

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012619\
 Data File : VX007242.D
 Acq On : 25 Jan 2019 21:08
 Operator : JC/SP
 Sample : PB116609ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 28 00:18:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	532564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	813662	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	788780	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	379850	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	288635	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
35) Dibromofluoromethane	5.51	113	256954	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
50) Toluene-d8	8.71	98	1006661	52.78	ug/l	0.00
Spiked Amount			Recovery	=	105.56%	
62) 4-Bromofluorobenzene	11.13	95	349836	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	

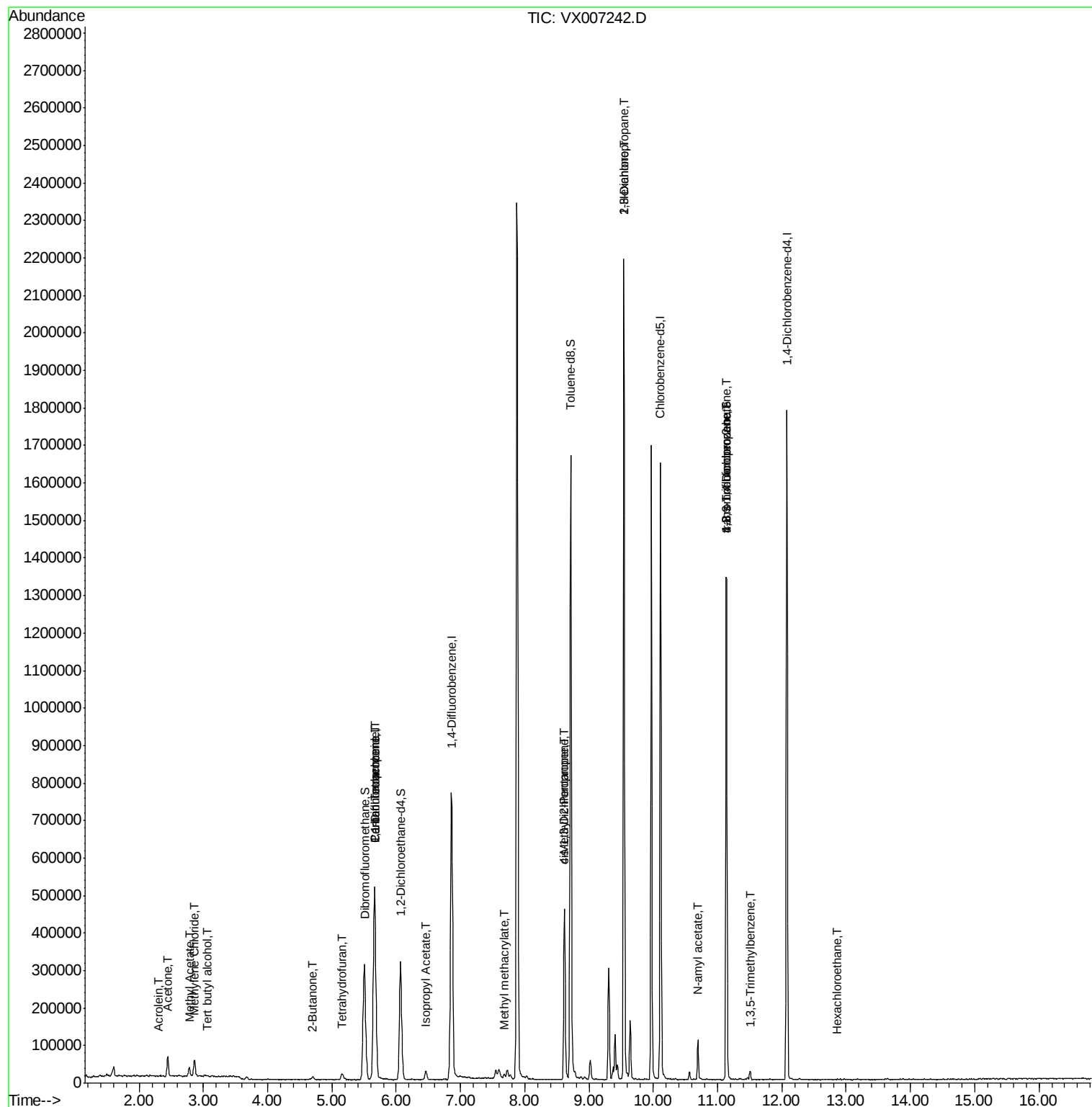
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.07	59	3287	2.504	ug/l	96
13) Acrolein	2.29	56	325	3.651	ug/l #	13
16) Acetone	2.45	43	57449	20.879	ug/l	97
18) Methyl Acetate	2.78	43	31201	3.916	ug/l	100
20) Methylene Chloride	2.86	84	20888	3.465	ug/l	92
25) 2-Butanone	4.70	43	13935	3.539	ug/l #	89
29) Tetrahydrofuran	5.16	42	14175	5.540	ug/l	98
36) 1,1-Dichloropropene	5.67	75	34120	4.823	ug/l #	49
38) Carbon Tetrachloride	5.66	117	47689	6.700	ug/l #	14
43) Isopropyl Acetate	6.46	43	28945	2.420	ug/l	98
48) Methyl methacrylate	7.68	41	13285	2.162	ug/l #	11
49) 1,4-Dioxane	7.74	88	195	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	152164	19.792	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	73892	9.295	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	18883	2.076	ug/l #	45
59) 2-Hexanone	9.54	43	239009	40.795	ug/l #	51
74) N-amyl acetate	10.69	43	25022	2.320	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	169893	22.071	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	10516	0.470	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.13	75	169893	65.351	ug/l #	10
90) Hexachloroethane	12.85	117	25	2.914	ug/l	85

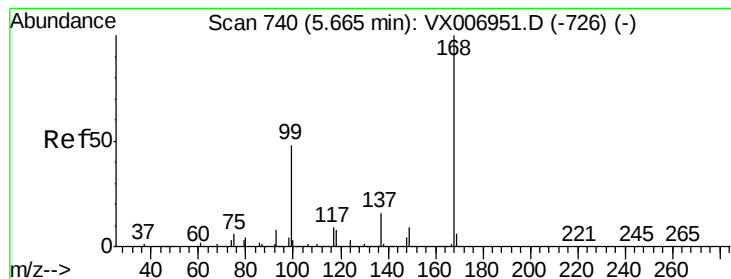
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

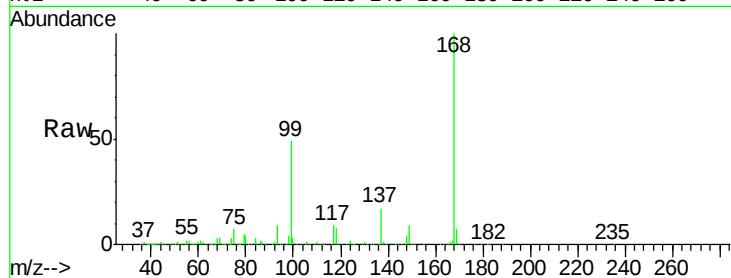
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 532564

Ion Ratio Lower Upper

168 100

99 48.9 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

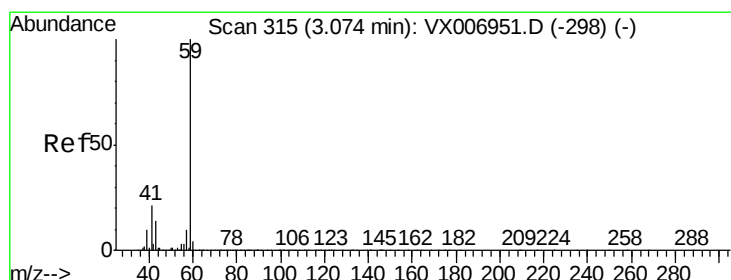
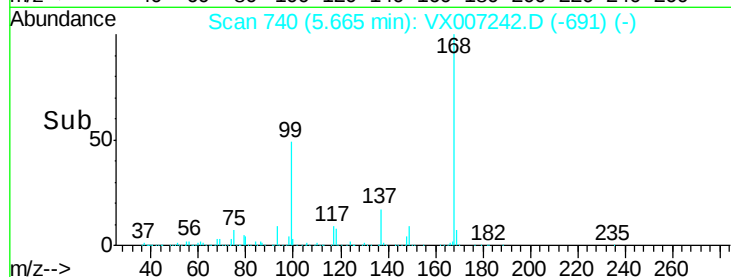
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.504 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX007242.D

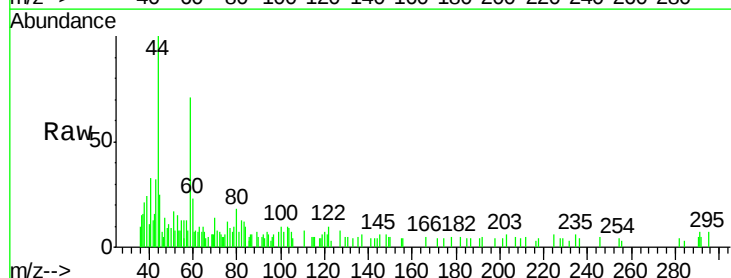
Acq: 25 Jan 2019 21:08

Tgt Ion: 59 Resp: 3287

Ion Ratio Lower Upper

59 100

57 9.1 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.07

1200

1000

800

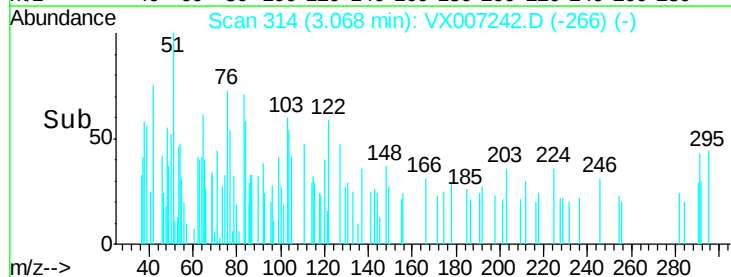
600

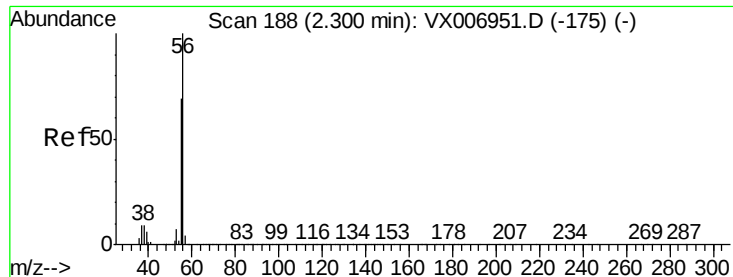
400

200

0

Time-->





#13

Acrolein

Concen: 3.651 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

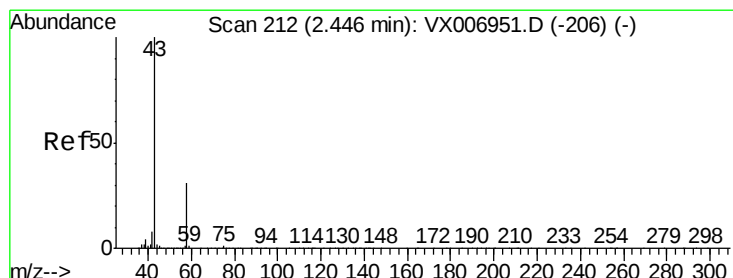
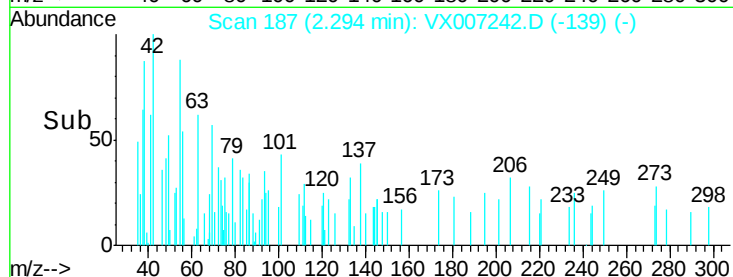
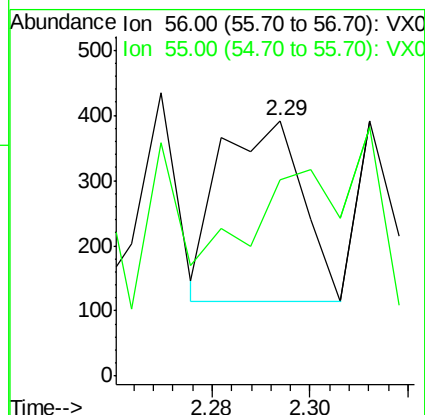
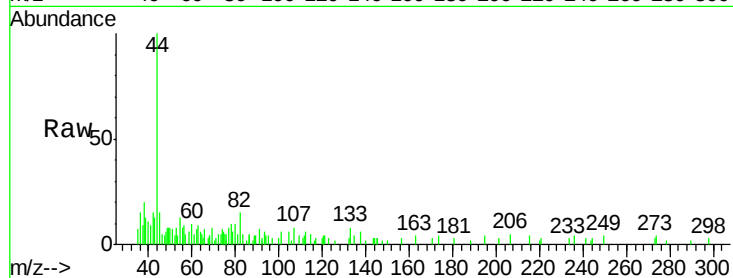
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 325

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#16

Acetone

Concen: 20.879 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007242.D

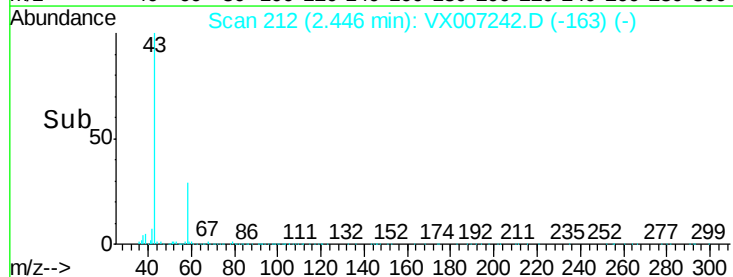
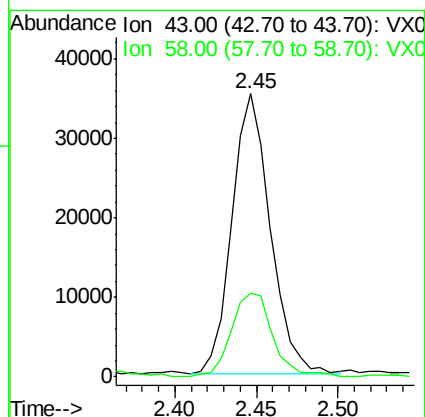
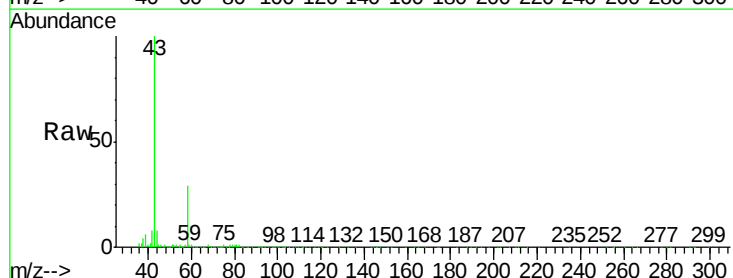
Acq: 25 Jan 2019 21:08

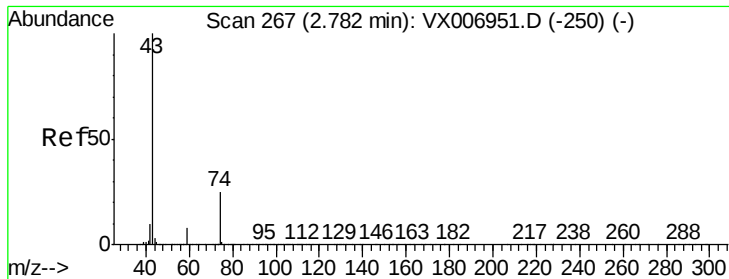
Tgt Ion: 43 Resp: 57449

Ion Ratio Lower Upper

43 100

58 29.4 25.0 37.6

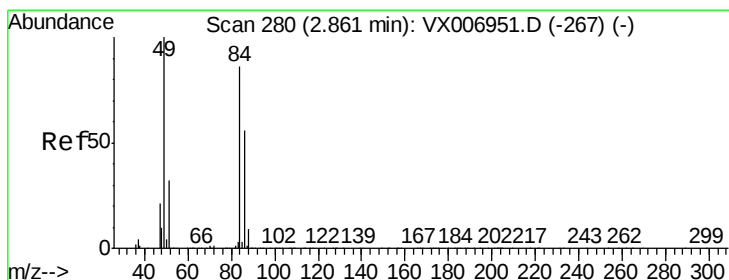
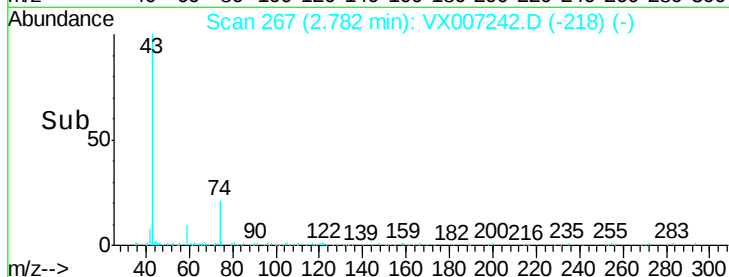
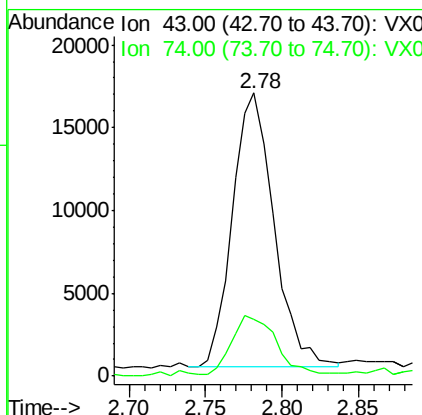
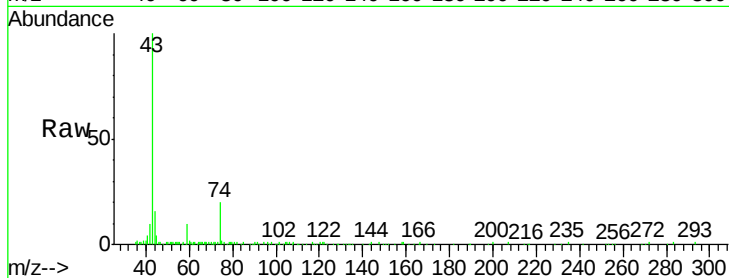




#18
Methyl Acetate
Concen: 3.916 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007242.D
Acq: 25 Jan 2019 21:08

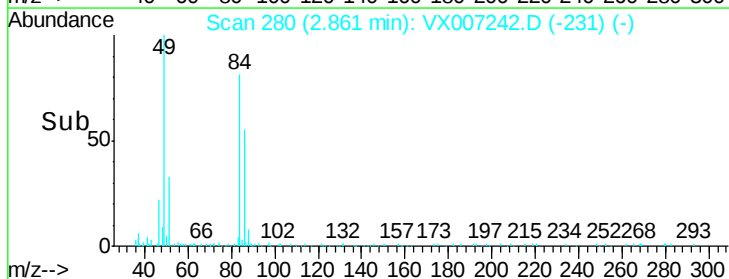
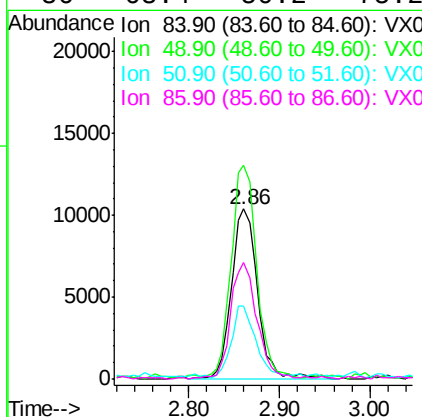
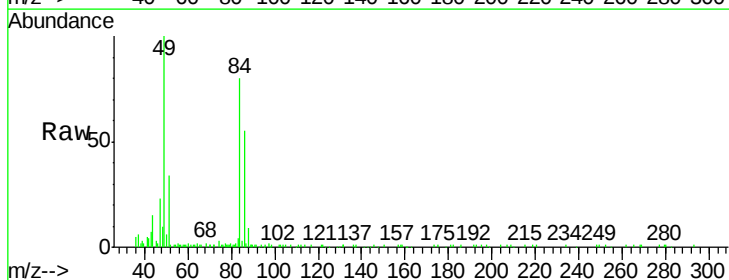
Instrument :
MSVOA_X
ClientSampleId :

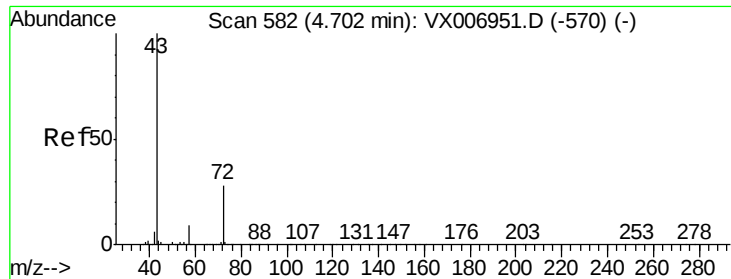
Tot Ion: 43 Resp: 31201
Ion Ratio Lower Upper
43 100
74 23.1 18.6 28.0



#20
Methylene Chloride
Concen: 3.465 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007242.D
Acq: 25 Jan 2019 21:08

Tgt Ion: 84 Resp: 20888
Ion Ratio Lower Upper
84 100
49 124.2 91.8 137.6
51 41.0 28.5 42.7
86 68.4 50.2 75.2

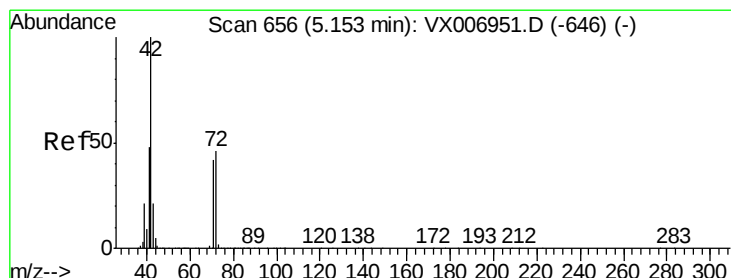
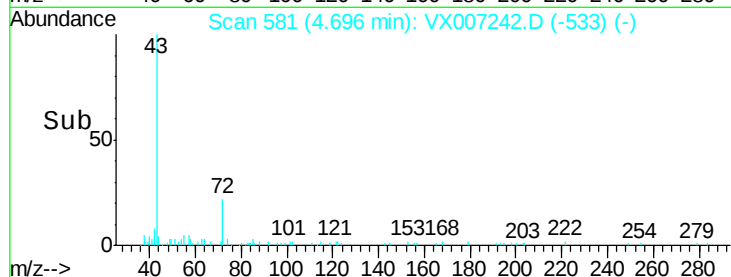
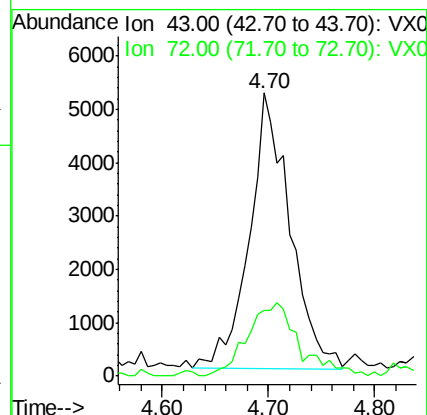
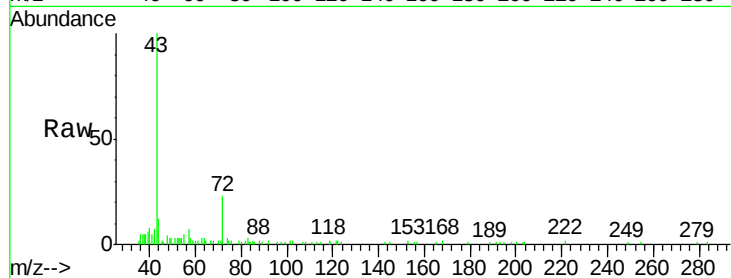




#25
2-Butanone
Concen: 3.539 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX007242.D
Acq: 25 Jan 2019 21:08

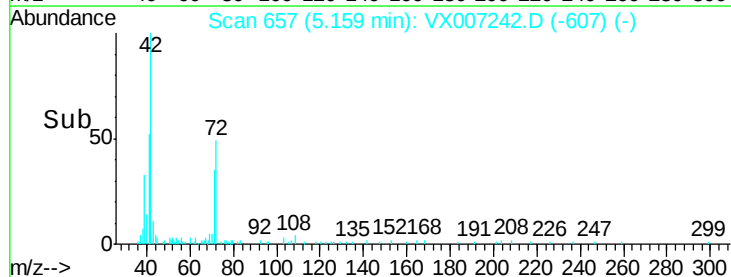
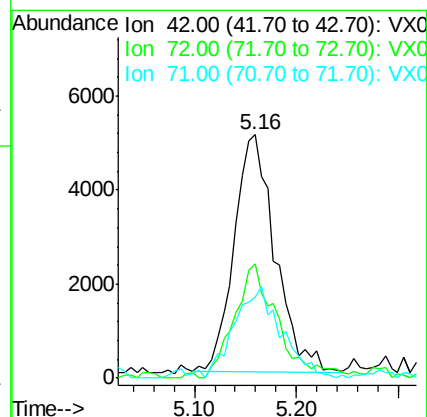
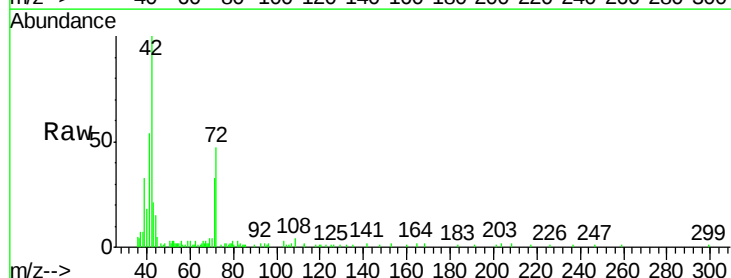
Instrument :
MSVOA_X
ClientSampleId :

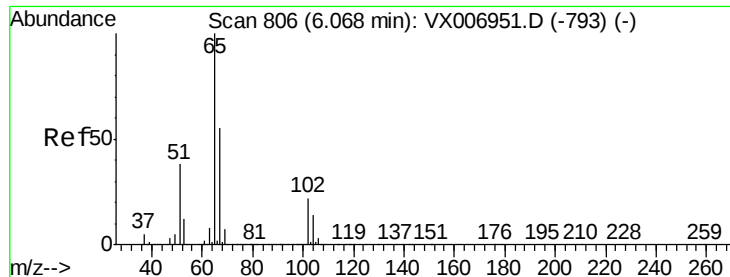
Tot Ion: 43 Resp: 13935
Ion Ratio Lower Upper
43 100
72 22.3 22.4 33.6#



#29
Tetrahydrofuran
Concen: 5.540 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX007242.D
Acq: 25 Jan 2019 21:08

Tgt Ion: 42 Resp: 14175
Ion Ratio Lower Upper
42 100
72 50.5 38.9 58.3
71 44.4 36.2 54.4





#33

1,2-Dichloroethane-d4

Concen: 51.859 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Instrument :

MSVOA_X

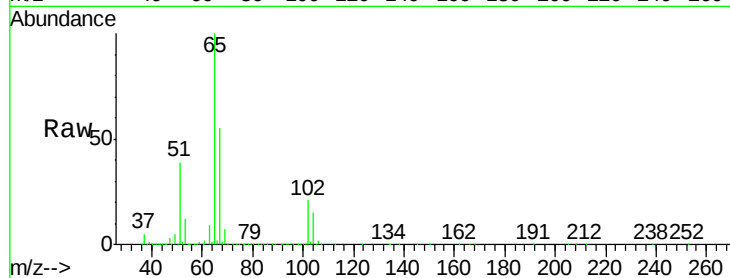
ClientSampleId :

Tot Ion: 65 Resp: 288635

Ion Ratio Lower Upper

65 100

67 53.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX006951.D (-793) (-)

Ion 66.90 (66.60 to 67.60): VX006951.D (-793) (-)

6.07

120000

100000

80000

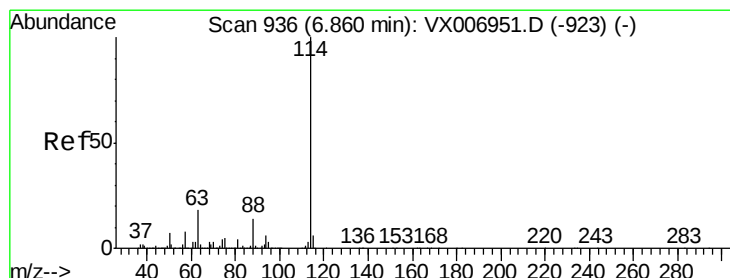
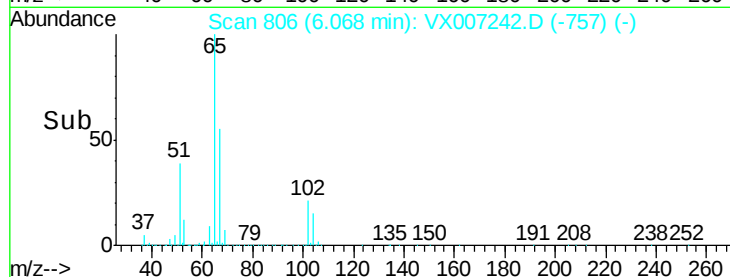
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

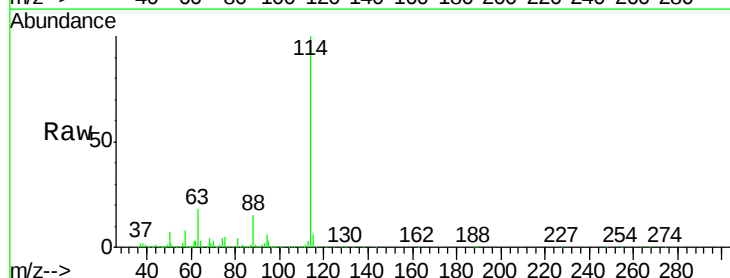
Tgt Ion: 114 Resp: 813662

Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.8

88 14.6 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): VX006951.D (-923) (-)

Ion 63.00 (62.70 to 63.70): VX006951.D (-923) (-)

Ion 87.90 (87.60 to 88.60): VX006951.D (-923) (-)

6.86

400000

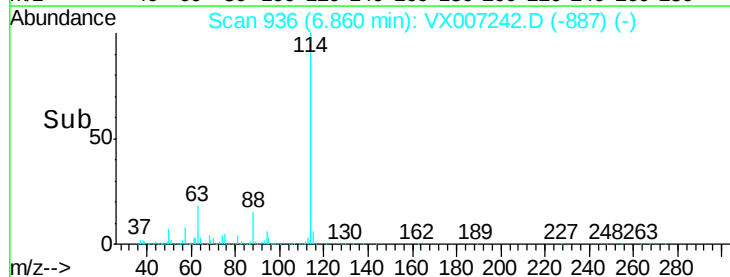
300000

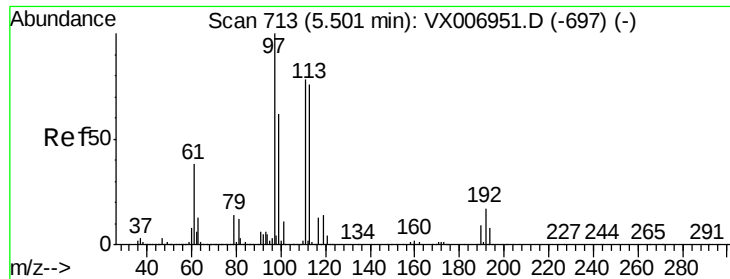
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 49.313 ug/l

RT: 5.51 min Scan# 714

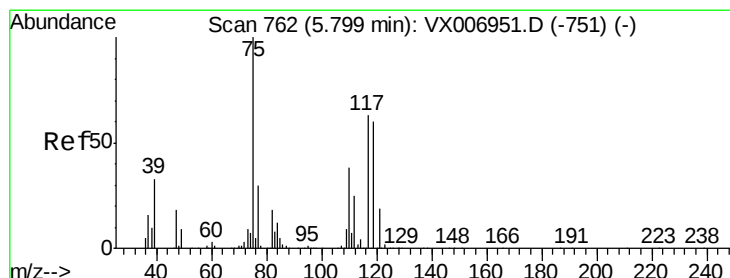
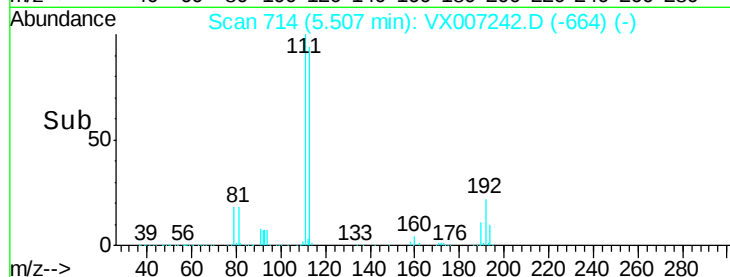
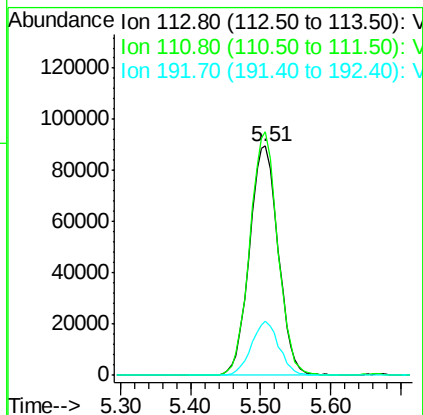
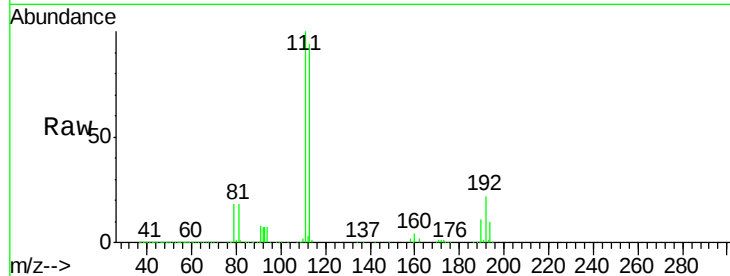
Delta R.T. 0.01 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.6	122.4
192	22.6	16.7	25.1



#36

1,1-Dichloropropene

Concen: 4.823 ug/l

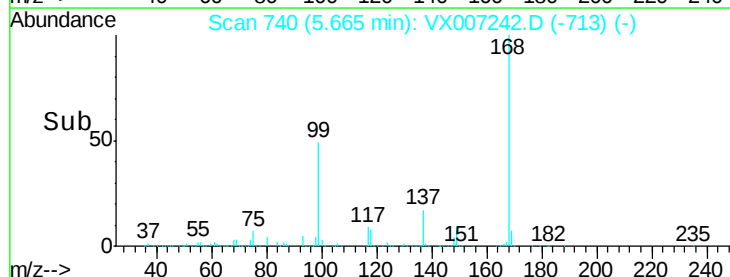
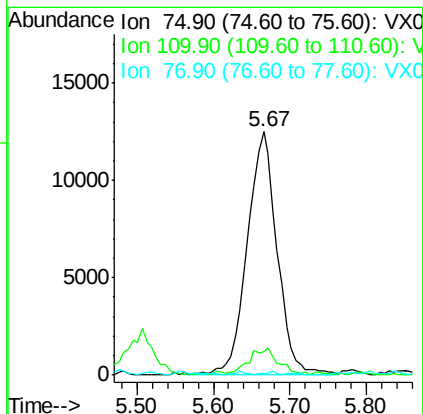
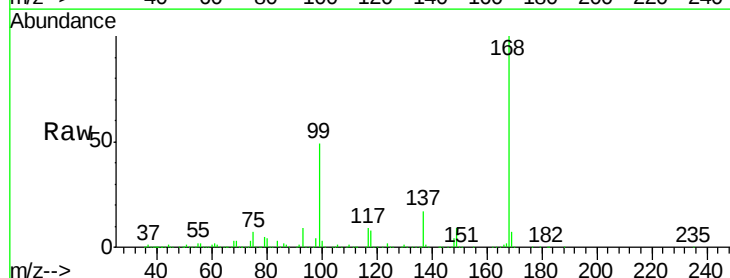
RT: 5.67 min Scan# 740

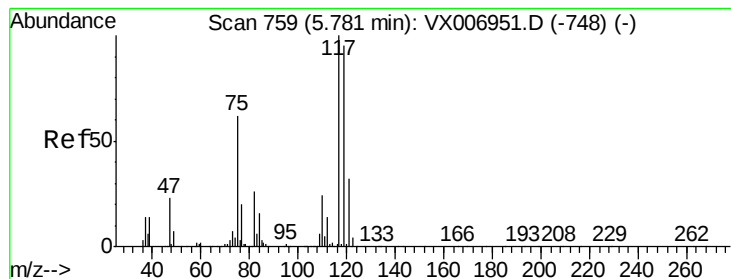
Delta R.T. -0.13 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	20.2	60.5#
77	0.5	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.700 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Instrument :

MSVOA_X

ClientSampled :

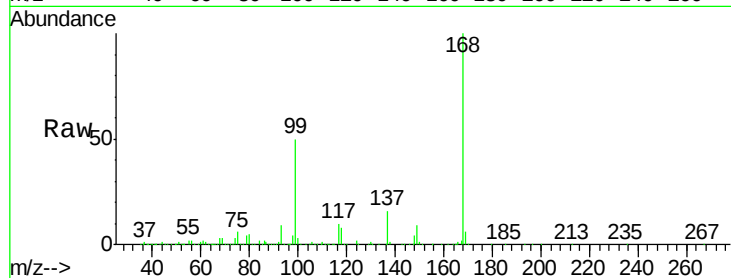
Tot Ion:117 Resp: 47689

Ion Ratio Lower Upper

117 100

119 4.5 79.4 119.2#

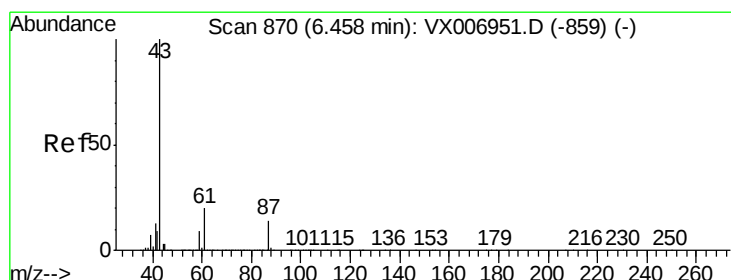
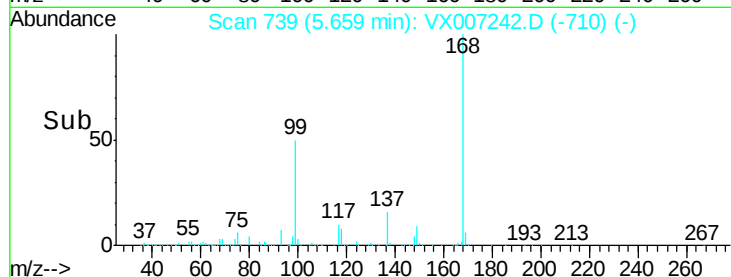
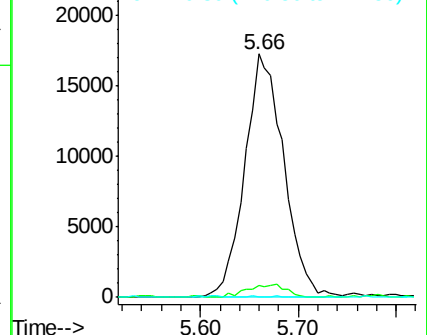
121 0.0 24.0 36.0#



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: 2.420 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

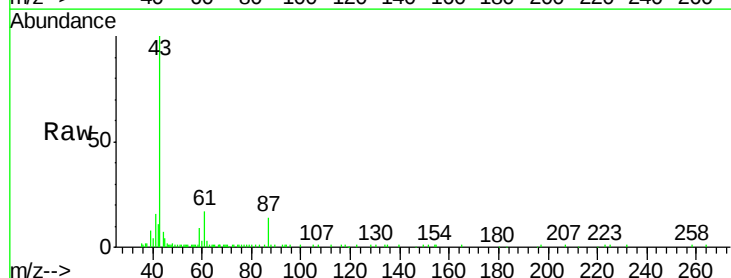
Tgt Ion: 43 Resp: 28945

Ion Ratio Lower Upper

43 100

61 22.7 16.8 25.2

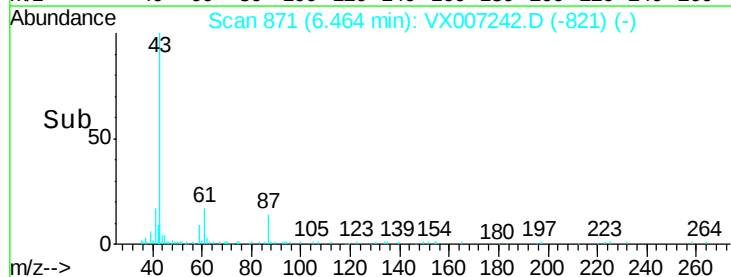
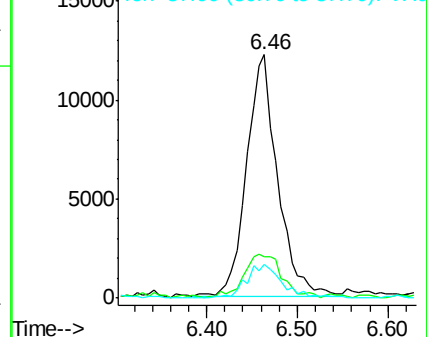
87 15.7 12.4 18.6

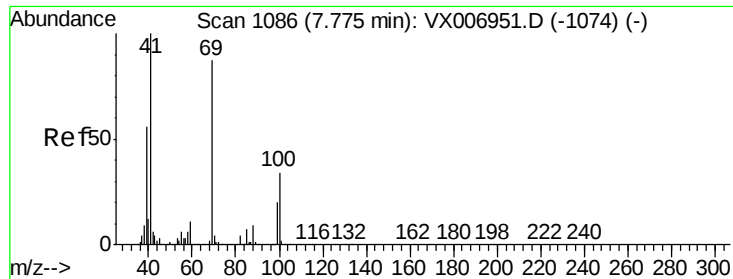


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrvlate

Concen: 2.162 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Instrument :
MSVOA_X
ClientSampleId :

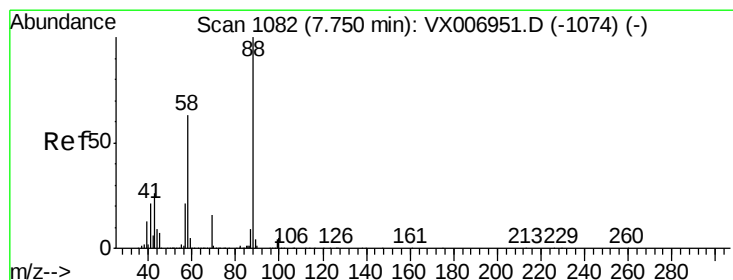
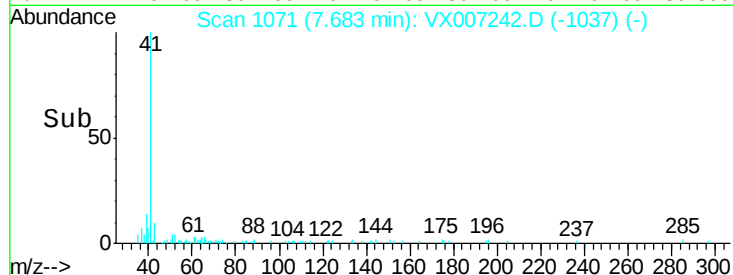
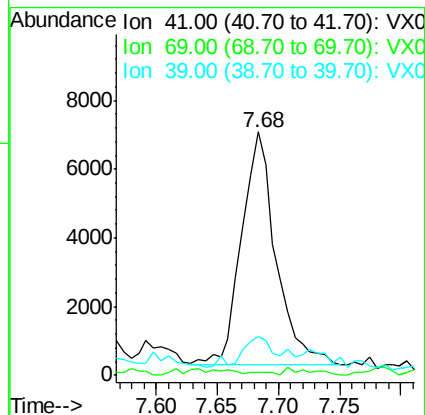
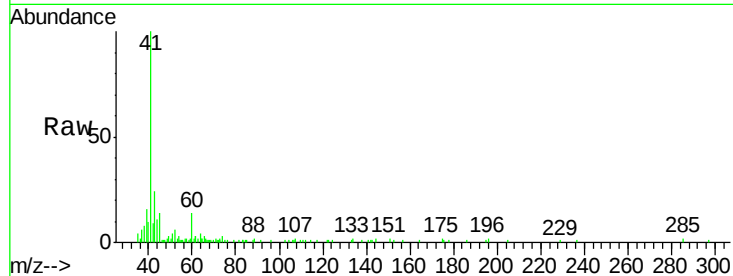
Tot Ion: 41 Resp: 13285

Ion Ratio Lower Upper

41 100

69 0.0 72.4 108.6#

39 0.0 45.8 68.8#



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

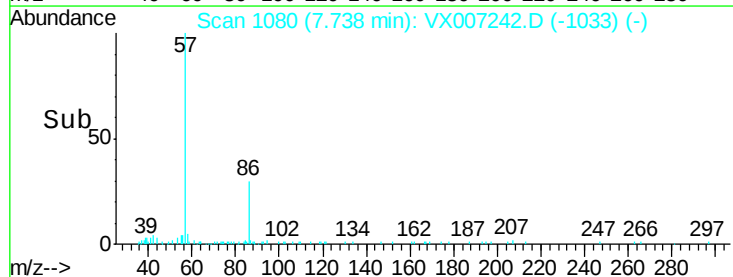
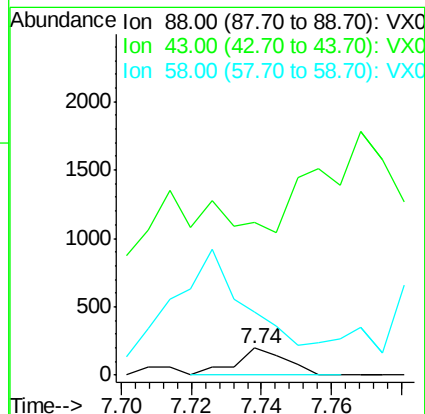
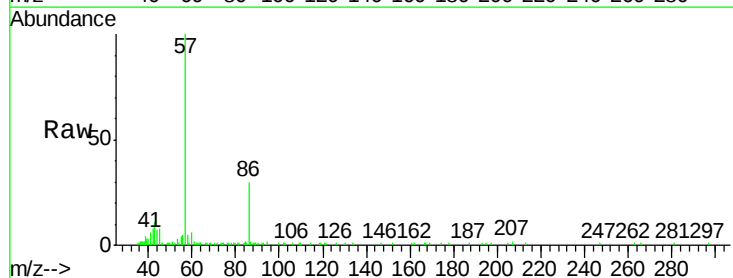
Tgt Ion: 88 Resp: 195

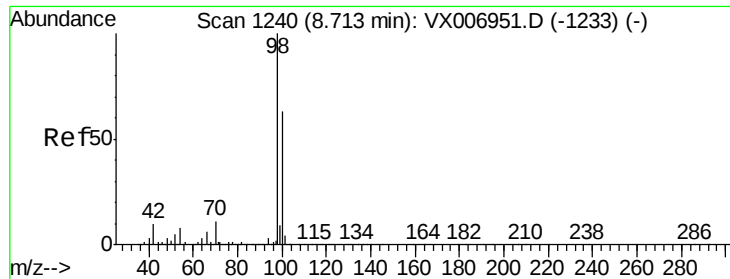
Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 732.8 51.0 76.4#





#50

Toluene-d8

Concen: 52.781 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Instrument :

MSVOA_X

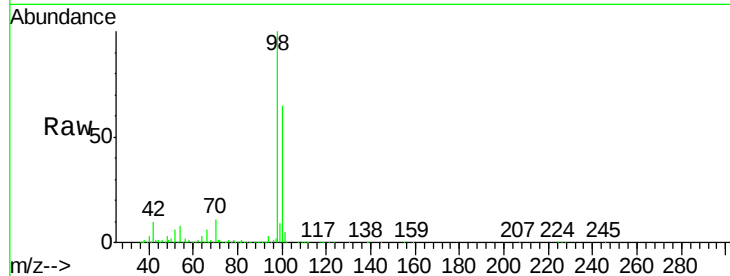
ClientSampleId :

Tot Ion: 98 Resp: 1006661

Ion Ratio Lower Upper

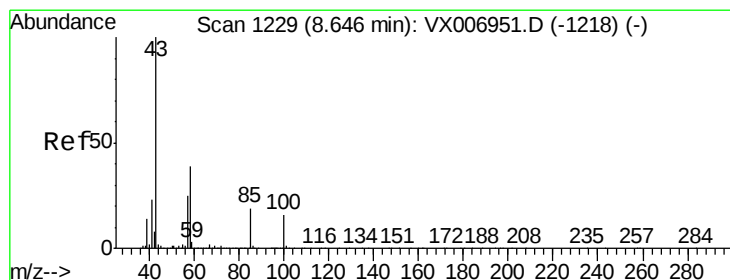
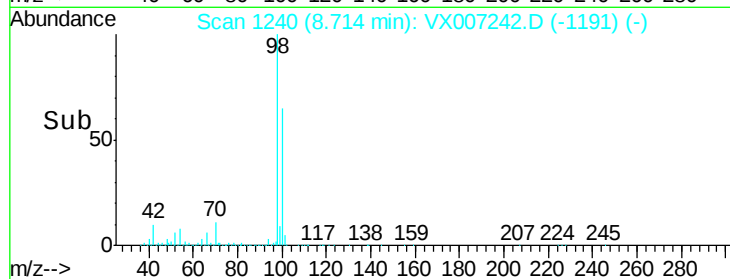
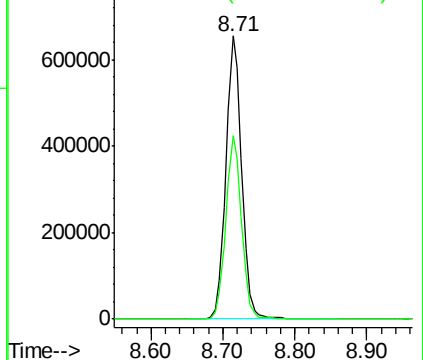
98 100

100 64.2 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 19.792 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007242.D

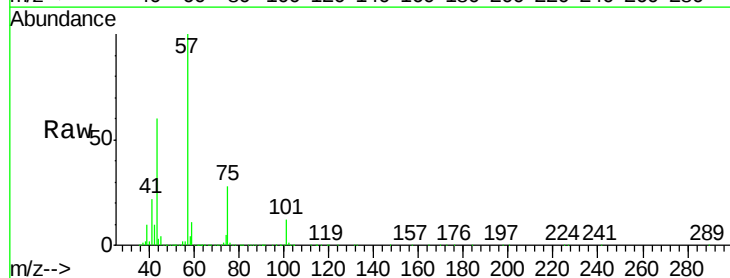
Acq: 25 Jan 2019 21:08

Tgt Ion: 43 Resp: 152164

Ion Ratio Lower Upper

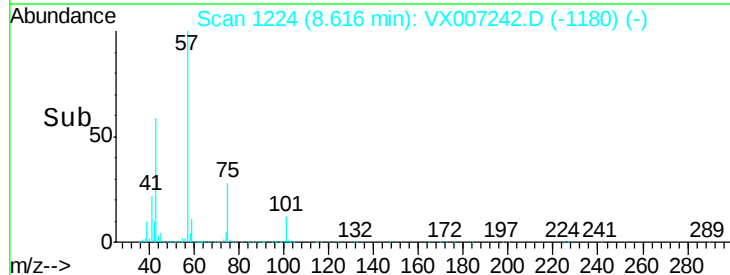
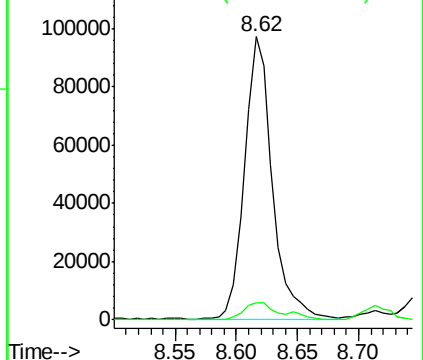
43 100

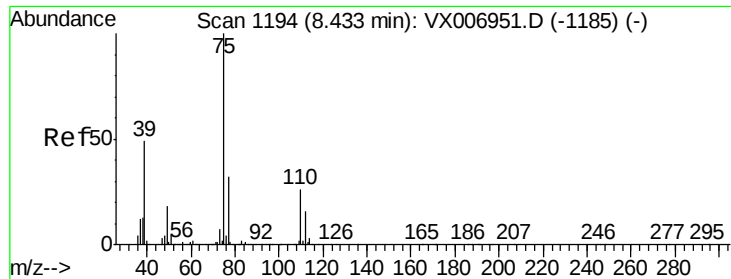
58 8.2 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 9.295 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Instrument :

MSVOA_X

ClientSampleId :

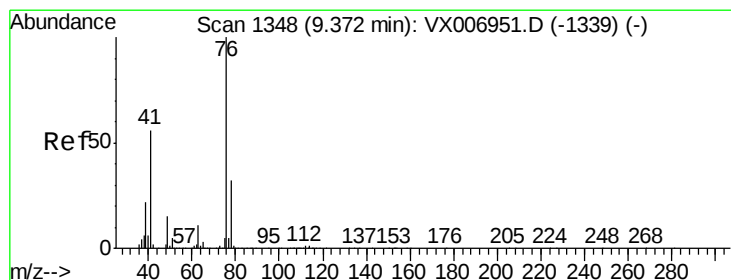
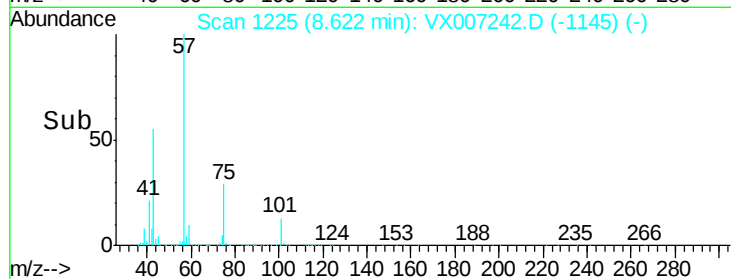
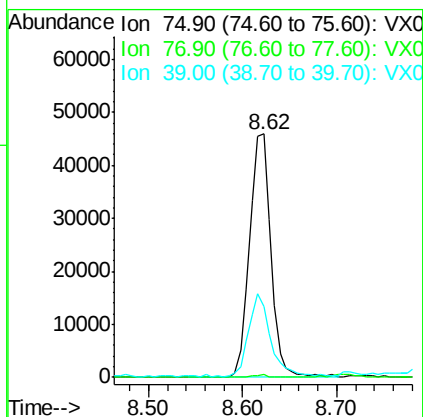
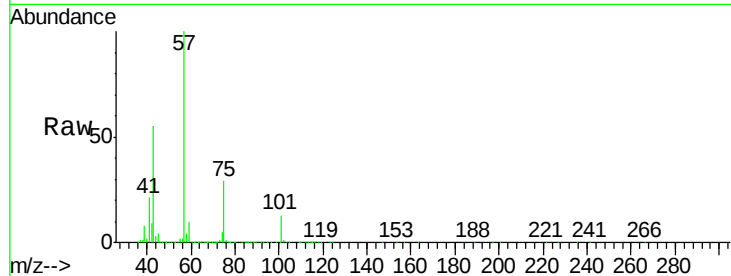
Tot Ion: 75 Resp: 73892

Ion Ratio Lower Upper

75 100

77 0.8 26.2 39.2#

39 28.1 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 2.076 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007242.D

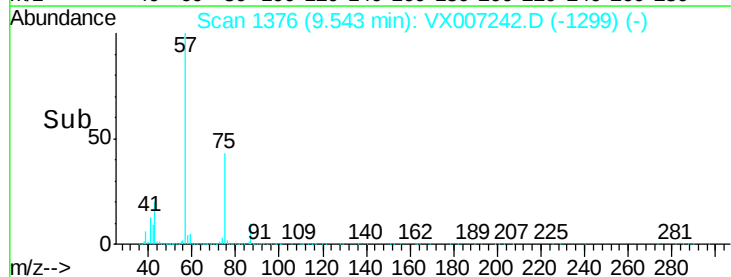
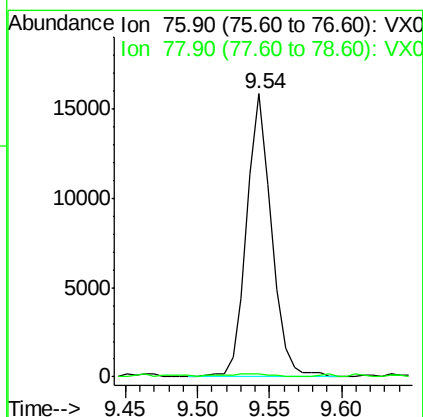
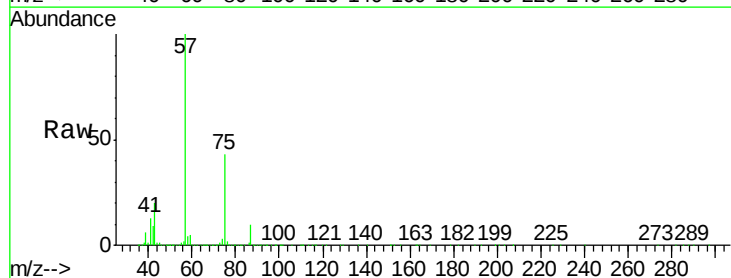
Acq: 25 Jan 2019 21:08

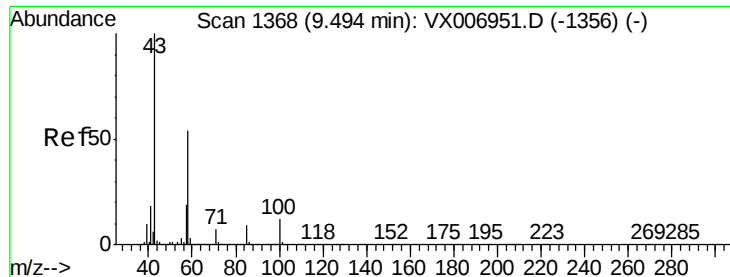
Tgt Ion: 76 Resp: 18883

Ion Ratio Lower Upper

76 100

78 1.6 26.0 39.0#

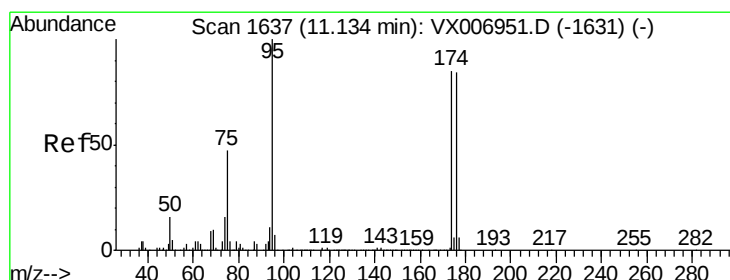
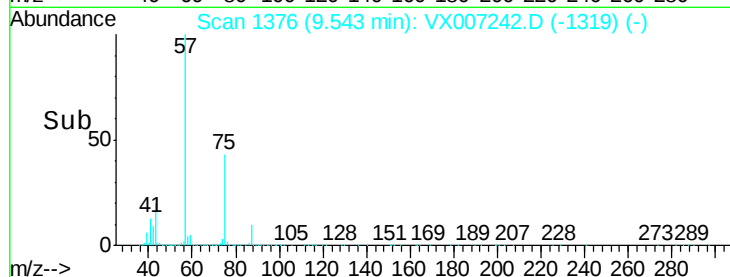
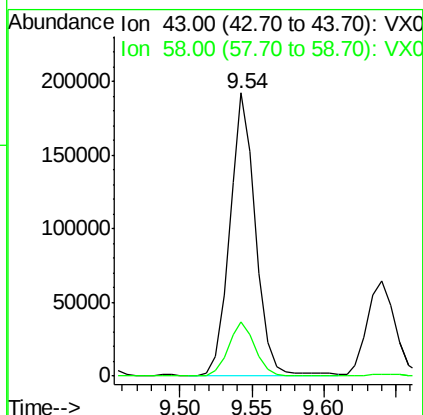
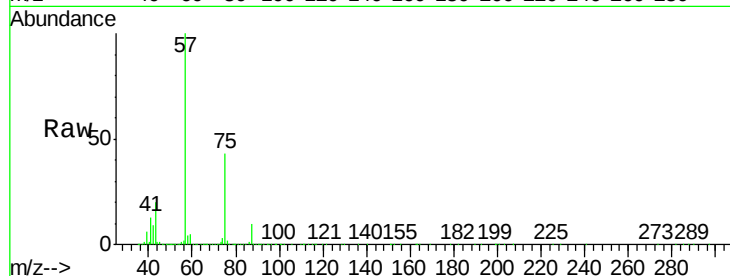




#59
2-Hexanone
Concen: 40.795 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007242.D
Acq: 25 Jan 2019 21:08

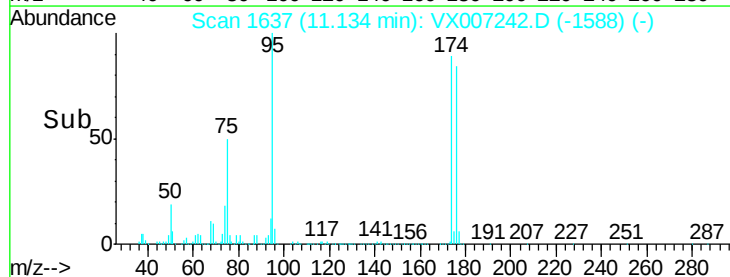
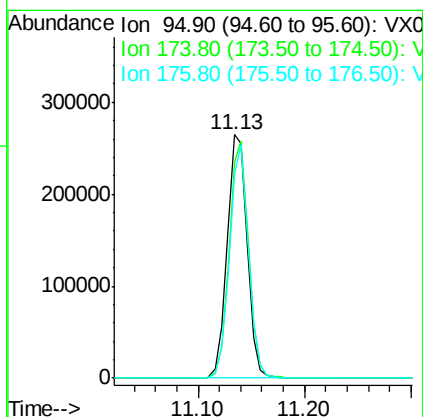
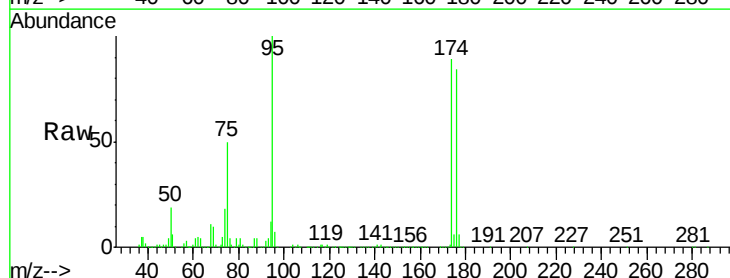
Instrument :
MSVOA_X
ClientSampleId :

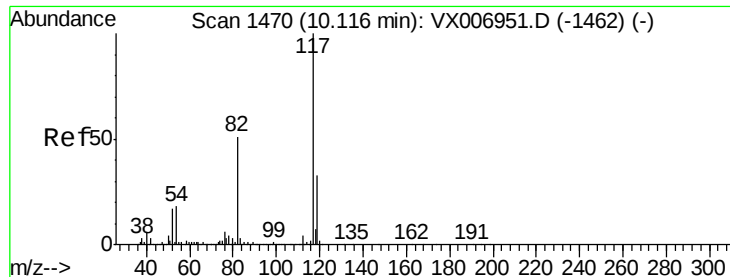
Tot Ion: 43 Resp: 239009
Ion Ratio Lower Upper
43 100
58 19.7 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 52.614 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007242.D
Acq: 25 Jan 2019 21:08

Tgt Ion: 95 Resp: 349836
Ion Ratio Lower Upper
95 100
174 94.4 0.0 182.2
176 90.8 0.0 178.8

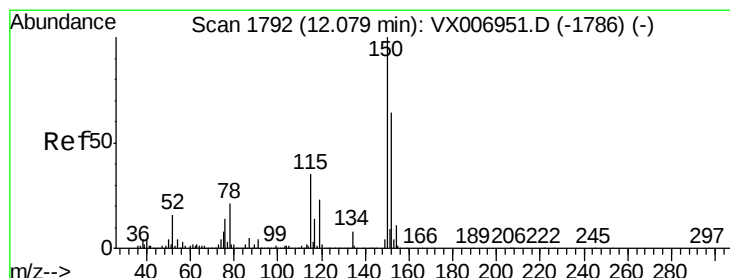
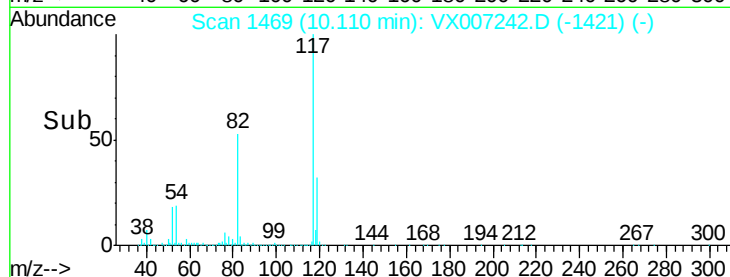
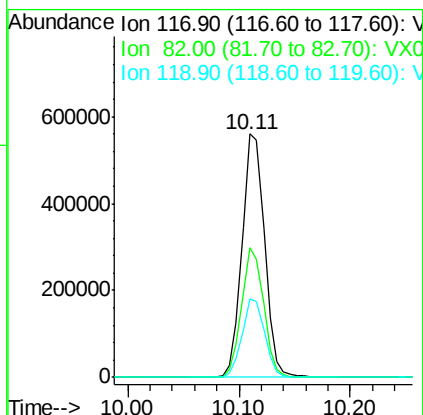
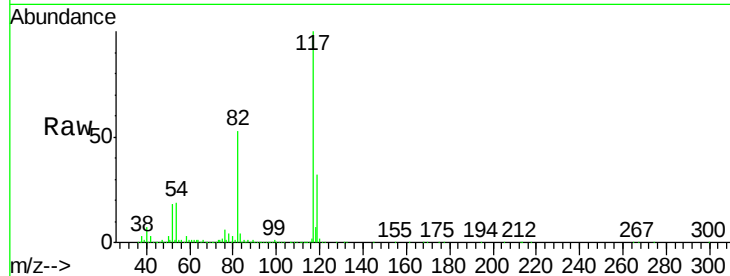




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007242.D
Acq: 25 Jan 2019 21:08

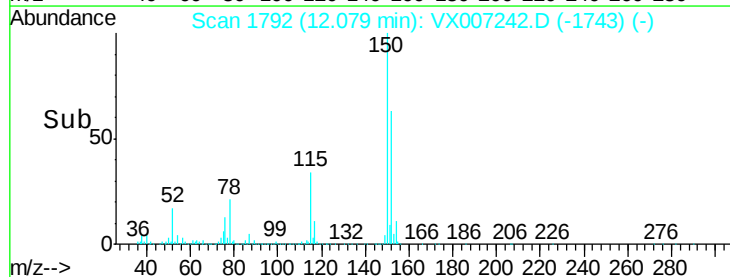
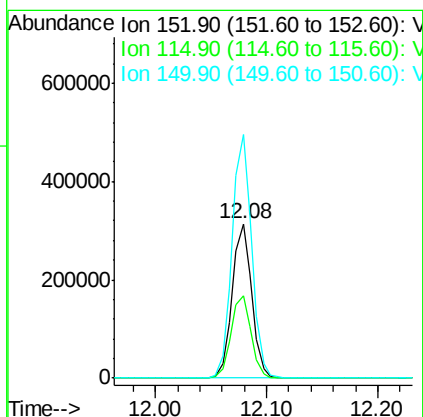
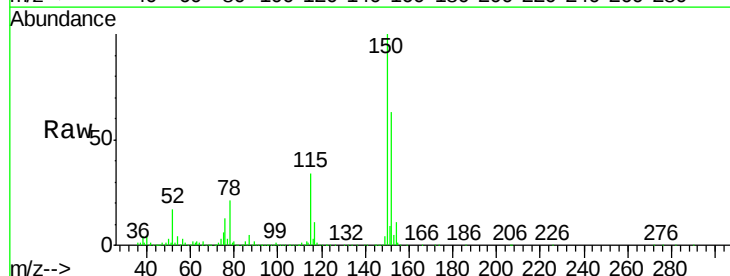
Instrument :
MSVOA_X
ClientSampleId :

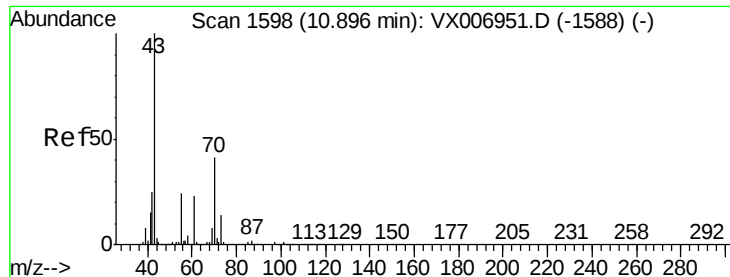
Tot Ion:117 Resp: 788780
Ion Ratio Lower Upper
117 100
82 53.0 41.0 61.6
119 32.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007242.D
Acq: 25 Jan 2019 21:08

Tgt Ion:152 Resp: 379850
Ion Ratio Lower Upper
152 100
115 54.8 39.1 117.2
150 158.3 0.0 344.8





#74

N-amvl acetate

Concen: 2.320 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 25022

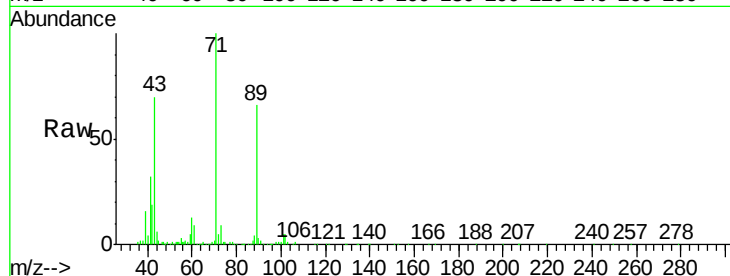
Ion Ratio Lower Upper

43 100

70 3.3 35.8 53.8#

55 4.8 19.4 29.0#

61 12.8 20.1 30.1#

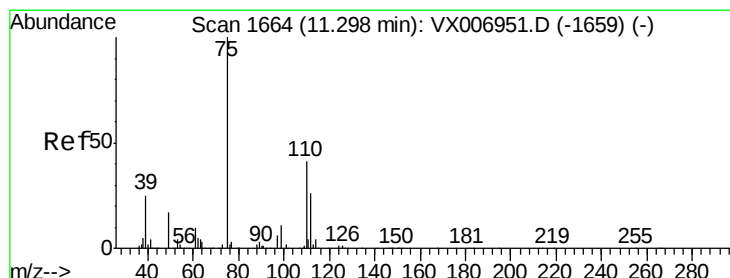
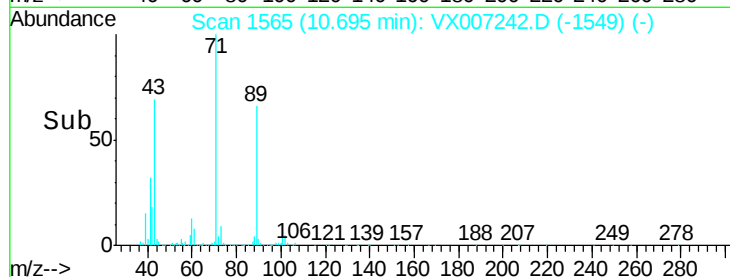
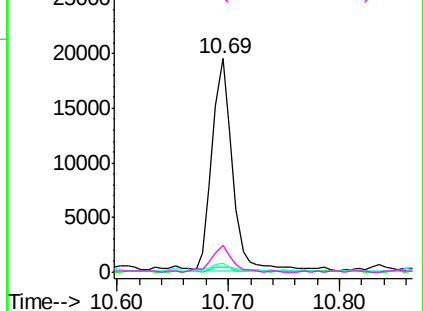


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.071 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007242.D

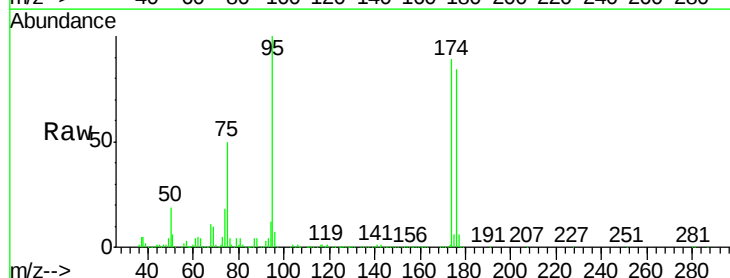
Acq: 25 Jan 2019 21:08

Tgt Ion: 75 Resp: 169893

Ion Ratio Lower Upper

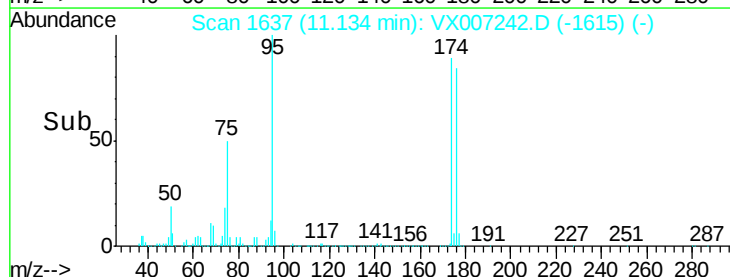
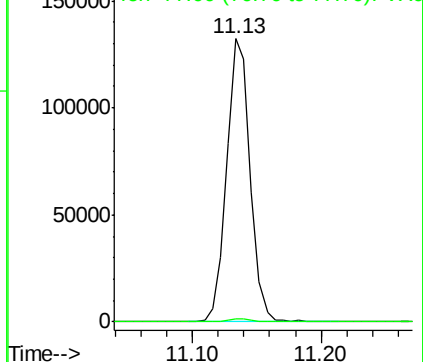
75 100

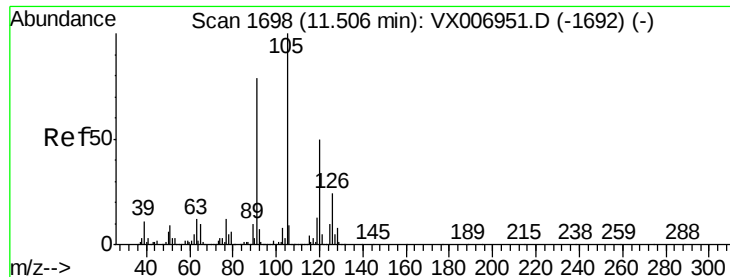
77 1.2 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.470 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Instrument :

MSVOA_X

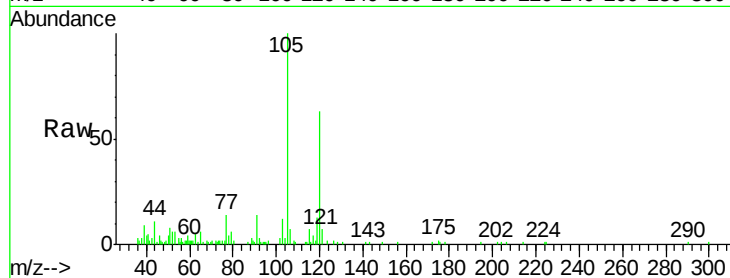
ClientSampleId :

Tot Ion:105 Resp: 10516

Ion Ratio Lower Upper

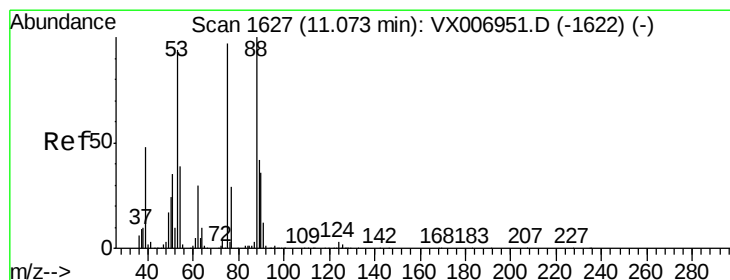
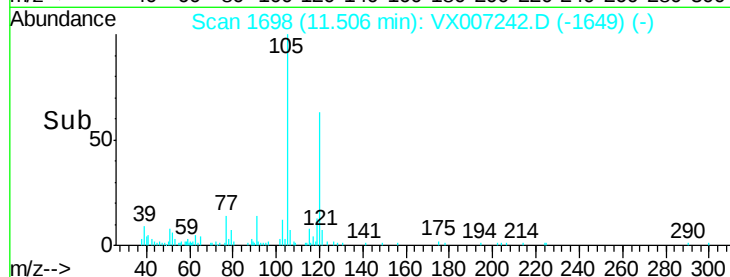
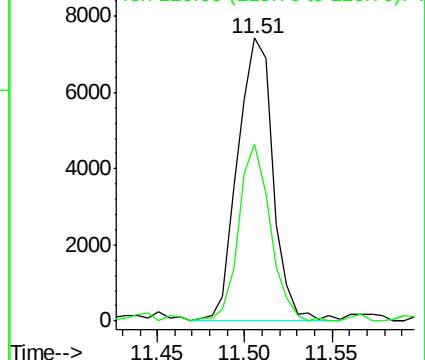
105 100

120 55.7 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 65.351 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

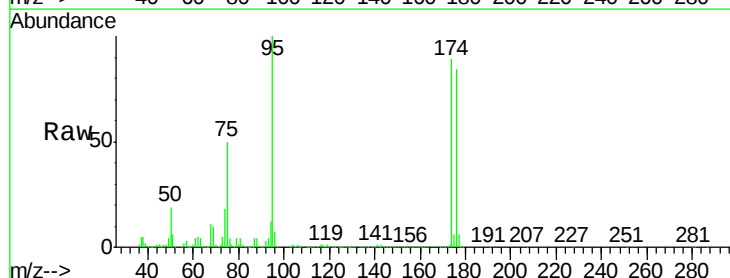
Tgt Ion: 75 Resp: 169893

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

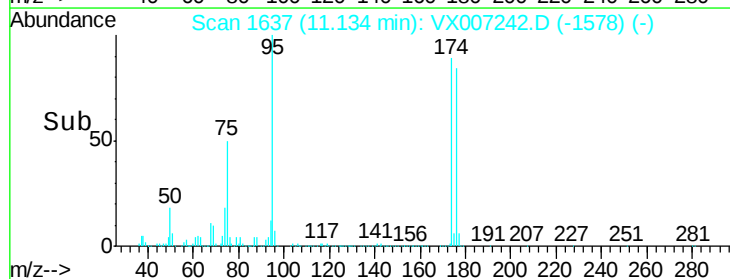
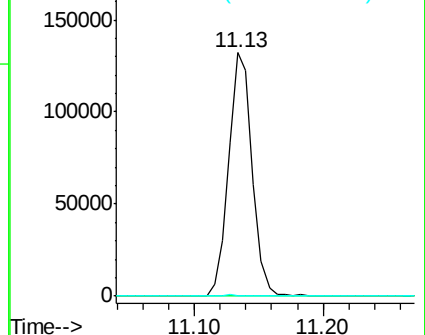
89 0.2 38.0 57.0#

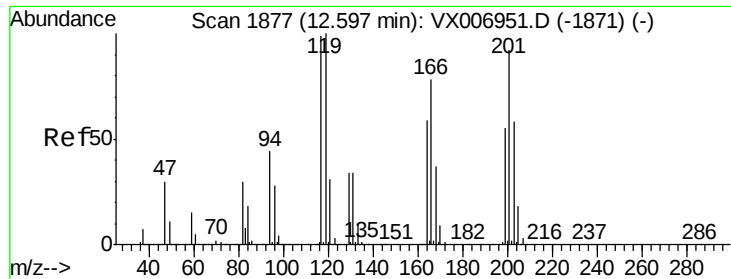


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.914 ug/l

RT: 12.85 min Scan# 1919

Delta R.T. 0.26 min

Lab File: VX007242.D

Acq: 25 Jan 2019 21:08

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 25

Ion Ratio Lower Upper

117 100

201 100.0 42.9 128.7

