

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082019\
 Data File : VX011713.D
 Acq On : 21 Aug 2019 03:10
 Operator : JC/SP
 Sample : K4387-37
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-A4-(2)

Quant Time: Aug 21 05:31:25 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	372422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	523838	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	481599	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	234096	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	188253	54.51	ug/l	0.00
Spiked Amount			Recovery	=	109.02%	
35) Dibromofluoromethane	5.49	113	159232	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	
50) Toluene-d8	8.71	98	605016	56.67	ug/l	0.00
Spiked Amount			Recovery	=	113.34%	
62) 4-Bromofluorobenzene	11.13	95	213786	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	

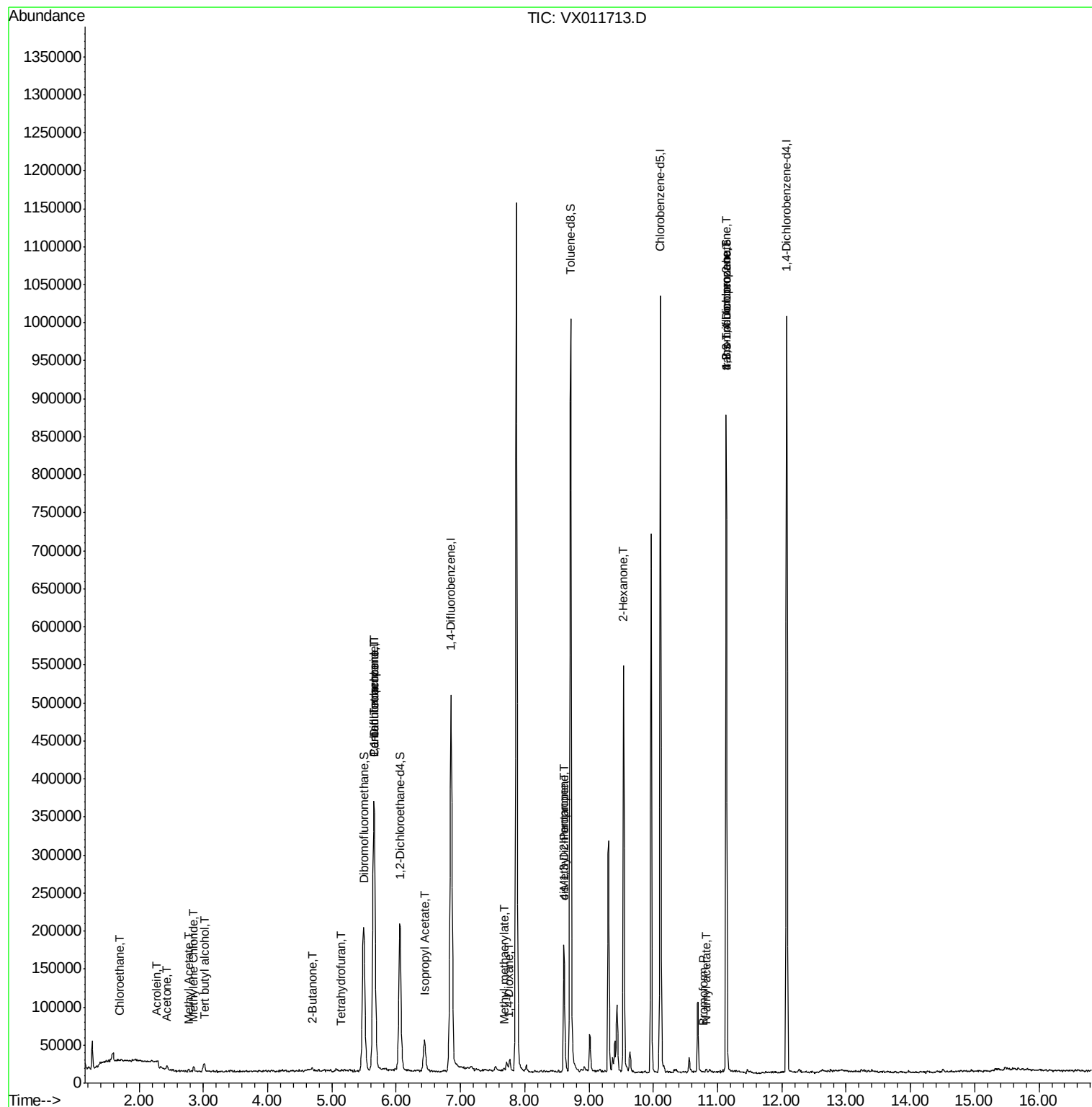
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	812	0.500	ug/l #	82
11) Tert butyl alcohol	3.01	59	6660	7.860	ug/l #	84
13) Acrolein	2.27	56	208	12.943	ug/l #	1
16) Acetone	2.44	43	7002	4.032	ug/l #	85
18) Methyl Acetate	2.77	43	3971	0.737	ug/l #	83
20) Methylene Chloride	2.85	84	3111	0.853	ug/l #	89
25) 2-Butanone	4.68	43	1192	0.437	ug/l #	74
29) Tetrahydrofuran	5.13	42	759	0.424	ug/l #	44
36) 1,1-Dichloropropene	5.65	75	21943	4.899	ug/l #	46
38) Carbon Tetrachloride	5.65	117	33577	6.805	ug/l #	16
43) Isopropyl Acetate	6.44	43	57372	7.136	ug/l	98
48) Methyl methacrylate	7.68	41	3886	0.976	ug/l #	16
49) 1,4-Dioxane	7.75	88	110	1.039	ug/l #	25
51) 4-Methyl-2-Pentanone	8.61	43	55582	10.563	ug/l #	52
54) cis-1,3-Dichloropropene	8.61	75	26096	4.961	ug/l #	65
59) 2-Hexanone	9.54	43	64356	15.859	ug/l #	50
71) Bromoform	10.78	173	147	3.328	ug/l #	28
74) N-amyl acetate	10.82	43	2788	0.432	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	102413	23.071	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	102413	61.377	ug/l #	11

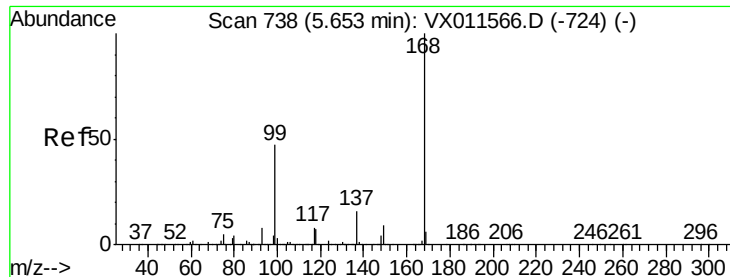
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX011713.D

Acq: 21 Aug 2019 03:10

Instrument :

MSVOA_X

ClientSampled :

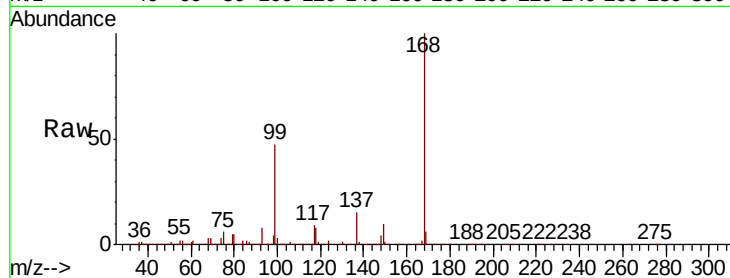
T4-A4-(2)

Tgt Ion:168 Resp: 372422

Ion Ratio Lower Upper

168 100

99 47.2 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

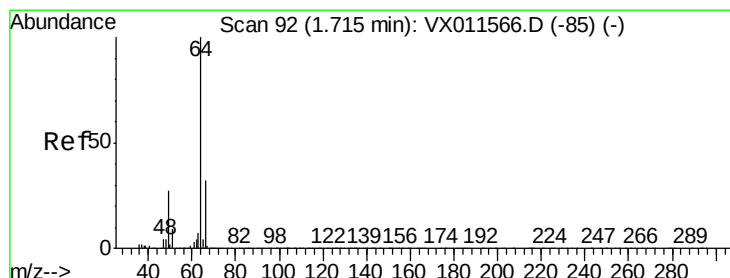
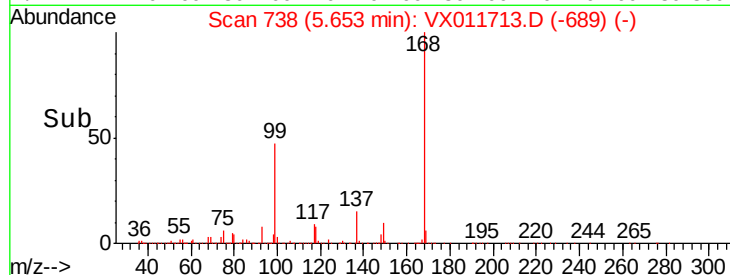
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.500 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX011713.D

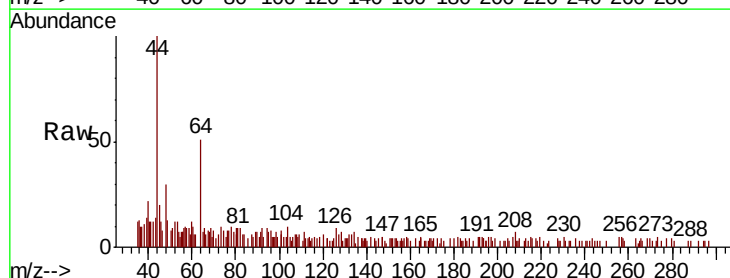
Acq: 21 Aug 2019 03:10

Tgt Ion: 64 Resp: 812

Ion Ratio Lower Upper

64 100

66 21.7 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

1200

1000

800

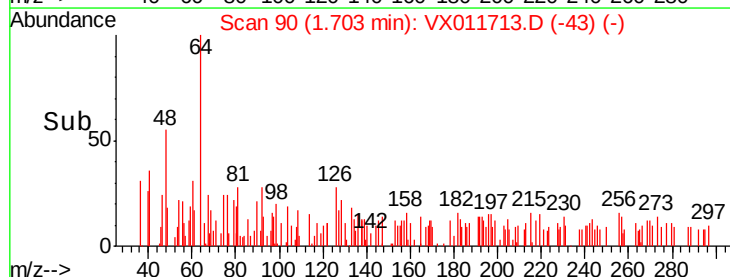
600

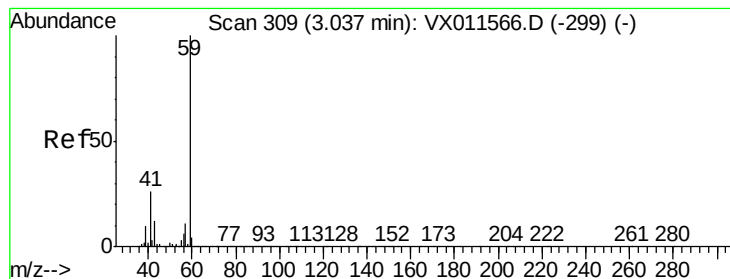
400

200

0

Time-->



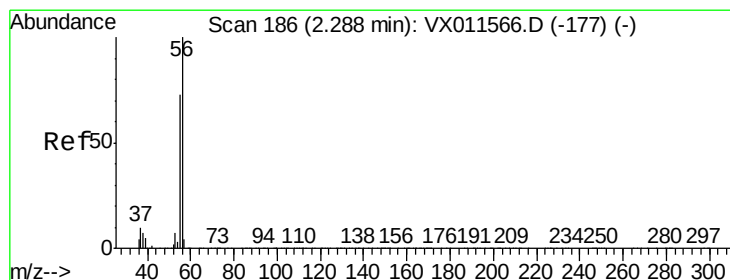
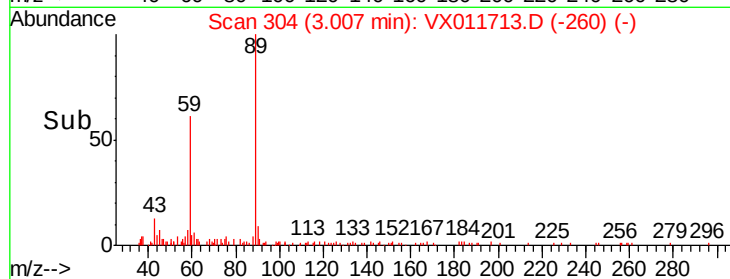
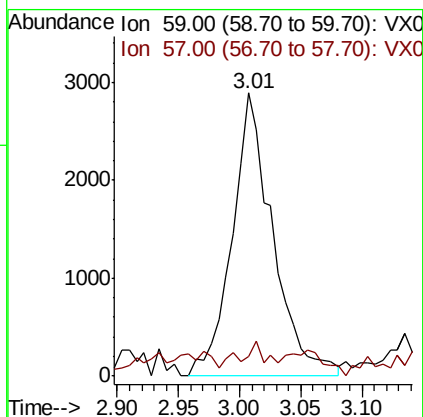
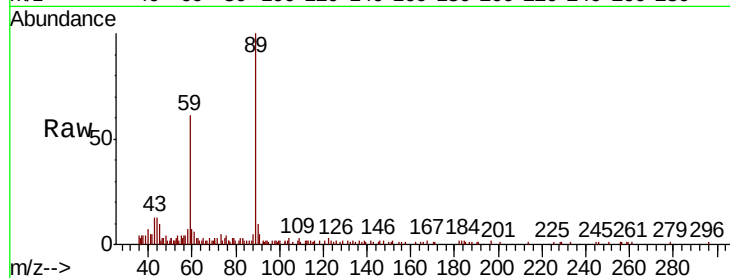


#11

Tert butyl alcohol
 Concen: 7.860 ug/l
 RT: 3.01 min Scan# 304
 Delta R.T. -0.03 min
 Lab File: VX011713.D
 Acq: 21 Aug 2019 03:10

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-A4-(2)

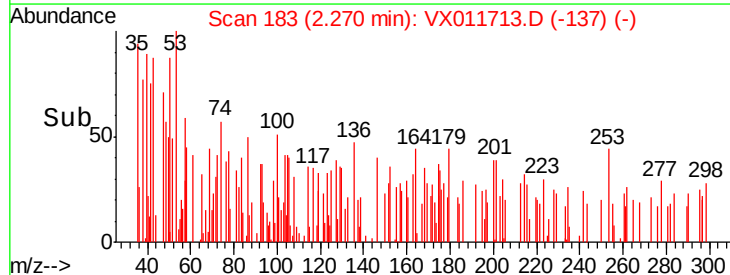
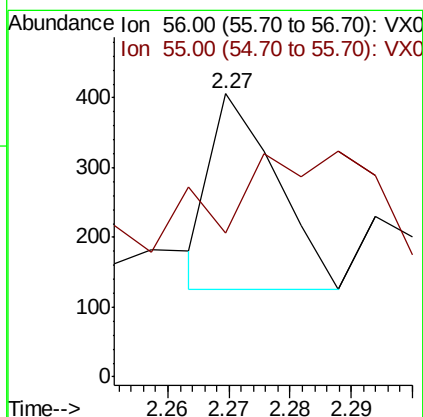
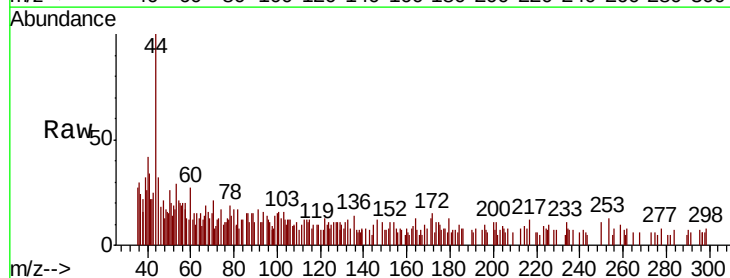
Tgt Ion: 59 Resp: 6660
 Ion Ratio Lower Upper
 59 100
 57 5.0 8.7 13.1#

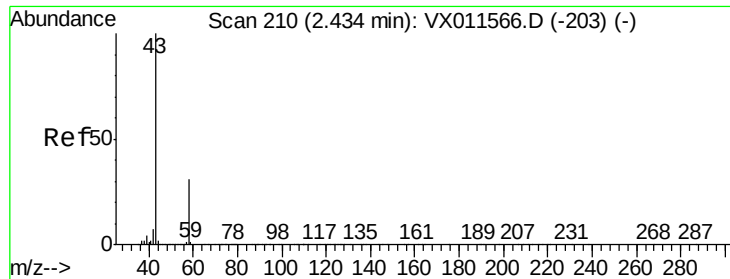


#13

Acrolein
 Concen: 12.943 ug/l
 RT: 2.27 min Scan# 183
 Delta R.T. -0.02 min
 Lab File: VX011713.D
 Acq: 21 Aug 2019 03:10

Tgt Ion: 56 Resp: 208
 Ion Ratio Lower Upper
 56 100
 55 184.1 55.5 83.3#

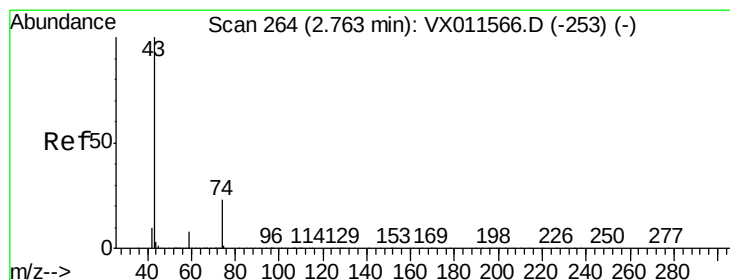
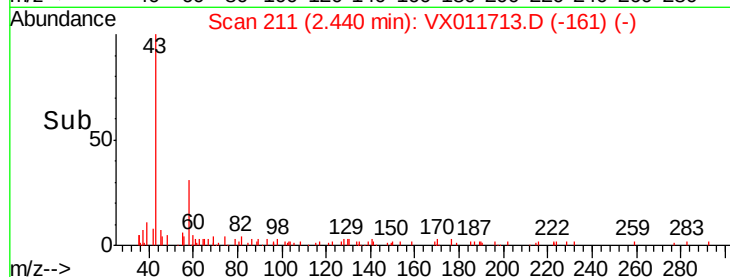
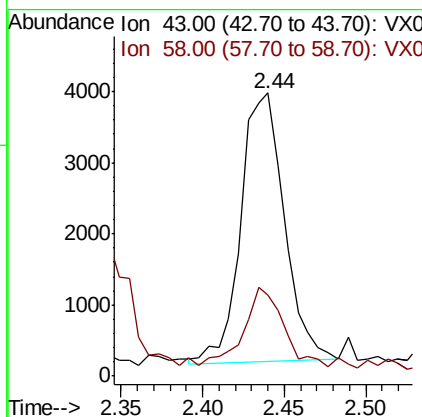
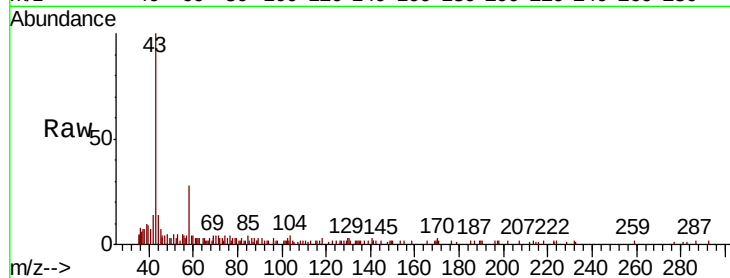




#16
Acetone
Concen: 4.032 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.01 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

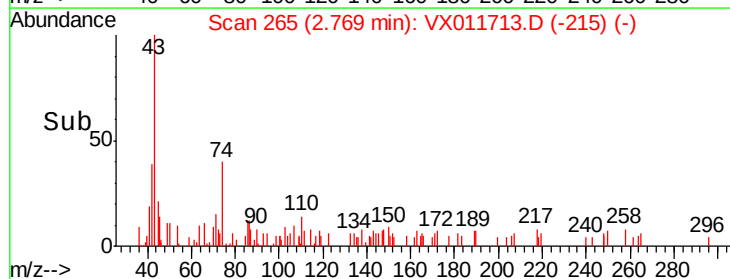
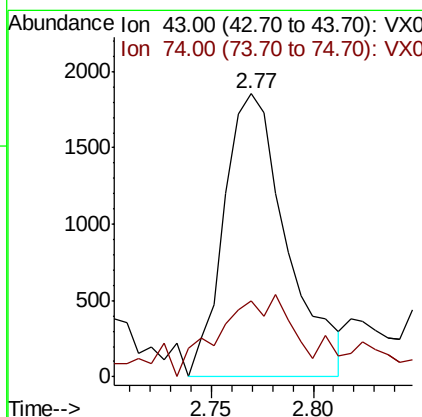
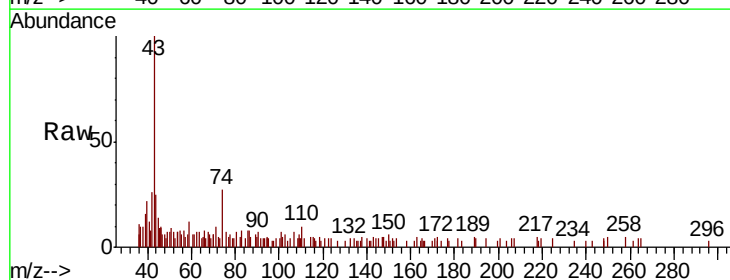
Instrument :
MSVOA_X
ClientSampleId :
T4-A4-(2)

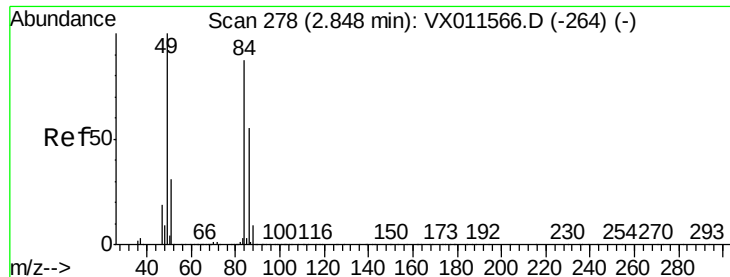
Tgt Ion: 43 Resp: 7002
Ion Ratio Lower Upper
43 100
58 23.3 25.2 37.8#



#18
Methyl Acetate
Concen: 0.737 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

Tgt Ion: 43 Resp: 3971
Ion Ratio Lower Upper
43 100
74 33.1 19.7 29.5#

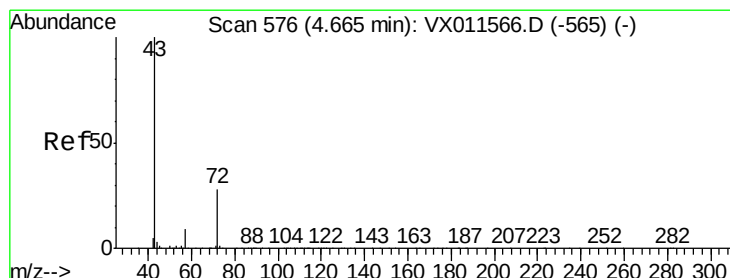
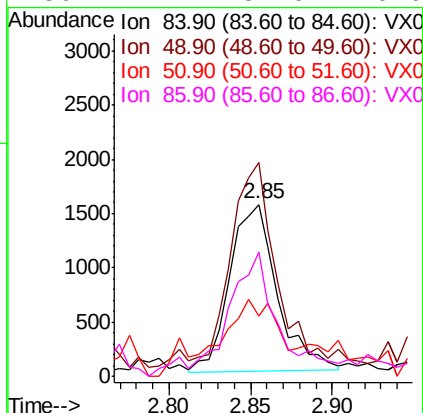
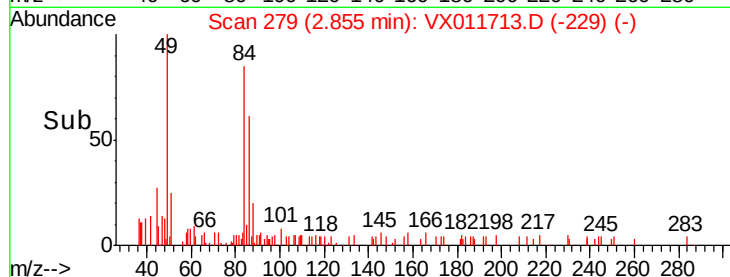
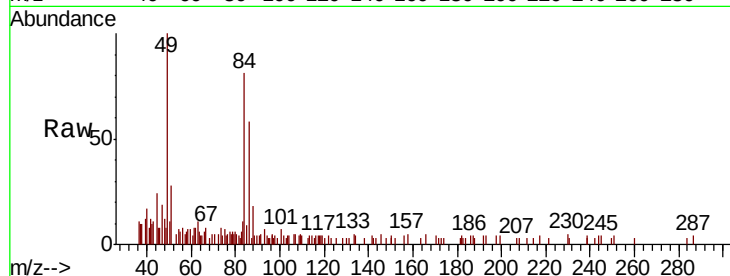




#20
Methylene Chloride
Concen: 0.853 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

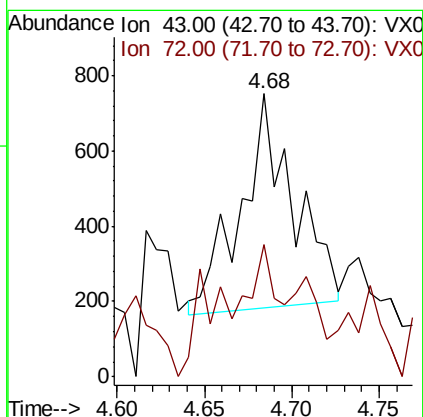
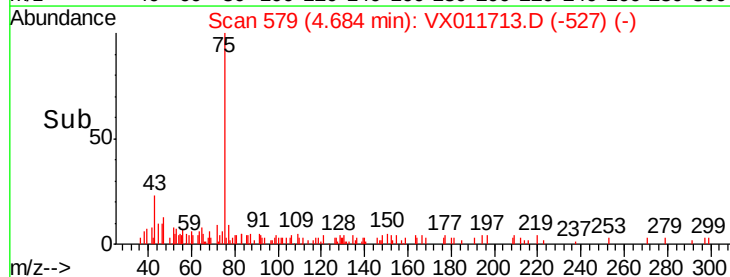
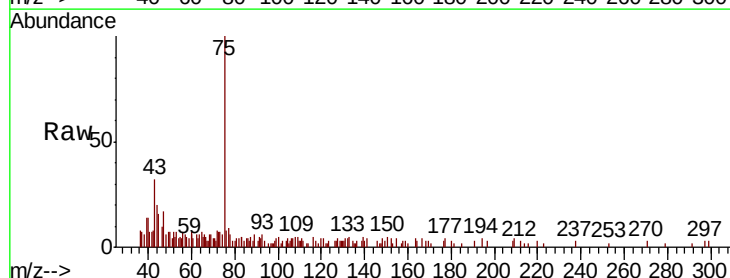
Instrument :
MSVOA_X
ClientSampleId :
T4-A4-(2)

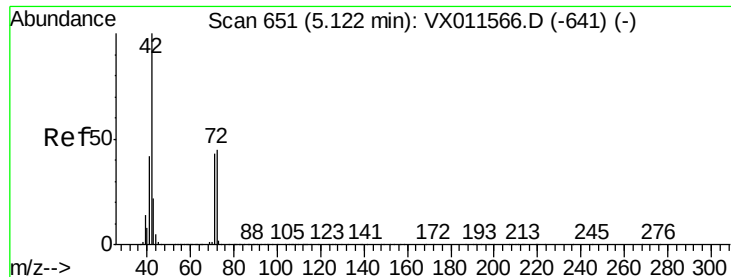
Tgt Ion:	84	Resp:	3111
Ion	Ratio	Lower	Upper
84	100		
49	119.7	92.4	138.6
51	15.3	28.5	42.7#
86	71.1	51.0	76.6



#25
2-Butanone
Concen: 0.437 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

Tgt Ion:	43	Resp:	1192
Ion	Ratio	Lower	Upper
43	100		
72	41.6	22.2	33.4#





#29

Tetrahydrofuran

Concen: 0.424 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

Instrument :

MSVOA_X

ClientSampled :

T4-A4-(2)

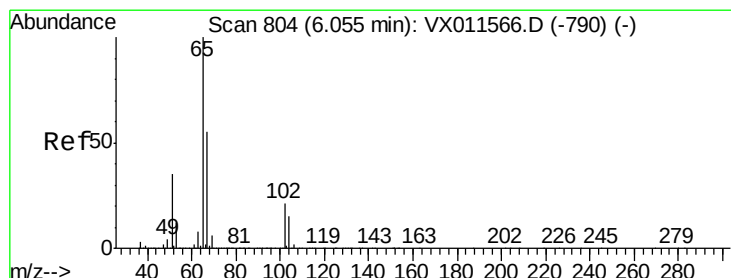
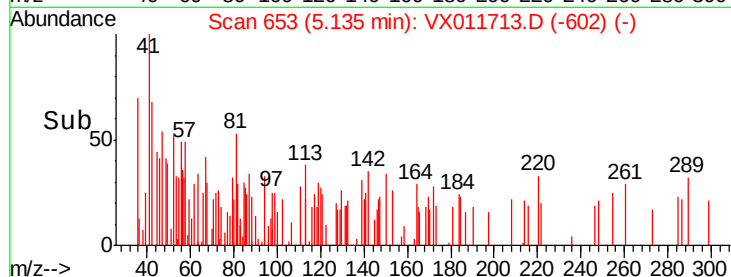
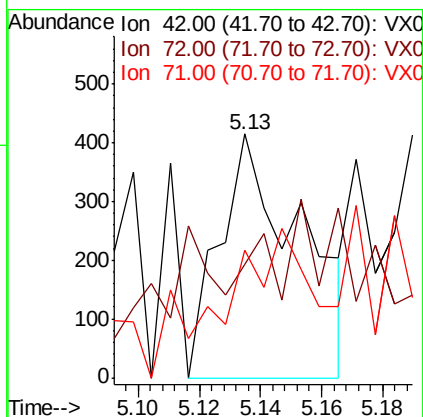
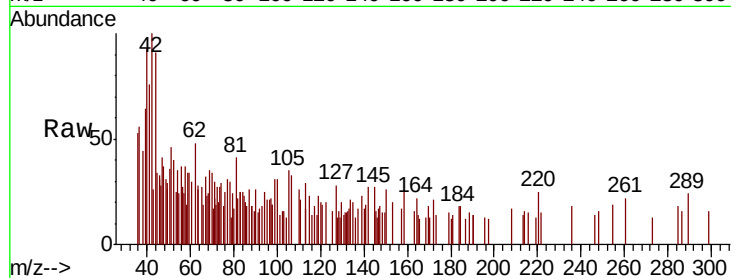
Tgt Ion: 42 Resp: 759

Ion Ratio Lower Upper

42 100

72 15.5 36.1 54.1#

71 0.0 33.8 50.8#



#33

1,2-Dichloroethane-d4

Concen: 54.508 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011713.D

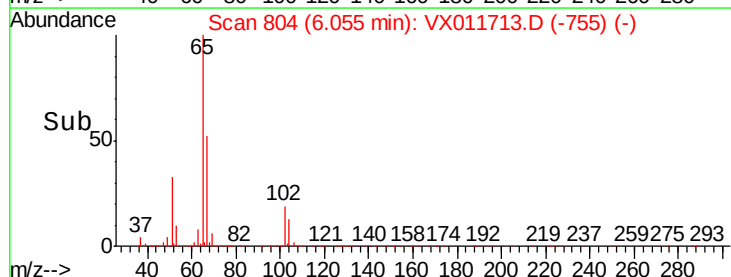
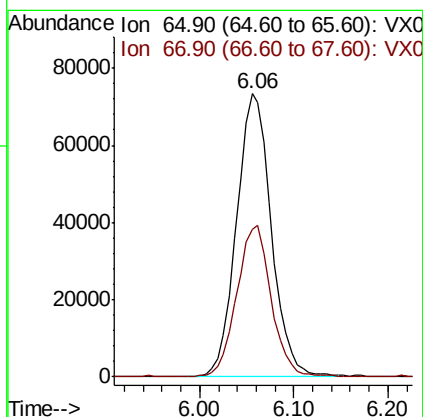
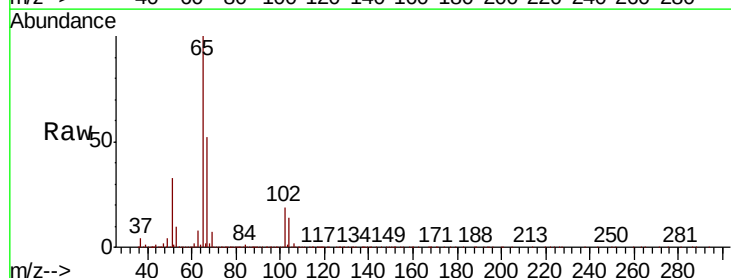
Acq: 21 Aug 2019 03:10

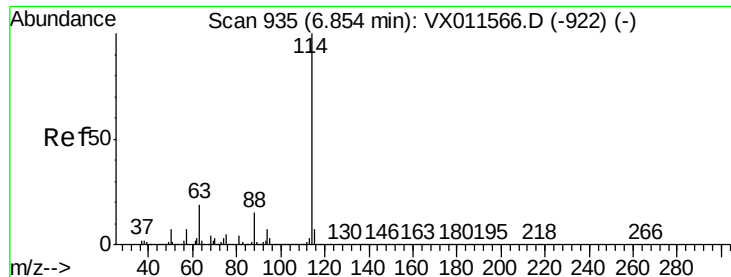
Tgt Ion: 65 Resp: 188253

Ion Ratio Lower Upper

65 100

67 53.0 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: VX011713.D

Acq: 21 Aug 2019 03:10

Instrument :

MSVOA_X

ClientSampleId :

T4-A4-(2)

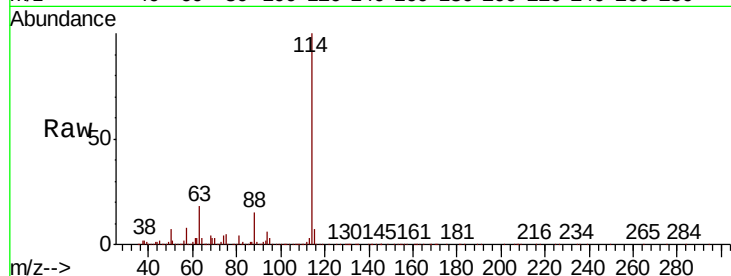
Tgt Ion:114 Resp: 523838

Ion Ratio Lower Upper

114 100

63 18.4 0.0 37.8

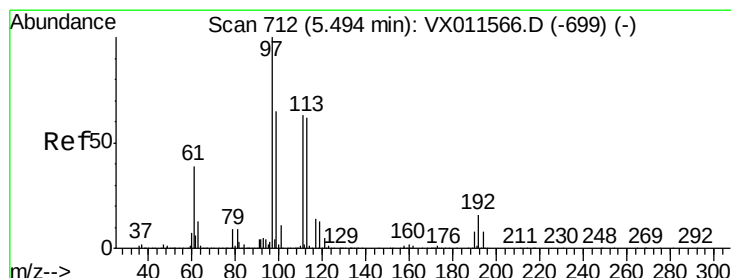
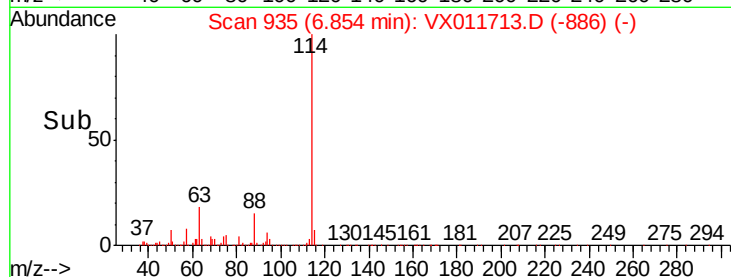
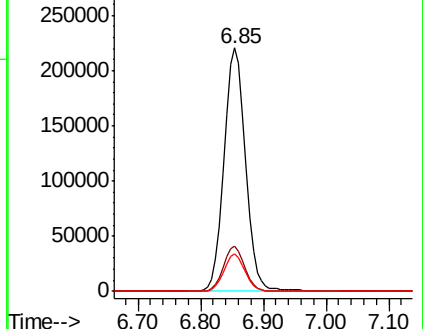
88 15.4 0.0 30.2



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: 46.474 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

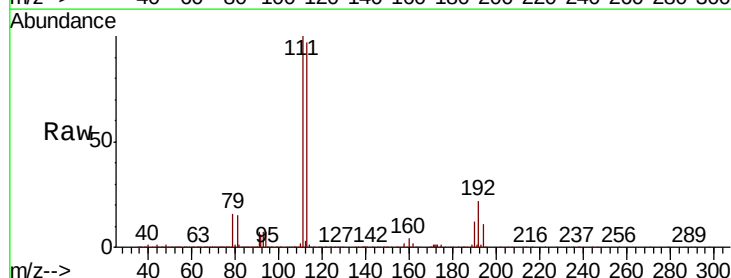
Tgt Ion:113 Resp: 159232

Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

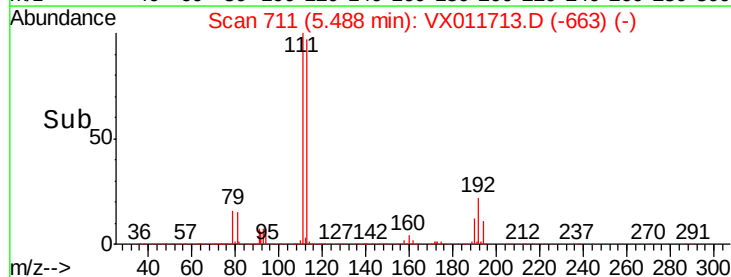
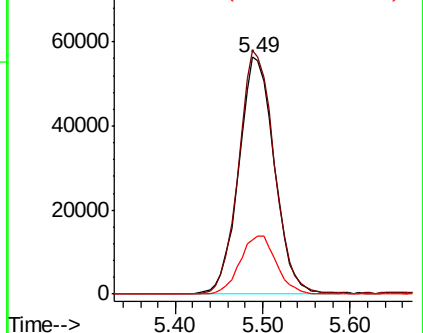
192 25.1 20.8 31.2

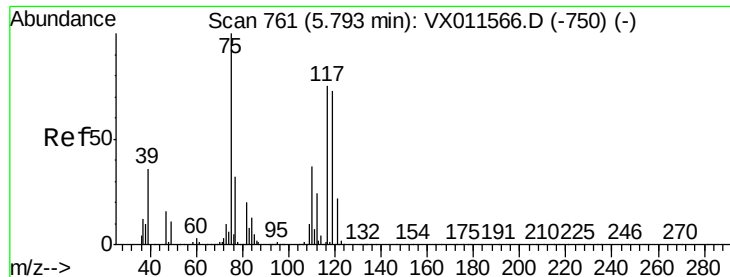


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.899 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

Instrument :

MSVOA_X

ClientSampled :

T4-A4-(2)

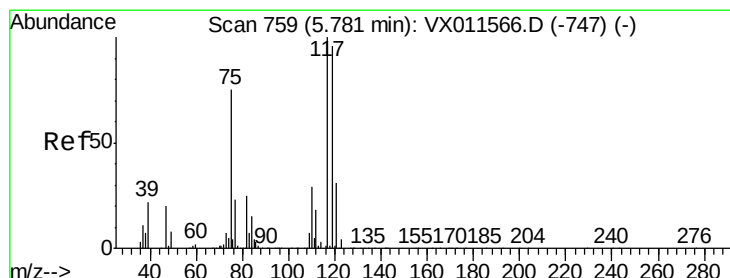
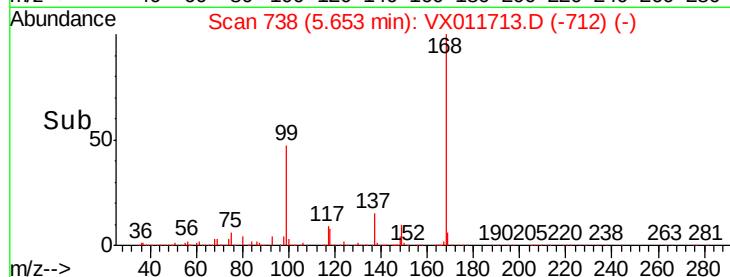
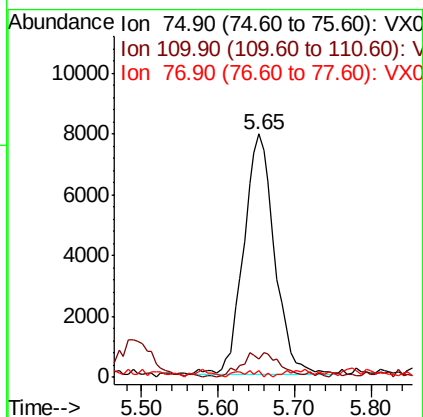
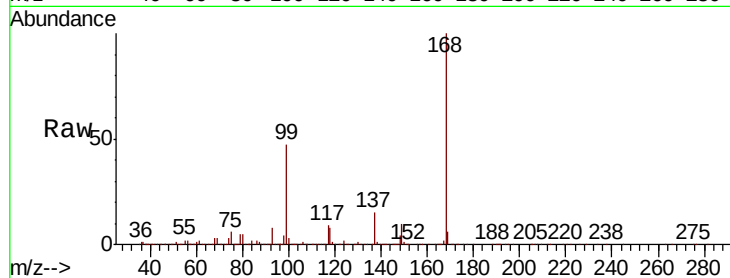
Tgt Ion: 75 Resp: 21943

Ion Ratio Lower Upper

75 100

110 6.2 19.4 58.1#

77 1.2 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.805 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

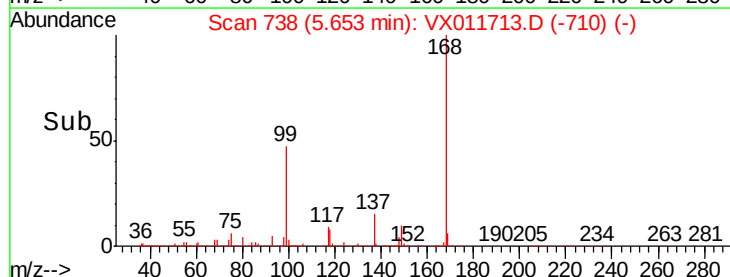
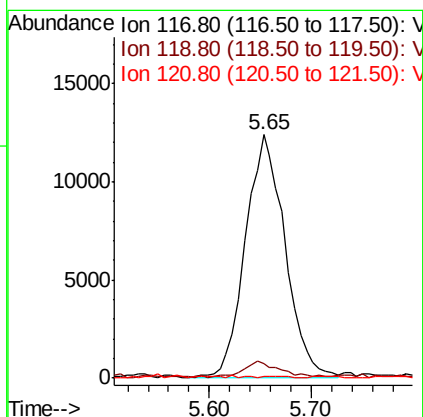
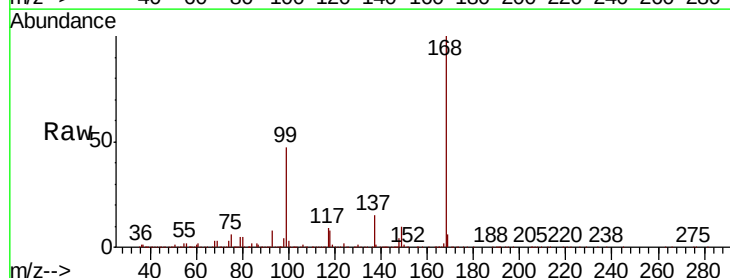
Tgt Ion: 117 Resp: 33577

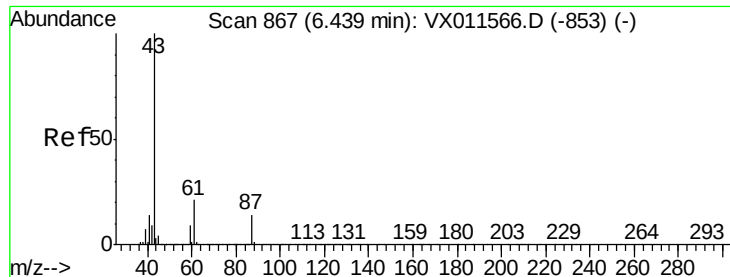
Ion Ratio Lower Upper

117 100

119 5.3 76.9 115.3#

121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 7.136 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

Instrument :

MSVOA_X

ClientSampleId :

T4-A4-(2)

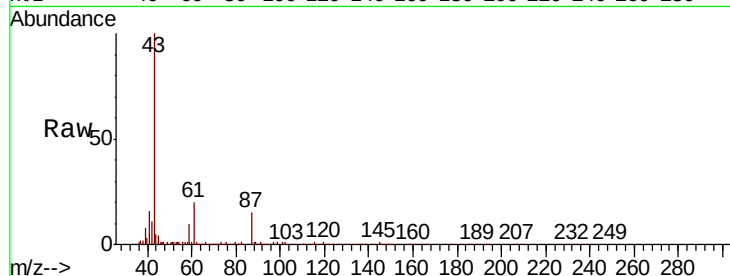
Tgt Ion: 43 Resp: 57372

Ion Ratio Lower Upper

43 100

61 19.5 16.6 24.8

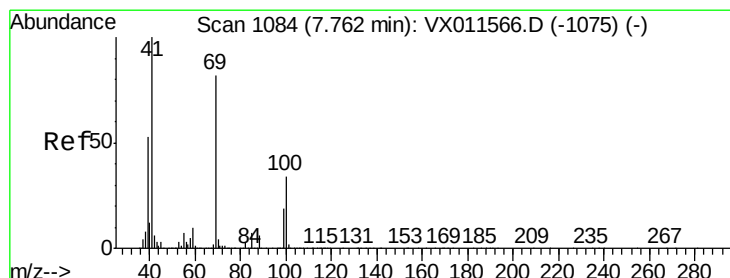
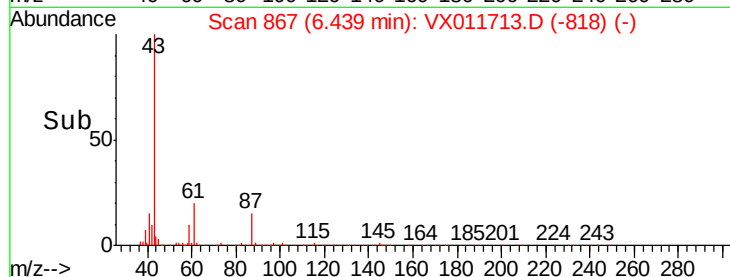
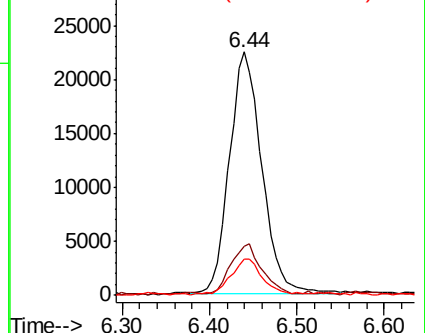
87 15.0 11.4 17.2



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: 0.976 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.08 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

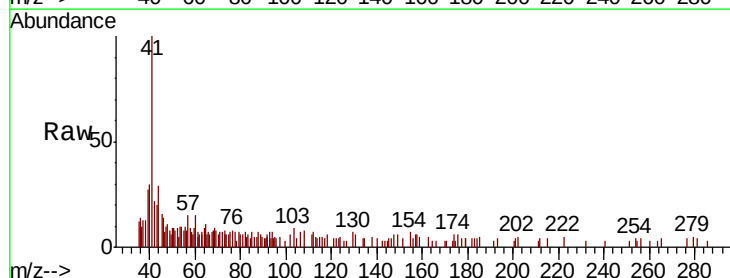
Tgt Ion: 41 Resp: 3886

Ion Ratio Lower Upper

41 100

69 2.9 67.9 101.9#

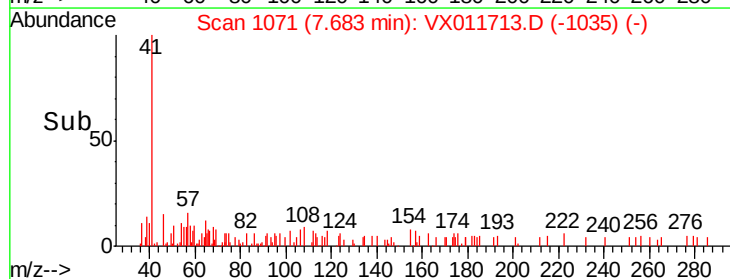
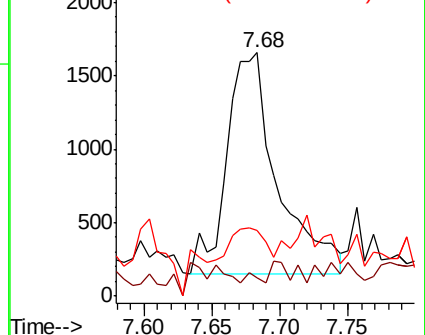
39 0.0 41.6 62.4#

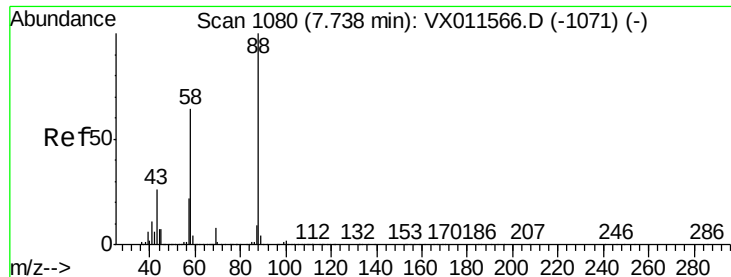


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

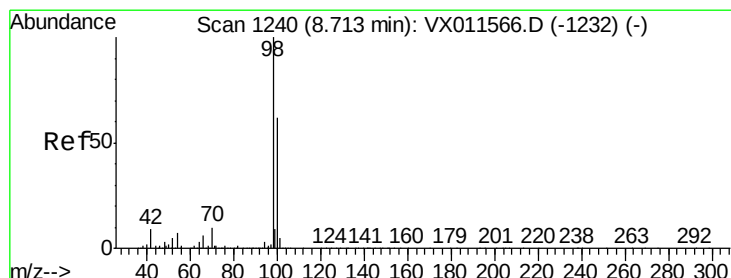
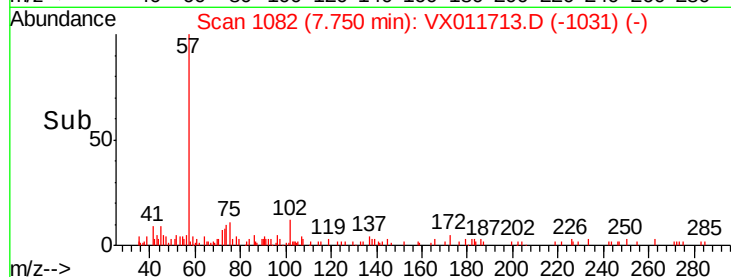
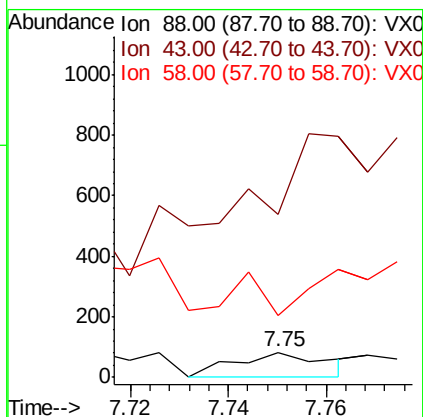
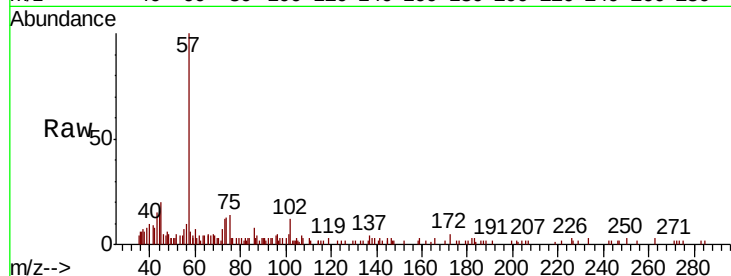




#49
1,4-Dioxane
Concen: 1.039 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

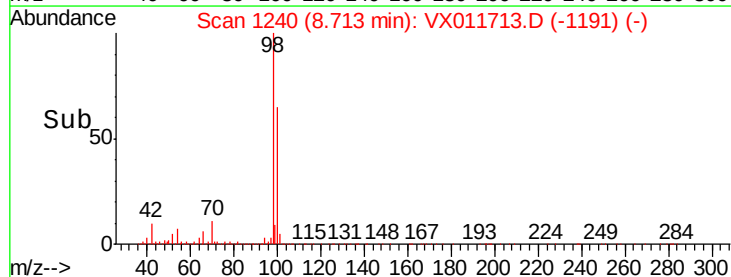
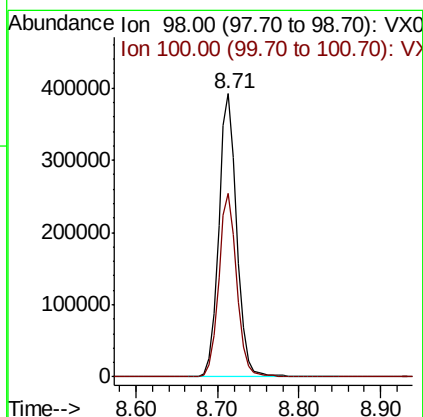
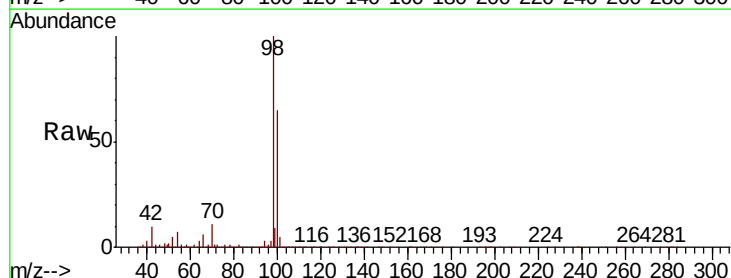
Instrument :
MSVOA_X
ClientSampled :
T4-A4-(2)

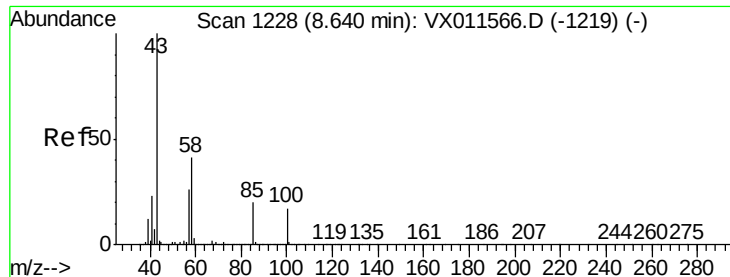
Tgt Ion: 88 Resp: 110
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.0#
58 0.0 54.3 81.5#



#50
Toluene-d8
Concen: 56.672 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

Tgt Ion: 98 Resp: 605016
Ion Ratio Lower Upper
98 100
100 64.7 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 10.563 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

Instrument :

MSVOA_X

ClientSampleId :

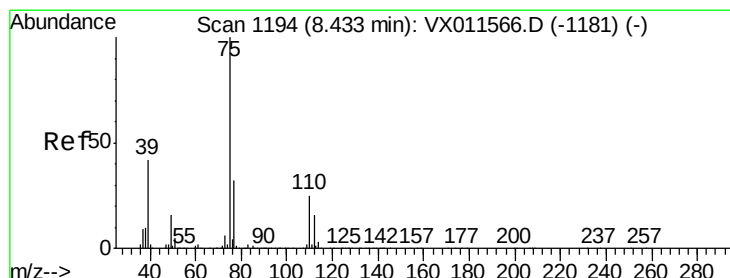
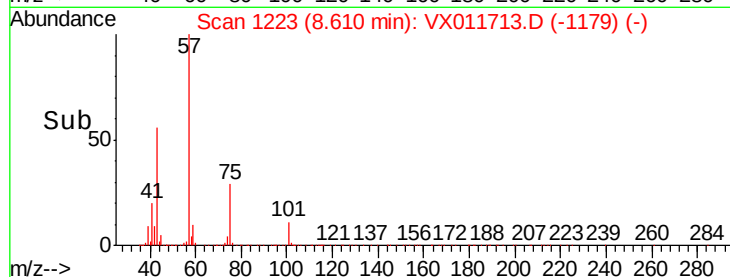
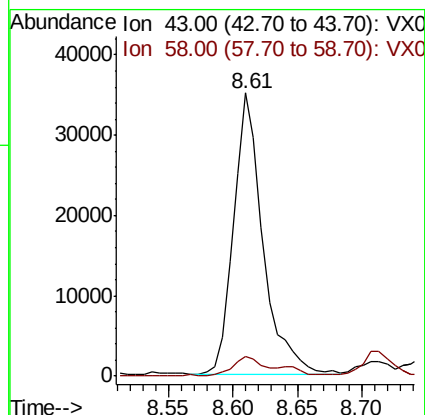
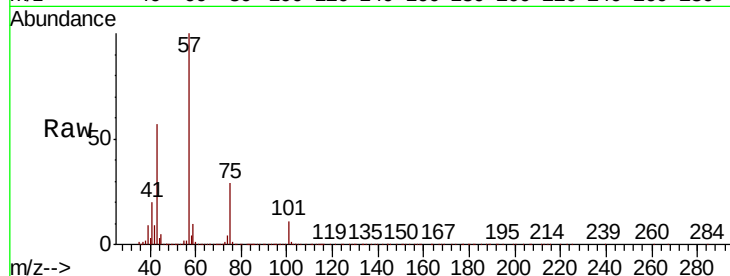
T4-A4-(2)

Tgt Ion: 43 Resp: 55582

Ion Ratio Lower Upper

43 100

58 9.8 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 4.961 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

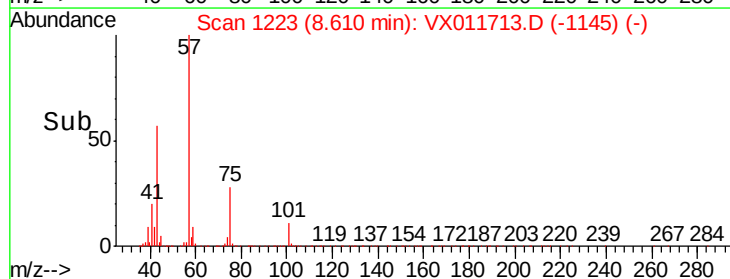
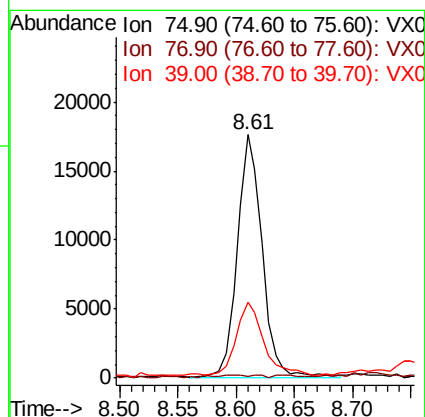
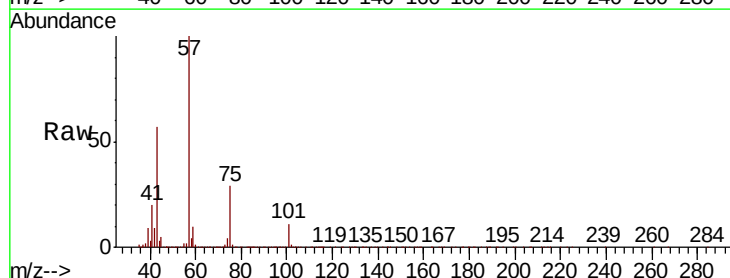
Tgt Ion: 75 Resp: 26096

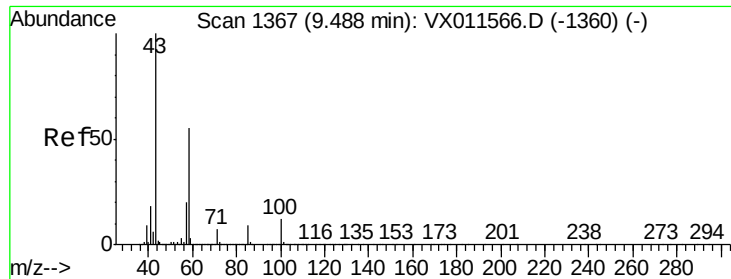
Ion Ratio Lower Upper

75 100

77 0.1 25.5 38.3#

39 30.0 33.6 50.4#

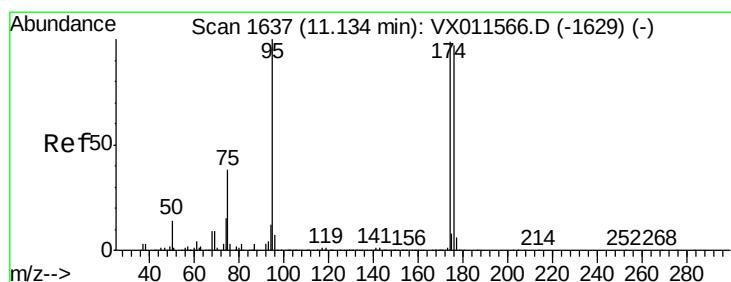
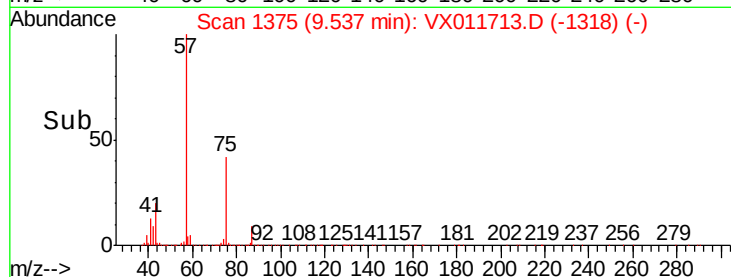
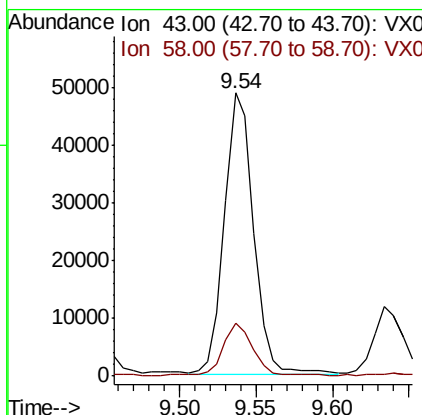
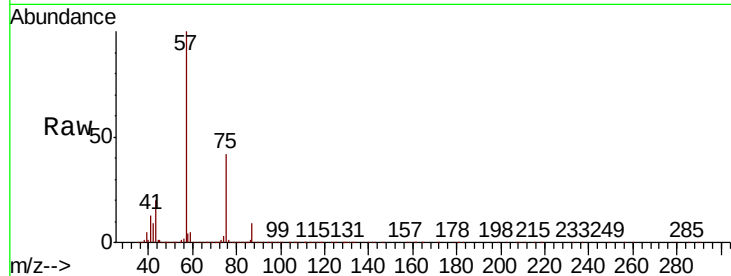




#59
2-Hexanone
Concen: 15.859 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

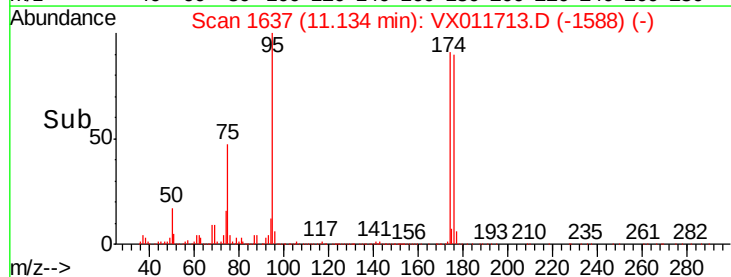
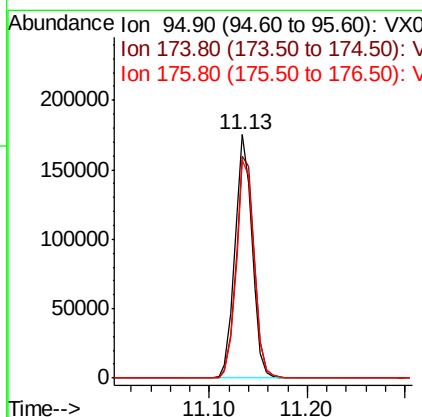
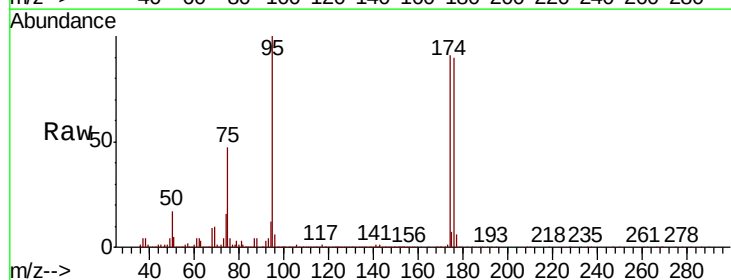
Instrument :
MSVOA_X
ClientSampled :
T4-A4-(2)

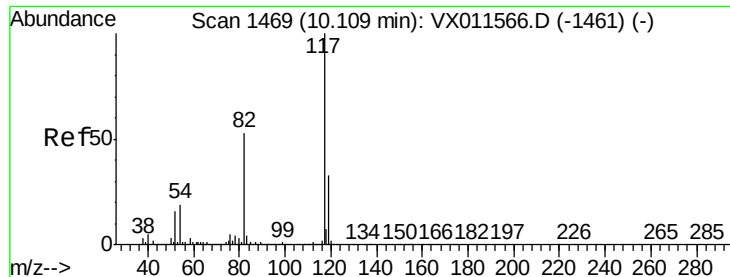
Tgt Ion: 43 Resp: 64356
Ion Ratio Lower Upper
43 100
58 19.0 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 47.444 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

Tgt Ion: 95 Resp: 213786
Ion Ratio Lower Upper
95 100
174 95.7 0.0 200.6
176 92.5 0.0 196.6

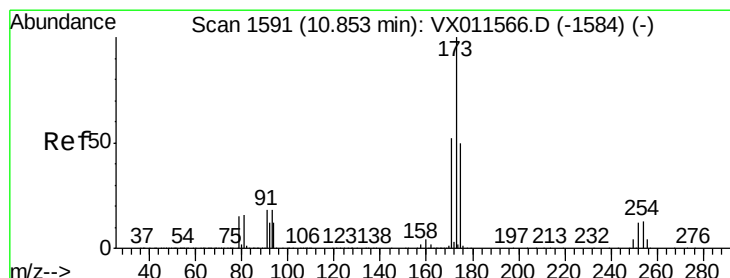
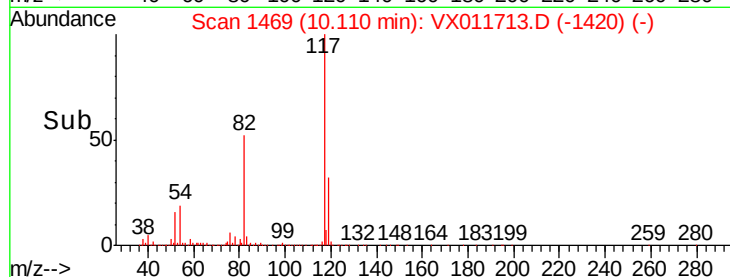
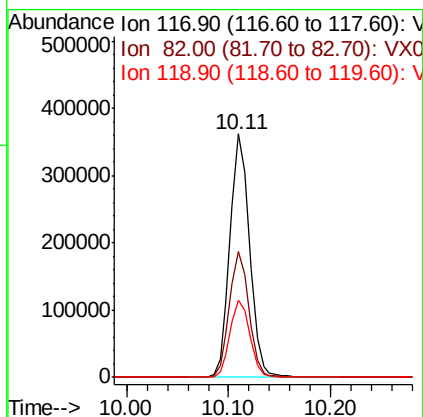
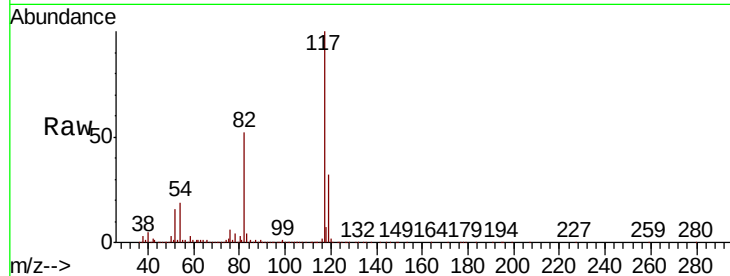




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

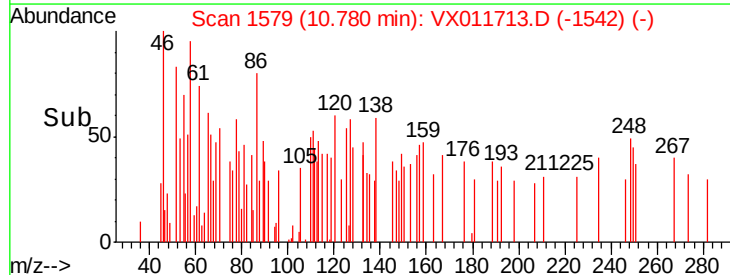
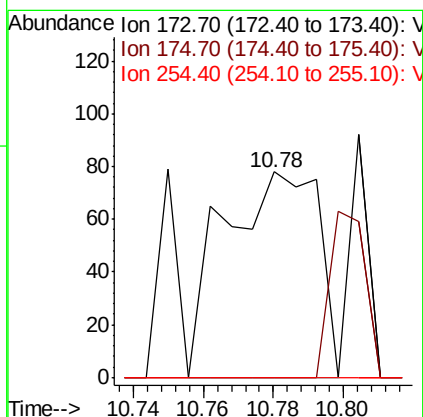
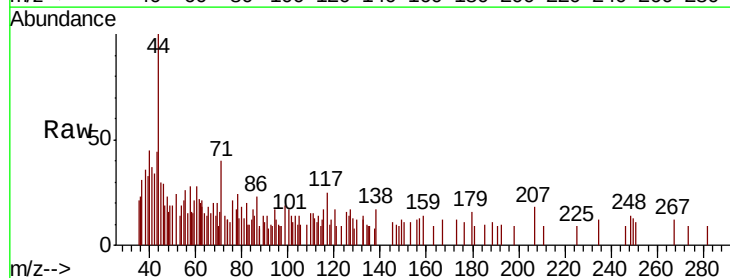
Instrument :
MSVOA_X
ClientSampleId :
T4-A4-(2)

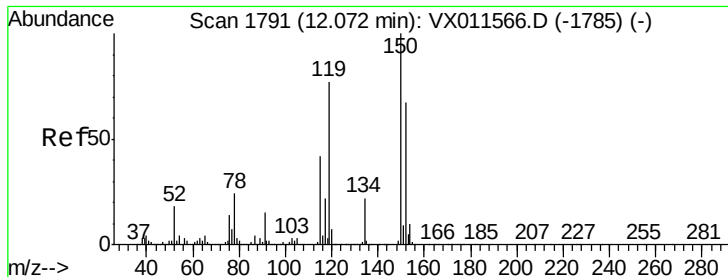
Tgt Ion:117 Resp: 481599
Ion Ratio Lower Upper
117 100
82 51.8 42.0 63.0
119 31.9 26.5 39.7



#71
Bromoform
Concen: 3.328 ug/l
RT: 10.78 min Scan# 1579
Delta R.T. -0.07 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

Tgt Ion:173 Resp: 147
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.7#
254 0.0 0.1 0.1#



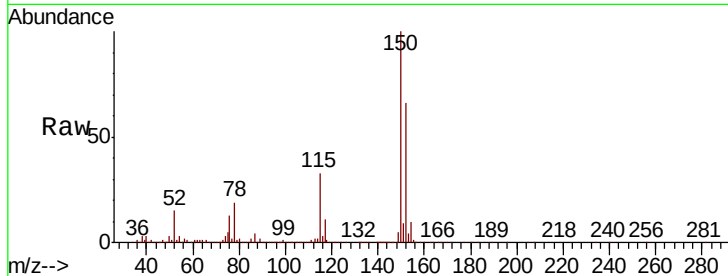


#72

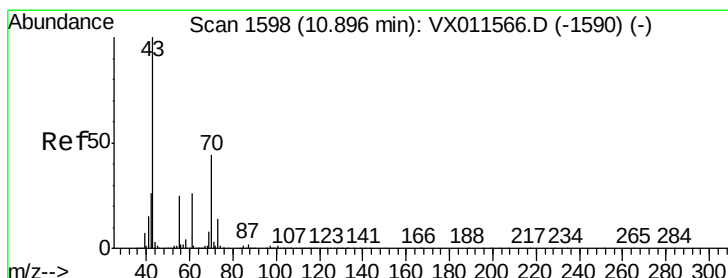
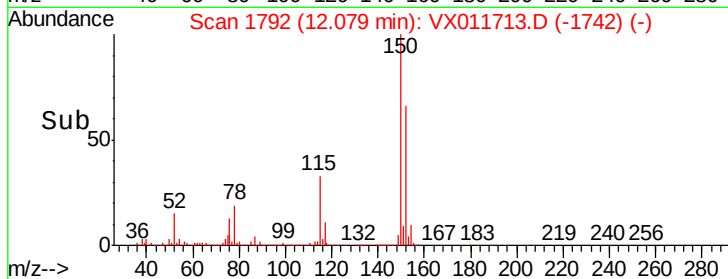
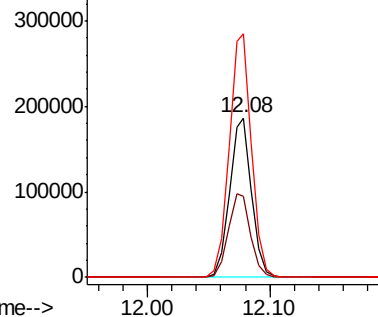
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.01 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

Instrument :
MSVOA_X
ClientSampleId :
T4-A4-(2)

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.3	37.3	111.9
150	154.9	0.0	346.2



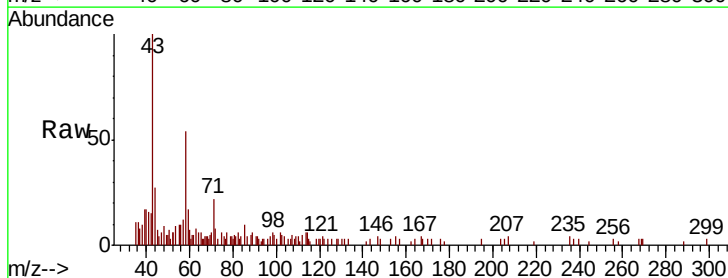
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



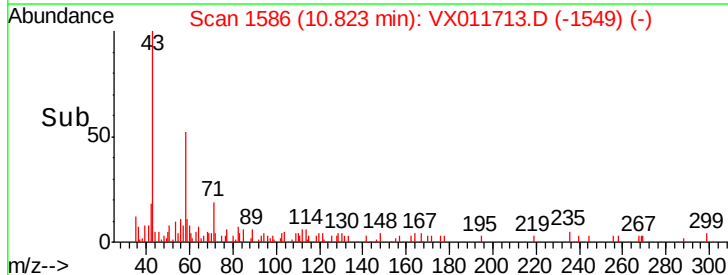
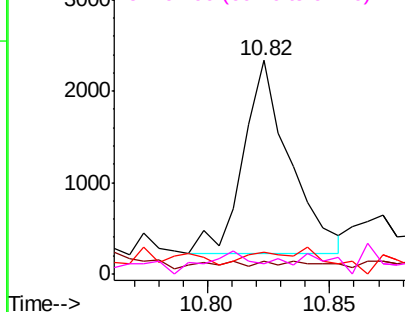
#74

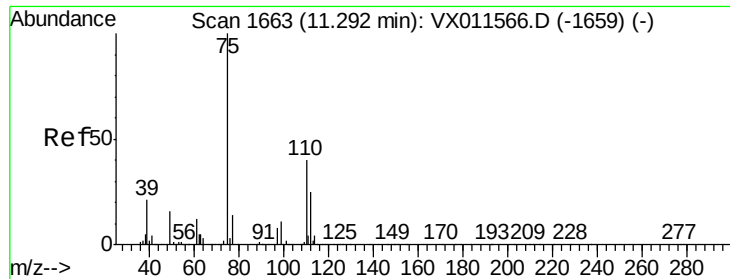
N-amyl acetate
Concen: 0.432 ug/l
RT: 10.82 min Scan# 1586
Delta R.T. -0.07 min
Lab File: VX011713.D
Acq: 21 Aug 2019 03:10

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.7	52.1#
55	0.0	19.6	29.4#
61	11.8	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: 23.071 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

Instrument :

MSVOA_X

ClientSampleId :

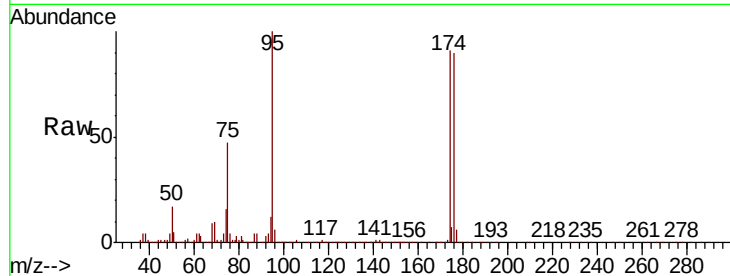
T4-A4-(2)

Tgt Ion: 75 Resp: 102413

Ion Ratio Lower Upper

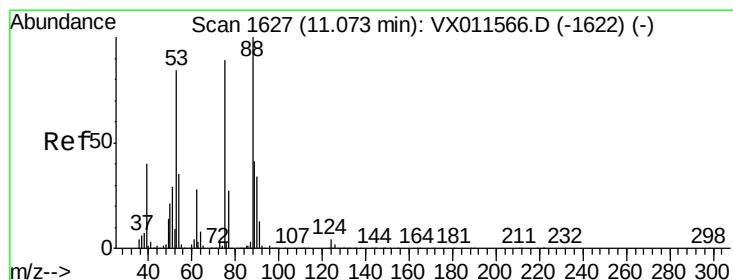
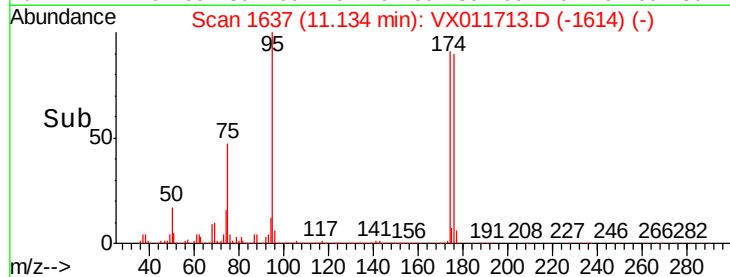
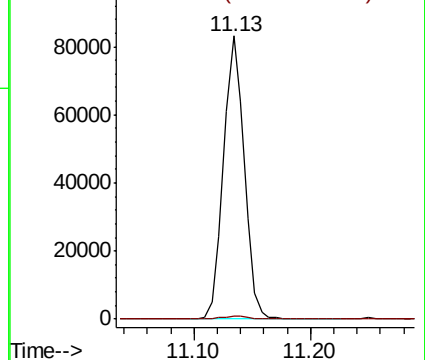
75 100

77 1.7 20.9 62.8#



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: 61.377 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011713.D

Acq: 21 Aug 2019 03:10

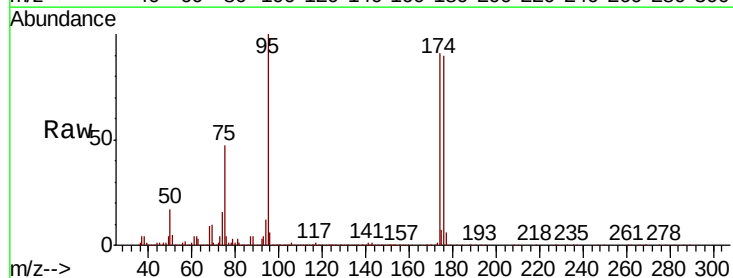
Tgt Ion: 75 Resp: 102413

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 37.3 55.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

