

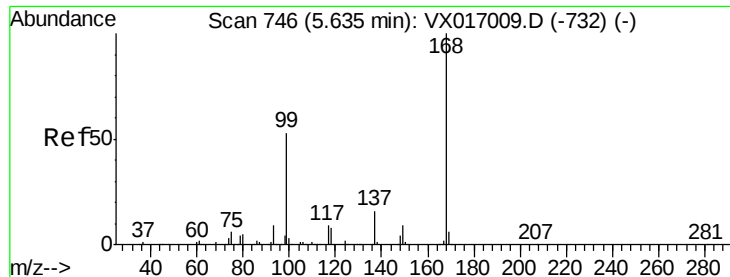
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017122.D
 Acq On : 02 Jul 2020 01:06
 Operator : JC/SP
 Sample : L3159-09 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 31S-20200629

Quant Time: Jul 02 01:44:04 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	215730	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	363846	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	374919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	196652	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	142700	53.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.32%	
35) Dibromofluoromethane	5.46	113	121216	52.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.34%	
50) Toluene-d8	8.70	98	446812	52.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.00%	
62) 4-Bromofluorobenzene	11.12	95	185540	55.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.54%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.98	74	20	0.382	ug/l	89
11) Tert butyl alcohol	3.00	59	164	0.323	ug/l #	73
13) Acrolein	2.28	56	206	0.679	ug/l #	1
16) Acetone	2.42	43	1165	1.171	ug/l	96
17) Carbon Disulfide	2.56	76	1064	0.201	ug/l #	75
20) Methylene Chloride	2.83	84	1270	Below Cal	#	75
25) 2-Butanone	4.65	43	372	0.224	ug/l #	49
31) Cyclohexane	5.63	56	4439	1.236	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	16115	4.686	ug/l #	51
38) Carbon Tetrachloride	5.64	117	20708	5.467	ug/l #	17
44) Trichloroethene	7.20	130	143	Below Cal		87
49) 1,4-Dioxane	7.60	88	21	0.337	ug/l #	24
76) 1,2,3-Trichloropropane	11.12	75	92776	23.991	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	92776	62.129	ug/l #	13
88) 1,4-Dichlorobenzene	12.09	146	565	Below Cal	#	1
94) Hexachlorobutadiene	13.76	225	69	0.888	ug/l #	30

(#) = 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: VX017122.D

Acq: 02 Jul 2020 01:06

Instrument :

MSVOA_X

ClientSampleId :

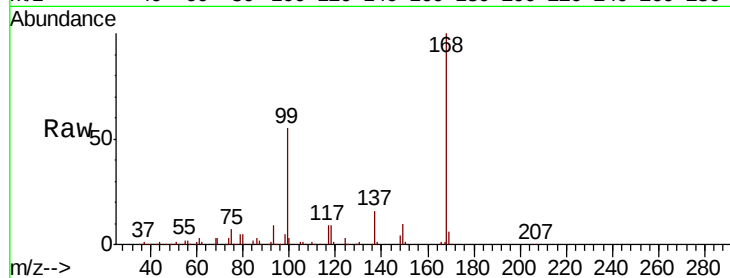
31S-20200629

Tot Ion:168 Resp: 215730

Ion Ratio Lower Upper

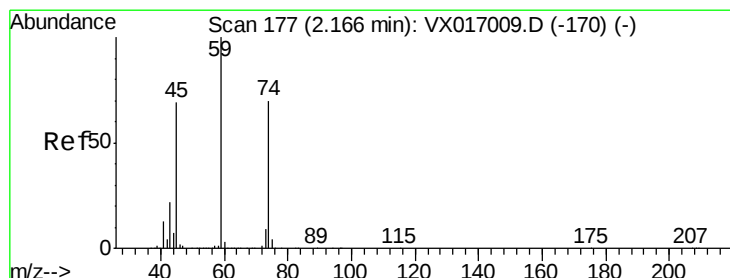
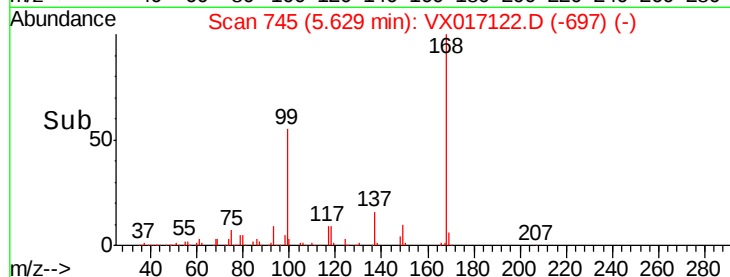
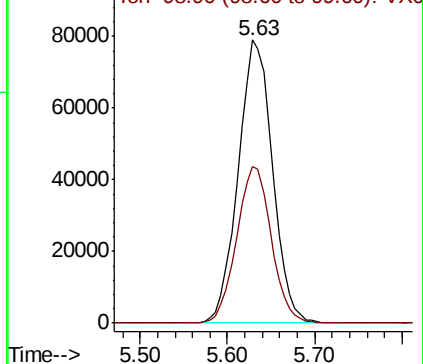
168 100

99 55.4 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 0.382 ug/l

RT: 1.98 min Scan# 146

Delta R.T. -0.19 min

Lab File: VX017122.D

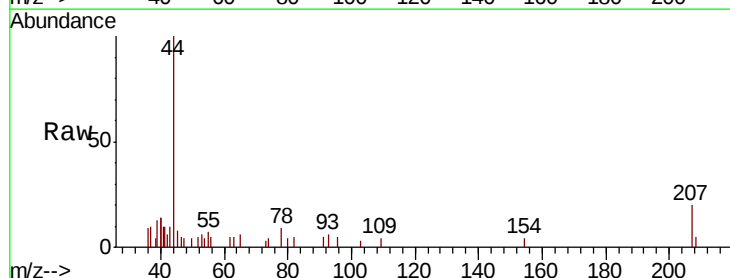
Acq: 02 Jul 2020 01:06

Tgt Ion: 74 Resp: 20

Ion Ratio Lower Upper

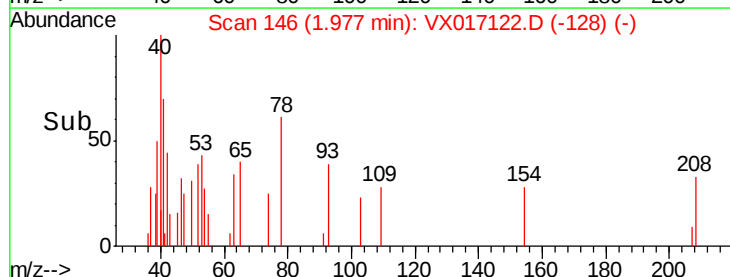
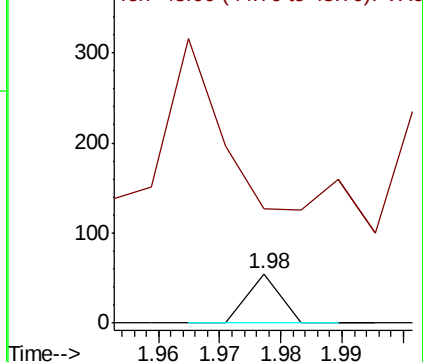
74 100

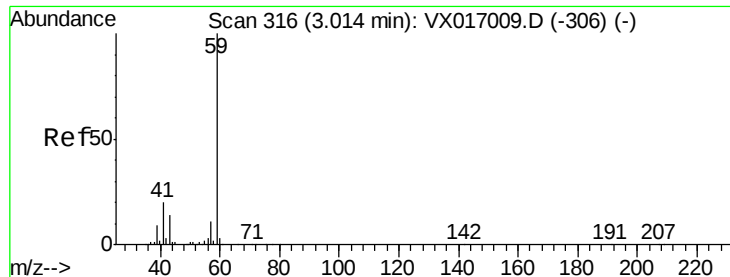
45 110.0 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



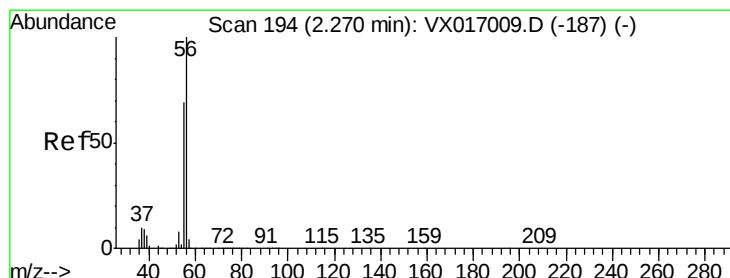
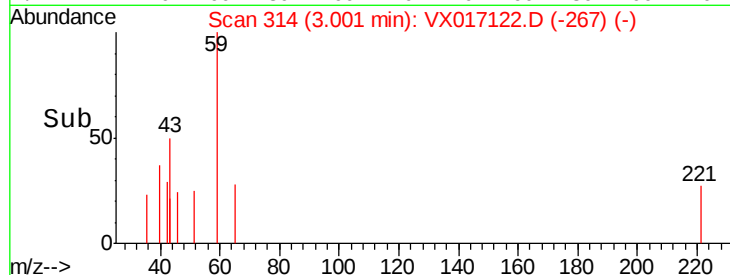
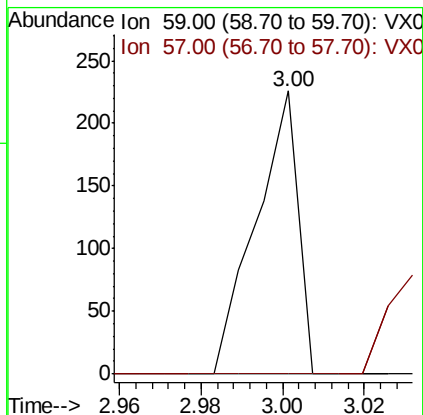
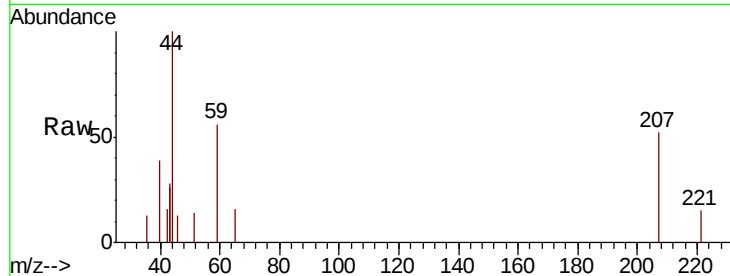


#11

Tert butvl alcohol
Concen: 0.323 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX017122.D
Acq: 02 Jul 2020 01:06

Instrument :
MSVOA_X
ClientSampleId :
31S-20200629

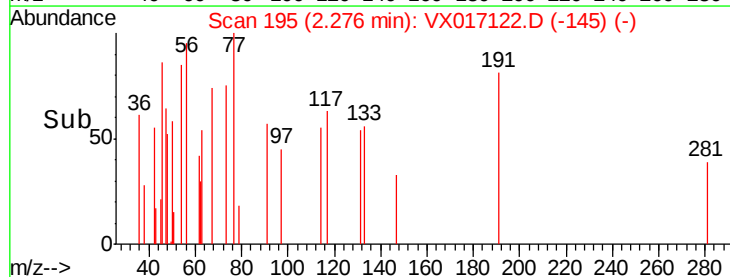
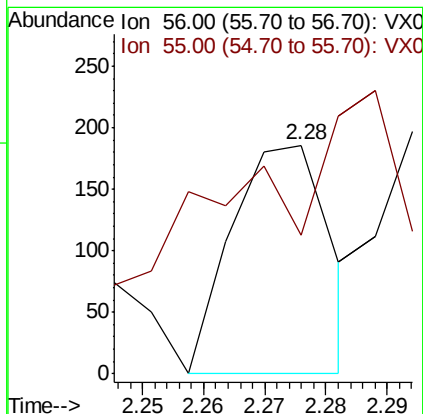
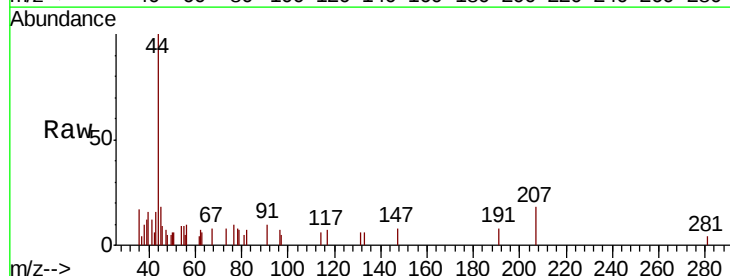
Tot Ion: 59 Resp: 164
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

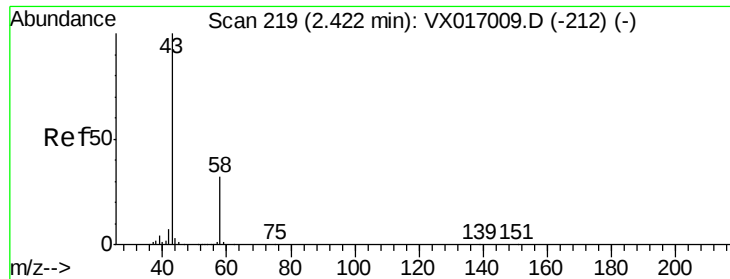


#13

Acrolein
Concen: 0.679 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX017122.D
Acq: 02 Jul 2020 01:06

Tgt Ion: 56 Resp: 206
Ion Ratio Lower Upper
56 100
55 264.1 55.7 83.5#





#16

Acetone

Concen: 1.171 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

Instrument :

MSVOA_X

ClientSampleId :

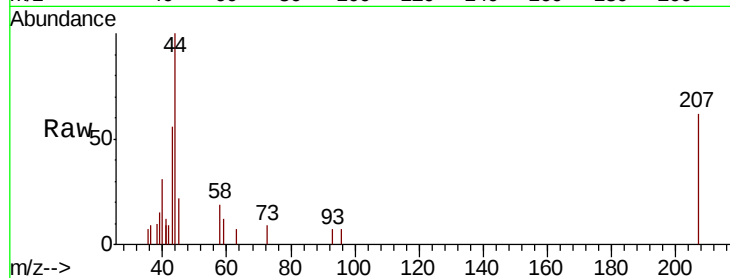
31S-20200629

Tot Ion: 43 Resp: 1165

Ion Ratio Lower Upper

43 100

58 34.5 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

400

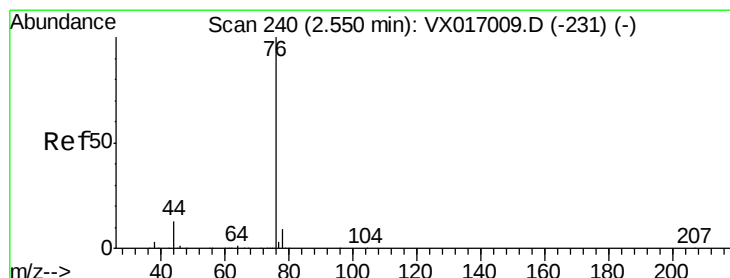
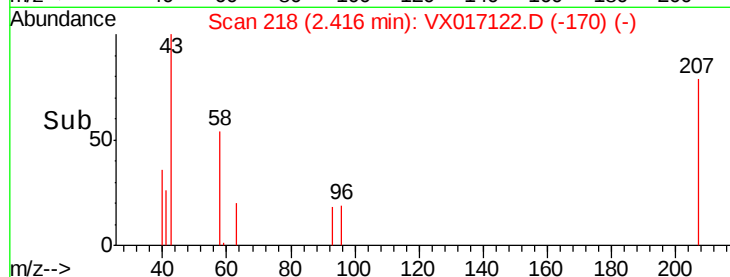
300

200

100

0

Time-->



#17

Carbon Disulfide

Concen: 0.201 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017122.D

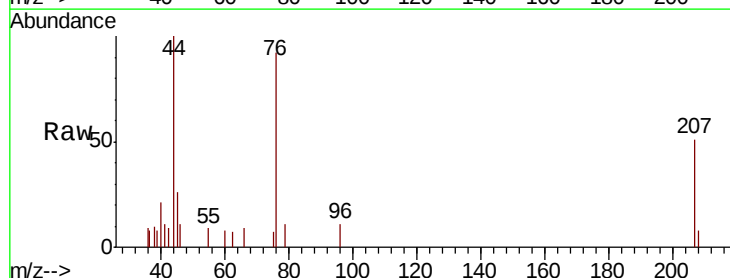
Acq: 02 Jul 2020 01:06

Tgt Ion: 76 Resp: 1064

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

800

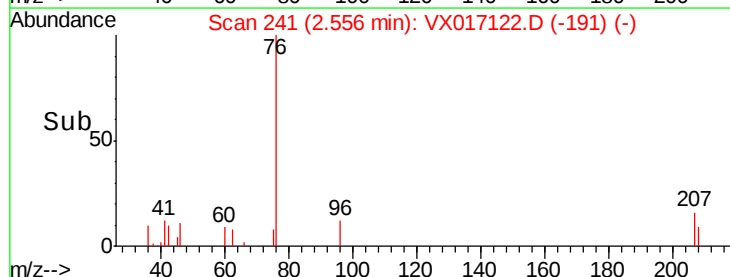
600

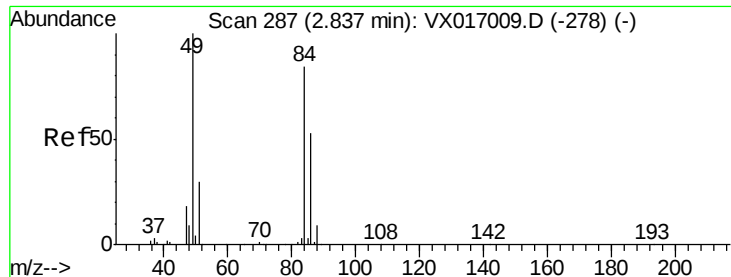
400

200

0

Time-->

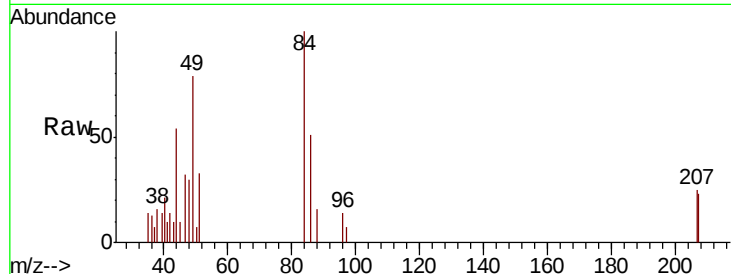




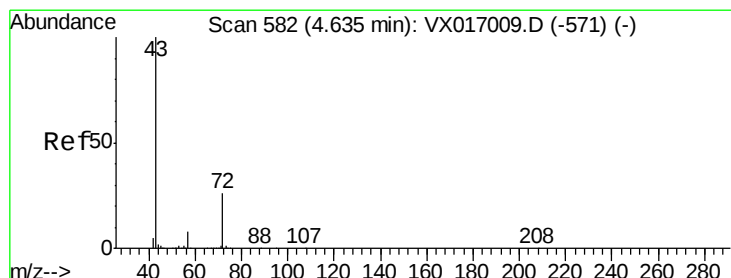
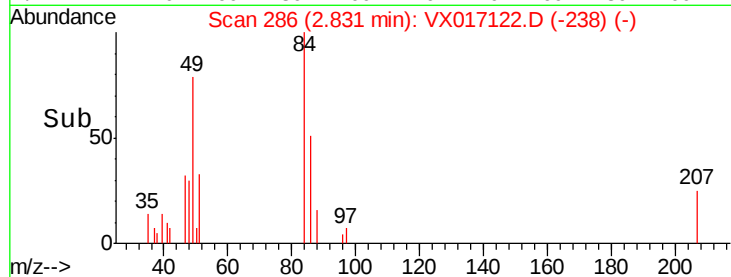
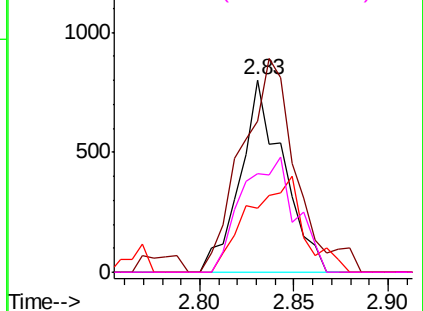
#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017122.D
Acq: 02 Jul 2020 01:06

Instrument :
MSVOA_X
ClientSampled :
31S-20200629

Tot Ion:	84	Resp:	1270
Ion	Ratio	Lower	Upper
84	100		
49	78.7	94.7	142.1#
51	33.5	28.6	42.8
86	51.1	50.5	75.7

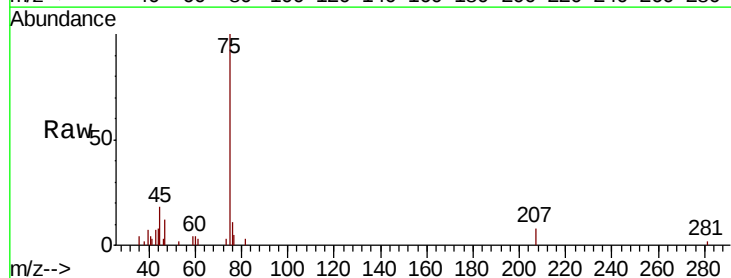


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

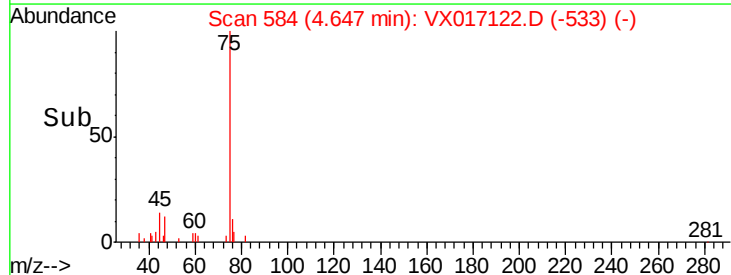
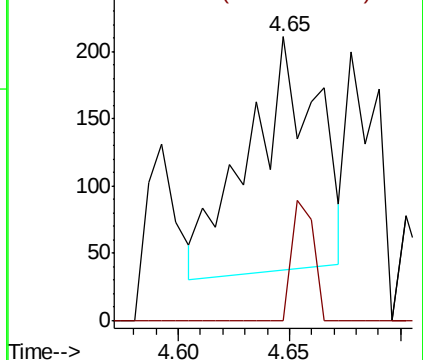


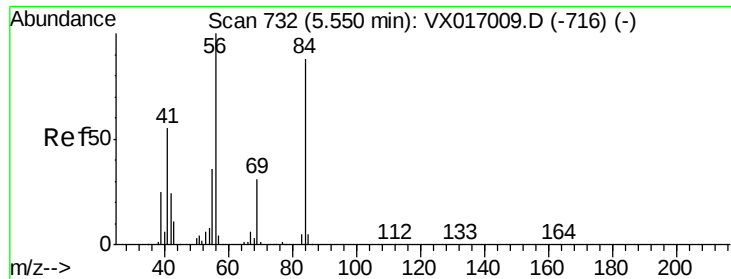
#25
2-Butanone
Concen: 0.224 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017122.D
Acq: 02 Jul 2020 01:06

Tgt Ion:	43	Resp:	372
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.8	31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

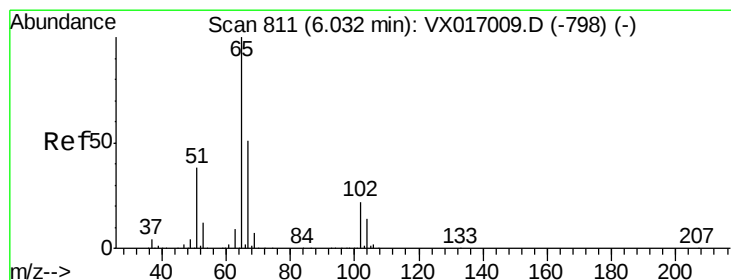
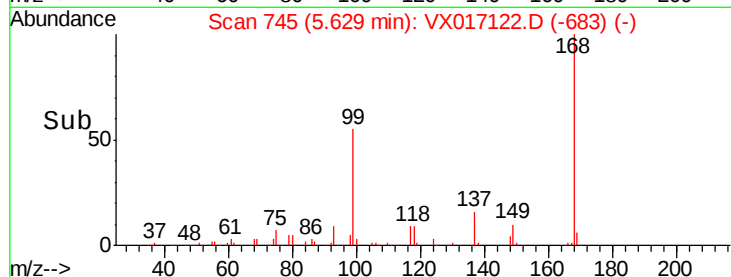
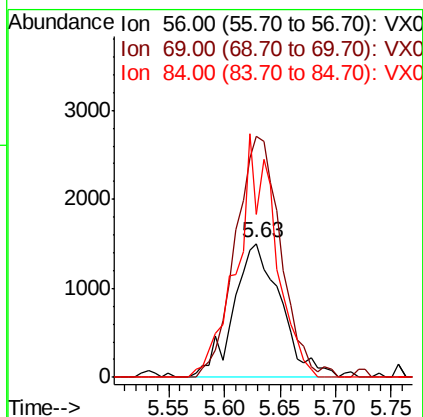
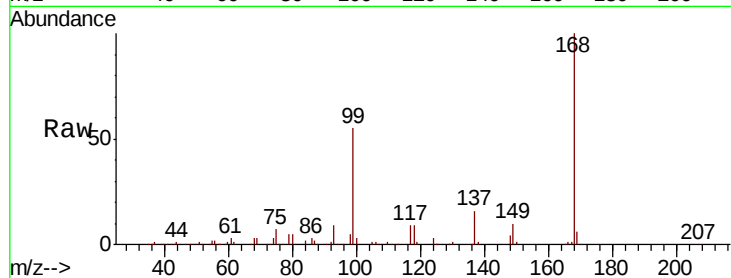




#31
Cyclohexane
Concen: 1.236 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017122.D
Acq: 02 Jul 2020 01:06

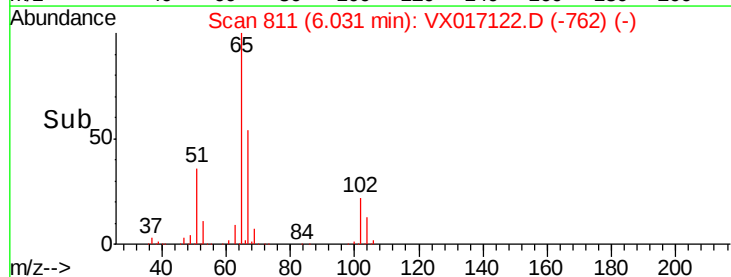
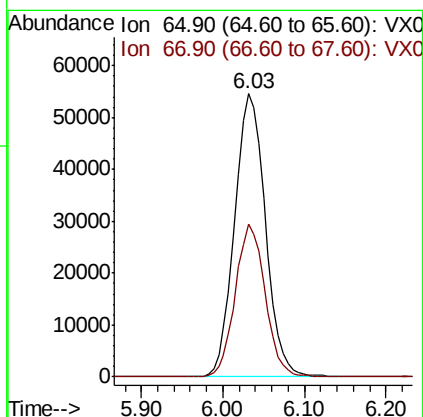
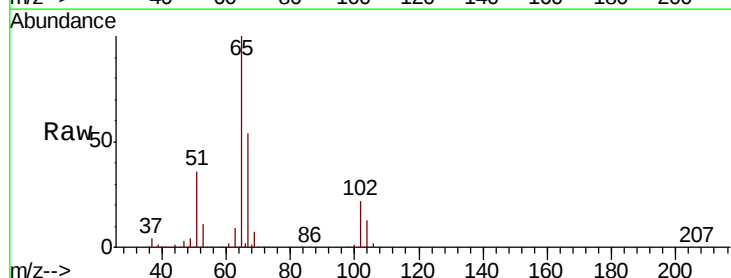
Instrument :
MSVOA_X
ClientSampleId :
31S-20200629

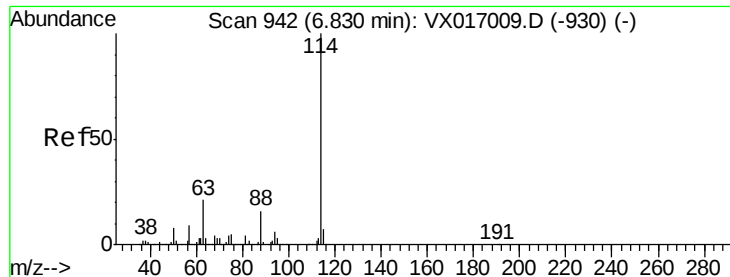
Tot Ion: 56 Resp: 4439
Ion Ratio Lower Upper
56 100
69 180.2 25.0 37.4#
84 122.0 69.1 103.7#



#33
1,2-Dichloroethane-d4
Concen: 53.656 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017122.D
Acq: 02 Jul 2020 01:06

Tgt Ion: 65 Resp: 142700
Ion Ratio Lower Upper
65 100
67 52.6 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

Instrument :

MSVOA_X

ClientSampleId :

31S-20200629

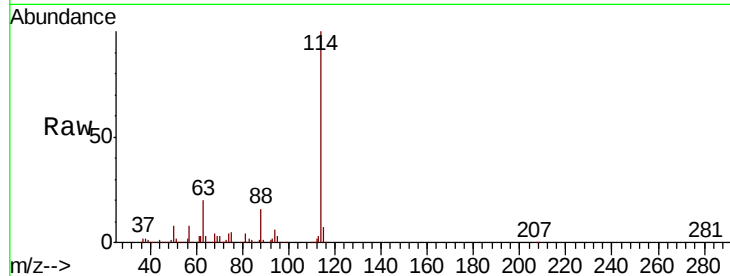
Tot Ion:114 Resp: 363846

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

88 15.9 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

200000

150000

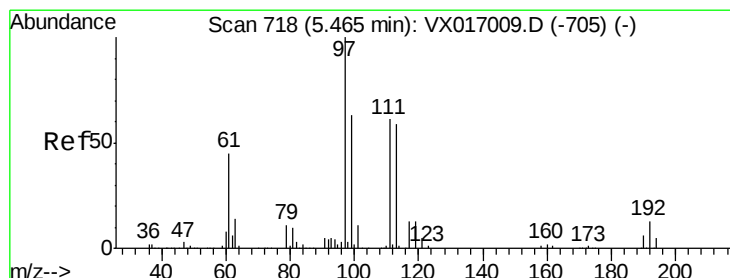
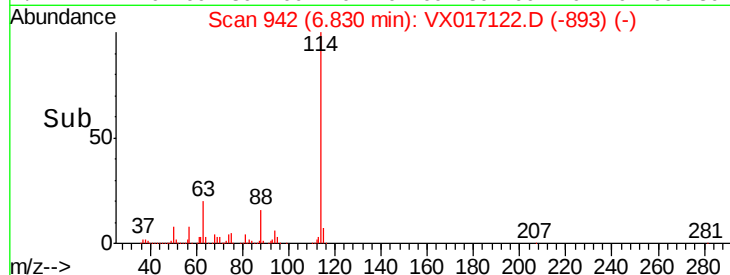
100000

50000

0

6.70 6.80 6.90

Time-->



#35

Dibromofluoromethane

Concen: 52.666 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

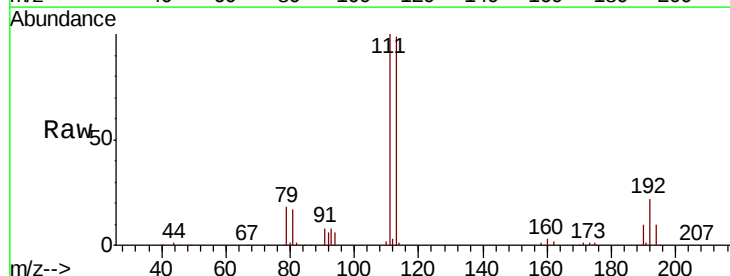
Tgt Ion:113 Resp: 121216

Ion Ratio Lower Upper

113 100

111 103.6 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

60000

50000

40000

30000

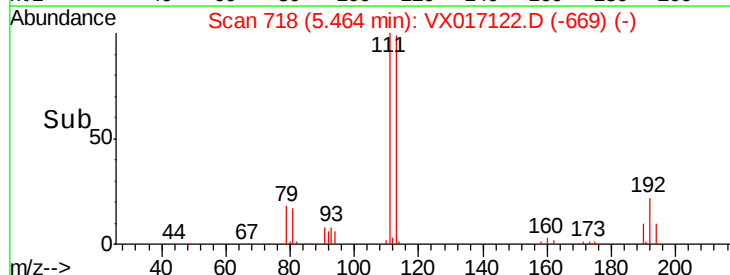
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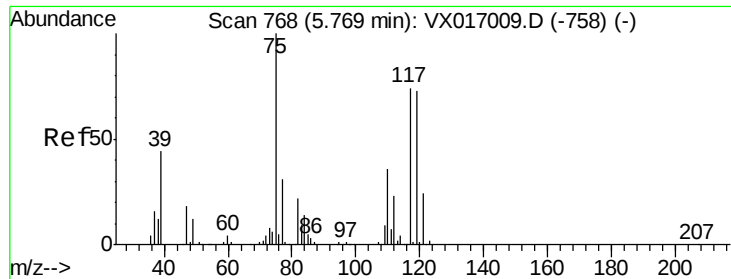
10000

0

5.40 5.50 5.60

Time-->

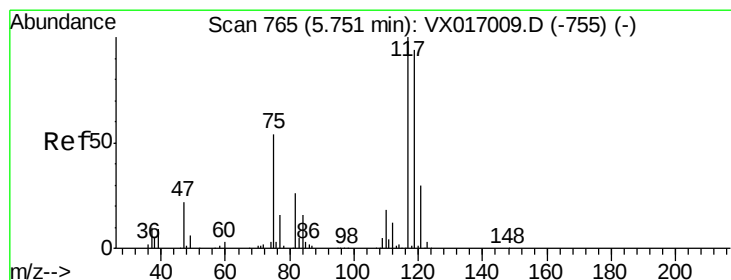
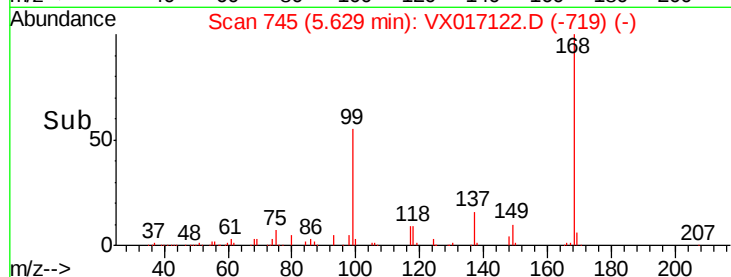
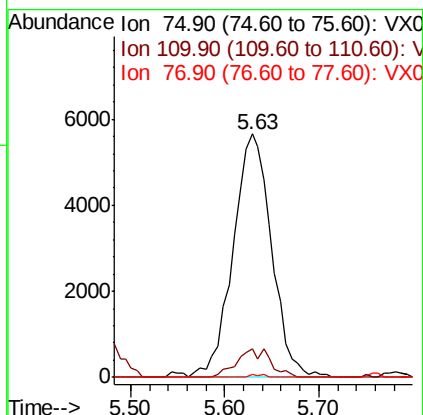
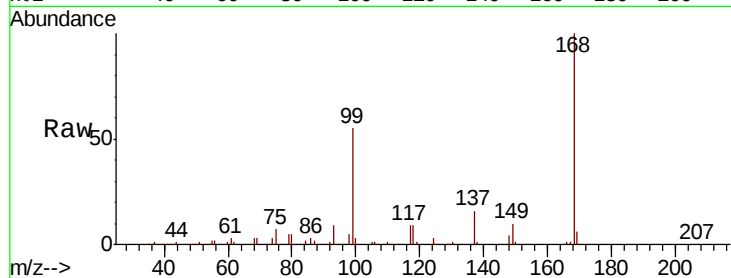




#36
 1,1-Dichloropropene
 Concen: 4.686 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017122.D
 Acq: 02 Jul 2020 01:06

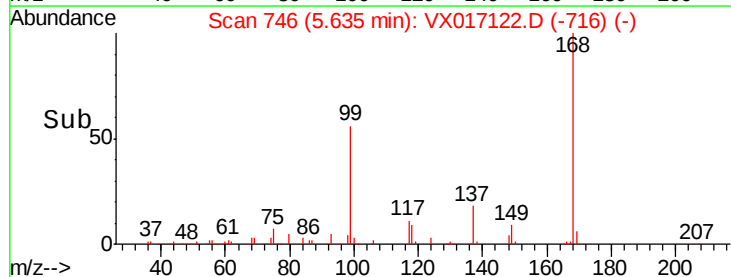
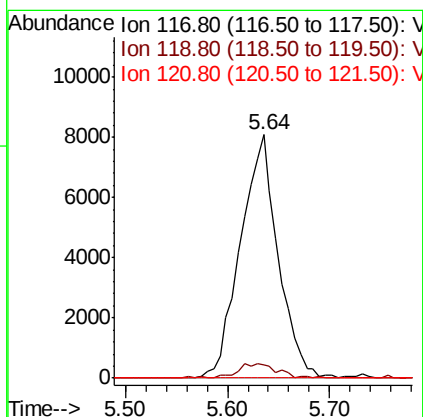
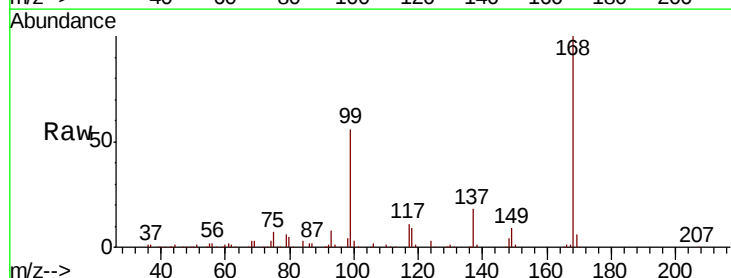
Instrument :
 MSVOA_X
 ClientSampleId :
 31S-20200629

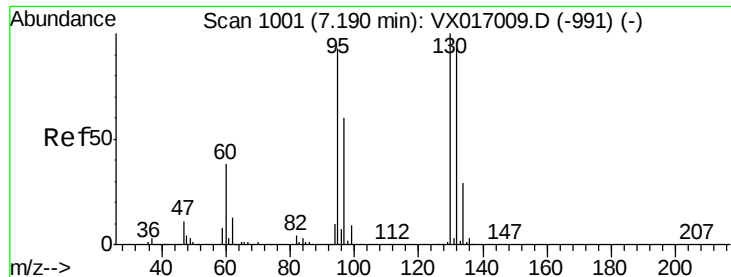
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.3	18.1	54.1#
77	0.4	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.467 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX017122.D
 Acq: 02 Jul 2020 01:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	75.4	113.0#
121	0.0	23.8	35.6#





#44

Trichloroethene

Concen: Below Cal

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

Instrument :

MSVOA_X

ClientSampleId :

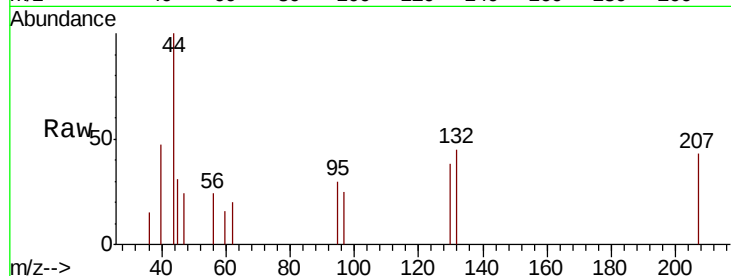
31S-20200629

Tot Ion:130 Resp: 143

Ion Ratio Lower Upper

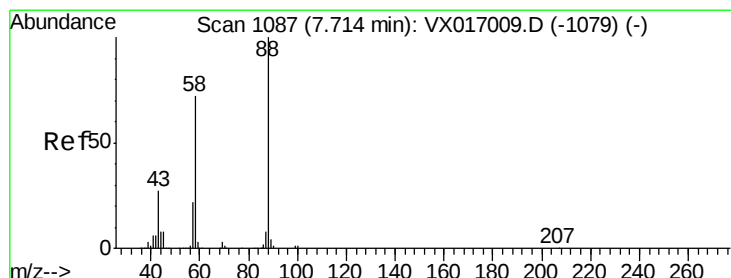
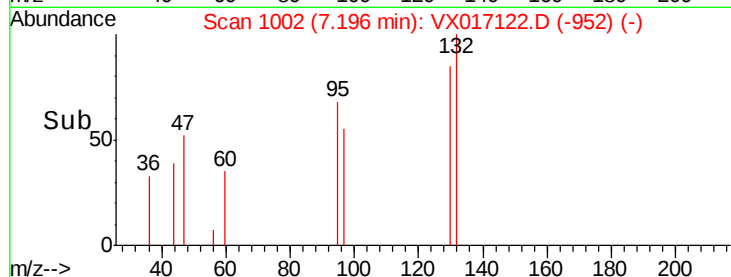
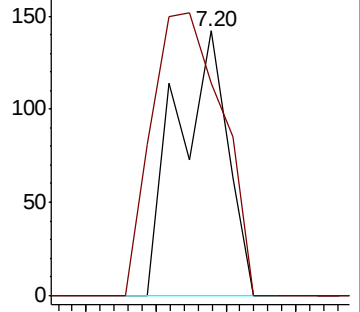
130 100

95 80.3 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.337 ug/l

RT: 7.60 min Scan# 1068

Delta R.T. -0.12 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

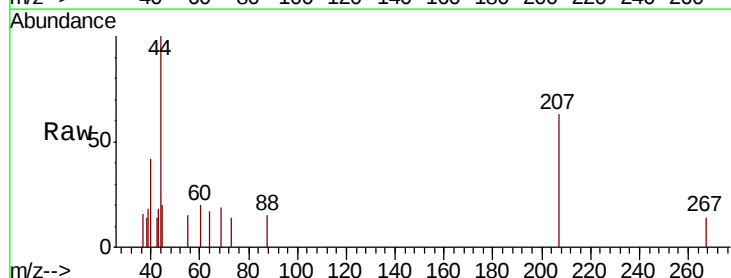
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.8#

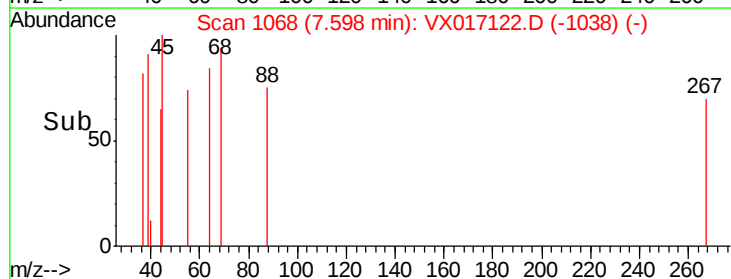
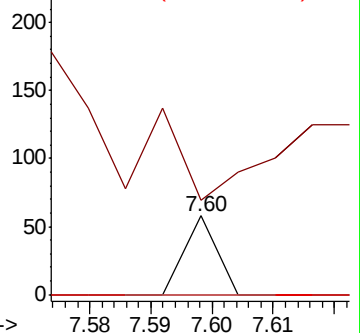
58 0.0 54.8 82.2#

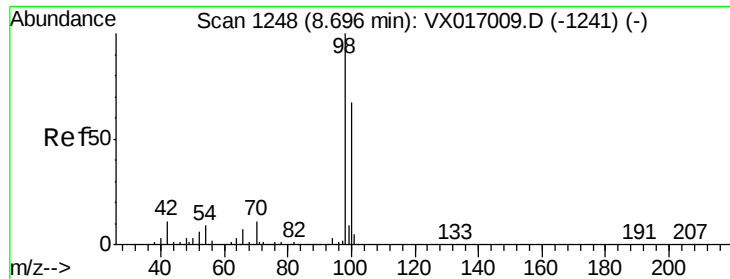


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.500 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

Instrument :

MSVOA_X

ClientSampleId :

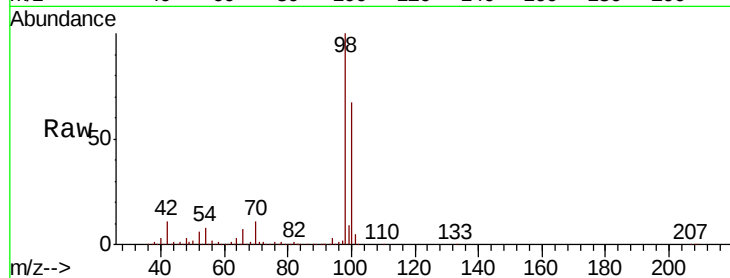
31S-20200629

Tot Ion: 98 Resp: 446812

Ion Ratio Lower Upper

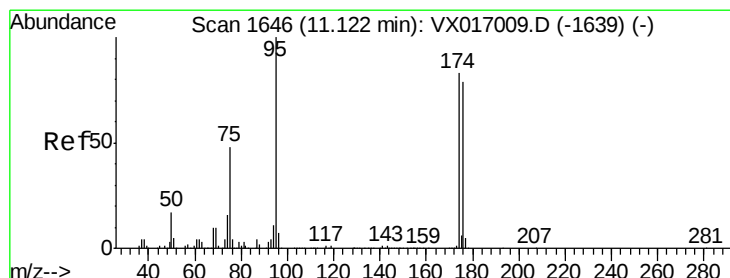
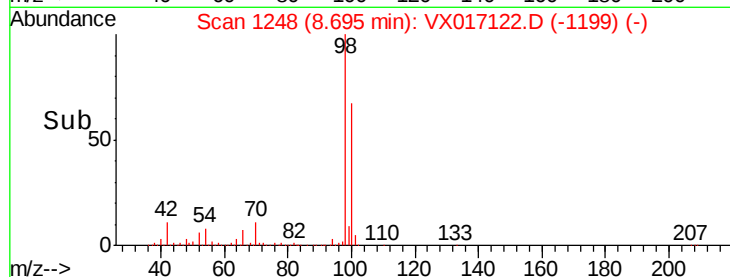
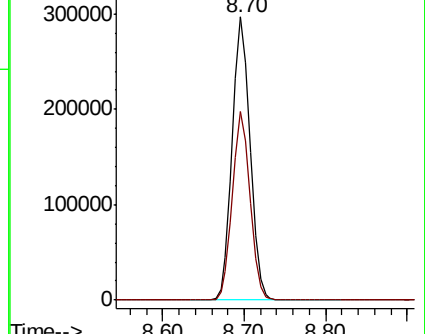
98 100

100 65.7 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: 55.769 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

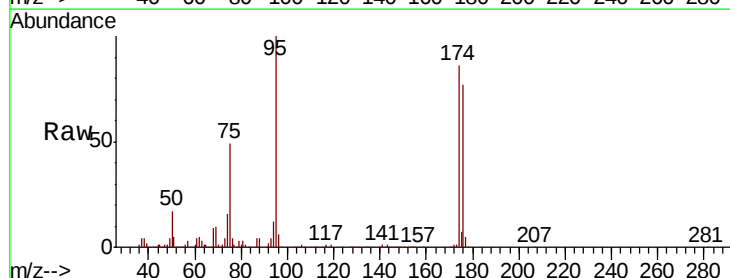
Tgt Ion: 95 Resp: 185540

Ion Ratio Lower Upper

95 100

174 82.9 0.0 164.0

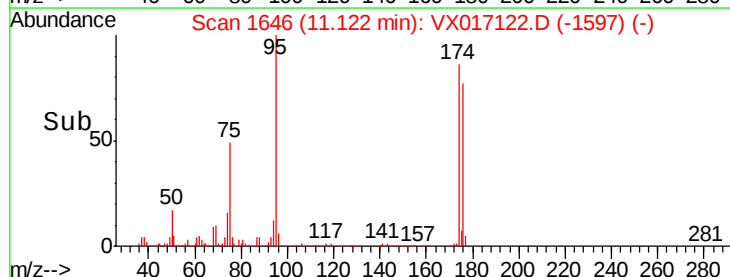
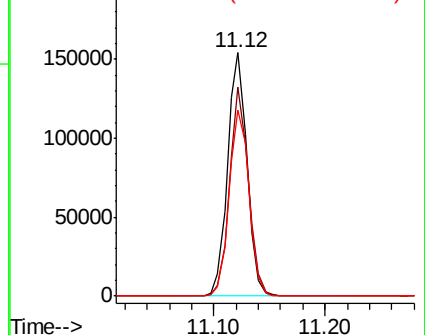
176 78.4 0.0 157.6

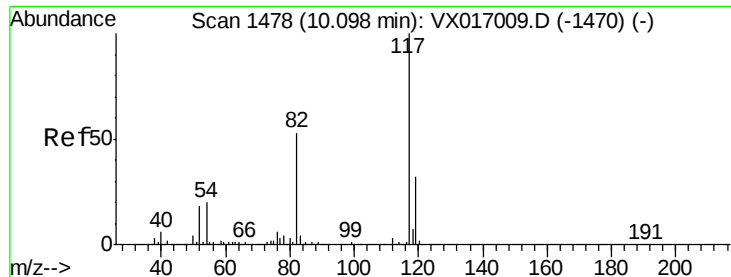


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

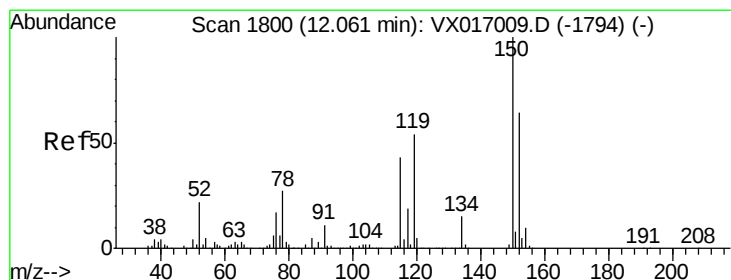
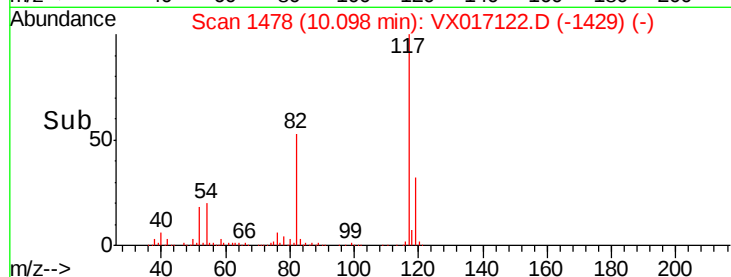
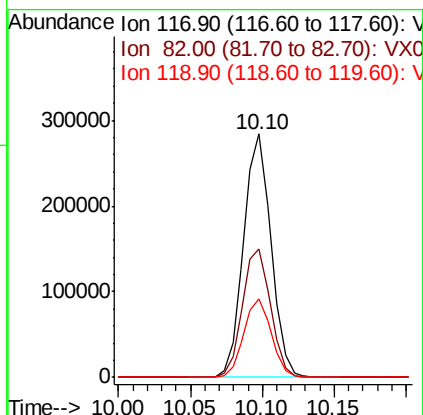
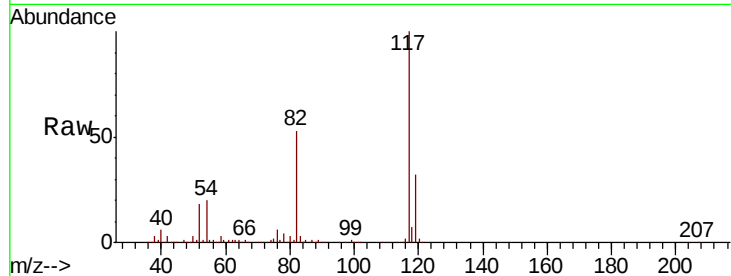




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017122.D
Acq: 02 Jul 2020 01:06

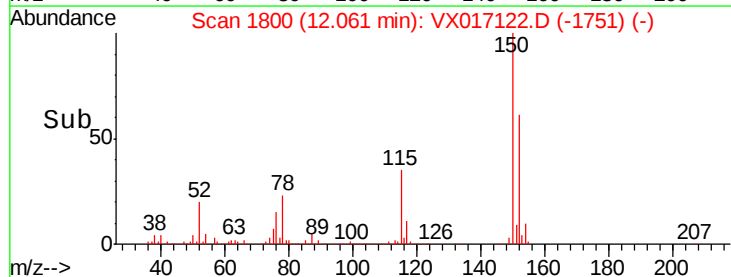
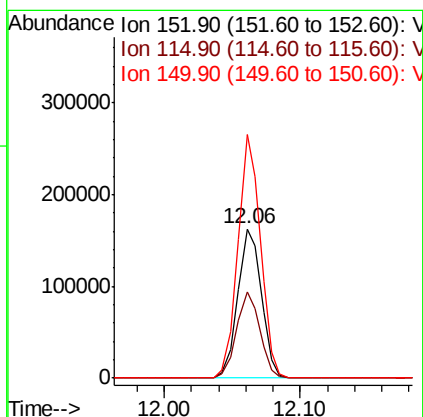
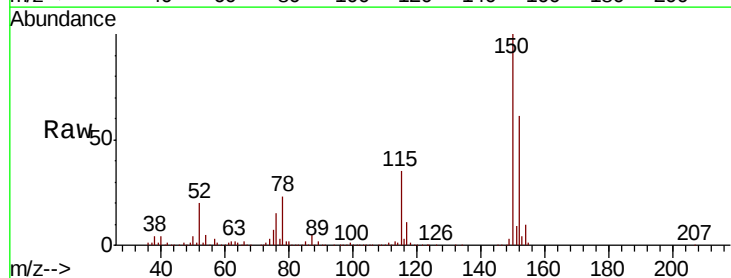
Instrument :
MSVOA_X
ClientSampleId :
31S-20200629

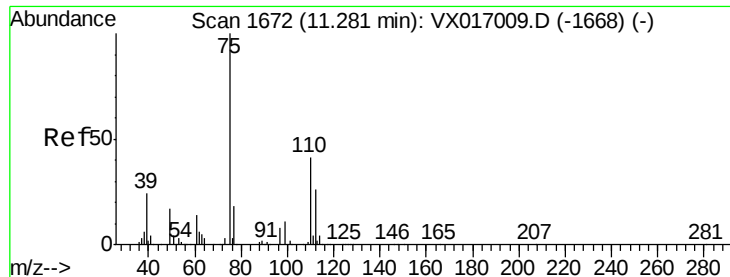
Tot Ion:117 Resp: 374919
Ion Ratio Lower Upper
117 100
82 52.7 42.6 63.8
119 32.5 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017122.D
Acq: 02 Jul 2020 01:06

Tgt Ion:152 Resp: 196652
Ion Ratio Lower Upper
152 100
115 56.5 40.9 122.7
150 155.8 0.0 351.6





#76

1,2,3-Trichloropropane

Concen: 23.991 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

Instrument :

MSVOA_X

ClientSampleId :

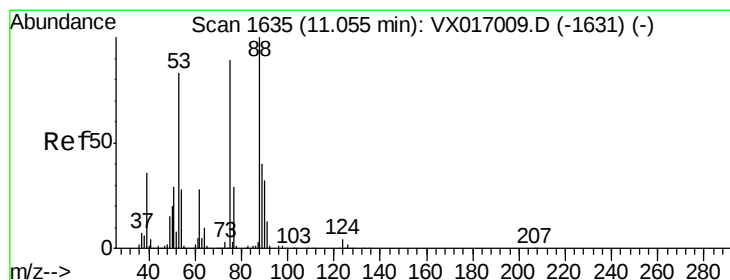
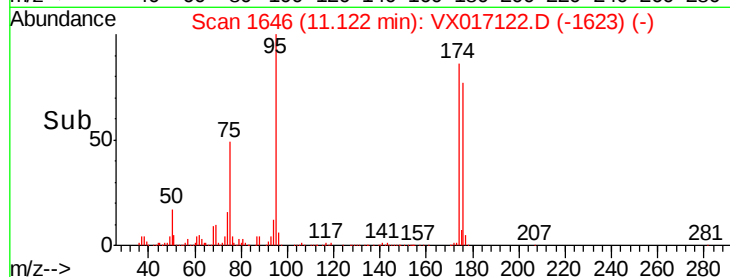
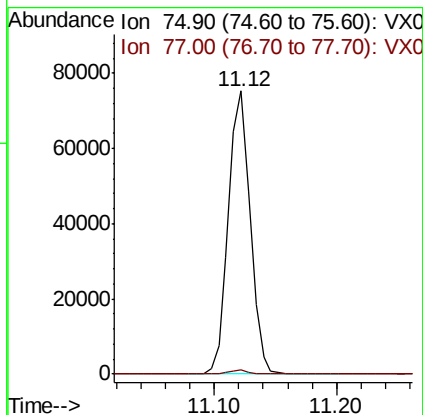
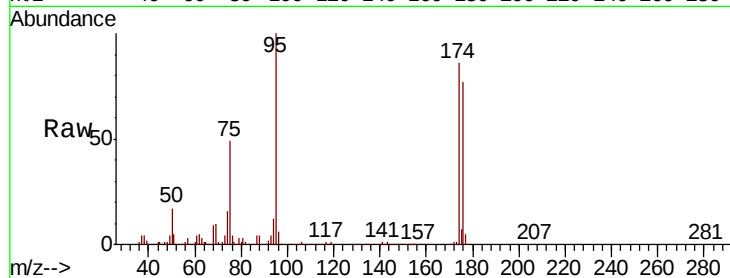
31S-20200629

Tot Ion: 75 Resp: 92776

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.129 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

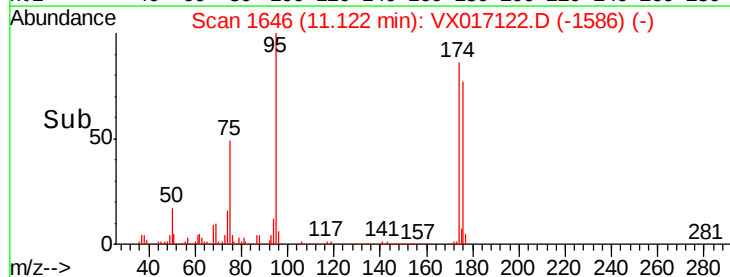
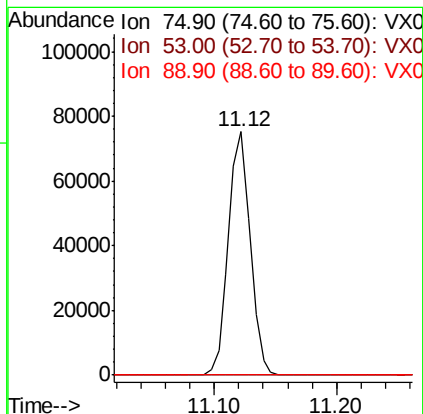
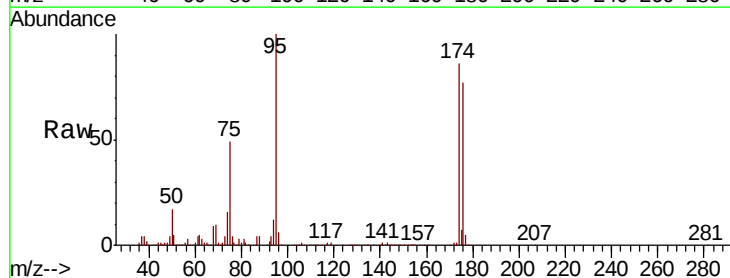
Tgt Ion: 75 Resp: 92776

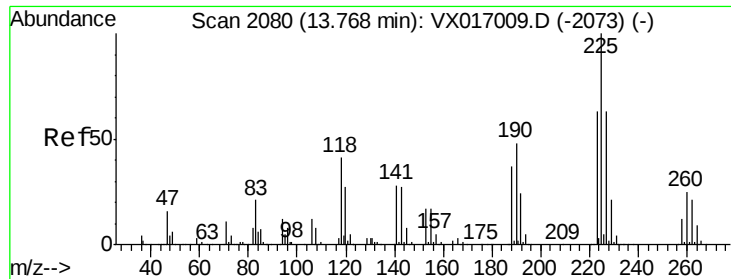
Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#





#94

Hexachlorobutadiene

Concen: 0.888 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017122.D

Acq: 02 Jul 2020 01:06

Instrument :

MSVOA_X

ClientSampleId :

31S-20200629

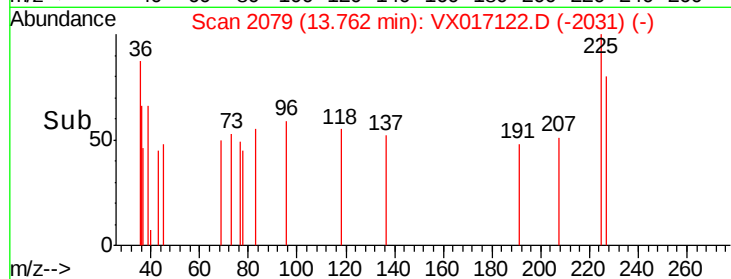
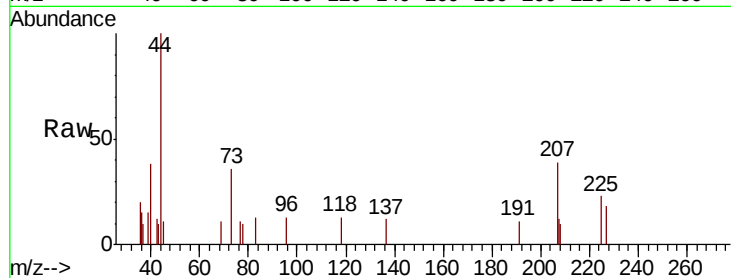
Tot Ion: 225 Resp: 69

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 111.6 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

