

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070220\
 Data File : VX017155.D
 Acq On : 02 Jul 2020 17:48
 Operator : JC/SP
 Sample : L3192-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 03 00:53:46 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	206015	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	344462	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	358619	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	190561	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	136471	53.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.46%	
35) Dibromofluoromethane	5.46	113	116198	53.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.66%	
50) Toluene-d8	8.70	98	422674	52.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.92%	
62) 4-Bromofluorobenzene	11.12	95	174382	55.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.72%	

Target Compounds

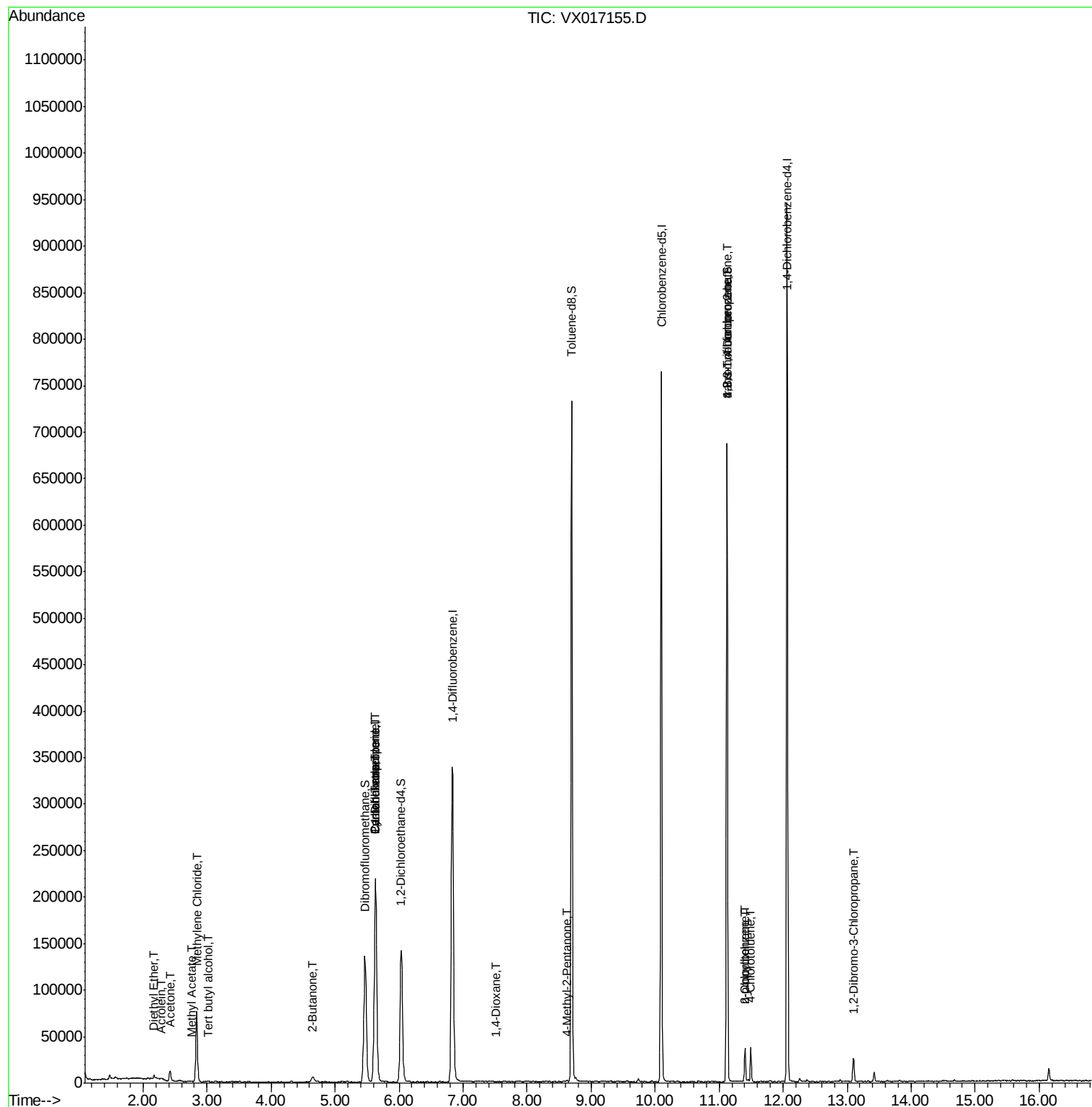
					Qvalue	
8) Diethyl Ether	2.17	74	1368	1.585	ug/l	97
11) Tert butyl alcohol	3.01	59	281	0.580	ug/l #	73
13) Acrolein	2.27	56	244	0.842	ug/l #	38
16) Acetone	2.42	43	11746	12.363	ug/l	91
18) Methyl Acetate	2.75	43	580	0.234	ug/l #	58
20) Methylene Chloride	2.84	84	33541	14.842	ug/l	94
25) 2-Butanone	4.64	43	2269	1.433	ug/l	99
31) Cyclohexane	5.64	56	3932	1.147	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	15048	4.622	ug/l #	50
38) Carbon Tetrachloride	5.64	117	19985	5.573	ug/l #	17
44) Trichloroethene	7.20	130	216	Below Cal		43
49) 1,4-Dioxane	7.51	88	54	0.914	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	1448	0.443	ug/l #	85
76) 1,2,3-Trichloropropane	11.12	75	88229	23.545	ug/l #	37
78) n-propylbenzene	11.40	91	15798	1.119	ug/l #	52
79) 2-Chlorotoluene	11.40	91	15798	1.849	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	88229	60.973	ug/l #	13
82) 4-Chlorotoluene	11.49	91	16482	1.614	ug/l	94
88) 1,4-Dichlorobenzene	12.09	146	560	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	13.09	75	619	0.661	ug/l #	1

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

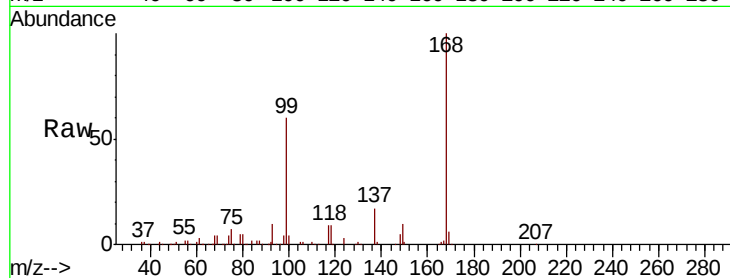
ClientSampleId :

Tot Ion:168 Resp: 206015

Ion Ratio Lower Upper

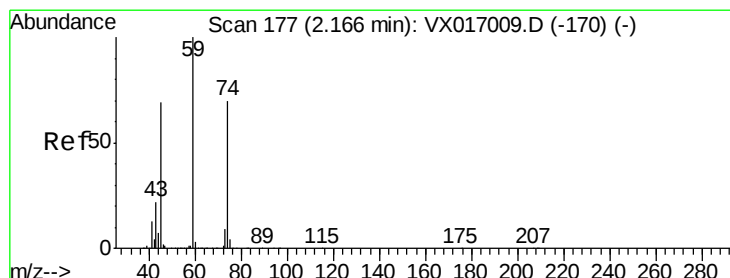
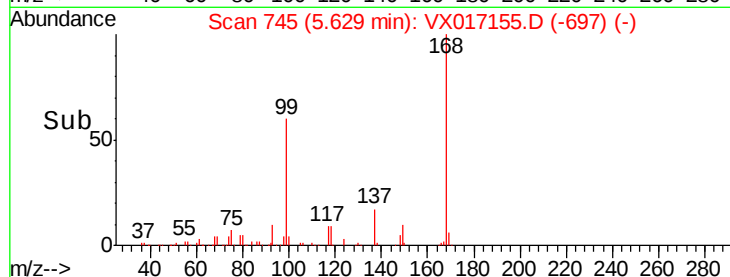
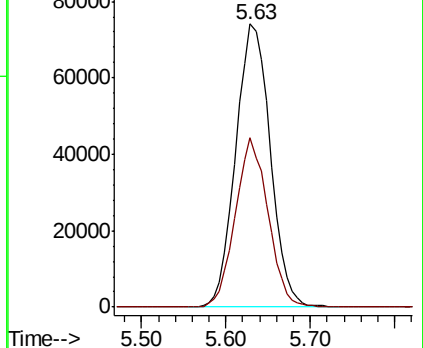
168 100

99 60.0 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: 1.585 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017155.D

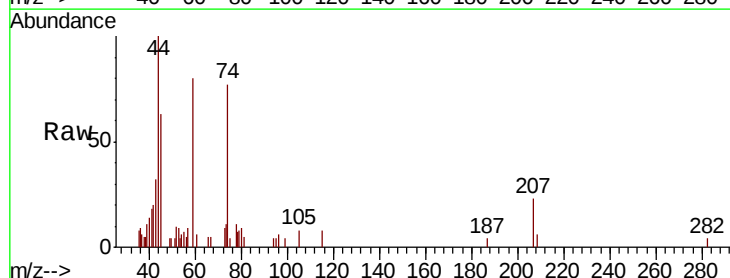
Acq: 02 Jul 2020 17:48

Tgt Ion: 74 Resp: 1368

Ion Ratio Lower Upper

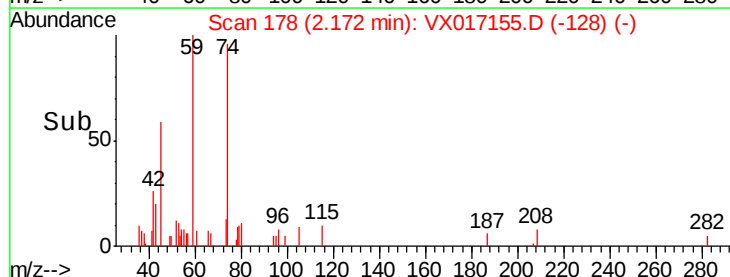
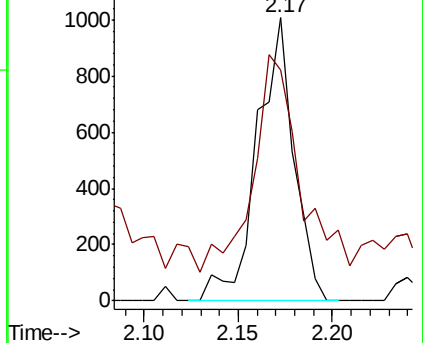
74 100

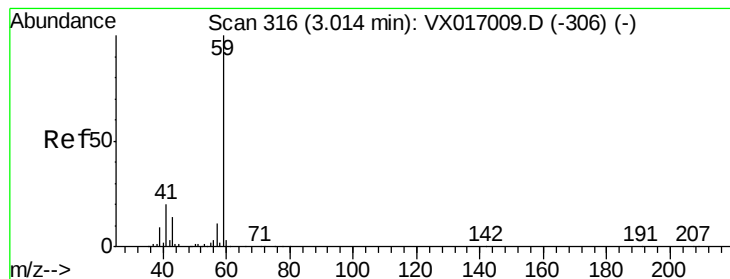
45 96.5 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



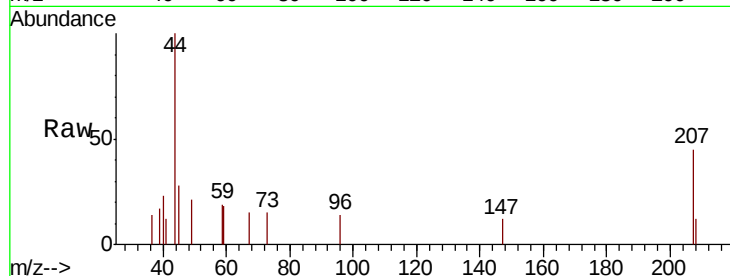


#11

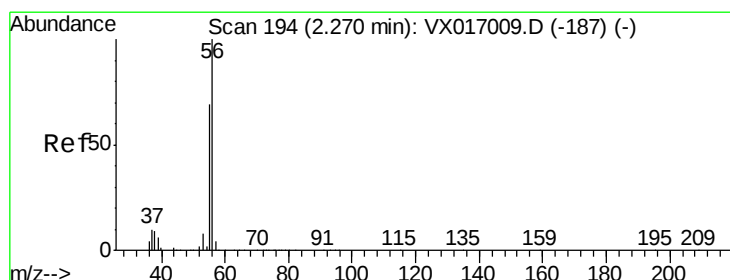
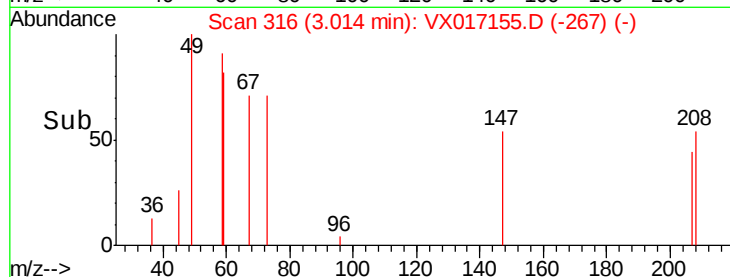
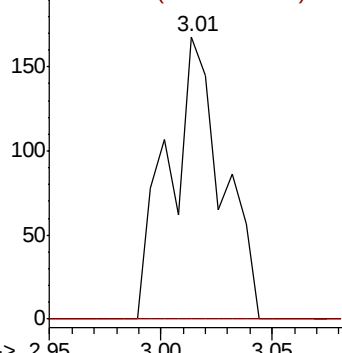
Tert butyl alcohol
Concen: 0.580 ug/l
RT: 3.01 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX017155.D
Acq: 02 Jul 2020 17:48

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 59 Resp: 281
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



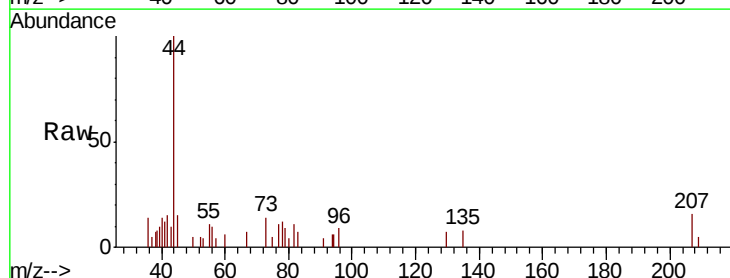
Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



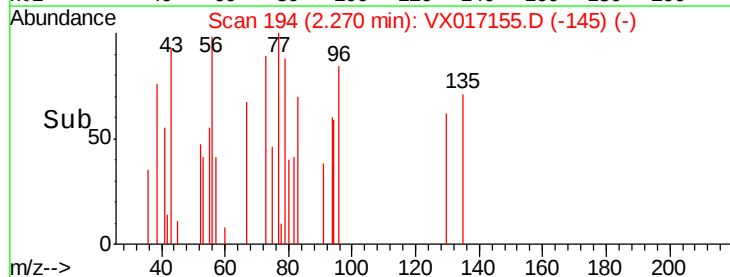
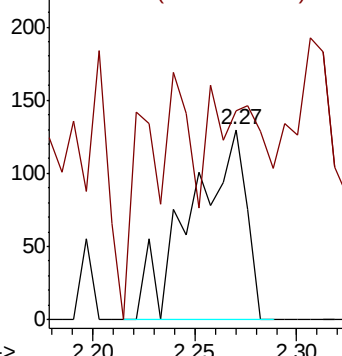
#13

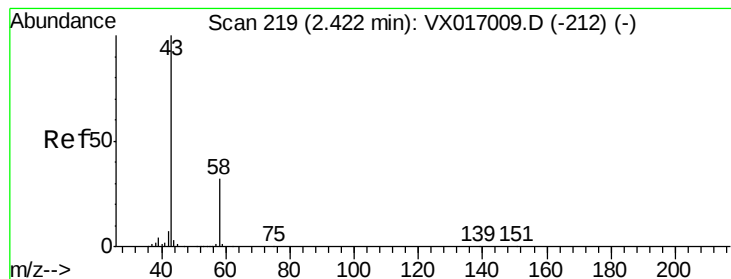
Acrolein
Concen: 0.842 ug/l
RT: 2.27 min Scan# 194
Delta R.T. 0.00 min
Lab File: VX017155.D
Acq: 02 Jul 2020 17:48

Tgt Ion: 56 Resp: 244
Ion Ratio Lower Upper
56 100
55 120.5 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: 12.363 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

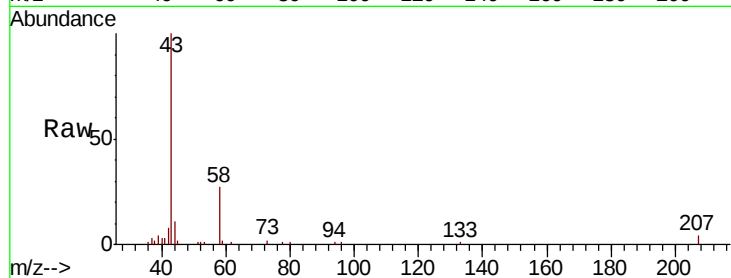
ClientSampleId :

Tot Ion: 43 Resp: 11746

Ion Ratio Lower Upper

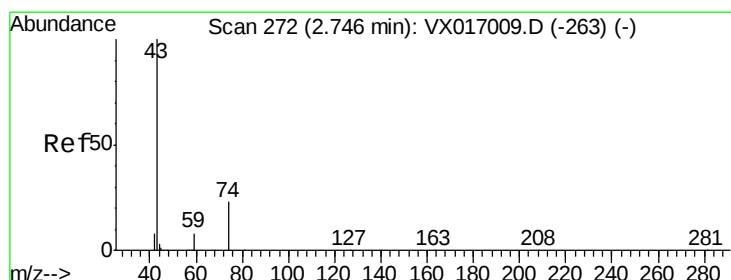
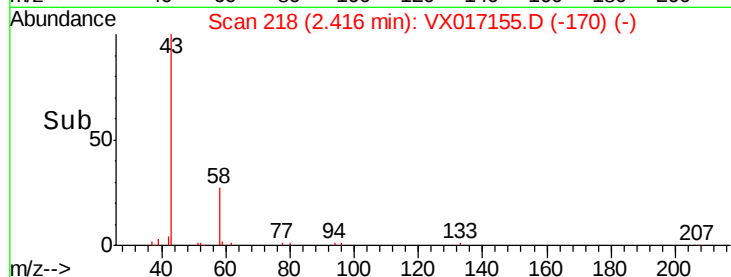
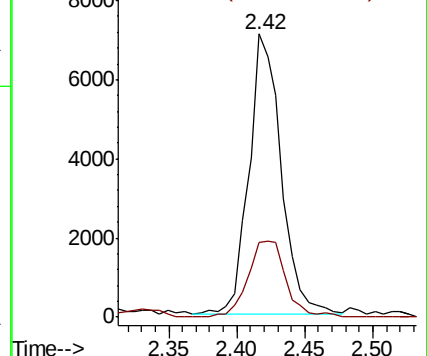
43 100

58 26.9 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.234 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX017155.D

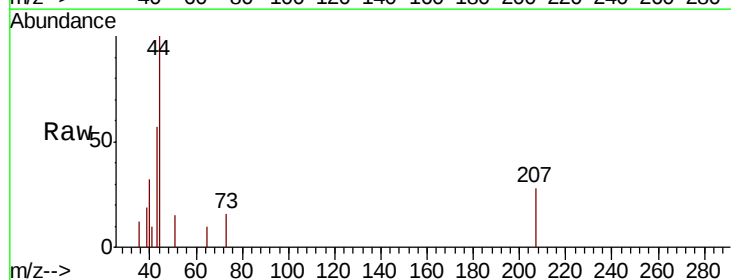
Acq: 02 Jul 2020 17:48

Tgt Ion: 43 Resp: 580

Ion Ratio Lower Upper

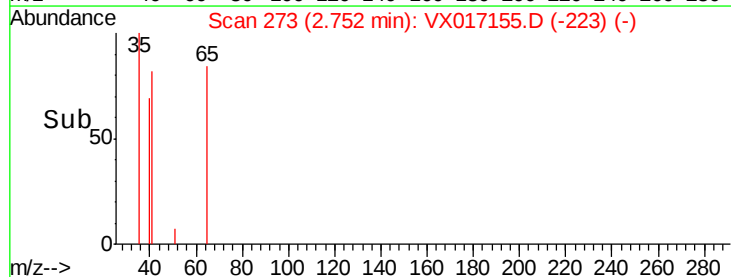
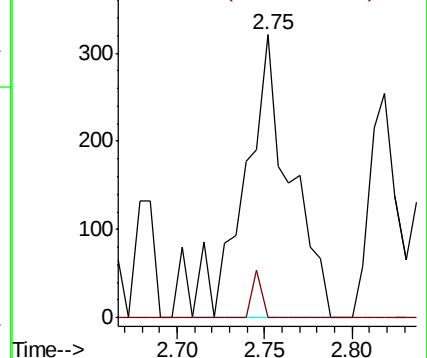
43 100

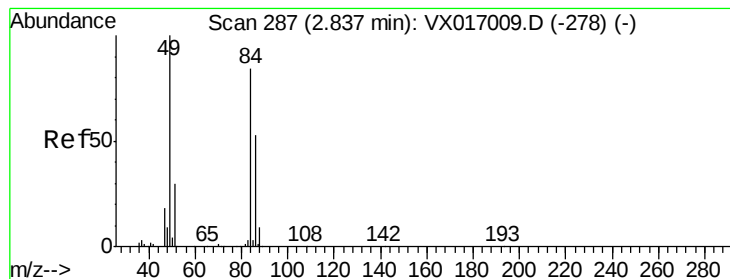
74 3.4 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methvlene Chloride

Concen: 14.842 ug/l

RT: 2.84 min Scan# 287

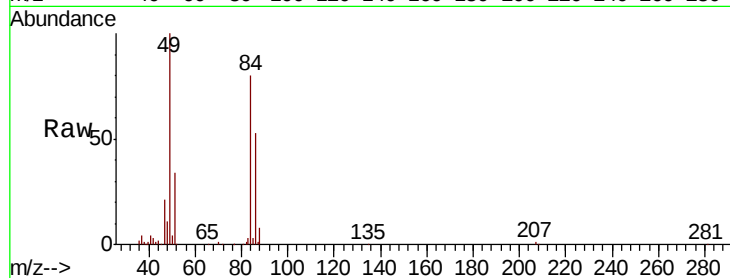
Delta R.T. 0.00 min

Lab File: VX017155.D

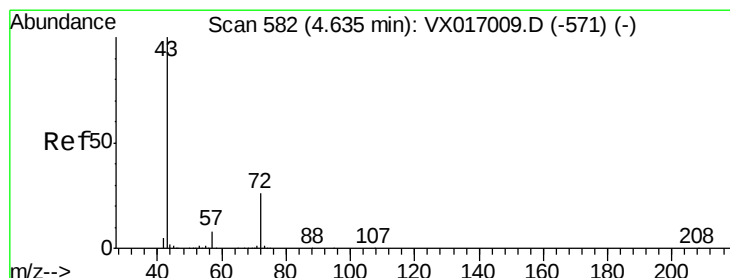
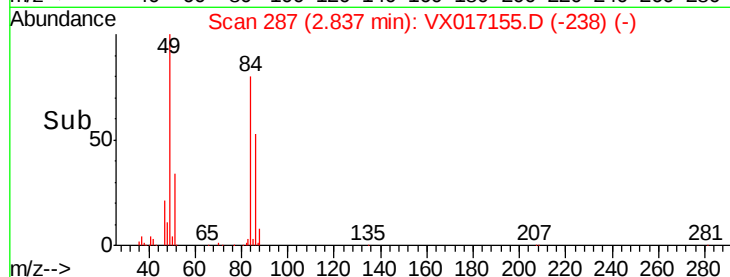
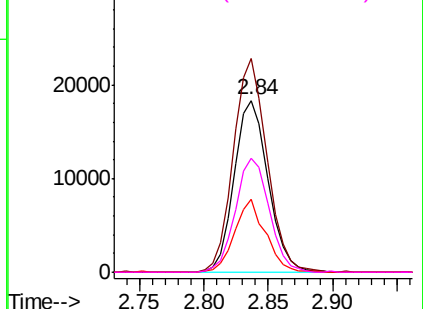
Acq: 02 Jul 2020 17:48

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	84	Resp:	33541
Ion	Ratio	Lower	Upper
84	100		
49	124.4	94.7	142.1
51	42.8	28.6	42.8
86	66.3	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: 1.433 ug/l

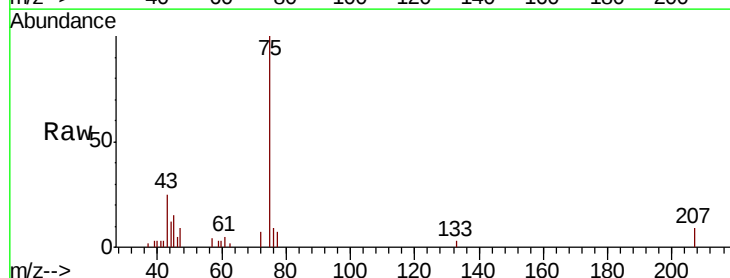
RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

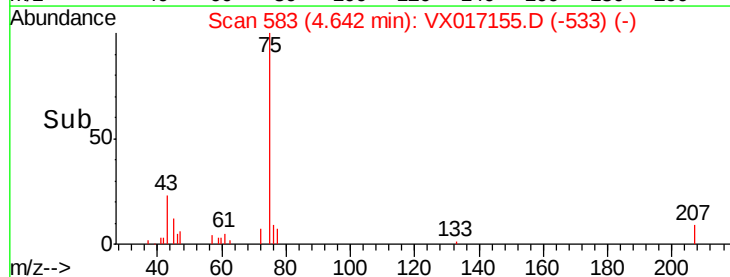
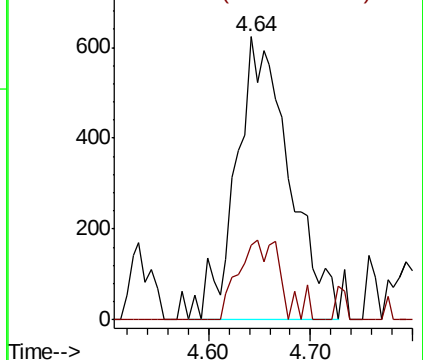
Lab File: VX017155.D

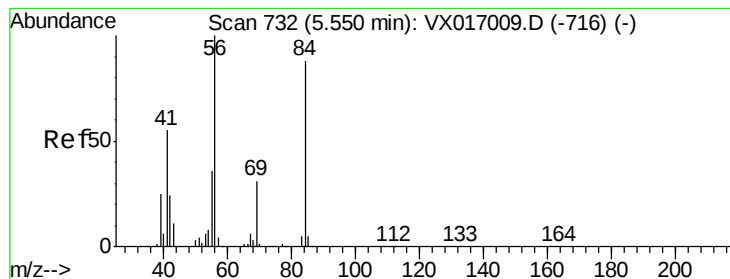
Acq: 02 Jul 2020 17:48

Tgt Ion:	43	Resp:	2269
Ion	Ratio	Lower	Upper
43	100		
72	26.3	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: 1.147 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

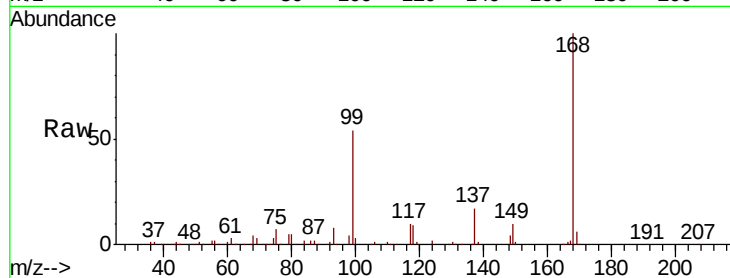
Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

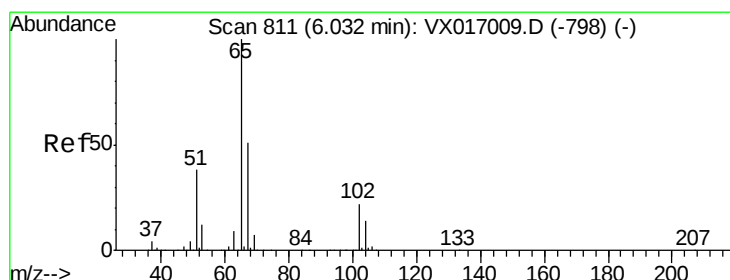
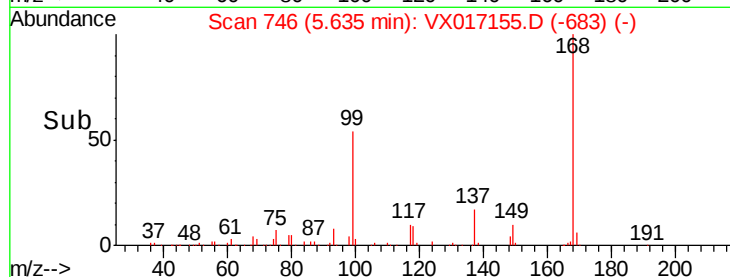
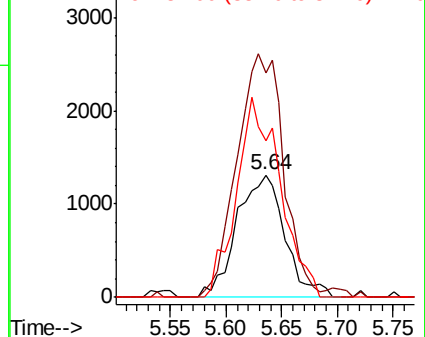
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 3932

Ion	Ratio	Lower	Upper
56	100		
69	183.2	25.0	37.4#
84	128.0	69.1	103.7#



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



#33

1,2-Dichloroethane-d4

Concen: 53.734 ug/l

RT: 6.04 min Scan# 812

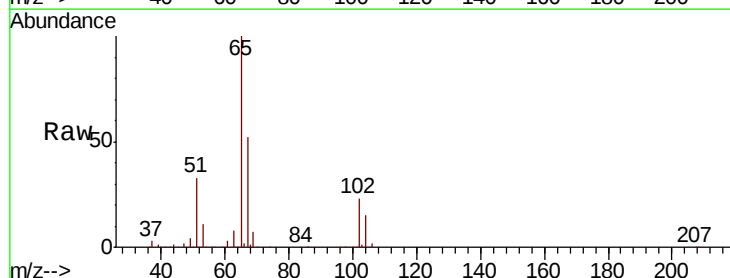
Delta R.T. 0.01 min

Lab File: VX017155.D

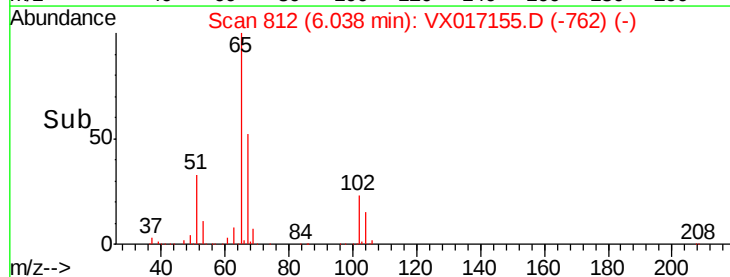
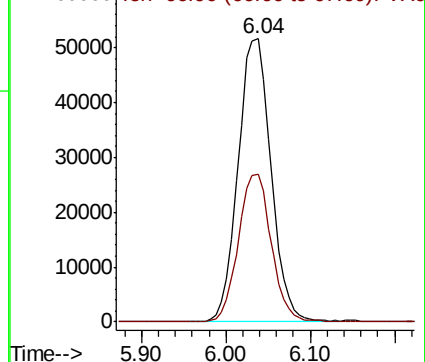
Acq: 02 Jul 2020 17:48

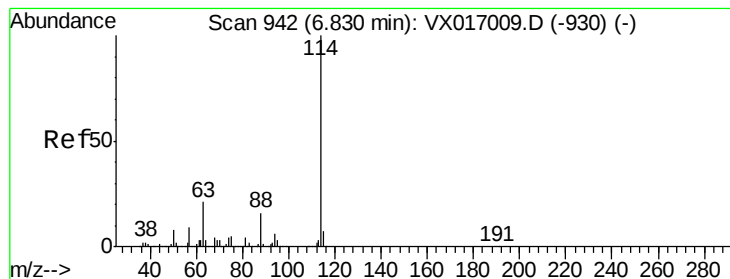
Tgt Ion: 65 Resp: 136471

Ion	Ratio	Lower	Upper
65	100		
67	52.0	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: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

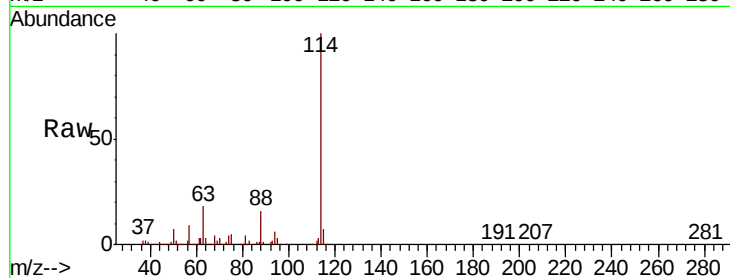
Tot Ion:114 Resp: 344462

Ion Ratio Lower Upper

114 100

63 18.2 0.0 41.4

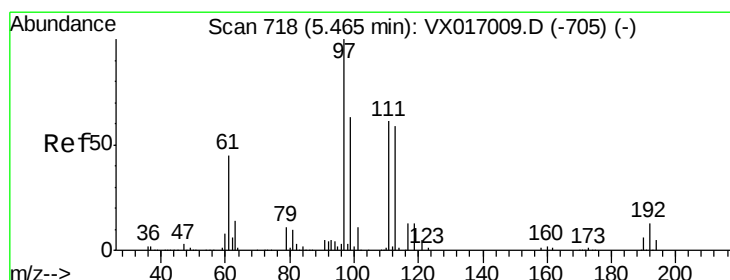
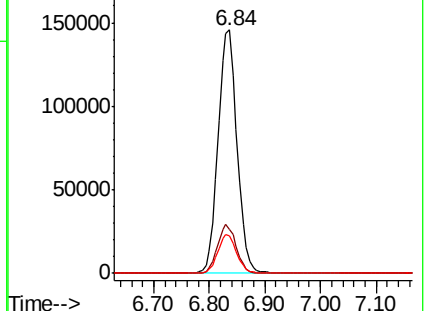
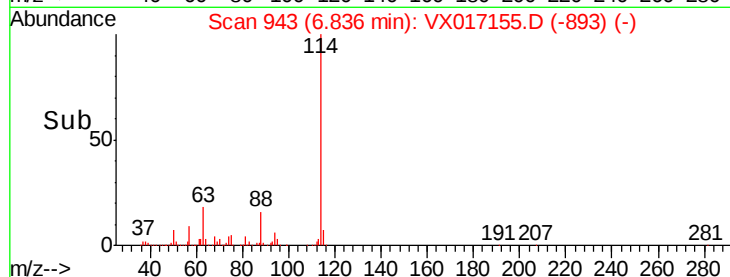
88 15.6 0.0 32.4



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: 53.327 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

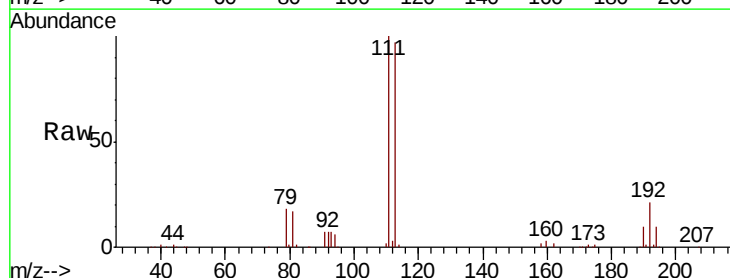
Tgt Ion:113 Resp: 116198

Ion Ratio Lower Upper

113 100

111 103.4 81.9 122.9

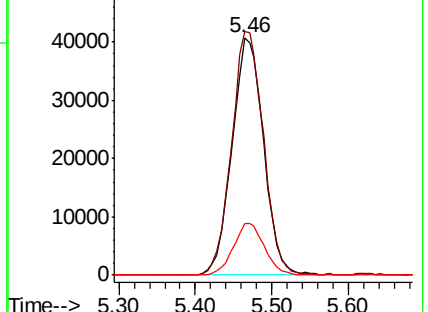
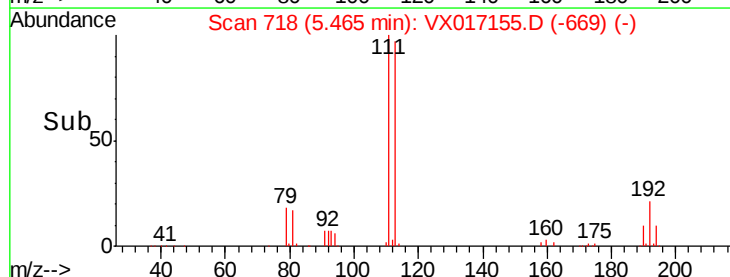
192 21.4 16.7 25.1

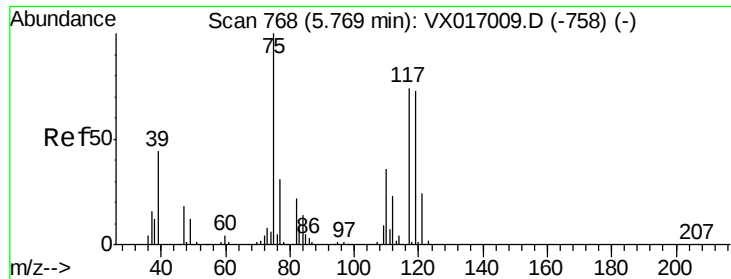


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

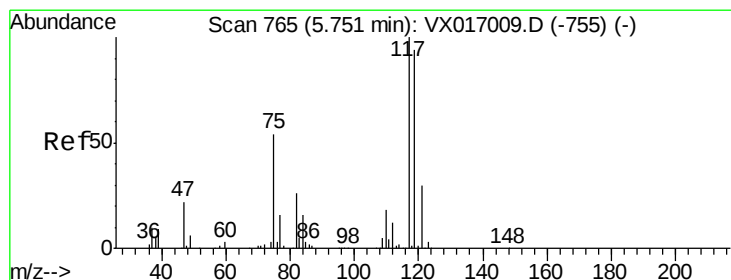
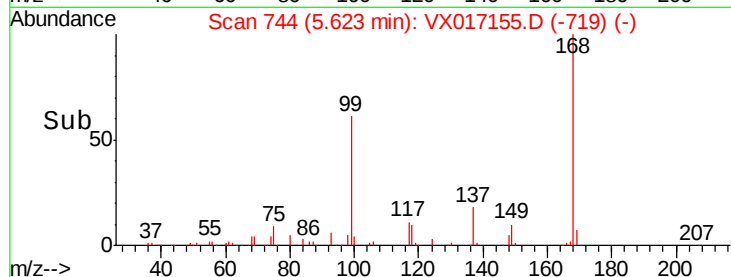
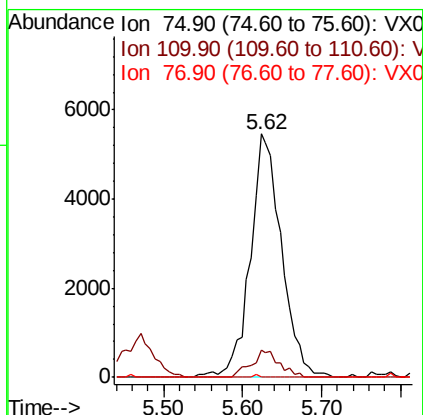
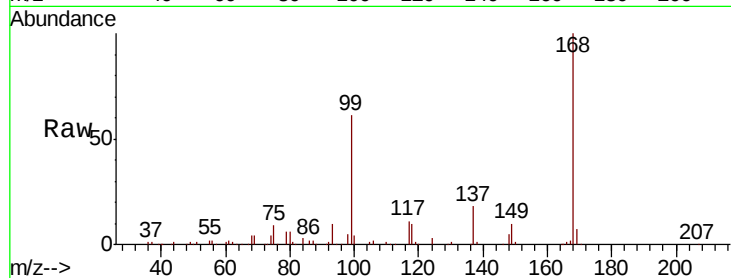




#36
 1,1-Dichloropropene
 Concen: 4.622 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.15 min
 Lab File: VX017155.D
 Acq: 02 Jul 2020 17:48

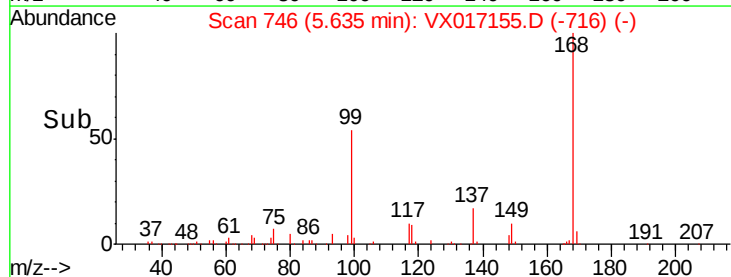
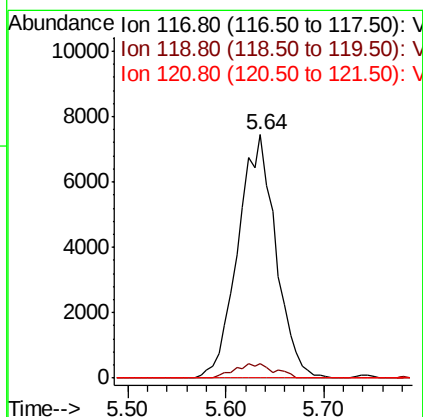
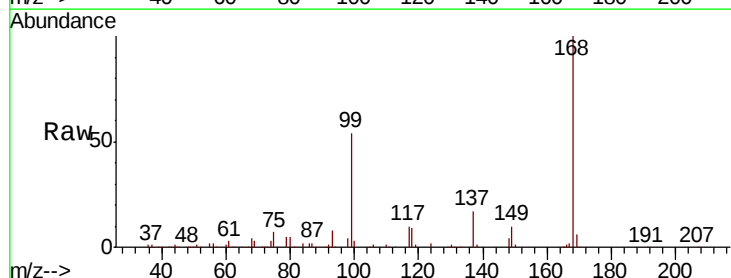
Instrument :
 MSVOA_X
 ClientSampleId :

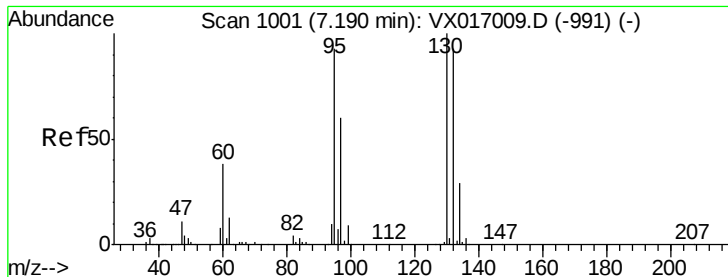
Tot Ion: 75 Resp: 15048
 Ion Ratio Lower Upper
 75 100
 110 10.0 18.1 54.1#
 77 0.2 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.573 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX017155.D
 Acq: 02 Jul 2020 17:48

Tgt Ion:117 Resp: 19985
 Ion Ratio Lower Upper
 117 100
 119 5.9 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: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

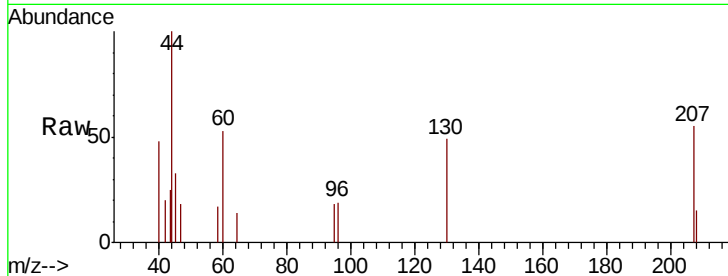
ClientSampled :

Tot Ion:130 Resp: 216

Ion Ratio Lower Upper

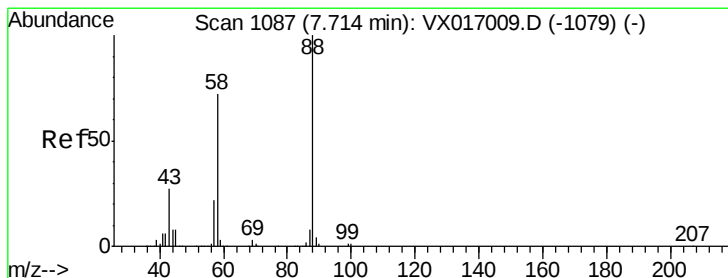
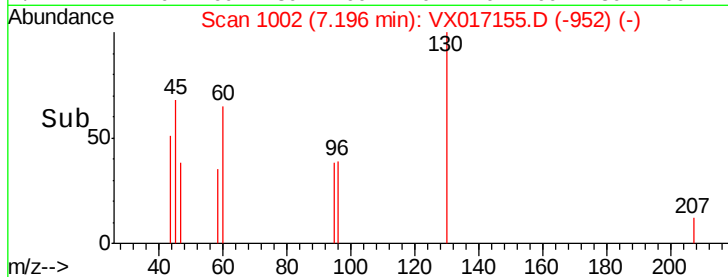
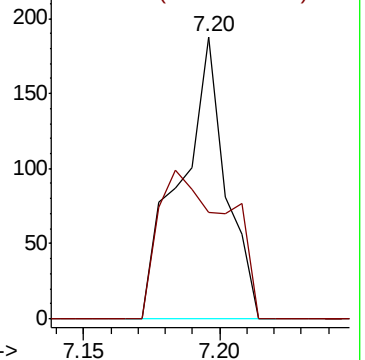
130 100

95 37.8 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: 0.914 ug/l

RT: 7.51 min Scan# 1053

Delta R.T. -0.21 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

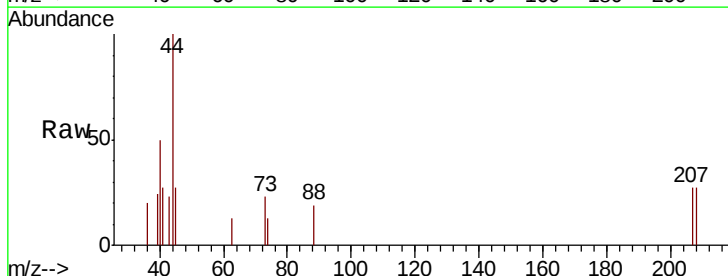
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.8#

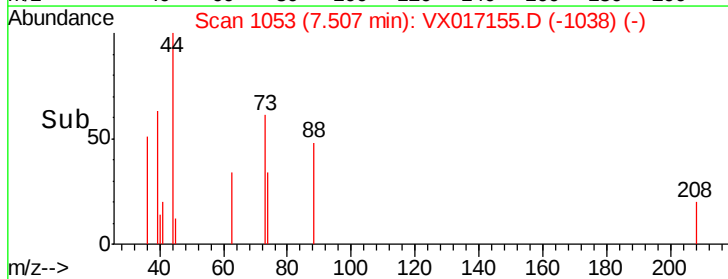
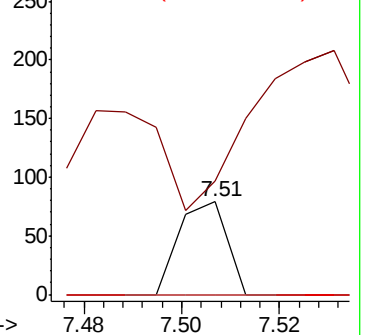
58 0.0 54.8 82.2#

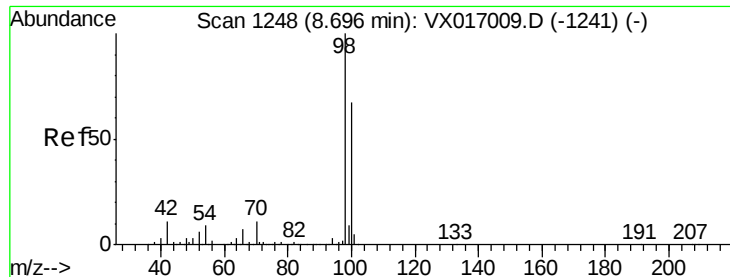


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.458 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

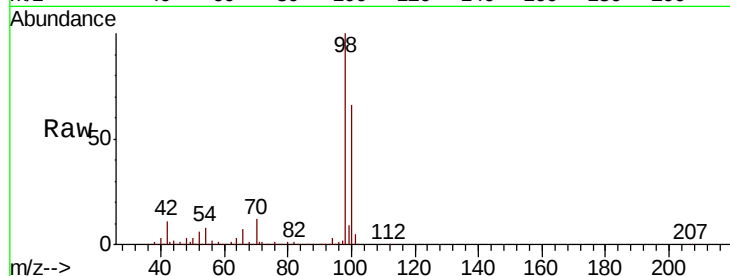
ClientSampled :

Tot Ion: 98 Resp: 422674

Ion Ratio Lower Upper

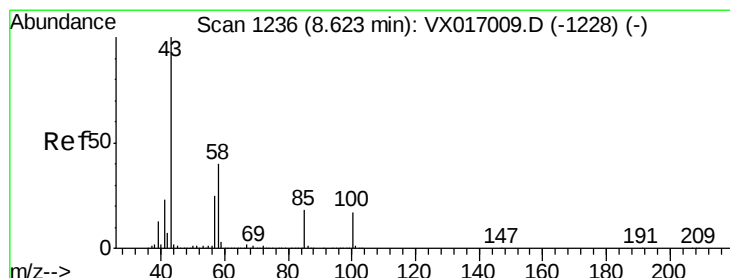
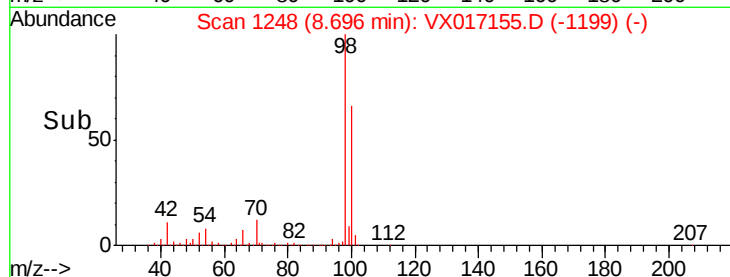
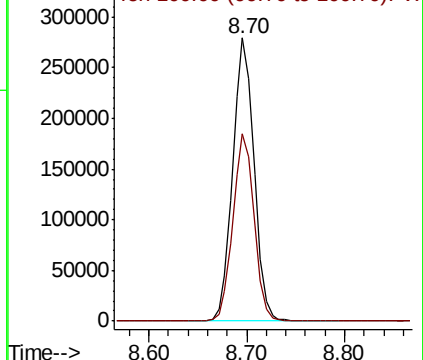
98 100

100 65.9 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.443 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VX017155.D

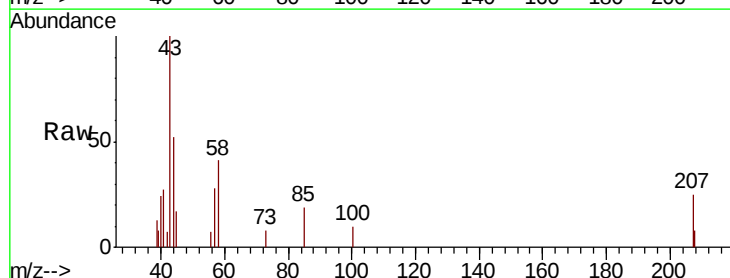
Acq: 02 Jul 2020 17:48

Tgt Ion: 43 Resp: 1448

Ion Ratio Lower Upper

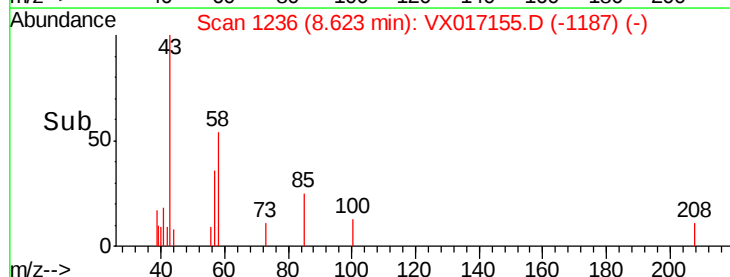
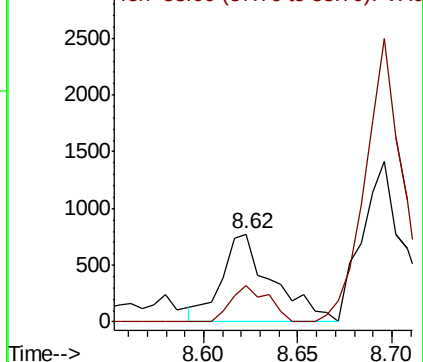
43 100

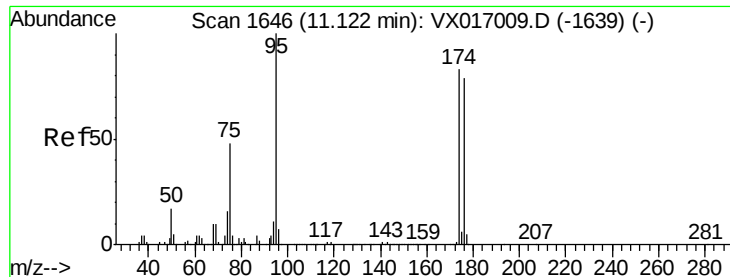
58 30.5 31.9 47.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 55.364 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

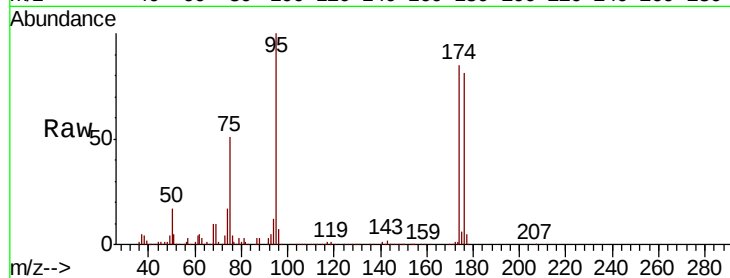
Tot Ion: 95 Resp: 174382

Ion Ratio Lower Upper

95 100

174 85.0 0.0 164.0

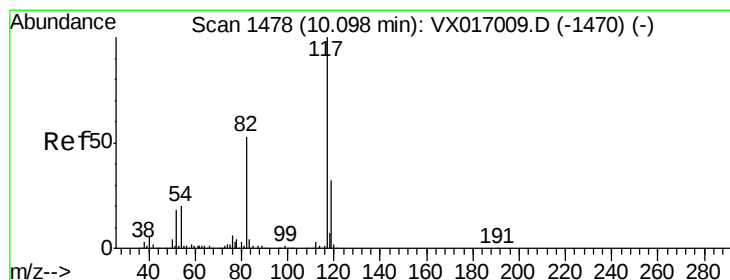
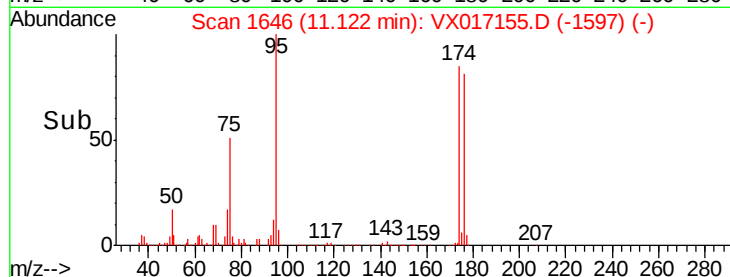
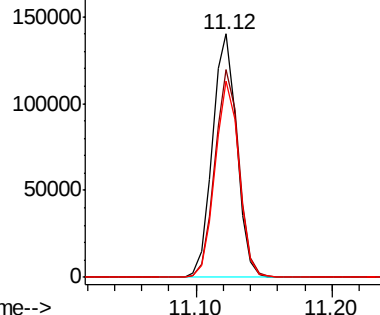
176 79.8 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX017009.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017009.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017009.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

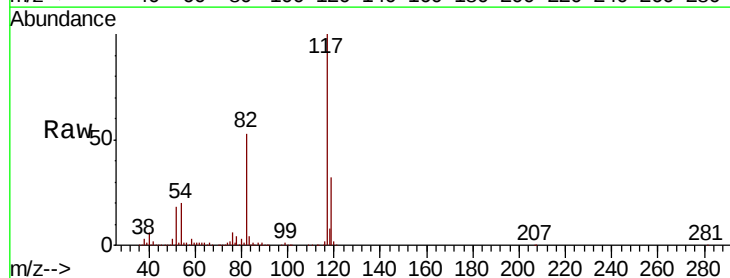
Tgt Ion: 117 Resp: 358619

Ion Ratio Lower Upper

117 100

82 52.7 42.6 63.8

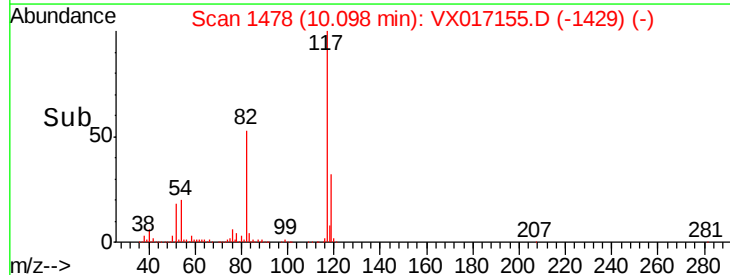
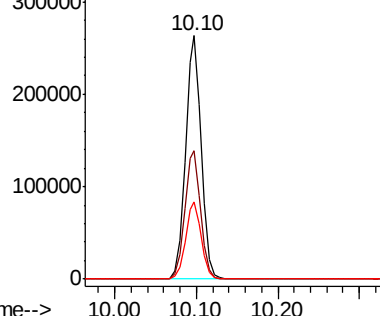
119 31.6 25.4 38.2

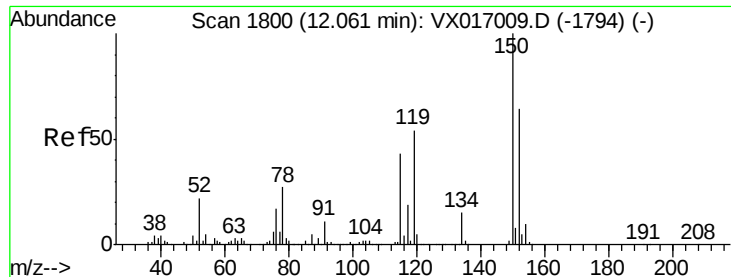


Abundance Ion 116.90 (116.60 to 117.60): VX017009.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX017009.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX017009.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

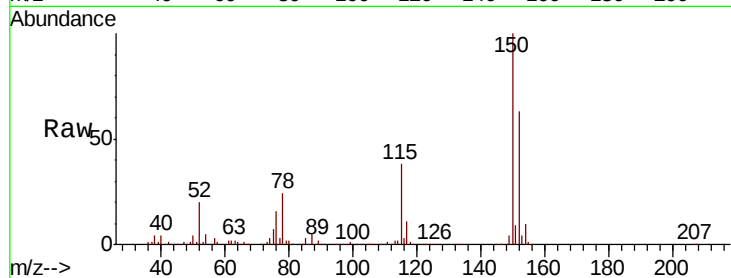
Tot Ion:152 Resp: 190561

Ion Ratio Lower Upper

152 100

115 57.0 40.9 122.7

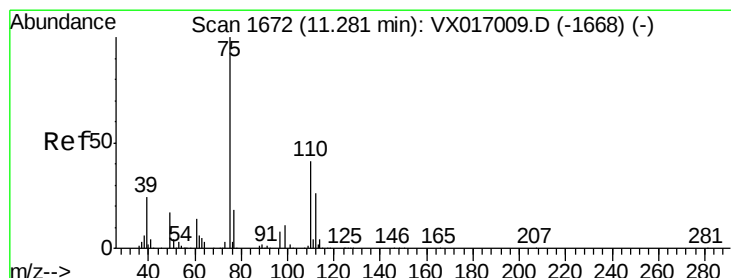
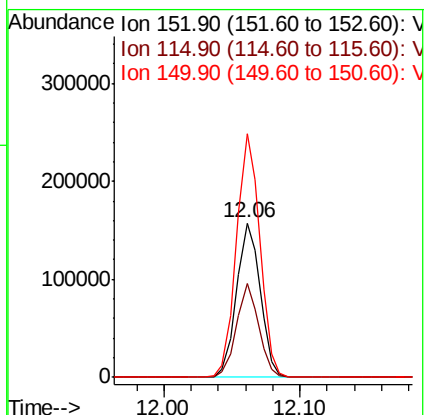
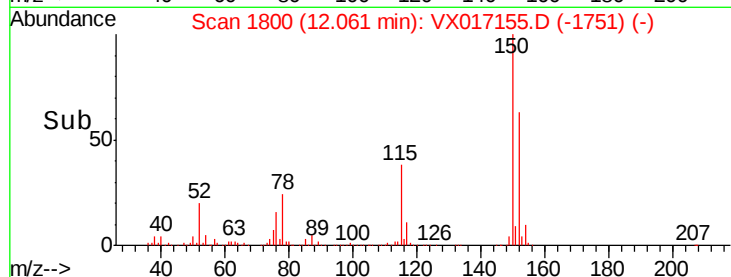
150 156.5 0.0 351.6



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: 23.545 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017155.D

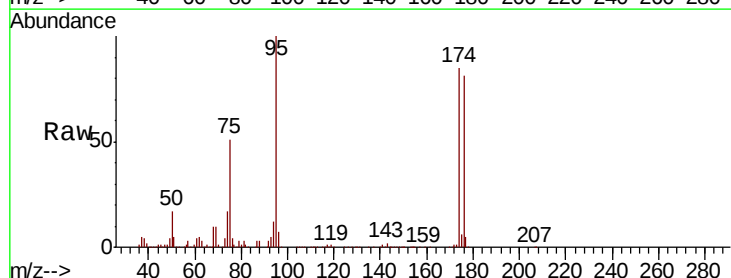
Acq: 02 Jul 2020 17:48

Tgt Ion: 75 Resp: 88229

Ion Ratio Lower Upper

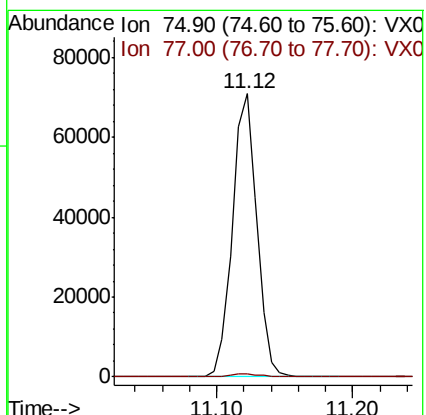
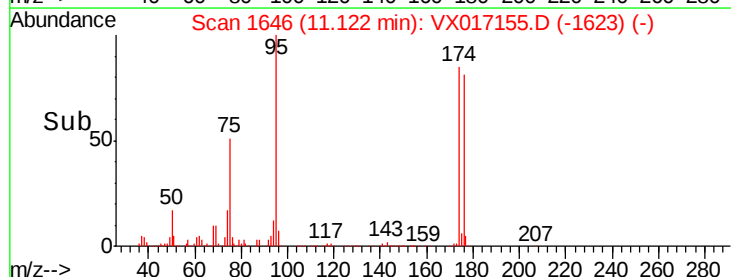
75 100

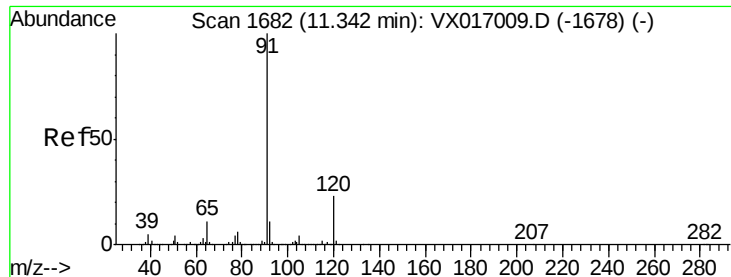
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 1.119 ug/l

RT: 11.40 min Scan# 1692

Delta R.T. 0.06 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

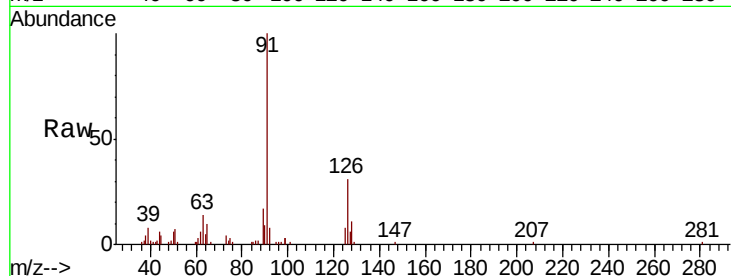
ClientSampleId :

Tot Ion: 91 Resp: 15798

Ion Ratio Lower Upper

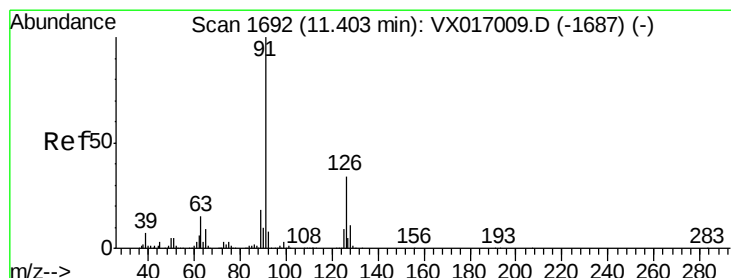
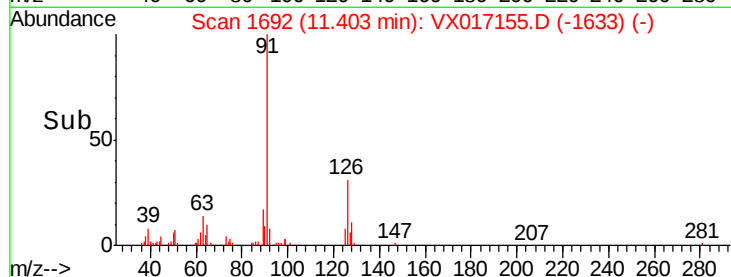
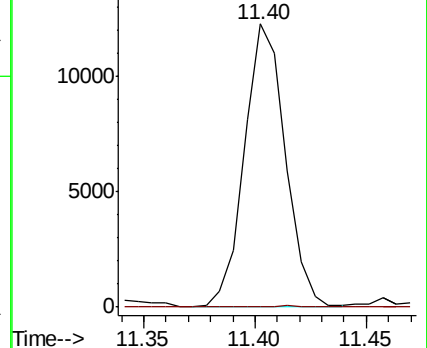
91 100

120 0.1 11.9 35.9#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 1.849 ug/l

RT: 11.40 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VX017155.D

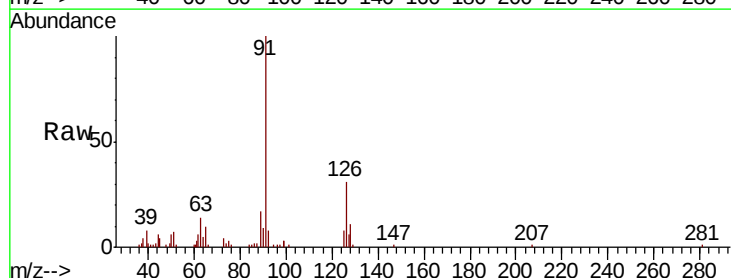
Acq: 02 Jul 2020 17:48

Tgt Ion: 91 Resp: 15798

Ion Ratio Lower Upper

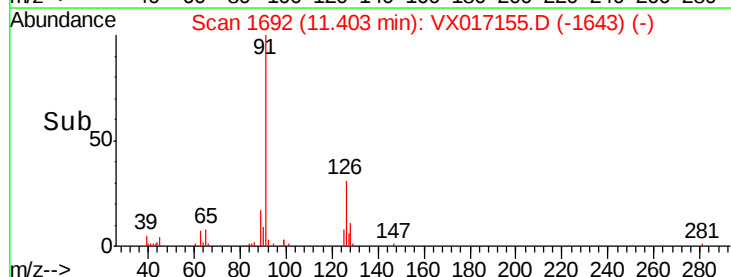
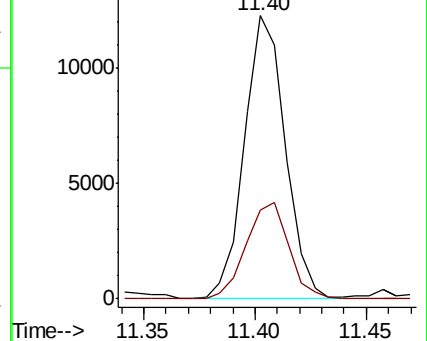
91 100

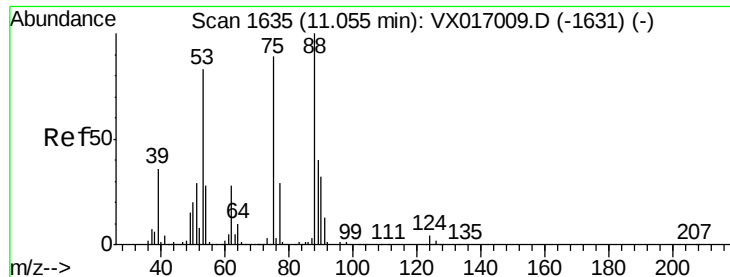
126 35.3 17.4 52.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 60.973 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

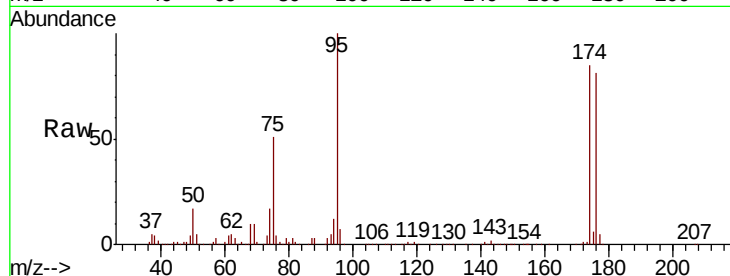
Tot Ion: 75 Resp: 88229

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

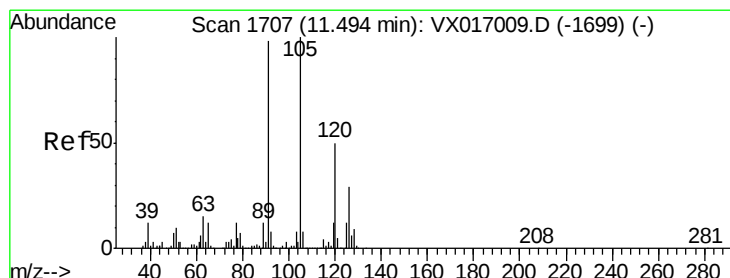
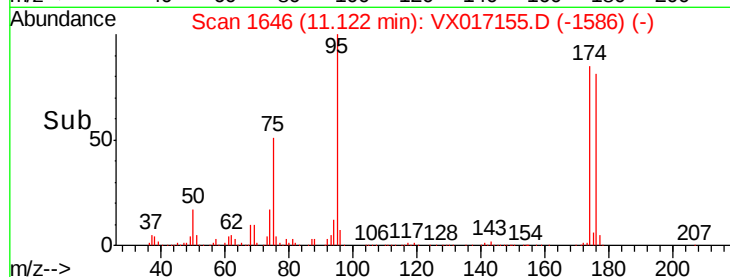
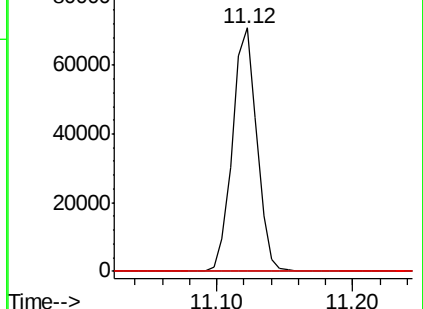
89 0.0 37.0 55.4#



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



#82

4-Chlorotoluene

Concen: 1.614 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VX017155.D

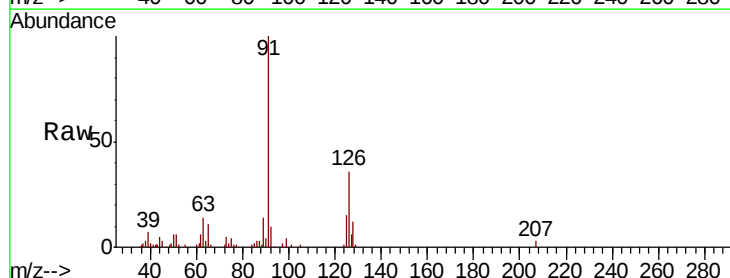
Acq: 02 Jul 2020 17:48

Tgt Ion: 91 Resp: 16482

Ion Ratio Lower Upper

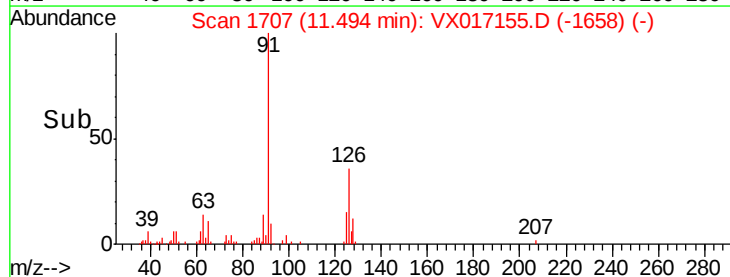
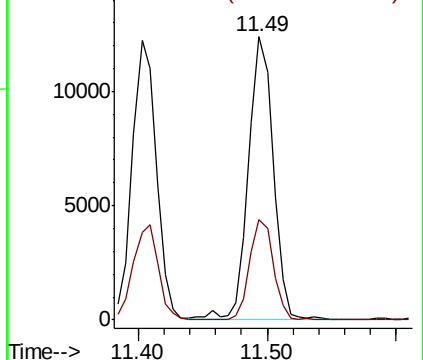
91 100

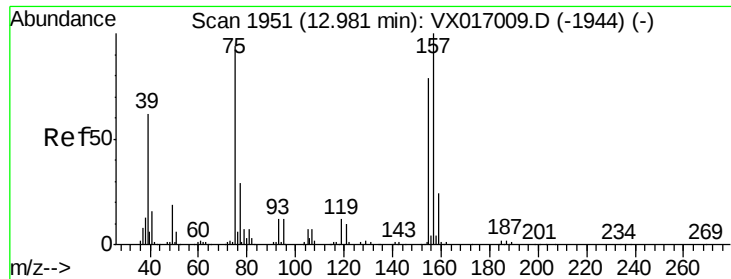
126 33.6 15.2 45.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.661 ug/l

RT: 13.09 min Scan# 1969

Delta R.T. 0.11 min

Lab File: VX017155.D

Acq: 02 Jul 2020 17:48

Instrument :

MSVOA_X

ClientSampleId :

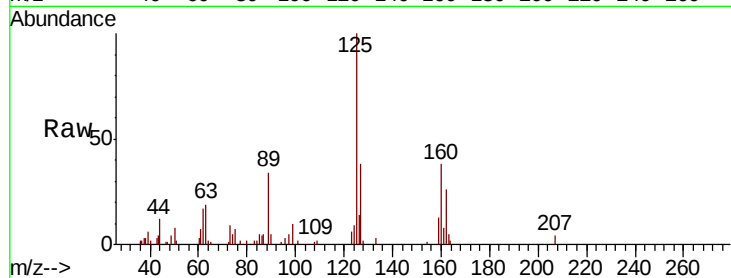
Tot Ion: 75 Resp: 619

Ion Ratio Lower Upper

75 100

155 0.0 45.1 135.2#

157 0.0 56.5 169.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

