

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082019\
 Data File : VX011707.D
 Acq On : 21 Aug 2019 00:48
 Operator : JC/SP
 Sample : K4387-31
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-A2-(0)

Quant Time: Aug 21 01:15:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	373849	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	493244	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	485577	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	216729	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	192724	55.59	ug/l	0.00
Spiked Amount			Recovery	=	111.18%	
35) Dibromofluoromethane	5.49	113	158718	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
50) Toluene-d8	8.71	98	622509	61.93	ug/l	0.00
Spiked Amount			Recovery	=	123.86%	
62) 4-Bromofluorobenzene	11.13	95	201676	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	

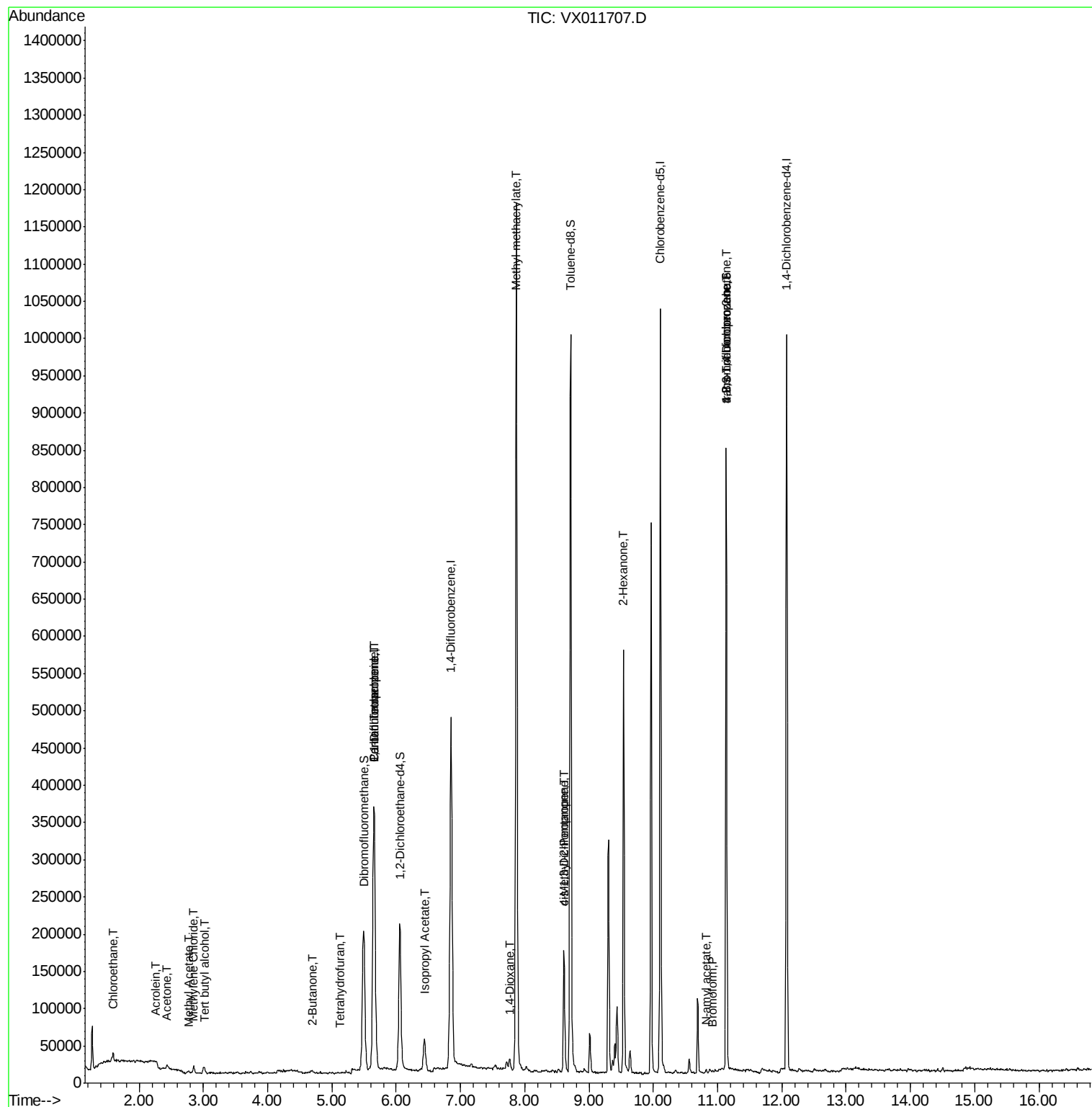
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.61	64	704	0.431	ug/l #	75
11) Tert butyl alcohol	3.01	59	5255	6.178	ug/l #	88
13) Acrolein	2.26	56	349	13.452	ug/l #	37
16) Acetone	2.43	43	7369	4.227	ug/l	95
18) Methyl Acetate	2.77	43	4920	0.910	ug/l #	83
20) Methylene Chloride	2.85	84	3661	1.000	ug/l	93
25) 2-Butanone	4.70	43	1375	0.502	ug/l #	78
29) Tetrahydrofuran	5.12	42	436	0.243	ug/l #	71
36) 1,1-Dichloropropene	5.65	75	22307	5.290	ug/l #	50
38) Carbon Tetrachloride	5.66	117	31724	6.828	ug/l #	15
43) Isopropyl Acetate	6.44	43	58183	7.686	ug/l	98
48) Methyl methacrylate	7.87	41	102476	27.336	ug/l #	42
49) 1,4-Dioxane	7.76	88	208	2.086	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	56691	11.442	ug/l #	50
54) cis-1,3-Dichloropropene	8.61	75	27025	5.456	ug/l #	66
59) 2-Hexanone	9.54	43	66656	17.445	ug/l #	51
71) Bromoform	10.91	173	85	3.313	ug/l #	28
74) N-amyl acetate	10.82	43	2980	0.499	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	99370	24.179	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	99370	64.110	ug/l #	11

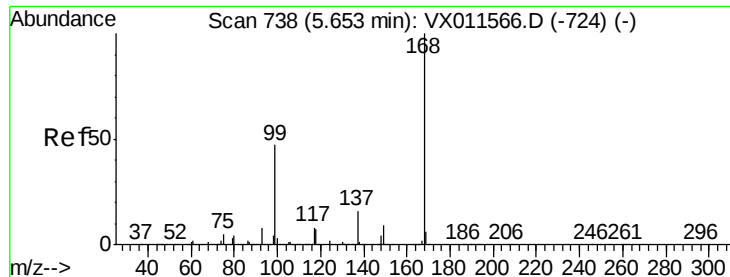
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
T4-A2-(0)

Quant Time: Aug 21 01:15:44 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:15:26 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Instrument :

MSVOA_X

ClientSampled :

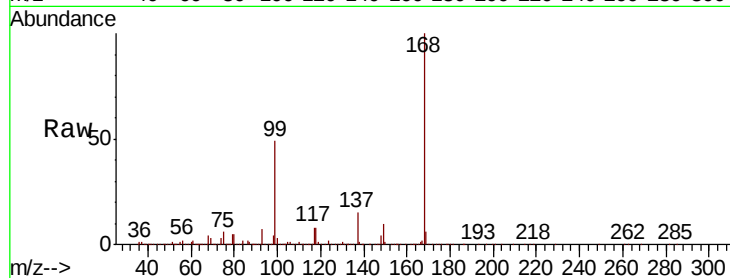
T4-A2-(0)

Tgt Ion:168 Resp: 373849

Ion Ratio Lower Upper

168 100

99 48.6 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

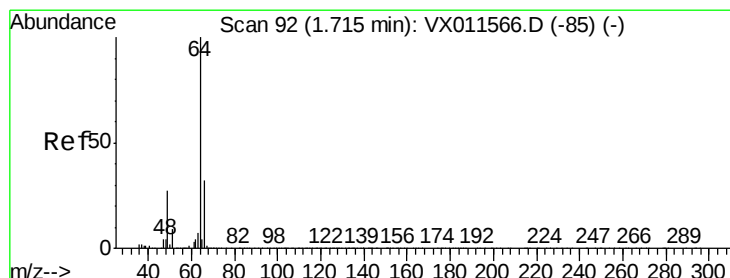
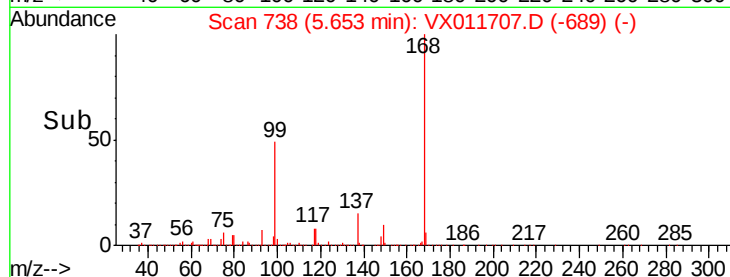
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#6

Chloroethane

Concen: 0.431 ug/l

RT: 1.61 min Scan# 74

Delta R.T. -0.11 min

Lab File: VX011707.D

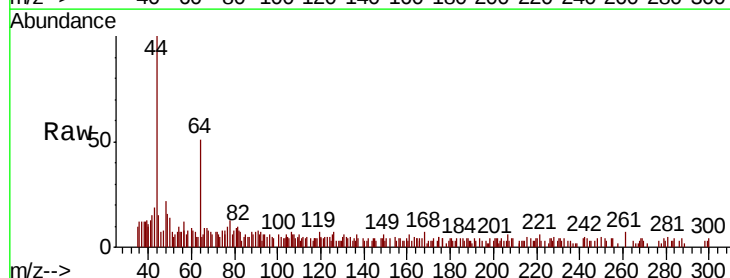
Acq: 21 Aug 2019 00:48

Tgt Ion: 64 Resp: 704

Ion Ratio Lower Upper

64 100

66 17.6 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

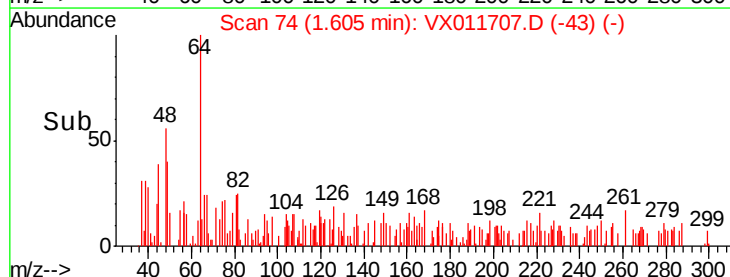
1000

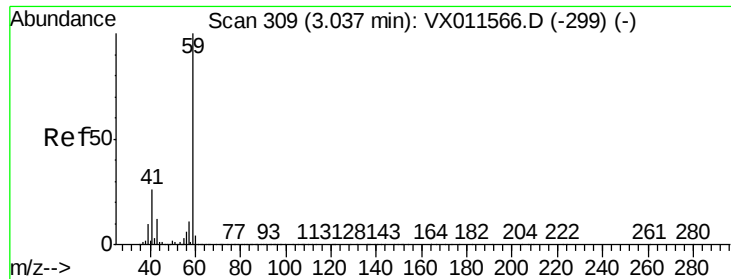
500

0

1.58 1.60 1.62

Time-->



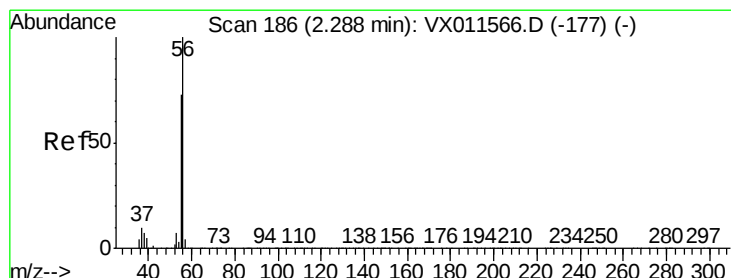
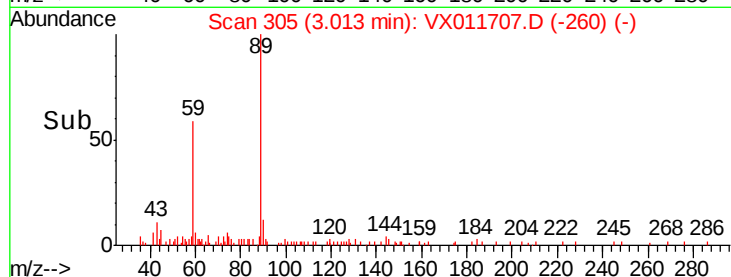
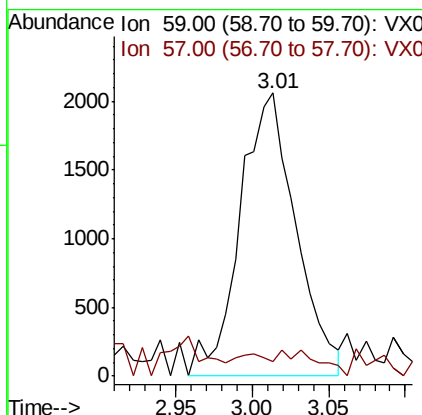
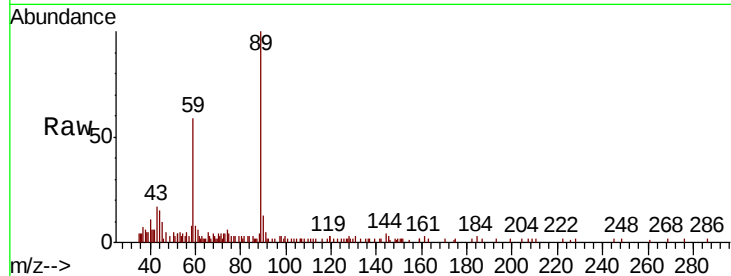


#11

Tert butyl alcohol
 Concen: 6.178 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.02 min
 Lab File: VX011707.D
 Acq: 21 Aug 2019 00:48

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-A2-(0)

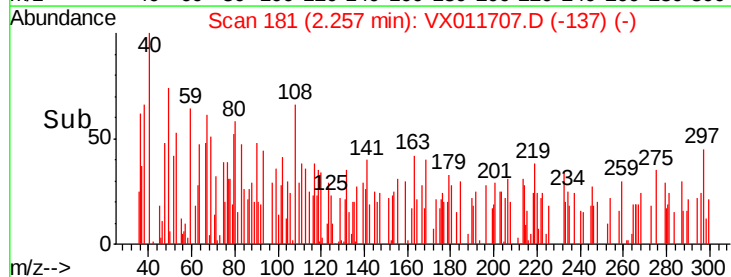
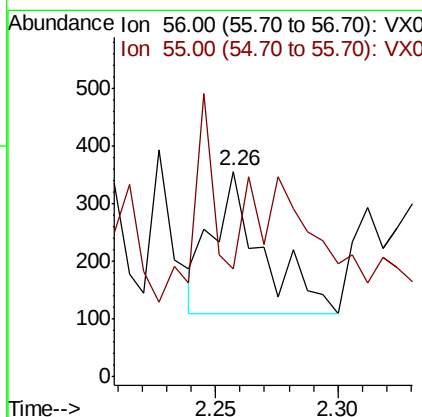
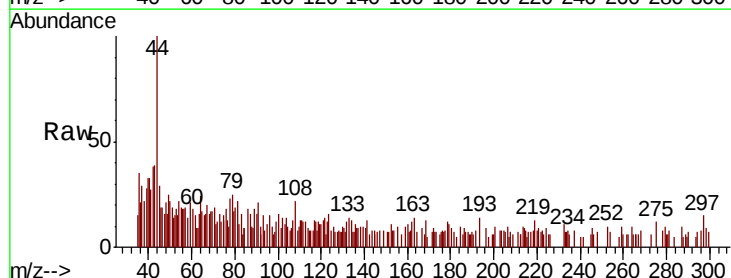
Tgt Ion: 59 Resp: 5255
 Ion Ratio Lower Upper
 59 100
 57 6.3 8.7 13.1#

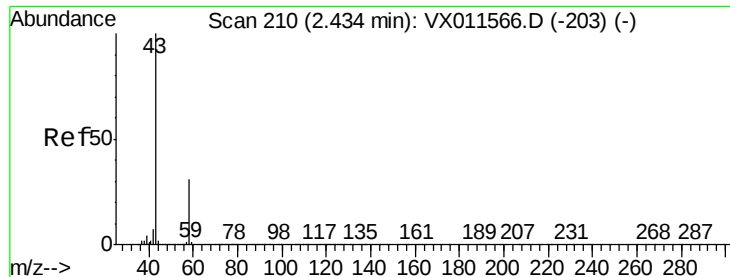


#13

Acrolein
 Concen: 13.452 ug/l
 RT: 2.26 min Scan# 181
 Delta R.T. -0.03 min
 Lab File: VX011707.D
 Acq: 21 Aug 2019 00:48

Tgt Ion: 56 Resp: 349
 Ion Ratio Lower Upper
 56 100
 55 120.9 55.5 83.3#

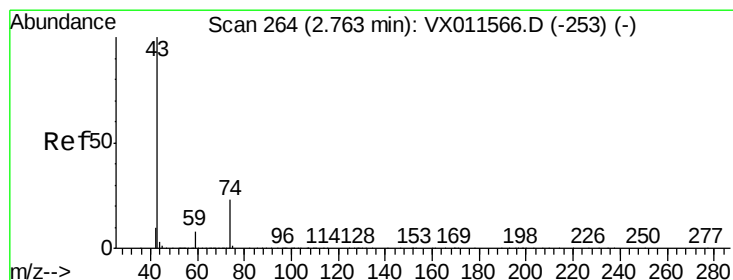
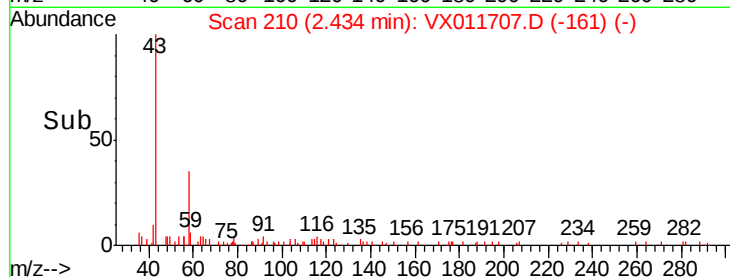
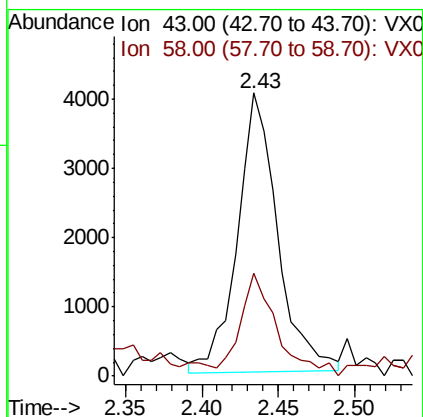
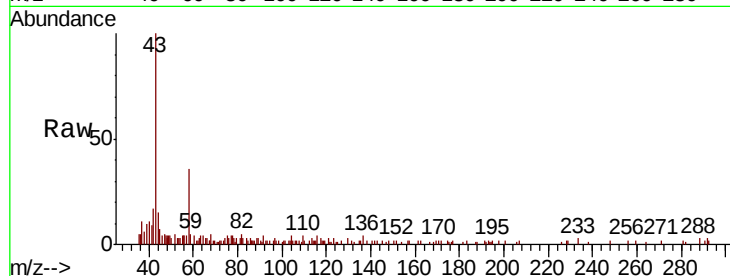




#16
Acetone
Concen: 4.227 ug/l
RT: 2.43 min Scan# 210
Delta R.T. 0.00 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

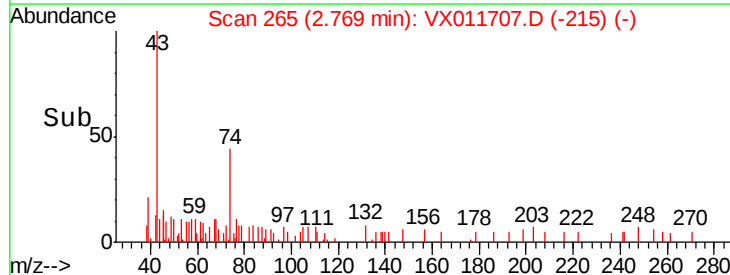
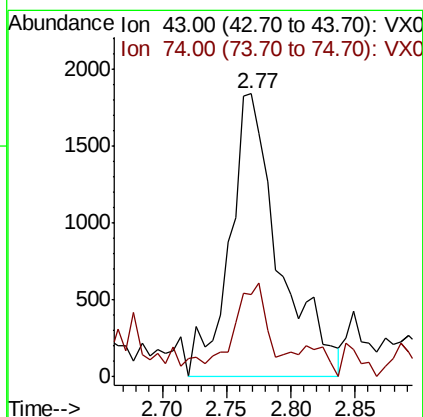
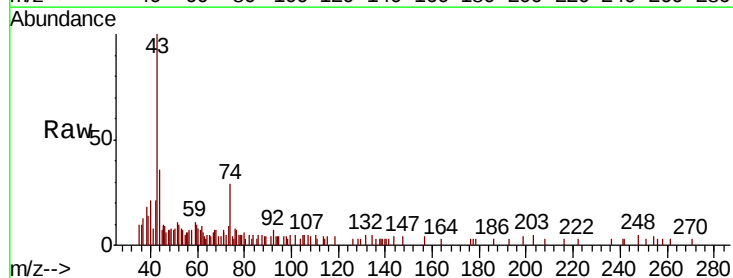
Instrument :
MSVOA_X
ClientSampleId :
T4-A2-(0)

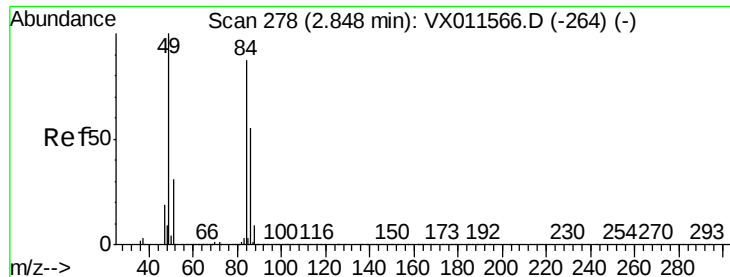
Tgt Ion: 43 Resp: 7369
Ion Ratio Lower Upper
43 100
58 34.1 25.2 37.8



#18
Methyl Acetate
Concen: 0.910 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

Tgt Ion: 43 Resp: 4920
Ion Ratio Lower Upper
43 100
74 16.3 19.7 29.5#

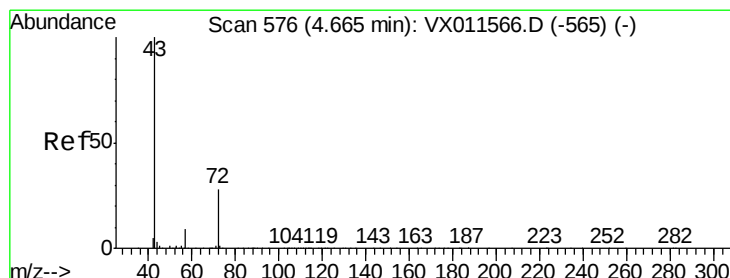
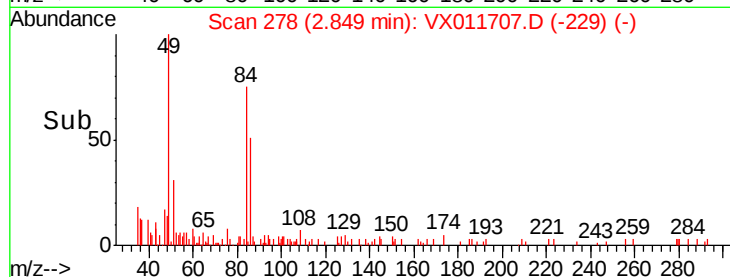
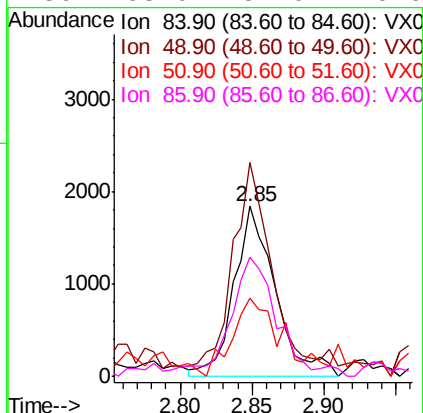
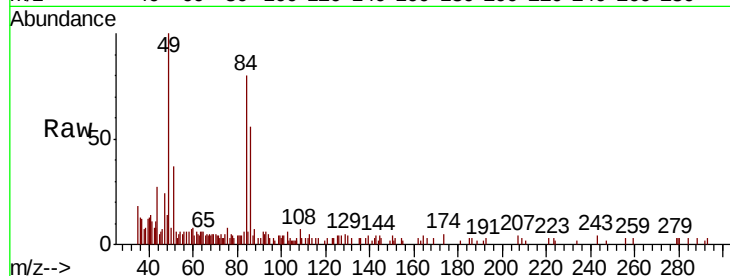




#20
Methylene Chloride
Concen: 1.000 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

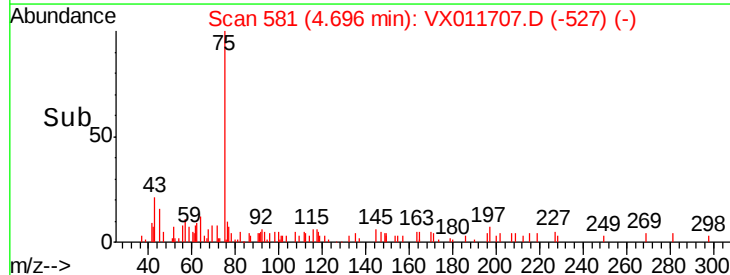
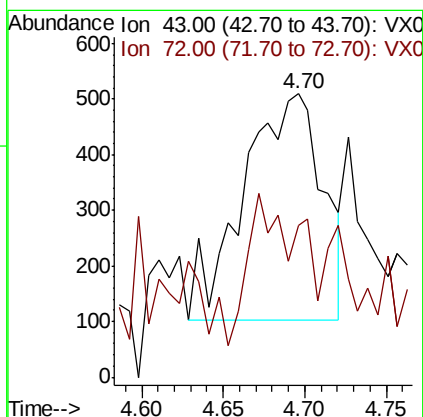
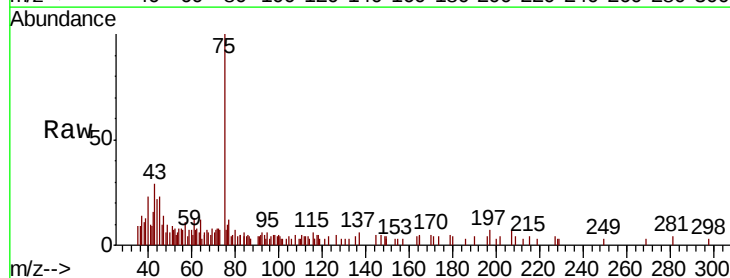
Instrument :
MSVOA_X
ClientSampleId :
T4-A2-(0)

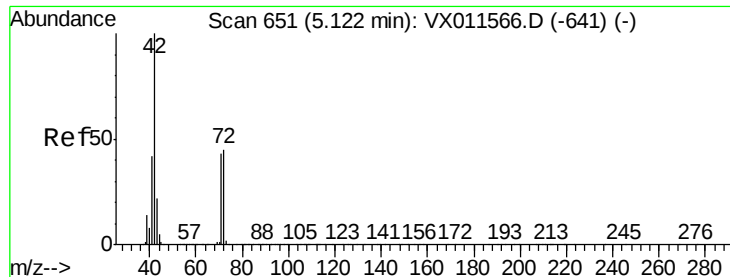
Tgt Ion:	84	Resp:	3661
Ion	Ratio	Lower	Upper
84	100		
49	123.4	92.4	138.6
51	31.6	28.5	42.7
86	68.0	51.0	76.6



#25
2-Butanone
Concen: 0.502 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.03 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

Tgt Ion:	43	Resp:	1375
Ion	Ratio	Lower	Upper
43	100		
72	16.0	22.2	33.4#





#29

Tetrahydrofuran

Concen: 0.243 ug/l

RT: 5.12 min Scan# 651

Delta R.T. 0.00 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Instrument :

MSVOA_X

ClientSampleId :

T4-A2-(0)

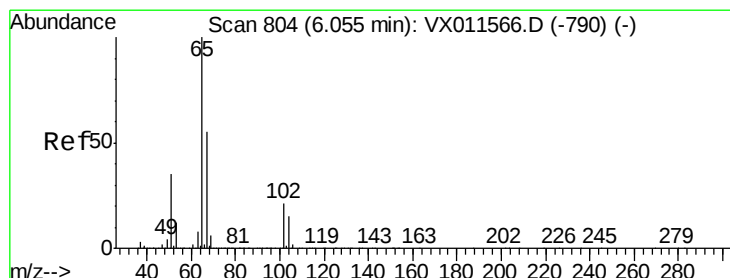
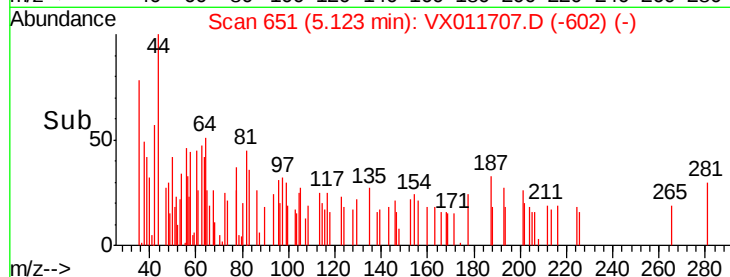
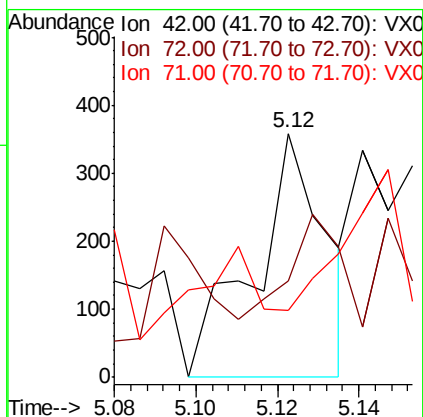
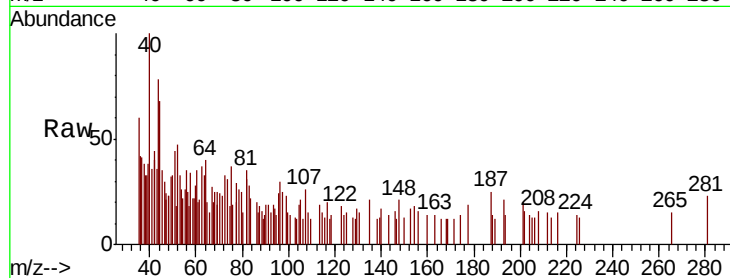
Tgt Ion: 42 Resp: 436

Ion Ratio Lower Upper

42 100

72 33.0 36.1 54.1#

71 17.0 33.8 50.8#



#33

1,2-Dichloroethane-d4

Concen: 55.589 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011707.D

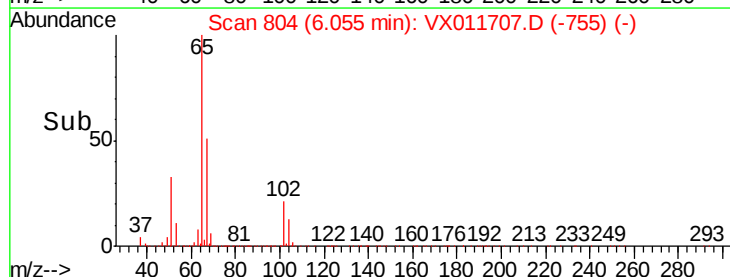
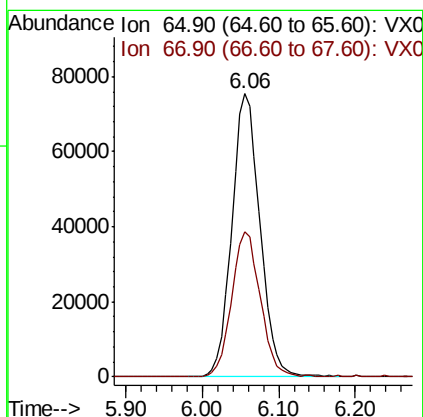
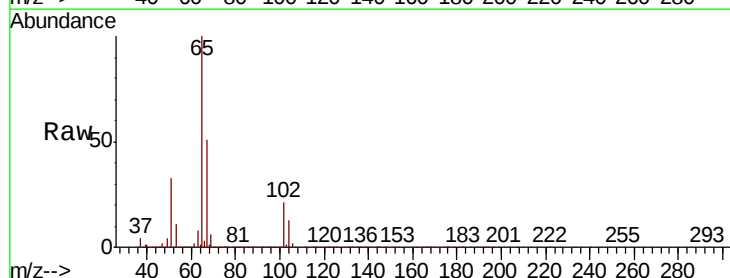
Acq: 21 Aug 2019 00:48

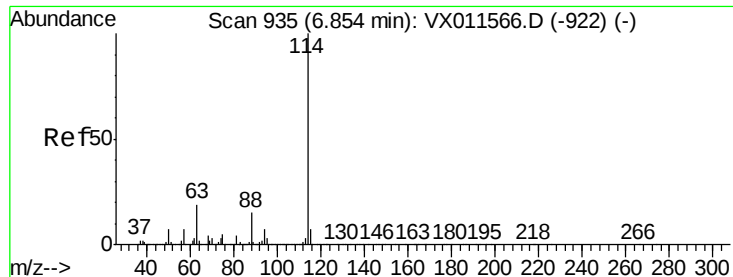
Tgt Ion: 65 Resp: 192724

Ion Ratio Lower Upper

65 100

67 51.6 0.0 107.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Instrument :

MSVOA_X

ClientSampled :

T4-A2-(0)

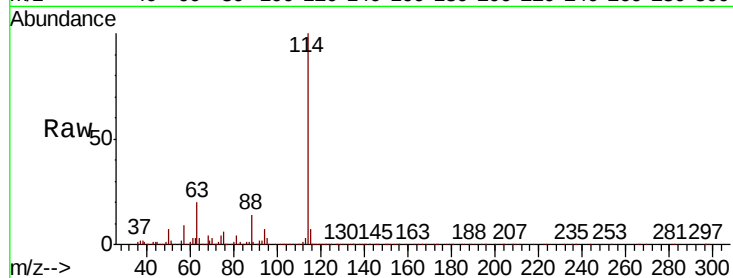
Tgt Ion:114 Resp: 493244

Ion Ratio Lower Upper

114 100

63 19.6 0.0 37.8

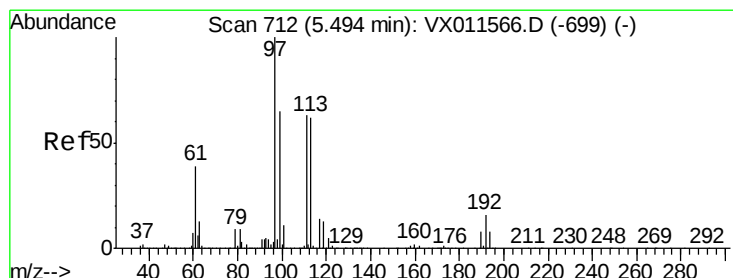
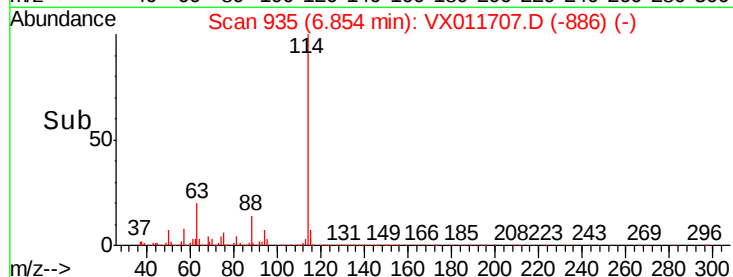
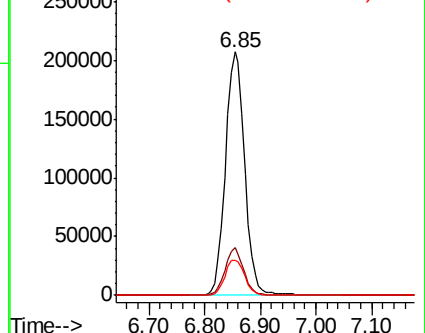
88 14.1 0.0 30.2



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: 49.198 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

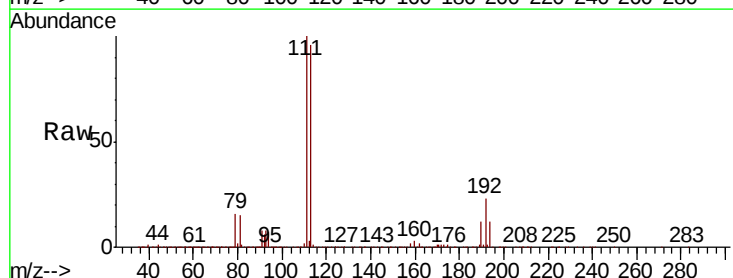
Tgt Ion:113 Resp: 158718

Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

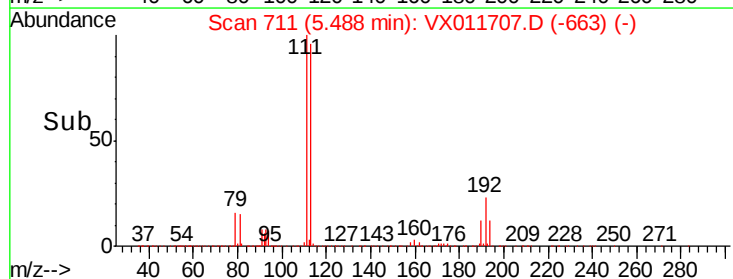
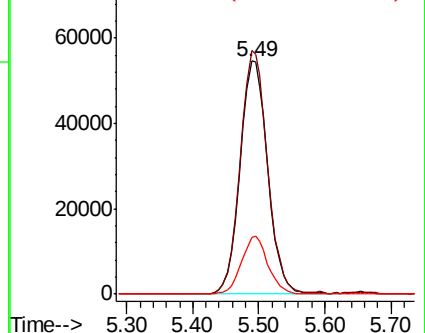
192 23.8 20.8 31.2

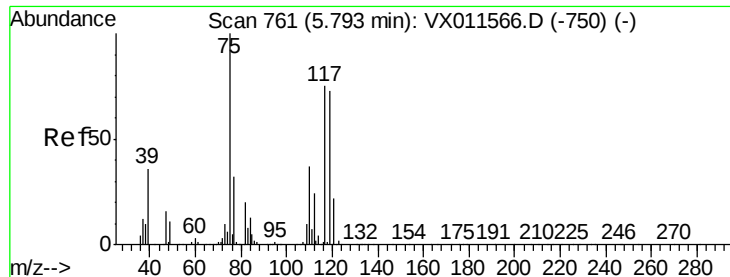


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.290 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Instrument :

MSVOA_X

ClientSampleId :

T4-A2-(0)

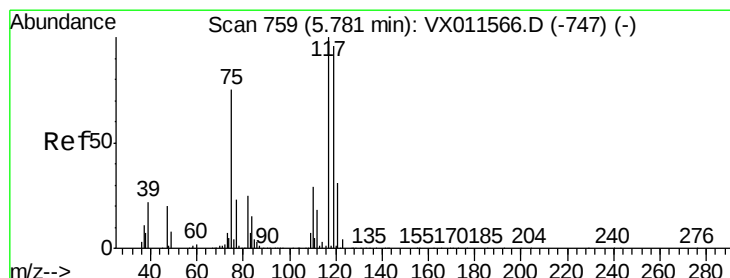
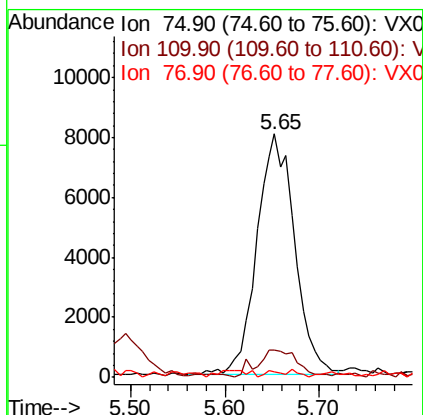
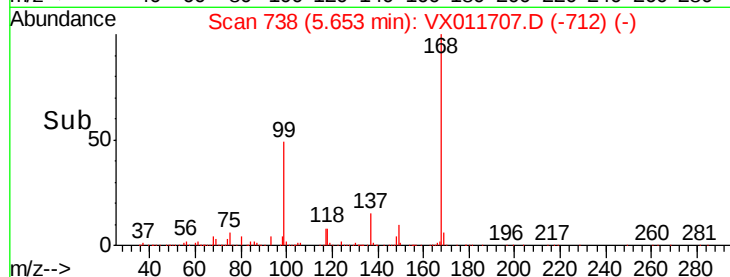
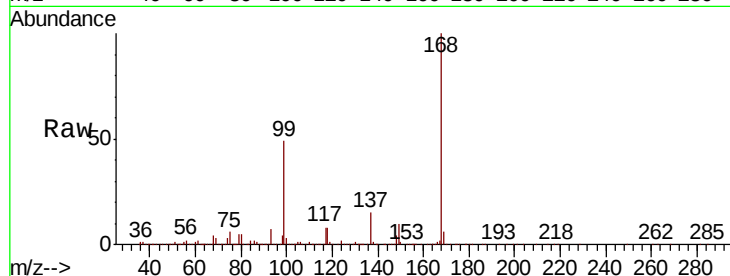
Tgt Ion: 75 Resp: 22307

Ion Ratio Lower Upper

75 100

110 10.4 19.4 58.1#

77 1.3 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.828 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

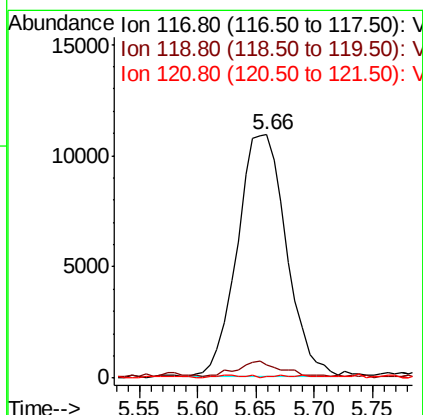
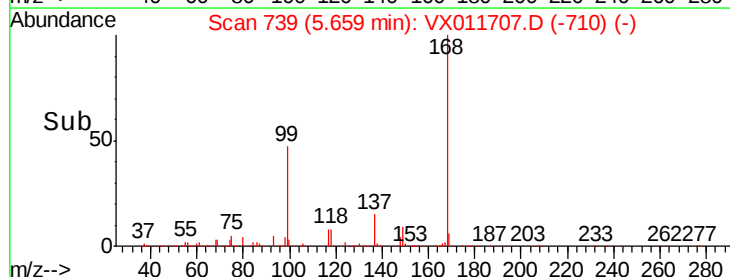
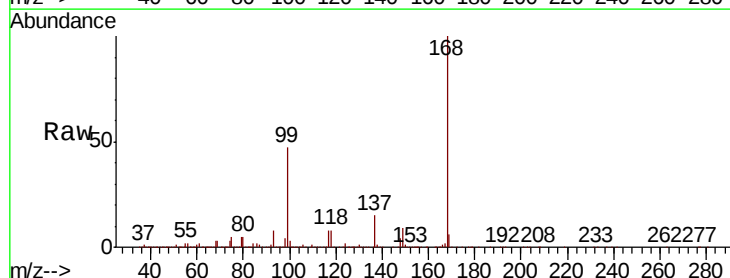
Tgt Ion: 117 Resp: 31724

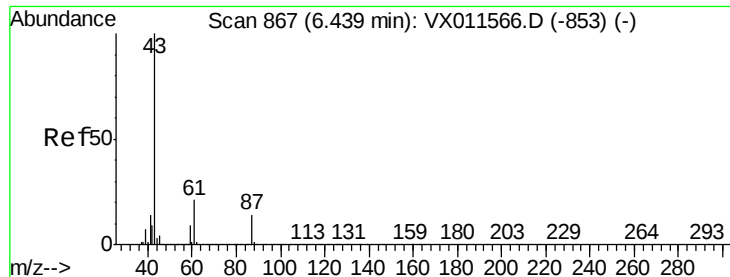
Ion Ratio Lower Upper

117 100

119 4.2 76.9 115.3#

121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 7.686 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Instrument :

MSVOA_X

ClientSampleId :

T4-A2-(0)

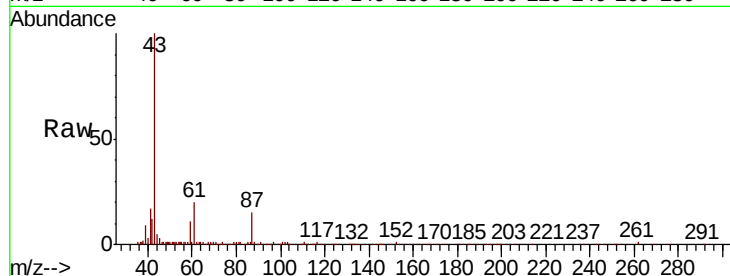
Tgt Ion: 43 Resp: 58183

Ion Ratio Lower Upper

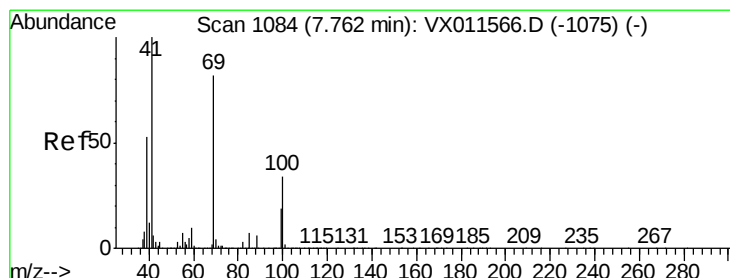
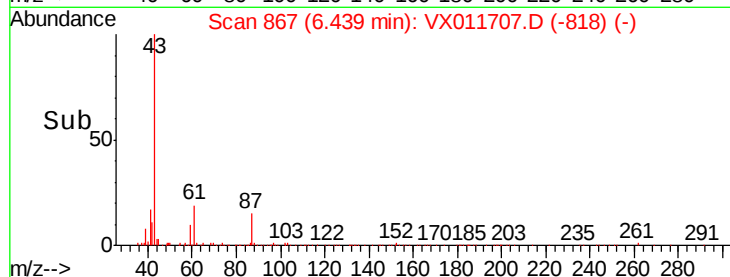
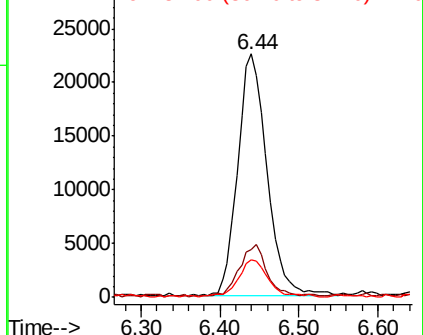
43 100

61 19.6 16.6 24.8

87 14.7 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 27.336 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.11 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

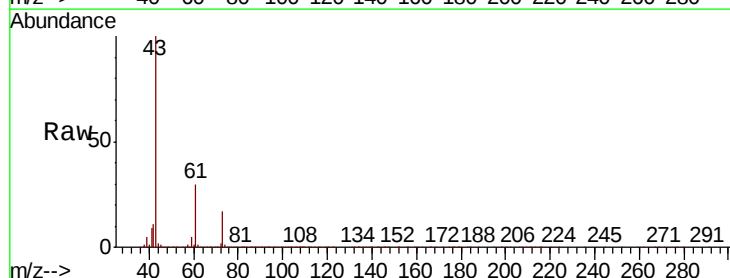
Tgt Ion: 41 Resp: 102476

Ion Ratio Lower Upper

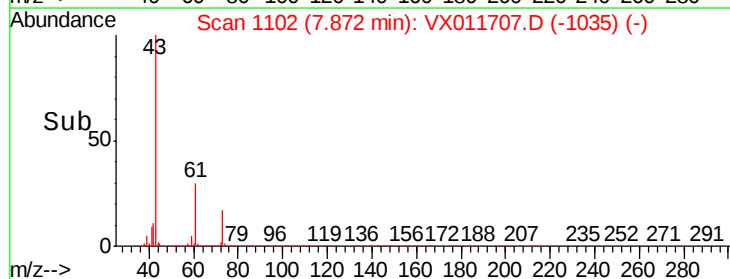
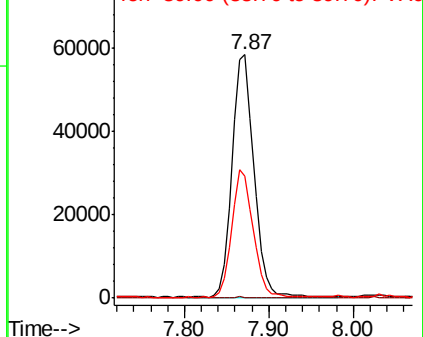
41 100

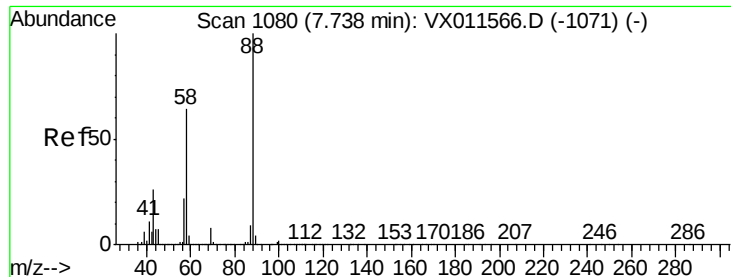
69 0.3 67.9 101.9#

39 51.4 41.6 62.4



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

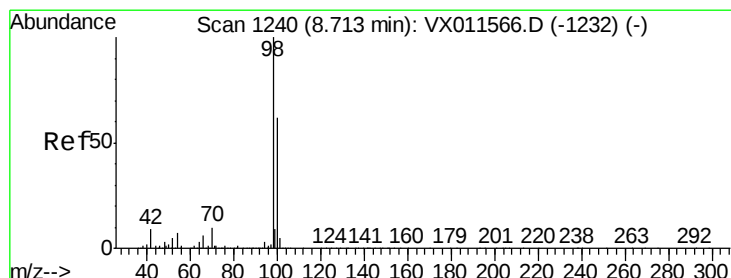
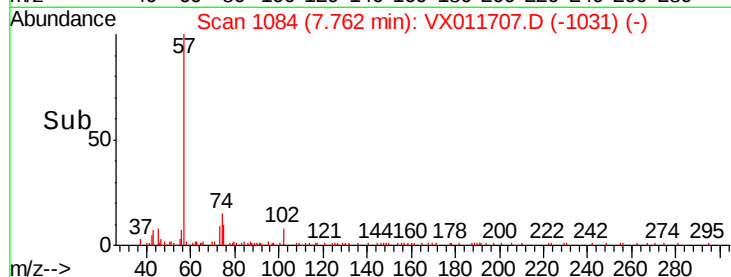
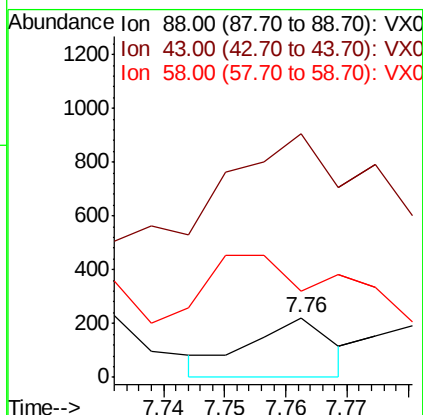
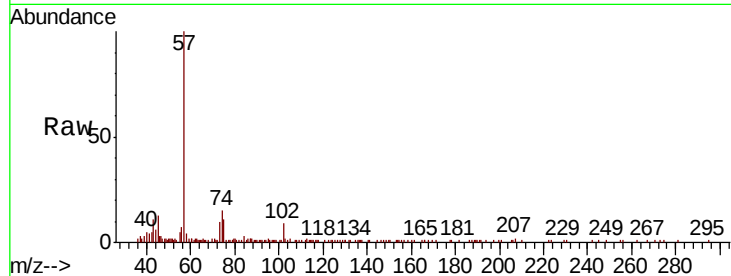




#49
1,4-Dioxane
Concen: 2.086 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

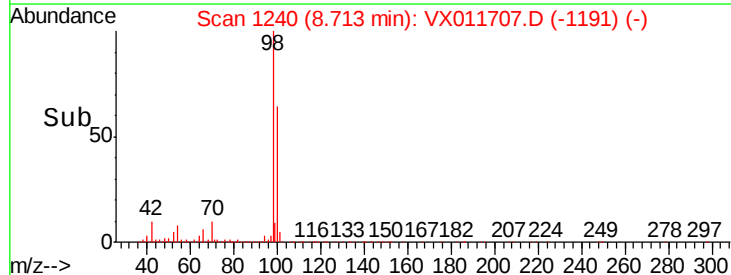
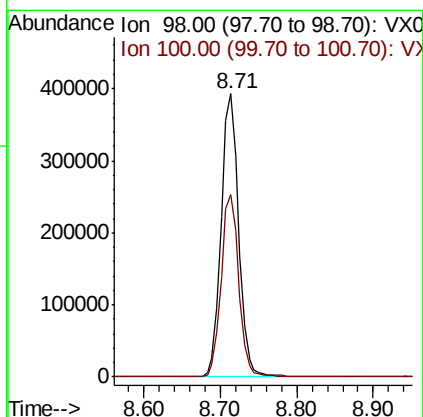
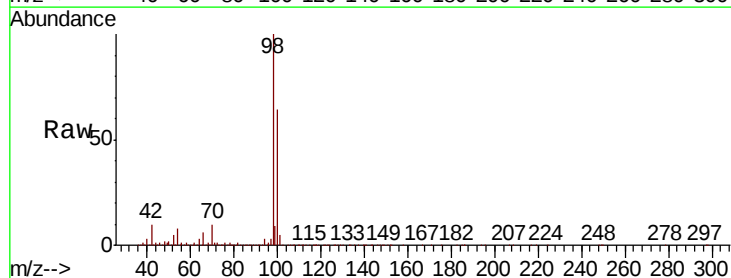
Instrument :
MSVOA_X
ClientSampled :
T4-A2-(0)

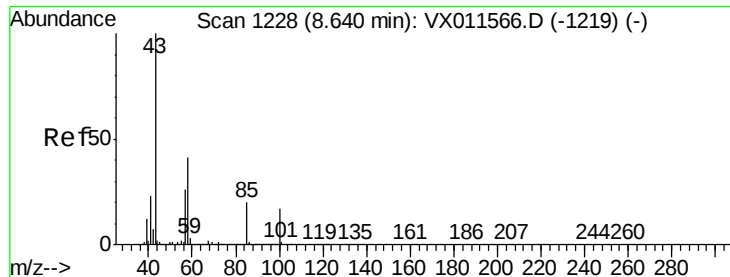
Tgt Ion: 88 Resp: 208
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.0#
58 494.2 54.3 81.5#



#50
Toluene-d8
Concen: 61.928 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

Tgt Ion: 98 Resp: 622509
Ion Ratio Lower Upper
98 100
100 64.5 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 11.442 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Instrument :

MSVOA_X

ClientSampleId :

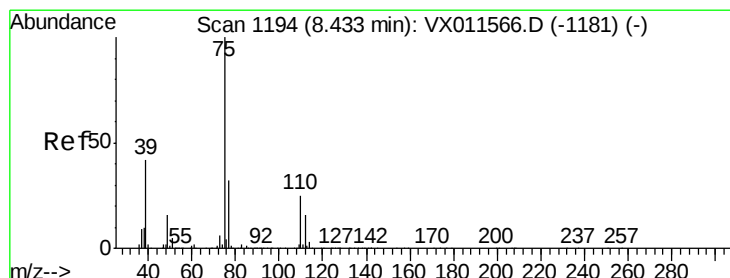
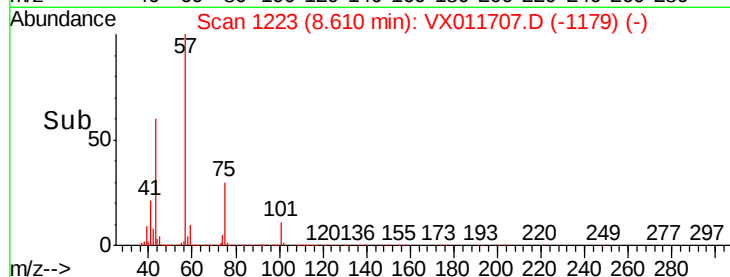
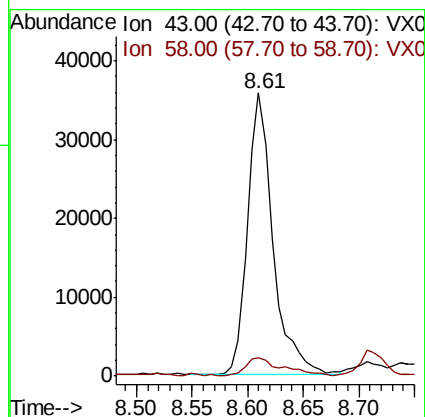
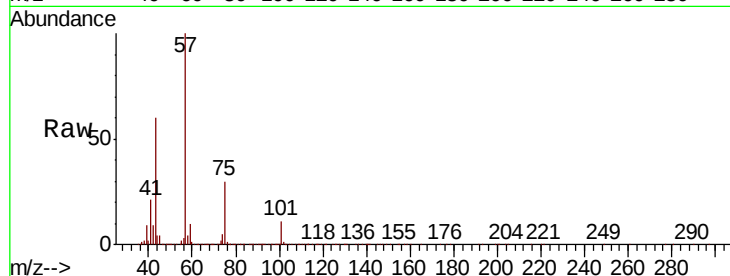
T4-A2-(0)

Tgt Ion: 43 Resp: 56691

Ion Ratio Lower Upper

43 100

58 9.1 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 5.456 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

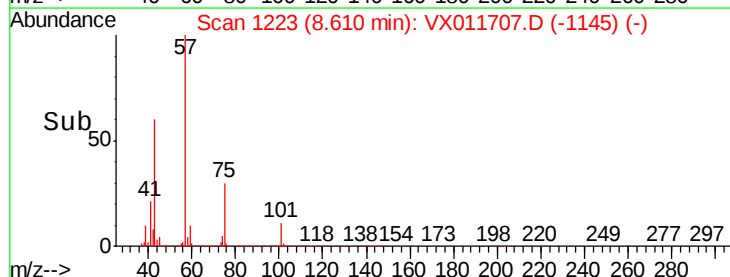
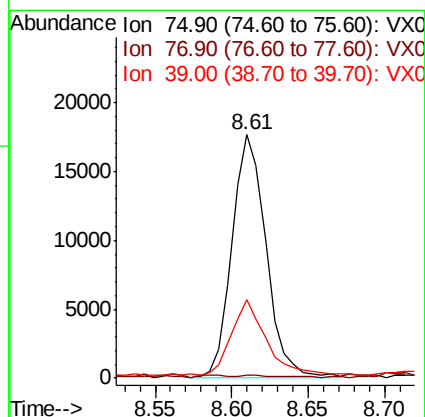
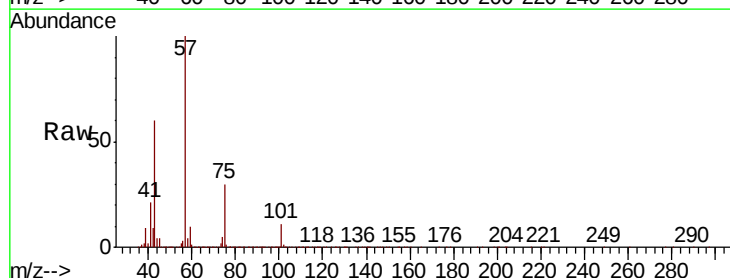
Tgt Ion: 75 Resp: 27025

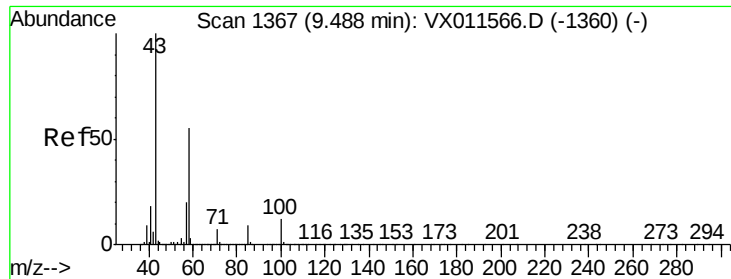
Ion Ratio Lower Upper

75 100

77 1.4 25.5 38.3#

39 30.6 33.6 50.4#

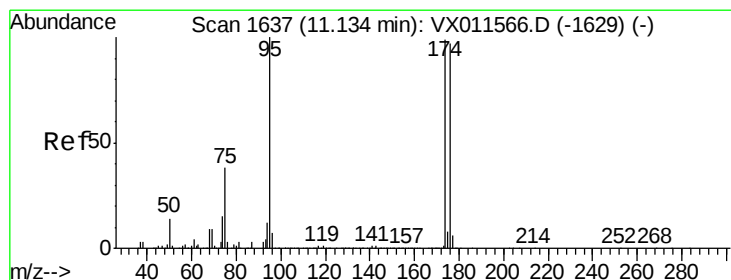
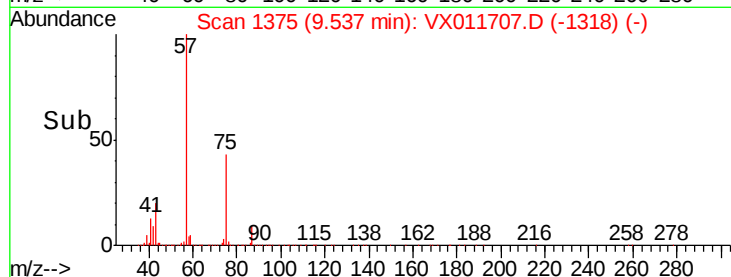
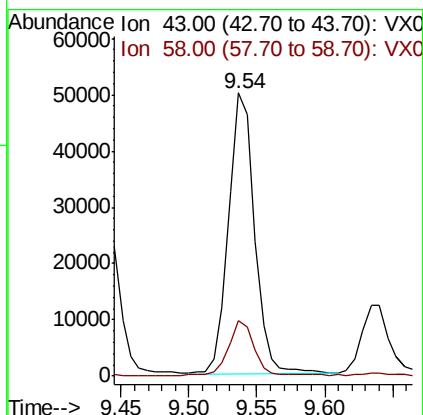
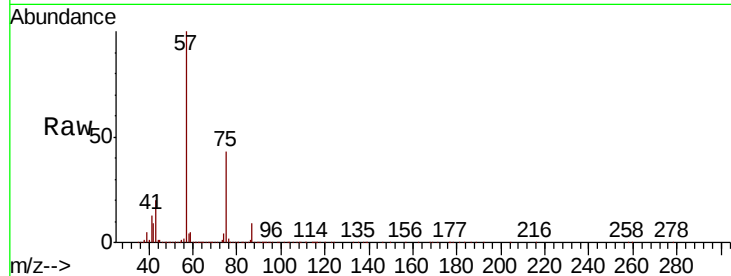




#59
2-Hexanone
Concen: 17.445 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

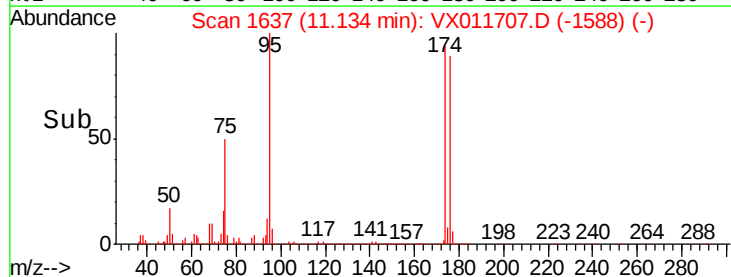
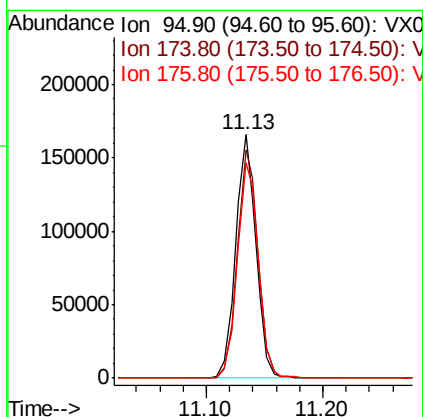
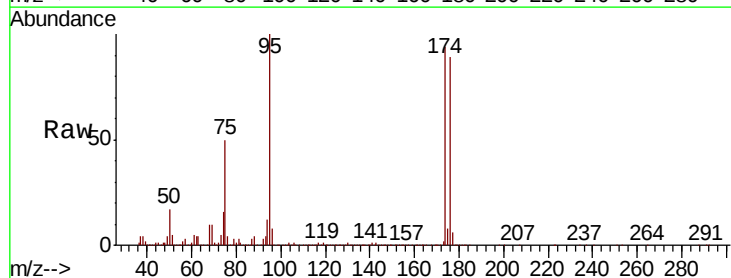
Instrument :
MSVOA_X
ClientSampleId :
T4-A2-(0)

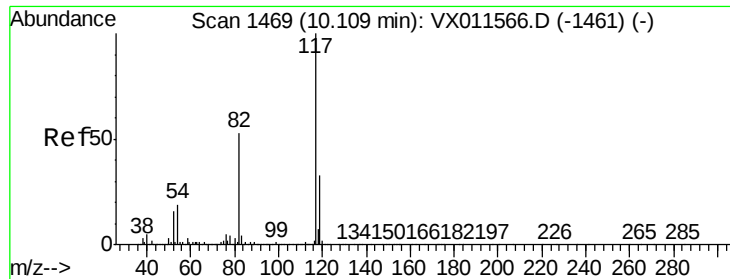
Tgt Ion: 43 Resp: 66656
Ion Ratio Lower Upper
43 100
58 19.3 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 47.533 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

Tgt Ion: 95 Resp: 201676
Ion Ratio Lower Upper
95 100
174 95.6 0.0 200.6
176 91.4 0.0 196.6

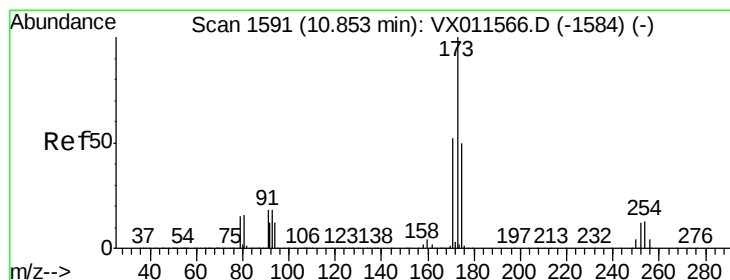
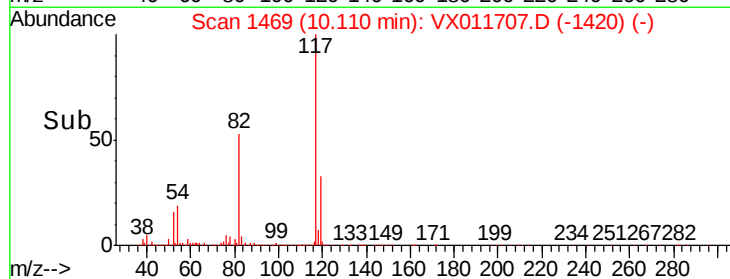
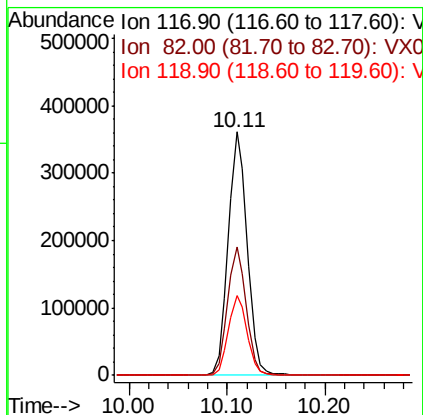
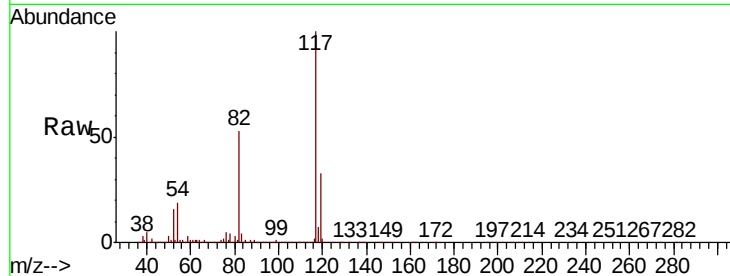




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

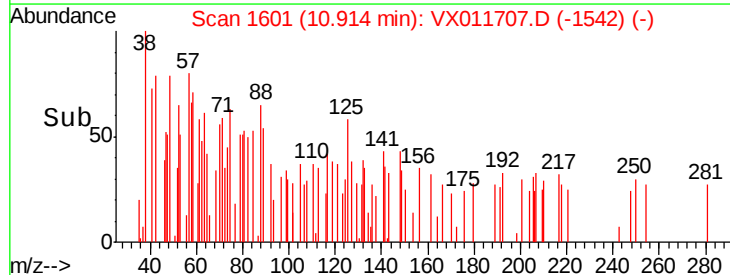
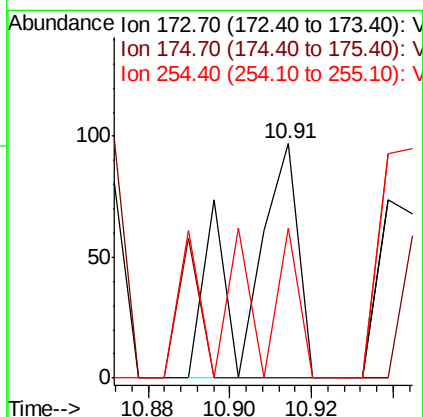
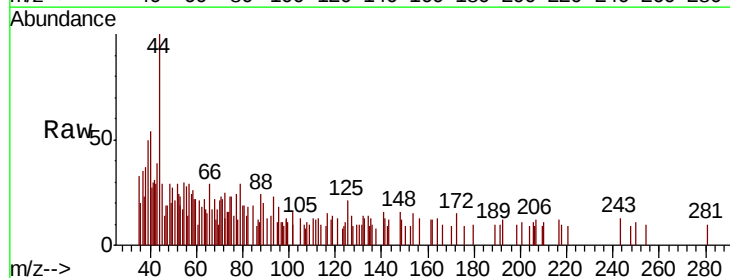
Instrument :
MSVOA_X
ClientSampleId :
T4-A2-(0)

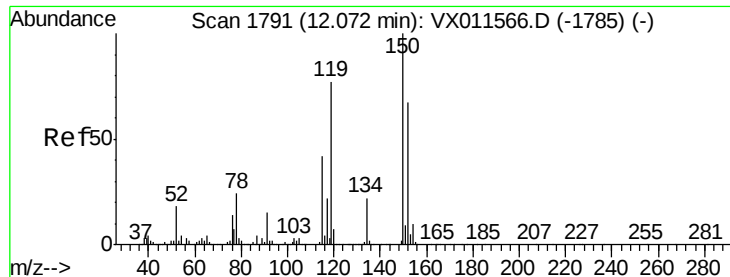
Tgt Ion:117 Resp: 485577
Ion Ratio Lower Upper
117 100
82 52.6 42.0 63.0
119 32.6 26.5 39.7



#71
Bromoform
Concen: 3.313 ug/l
RT: 10.91 min Scan# 1601
Delta R.T. 0.06 min
Lab File: VX011707.D
Acq: 21 Aug 2019 00:48

Tgt Ion:173 Resp: 85
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.7#
254 52.9 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Instrument :

MSVOA_X

ClientSampleId :

T4-A2-(0)

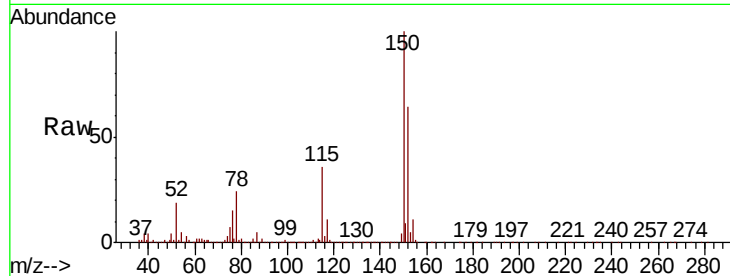
Tgt Ion:152 Resp: 216729

Ion Ratio Lower Upper

152 100

115 55.3 37.3 111.9

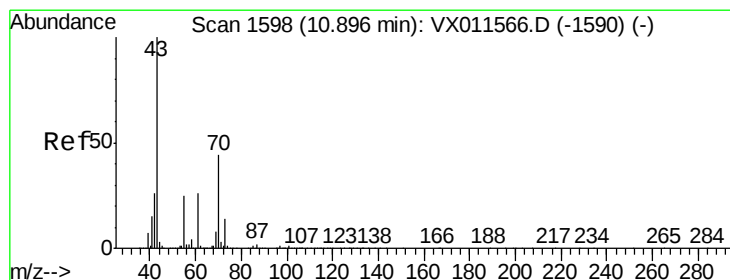
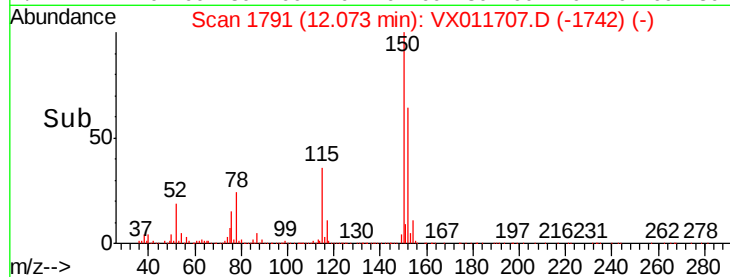
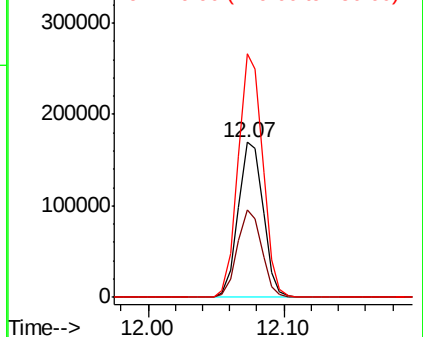
150 154.8 0.0 346.2



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



#74

N-ethyl acetate

Concen: 0.499 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Tgt Ion: 43 Resp: 2980

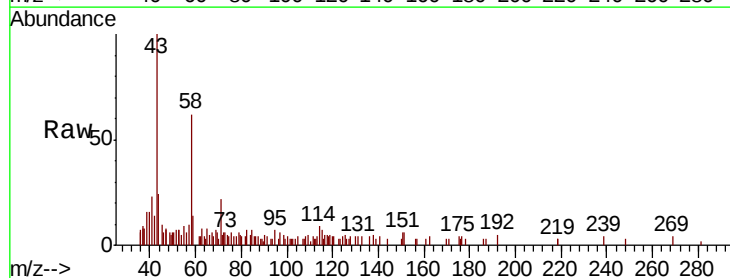
Ion Ratio Lower Upper

43 100

70 8.0 34.7 52.1#

55 0.0 19.6 29.4#

61 0.0 19.9 29.9#

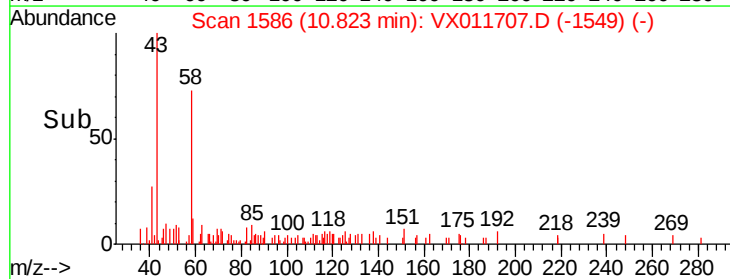
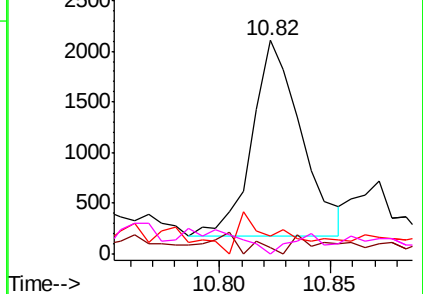


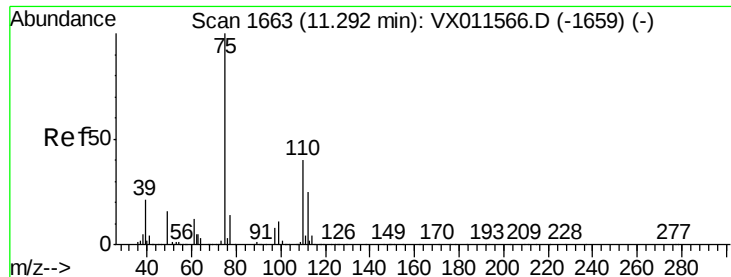
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.179 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Instrument :

MSVOA_X

ClientSampleId :

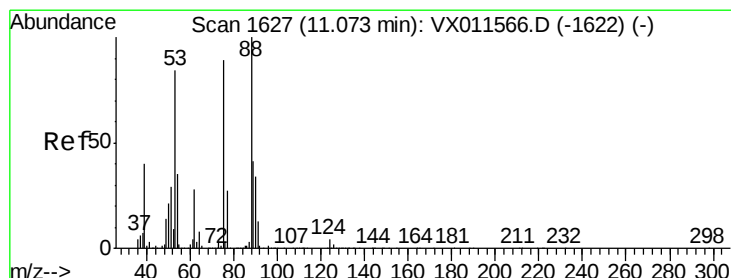
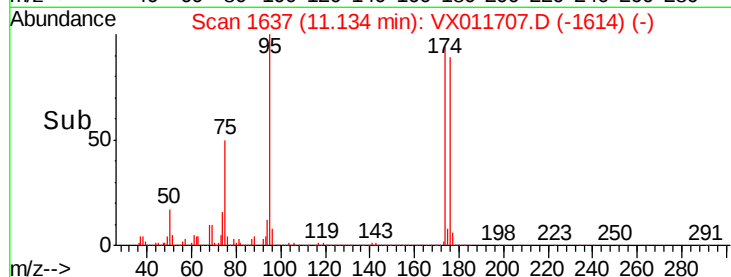
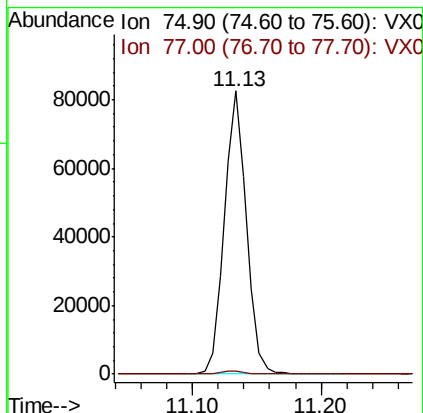
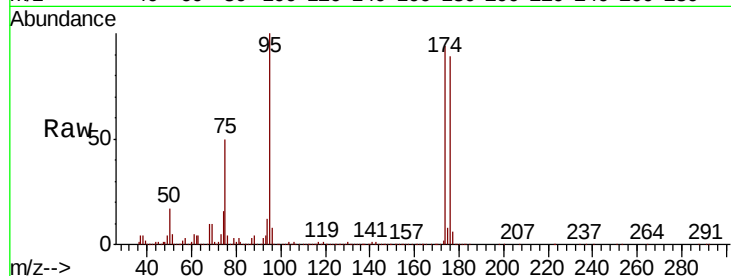
T4-A2-(0)

Tgt Ion: 75 Resp: 99370

Ion Ratio Lower Upper

75 100

77 1.5 20.9 62.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.110 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011707.D

Acq: 21 Aug 2019 00:48

Tgt Ion: 75 Resp: 99370

Ion Ratio Lower Upper

75 100

53 0.3 77.4 116.0#

89 0.1 37.3 55.9#

