

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063020\
 Data File : VX017046.D
 Acq On : 30 Jun 2020 15:39
 Operator : JC/SP
 Sample : L3147-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 02BR-20200626

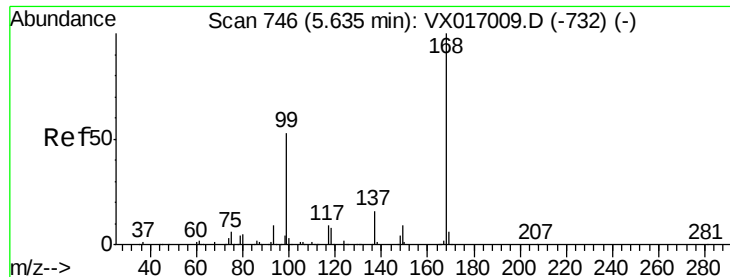
Quant Time: Jul 01 08:06:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	238063	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	402358	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	414665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	219106	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	155203	52.88	ug/l	0.00
Spiked Amount			Recovery	=	105.76%	
35) Dibromofluoromethane	5.46	113	134289	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
50) Toluene-d8	8.70	98	494054	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	
62) 4-Bromofluorobenzene	11.12	95	203688	55.36	ug/l	0.00
Spiked Amount			Recovery	=	110.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1775	0.637	ug/l	91
4) Vinyl Chloride	1.39	62	5186	2.005	ug/l	98
8) Diethyl Ether	2.15	74	40	0.396	ug/l #	1
11) Tert butyl alcohol	3.01	59	170	0.304	ug/l #	73
12) 1,1-Dichloroethene	2.36	96	890	0.378	ug/l	80
13) Acrolein	2.25	56	192	0.574	ug/l	86
16) Acetone	2.42	43	5700	5.192	ug/l	98
20) Methylene Chloride	2.83	84	916	Below Cal	#	79
21) trans-1,2-Dichloroethene	3.14	96	680	0.260	ug/l #	81
27) cis-1,2-Dichloroethene	4.57	96	97842	33.037	ug/l	89
36) 1,1-Dichloropropene	5.63	75	17080	4.491	ug/l #	50
38) Carbon Tetrachloride	5.63	117	23291	5.561	ug/l #	17
39) Methylcyclohexane	7.19	83	2506	0.592	ug/l #	1
44) Trichloroethene	7.19	130	214608	69.727	ug/l	99
49) 1,4-Dioxane	7.55	88	20	0.290	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	101259	23.502	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	101259	60.861	ug/l #	13
88) 1,4-Dichlorobenzene	12.06	146	654	Below Cal	#	1
94) Hexachlorobutadiene	13.77	225	20	0.856	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

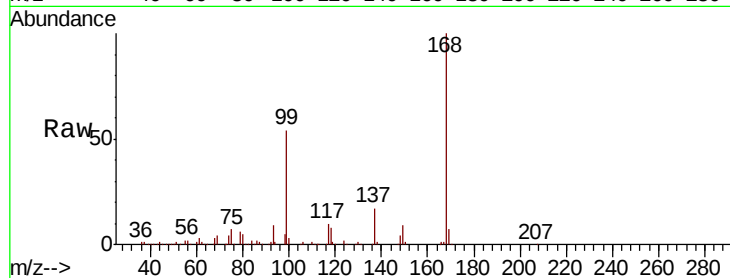
02BR-20200626

Tot Ion:168 Resp: 238063

Ion Ratio Lower Upper

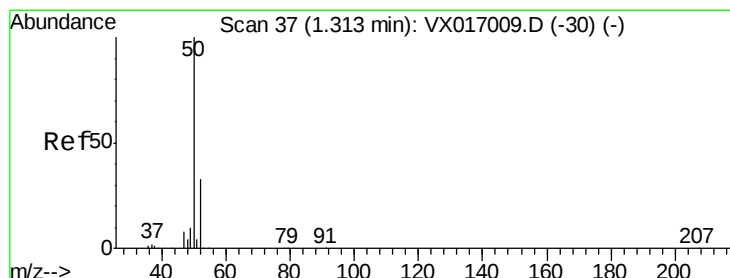
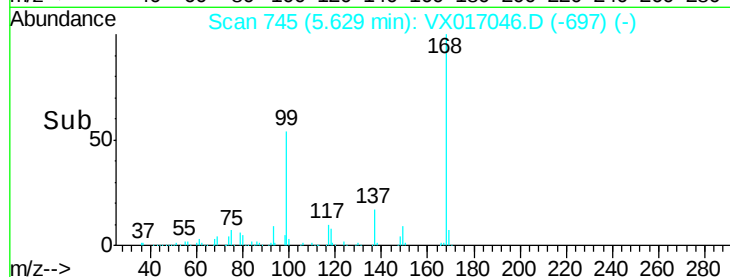
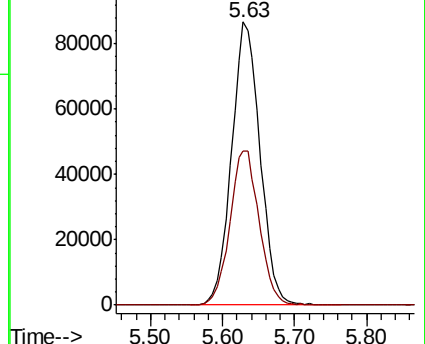
168 100

99 54.4 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.637 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017046.D

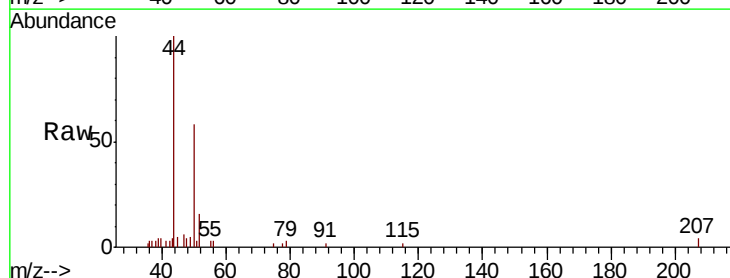
Acq: 30 Jun 2020 15:39

Tgt Ion: 50 Resp: 1775

Ion Ratio Lower Upper

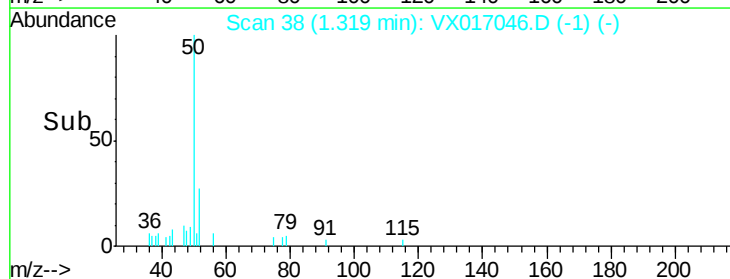
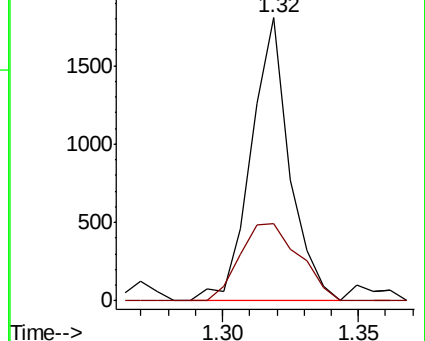
50 100

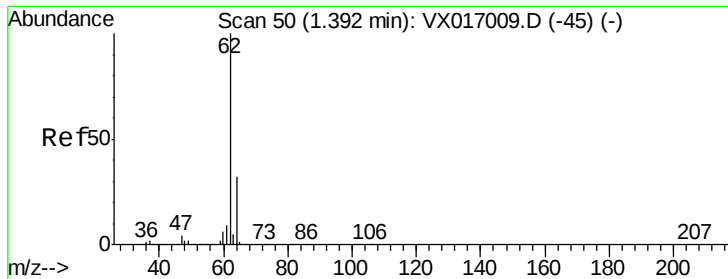
52 27.4 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 2.005 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

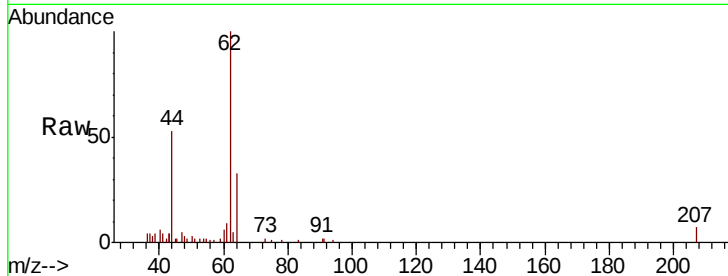
02BR-20200626

Tot Ion: 62 Resp: 5186

Ion Ratio Lower Upper

62 100

64 33.4 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

5000

4000

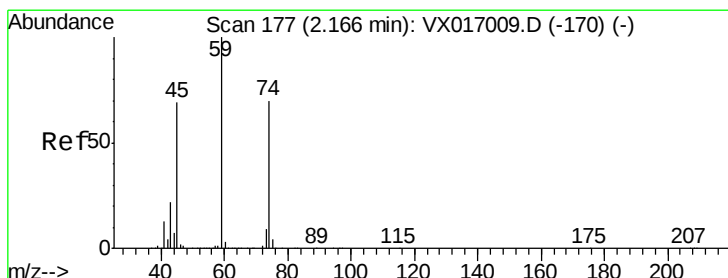
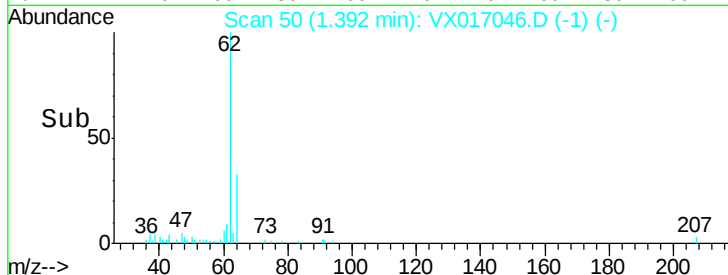
3000

2000

1000

0

Time-->



#8

Diethyl Ether

Concen: 0.396 ug/l

RT: 2.15 min Scan# 175

Delta R.T. -0.01 min

Lab File: VX017046.D

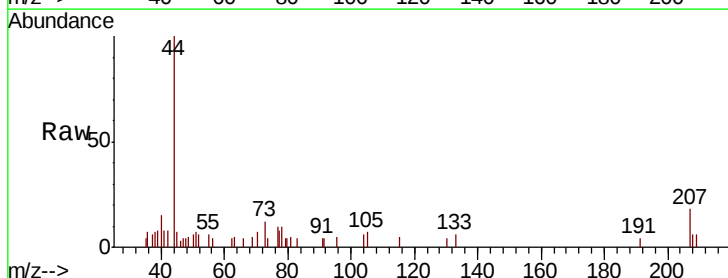
Acq: 30 Jun 2020 15:39

Tgt Ion: 74 Resp: 40

Ion Ratio Lower Upper

74 100

45 0.0 49.8 149.3#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

250

200

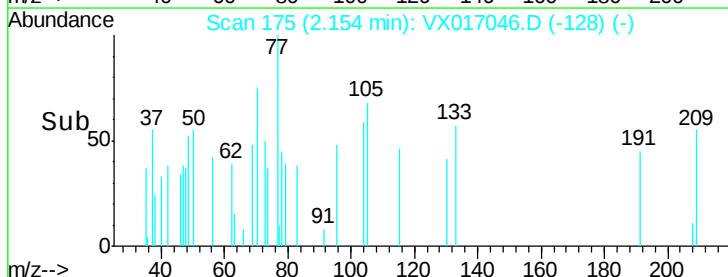
150

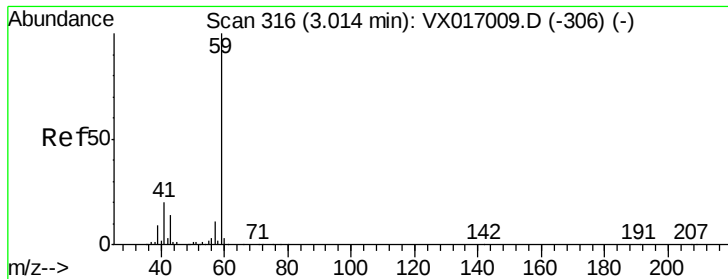
100

50

0

Time-->



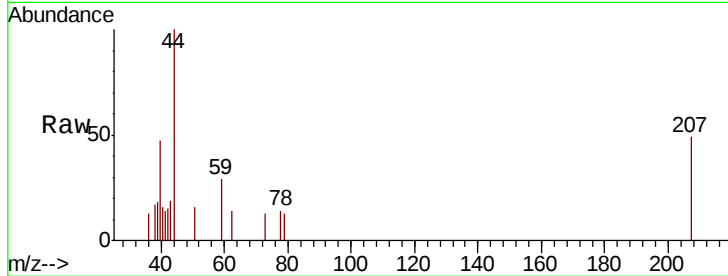


#11

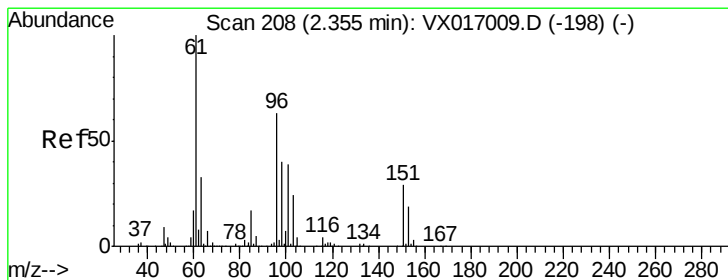
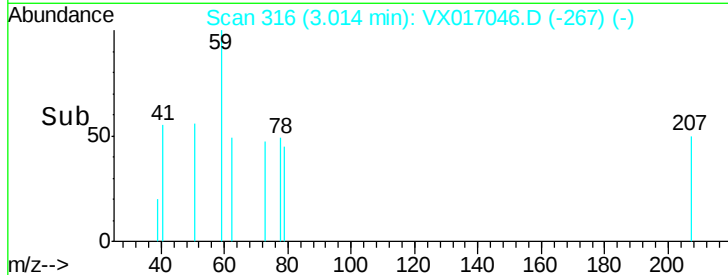
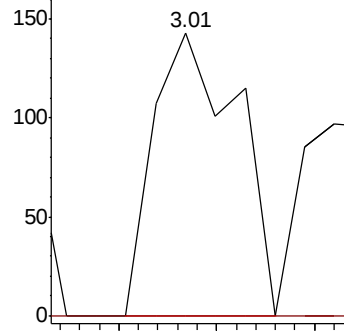
Tert butyl alcohol
Concen: 0.304 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX017046.D
Acq: 30 Jun 2020 15:39

Instrument :
MSVOA_X
ClientSampleId :
02BR-20200626

Tot Ion: 59 Resp: 170
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



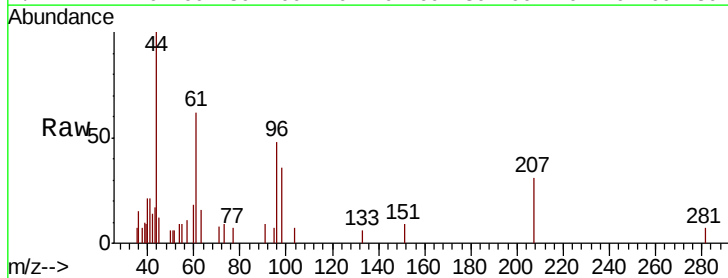
Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



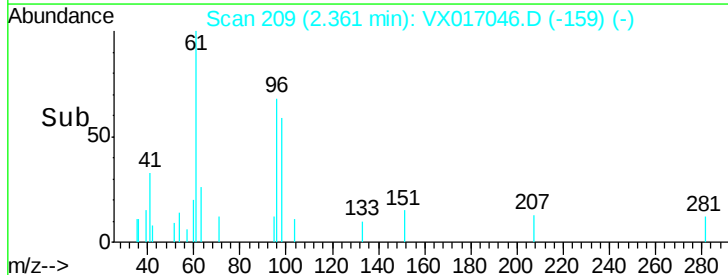
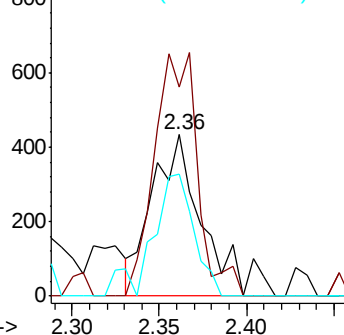
#12

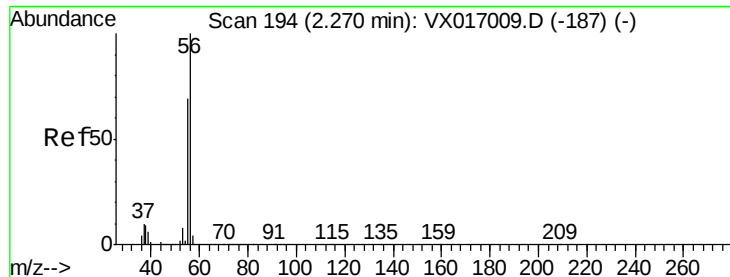
1,1-Dichloroethene
Concen: 0.378 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX017046.D
Acq: 30 Jun 2020 15:39

Tgt Ion: 96 Resp: 890
Ion Ratio Lower Upper
96 100
61 129.6 126.3 189.5
98 76.0 51.0 76.6



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





#13

Acrolein

Concen: 0.574 ug/l

RT: 2.25 min Scan# 191

Delta R.T. -0.02 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

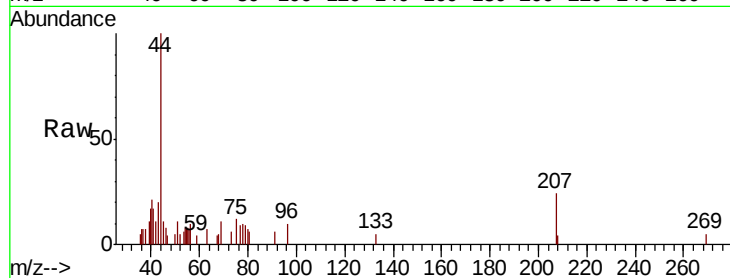
02BR-20200626

Tot Ion: 56 Resp: 192

Ion Ratio Lower Upper

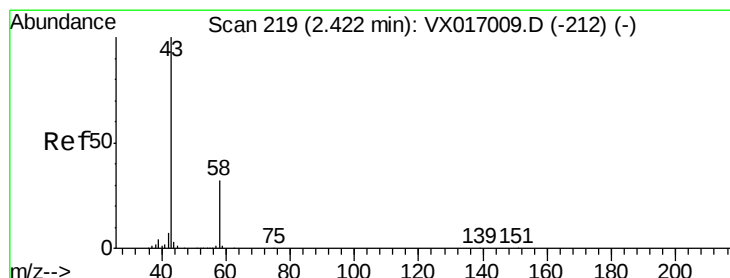
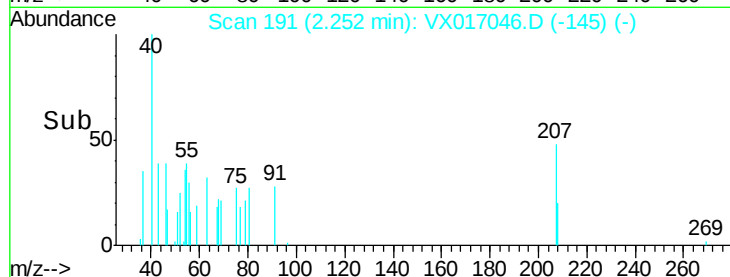
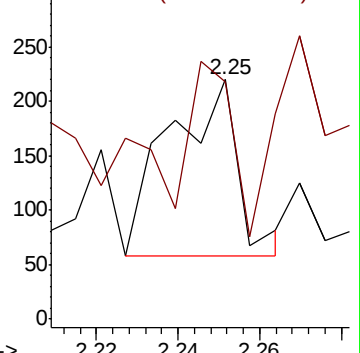
56 100

55 58.3 55.7 83.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.192 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017046.D

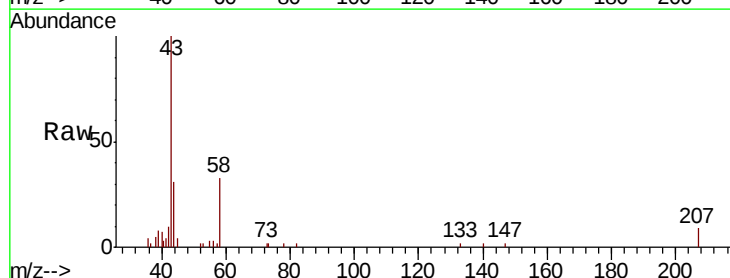
Acq: 30 Jun 2020 15:39

Tgt Ion: 43 Resp: 5700

Ion Ratio Lower Upper

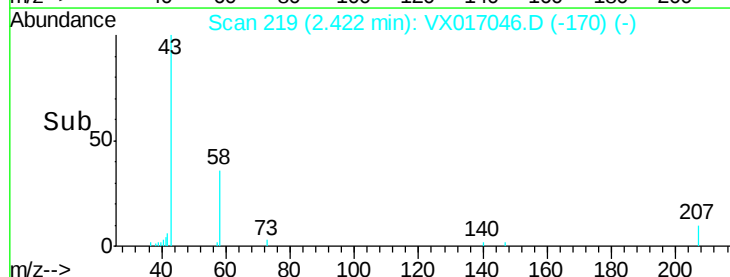
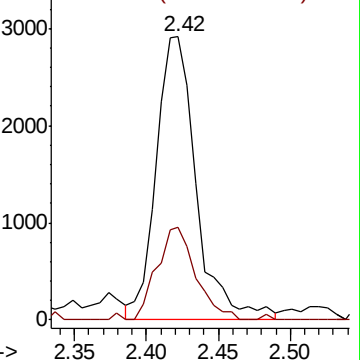
43 100

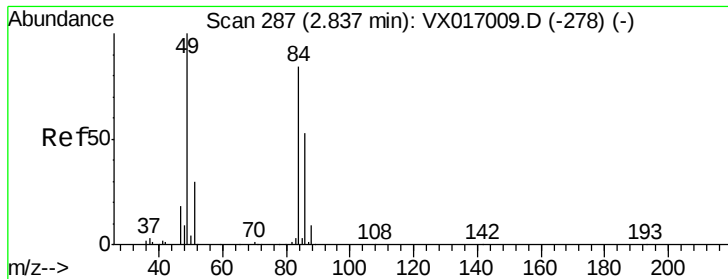
58 33.4 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

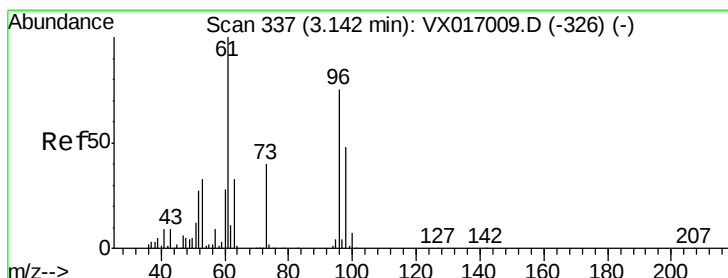
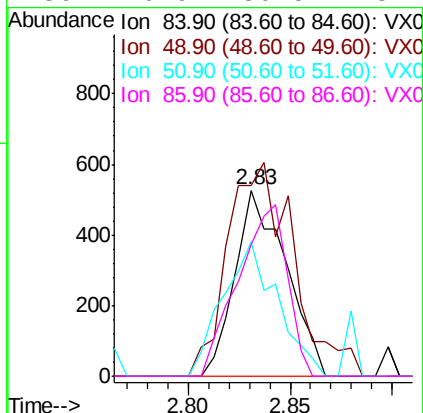
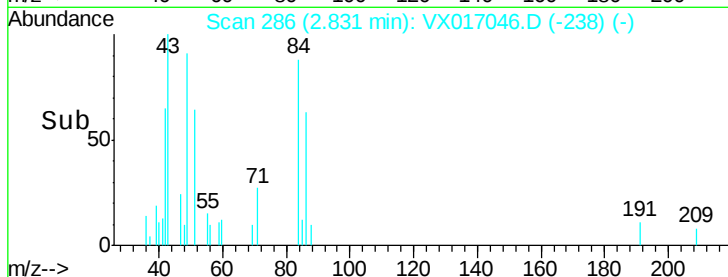
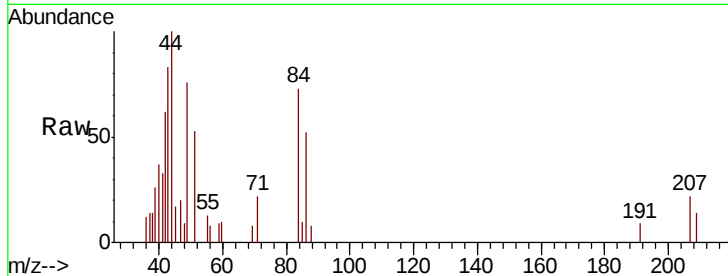




#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017046.D
Acq: 30 Jun 2020 15:39

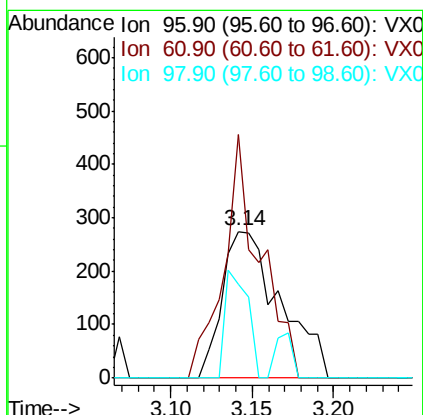
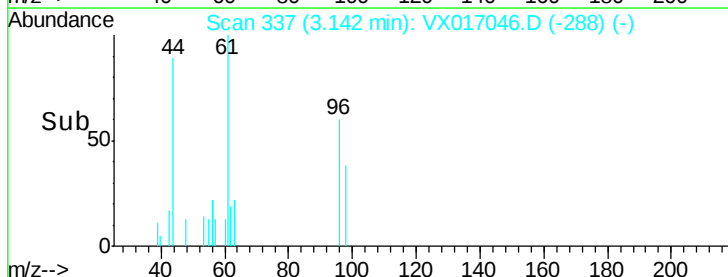
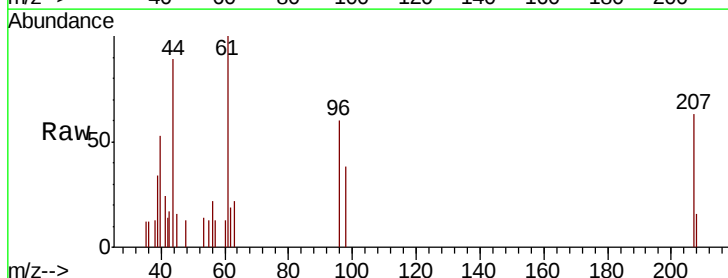
Instrument :
MSVOA_X
ClientSampleId :
02BR-20200626

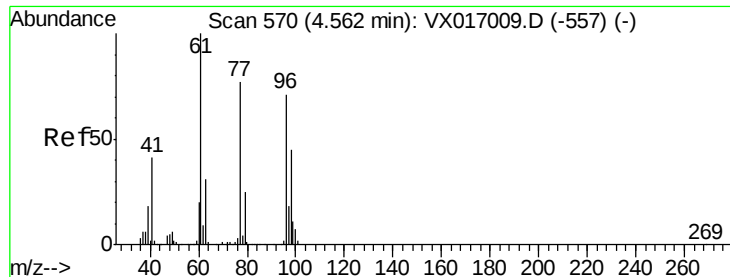
Tot Ion: 84 Resp: 916
Ion Ratio Lower Upper
84 100
49 102.9 94.7 142.1
51 72.4 28.6 42.8#
86 70.9 50.5 75.7



#21
trans-1,2-Dichloroethene
Concen: 0.260 ug/l
RT: 3.14 min Scan# 337
Delta R.T. -0.00 min
Lab File: VX017046.D
Acq: 30 Jun 2020 15:39

Tgt Ion: 96 Resp: 680
Ion Ratio Lower Upper
96 100
61 166.4 107.0 160.6#
98 63.9 51.6 77.4



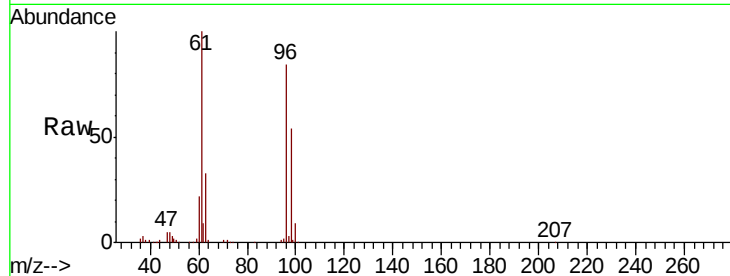


#27

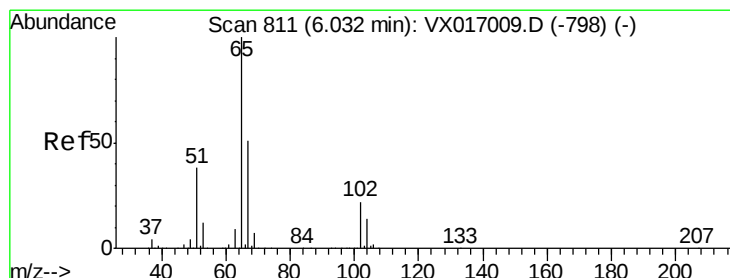
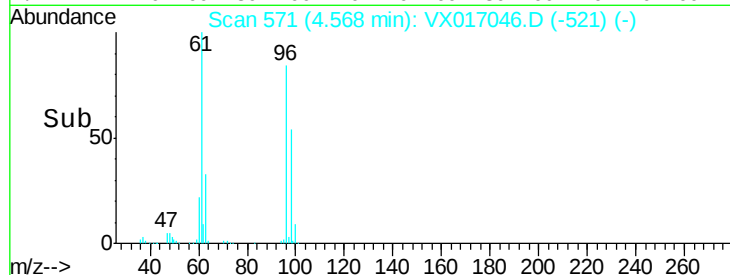
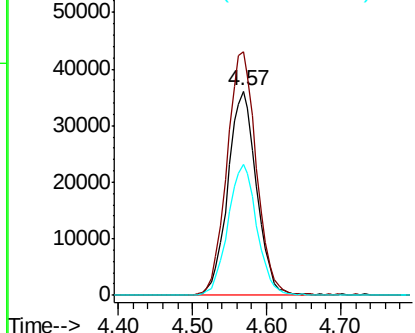
cis-1,2-Dichloroethene
 Concen: 33.037 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VX017046.D
 Acq: 30 Jun 2020 15:39

Instrument :
 MSVOA_X
 ClientSampleId :
 02BR-20200626

Tot Ion	96	Resp	97842
Ion	Ratio	Lower	Upper
96	100		
61	121.7	0.0	282.8
98	64.4	0.0	127.6



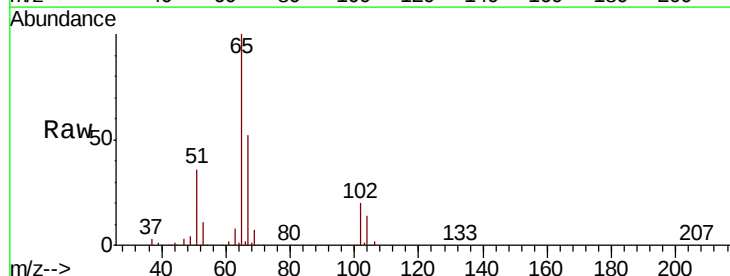
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



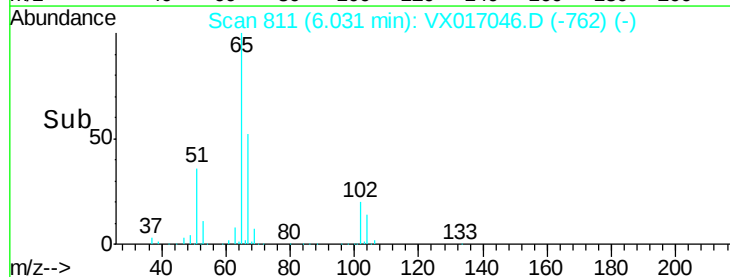
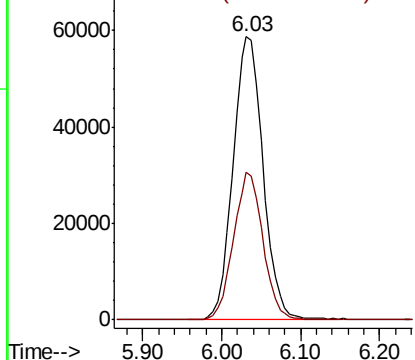
#33

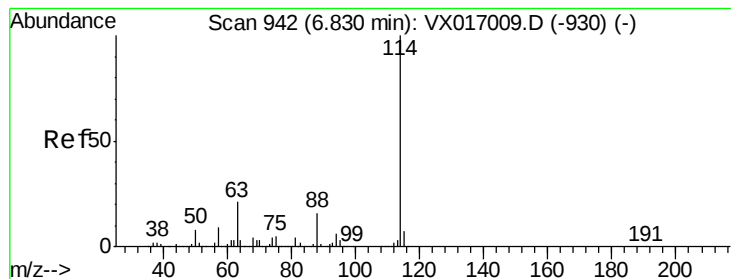
1,2-Dichloroethane-d4
 Concen: 52.883 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017046.D
 Acq: 30 Jun 2020 15:39

Tgt Ion	65	Resp	155203
Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
 Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

02BR-20200626

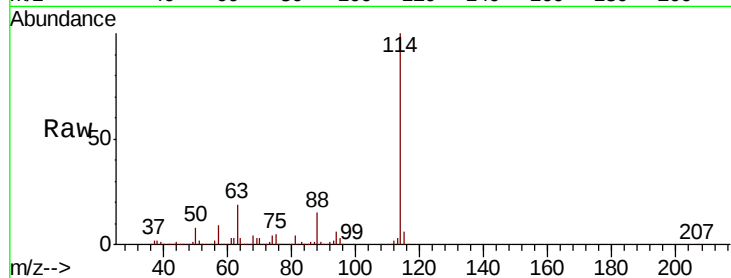
Tot Ion:114 Resp: 402358

Ion Ratio Lower Upper

114 100

63 18.6 0.0 41.4

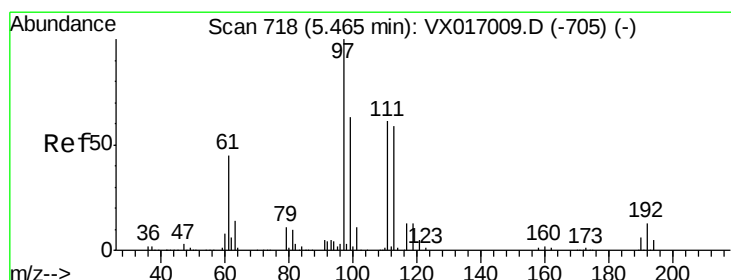
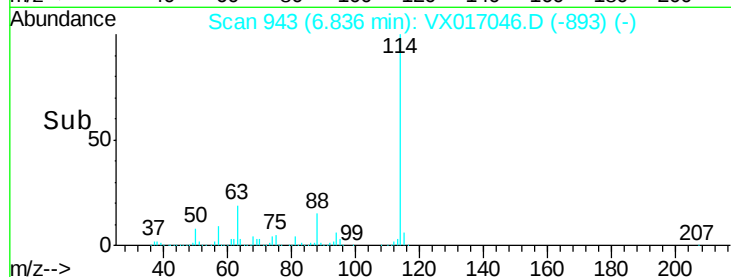
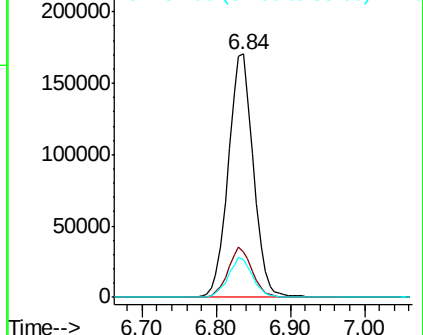
88 15.5 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 52.762 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

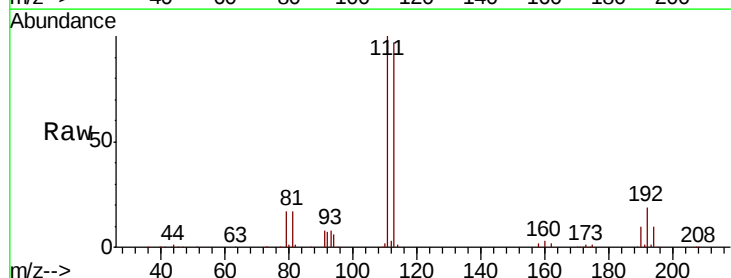
Tgt Ion:113 Resp: 134289

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

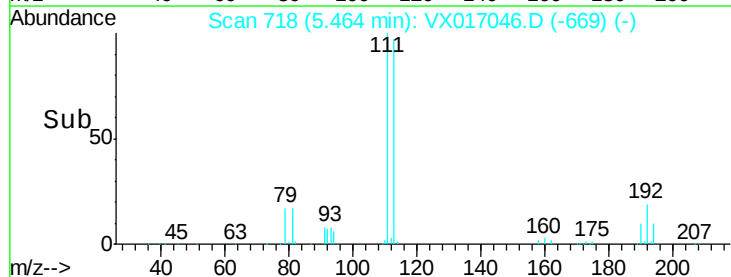
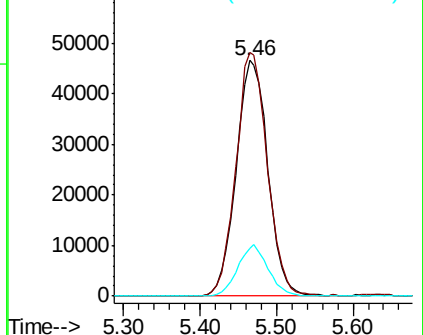
192 20.9 16.7 25.1

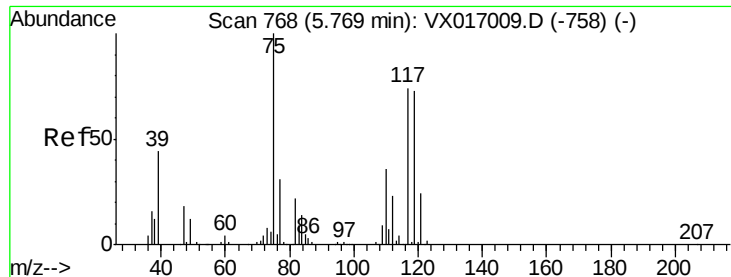


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.491 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

02BR-20200626

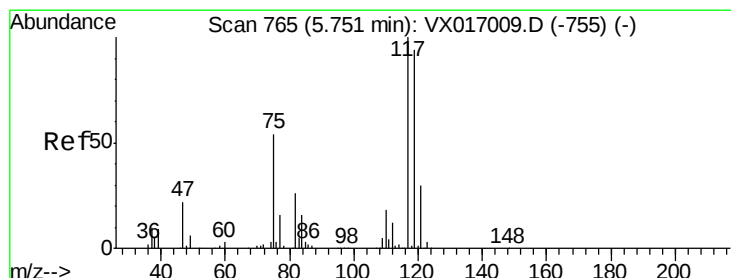
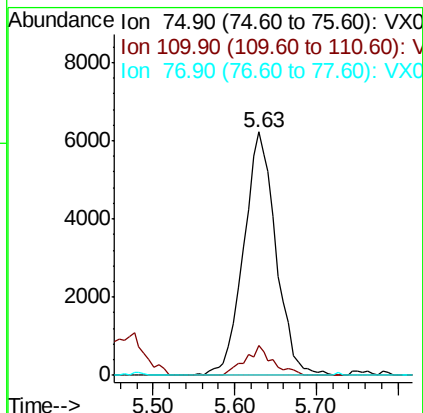
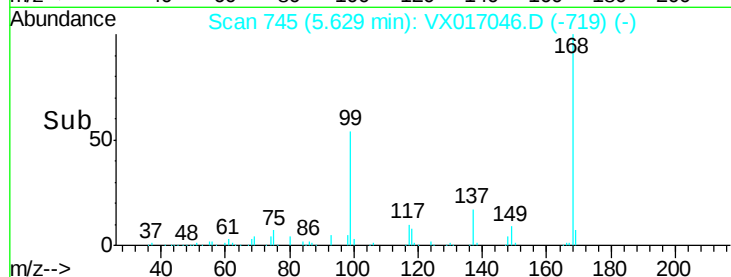
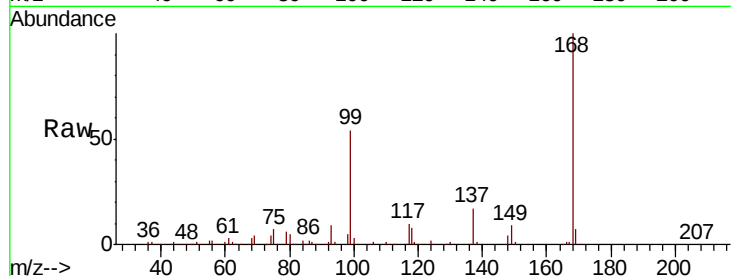
Tot Ion: 75 Resp: 17080

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.1#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.561 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

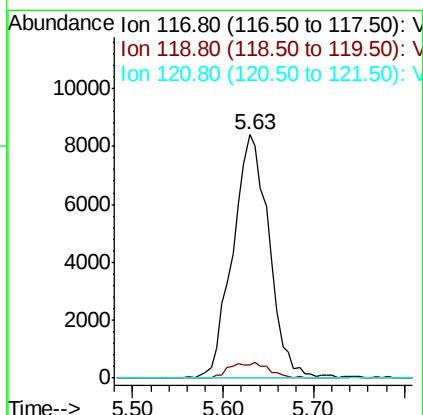
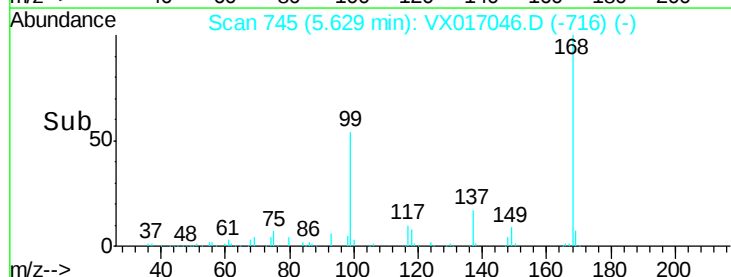
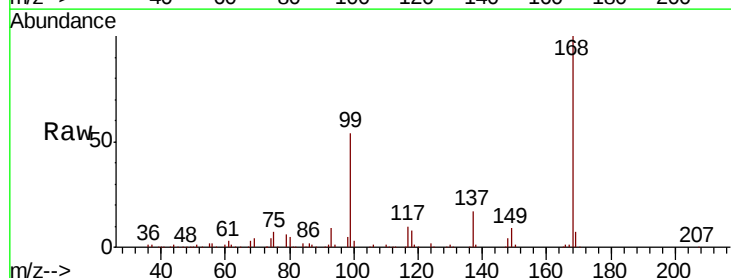
Tgt Ion: 117 Resp: 23291

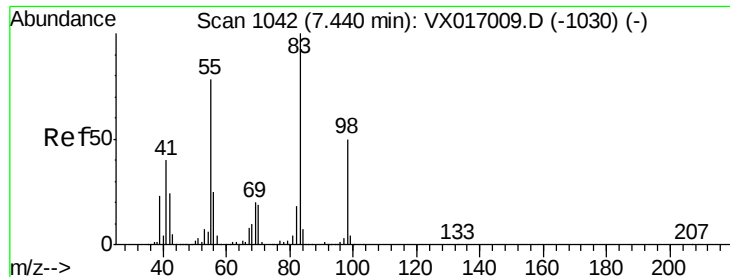
Ion Ratio Lower Upper

117 100

119 5.5 75.4 113.0#

121 0.0 23.8 35.6#

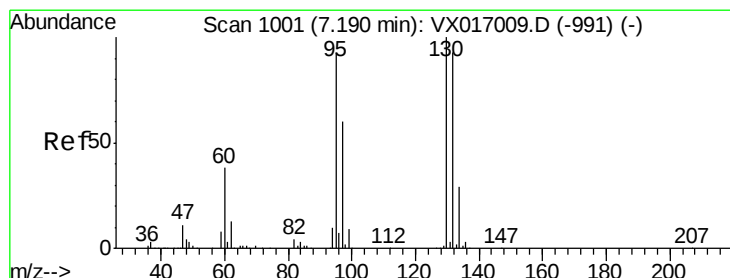
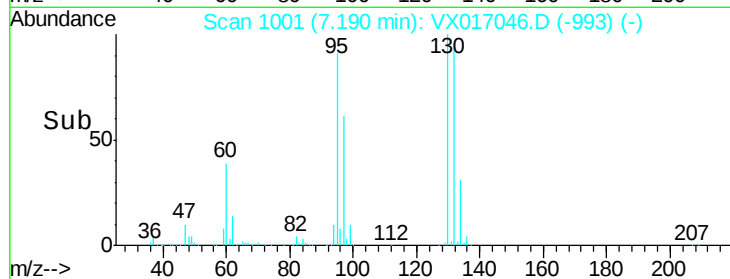
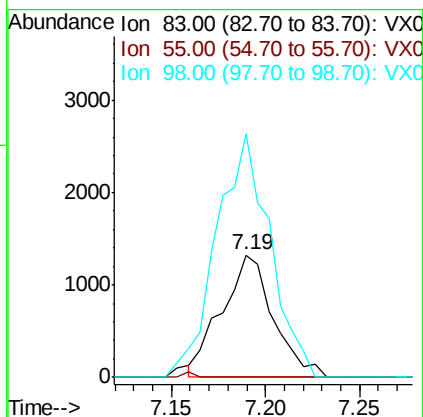
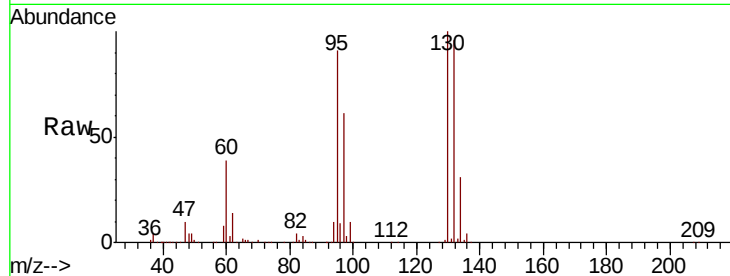




#39
Methvlcvclohexane
Concen: 0.592 ug/l
RT: 7.19 min Scan# 1001
Delta R.T. -0.25 min
Lab File: VX017046.D
Acq: 30 Jun 2020 15:39

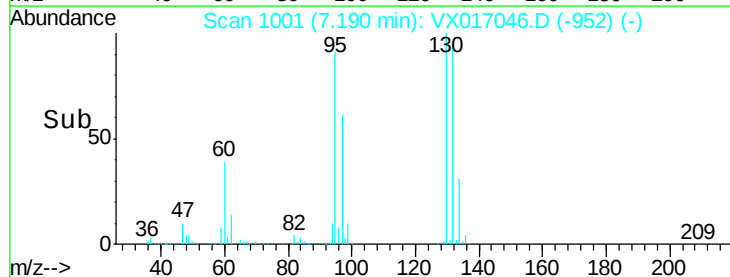
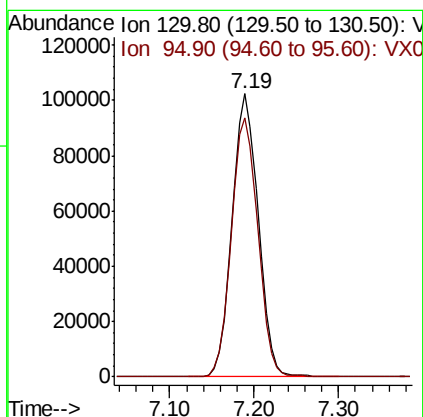
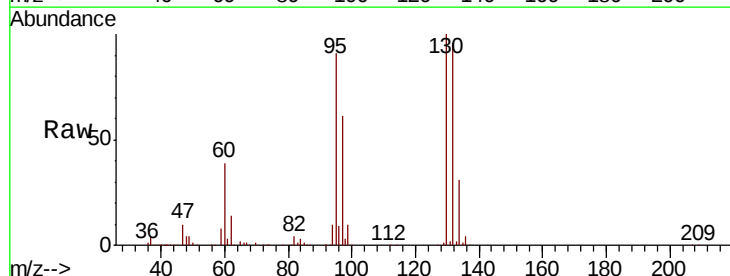
Instrument :
MSVOA_X
ClientSampleId :
02BR-20200626

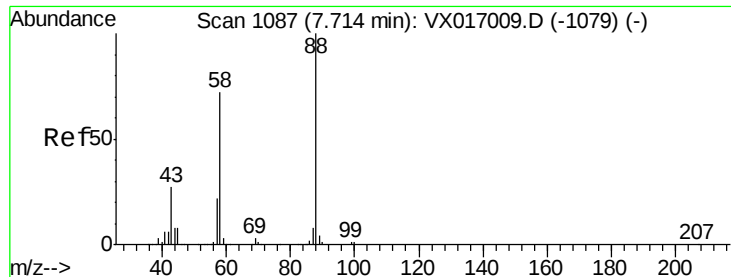
Tot Ion: 83 Resp: 2506
Ion Ratio Lower Upper
83 100
55 0.0 62.5 93.7#
98 198.5 40.1 60.1#



#44
Trichloroethene
Concen: 69.727 ug/l
RT: 7.19 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VX017046.D
Acq: 30 Jun 2020 15:39

Tgt Ion:130 Resp: 214608
Ion Ratio Lower Upper
130 100
95 91.5 0.0 185.0

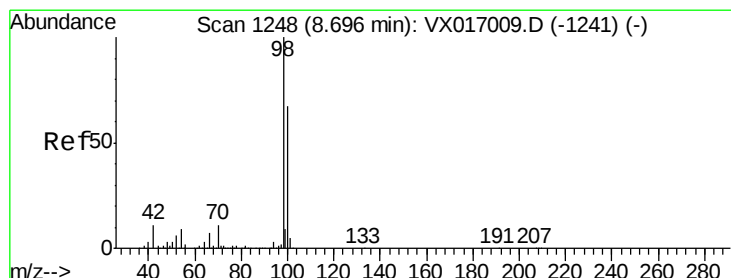
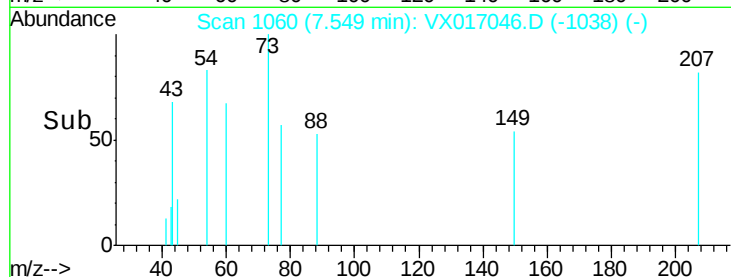
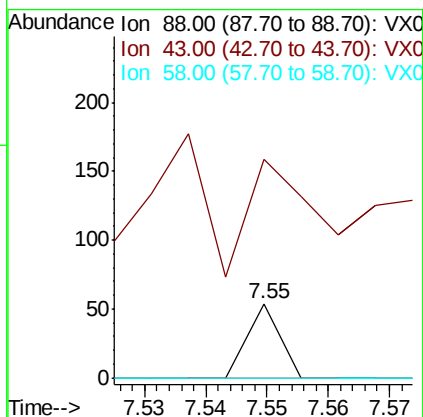
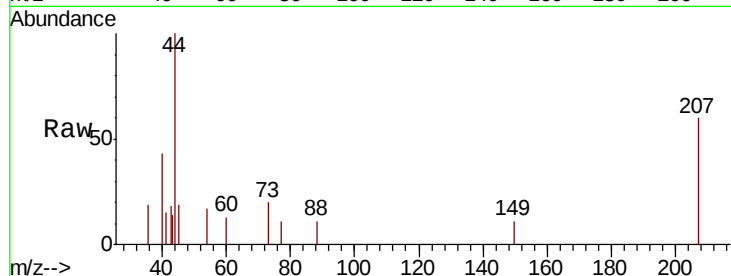




#49
1,4-Dioxane
Concen: 0.290 ug/l
RT: 7.55 min Scan# 1060
Delta R.T. -0.16 min
Lab File: VX017046.D
Acq: 30 Jun 2020 15:39

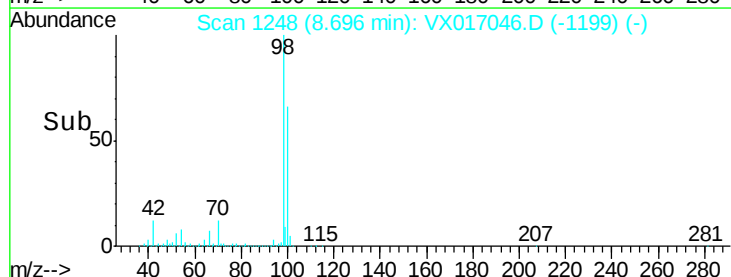
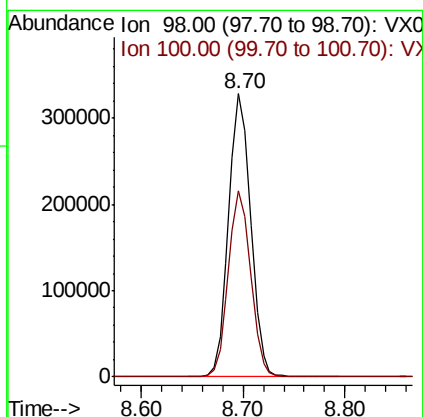
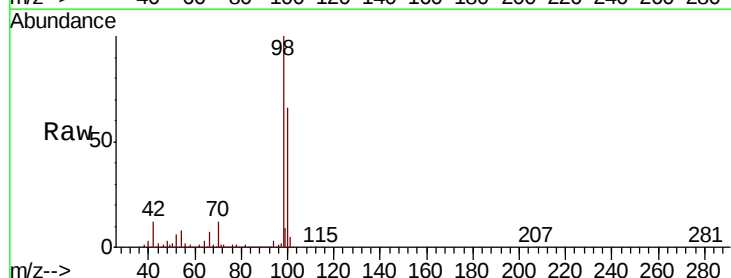
Instrument :
MSVOA_X
ClientSampleId :
02BR-20200626

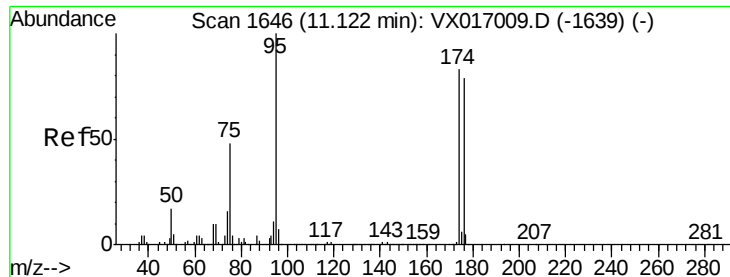
Tot Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 885.0 25.8 38.8#
58 0.0 54.8 82.2#



#50
Toluene-d8
Concen: 52.494 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017046.D
Acq: 30 Jun 2020 15:39

Tgt Ion: 98 Resp: 494054
Ion Ratio Lower Upper
98 100
100 66.2 53.8 80.6





#62

4-Bromofluorobenzene

Concen: 55.363 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

02BR-20200626

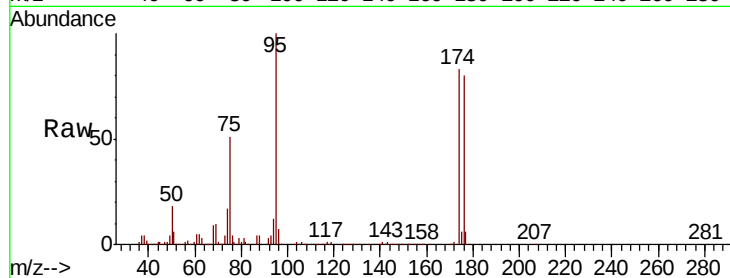
Tot Ion: 95 Resp: 203688

Ion Ratio Lower Upper

95 100

174 83.3 0.0 164.0

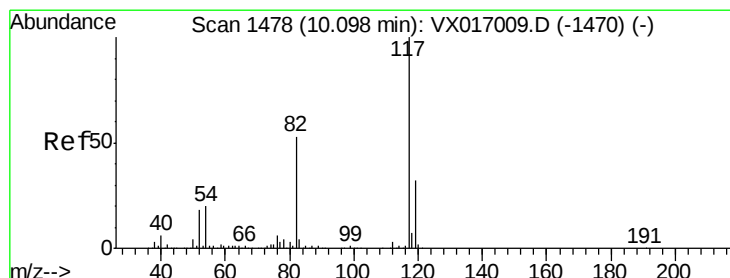
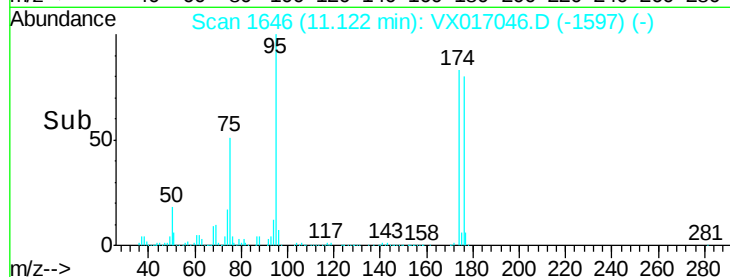
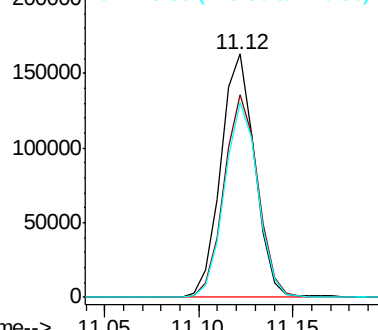
176 79.1 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

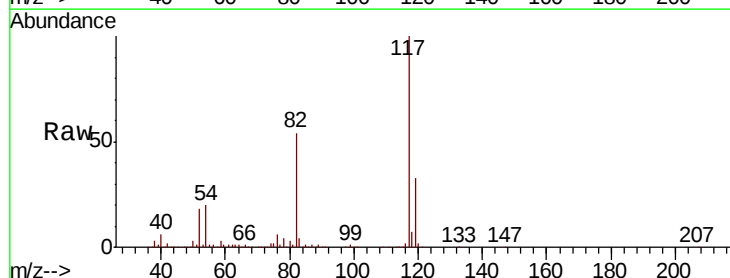
Tgt Ion: 117 Resp: 414665

Ion Ratio Lower Upper

117 100

82 53.8 42.6 63.8

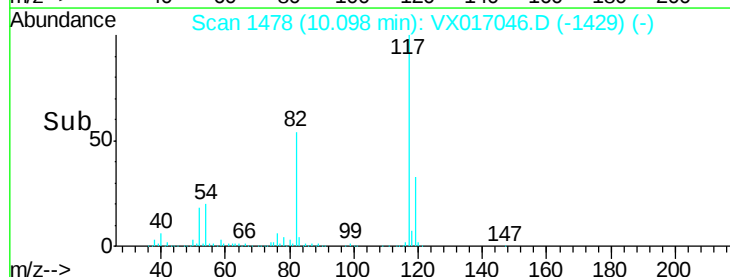
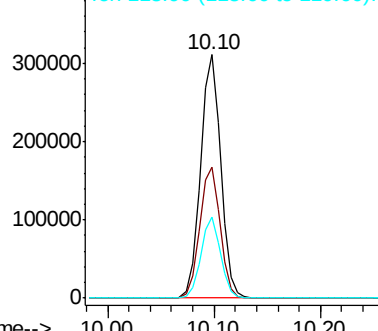
119 33.3 25.4 38.2

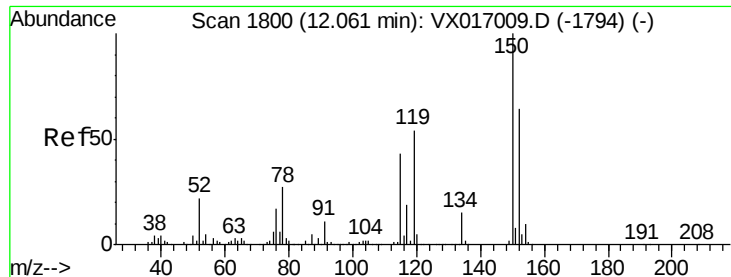


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

02BR-20200626

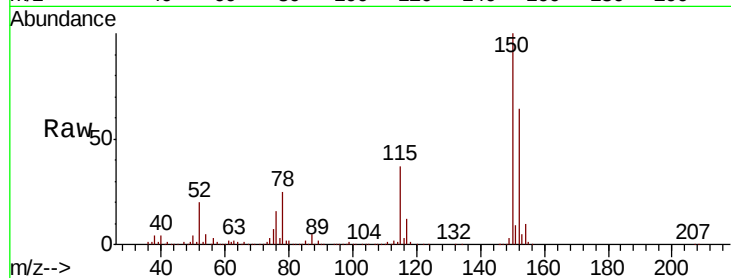
Tot Ion:152 Resp: 219106

Ion Ratio Lower Upper

152 100

115 57.8 40.9 122.7

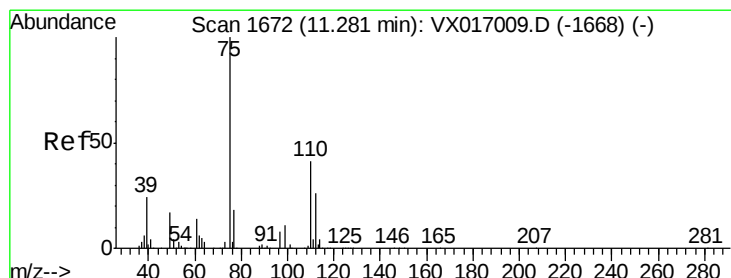
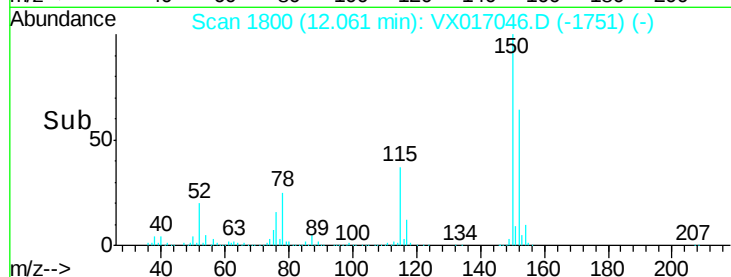
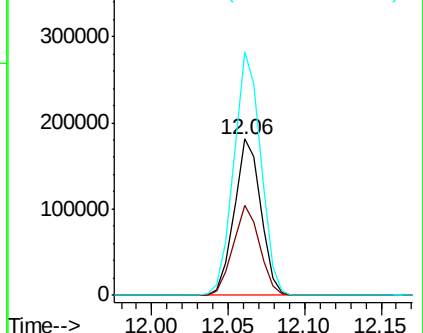
150 157.3 0.0 351.6



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: 23.502 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017046.D

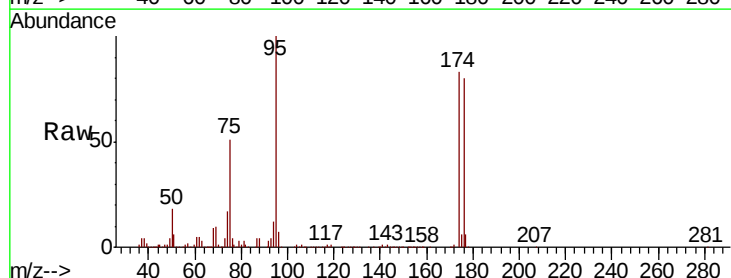
Acq: 30 Jun 2020 15:39

Tgt Ion: 75 Resp: 101259

Ion Ratio Lower Upper

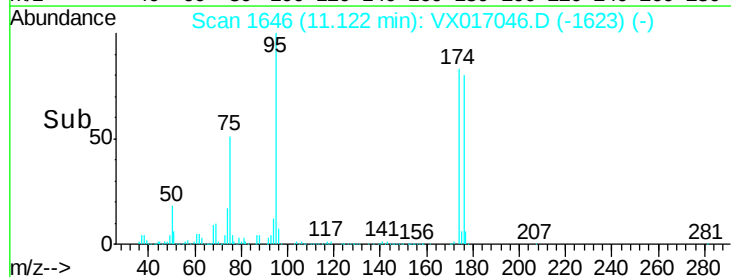
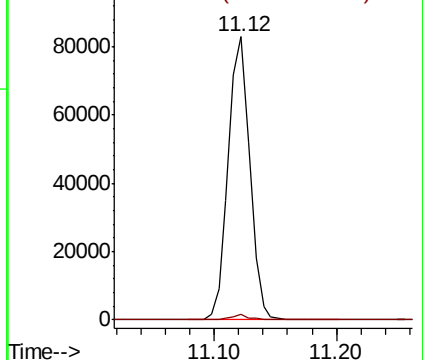
75 100

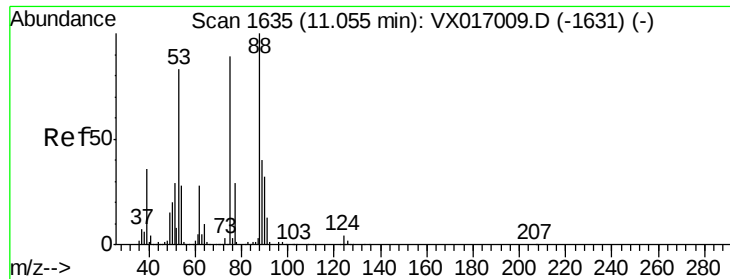
77 1.5 20.2 60.6#



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: 60.861 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

Instrument :

MSVOA_X

ClientSampleId :

02BR-20200626

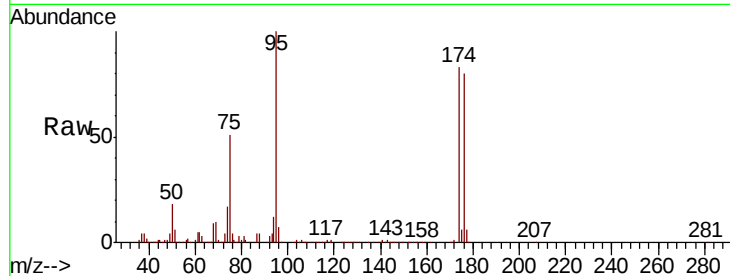
Tot Ion: 75 Resp: 101259

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

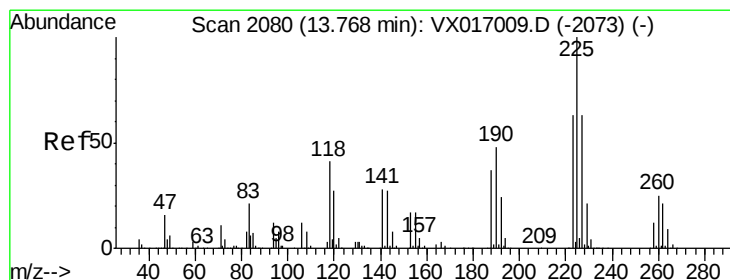
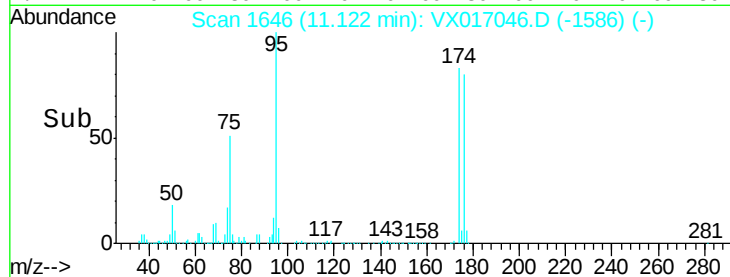
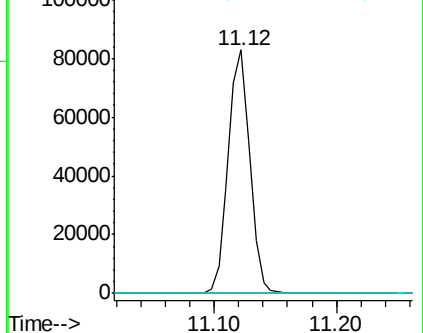
89 0.0 37.0 55.4#



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: 0.856 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX017046.D

Acq: 30 Jun 2020 15:39

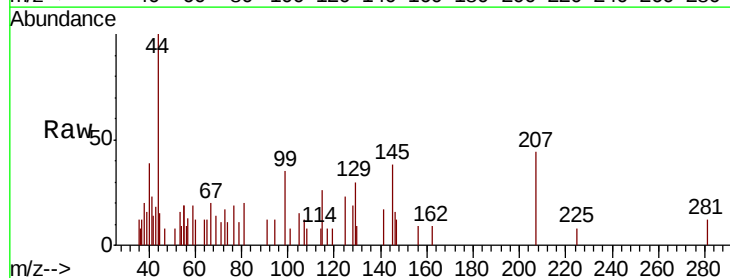
Tgt Ion: 225 Resp: 20

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 260.0 33.1 99.2#



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

