

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX082719\
 Data File : VX011858.D
 Acq On : 27 Aug 2019 18:24
 Operator : JC/SP
 Sample : K4525-23
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T9-12-13-A2(0)

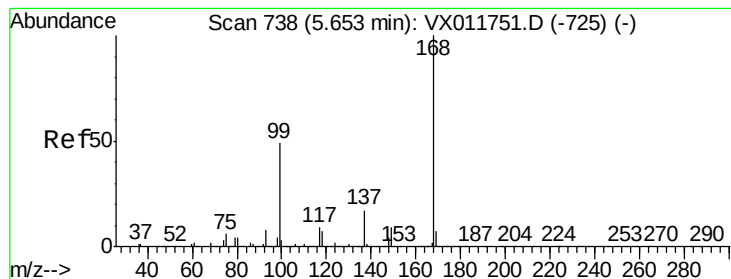
Quant Time: Aug 28 02:24:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	433570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	596181	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	527165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	258849	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	217166	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
35) Dibromofluoromethane	5.49	113	187108	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
50) Toluene-d8	8.71	98	681801	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
62) 4-Bromofluorobenzene	11.13	95	250614	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	415	0.212	ug/l	86
6) Chloroethane	1.76	64	681	0.328	ug/l #	73
8) Diethyl Ether	2.18	74	779	0.406	ug/l	64
11) Tert butyl alcohol	3.01	59	5386	6.258	ug/l #	78
13) Acrolein	2.28	56	873	2.624	ug/l #	16
16) Acetone	2.43	43	14008	7.393	ug/l	99
18) Methyl Acetate	2.77	43	3837	0.746	ug/l	96
20) Methylene Chloride	2.85	84	27103	6.997	ug/l	89
25) 2-Butanone	4.68	43	3230	1.188	ug/l	95
31) Cyclohexane	5.65	56	7078	1.322	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	26483	5.665	ug/l #	40
38) Carbon Tetrachloride	5.65	117	37025	6.988	ug/l #	15
43) Isopropyl Acetate	6.44	43	91058	11.372	ug/l	98
48) Methyl methacrylate	7.68	41	5418	1.360	ug/l #	14
49) 1,4-Dioxane	7.72	88	60	0.543	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	82092	15.558	ug/l #	49
54) cis-1,3-Dichloropropene	8.61	75	36898	6.678	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	6172	0.980	ug/l #	48
59) 2-Hexanone	9.54	43	81824	20.205	ug/l #	49
74) N-amyl acetate	10.82	43	3443	0.570	ug/l #	46
76) 1,2,3-Trichloropropane	11.13	75	123230	27.131	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	123230	81.822	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

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MSVOA_X

ClientSampleId :

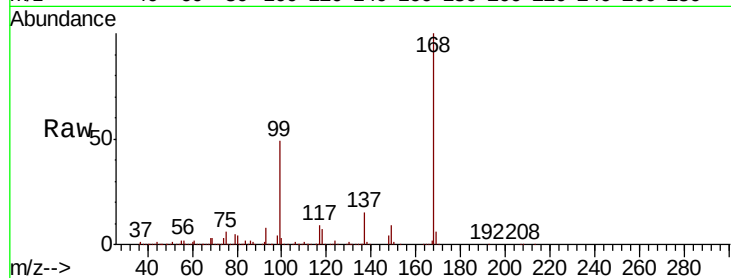
T9-12-13-A2(0)

Tgt Ion:168 Resp: 433570

Ion Ratio Lower Upper

168 100

99 48.8 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

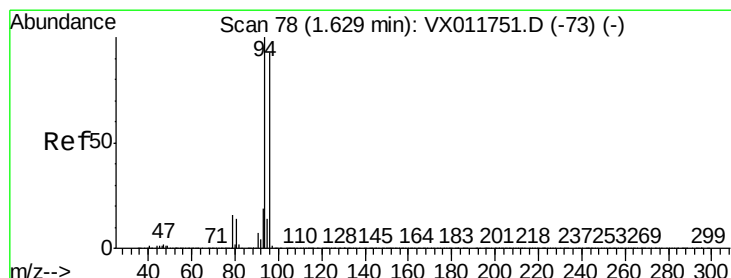
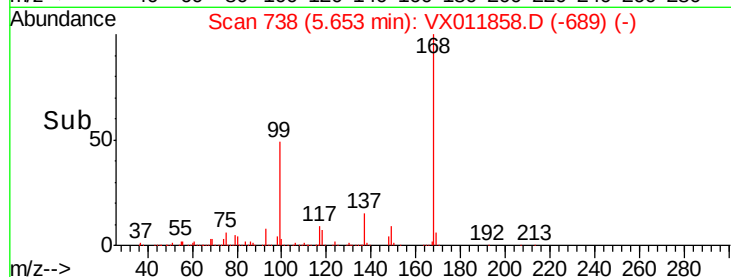
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.212 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011858.D

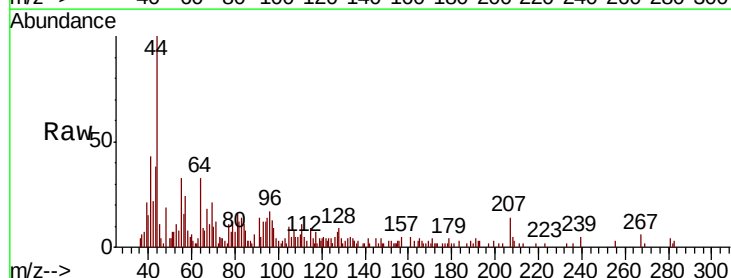
Acq: 27 Aug 2019 18:24

Tgt Ion: 94 Resp: 415

Ion Ratio Lower Upper

94 100

96 79.2 74.1 111.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

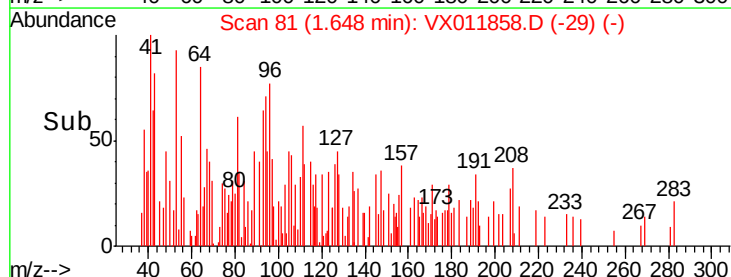
400

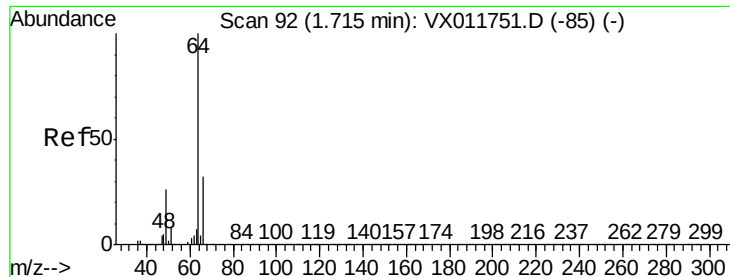
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.328 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampled :

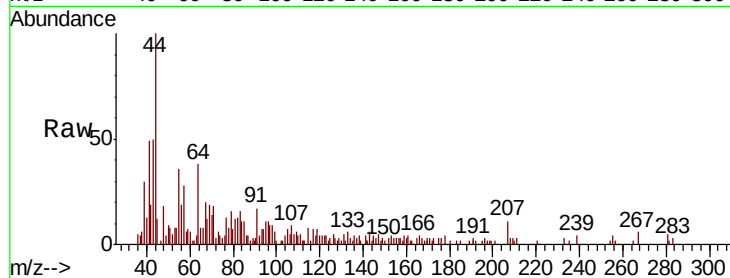
T9-12-13-A2(0)

Tgt Ion: 64 Resp: 681

Ion Ratio Lower Upper

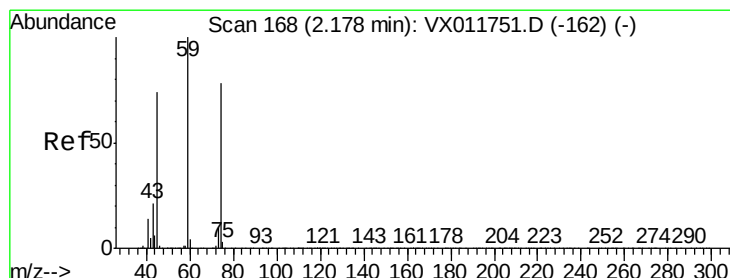
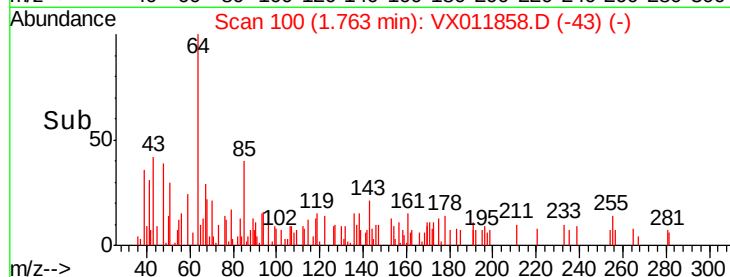
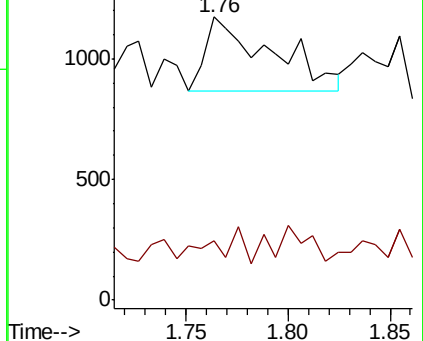
64 100

66 16.1 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.406 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011858.D

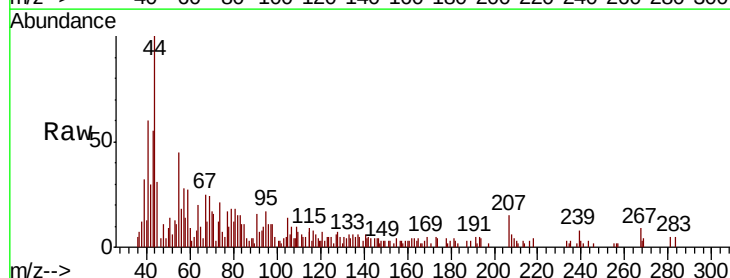
Acq: 27 Aug 2019 18:24

Tgt Ion: 74 Resp: 779

Ion Ratio Lower Upper

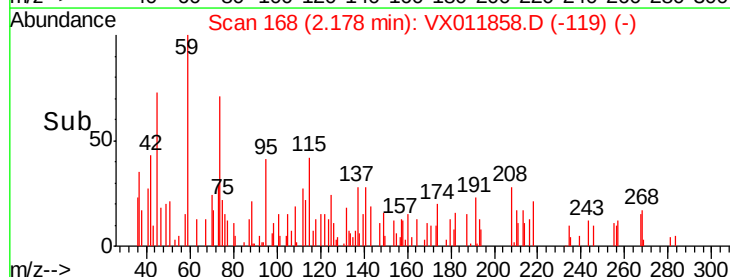
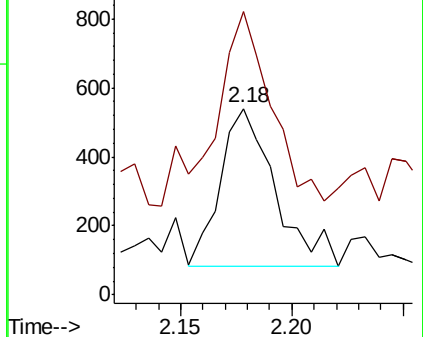
74 100

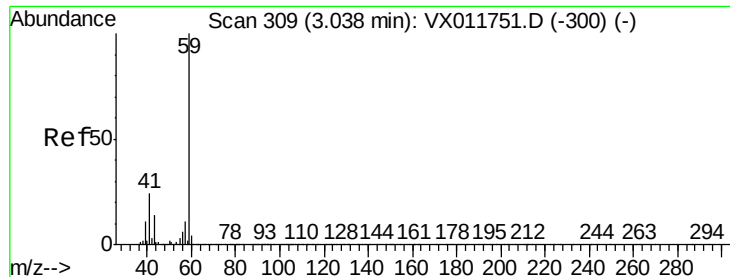
45 127.7 46.7 140.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

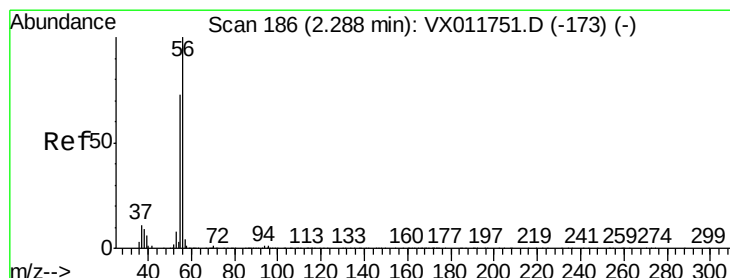
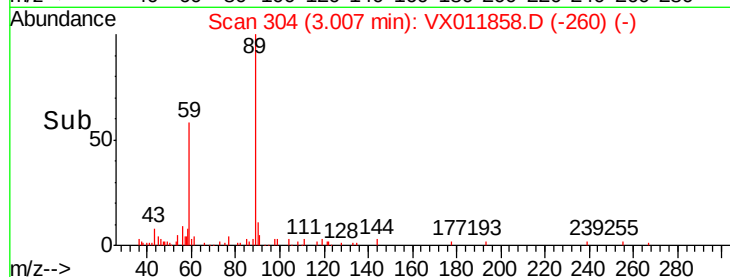
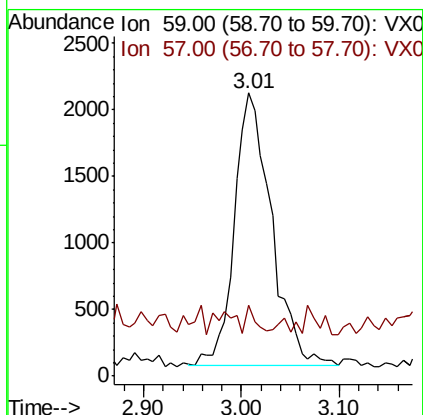
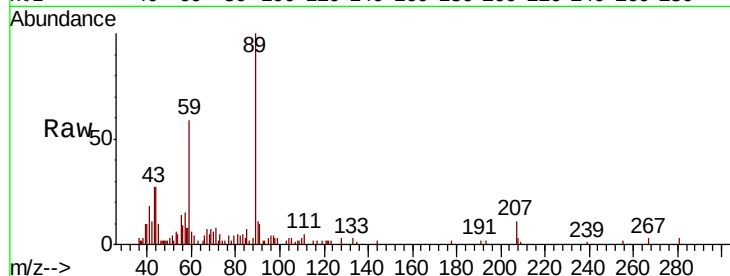




#11
Tert butyl alcohol
Concen: 6.258 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

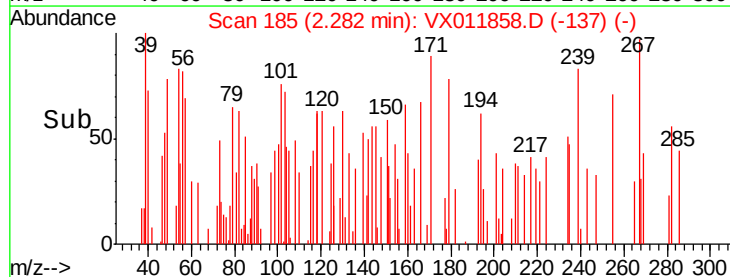
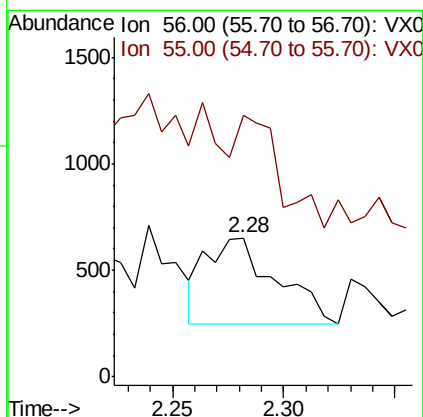
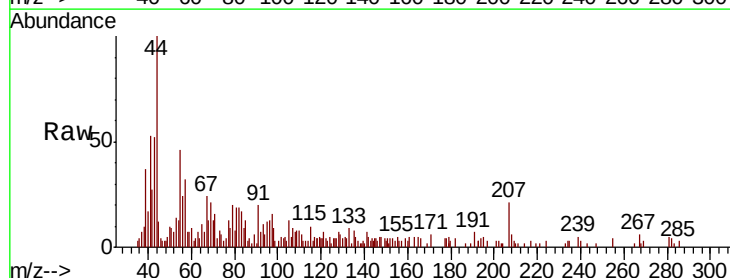
Instrument :
MSVOA_X
ClientSampleId :
T9-12-13-A2(0)

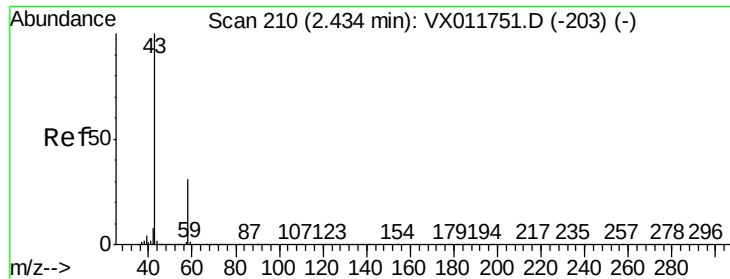
Tgt Ion: 59 Resp: 5386
Ion Ratio Lower Upper
59 100
57 2.4 8.4 12.6#



#13
Acrolein
Concen: 2.624 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

Tgt Ion: 56 Resp: 873
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#

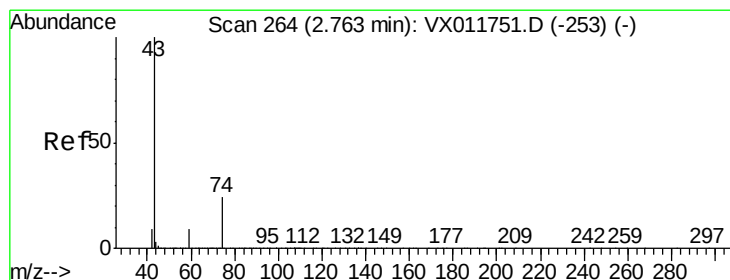
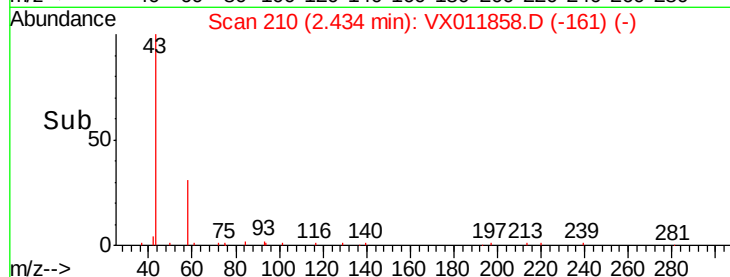
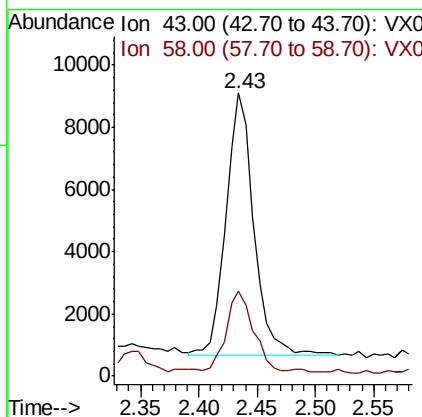
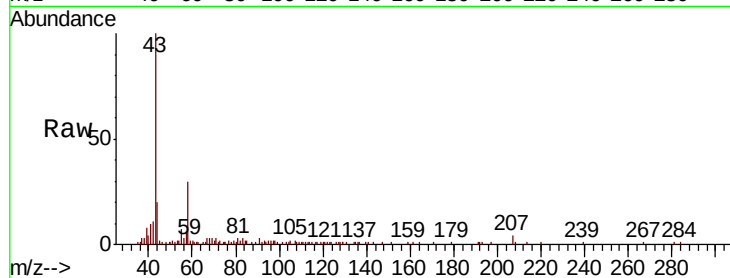




#16
Acetone
Concen: 7.393 ug/l
RT: 2.43 min Scan# 210
Delta R.T. -0.00 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

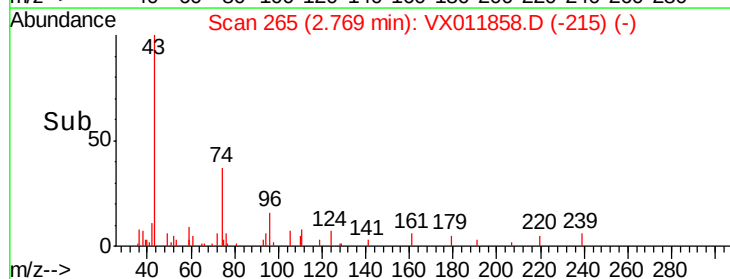
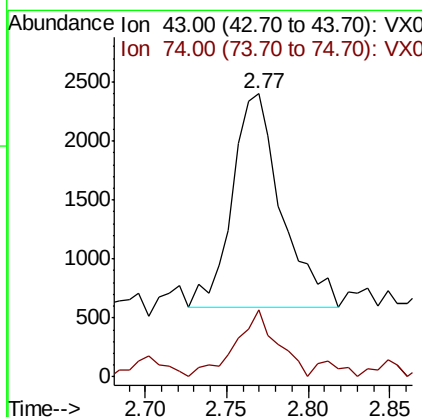
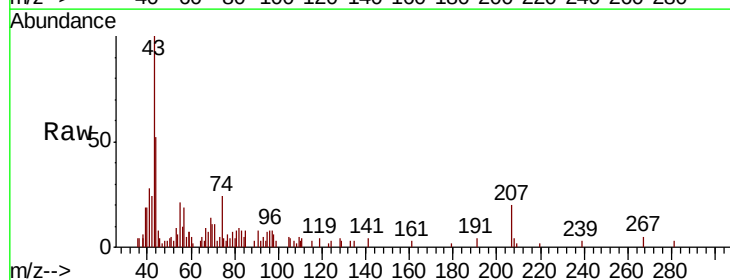
Instrument :
MSVOA_X
ClientSampleId :
T9-12-13-A2(0)

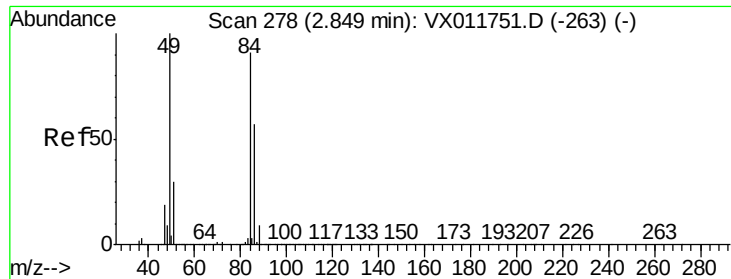
Tgt Ion: 43 Resp: 14008
Ion Ratio Lower Upper
43 100
58 30.1 24.4 36.6



#18
Methyl Acetate
Concen: 0.746 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

Tgt Ion: 43 Resp: 3837
Ion Ratio Lower Upper
43 100
74 26.1 19.5 29.3

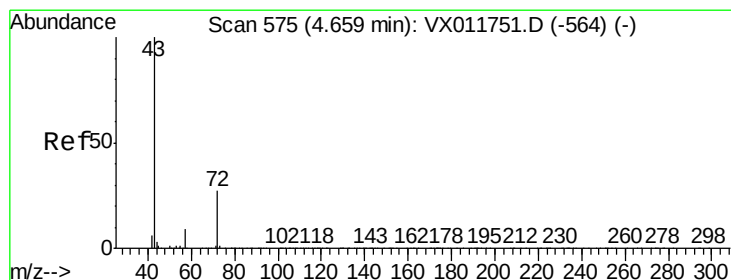
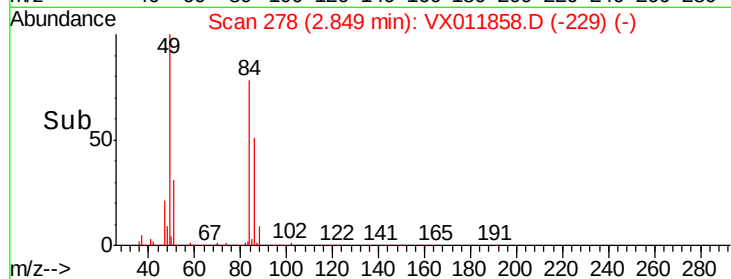
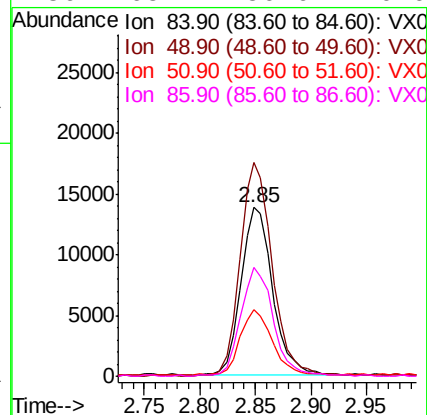
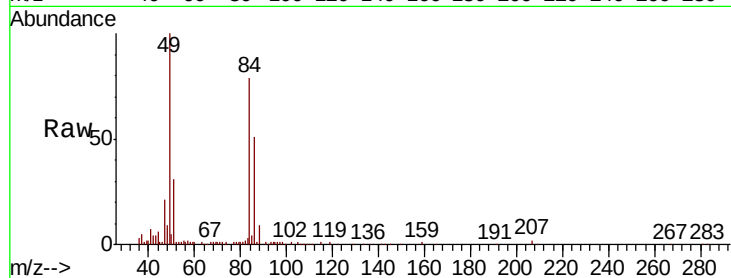




#20
Methylene Chloride
Concen: 6.997 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

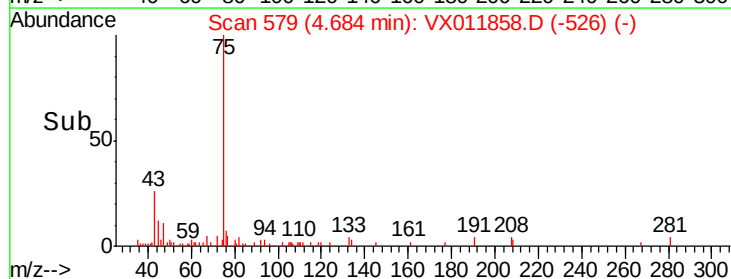
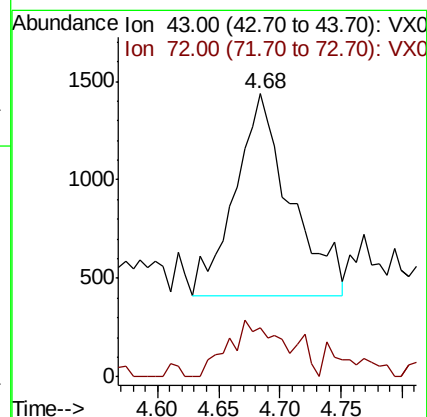
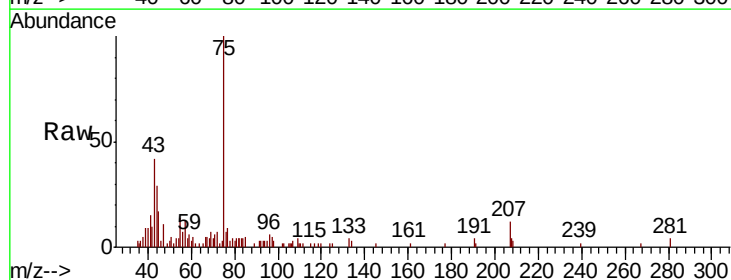
Instrument :
MSVOA_X
ClientSampleId :
T9-12-13-A2(0)

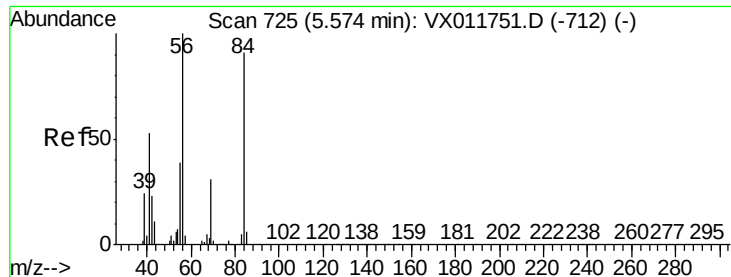
Tgt Ion:	84	Resp:	27103
Ion	Ratio	Lower	Upper
84	100		
49	127.7	88.3	132.5
51	38.9	26.2	39.2
86	65.4	50.6	76.0



#25
2-Butanone
Concen: 1.188 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

Tgt Ion:	43	Resp:	3230
Ion	Ratio	Lower	Upper
43	100		
72	24.4	21.8	32.6

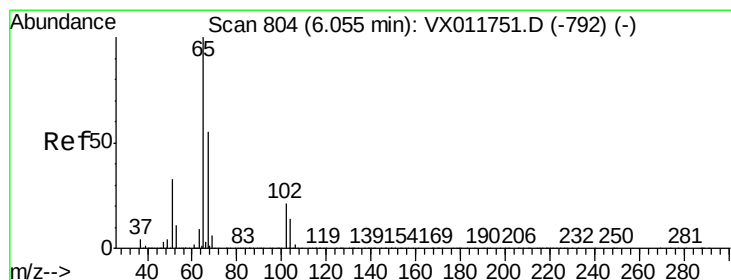
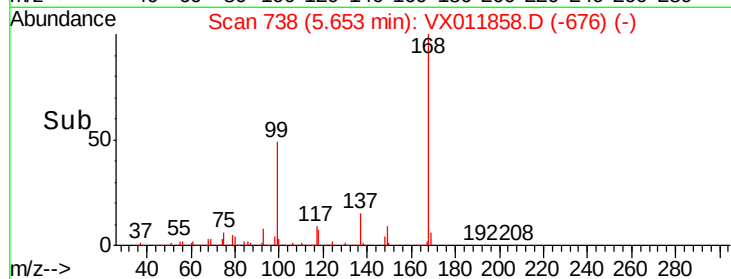
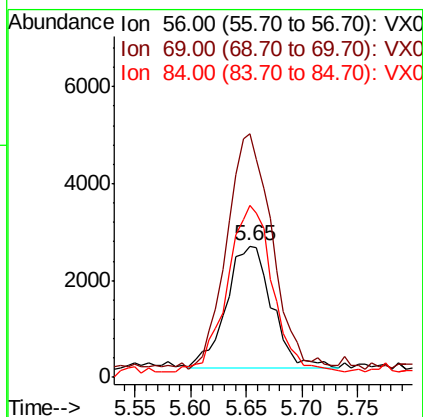
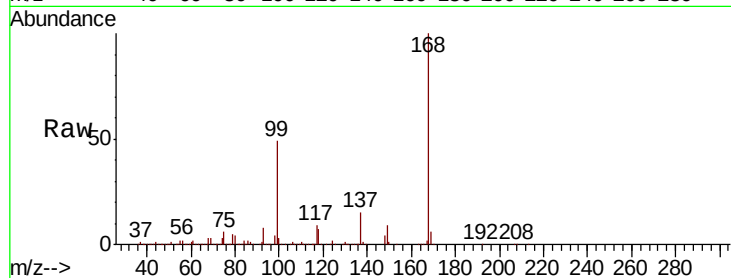




#31
Cyclohexane
Concen: 1.322 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

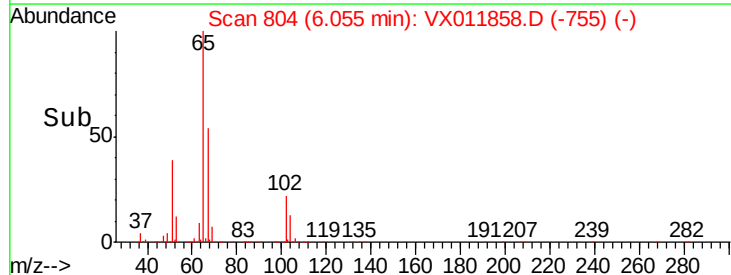
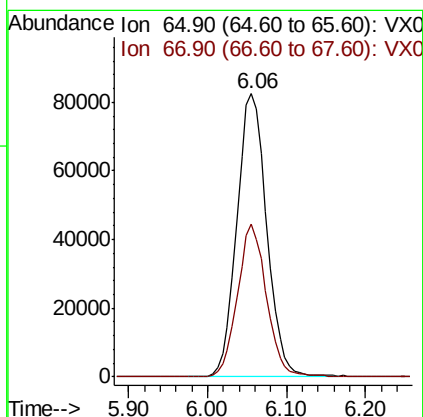
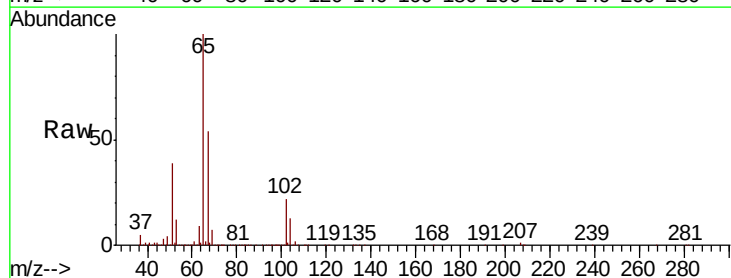
Instrument :
MSVOA_X
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T9-12-13-A2(0)

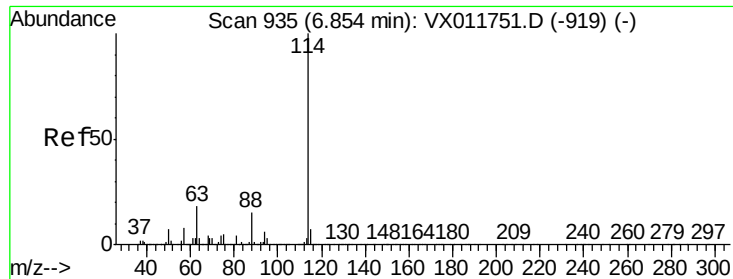
Tgt Ion: 56 Resp: 7078
Ion Ratio Lower Upper
56 100
69 192.9 24.5 36.7#
84 135.5 72.7 109.1#



#33
1,2-Dichloroethane-d4
Concen: 49.860 ug/l
RT: 6.06 min Scan# 804
Delta R.T. -0.00 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

Tgt Ion: 65 Resp: 217166
Ion Ratio Lower Upper
65 100
67 51.7 0.0 107.8

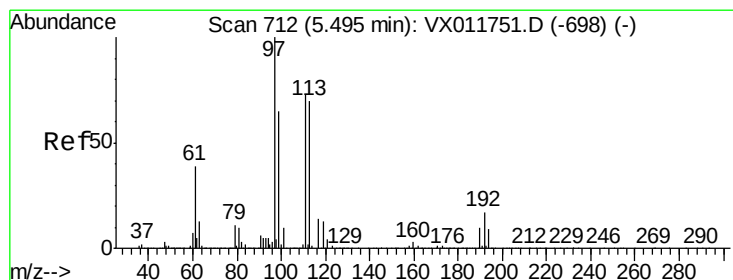
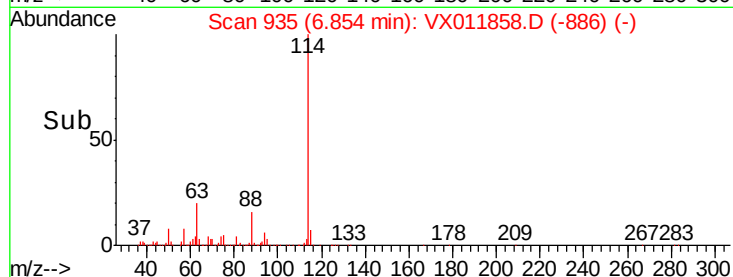
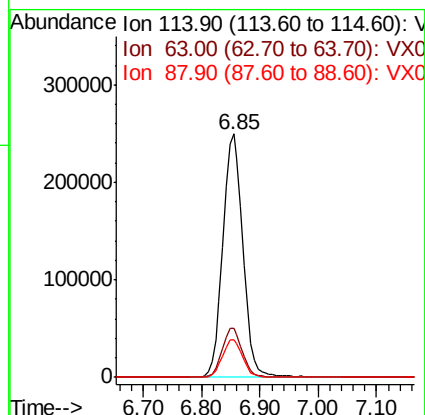
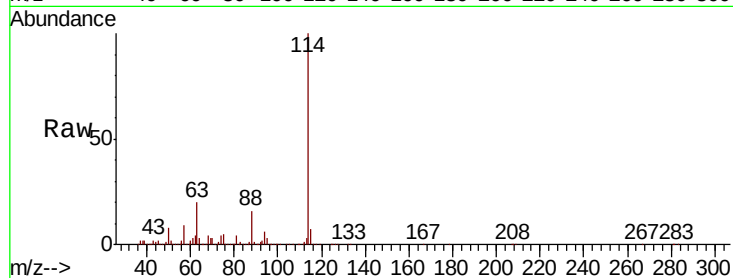




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011858.D
 Acq: 27 Aug 2019 18:24

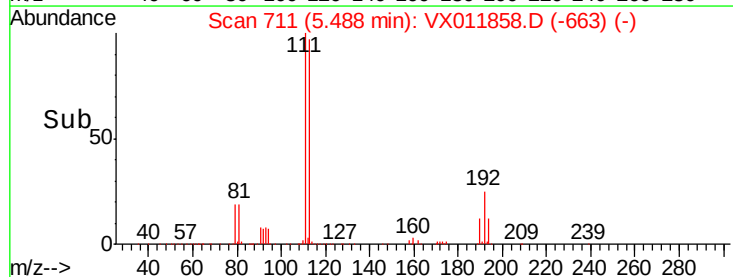
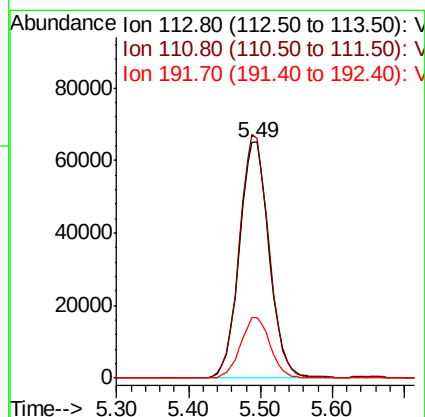
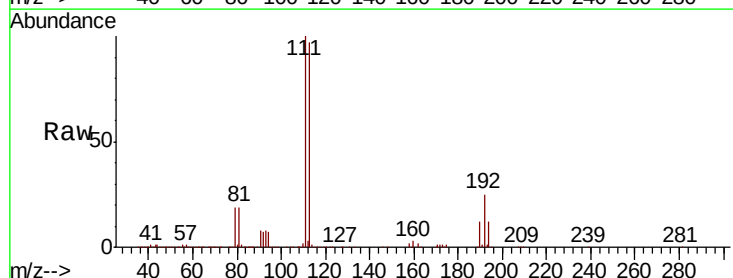
Instrument :
 MSVOA_X
 ClientSampleId :
 T9-12-13-A2(0)

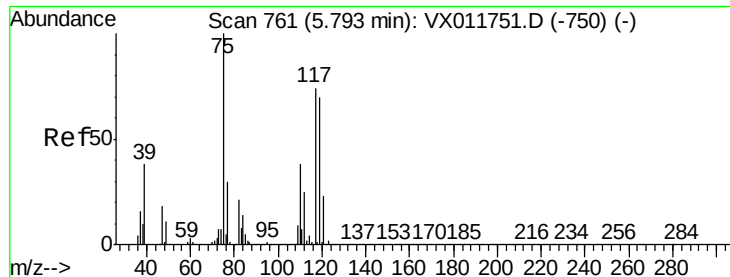
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	36.8
88	15.6	0.0	30.2



#35
 Dibromofluoromethane
 Concen: 48.535 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011858.D
 Acq: 27 Aug 2019 18:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.0	121.4
192	25.7	19.9	29.9

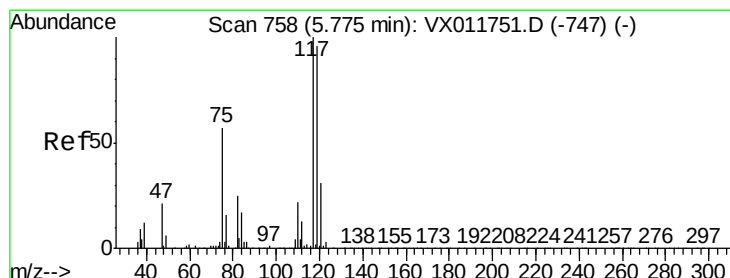
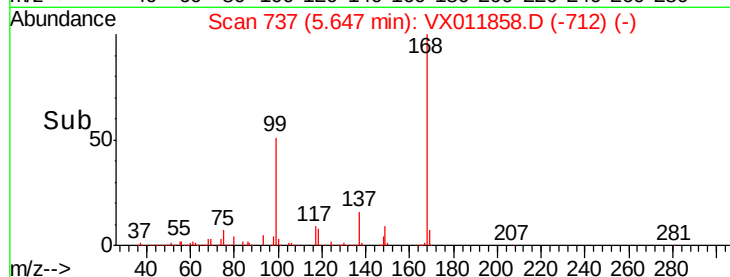
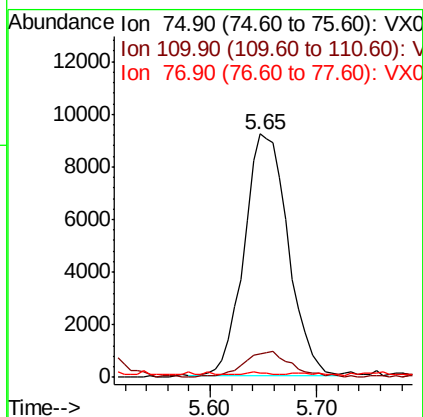
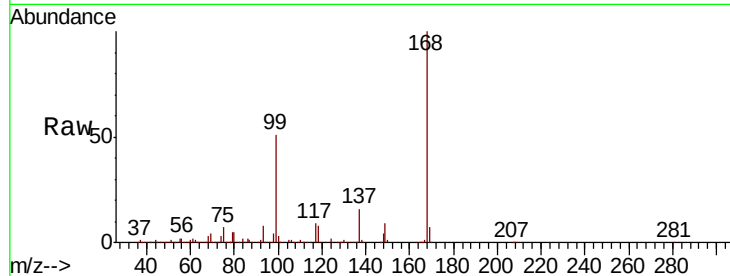




#36
 1,1-Dichloropropene
 Concen: 5.665 ug/l
 RT: 5.65 min Scan# 737
 Delta R.T. -0.15 min
 Lab File: VX011858.D
 Acq: 27 Aug 2019 18:24

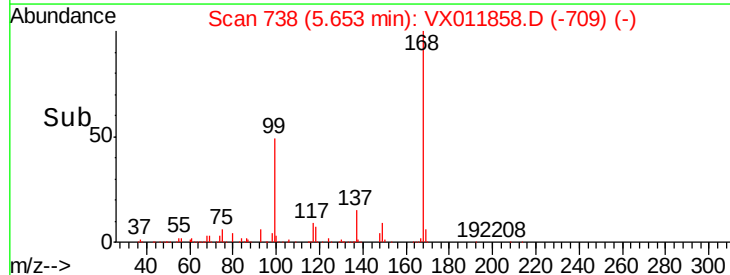
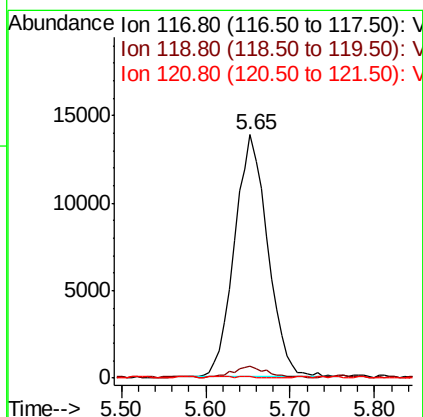
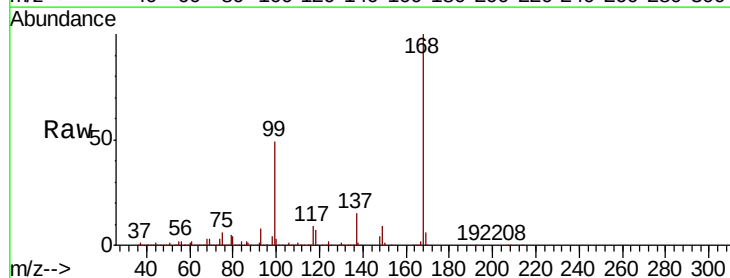
Instrument :
 MSVOA_X
 ClientSampleId :
 T9-12-13-A2(0)

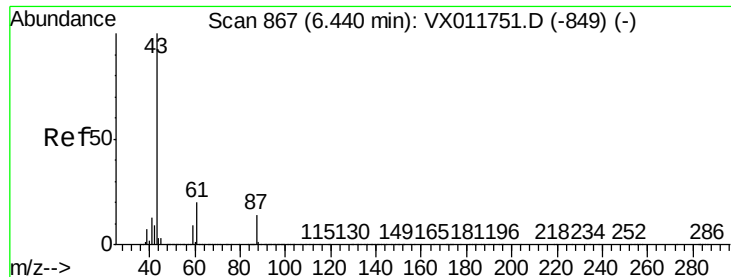
Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	19.0	57.0#
77	0.4	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.988 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.12 min
 Lab File: VX011858.D
 Acq: 27 Aug 2019 18:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	76.6	114.8#
121	0.0	25.2	37.8#





#43

Isopropyl Acetate

Concen: 11.372 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-A2(0)

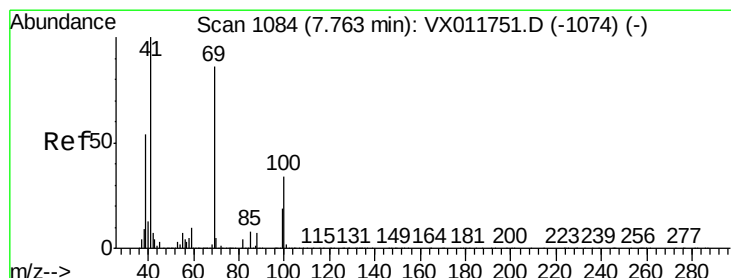
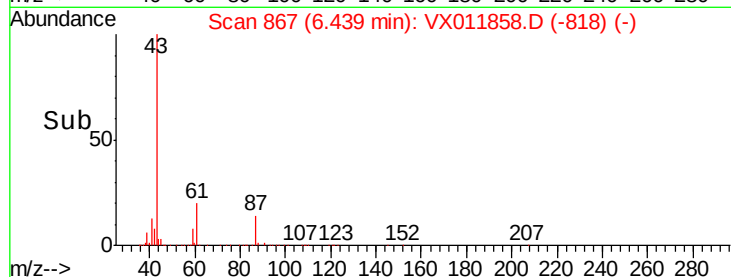
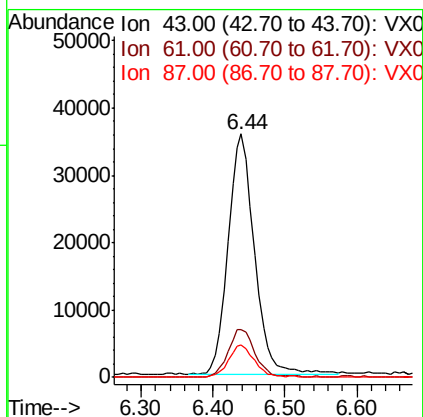
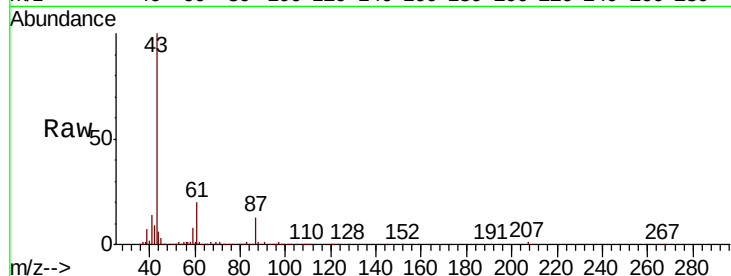
Tgt Ion: 43 Resp: 91058

Ion Ratio Lower Upper

43 100

61 20.7 16.2 24.2

87 13.1 11.6 17.4



#48

Methyl methacrylate

Concen: 1.360 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

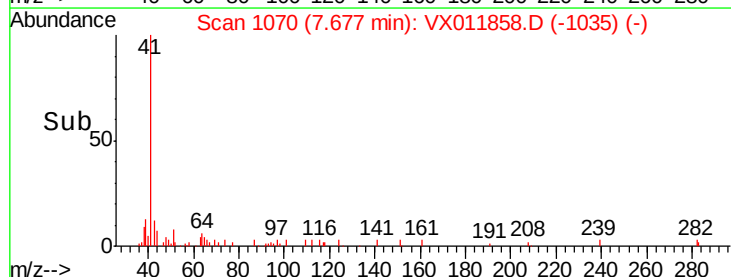
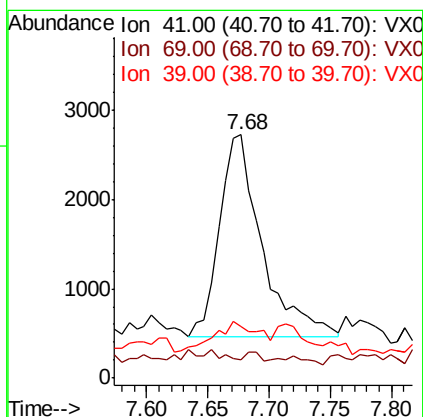
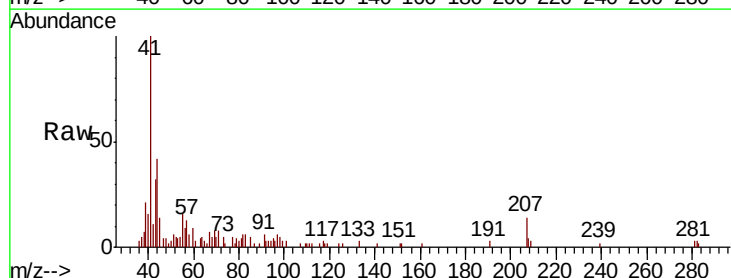
Tgt Ion: 41 Resp: 5418

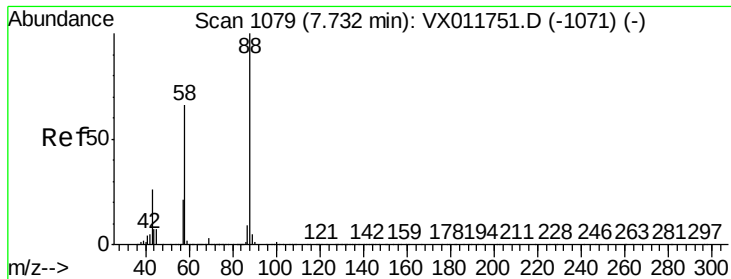
Ion Ratio Lower Upper

41 100

69 1.1 69.4 104.2#

39 0.0 43.6 65.4#





#49

1,4-Dioxane

Concen: 0.543 ug/l

RT: 7.72 min Scan# 1077

Delta R.T. -0.01 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-A2(0)

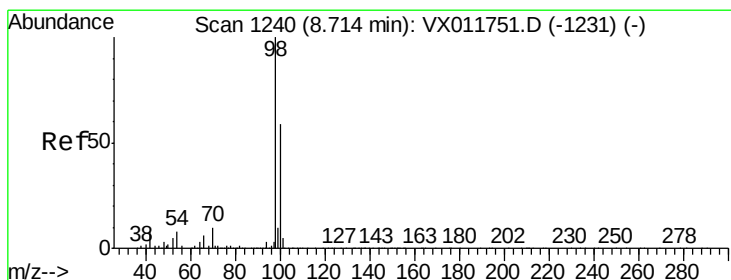
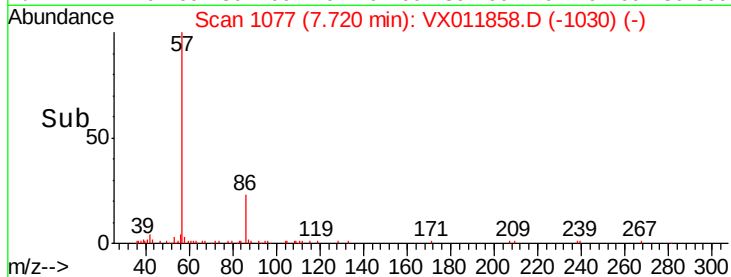
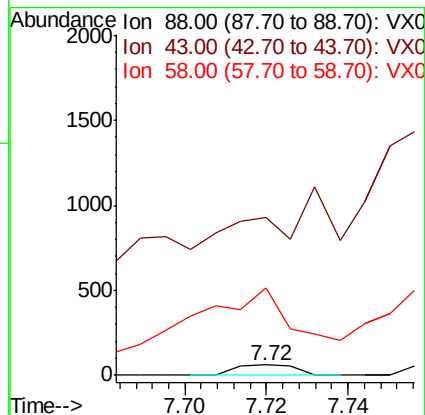
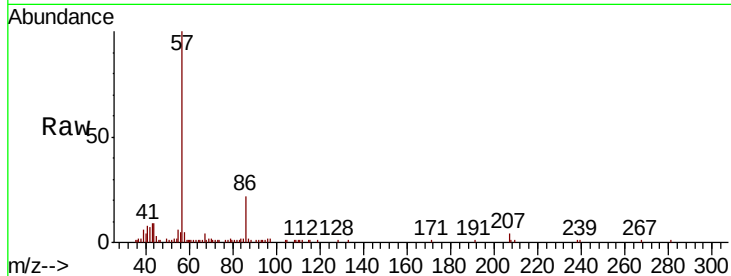
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 24.6 37.0#

58 1118.3 51.4 77.2#



#50

Toluene-d8

Concen: 50.704 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011858.D

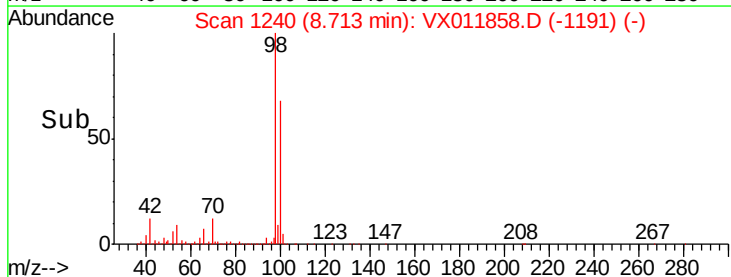
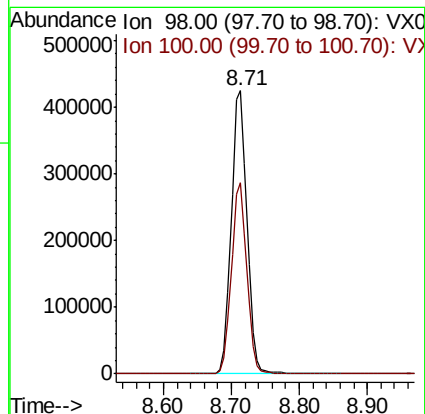
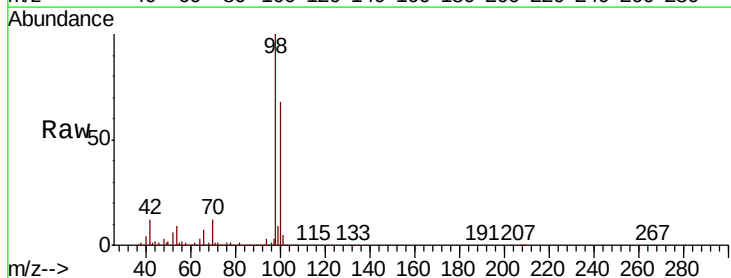
Acq: 27 Aug 2019 18:24

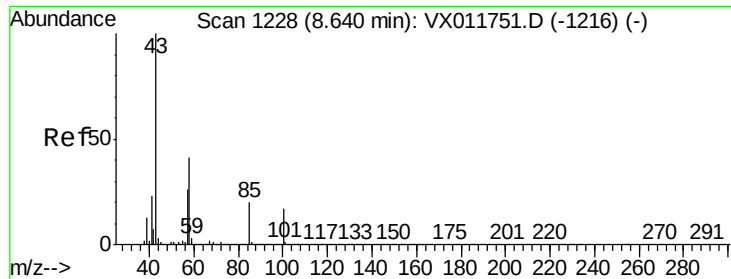
Tgt Ion: 98 Resp: 681801

Ion Ratio Lower Upper

98 100

100 66.0 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 15.558 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

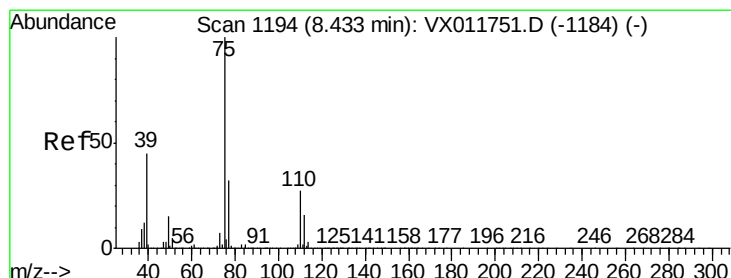
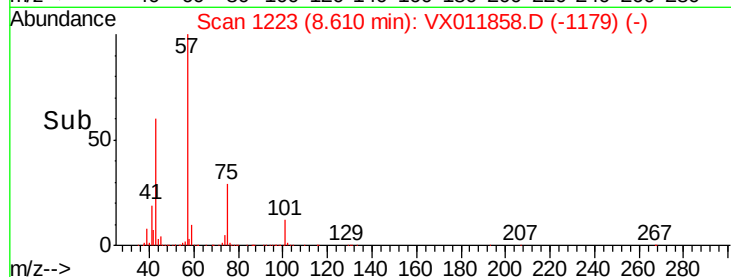
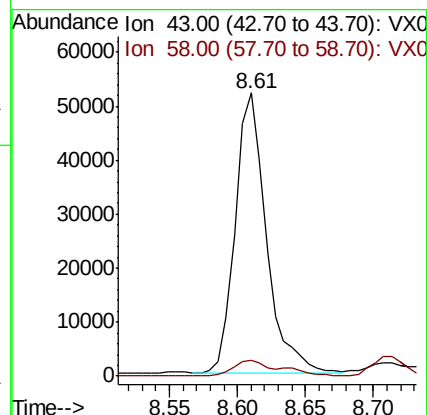
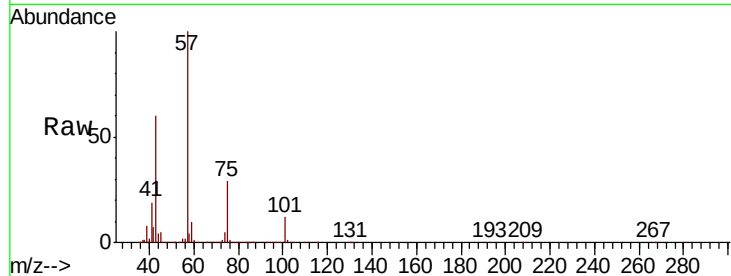
T9-12-13-A2(0)

Tgt Ion: 43 Resp: 82092

Ion Ratio Lower Upper

43 100

58 8.5 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 6.678 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

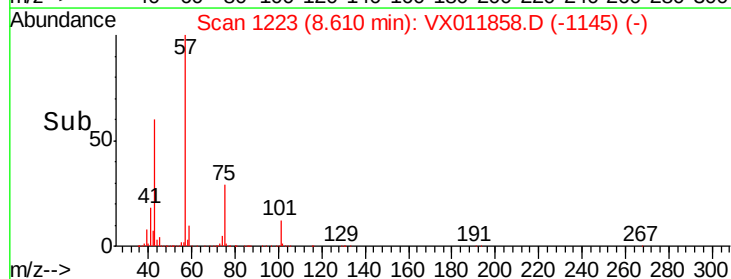
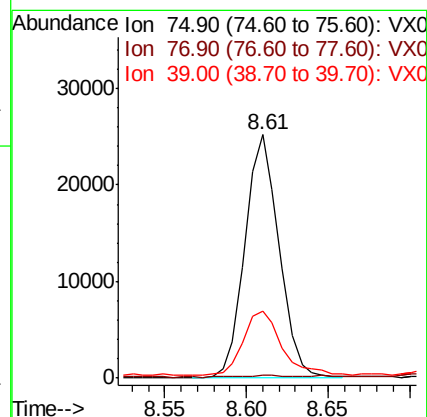
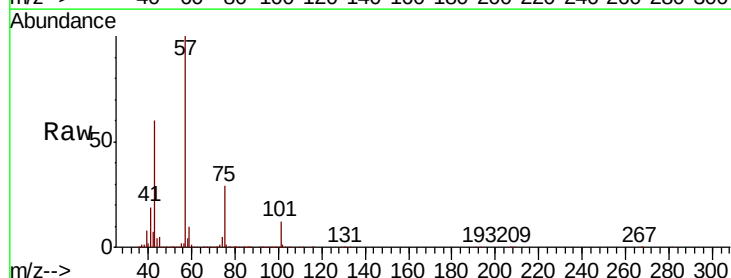
Tgt Ion: 75 Resp: 36898

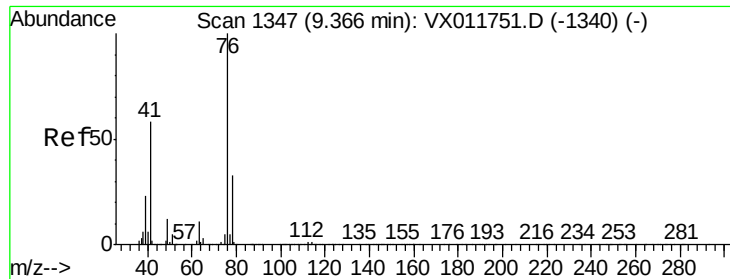
Ion Ratio Lower Upper

75 100

77 0.5 25.4 38.2#

39 26.6 36.2 54.4#





#57

1,3-Dichloropropane

Concen: 0.980 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

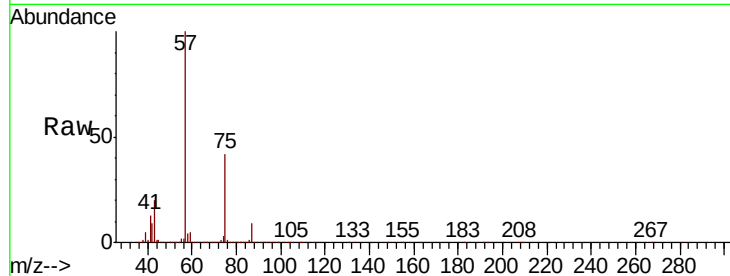
T9-12-13-A2(0)

Tgt Ion: 76 Resp: 6172

Ion Ratio Lower Upper

76 100

78 3.7 26.6 39.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.54

5000

4000

3000

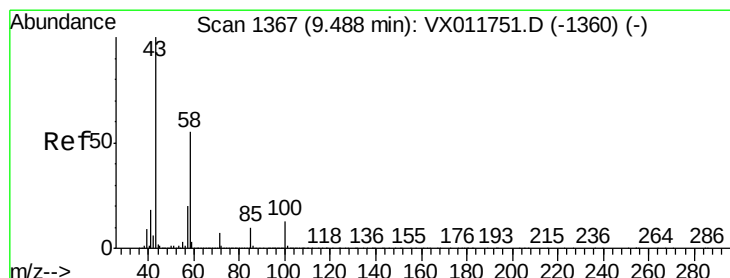
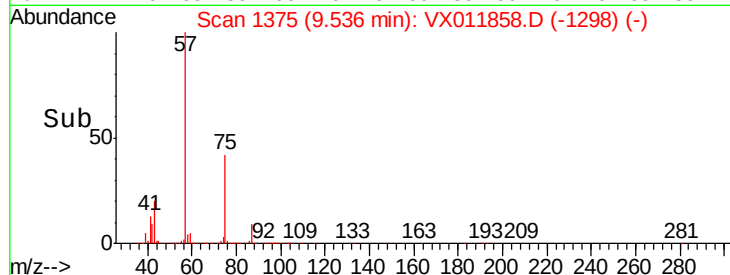
2000

1000

0

Time-->

9.50 9.55 9.60



#59

2-Hexanone

Concen: 20.205 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011858.D

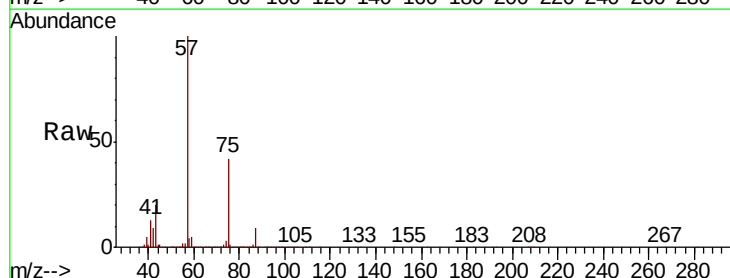
Acq: 27 Aug 2019 18:24

Tgt Ion: 43 Resp: 81824

Ion Ratio Lower Upper

43 100

58 18.5 27.7 83.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.54

60000

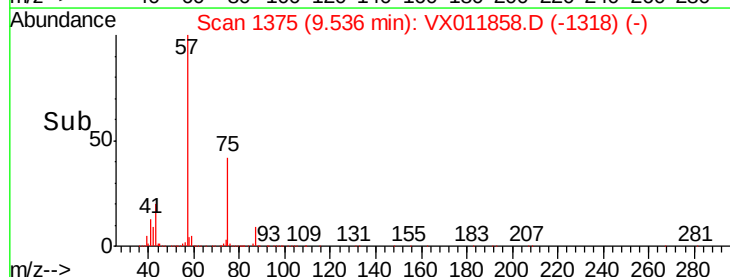
40000

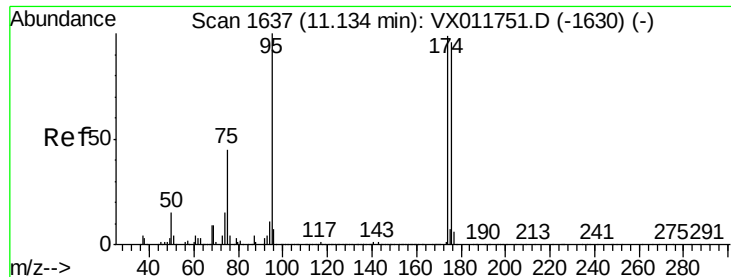
20000

0

Time-->

9.45 9.50 9.55 9.60

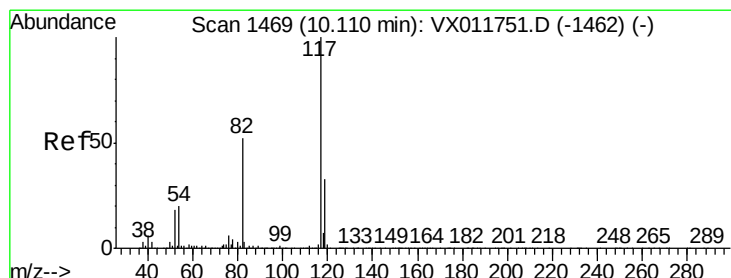
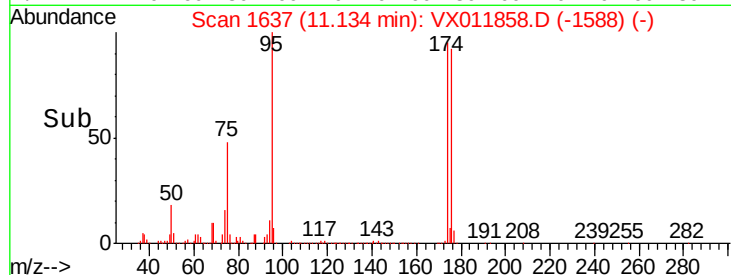
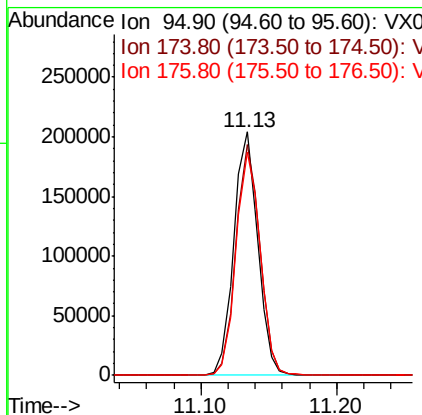
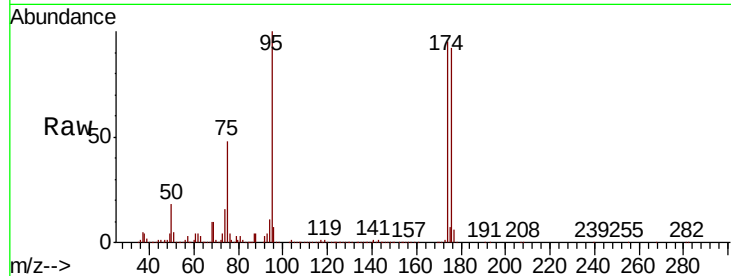




#62
4-Bromofluorobenzene
Concen: 47.152 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

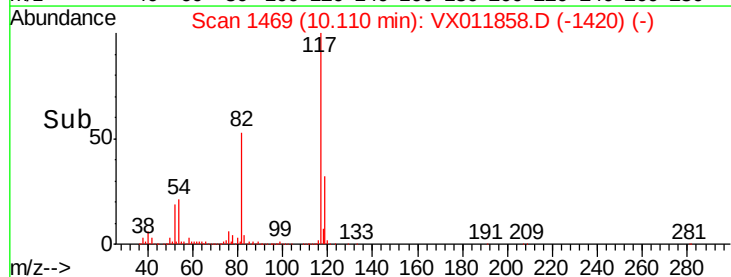
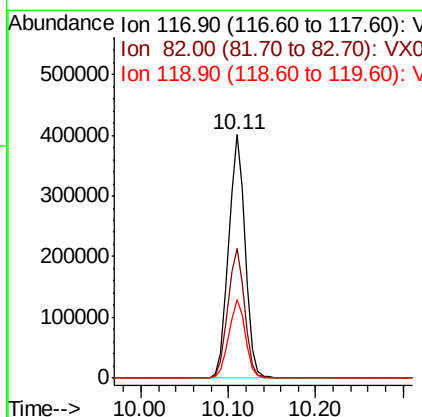
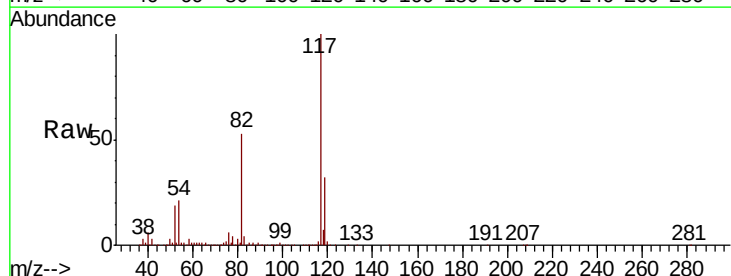
Instrument :
MSVOA_X
ClientSampleId :
T9-12-13-A2(0)

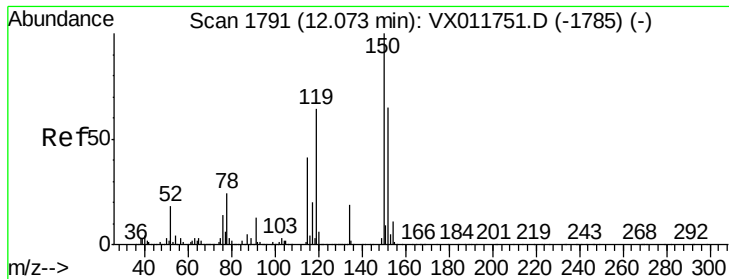
Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.8	0.0	197.4
176	92.8	0.0	194.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011858.D
Acq: 27 Aug 2019 18:24

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.2	41.7	62.5
119	32.4	26.2	39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-A2(0)

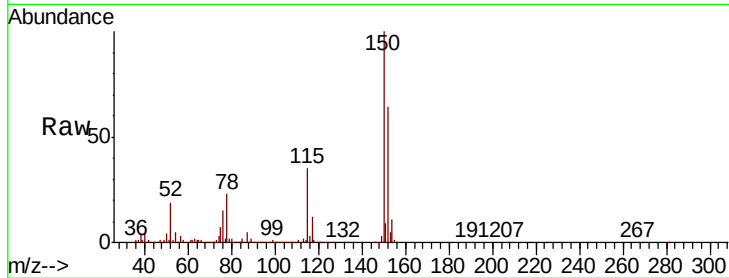
Tgt Ion:152 Resp: 258849

Ion Ratio Lower Upper

152 100

115 53.6 37.3 111.8

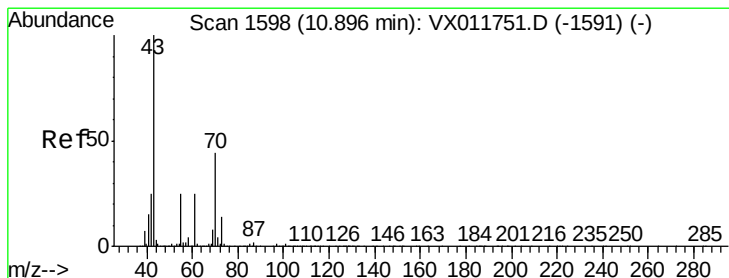
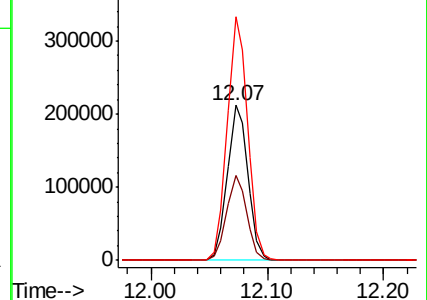
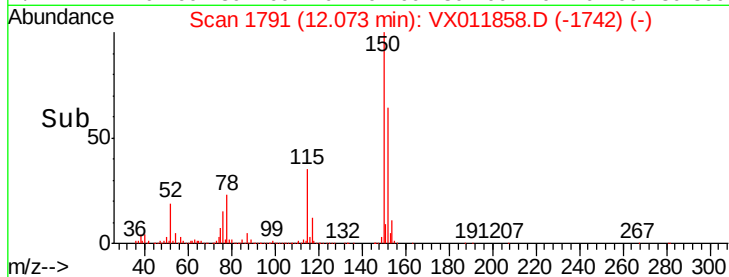
150 155.6 0.0 343.0



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: 0.570 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

Tgt Ion: 43 Resp: 3443

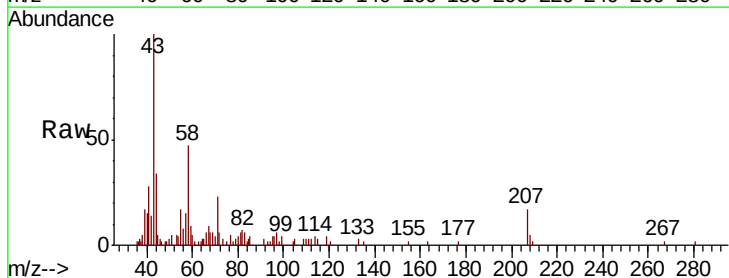
Ion Ratio Lower Upper

43 100

70 2.7 34.8 52.2#

55 3.7 19.5 29.3#

61 0.0 19.8 29.6#

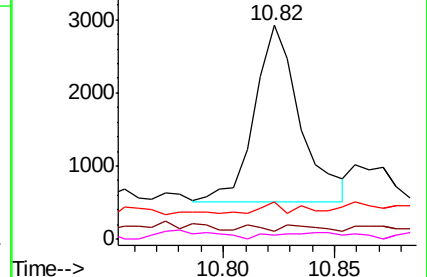
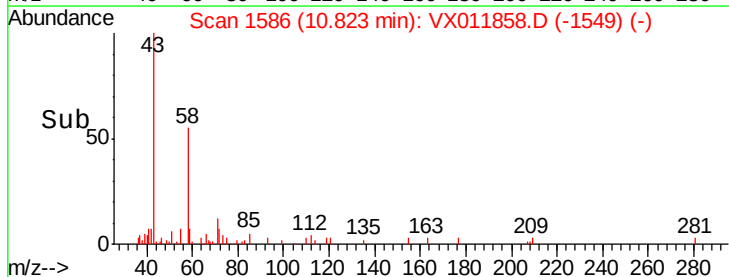


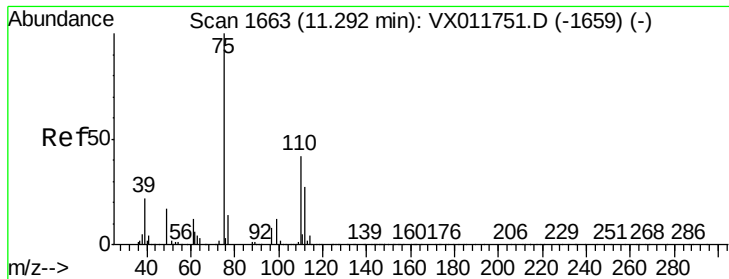
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 27.131 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

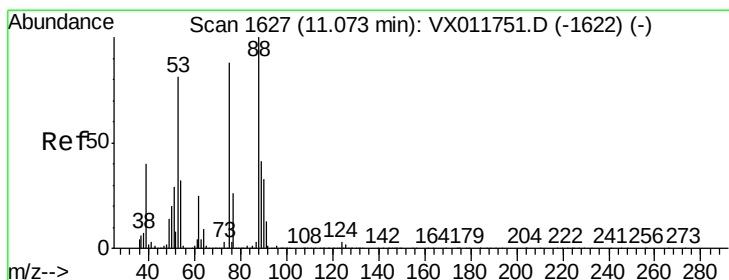
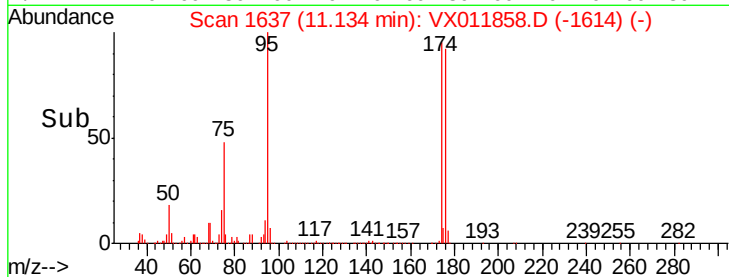
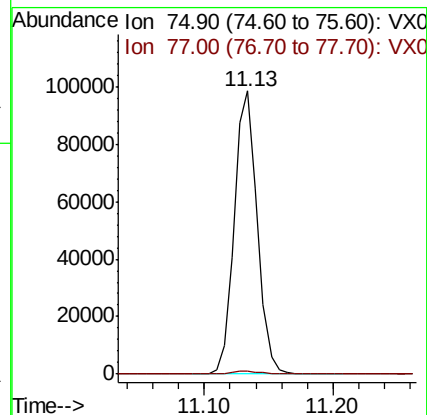
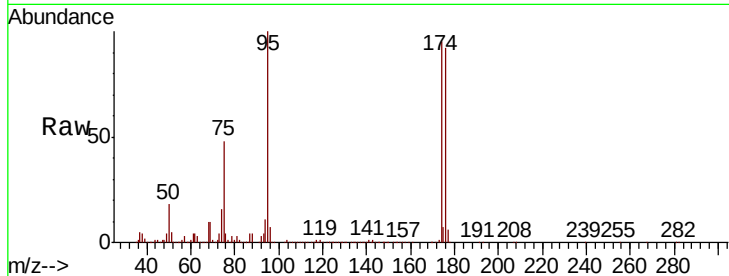
T9-12-13-A2(0)

Tgt Ion: 75 Resp: 123230

Ion Ratio Lower Upper

75 100

77 1.2 21.1 63.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.822 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011858.D

Acq: 27 Aug 2019 18:24

Tgt Ion: 75 Resp: 123230

Ion Ratio Lower Upper

75 100

53 0.1 77.1 115.7#

89 0.0 38.5 57.7#

