

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011442.D
 Acq On : 11 Aug 2019 19:22
 Operator : JC/SP
 Sample : K4238-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-18

Quant Time: Aug 12 07:51:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	202762	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	302042	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	274203	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	122073	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	107346	52.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.14%	
35) Dibromofluoromethane	5.49	113	91260	46.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.56%	
50) Toluene-d8	8.71	98	360251	48.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.80%	
62) 4-Bromofluorobenzene	11.13	95	118488	44.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.18%	

Target Compounds

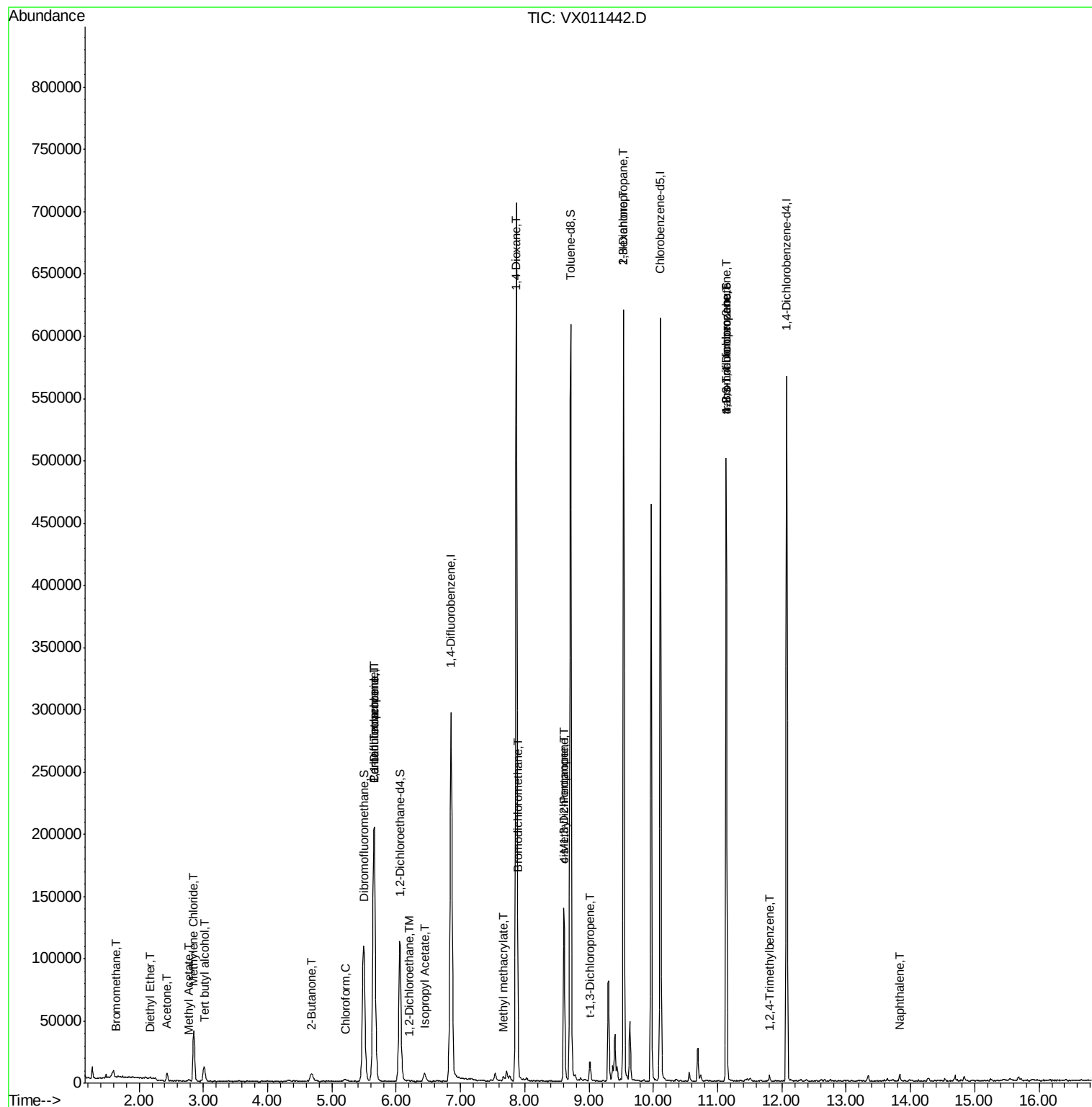
					Qvalue	
5) Bromomethane	1.64	94	350	0.254	ug/l #	39
6) Chloroethane	1.71	64	179	Below Cal	#	43
8) Diethyl Ether	2.18	74	297	0.242	ug/l	71
11) Tert butyl alcohol	3.01	59	6996	17.203	ug/l #	79
13) Acrolein	2.28	56	70	Below Cal	#	15
16) Acetone	2.43	43	7244	7.453	ug/l	94
18) Methyl Acetate	2.77	43	1510	0.680	ug/l	98
20) Methylene Chloride	2.85	84	19340	9.086	ug/l	97
25) 2-Butanone	4.68	43	3473	2.512	ug/l	95
30) Chloroform	5.21	83	1898	0.548	ug/l	87
36) 1,1-Dichloropropene	5.66	75	13595	5.155	ug/l #	45
38) Carbon Tetrachloride	5.66	117	19413	7.317	ug/l #	14
42) 1,2-Dichloroethane	6.19	62	561	0.211	ug/l #	72
43) Isopropyl Acetate	6.45	43	9120	2.156	ug/l #	94
47) Bromodichloromethane	7.90	83	605	0.240	ug/l #	83
48) Methyl methacrylate	7.68	41	4294	2.157	ug/l #	10
49) 1,4-Dioxane	7.87	88	107	1.854	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	45010	16.491	ug/l #	48
53) t-1,3-Dichloropropene	9.02	75	42	2.852	ug/l #	1
54) cis-1,3-Dichloropropene	8.61	75	22044	7.492	ug/l #	68
57) 1,3-Dichloropropane	9.54	76	5338	1.578	ug/l #	41
59) 2-Hexanone	9.54	43	70709	33.448	ug/l #	49
76) 1,2,3-Trichloropropane	11.13	75	61022	27.449	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	61022	71.187	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	1395	0.200	ug/l	88
95) Naphthalene	13.83	128	3235	0.406	ug/l #	94

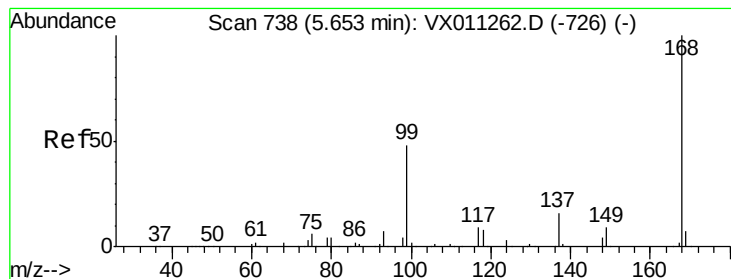
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

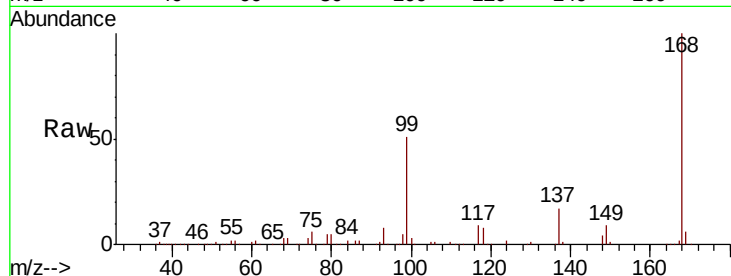
TP-18

Tgt Ion:168 Resp: 202762

Ion Ratio Lower Upper

168 100

99 50.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

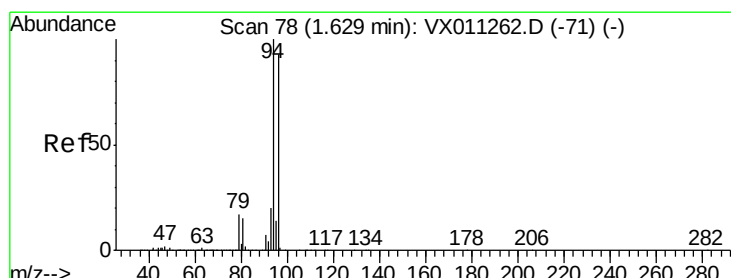
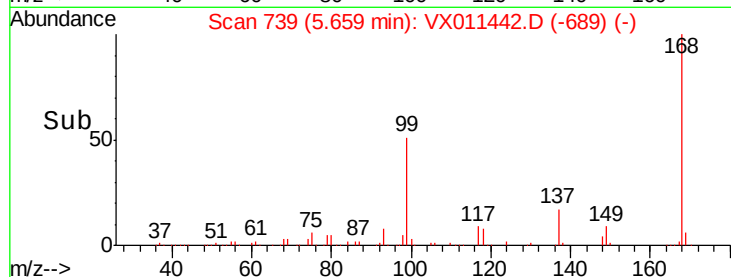
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.254 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011442.D

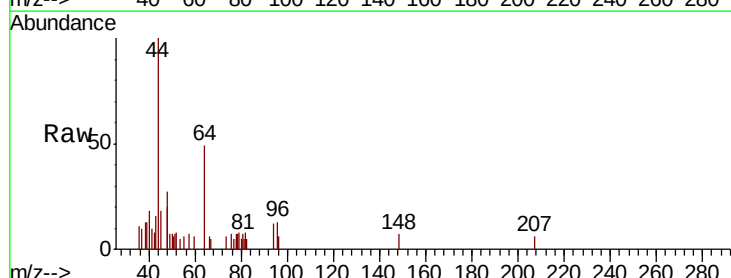
Acq: 11 Aug 2019 19:22

Tgt Ion: 94 Resp: 350

Ion Ratio Lower Upper

94 100

96 151.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

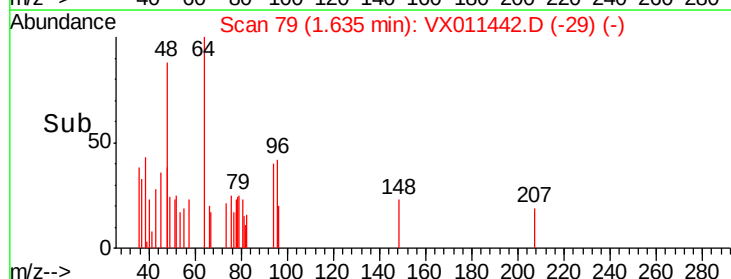
150

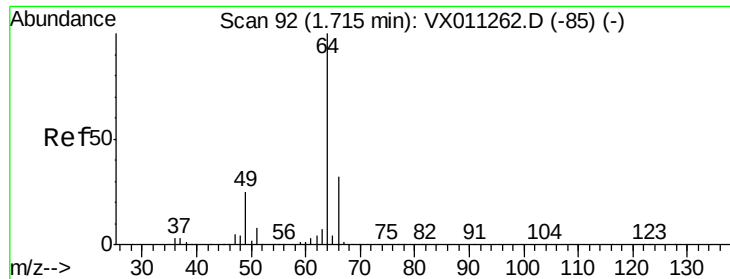
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

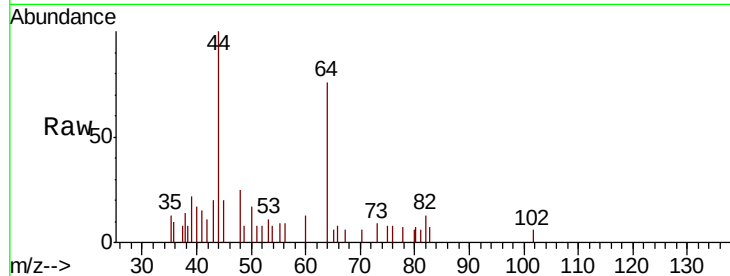
TP-18

Tgt Ion: 64 Resp: 179

Ion Ratio Lower Upper

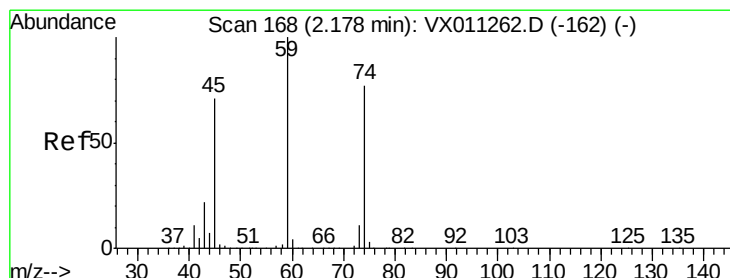
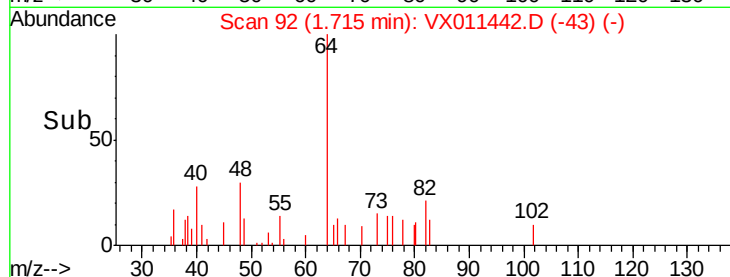
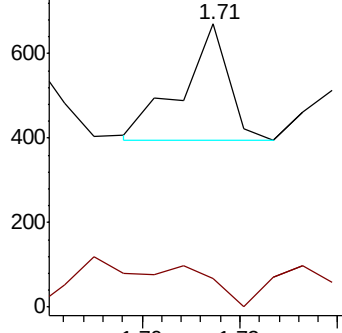
64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.242 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011442.D

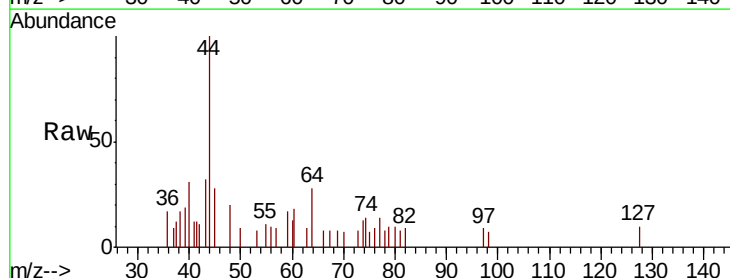
Acq: 11 Aug 2019 19:22

Tgt Ion: 74 Resp: 297

Ion Ratio Lower Upper

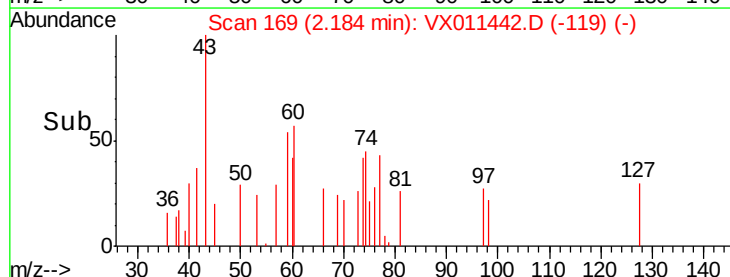
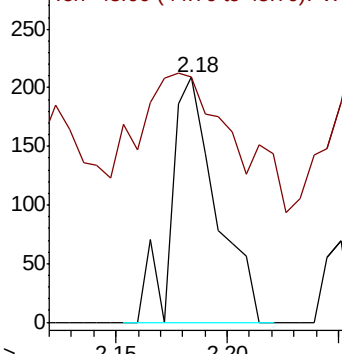
74 100

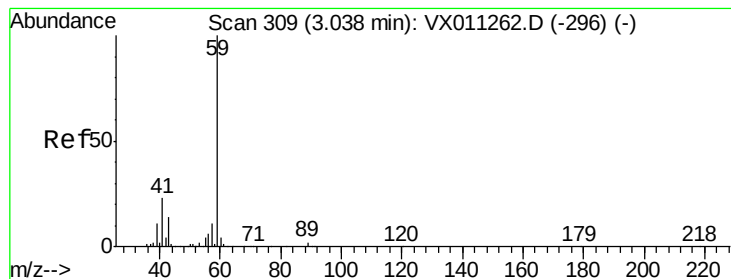
45 119.9 46.1 138.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#11

Tert butyl alcohol

Concen: 17.203 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

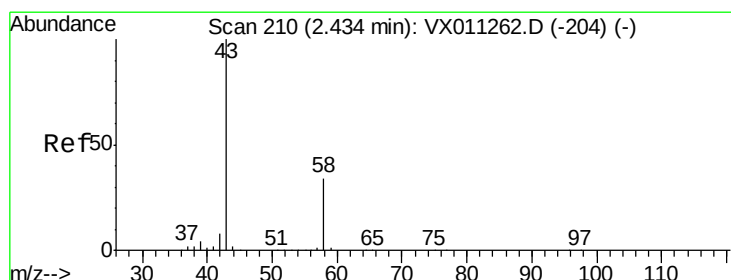
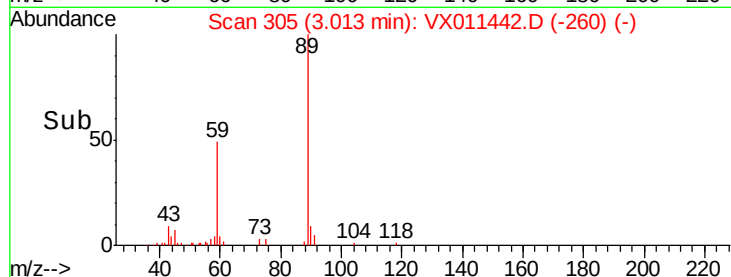
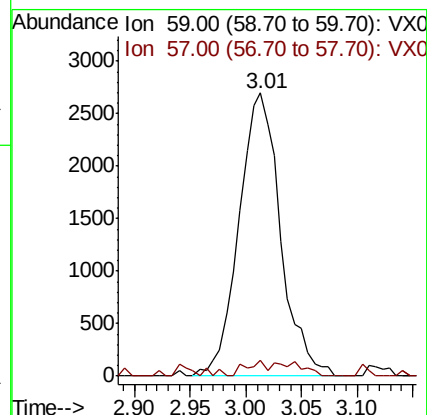
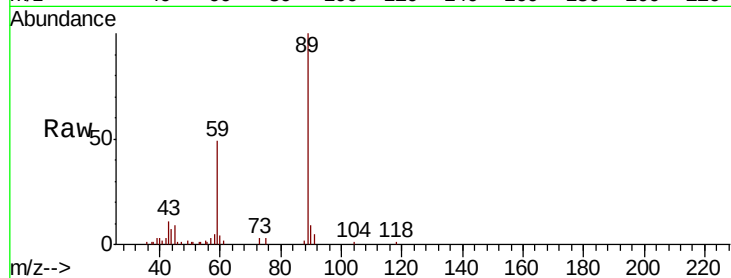
TP-18

Tgt Ion: 59 Resp: 6996

Ion Ratio Lower Upper

59 100

57 2.5 8.3 12.5#



#16

Acetone

Concen: 7.453 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011442.D

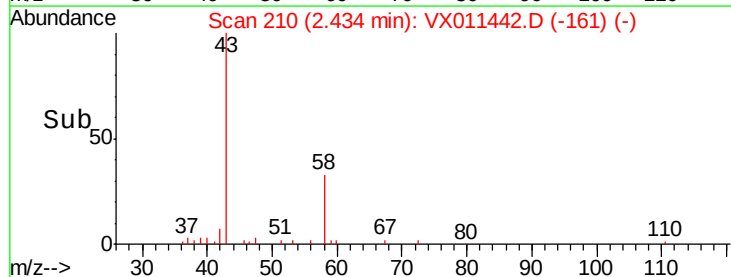
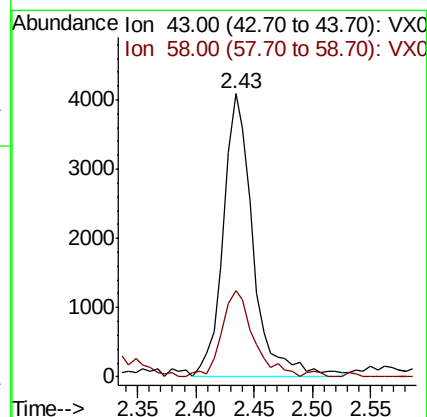
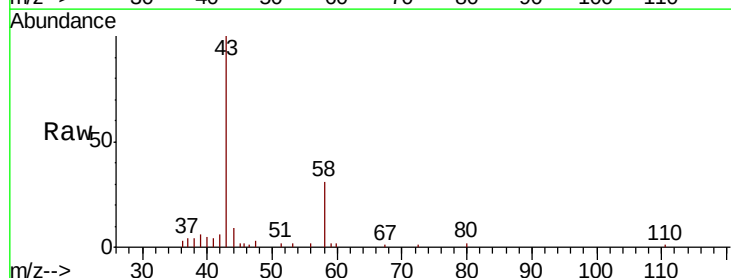
Acq: 11 Aug 2019 19:22

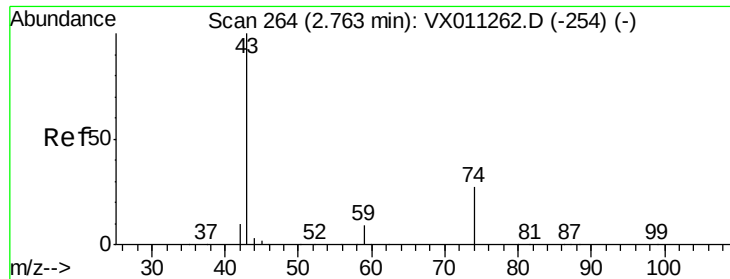
Tgt Ion: 43 Resp: 7244

Ion Ratio Lower Upper

43 100

58 30.5 27.4 41.0

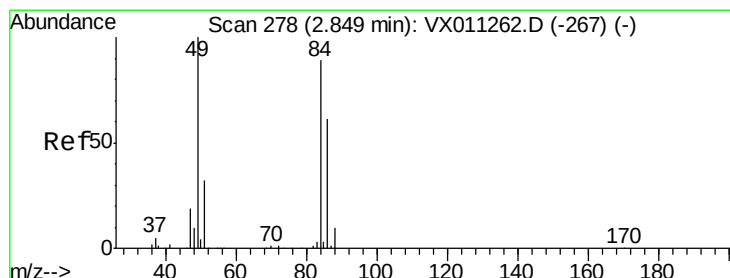
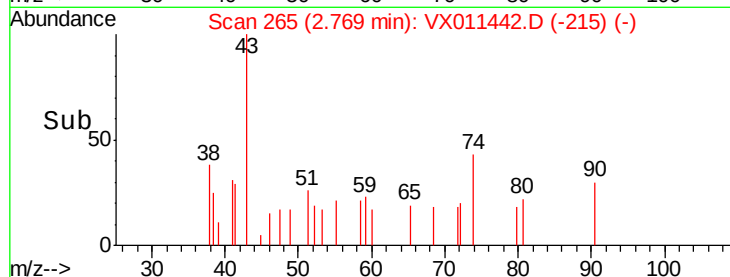
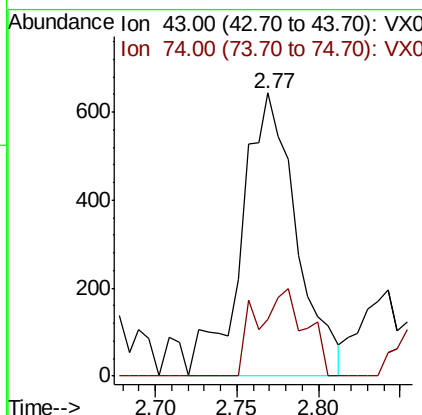
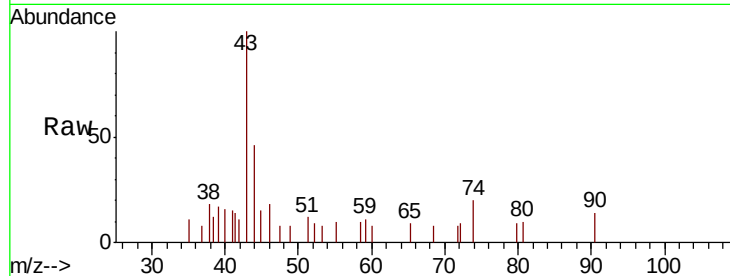




#18
Methyl Acetate
Concen: 0.680 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

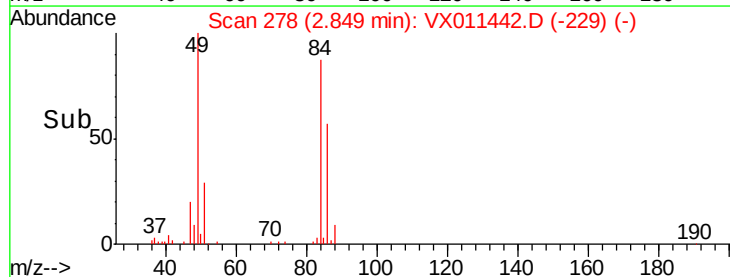
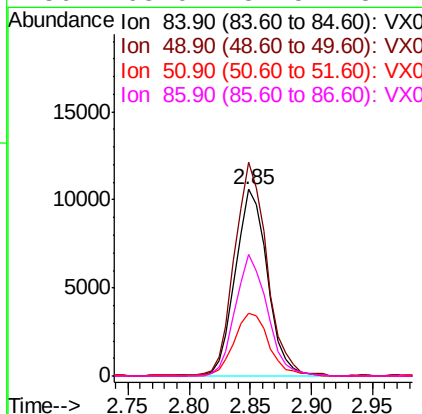
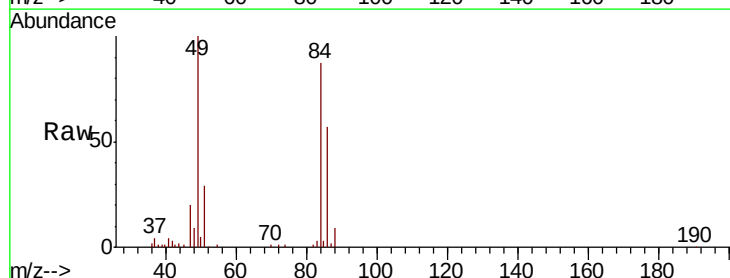
Instrument :
MSVOA_X
ClientSampled :
TP-18

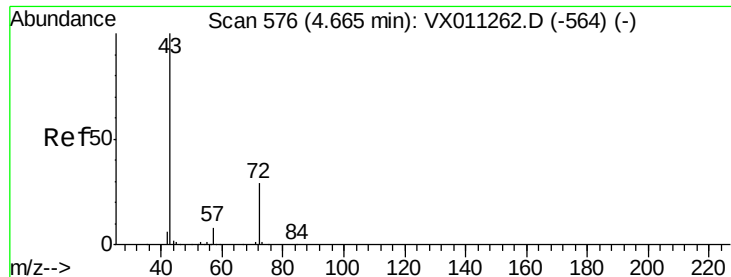
Tgt Ion: 43 Resp: 1510
Ion Ratio Lower Upper
43 100
74 27.2 21.0 31.6



#20
Methylene Chloride
Concen: 9.086 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

Tgt Ion: 84 Resp: 19340
Ion Ratio Lower Upper
84 100
49 114.6 89.3 133.9
51 33.8 28.3 42.5
86 65.0 54.5 81.7





#25

2-Butanone

Concen: 2.512 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

Instrument :

MSVOA_X

ClientSampled :

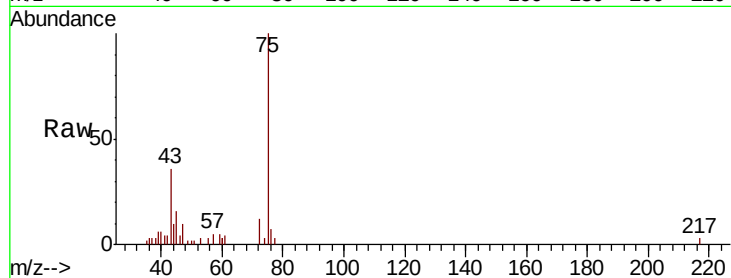
TP-18

Tgt Ion: 43 Resp: 3473

Ion Ratio Lower Upper

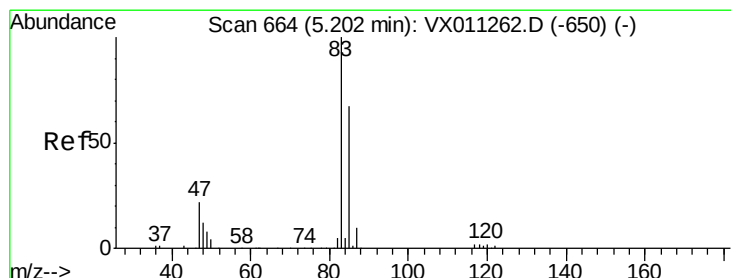
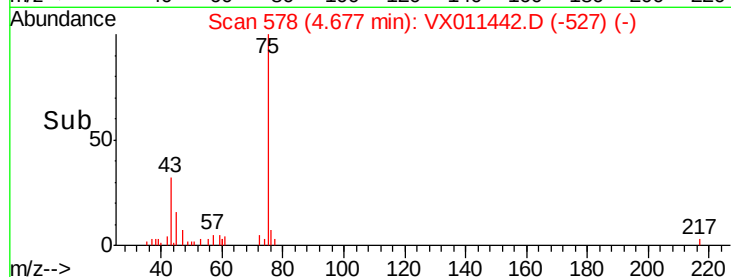
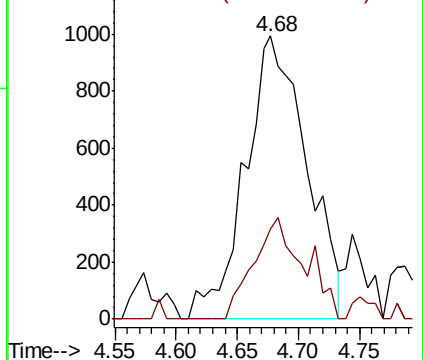
43 100

72 31.9 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#30

Chloroform

Concen: 0.548 ug/l

RT: 5.21 min Scan# 665

Delta R.T. 0.01 min

Lab File: VX011442.D

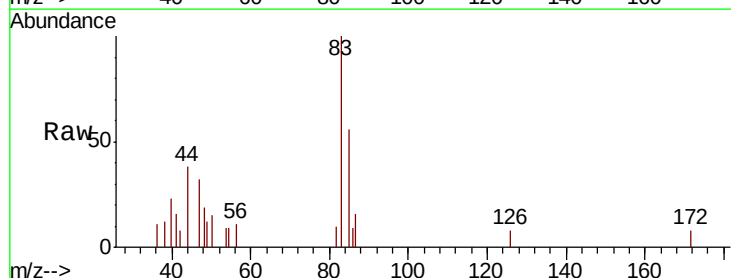
Acq: 11 Aug 2019 19:22

Tgt Ion: 83 Resp: 1898

Ion Ratio Lower Upper

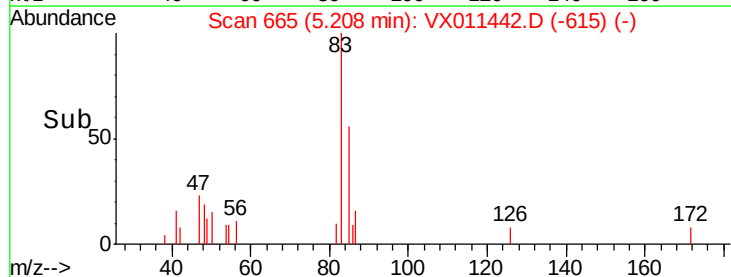
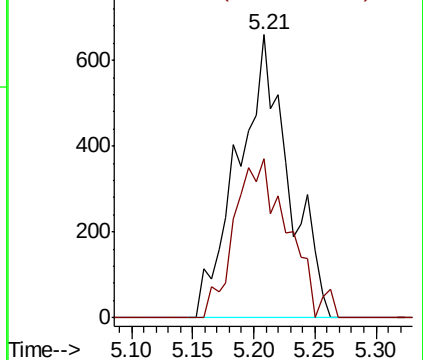
83 100

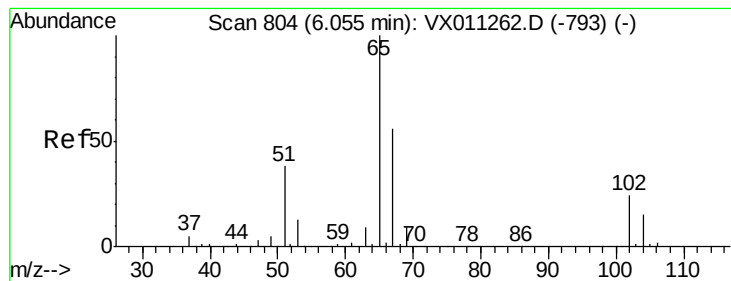
85 56.3 53.4 80.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.571 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

Instrument :

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ClientSampleId :

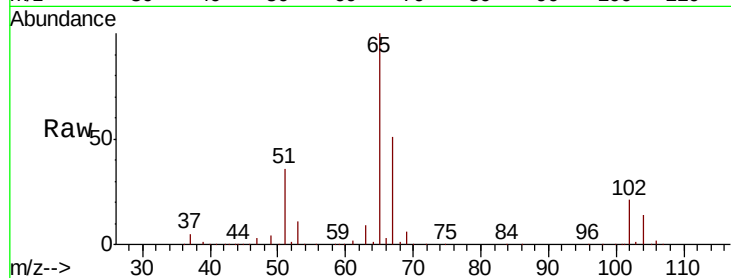
TP-18

Tgt Ion: 65 Resp: 107346

Ion Ratio Lower Upper

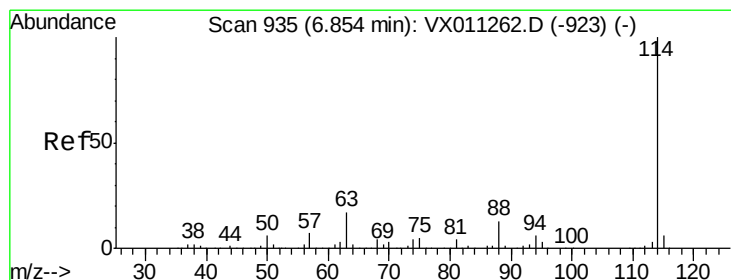
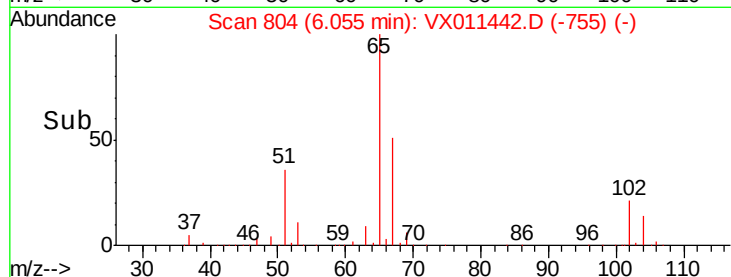
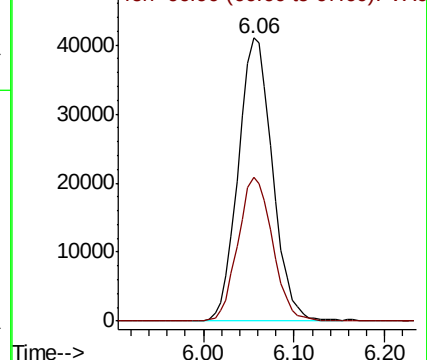
65 100

67 51.4 0.0 110.6



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: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

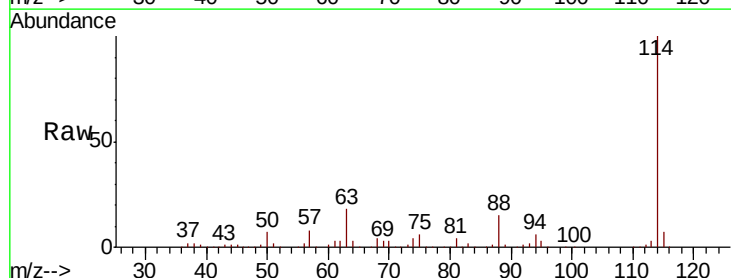
Tgt Ion: 114 Resp: 302042

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.0

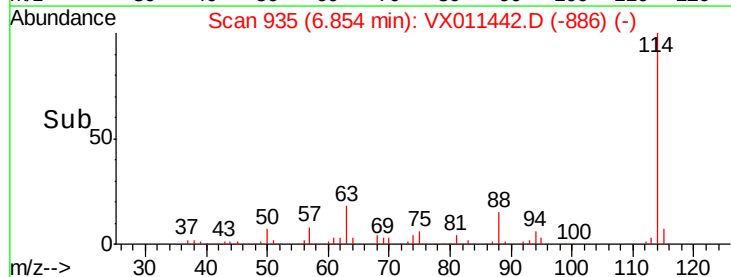
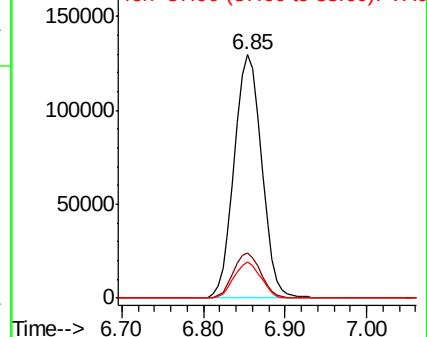
88 15.1 0.0 26.4

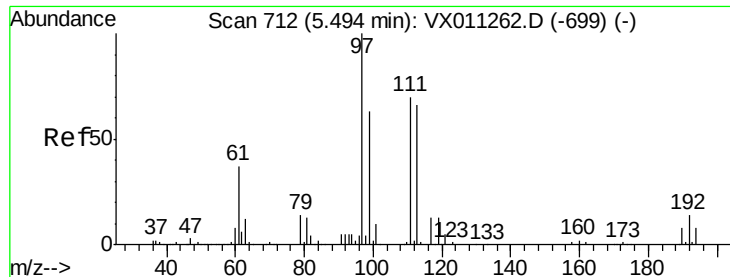


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

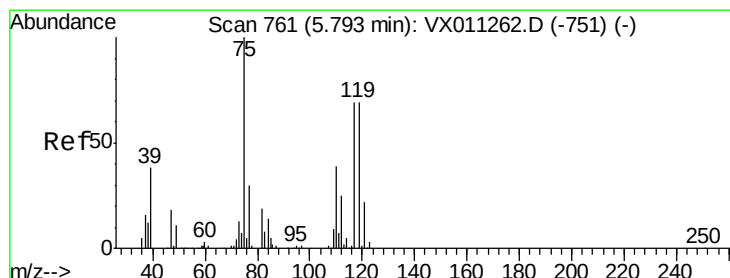
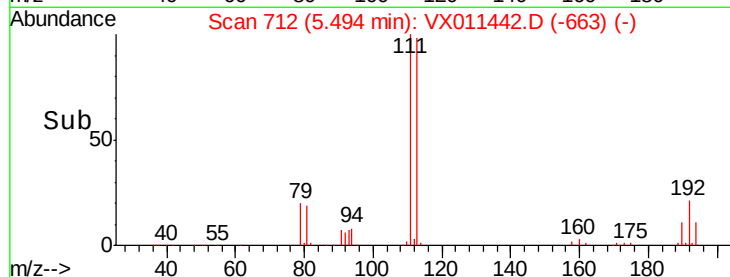
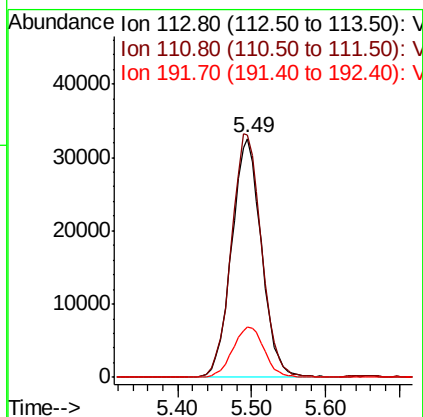
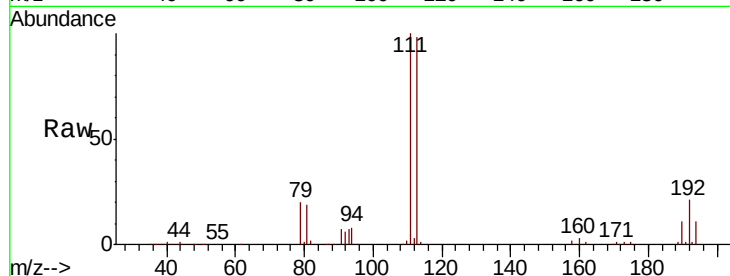




#35
 Dibromofluoromethane
 Concen: 46.279 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX011442.D
 Acq: 11 Aug 2019 19:22

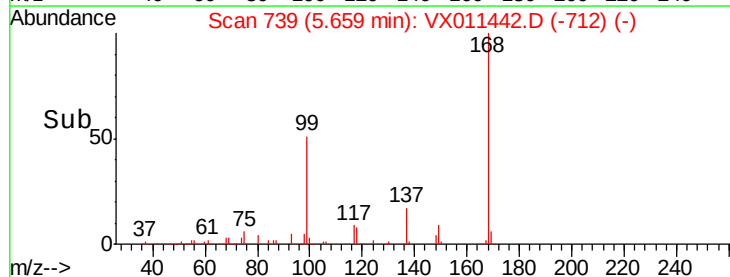
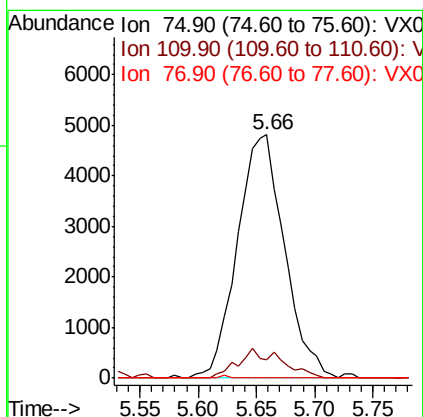
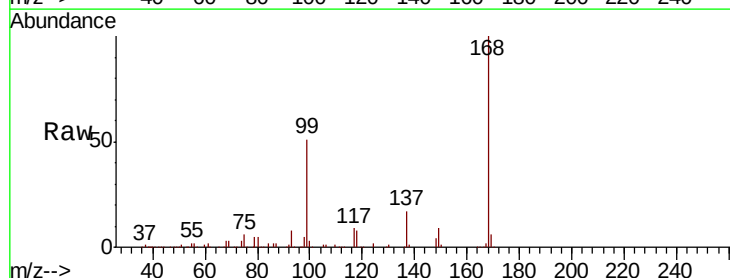
Instrument :
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 TP-18

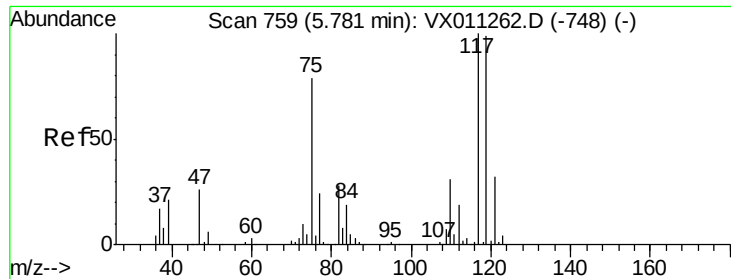
Tgt Ion: 113 Resp: 91260
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.9 122.9
 192 22.1 17.8 26.8



#36
 1,1-Dichloropropene
 Concen: 5.155 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011442.D
 Acq: 11 Aug 2019 19:22

Tgt Ion: 75 Resp: 13595
 Ion Ratio Lower Upper
 75 100
 110 6.8 20.0 59.9#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 7.317 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

Instrument :

MSVOA_X

ClientSampled :

TP-18

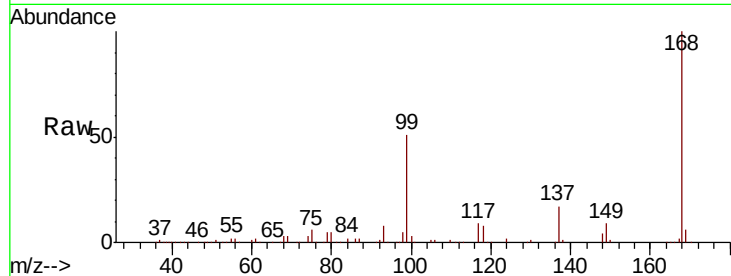
Tgt Ion:117 Resp: 19413

Ion Ratio Lower Upper

117 100

119 4.4 79.0 118.4#

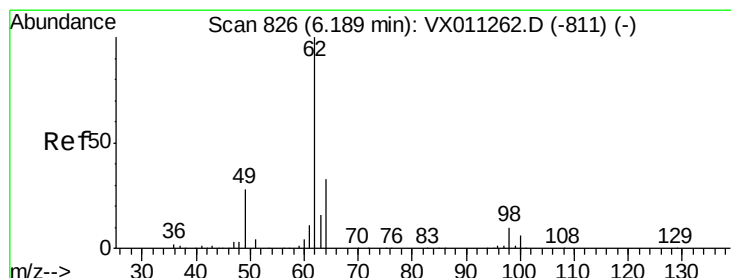
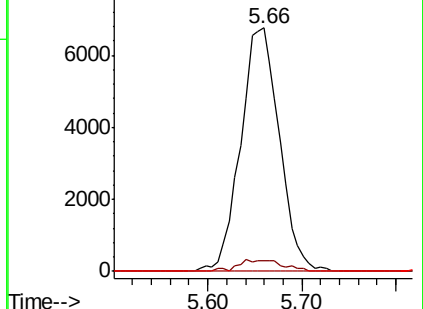
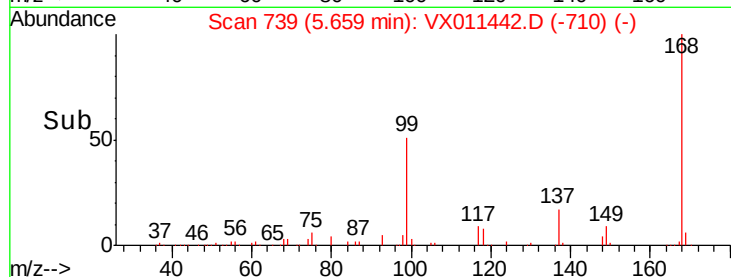
121 0.0 25.9 38.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#42

1,2-Dichloroethane

Concen: 0.211 ug/l

RT: 6.19 min Scan# 826

Delta R.T. -0.00 min

Lab File: VX011442.D

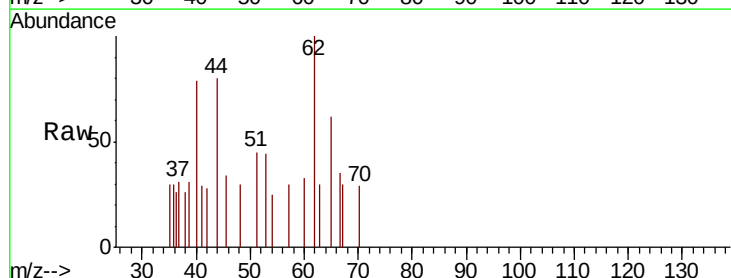
Acq: 11 Aug 2019 19:22

Tgt Ion: 62 Resp: 561

Ion Ratio Lower Upper

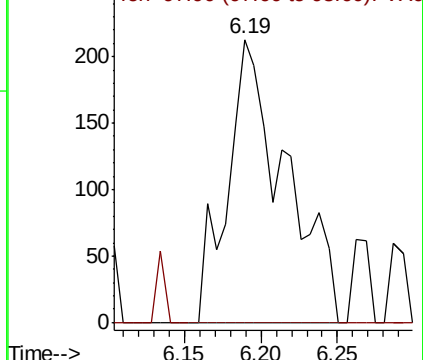
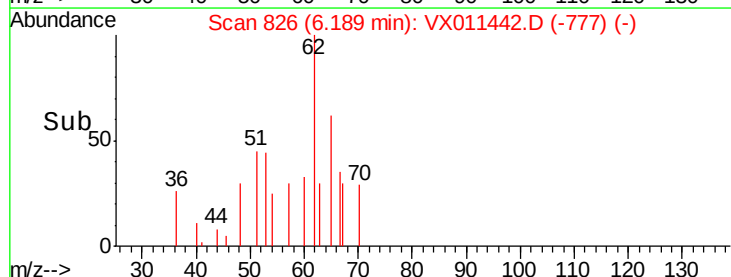
62 100

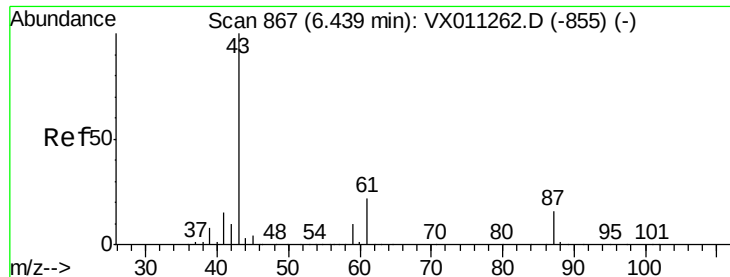
98 0.0 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#43

Isopropyl Acetate

Concen: 2.156 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.01 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

Instrument :

MSVOA_X

ClientSampleId :

TP-18

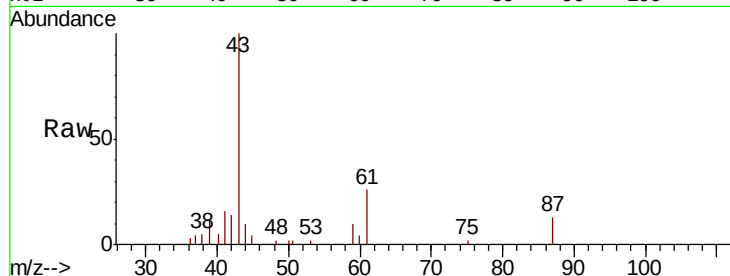
Tgt Ion: 43 Resp: 9120

Ion Ratio Lower Upper

43 100

61 25.3 16.5 24.7#

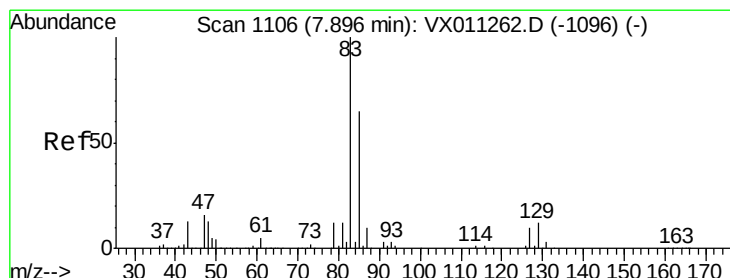
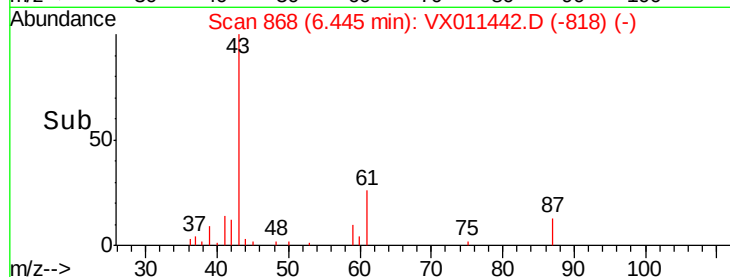
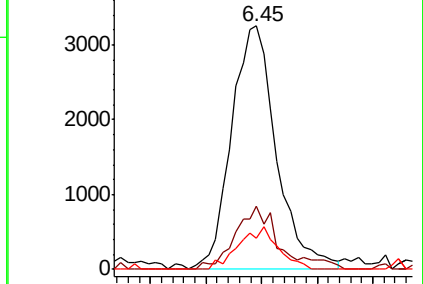
87 15.1 12.1 18.1



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



#47

Bromodichloromethane

Concen: 0.240 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

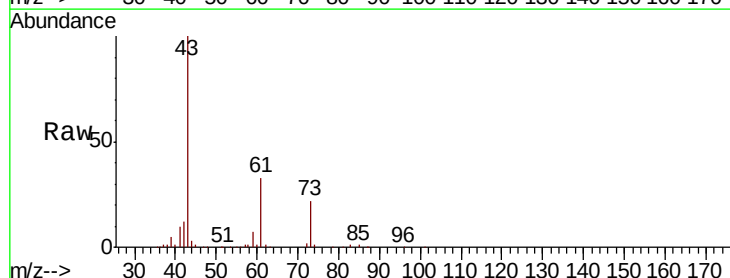
Tgt Ion: 83 Resp: 605

Ion Ratio Lower Upper

83 100

85 52.8 52.2 78.2

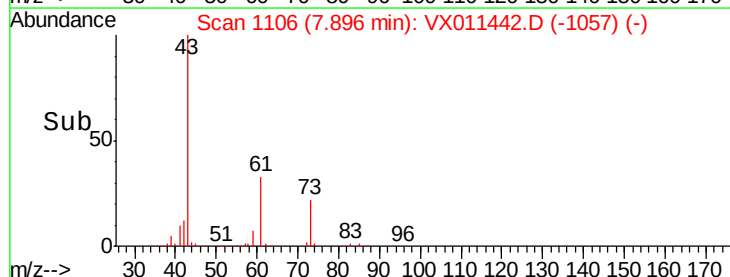
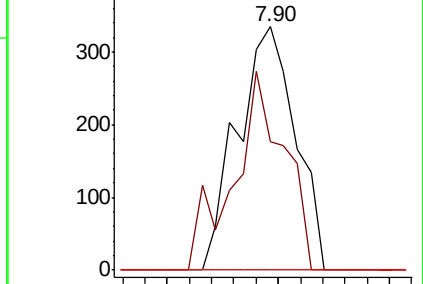
127 0.0 7.8 11.8#

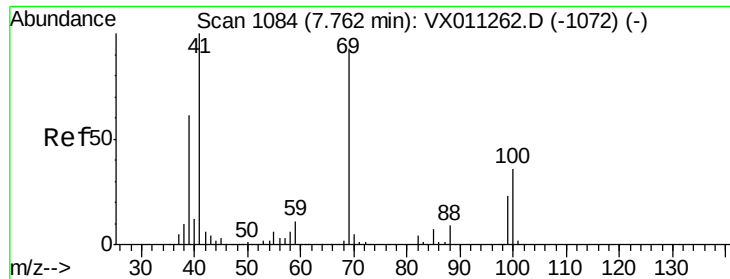


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

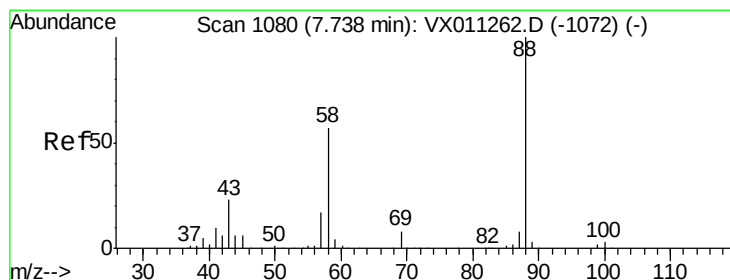
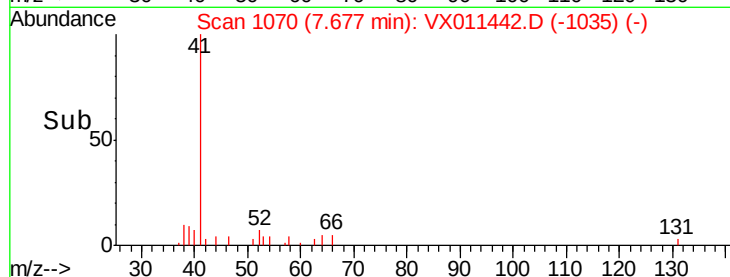
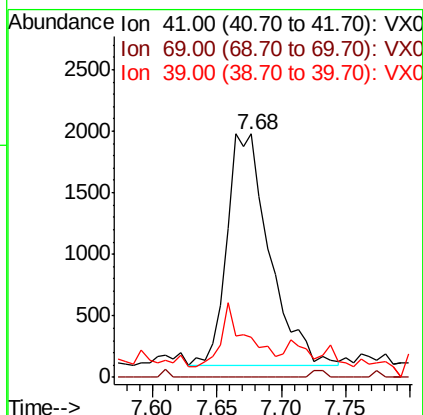
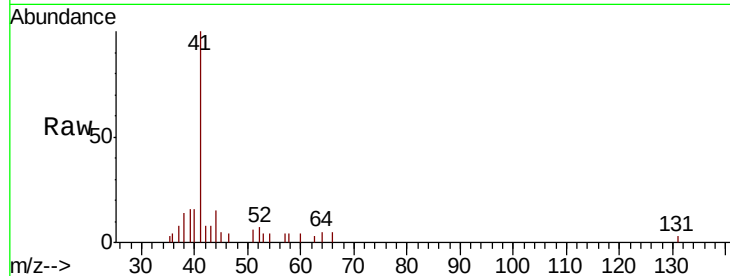




#48
Methyl methacrylate
Concen: 2.157 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

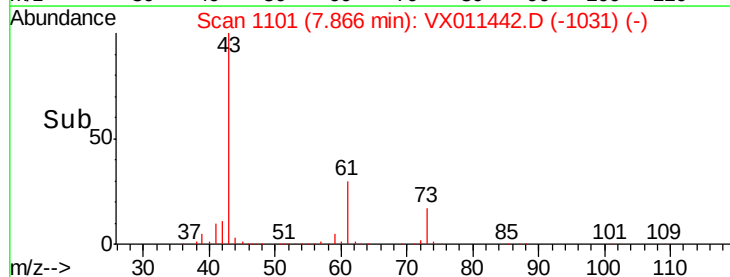
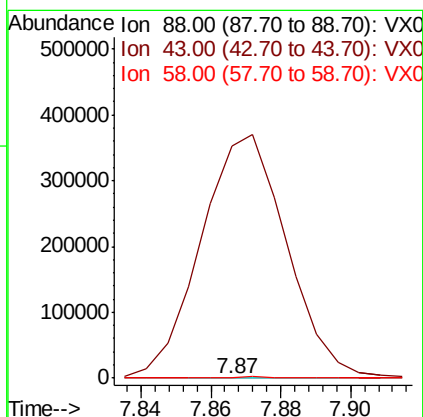
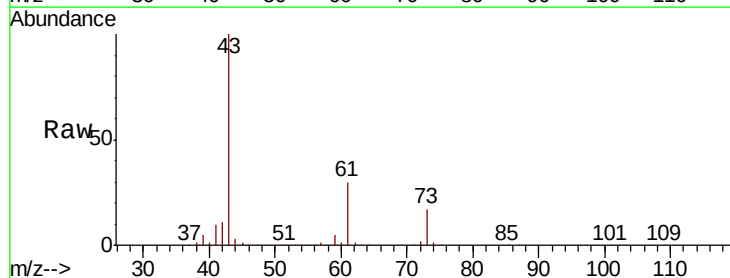
Instrument :
MSVOA_X
ClientSampled :
TP-18

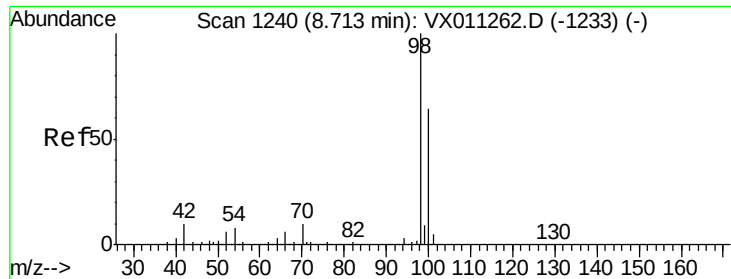
Tgt Ion: 41 Resp: 4294
Ion Ratio Lower Upper
41 100
69 0.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 1.854 ug/l
RT: 7.87 min Scan# 1101
Delta R.T. 0.13 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

Tgt Ion: 88 Resp: 107
Ion Ratio Lower Upper
88 100
43 594107.5 22.2 33.2#
58 2846.7 47.8 71.8#

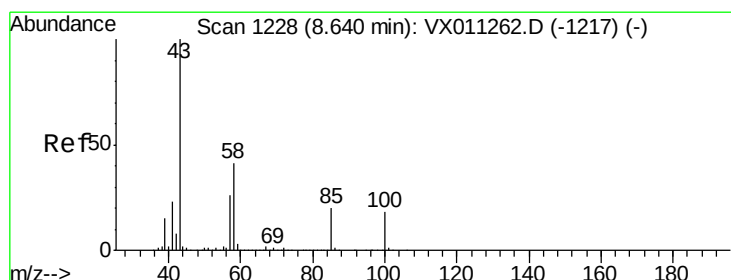
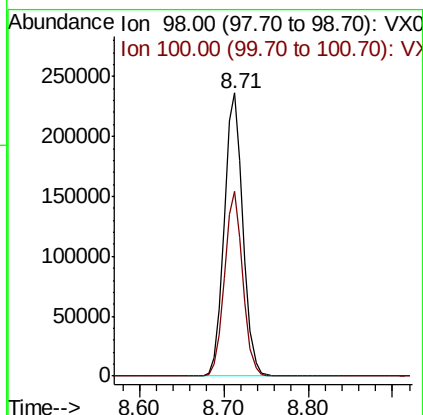
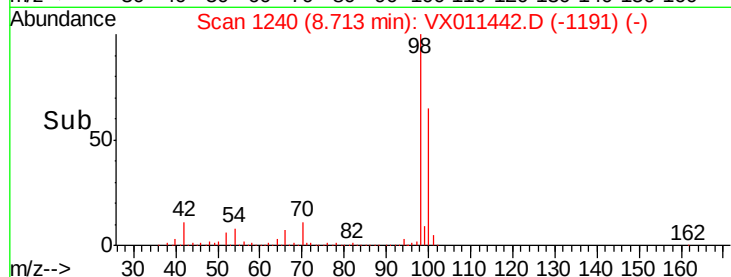
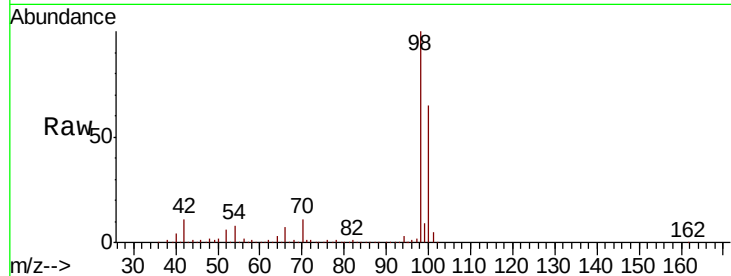




#50
Toluene-d8
Concen: 48.398 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

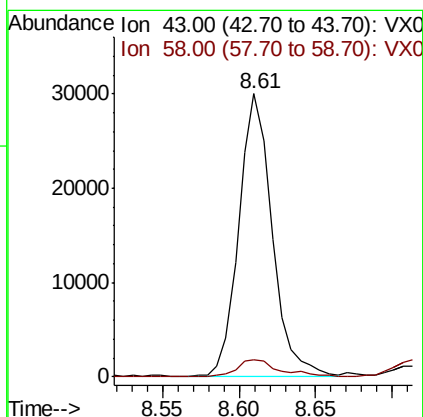
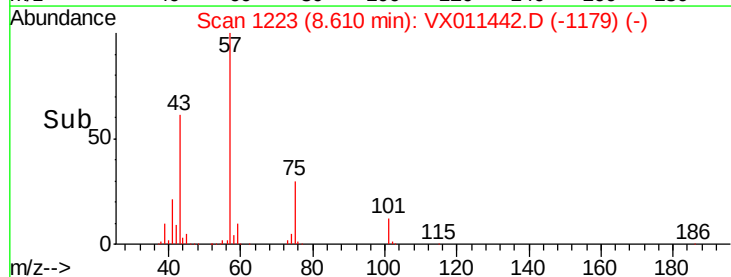
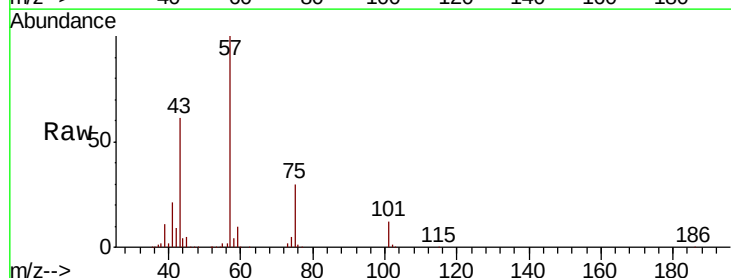
Instrument :
MSVOA_X
ClientSampled :
TP-18

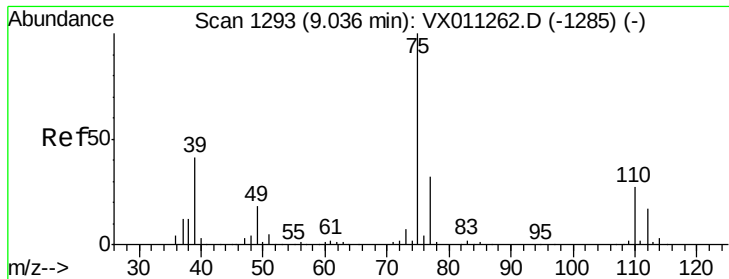
Tgt Ion: 98 Resp: 360251
Ion Ratio Lower Upper
98 100
100 64.0 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 16.491 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

Tgt Ion: 43 Resp: 45010
Ion Ratio Lower Upper
43 100
58 7.8 32.3 48.5#





#53

t-1,3-Dichloropropene

Concen: 2.852 ug/l

RT: 9.02 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

Instrument :

MSVOA_X

ClientSampled :

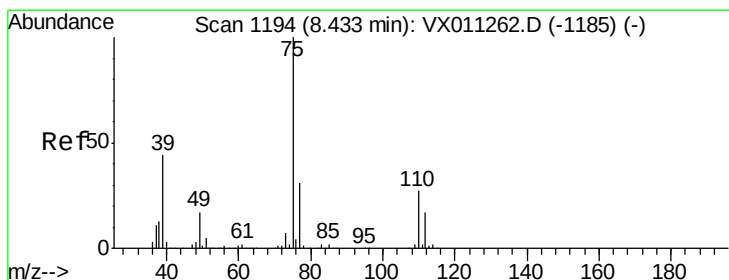
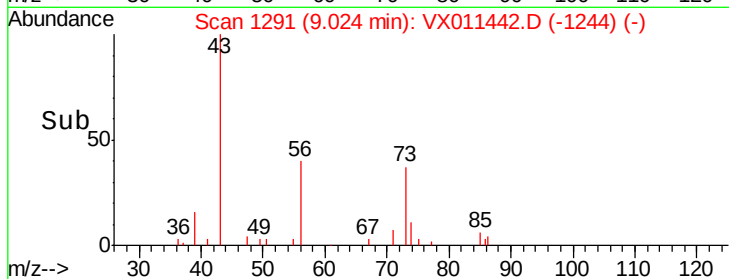
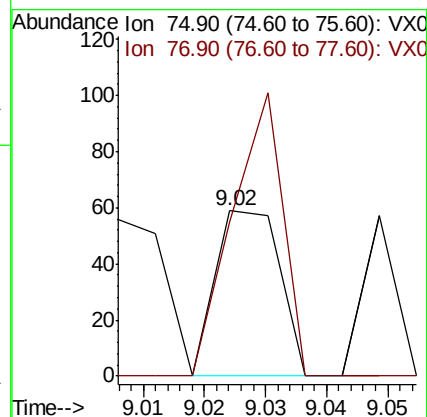
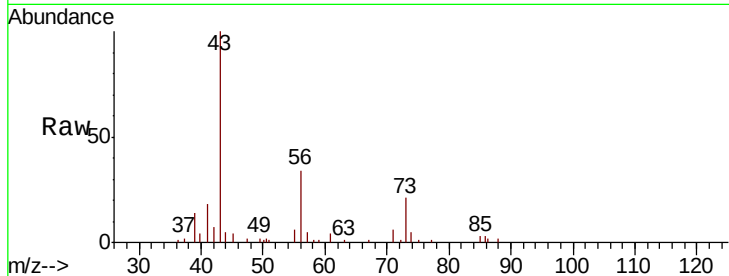
TP-18

Tgt Ion: 75 Resp: 42

Ion Ratio Lower Upper

75 100

77 93.2 25.4 38.0#



#54

cis-1,3-Dichloropropene

Concen: 7.492 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011442.D

Acq: 11 Aug 2019 19:22

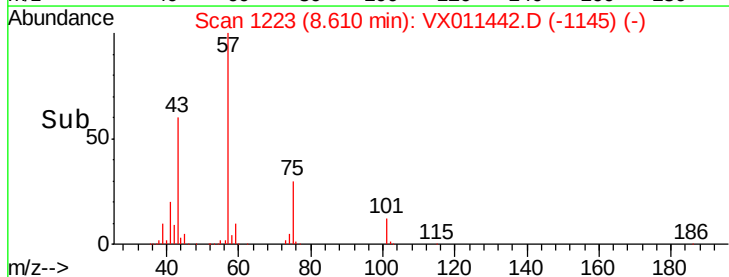
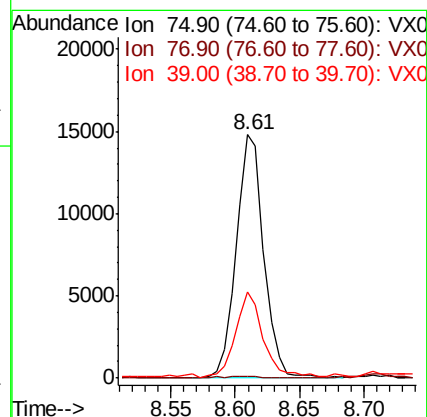
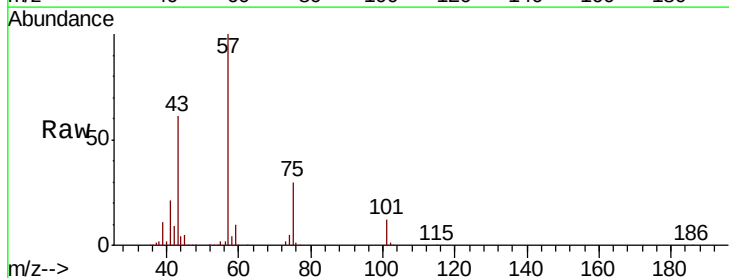
Tgt Ion: 75 Resp: 22044

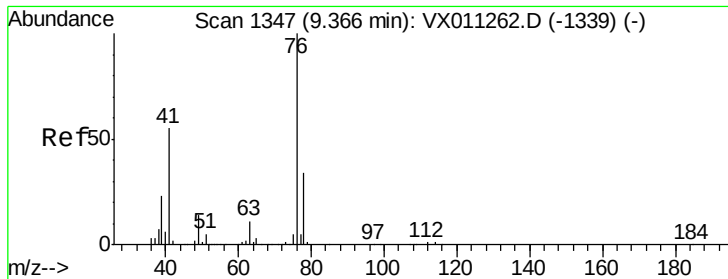
Ion Ratio Lower Upper

75 100

77 0.7 25.0 37.6#

39 34.2 35.3 52.9#

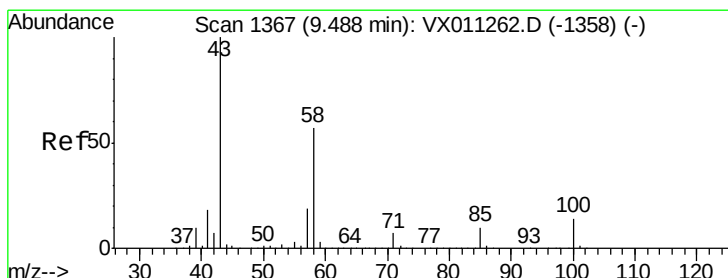
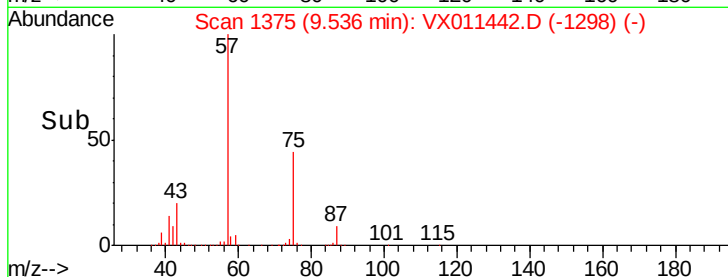
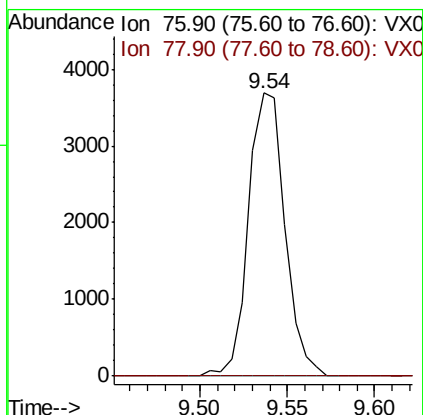
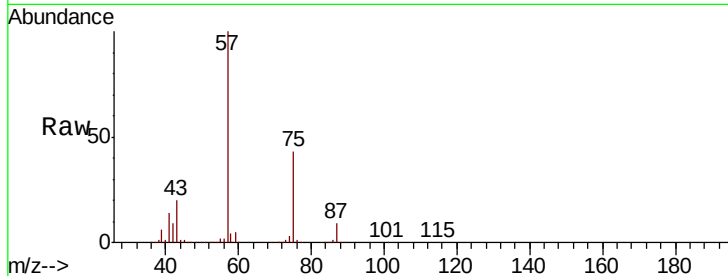




#57
 1,3-Dichloropropane
 Concen: 1.578 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011442.D
 Acq: 11 Aug 2019 19:22

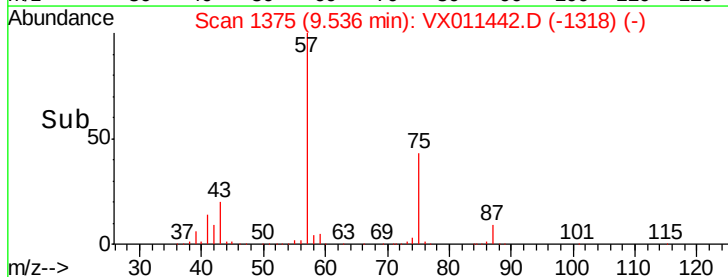
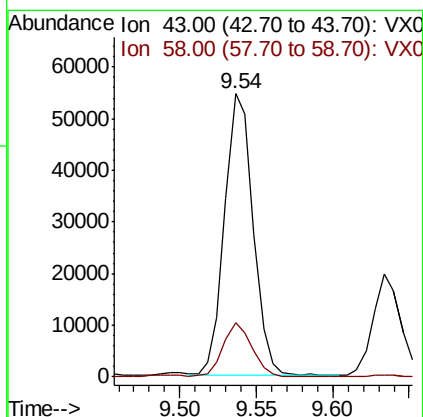
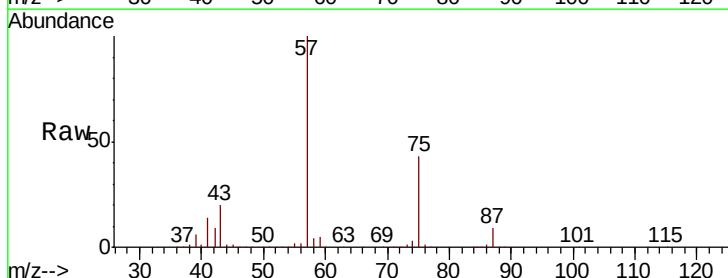
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-18

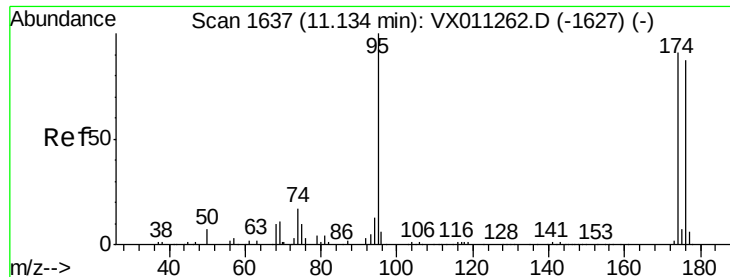
Tgt Ion: 76 Resp: 5338
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.6 40.0#



#59
 2-Hexanone
 Concen: 33.448 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011442.D
 Acq: 11 Aug 2019 19:22

Tgt Ion: 43 Resp: 70709
 Ion Ratio Lower Upper
 43 100
 58 19.0 28.2 84.6#

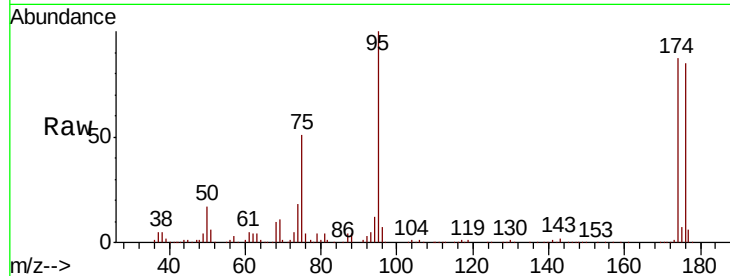




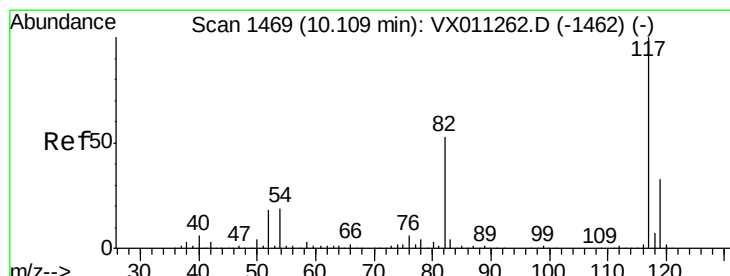
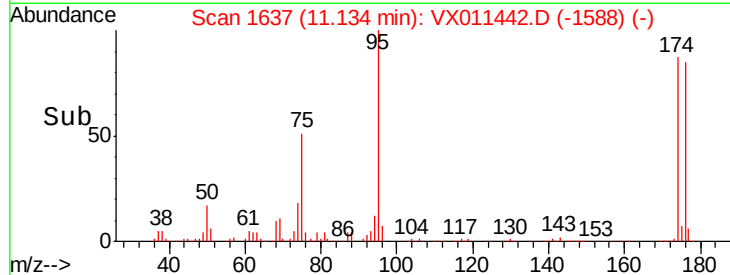
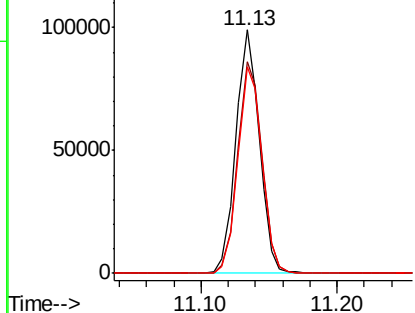
#62
4-Bromofluorobenzene
Concen: 44.585 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

Instrument :
MSVOA_X
ClientSampleId :
TP-18

Tgt Ion: 95 Resp: 118488
Ion Ratio Lower Upper
95 100
174 90.5 0.0 191.2
176 87.6 0.0 184.8

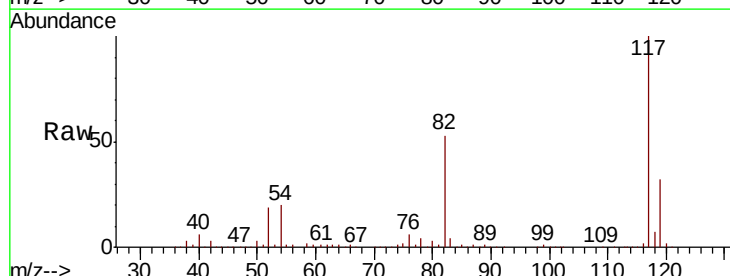


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

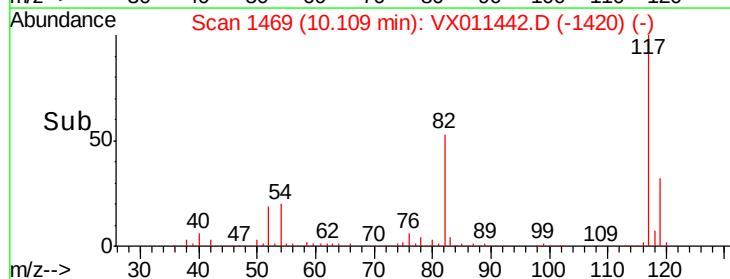
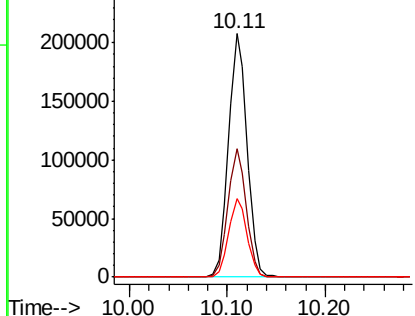


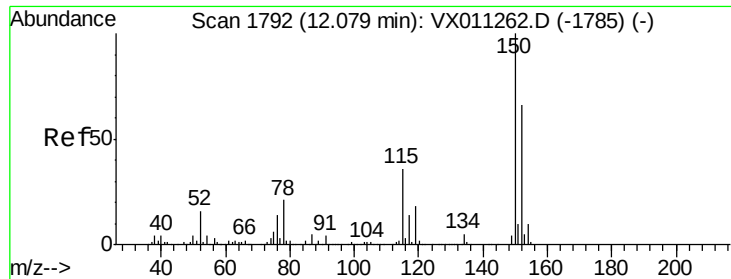
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

Tgt Ion: 117 Resp: 274203
Ion Ratio Lower Upper
117 100
82 52.9 42.2 63.2
119 32.3 26.6 39.8



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V



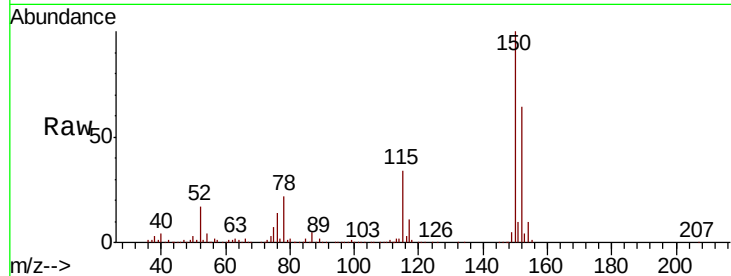


#72

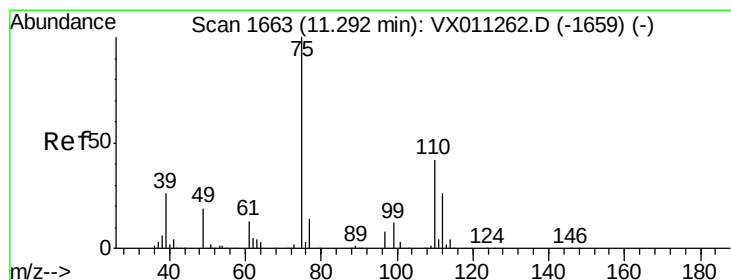
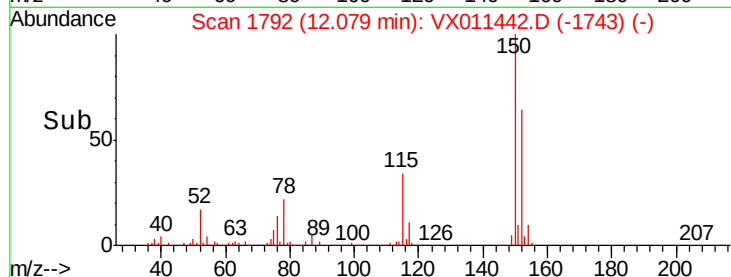
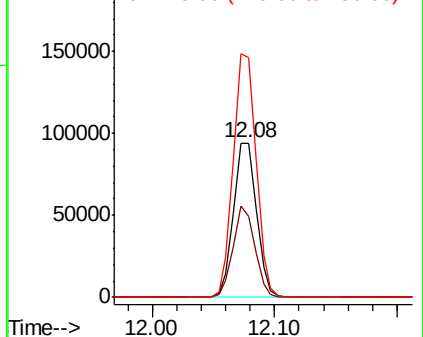
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

Instrument :
MSVOA_X
ClientSampleId :
TP-18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	40.0	119.9
150	156.4	0.0	350.4



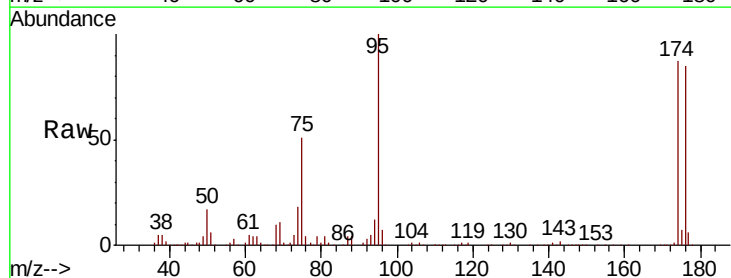
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



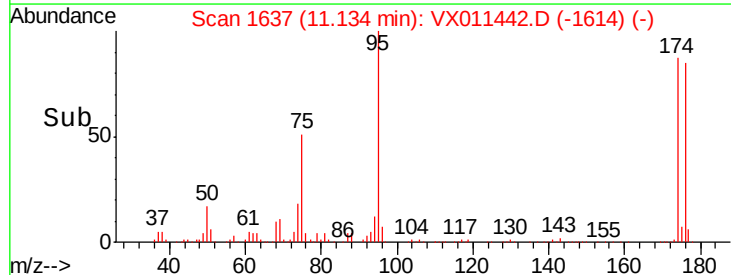
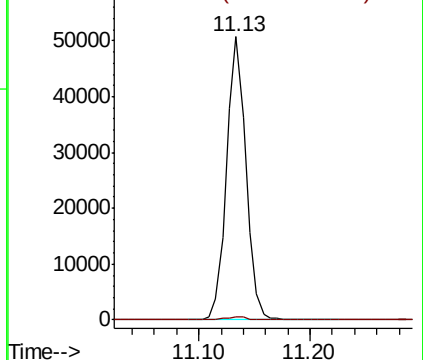
#76

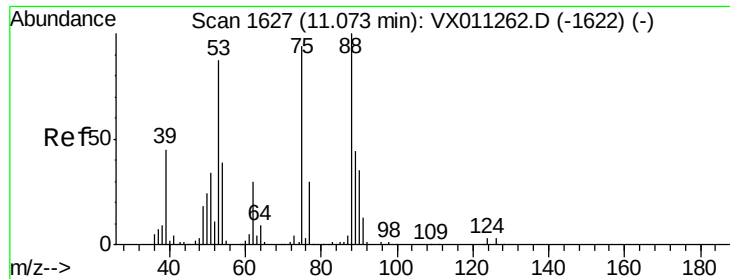
1,2,3-Trichloropropane
Concen: 27.449 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	21.1	63.4



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

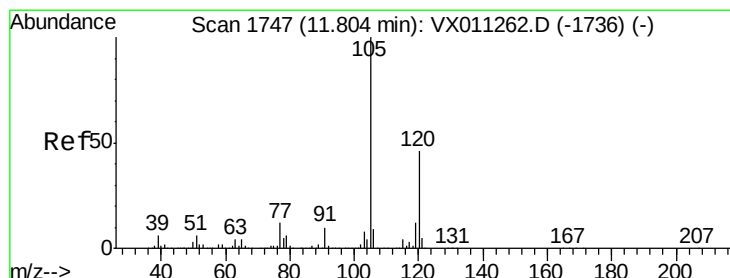
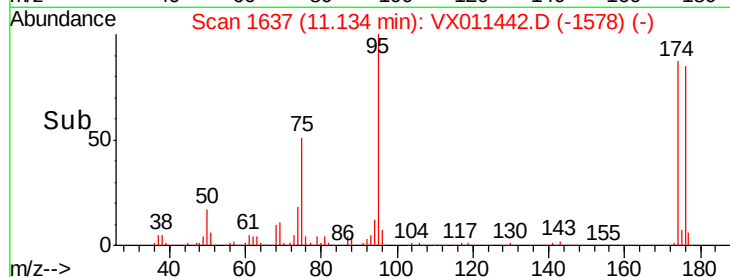
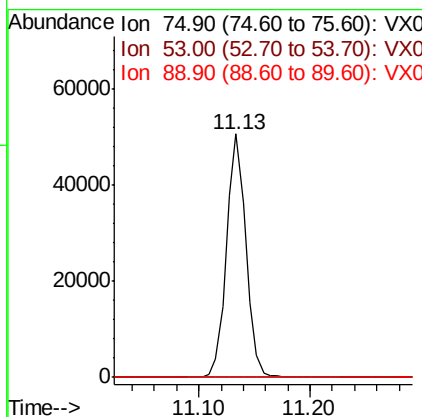
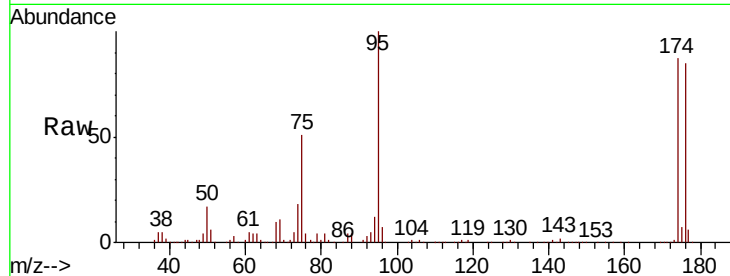




#81
trans-1,4-Dichloro-2-butene
Concen: 71.187 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

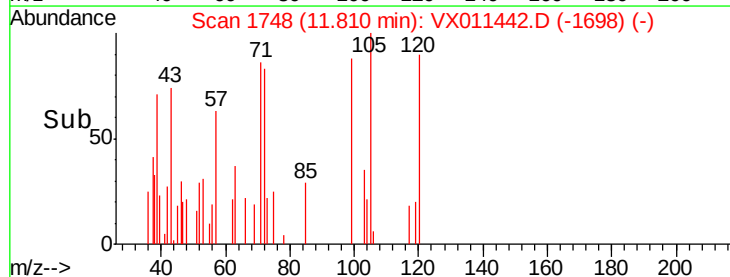
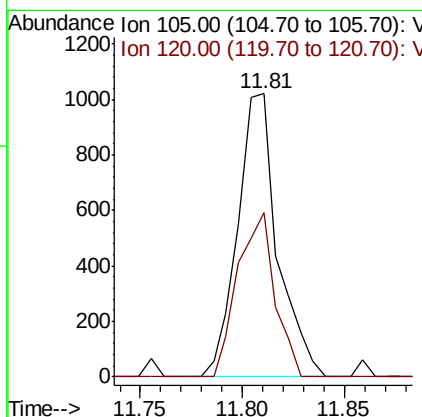
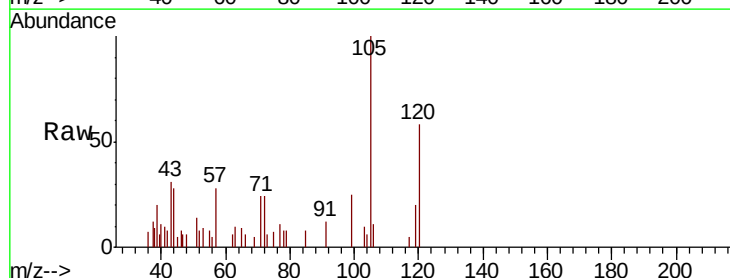
Instrument :
MSVOA_X
ClientSampleId :
TP-18

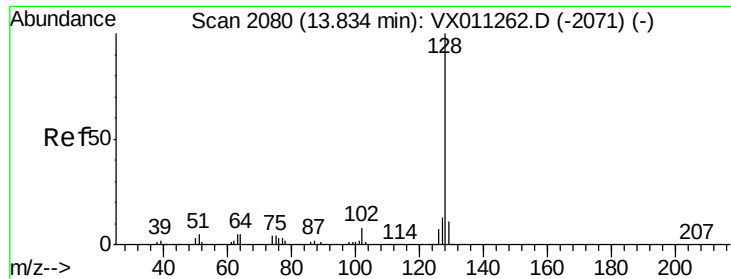
Tgt Ion: 75 Resp: 61022
Ion Ratio Lower Upper
75 100
53 0.0 78.2 117.4#
89 0.0 37.9 56.9#



#84
1,2,4-Trimethylbenzene
Concen: 0.200 ug/l
RT: 11.81 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

Tgt Ion: 105 Resp: 1395
Ion Ratio Lower Upper
105 100
120 53.7 23.0 69.0





#95
Naphthalene
Concen: 0.406 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX011442.D
Acq: 11 Aug 2019 19:22

Instrument :
MSVOA_X
ClientSampleId :
TP-18

Tgt Ion	Ratio	Lower	Upper
128	100		
127	16.1	10.4	15.6#
129	12.8	8.9	13.3

