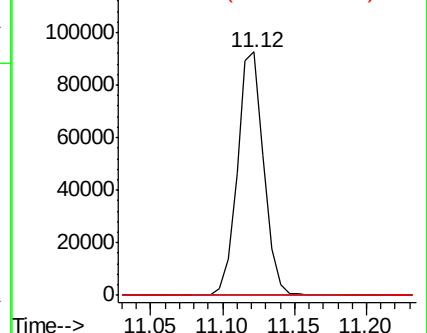
89 0.0 37.9 56.9#



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



#94

Hexachlorobutadiene

Concen: 0.242 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

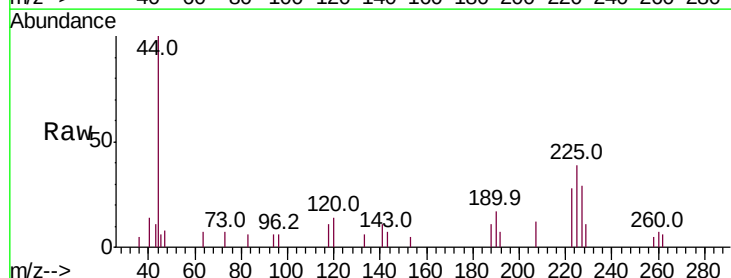
Tgt Ion: 225 Resp: 510

Ion Ratio Lower Upper

225 100

223 66.5 31.1 93.2

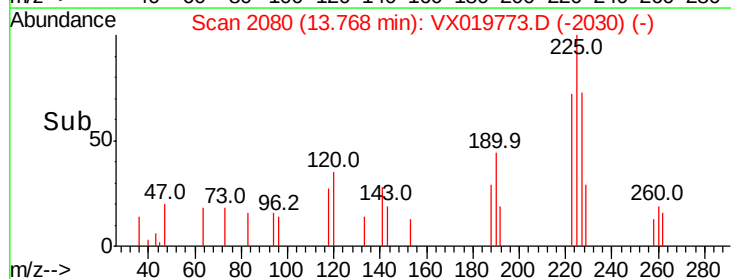
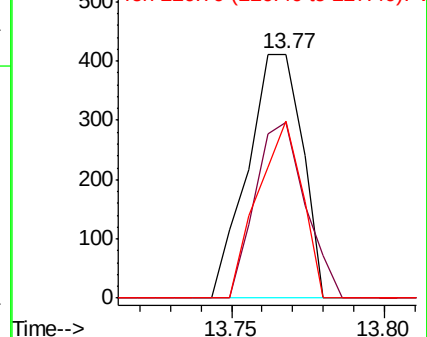
227 59.0 31.6 95.0

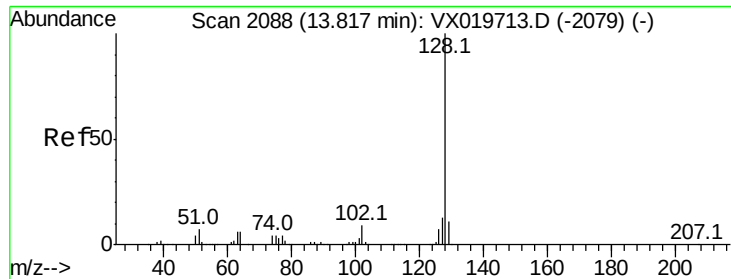


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.588 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019773.D

Acq: 09 Dec 2020 13:04

Instrument :

MSVOA_X

ClientSampleId :

CRT012-1-3

Tot Ion:128 Resp: 8997

Ion Ratio Lower Upper

128 100

127 13.5 10.3 15.5

129 10.2 8.8 13.2

