

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011431.D
 Acq On : 11 Aug 2019 15:05
 Operator : JC/SP
 Sample : K4228-29
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F2-(1)

Quant Time: Aug 12 07:48:53 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	205333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	302843	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	279698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	124537	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	109804	53.10	ug/l	0.00
Spiked Amount			Recovery	=	106.20%	
35) Dibromofluoromethane	5.49	113	92136	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
50) Toluene-d8	8.71	98	363333	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
62) 4-Bromofluorobenzene	11.13	95	120660	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	

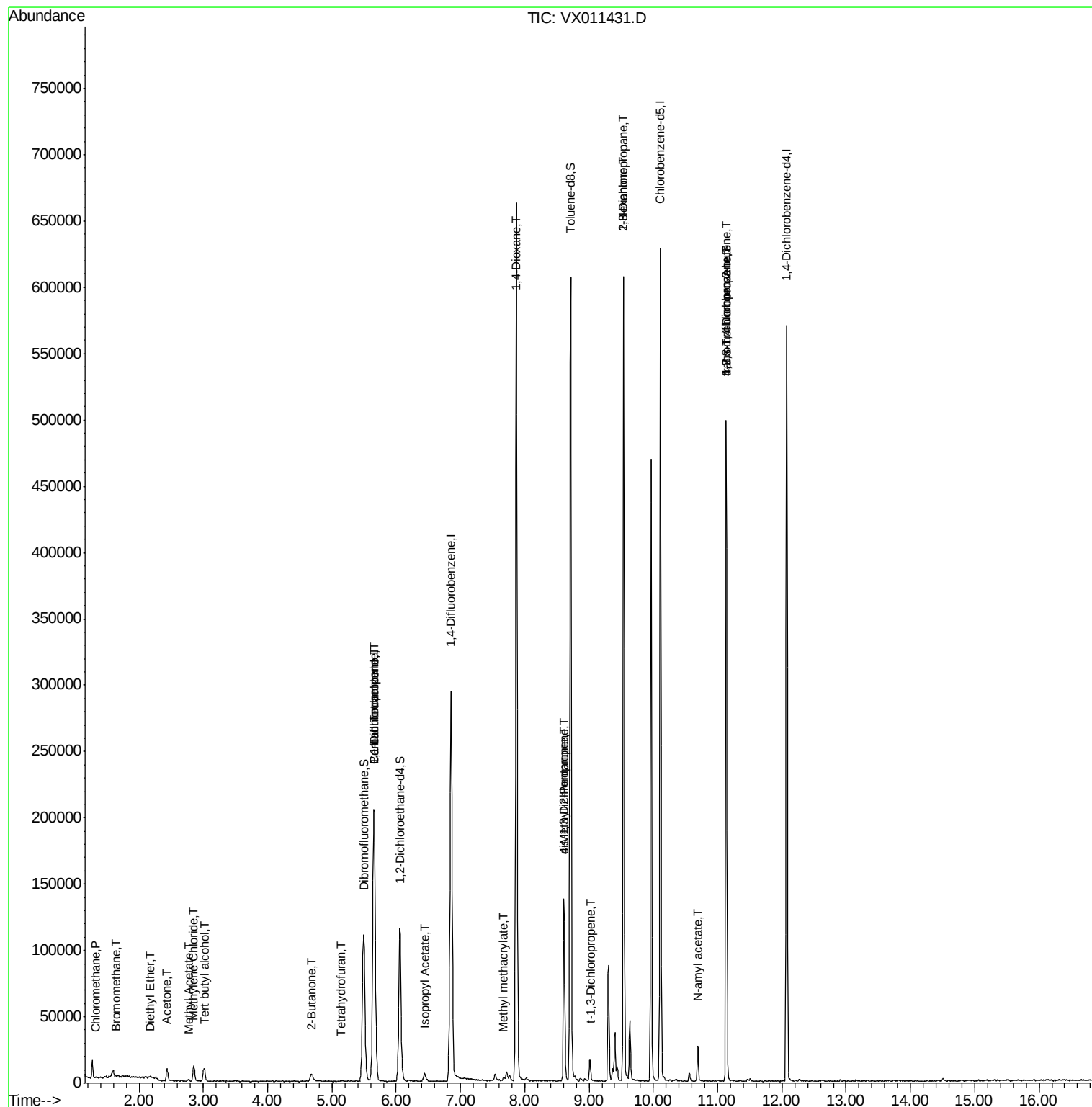
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	362	0.203	ug/l #	34
5) Bromomethane	1.65	94	474	0.339	ug/l	94
6) Chloroethane	1.74	64	342	Below Cal	#	61
8) Diethyl Ether	2.18	74	348	0.280	ug/l	61
11) Tert butyl alcohol	3.01	59	5621	13.654	ug/l #	75
16) Acetone	2.43	43	9231	9.379	ug/l	95
18) Methyl Acetate	2.78	43	1547	0.688	ug/l	98
20) Methylene Chloride	2.85	84	5566	2.582	ug/l	87
25) 2-Butanone	4.68	43	1090	0.779	ug/l	97
29) Tetrahydrofuran	5.13	42	285	0.332	ug/l #	52
36) 1,1-Dichloropropene	5.65	75	13896	5.255	ug/l #	49
38) Carbon Tetrachloride	5.65	117	19523	7.339	ug/l #	15
43) Isopropyl Acetate	6.44	43	8148	1.922	ug/l	95
48) Methyl methacrylate	7.68	41	3852	1.930	ug/l #	10
49) 1,4-Dioxane	7.87	88	115	1.988	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	45066	16.468	ug/l #	48
53) t-1,3-Dichloropropene	9.03	75	64	2.859	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	22308	7.561	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	5480	1.615	ug/l #	43
59) 2-Hexanone	9.54	43	69255	32.673	ug/l #	51
74) N-amyl acetate	10.69	43	6289	2.043	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	61180	26.976	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	61180	70.037	ug/l #	10

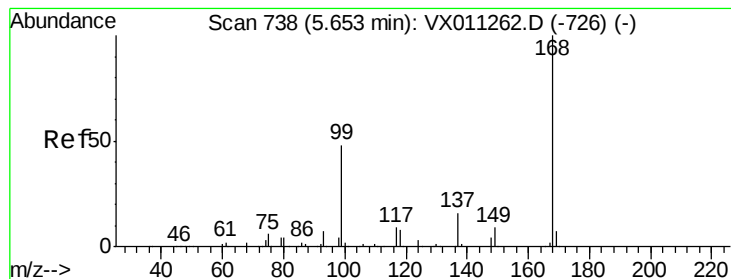
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
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: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

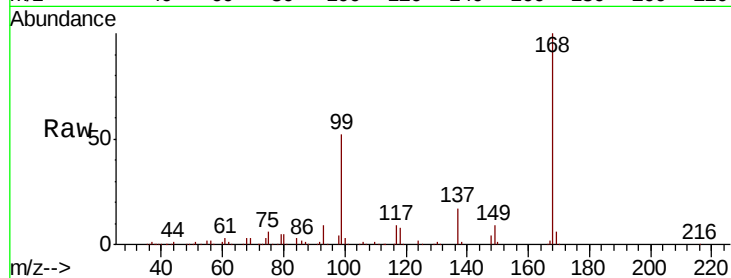
2S-F2-(1)

Tgt Ion:168 Resp: 205333

Ion Ratio Lower Upper

168 100

99 52.0 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

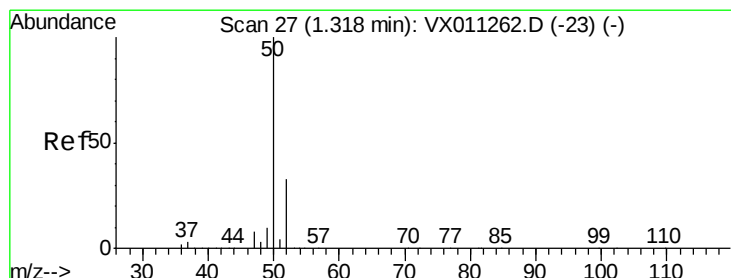
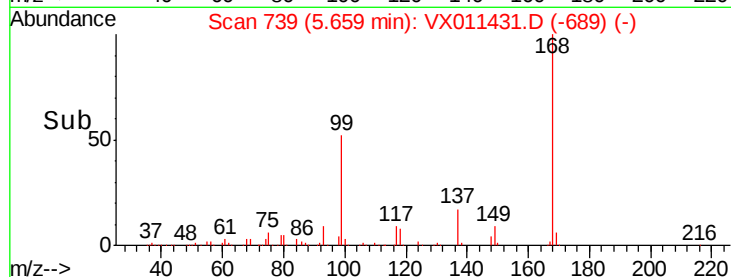
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011431.D

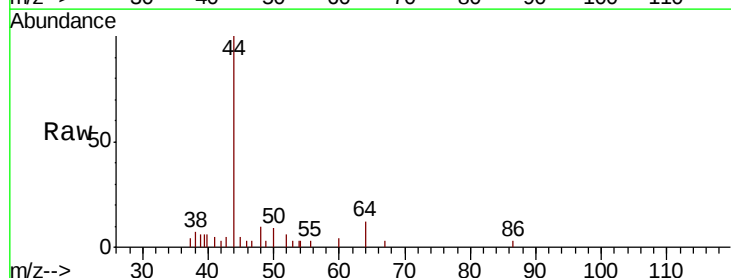
Acq: 11 Aug 2019 15:05

Tgt Ion: 50 Resp: 362

Ion Ratio Lower Upper

50 100

52 70.3 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

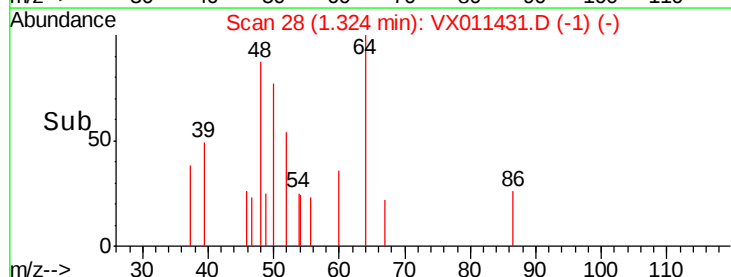
150

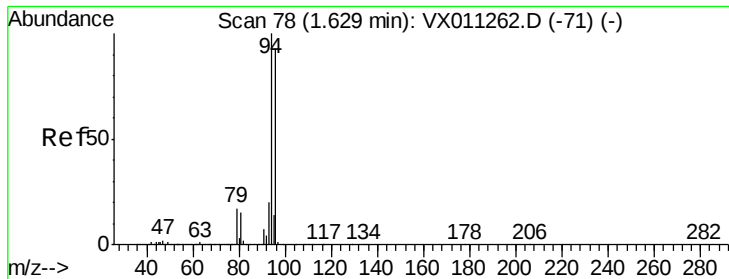
100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.339 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampled :

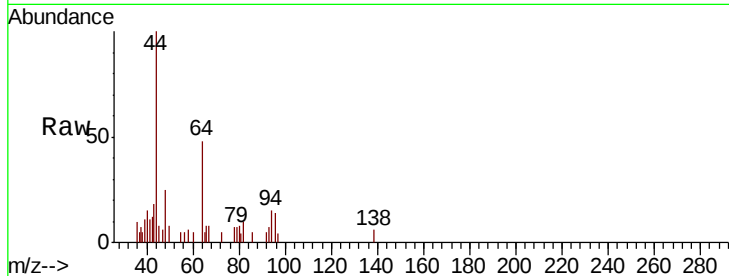
2S-F2-(1)

Tgt Ion: 94 Resp: 474

Ion Ratio Lower Upper

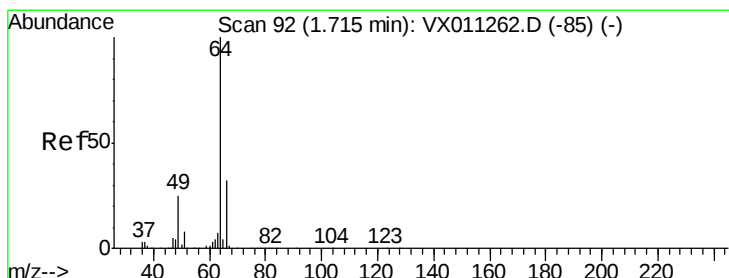
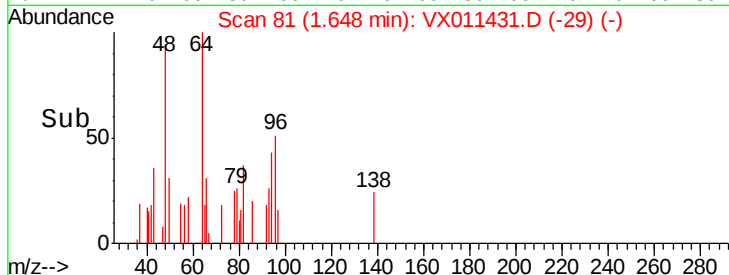
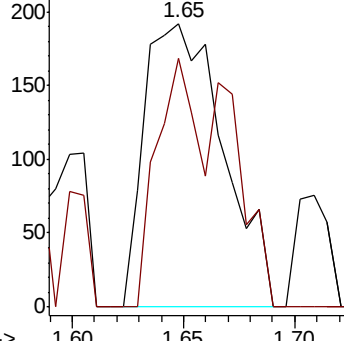
94 100

96 87.5 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX011431.D

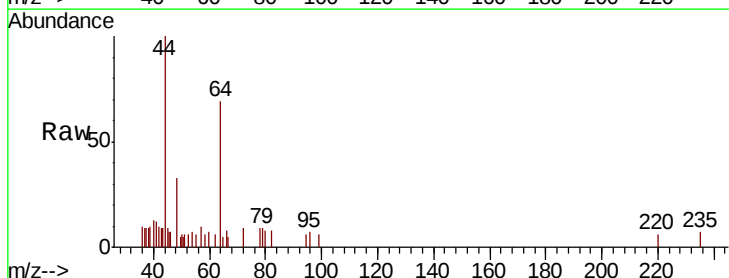
Acq: 11 Aug 2019 15:05

Tgt Ion: 64 Resp: 342

Ion Ratio Lower Upper

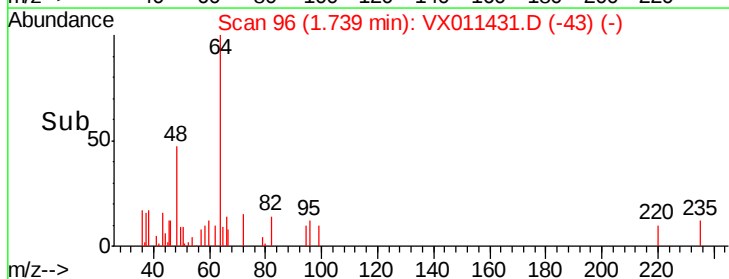
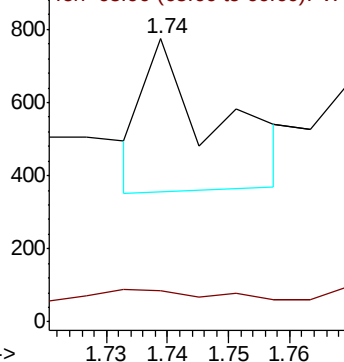
64 100

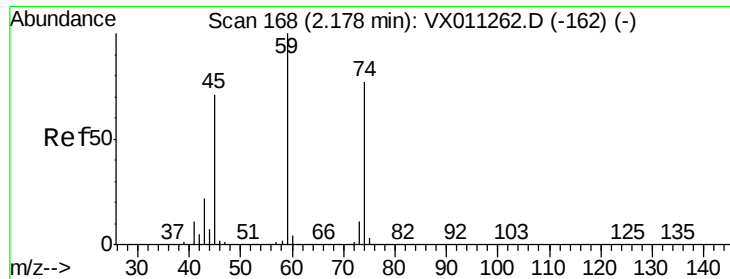
66 9.7 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.280 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

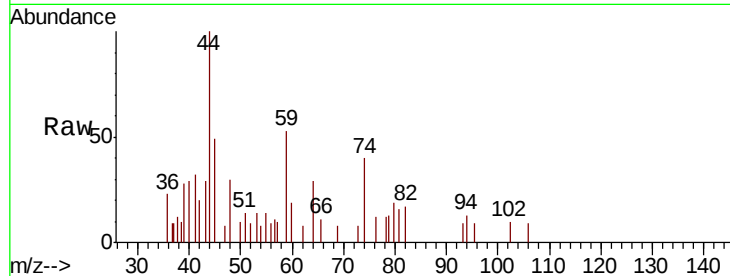
2S-F2-(1)

Tgt Ion: 74 Resp: 348

Ion Ratio Lower Upper

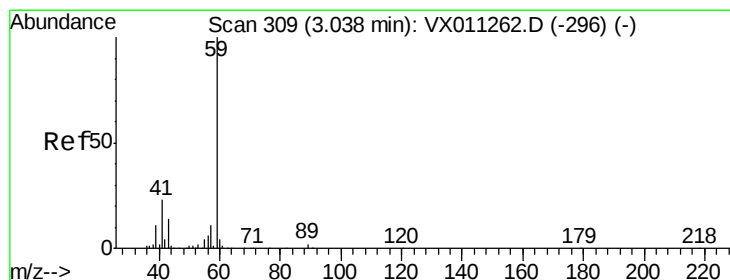
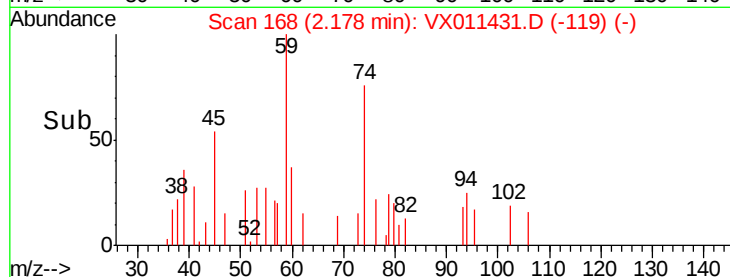
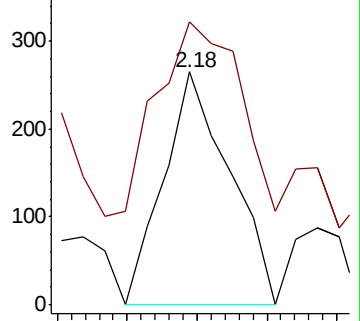
74 100

45 129.6 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: 13.654 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011431.D

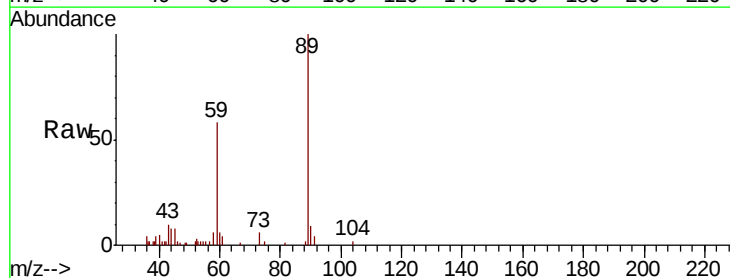
Acq: 11 Aug 2019 15:05

Tgt Ion: 59 Resp: 5621

Ion Ratio Lower Upper

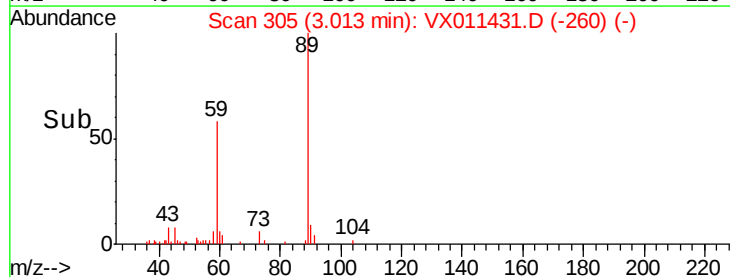
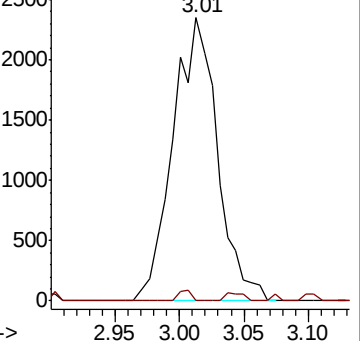
59 100

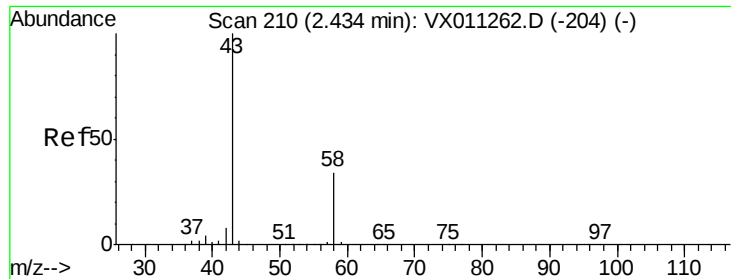
57 1.1 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 9.379 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

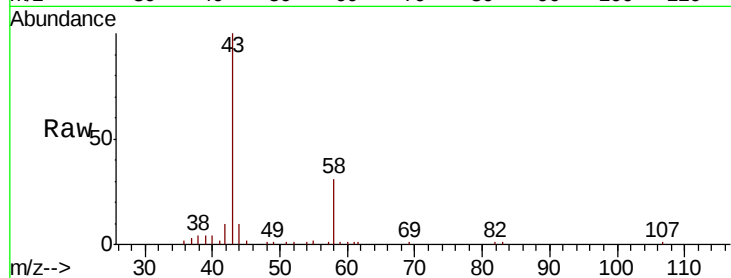
2S-F2-(1)

Tgt Ion: 43 Resp: 9231

Ion Ratio Lower Upper

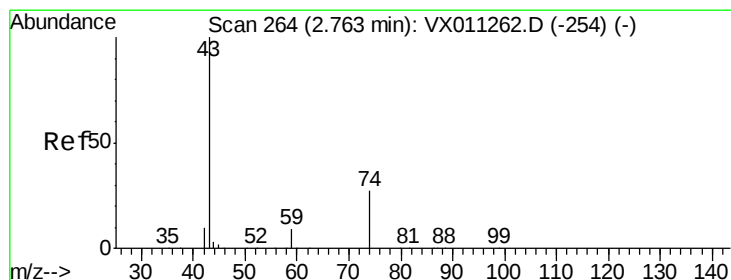
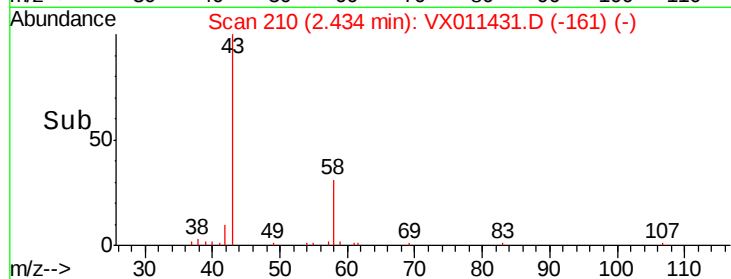
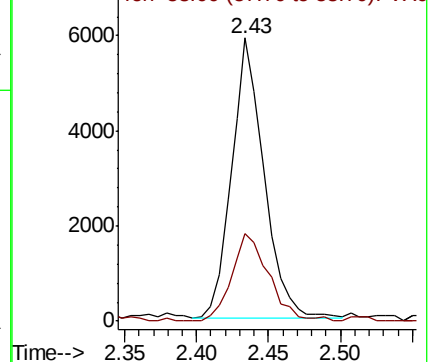
43 100

58 31.2 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: 0.688 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX011431.D

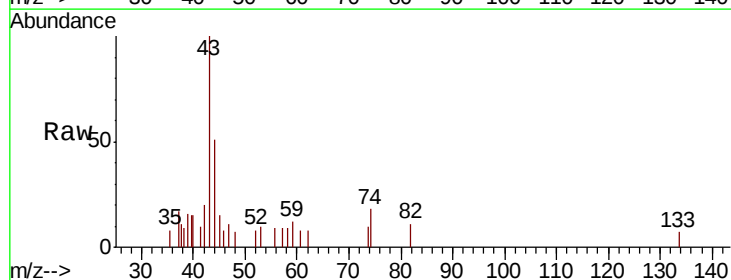
Acq: 11 Aug 2019 15:05

Tgt Ion: 43 Resp: 1547

Ion Ratio Lower Upper

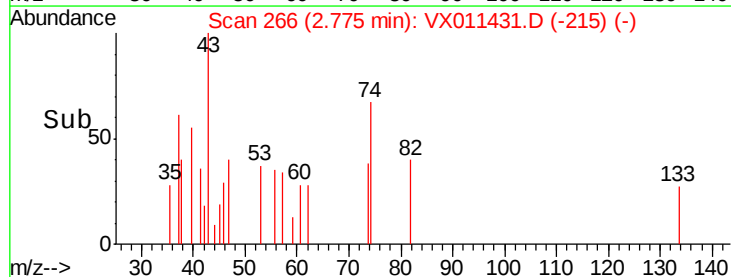
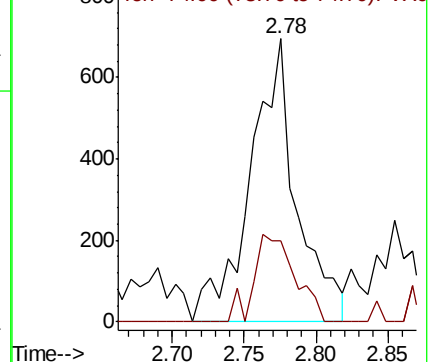
43 100

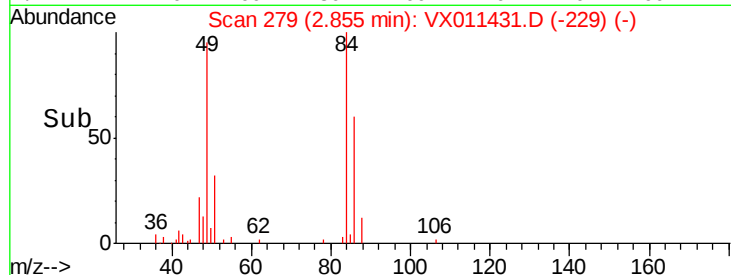
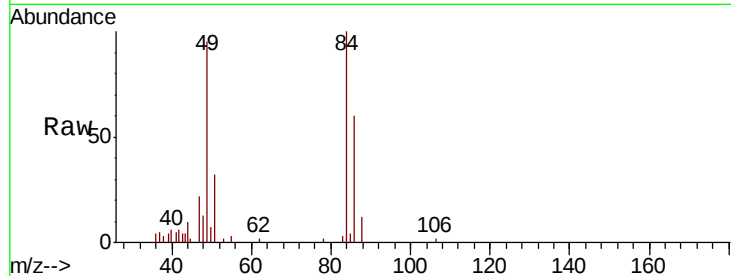
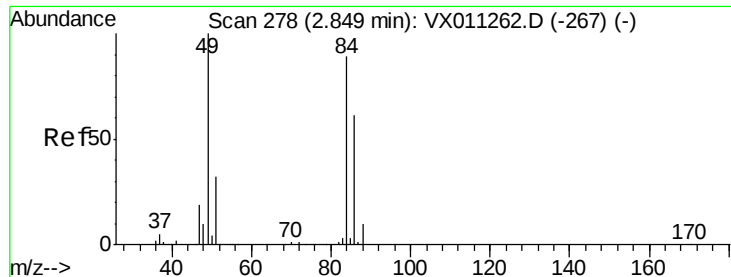
74 27.5 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

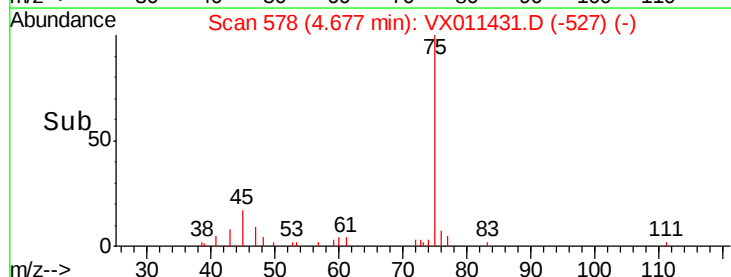
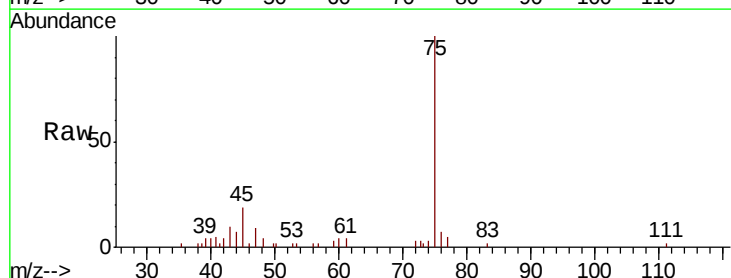
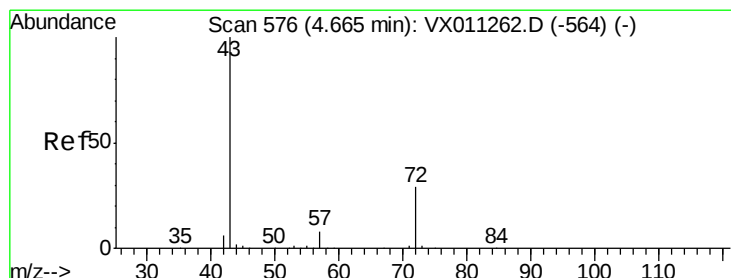
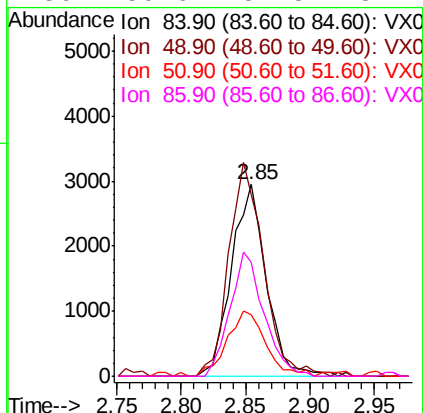




#20
Methylene Chloride
Concen: 2.582 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011431.D
Acq: 11 Aug 2019 15:05

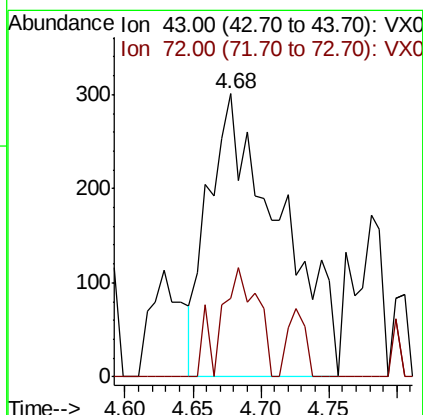
Instrument :
MSVOA_X
ClientSampleId :
2S-F2-(1)

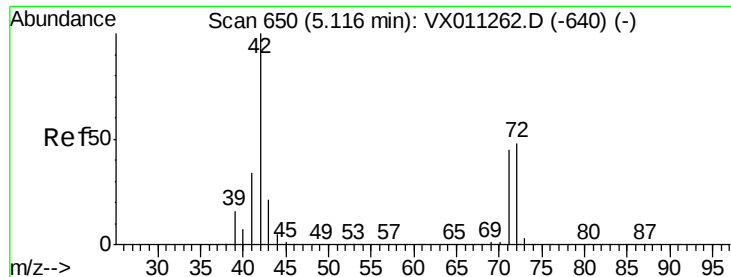
Tgt Ion:	84	Resp:	5566
Ion	Ratio	Lower	Upper
84	100		
49	94.6	89.3	133.9
51	32.0	28.3	42.5
86	59.6	54.5	81.7



#25
2-Butanone
Concen: 0.779 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX011431.D
Acq: 11 Aug 2019 15:05

Tgt Ion:	43	Resp:	1090
Ion	Ratio	Lower	Upper
43	100		
72	27.6	23.2	34.8





#29

Tetrahydrofuran

Concen: 0.332 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.02 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampled :

2S-F2-(1)

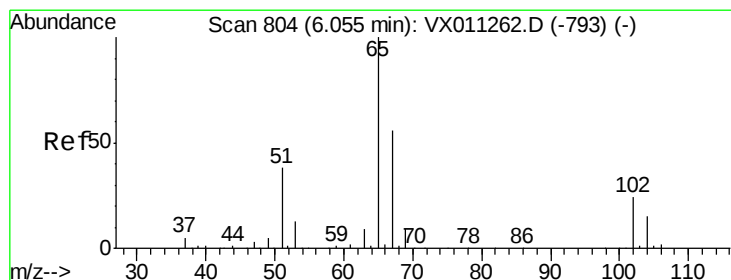
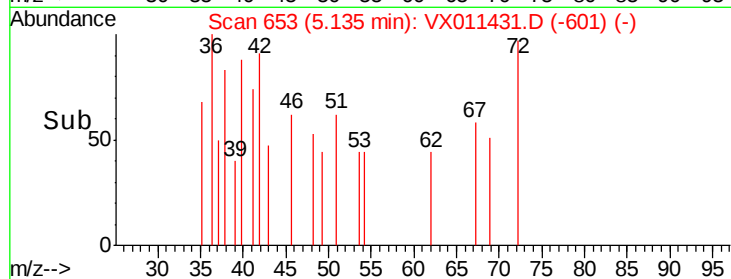
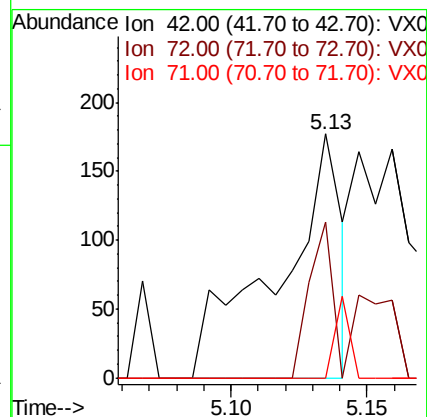
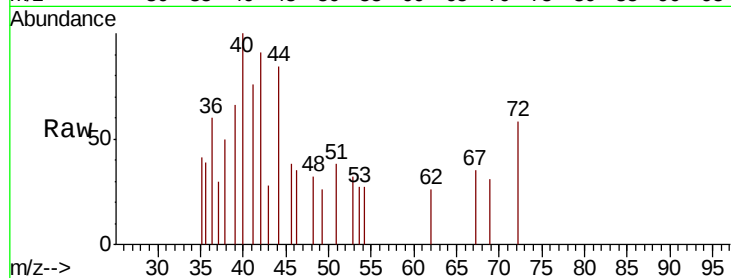
Tgt Ion: 42 Resp: 285

Ion Ratio Lower Upper

42 100

72 23.5 39.9 59.9#

71 7.7 36.9 55.3#



#33

1,2-Dichloroethane-d4

Concen: 53.101 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011431.D

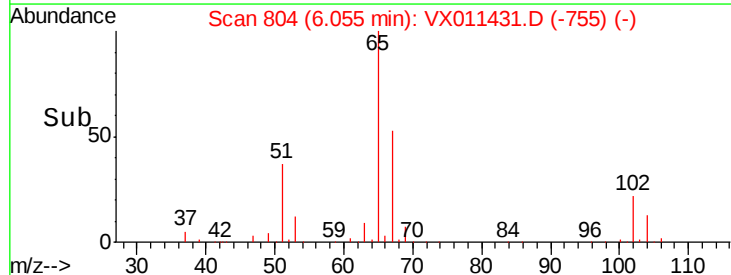
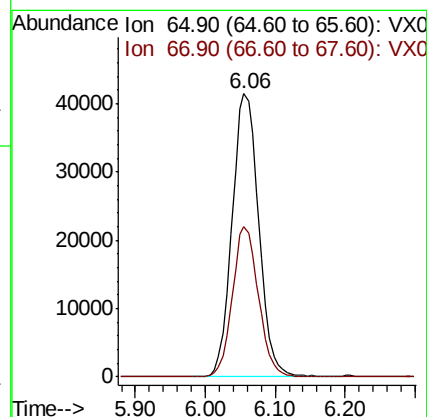
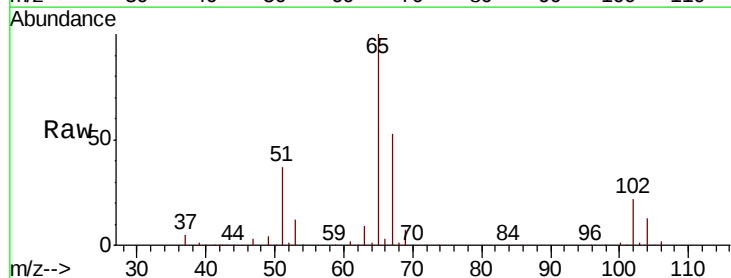
Acq: 11 Aug 2019 15:05

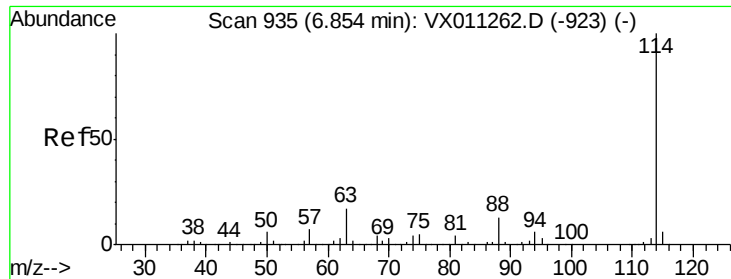
Tgt Ion: 65 Resp: 109804

Ion Ratio Lower Upper

65 100

67 51.9 0.0 110.6

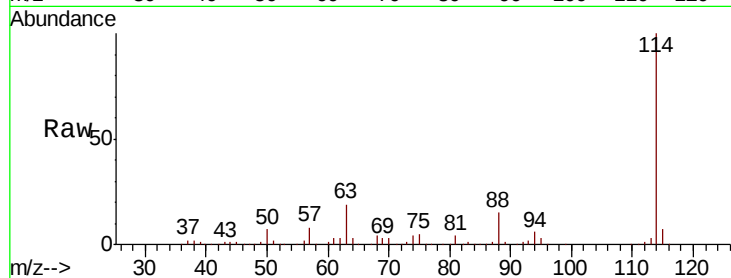




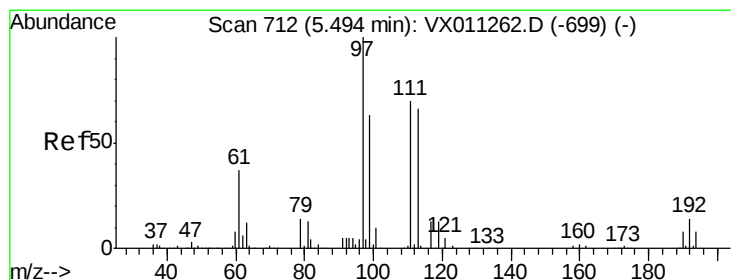
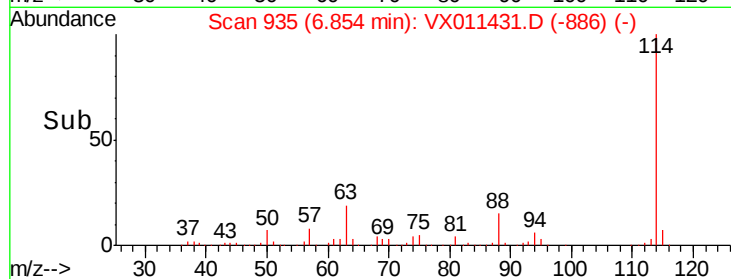
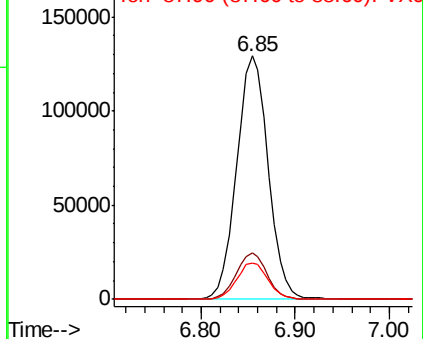
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011431.D
 Acq: 11 Aug 2019 15:05

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F2-(1)

Tgt Ion:114 Resp: 302843
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 34.0
 88 15.0 0.0 26.4

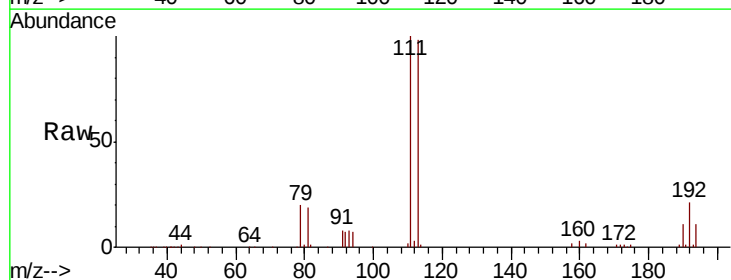


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

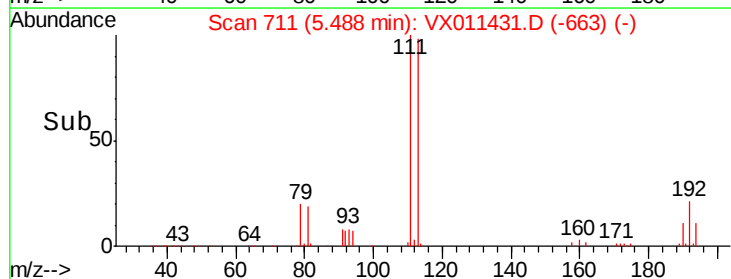
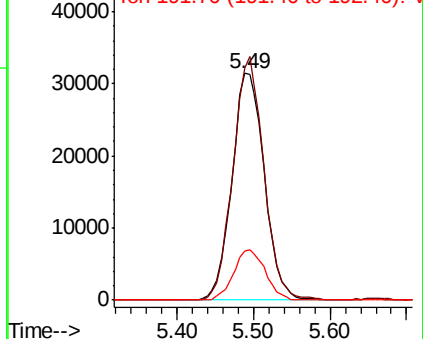


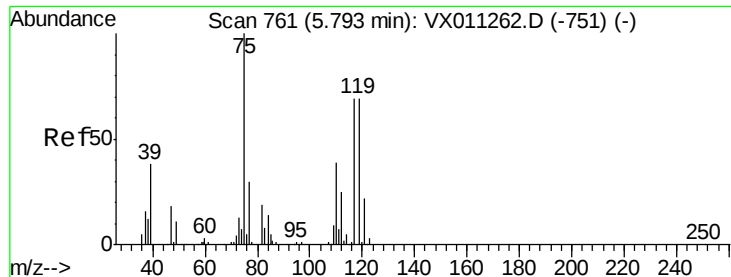
#35
 Dibromofluoromethane
 Concen: 46.599 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011431.D
 Acq: 11 Aug 2019 15:05

Tgt Ion:113 Resp: 92136
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.9 122.9
 192 21.7 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

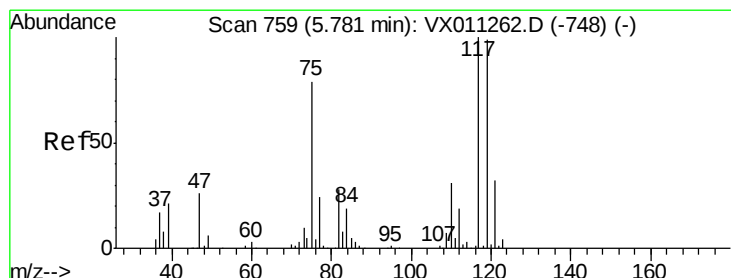
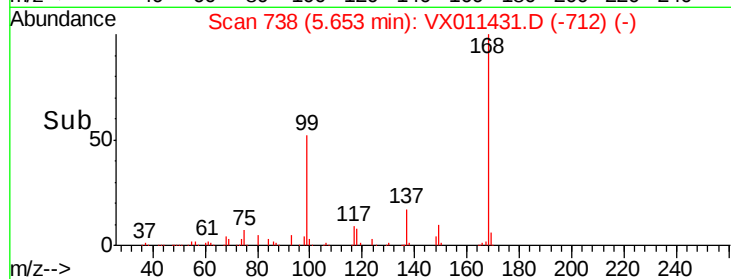
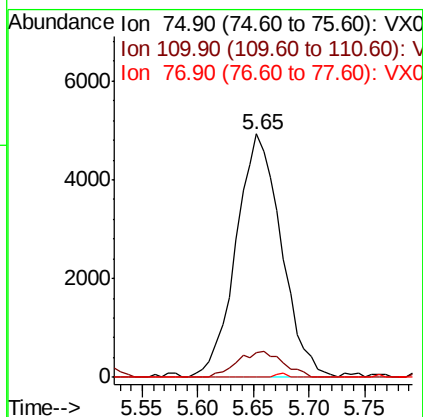
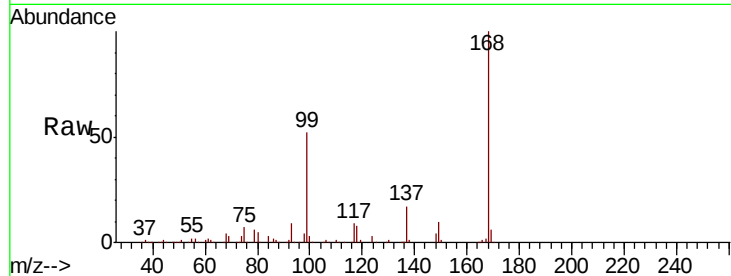




#36
 1,1-Dichloropropene
 Concen: 5.255 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011431.D
 Acq: 11 Aug 2019 15:05

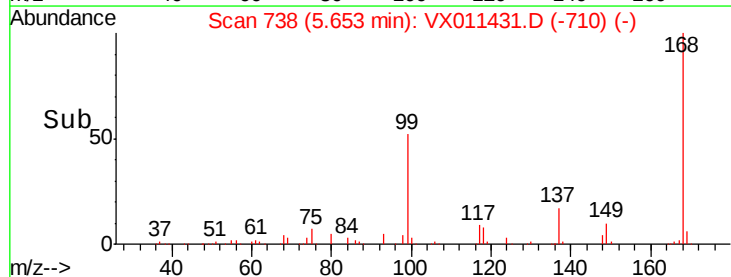
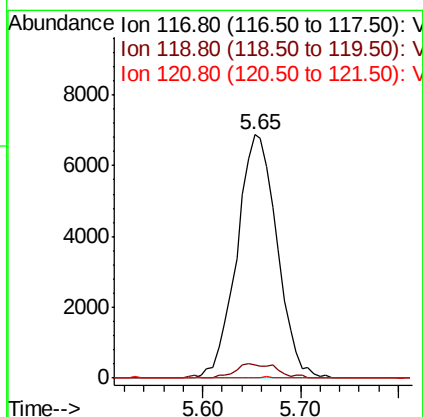
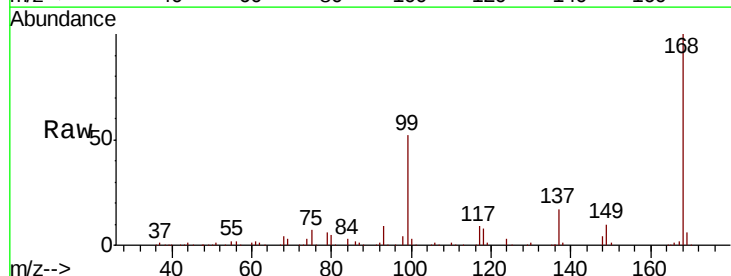
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F2-(1)

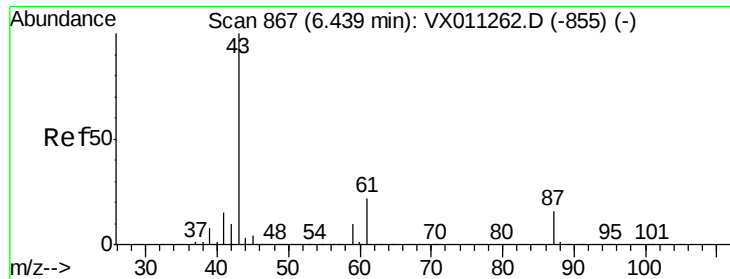
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	20.0	59.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.339 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX011431.D
 Acq: 11 Aug 2019 15:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	79.0	118.4#
121	0.0	25.9	38.9#





#43

Isopropyl Acetate

Concen: 1.922 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

2S-F2-(1)

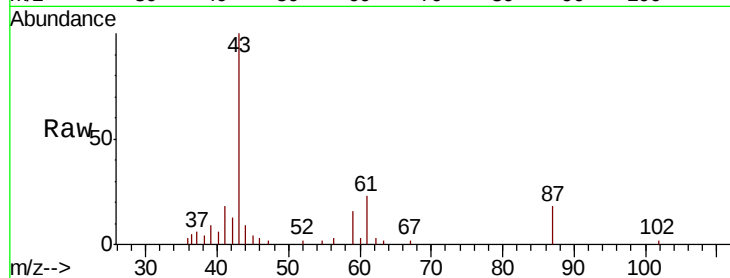
Tgt Ion: 43 Resp: 8148

Ion Ratio Lower Upper

43 100

61 24.0 16.5 24.7

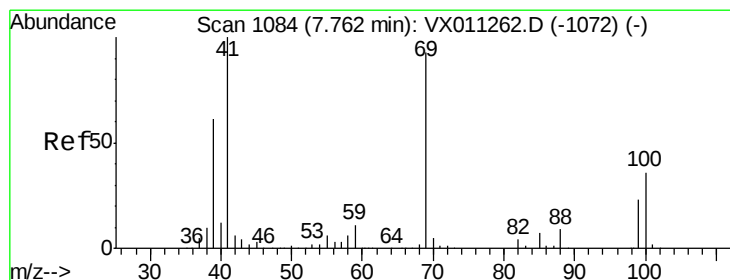
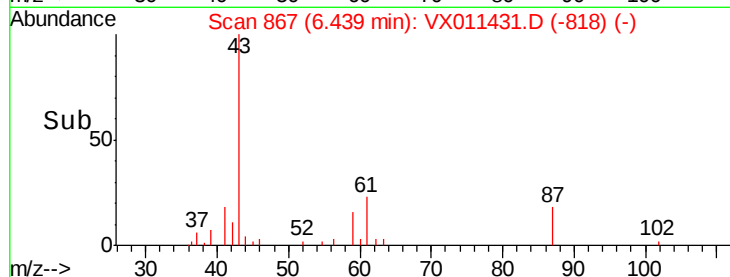
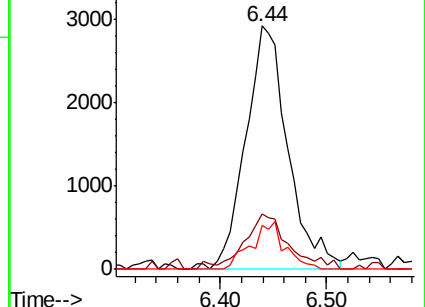
87 15.7 12.1 18.1



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: 1.930 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

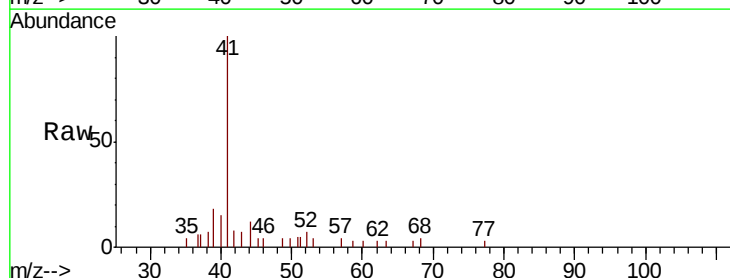
Tgt Ion: 41 Resp: 3852

Ion Ratio Lower Upper

41 100

69 0.0 74.5 111.7#

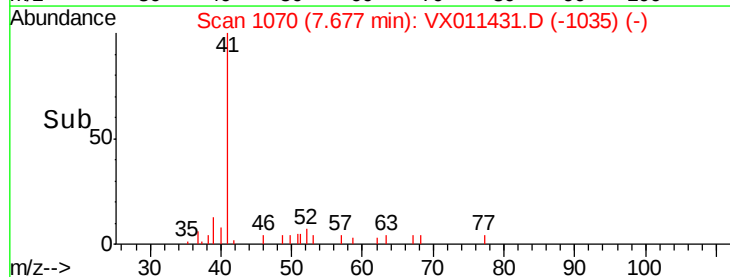
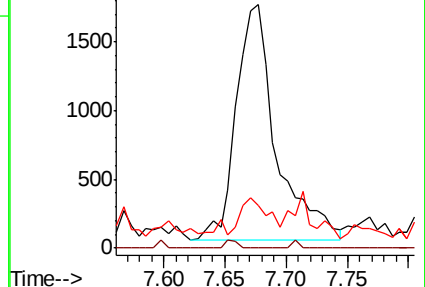
39 0.0 48.6 72.8#

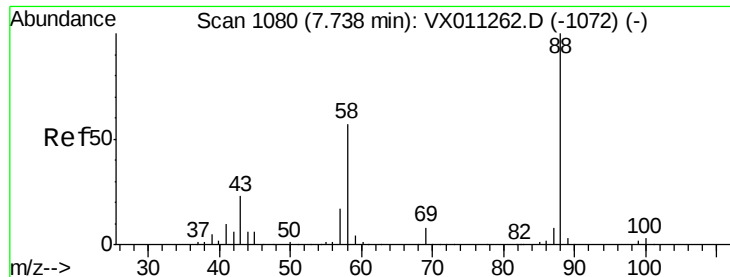


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 1.988 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.13 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

2S-F2-(1)

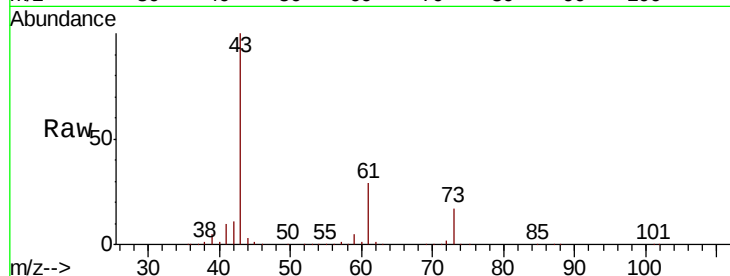
Tgt Ion: 88 Resp: 115

Ion Ratio Lower Upper

88 100

43 519999.1 22.2 33.2#

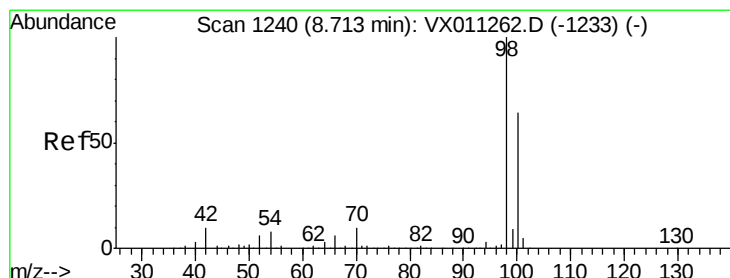
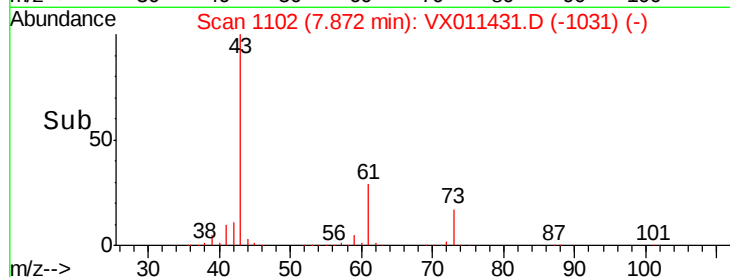
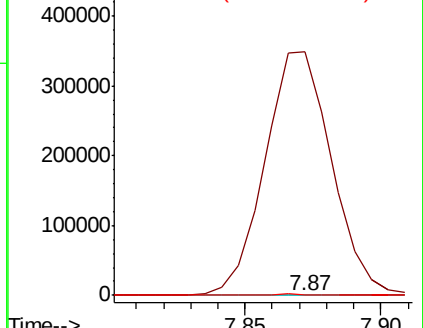
58 2605.2 47.8 71.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 48.682 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011431.D

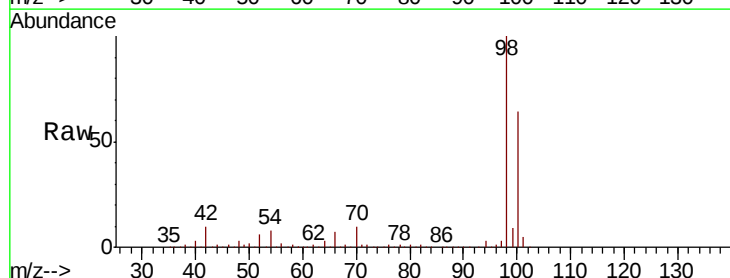
Acq: 11 Aug 2019 15:05

Tgt Ion: 98 Resp: 363333

Ion Ratio Lower Upper

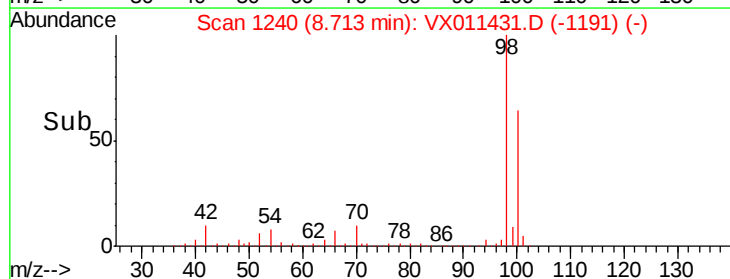
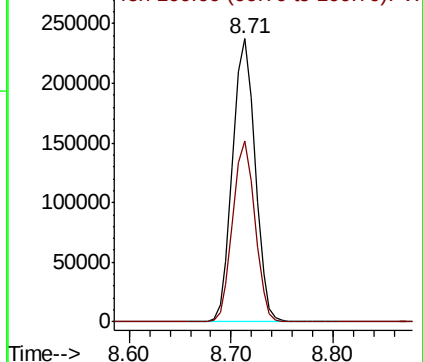
98 100

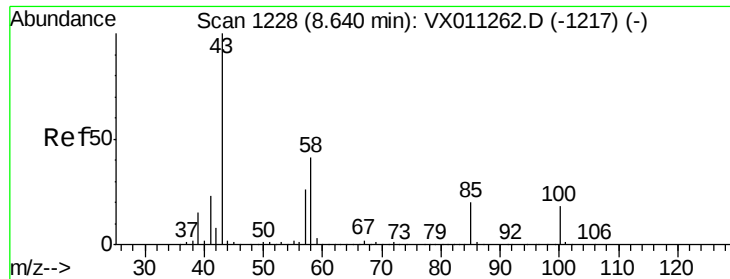
100 63.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 16.468 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

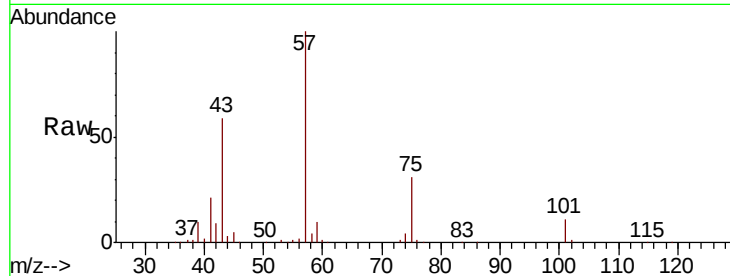
2S-F2-(1)

Tgt Ion: 43 Resp: 45066

Ion Ratio Lower Upper

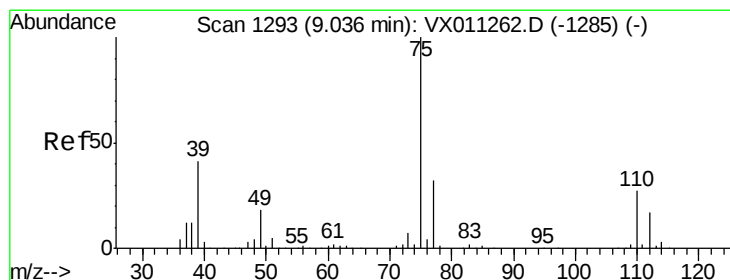
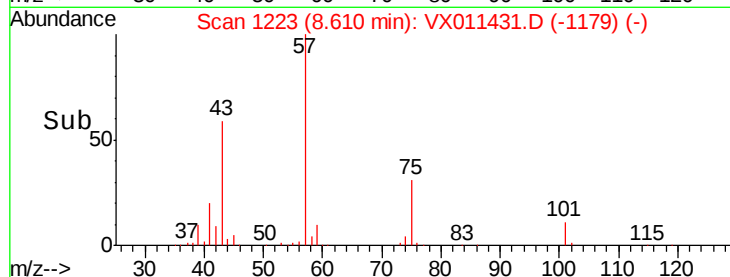
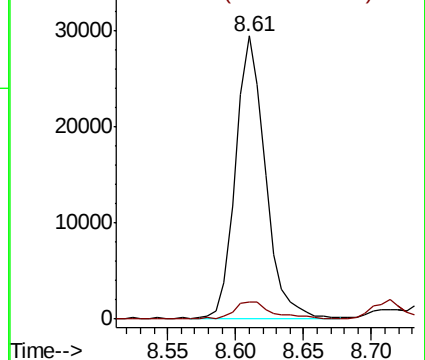
43 100

58 8.0 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: 2.859 ug/l

RT: 9.03 min Scan# 1292

Delta R.T. -0.01 min

Lab File: VX011431.D

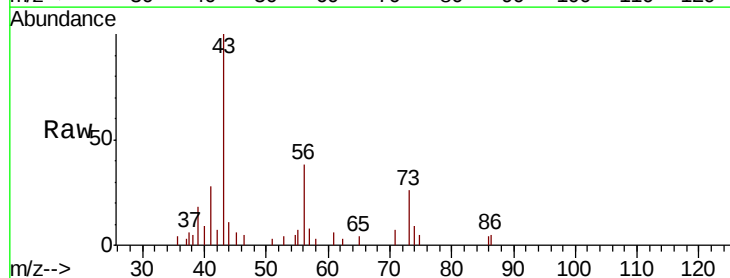
Acq: 11 Aug 2019 15:05

Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

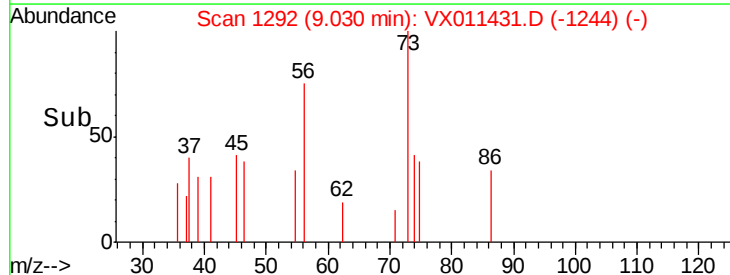
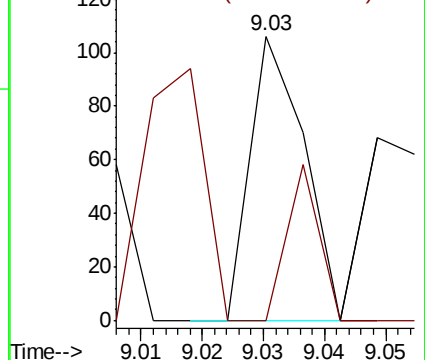
75 100

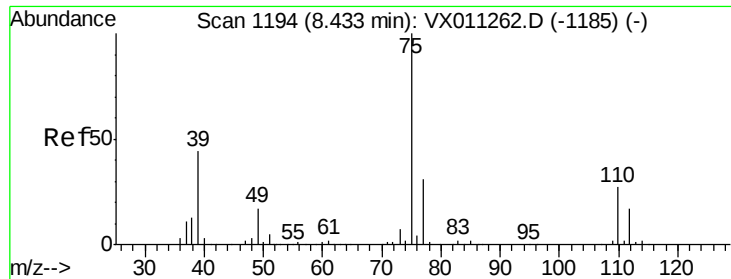
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



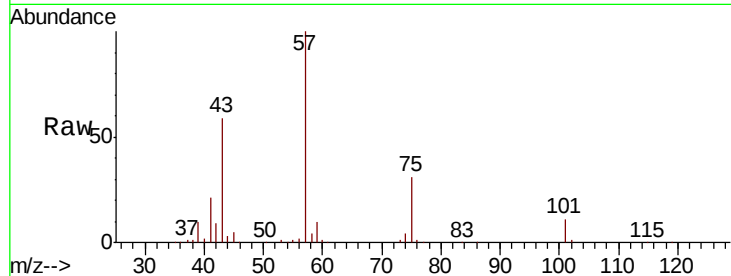


#54

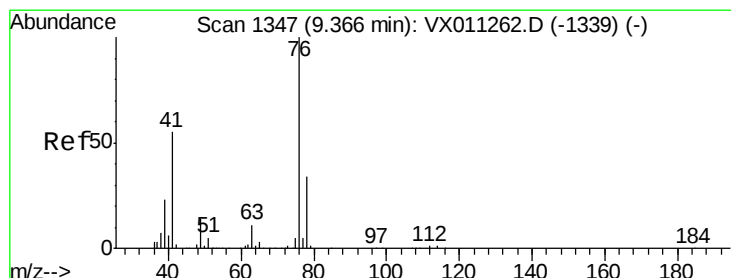
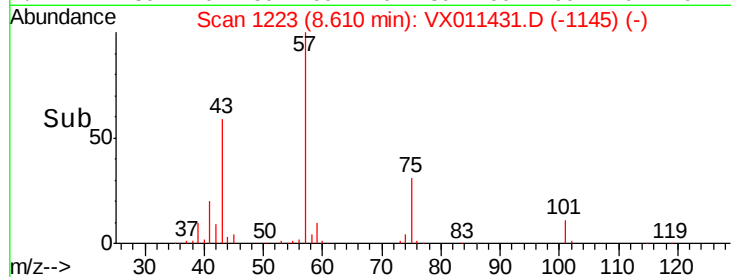
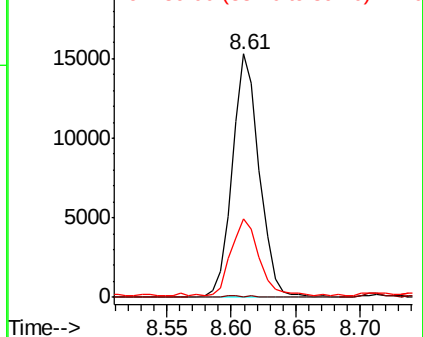
cis-1,3-Dichloropropene
 Concen: 7.561 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011431.D
 Acq: 11 Aug 2019 15:05

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F2-(1)

Tgt Ion: 75 Resp: 22308
 Ion Ratio Lower Upper
 75 100
 77 0.3 25.0 37.6#
 39 31.5 35.3 52.9#



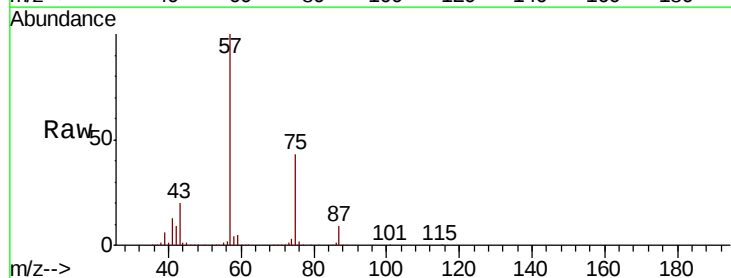
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



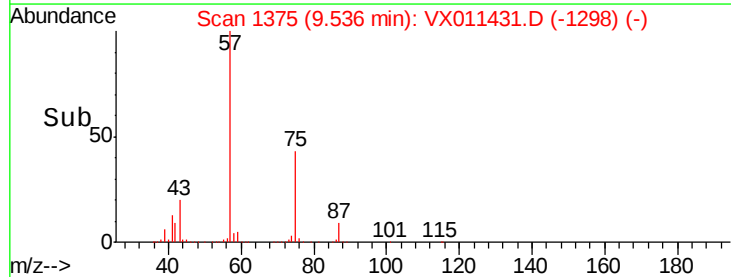
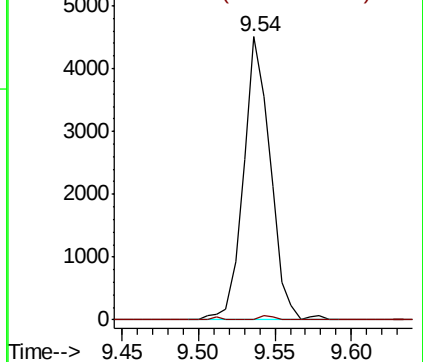
#57

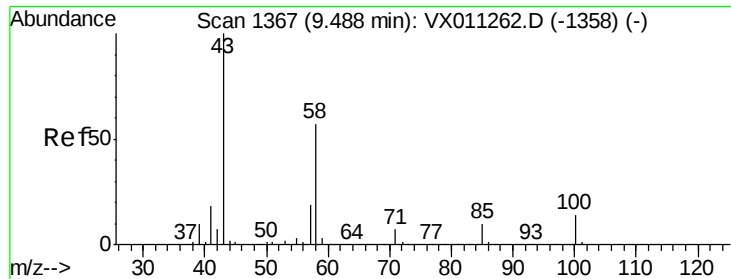
1,3-Dichloropropane
 Concen: 1.615 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.17 min
 Lab File: VX011431.D
 Acq: 11 Aug 2019 15:05

Tgt Ion: 76 Resp: 5480
 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

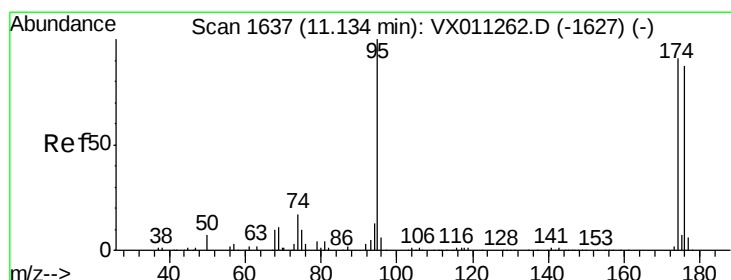
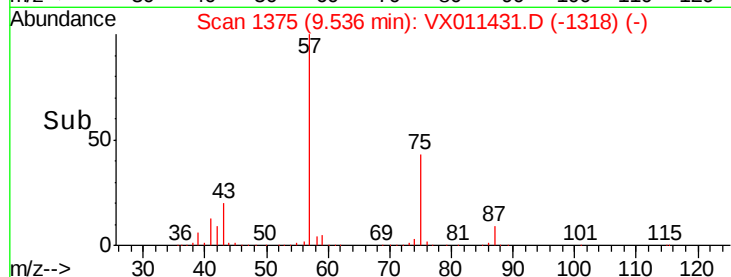
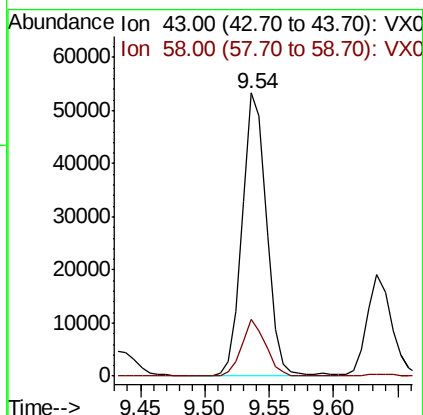
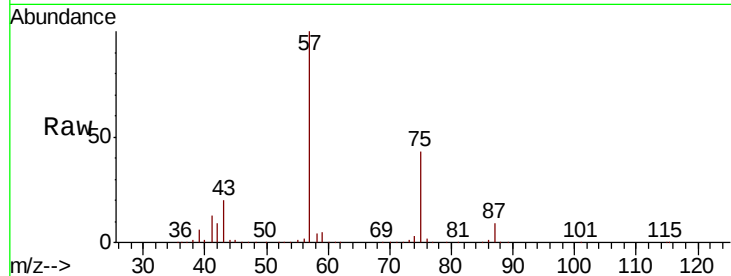




#59
2-Hexanone
Concen: 32.673 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011431.D
Acq: 11 Aug 2019 15:05

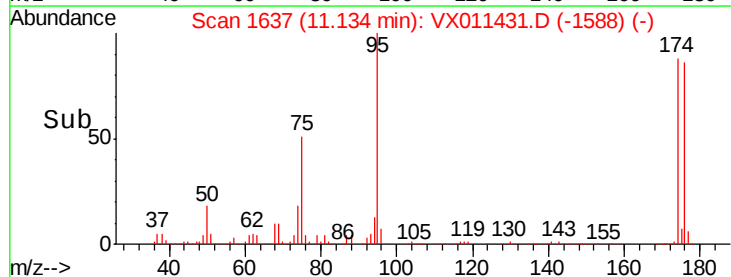
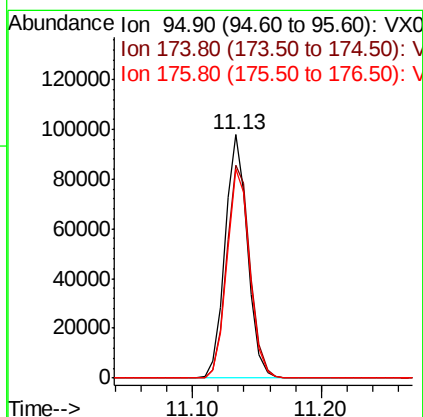
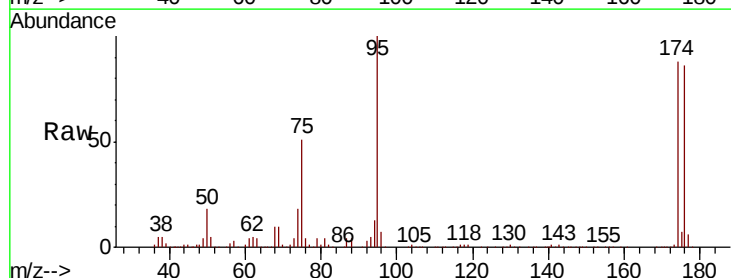
Instrument :
MSVOA_X
ClientSampled :
2S-F2-(1)

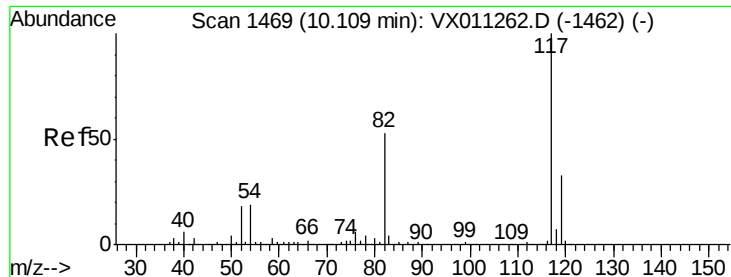
Tgt Ion: 43 Resp: 69255
Ion Ratio Lower Upper
43 100
58 20.2 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 45.282 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011431.D
Acq: 11 Aug 2019 15:05

Tgt Ion: 95 Resp: 120660
Ion Ratio Lower Upper
95 100
174 91.3 0.0 191.2
176 87.5 0.0 184.8

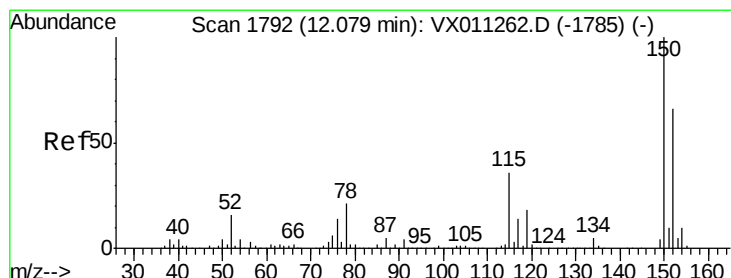
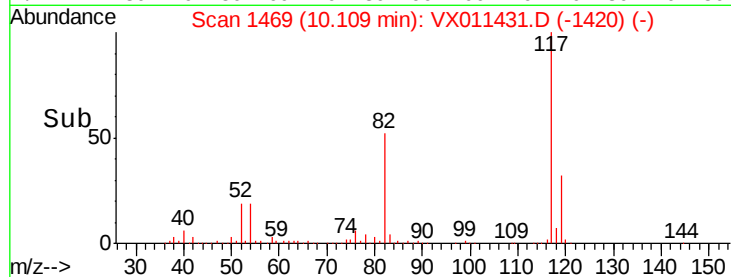
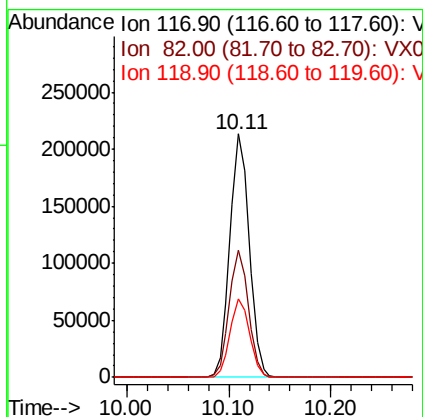
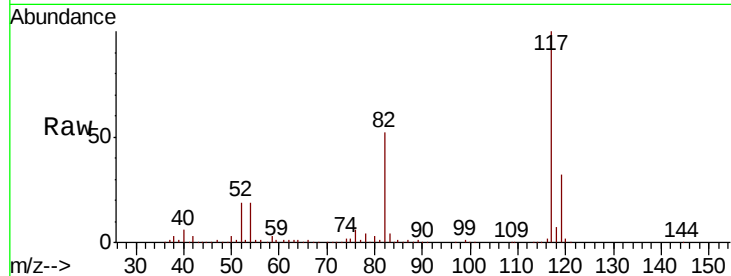




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011431.D
Acq: 11 Aug 2019 15:05

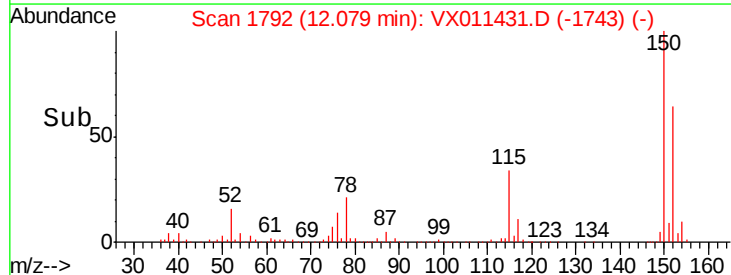
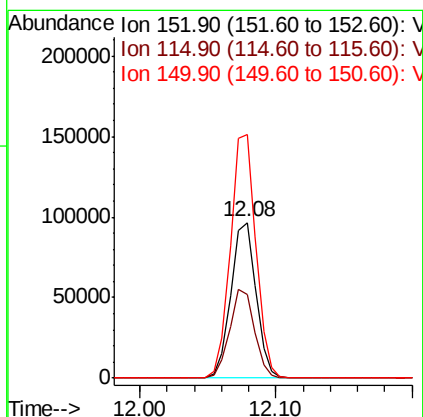
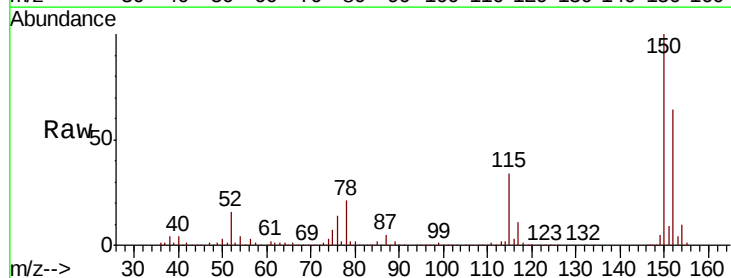
Instrument :
MSVOA_X
ClientSampled :
2S-F2-(1)

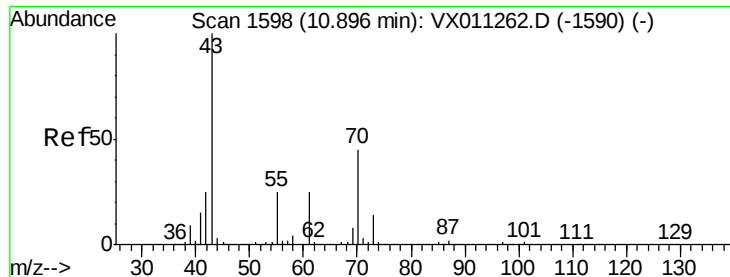
Tgt Ion:117 Resp: 279698
Ion Ratio Lower Upper
117 100
82 52.2 42.2 63.2
119 32.2 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011431.D
Acq: 11 Aug 2019 15:05

Tgt Ion:152 Resp: 124537
Ion Ratio Lower Upper
152 100
115 56.2 40.0 119.9
150 157.9 0.0 350.4





#74

N-ethyl acetate

Concen: 2.043 ug/l

RT: 10.69 min Scan# 1564

Delta R.T. -0.21 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

2S-F2-(1)

Tgt Ion: 43 Resp: 6289

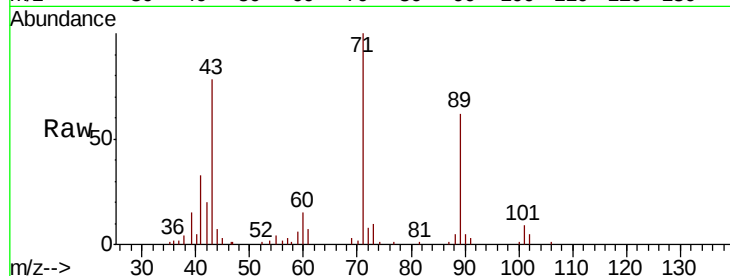
Ion Ratio Lower Upper

43 100

70 3.0 35.9 53.9#

55 5.9 19.8 29.6#

61 10.9 19.7 29.5#

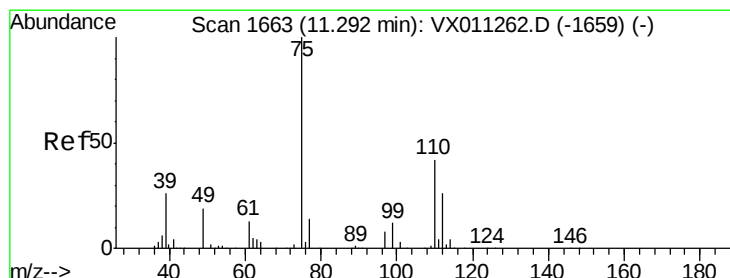
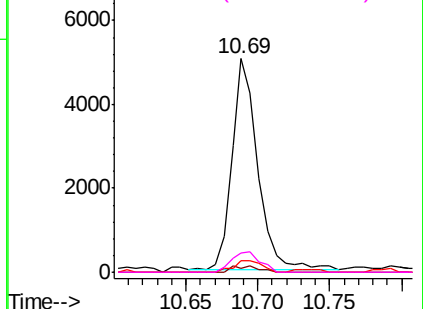
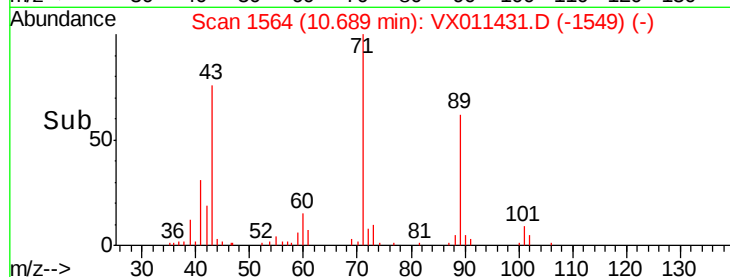


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 26.976 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011431.D

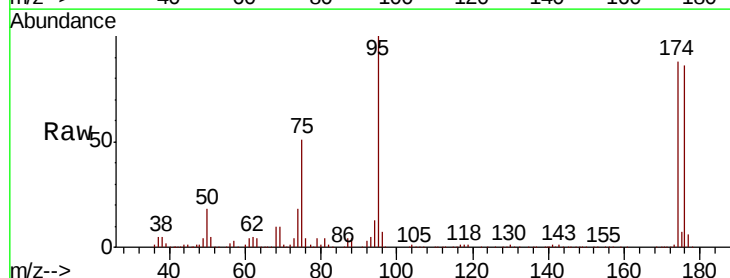
Acq: 11 Aug 2019 15:05

Tgt Ion: 75 Resp: 61180

Ion Ratio Lower Upper

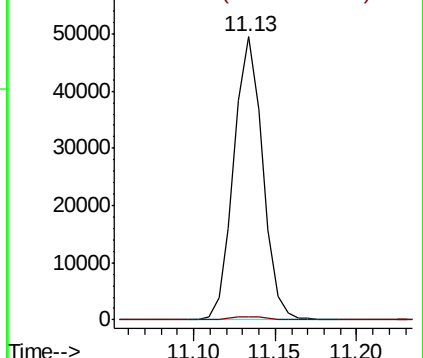
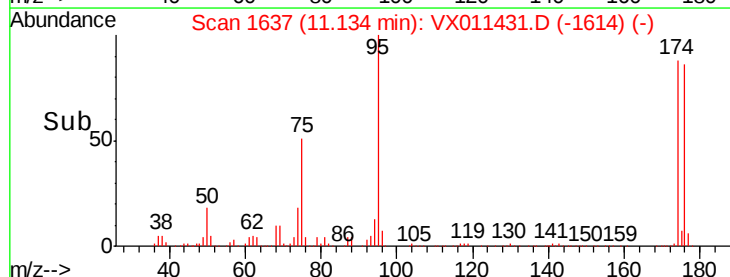
75 100

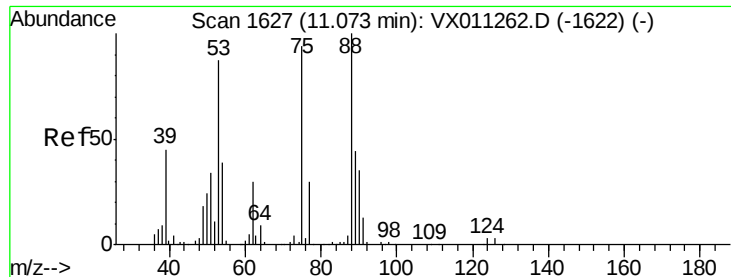
77 1.3 21.1 63.4#



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: 70.037 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011431.D

Acq: 11 Aug 2019 15:05

Instrument :

MSVOA_X

ClientSampleId :

2S-F2-(1)

Tgt Ion: 75 Resp: 61180

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#

