

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011432.D
 Acq On : 11 Aug 2019 15:29
 Operator : JC/SP
 Sample : K4228-30
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F3-(1)

Quant Time: Aug 12 07:49:10 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

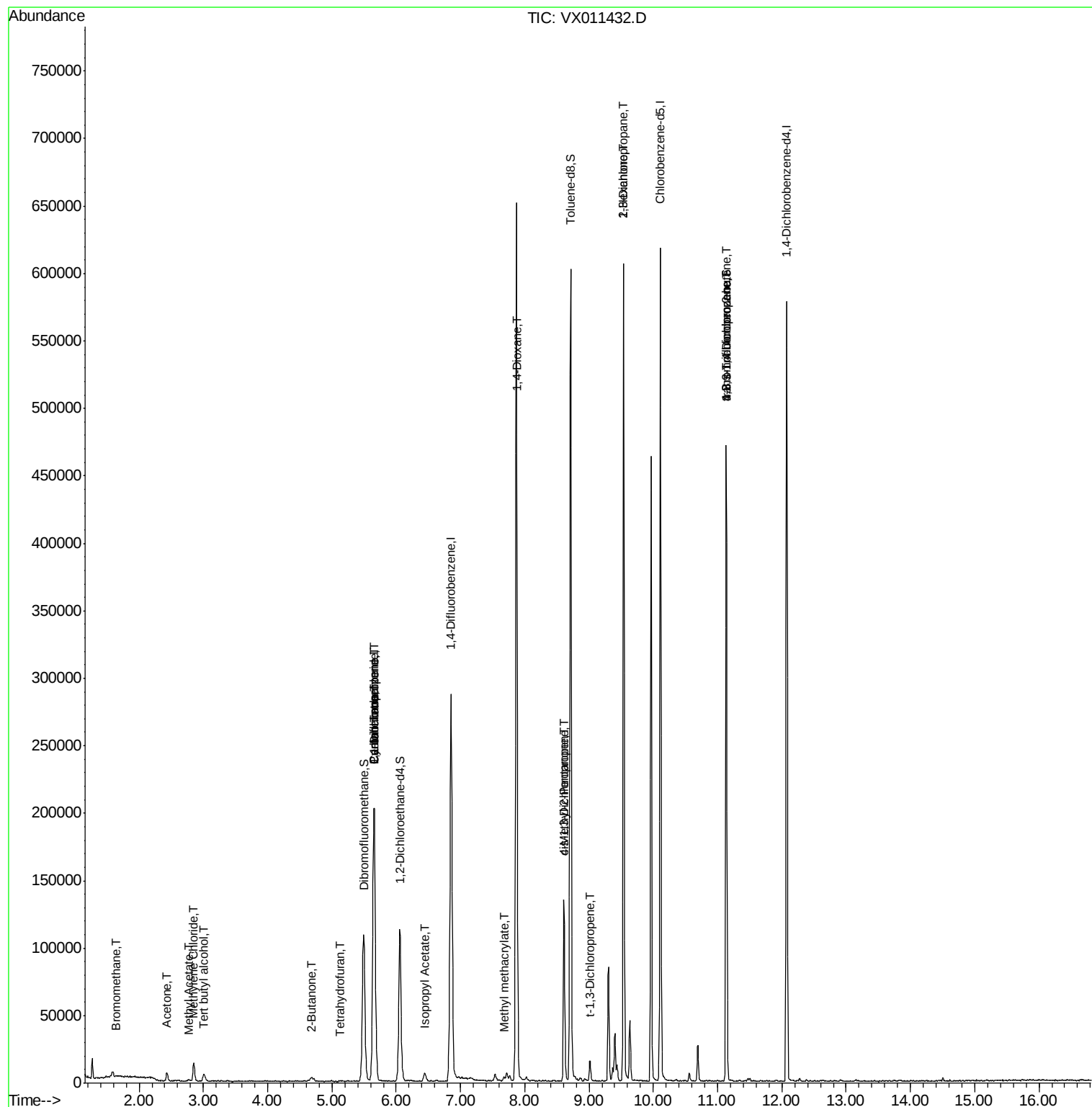
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	202405	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	296758	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	272138	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	124203	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	106204	52.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.20%	
35) Dibromofluoromethane	5.49	113	91219	47.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.16%	
50) Toluene-d8	8.71	98	356500	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.13	95	116864	44.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.52%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.65	94	485	0.352	ug/l	99
6) Chloroethane	1.70	64	105	Below Cal	#	65
11) Tert butyl alcohol	3.01	59	2967	7.322	ug/l #	79
16) Acetone	2.43	43	7119	7.338	ug/l	97
18) Methyl Acetate	2.77	43	1366	0.616	ug/l	93
20) Methylene Chloride	2.85	84	6305	2.967	ug/l	97
25) 2-Butanone	4.68	43	980	0.710	ug/l #	77
29) Tetrahydrofuran	5.13	42	354	0.418	ug/l #	57
31) Cyclohexane	5.66	56	3768	1.435	ug/l #	25
36) 1,1-Dichloropropene	5.66	75	13657	5.271	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18964	7.275	ug/l #	15
43) Isopropyl Acetate	6.45	43	8634	2.078	ug/l	99
48) Methyl methacrylate	7.68	41	4543	2.323	ug/l #	10
49) 1,4-Dioxane	7.88	88	244	4.304	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	43105	16.075	ug/l #	47
53) t-1,3-Dichloropropene	9.02	75	83	2.866	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	22240	7.693	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	5264	1.584	ug/l #	43
59) 2-Hexanone	9.54	43	68353	32.909	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	60274	26.648	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	60274	69.241	ug/l #	10

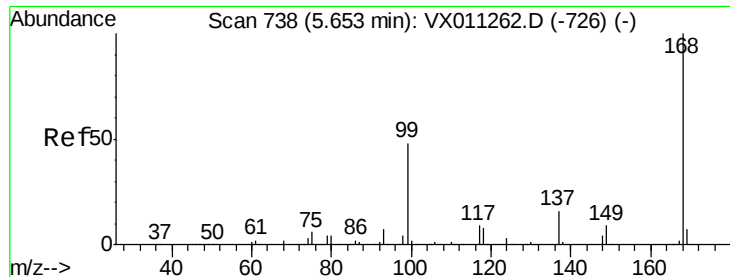
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 02 01:55:00 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011432.D

Acq: 11 Aug 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

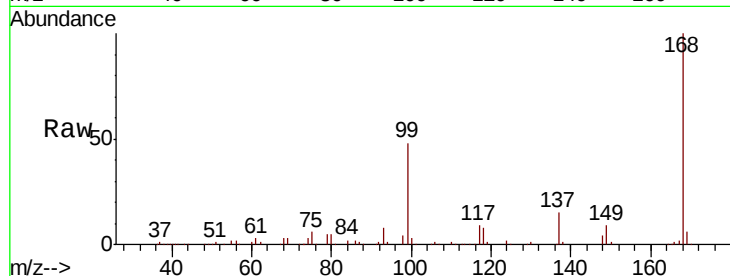
2S-F3-(1)

Tgt Ion:168 Resp: 202405

Ion Ratio Lower Upper

168 100

99 48.4 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

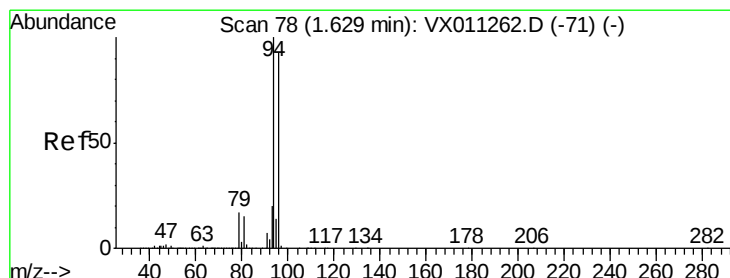
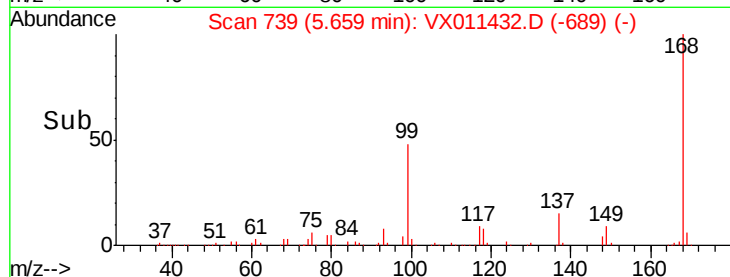
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.352 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011432.D

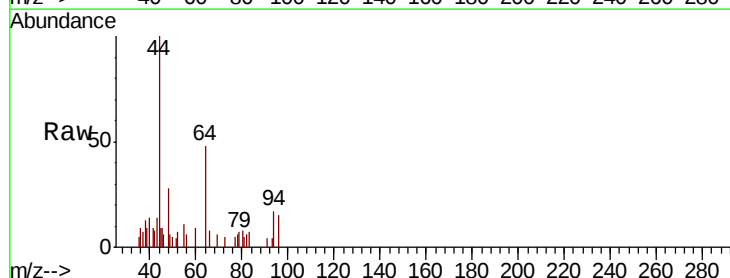
Acq: 11 Aug 2019 15:29

Tgt Ion: 94 Resp: 485

Ion Ratio Lower Upper

94 100

96 92.5 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

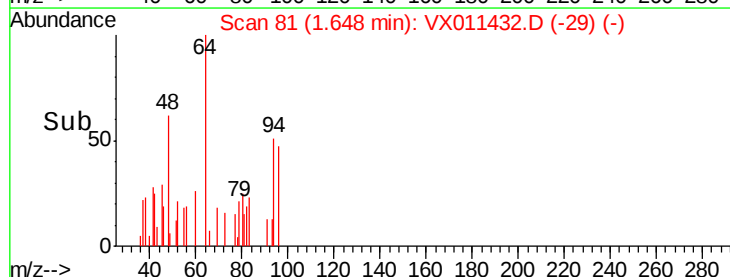
150

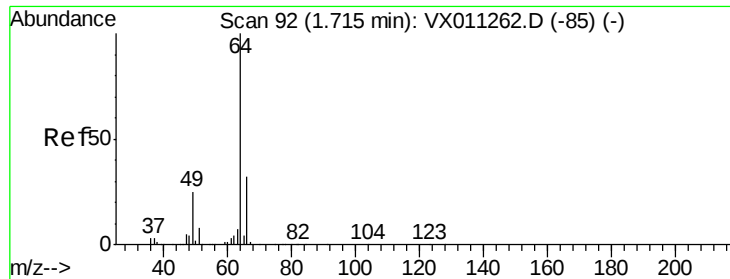
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011432.D

Acq: 11 Aug 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

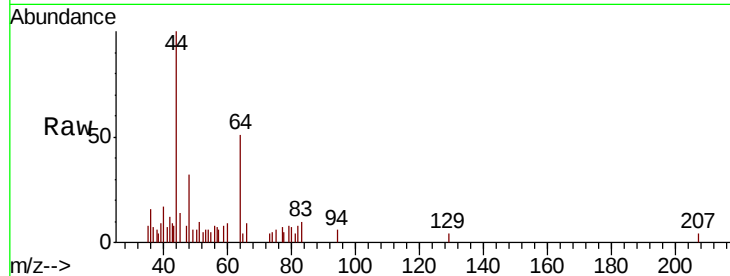
2S-F3-(1)

Tgt Ion: 64 Resp: 105

Ion Ratio Lower Upper

64 100

66 12.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

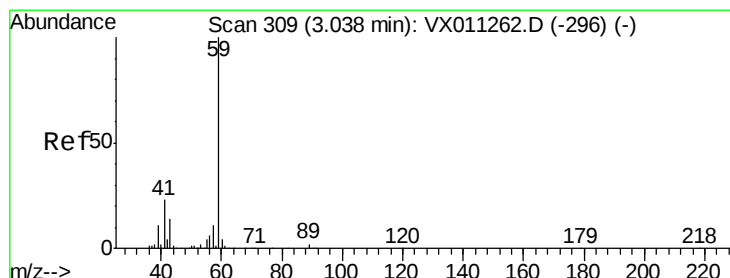
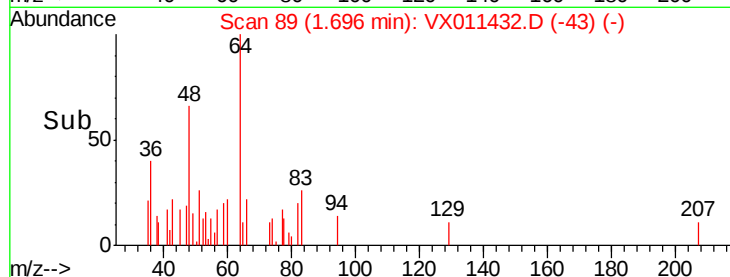
600

400

200

0

Time-->



#11

Tert butyl alcohol

Concen: 7.322 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011432.D

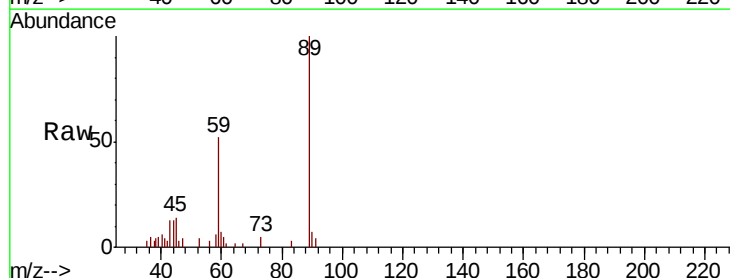
Acq: 11 Aug 2019 15:29

Tgt Ion: 59 Resp: 2967

Ion Ratio Lower Upper

59 100

57 2.7 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

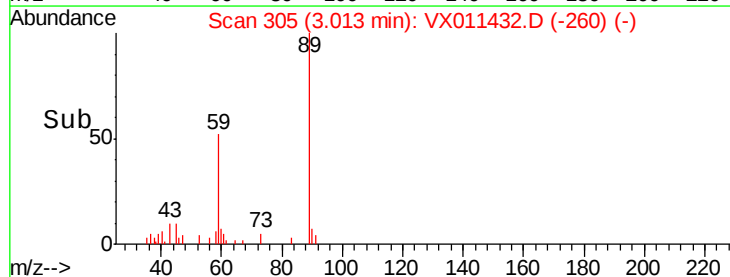
3.01

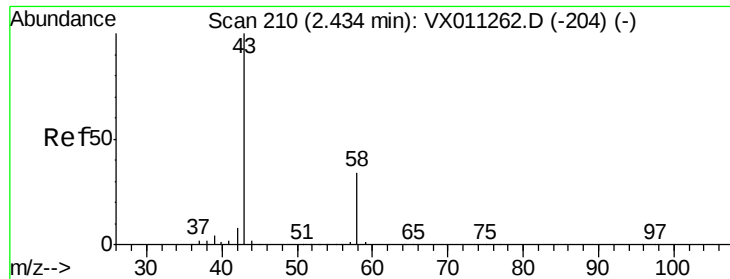
1000

500

0

Time-->





#16

Acetone

Concen: 7.338 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011432.D

Acq: 11 Aug 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

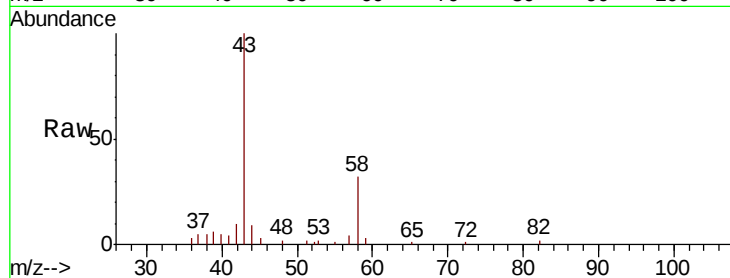
2S-F3-(1)

Tgt Ion: 43 Resp: 7119

Ion Ratio Lower Upper

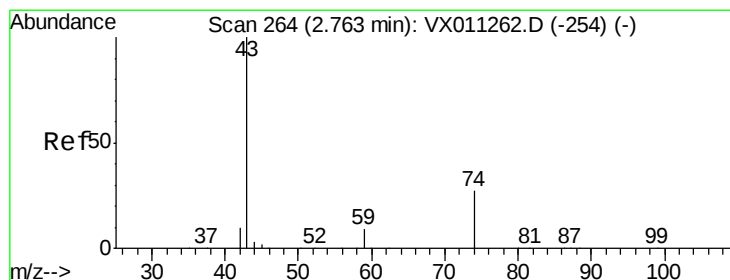
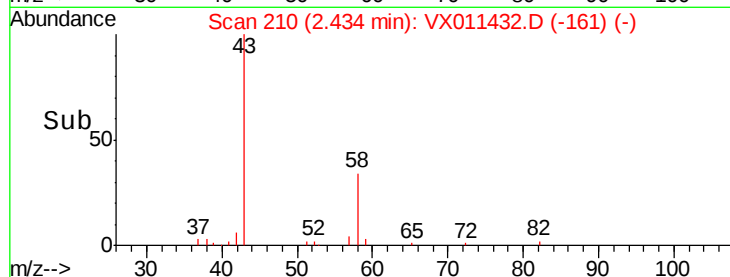
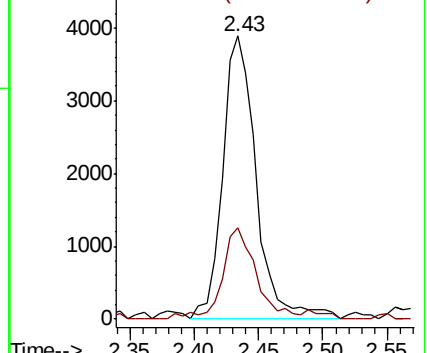
43 100

58 32.5 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.616 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011432.D

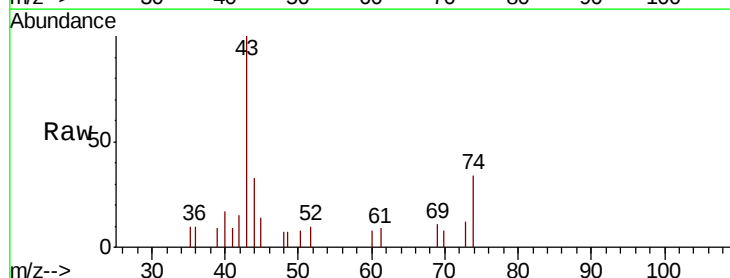
Acq: 11 Aug 2019 15:29

Tgt Ion: 43 Resp: 1366

Ion Ratio Lower Upper

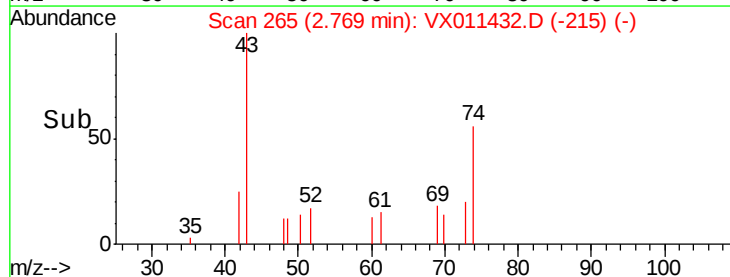
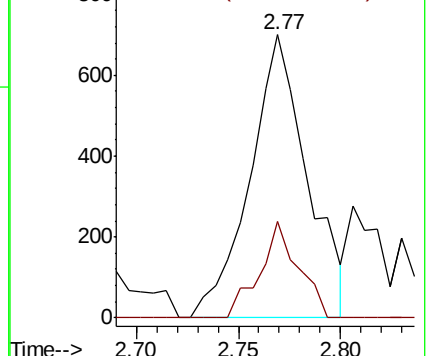
43 100

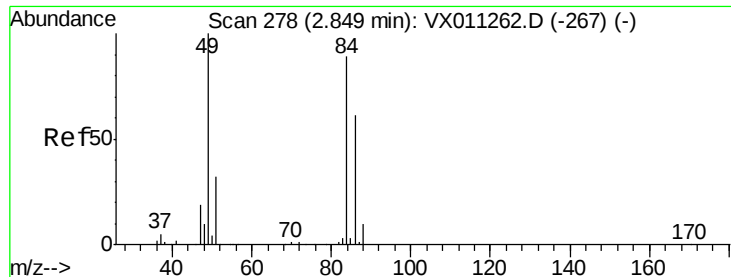
74 22.9 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

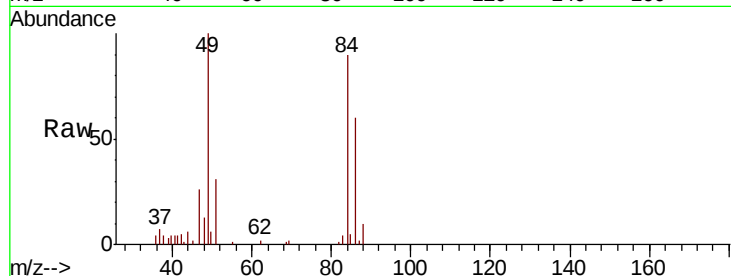




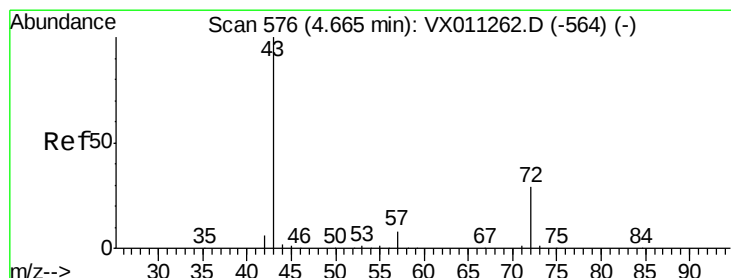
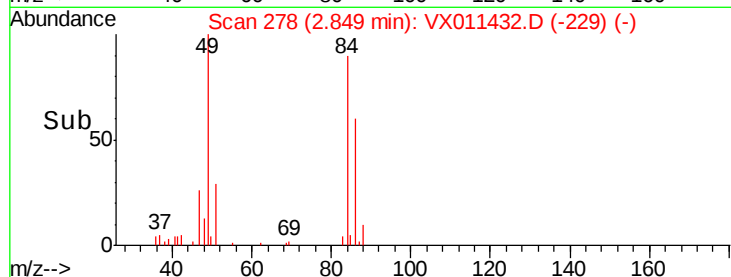
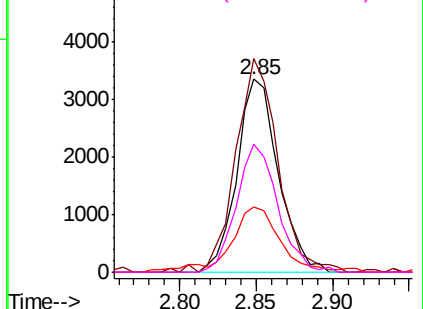
#20
Methylene Chloride
Concen: 2.967 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

Instrument :
MSVOA_X
ClientSampleId :
2S-F3-(1)

Tgt Ion:	84	Resp:	6305
Ion	Ratio	Lower	Upper
84	100		
49	108.3	89.3	133.9
51	32.3	28.3	42.5
86	66.1	54.5	81.7

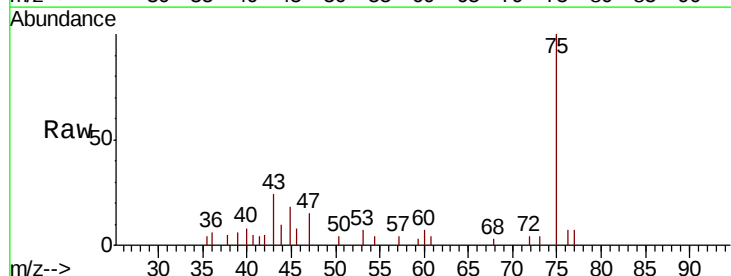


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

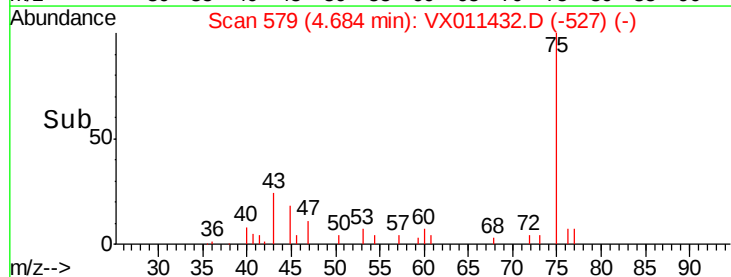
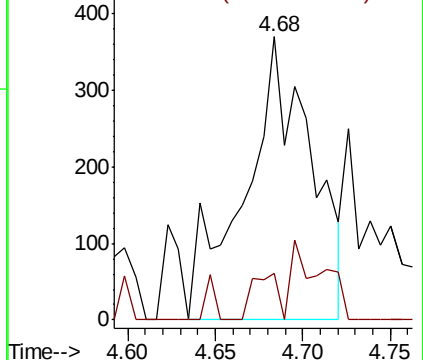


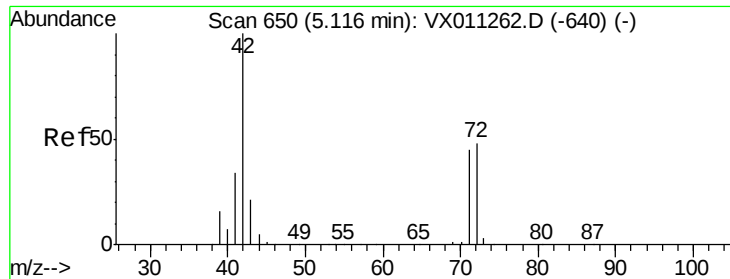
#25
2-Butanone
Concen: 0.710 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

Tgt Ion:	43	Resp:	980
Ion	Ratio	Lower	Upper
43	100		
72	16.5	23.2	34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

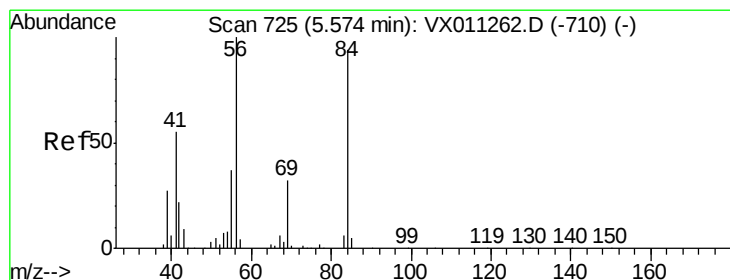
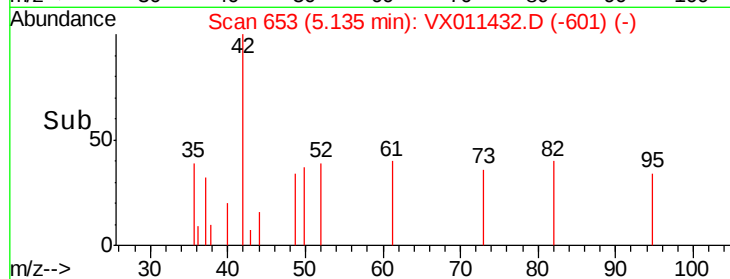
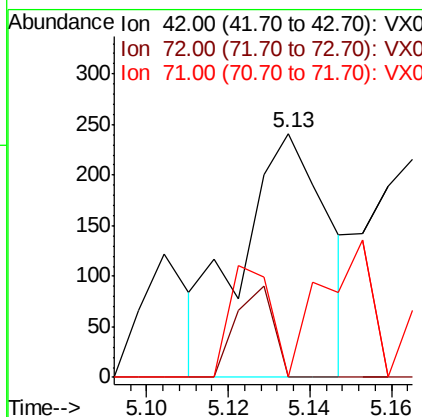
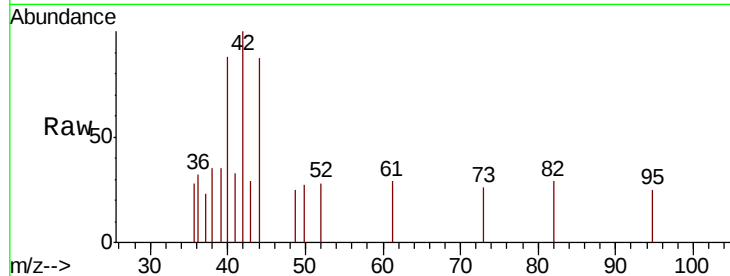




#29
Tetrahydrofuran
Concen: 0.418 ug/l
RT: 5.13 min Scan# 653
Delta R.T. 0.02 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

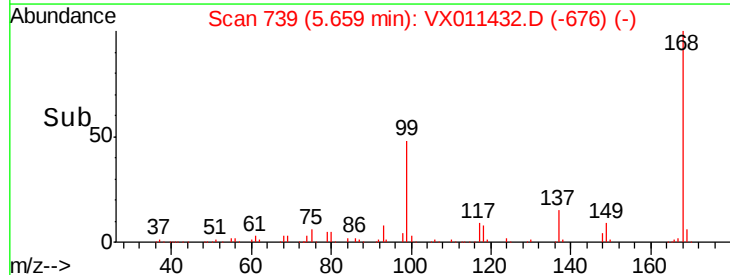
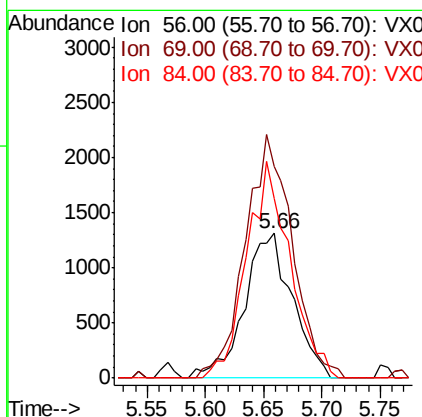
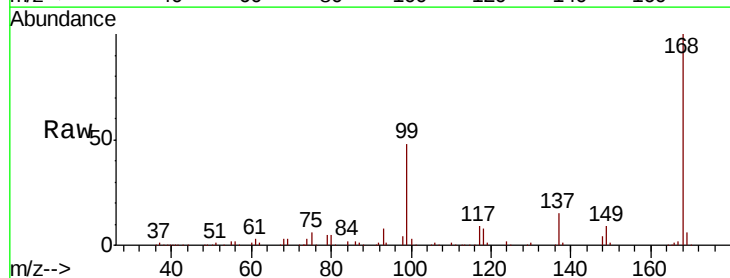
Instrument :
MSVOA_X
ClientSampled :
2S-F3-(1)

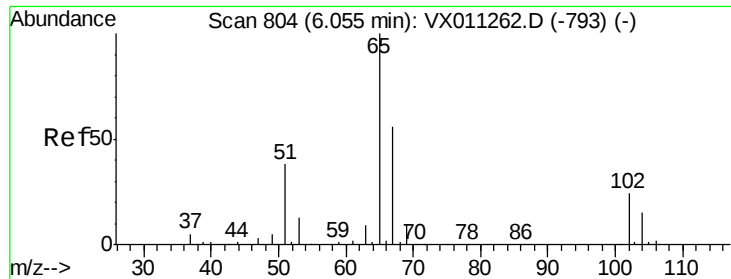
Tgt Ion: 42 Resp: 354
Ion Ratio Lower Upper
42 100
72 16.1 39.9 59.9#
71 21.8 36.9 55.3#



#31
Cyclohexane
Concen: 1.435 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

Tgt Ion: 56 Resp: 3768
Ion Ratio Lower Upper
56 100
69 145.7 25.5 38.3#
84 123.6 75.0 112.4#

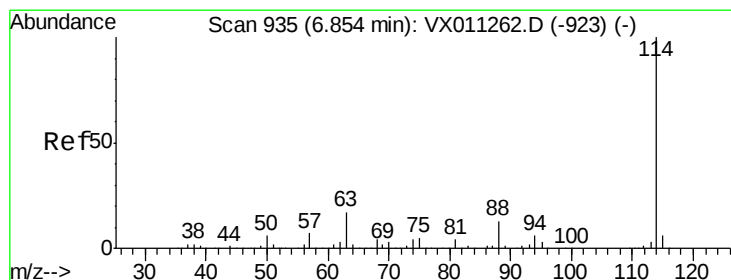
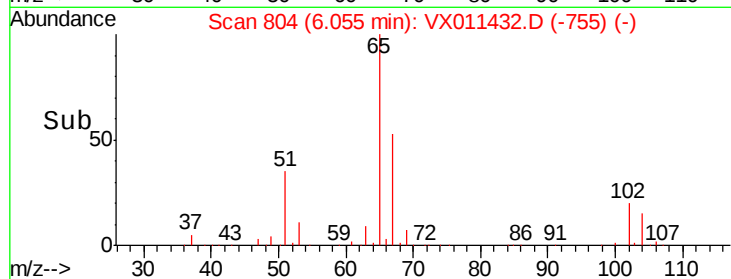
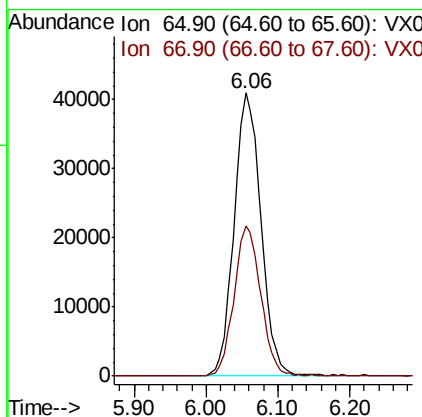
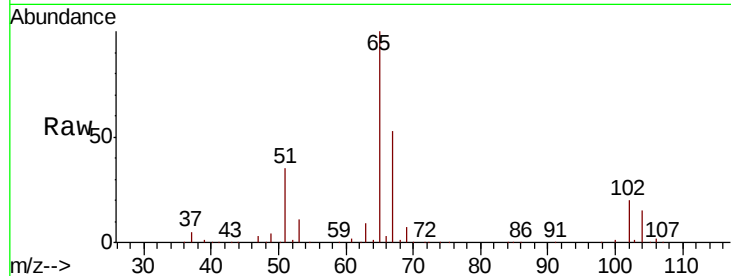




#33
 1,2-Dichloroethane-d4
 Concen: 52.104 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. -0.00 min
 Lab File: VX011432.D
 Acq: 11 Aug 2019 15:29

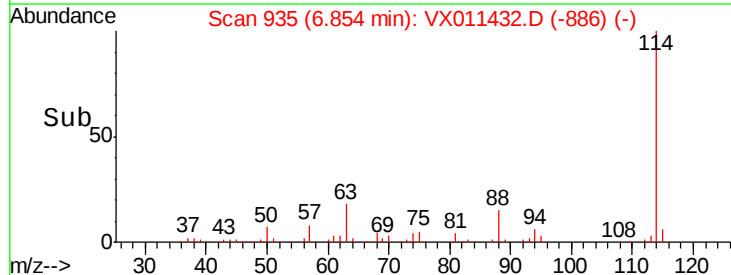
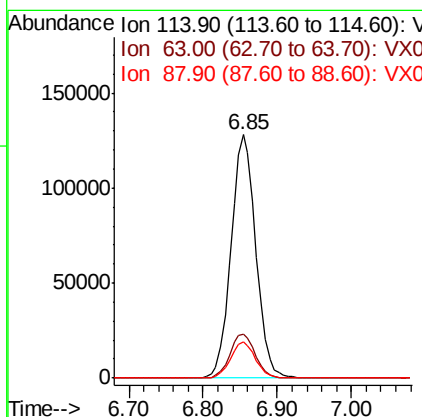
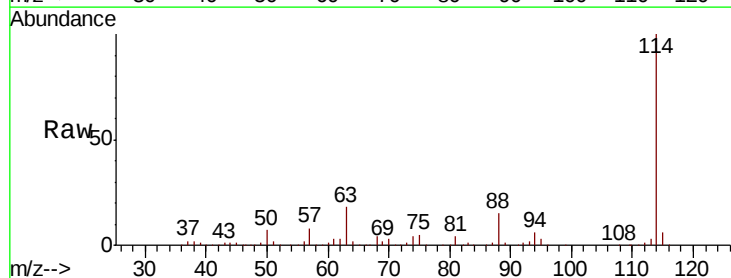
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 MSVOA_X
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 2S-F3-(1)

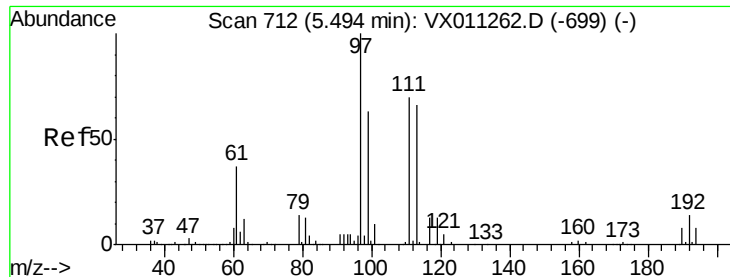
Tgt Ion: 65 Resp: 106204
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011432.D
 Acq: 11 Aug 2019 15:29

Tgt Ion: 114 Resp: 296758
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 34.0
 88 14.8 0.0 26.4

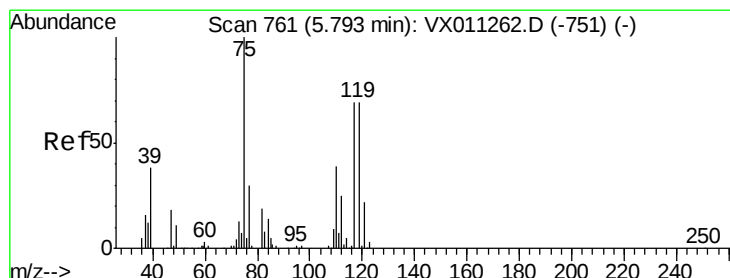
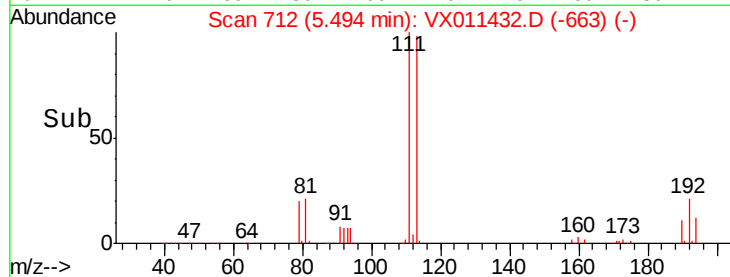
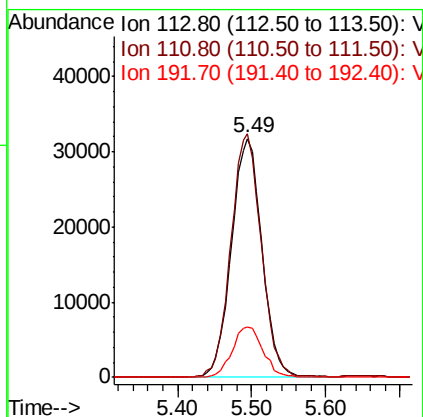
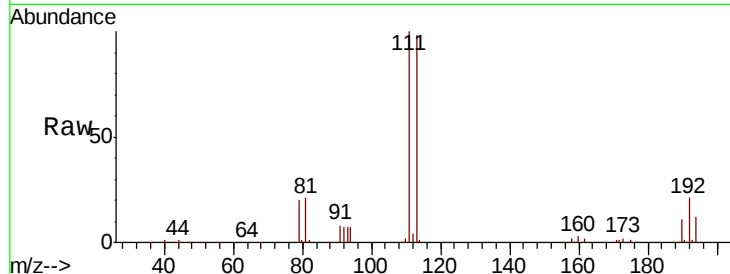




#35
 Dibromofluoromethane
 Concen: 47.082 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011432.D
 Acq: 11 Aug 2019 15:29

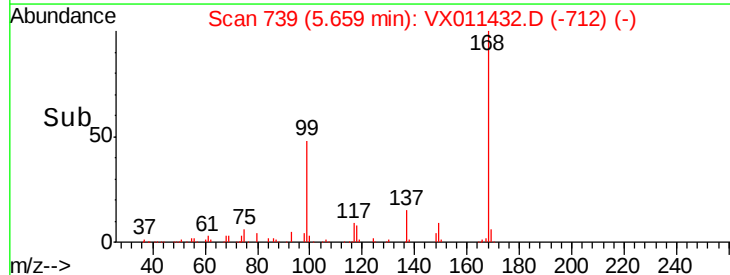
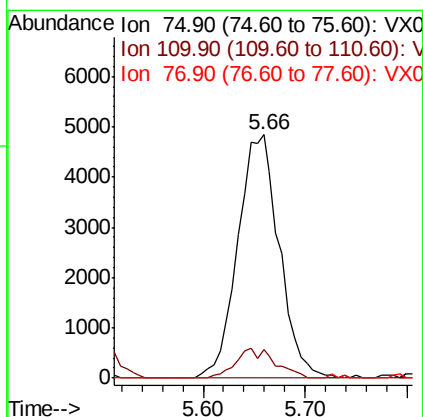
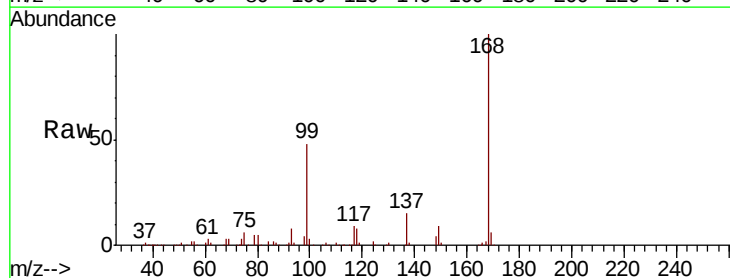
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F3-(1)

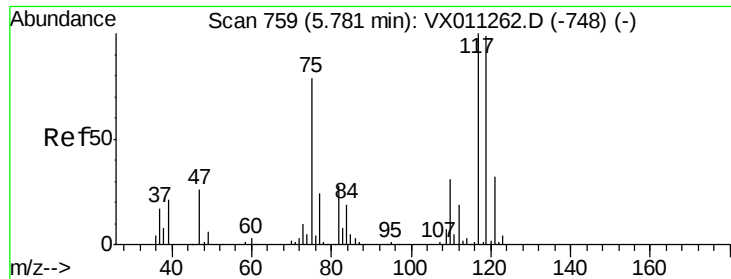
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.9	122.9
192	21.3	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 5.271 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011432.D
 Acq: 11 Aug 2019 15:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.5	20.0	59.9#
77	0.0	24.8	37.2#

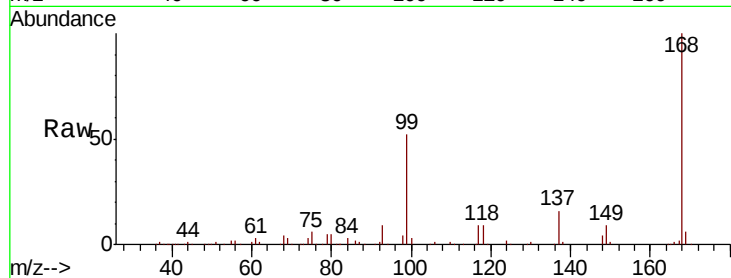




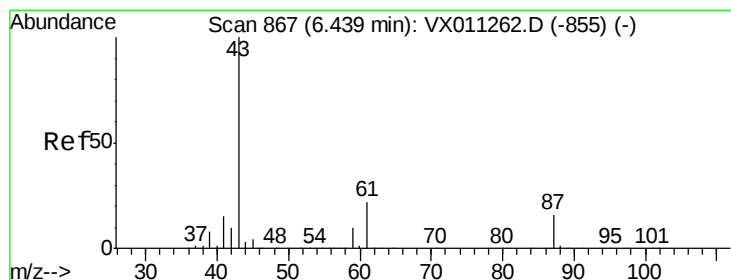
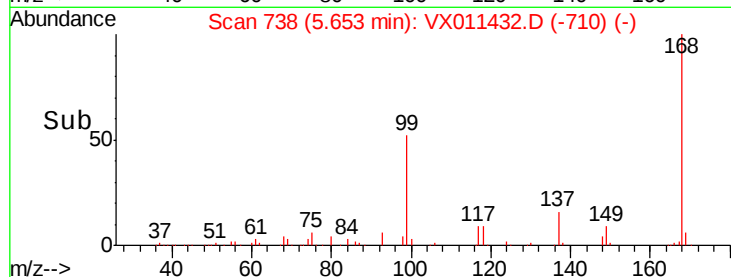
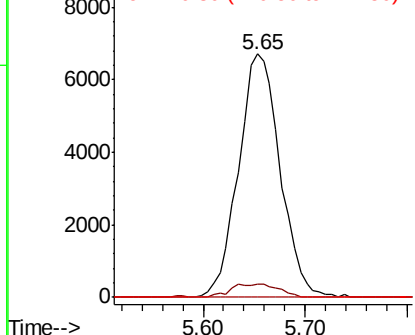
#38
Carbon Tetrachloride
Concen: 7.275 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.13 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

Instrument :
MSVOA_X
ClientSampled :
2S-F3-(1)

Tgt Ion: 117 Resp: 18964
Ion Ratio Lower Upper
117 100
119 5.3 79.0 118.4#
121 0.0 25.9 38.9#

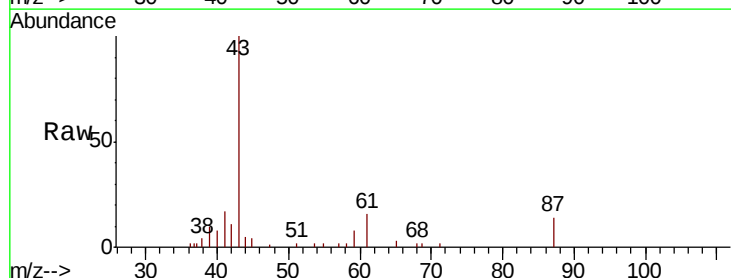


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

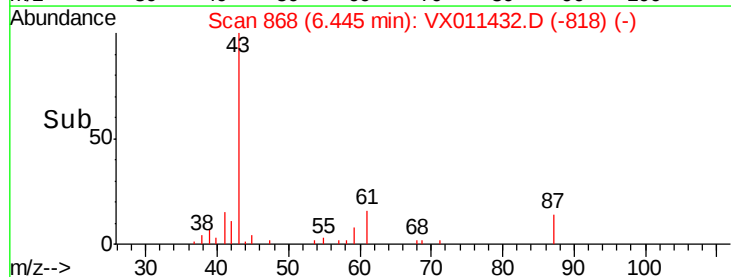
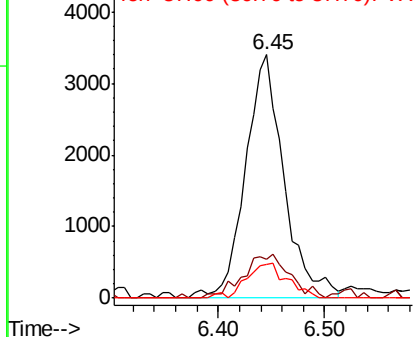


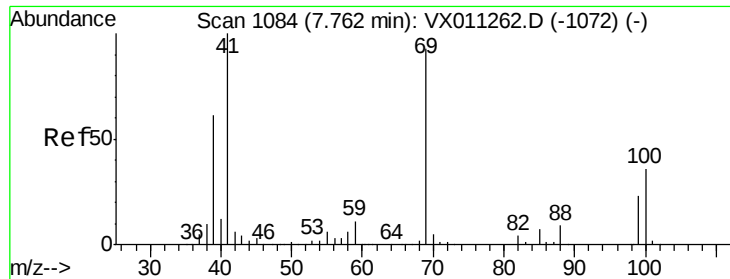
#43
Isopropyl Acetate
Concen: 2.078 ug/l
RT: 6.45 min Scan# 868
Delta R.T. 0.01 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

Tgt Ion: 43 Resp: 8634
Ion Ratio Lower Upper
43 100
61 21.6 16.5 24.7
87 15.2 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

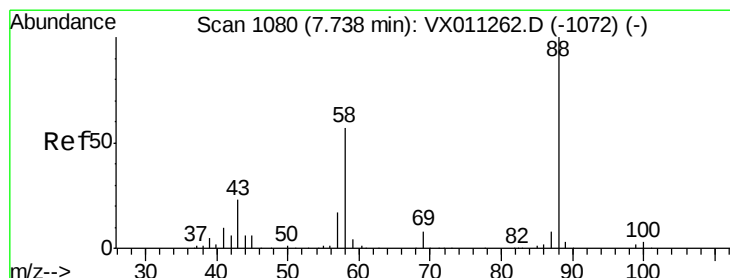
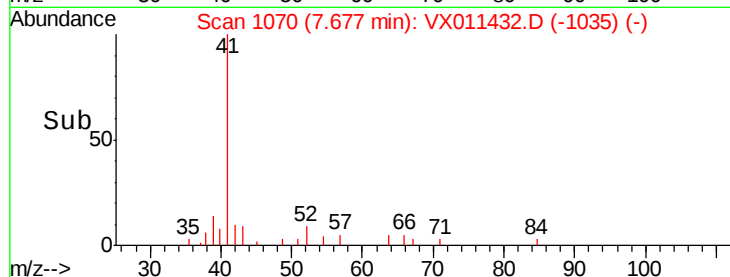
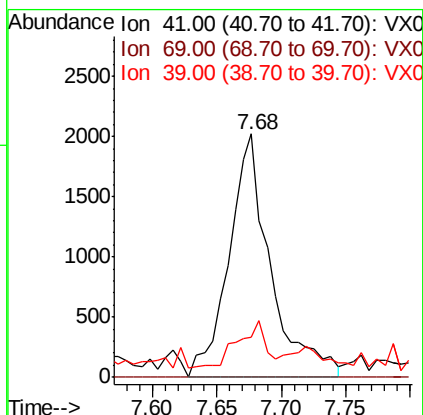
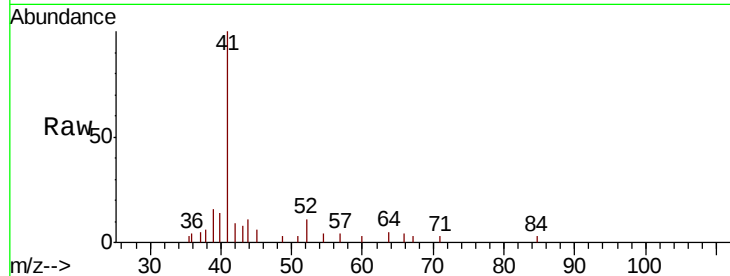




#48
Methyl methacrylate
Concen: 2.323 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

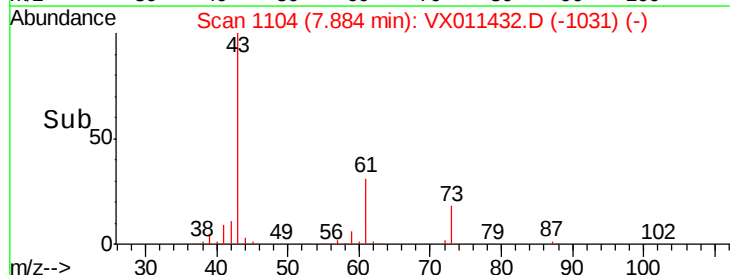
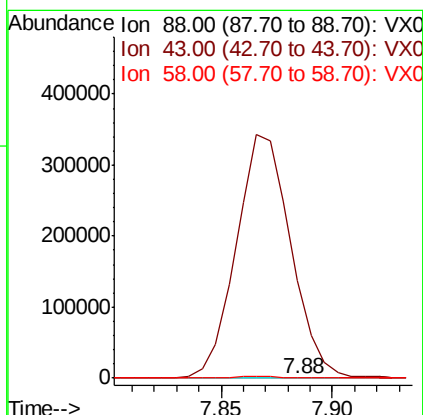
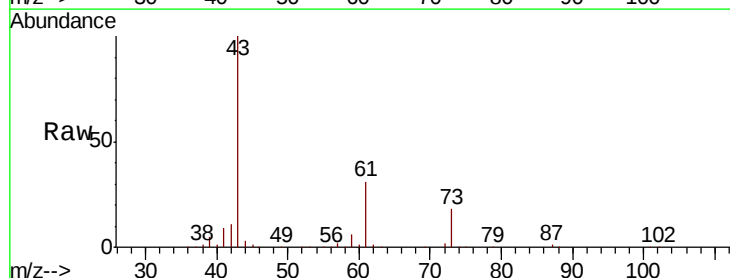
Instrument :
MSVOA_X
ClientSampleId :
2S-F3-(1)

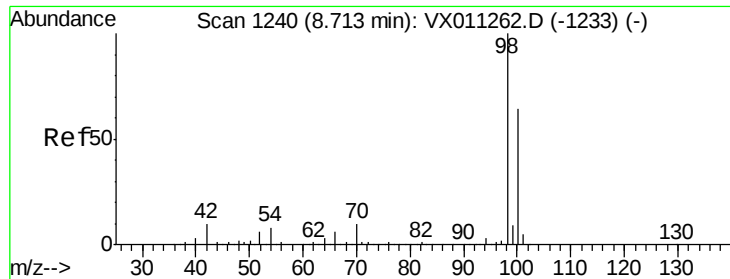
Tgt Ion: 41 Resp: 4543
Ion Ratio Lower Upper
41 100
69 0.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 4.304 ug/l
RT: 7.88 min Scan# 1104
Delta R.T. 0.15 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

Tgt Ion: 88 Resp: 244
Ion Ratio Lower Upper
88 100
43 241599.6 22.2 33.2#
58 1253.7 47.8 71.8#





#50

Toluene-d8

Concen: 48.746 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011432.D

Acq: 11 Aug 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

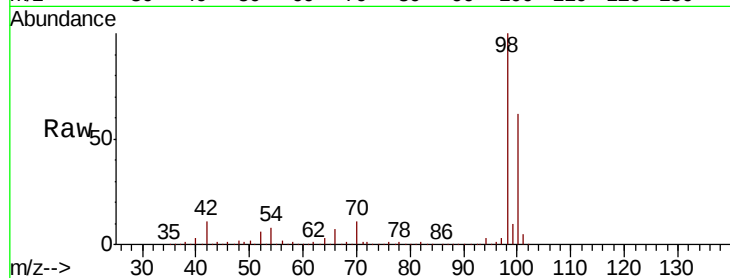
2S-F3-(1)

Tgt Ion: 98 Resp: 356500

Ion Ratio Lower Upper

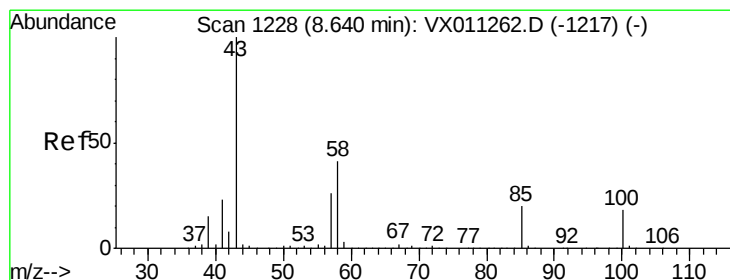
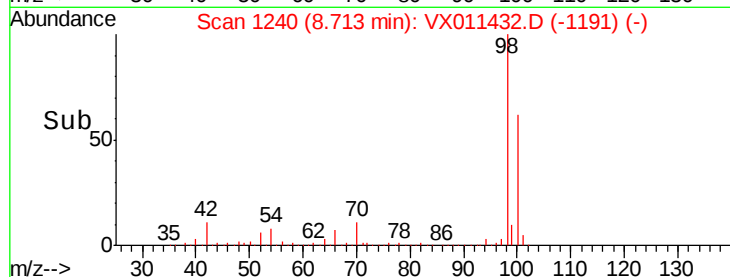
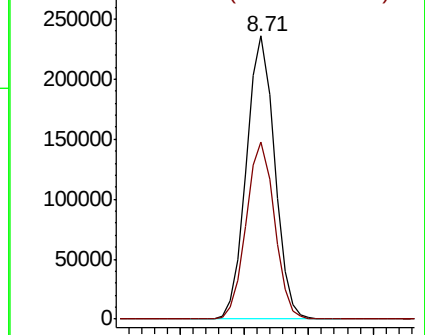
98 100

100 63.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 16.075 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011432.D

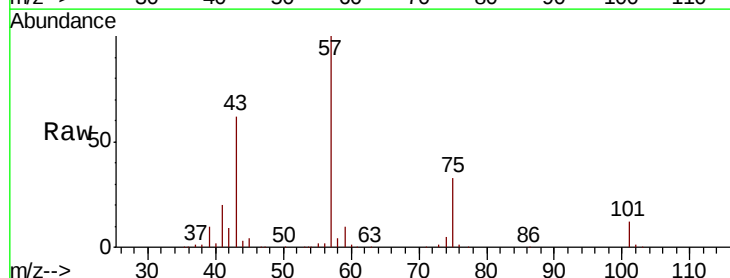
Acq: 11 Aug 2019 15:29

Tgt Ion: 43 Resp: 43105

Ion Ratio Lower Upper

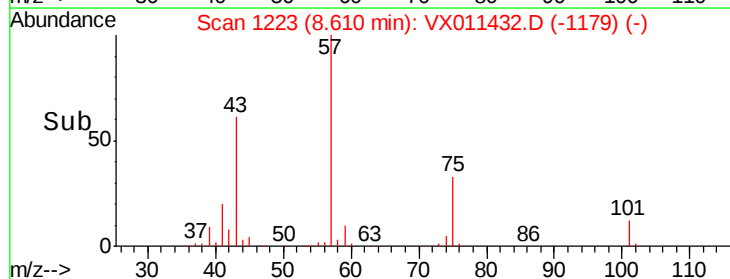
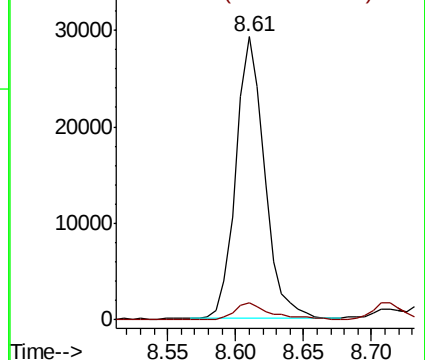
43 100

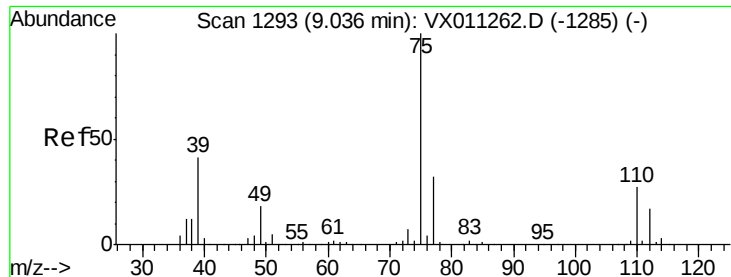
58 7.8 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

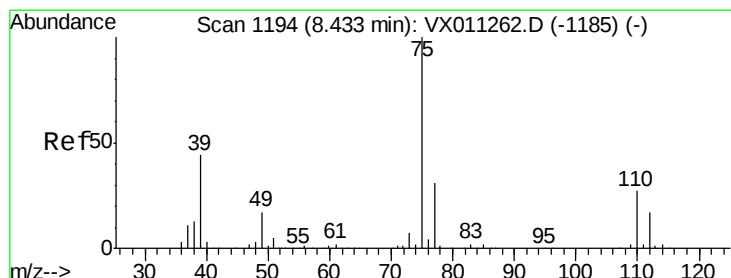
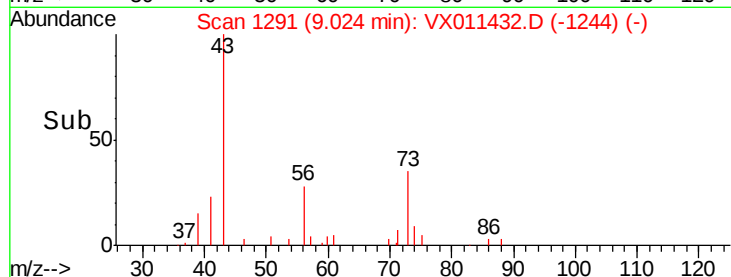
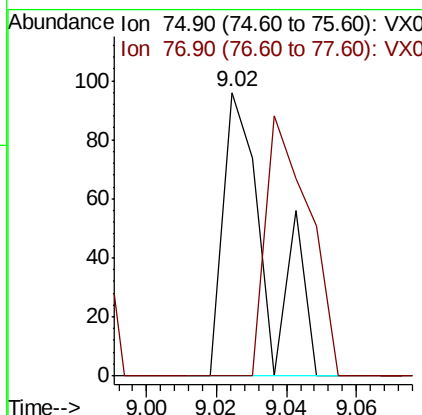
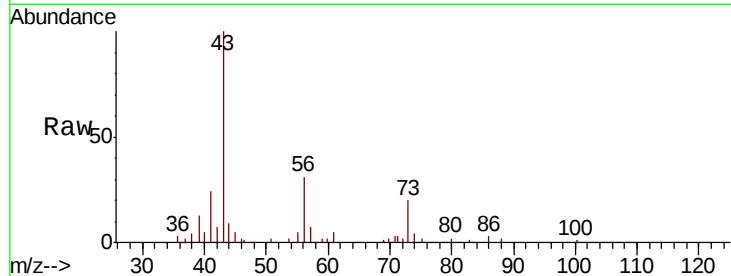




#53
 t-1,3-Dichloropropene
 Concen: 2.866 ug/l
 RT: 9.02 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: VX011432.D
 Acq: 11 Aug 2019 15:29

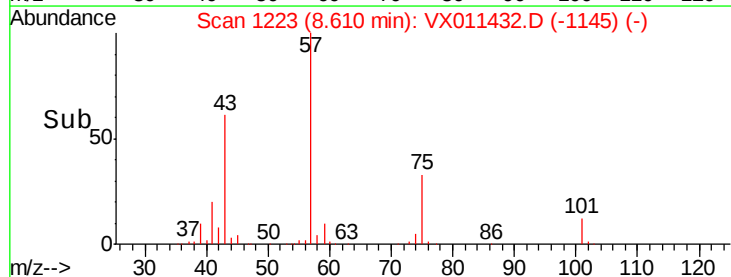
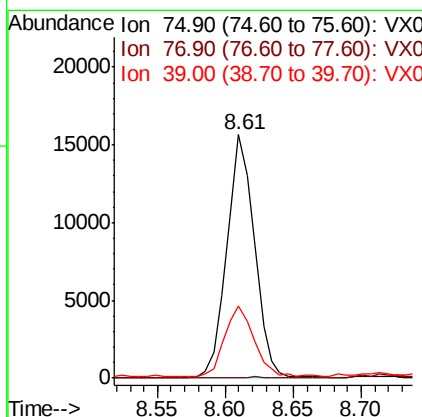
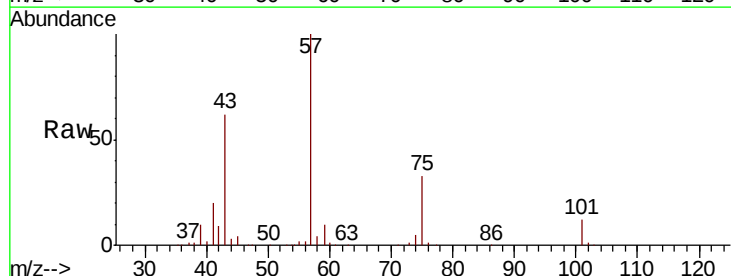
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F3-(1)

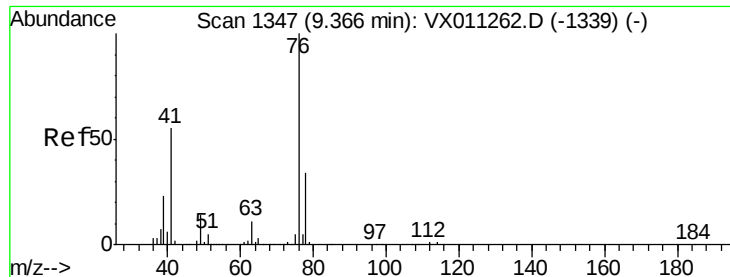
Tgt Ion: 75 Resp: 83
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 7.693 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011432.D
 Acq: 11 Aug 2019 15:29

Tgt Ion: 75 Resp: 22240
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.0 37.6#
 39 29.0 35.3 52.9#





#57

1,3-Dichloropropane

Concen: 1.584 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011432.D

Acq: 11 Aug 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

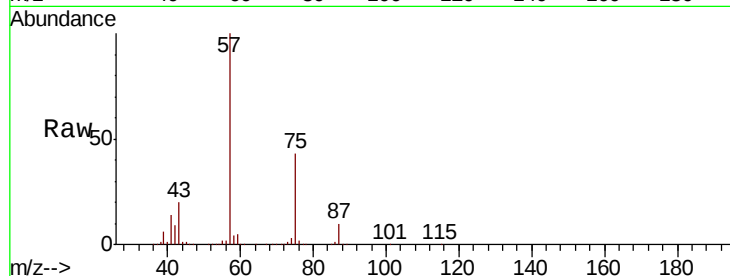
2S-F3-(1)

Tgt Ion: 76 Resp: 5264

Ion Ratio Lower Upper

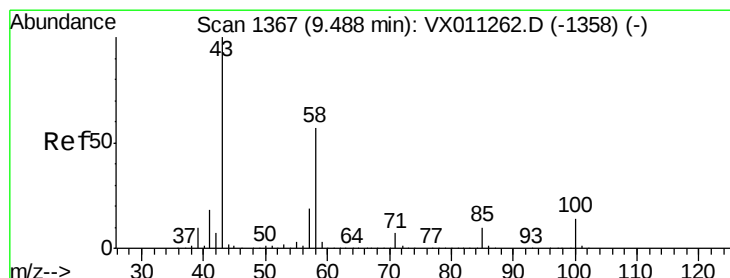
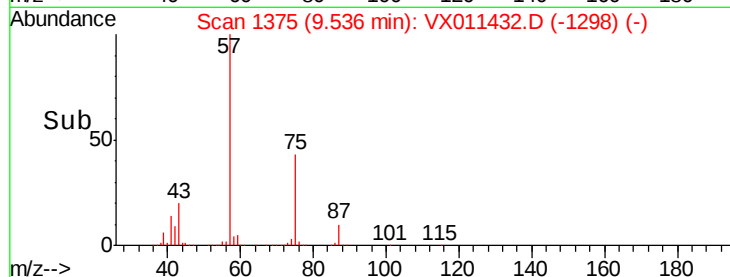
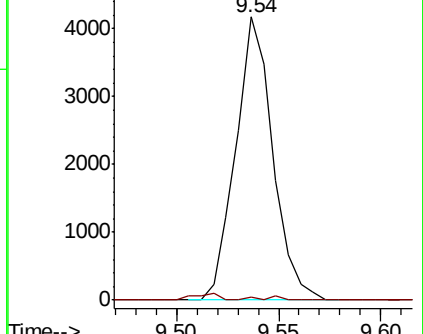
76 100

78 0.7 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 32.909 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011432.D

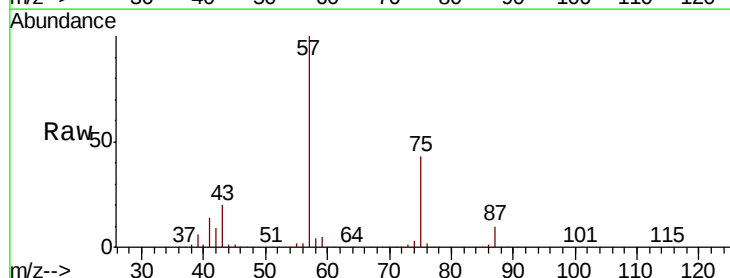
Acq: 11 Aug 2019 15:29

Tgt Ion: 43 Resp: 68353

Ion Ratio Lower Upper

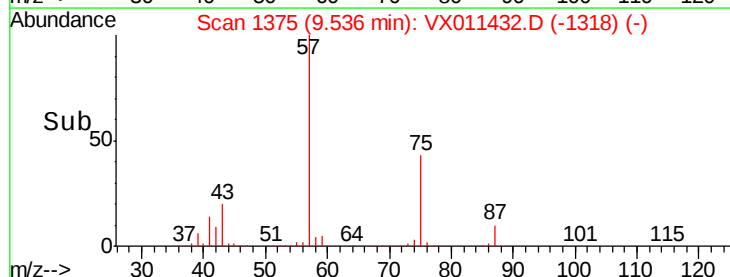
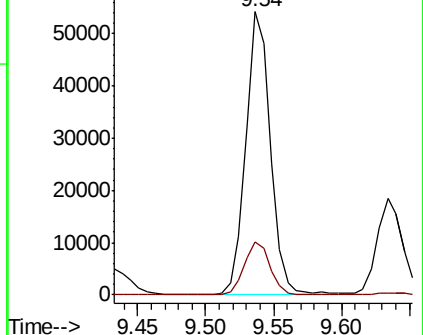
43 100

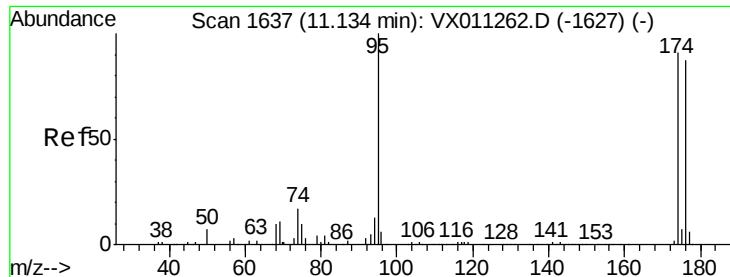
58 20.1 28.2 84.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

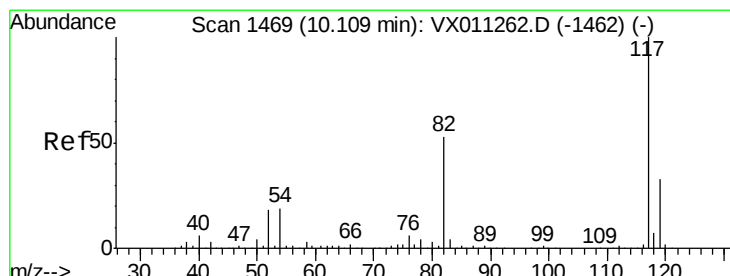
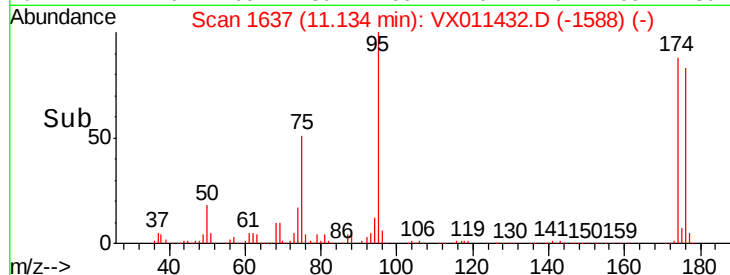
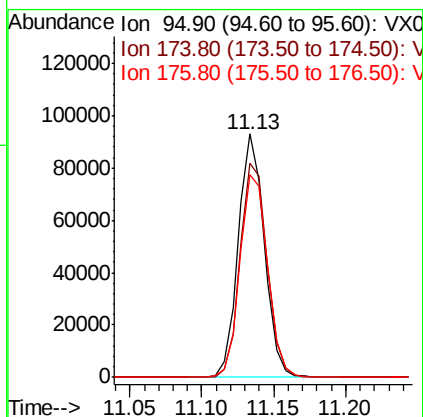
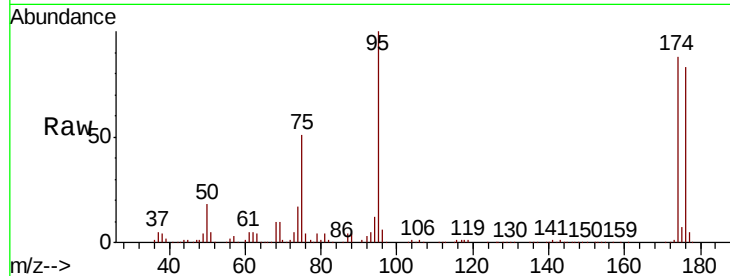




#62
4-Bromofluorobenzene
Concen: 44.757 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

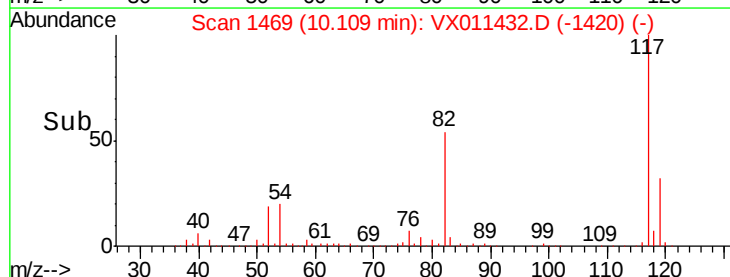
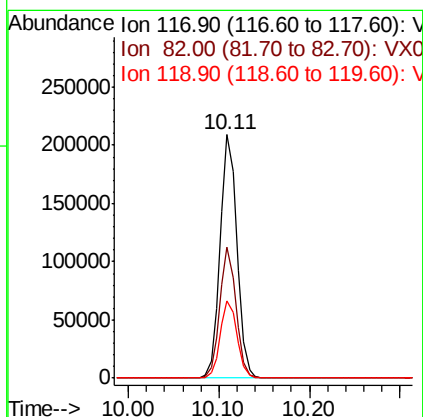
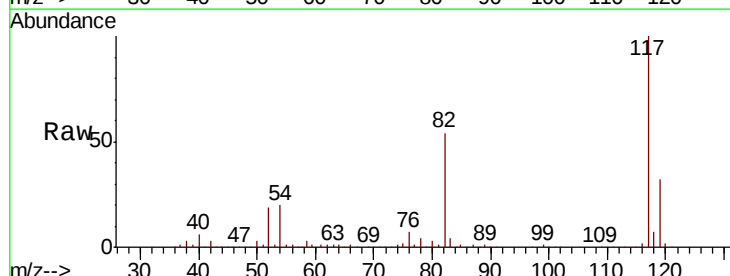
Instrument :
MSVOA_X
ClientSampleId :
2S-F3-(1)

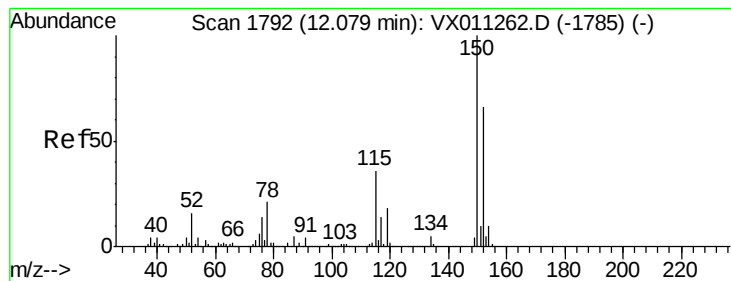
Tgt Ion: 95 Resp: 116864
Ion Ratio Lower Upper
95 100
174 91.1 0.0 191.2
176 87.7 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011432.D
Acq: 11 Aug 2019 15:29

Tgt Ion: 117 Resp: 272138
Ion Ratio Lower Upper
117 100
82 53.5 42.2 63.2
119 31.7 26.6 39.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011432.D

Acq: 11 Aug 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

2S-F3-(1)

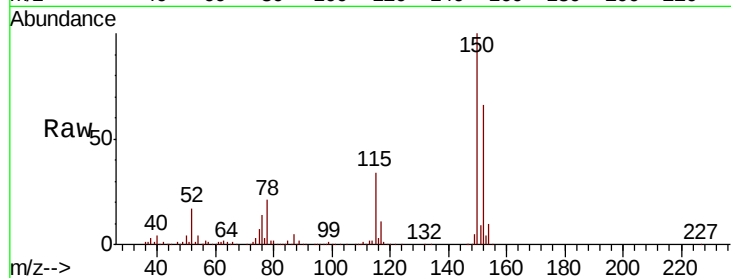
Tgt Ion: 152 Resp: 124203

Ion Ratio Lower Upper

152 100

115 54.9 40.0 119.9

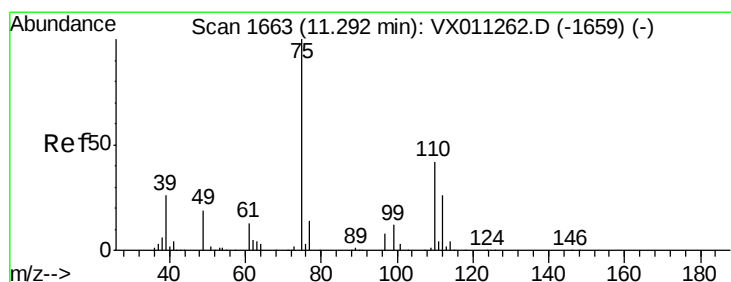
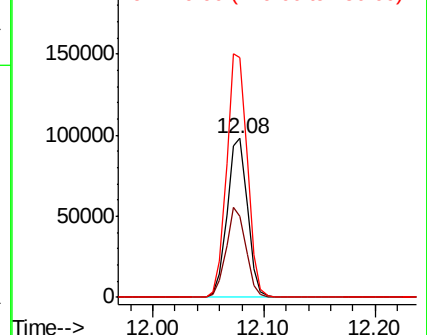
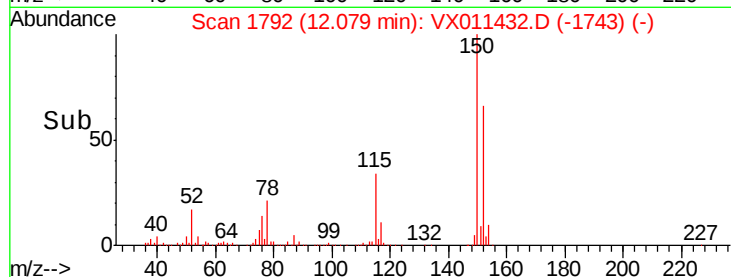
150 155.3 0.0 350.4



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: 26.648 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011432.D

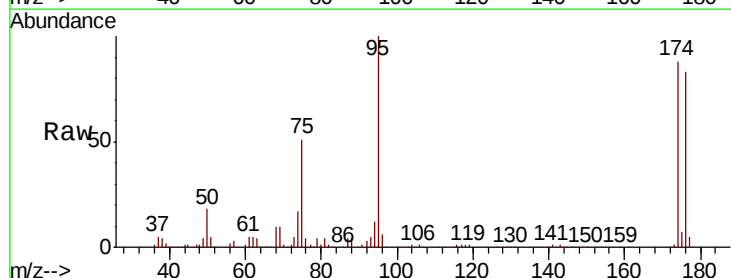
Acq: 11 Aug 2019 15:29

Tgt Ion: 75 Resp: 60274

Ion Ratio Lower Upper

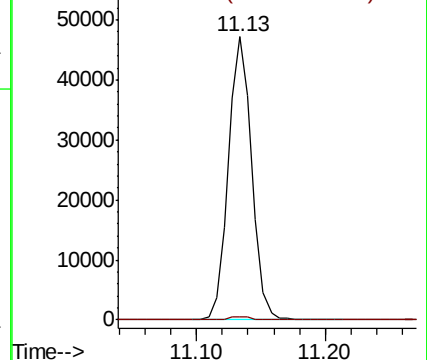
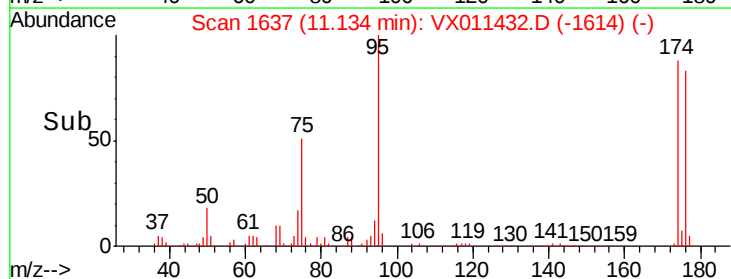
75 100

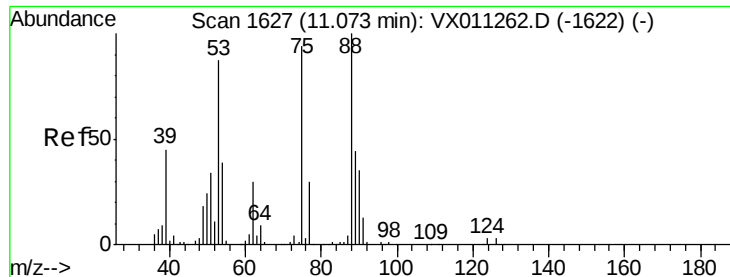
77 1.2 21.1 63.4#



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: 69.241 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011432.D

Acq: 11 Aug 2019 15:29

Instrument :

MSVOA_X

ClientSampleId :

2S-F3-(1)

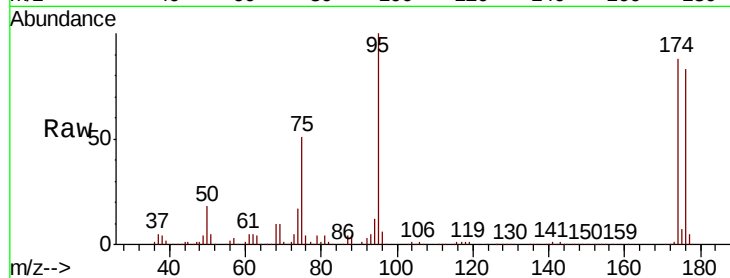
Tgt Ion: 75 Resp: 60274

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#



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

