

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012619\
 Data File : VX007243.D
 Acq On : 25 Jan 2019 21:35
 Operator : JC/SP
 Sample : PB116609ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 28 00:18:41 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	531970	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	826849	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	802152	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	385050	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	284441	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
35) Dibromofluoromethane	5.51	113	255718	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
50) Toluene-d8	8.71	98	997290	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
62) 4-Bromofluorobenzene	11.13	95	355741	52.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.30%	

Target Compounds

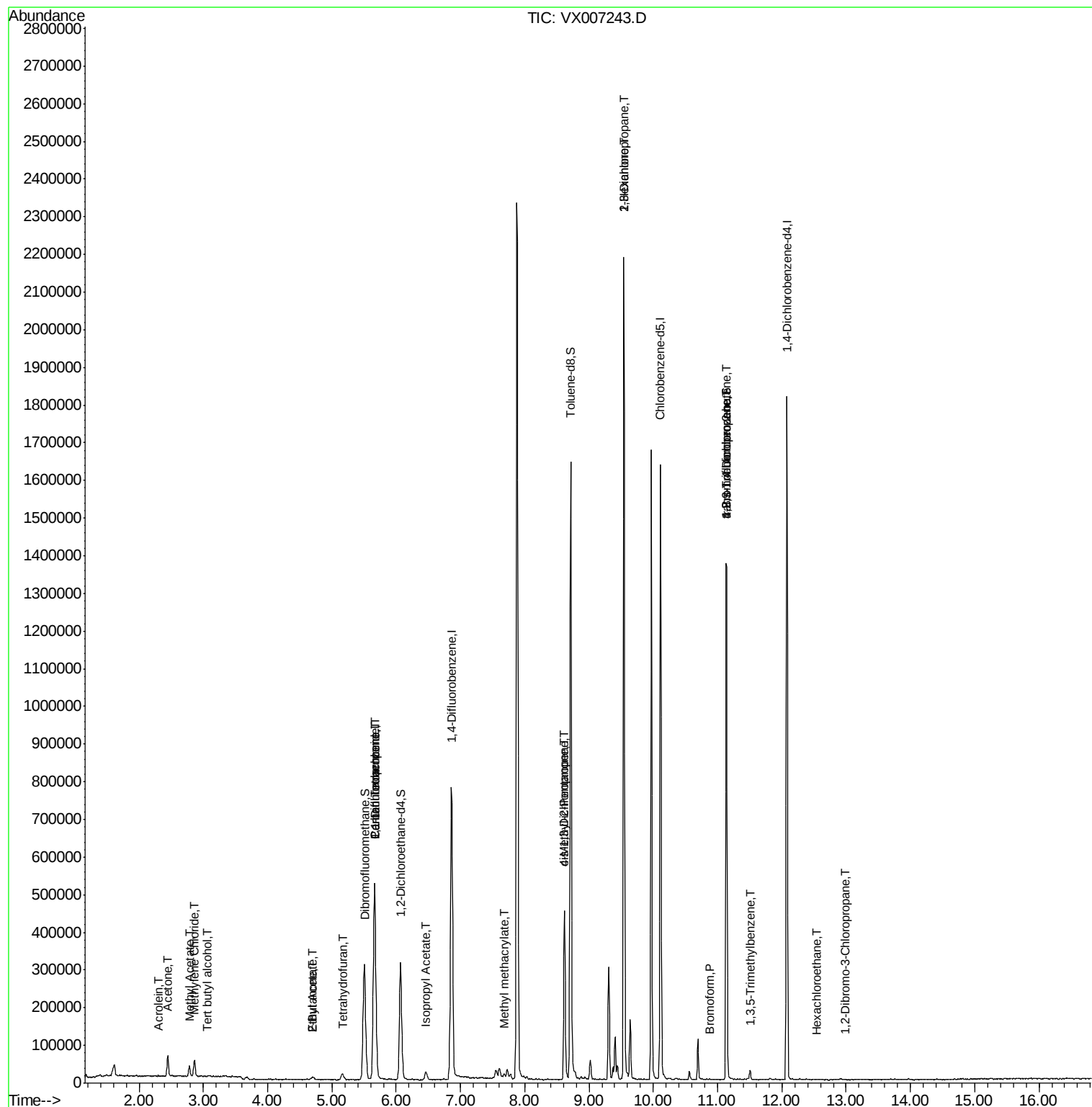
					Qvalue	
11) Tert butyl alcohol	3.06	59	2328	1.775	ug/l	99
13) Acrolein	2.29	56	248	3.517	ug/l #	13
16) Acetone	2.45	43	58707	21.360	ug/l	95
18) Methyl Acetate	2.78	43	35043	4.403	ug/l	100
20) Methylene Chloride	2.86	84	19800	3.259	ug/l	93
25) 2-Butanone	4.70	43	14755	3.752	ug/l #	74
29) Tetrahydrofuran	5.16	42	14524	5.683	ug/l	96
36) 1,1-Dichloropropene	5.67	75	33390	4.645	ug/l #	50
37) Ethyl Acetate	4.70	43	14755	1.914	ug/l #	69
38) Carbon Tetrachloride	5.67	117	49789	6.884	ug/l #	14
43) Isopropyl Acetate	6.46	43	27760	2.284	ug/l	99
48) Methyl methacrylate	7.68	41	13908	2.228	ug/l #	12
49) 1,4-Dioxane	7.76	88	35	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	150476	19.261	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	72680	8.997	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	18419	1.992	ug/l #	44
59) 2-Hexanone	9.54	43	236298	39.689	ug/l #	51
71) Bromoform	10.87	173	122	4.749	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	172802	22.146	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	10337	0.456	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.13	75	172802	65.560	ug/l #	10
90) Hexachloroethane	12.54	117	30	2.916	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.00	75	401	0.235	ug/l #	1

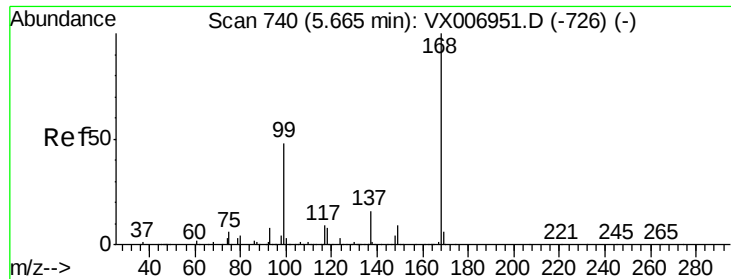
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX012619\
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Instrument :
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ClientSampleId :

Quant Time: Jan 28 00:18:41 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
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: VX007243.D

Acq: 25 Jan 2019 21:35

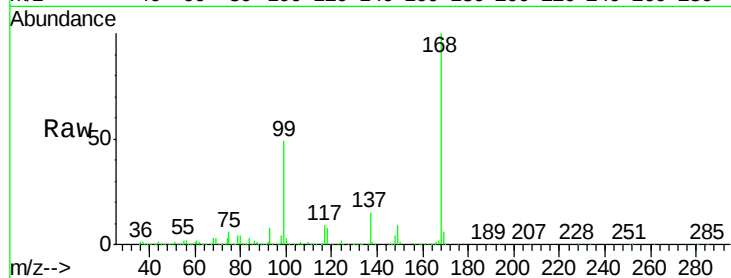
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 531970

Ion Ratio Lower Upper

168 100

99 48.6 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

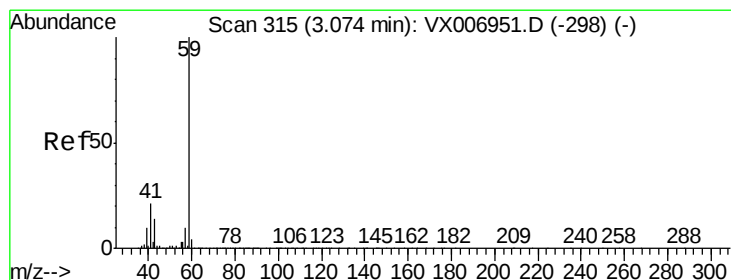
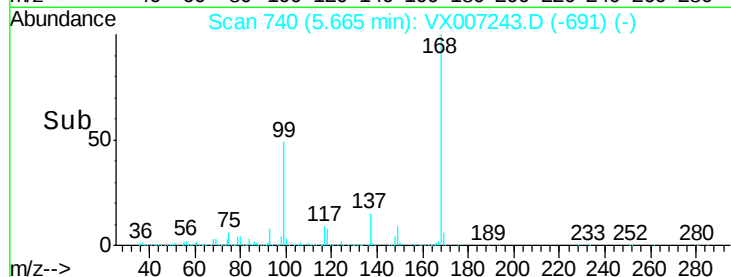
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.775 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX007243.D

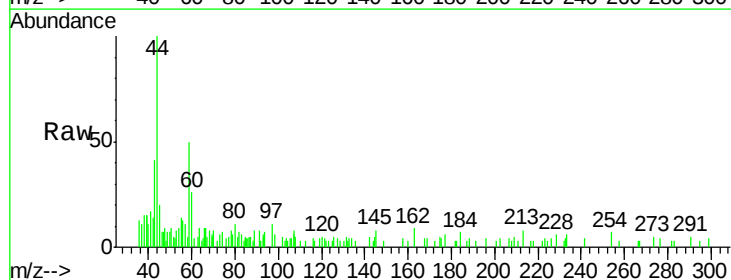
Acq: 25 Jan 2019 21:35

Tgt Ion: 59 Resp: 2328

Ion Ratio Lower Upper

59 100

57 11.0 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.06

1200

1000

800

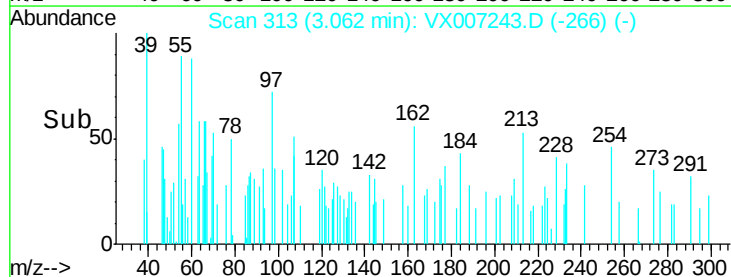
600

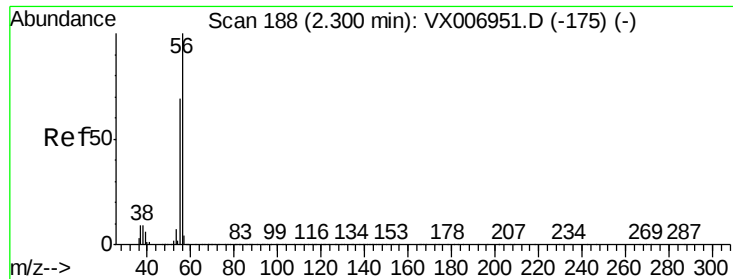
400

200

0

Time--> 3.00 3.05 3.10





#13

Acrolein

Concen: 3.517 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

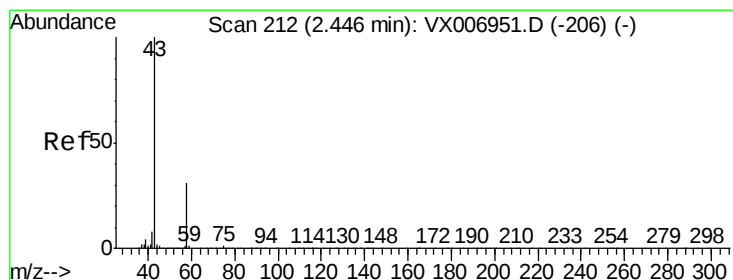
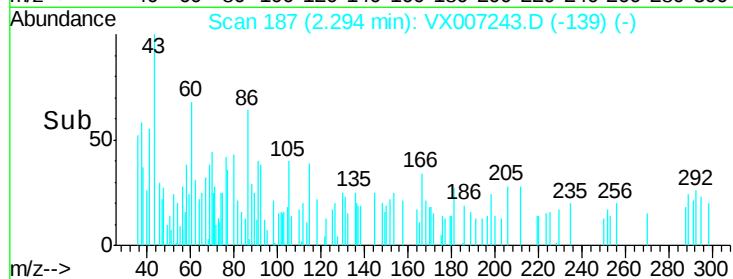
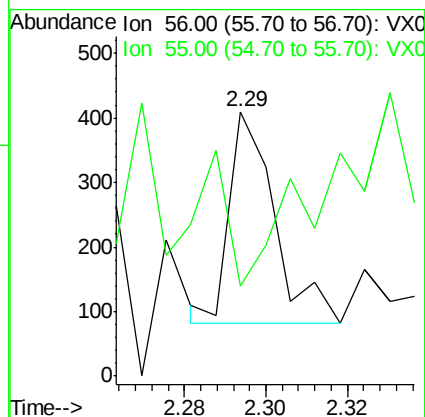
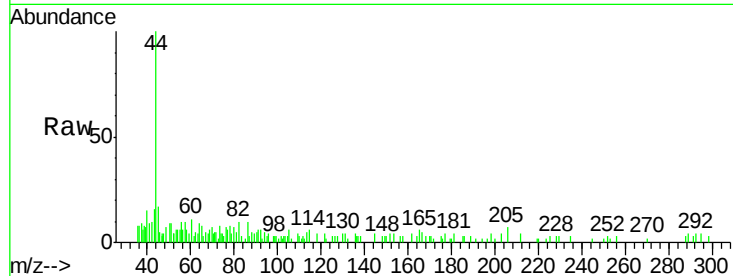
ClientSampled :

Tot Ion: 56 Resp: 248

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#16

Acetone

Concen: 21.360 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007243.D

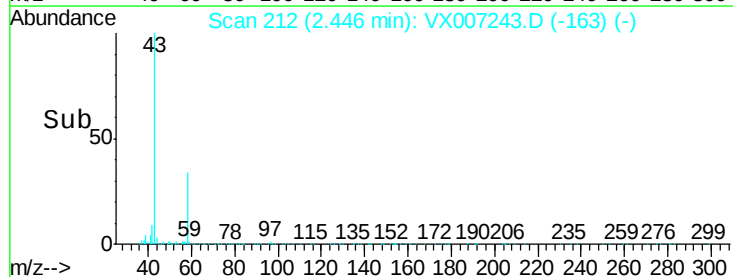
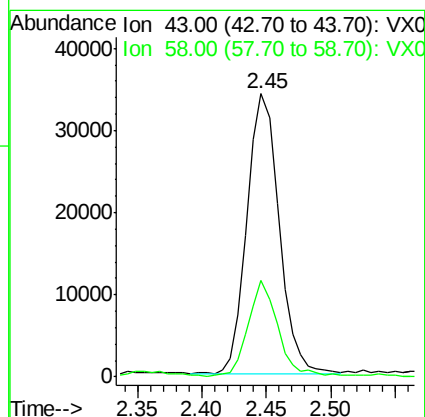
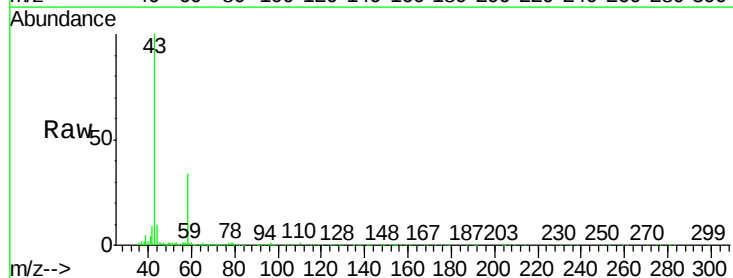
Acq: 25 Jan 2019 21:35

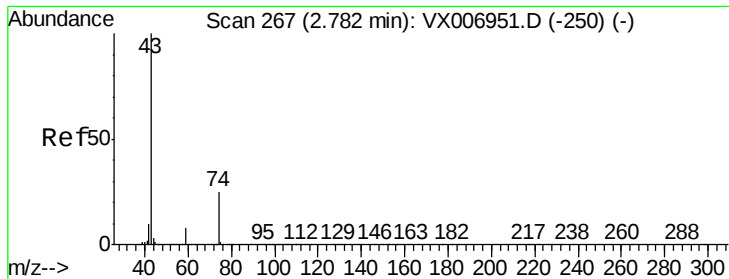
Tgt Ion: 43 Resp: 58707

Ion Ratio Lower Upper

43 100

58 33.8 25.0 37.6

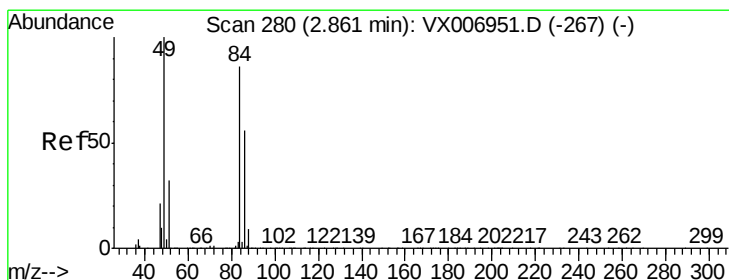
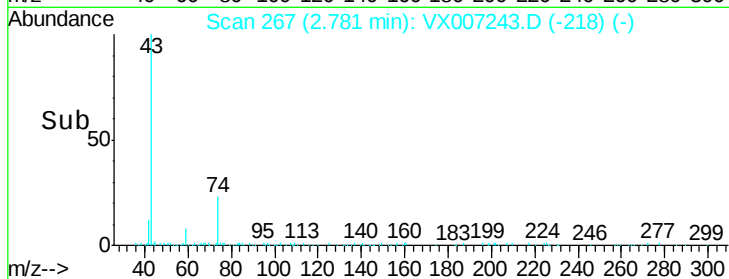
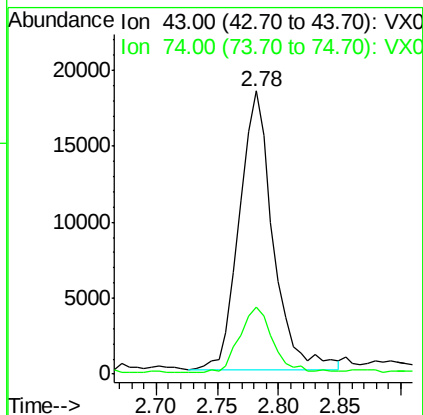
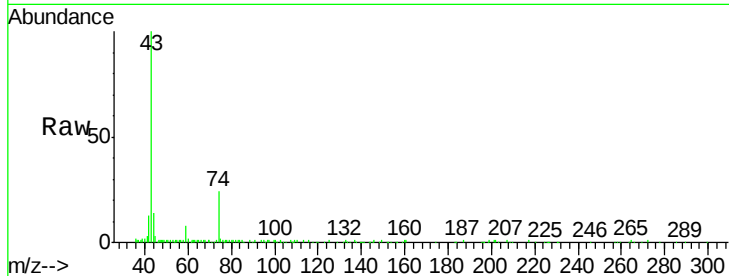




#18
Methyl Acetate
Concen: 4.403 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007243.D
Acq: 25 Jan 2019 21:35

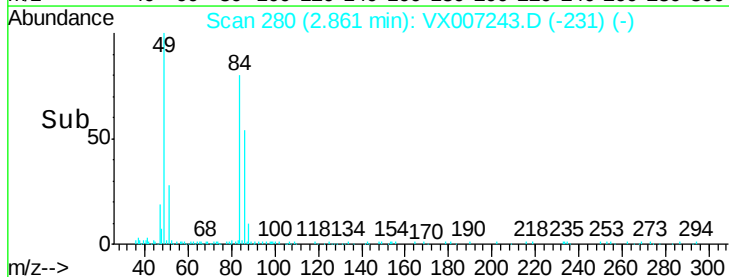
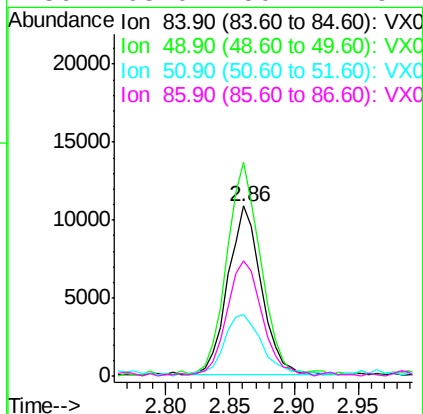
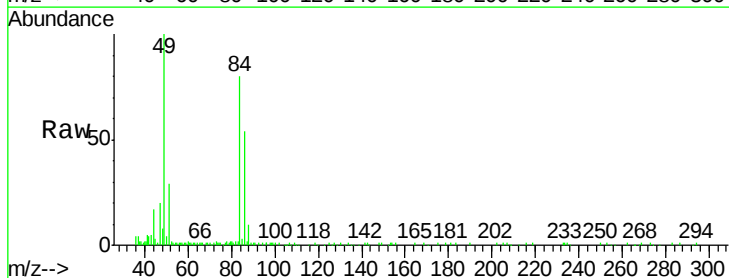
Instrument :
MSVOA_X
ClientSampleId :

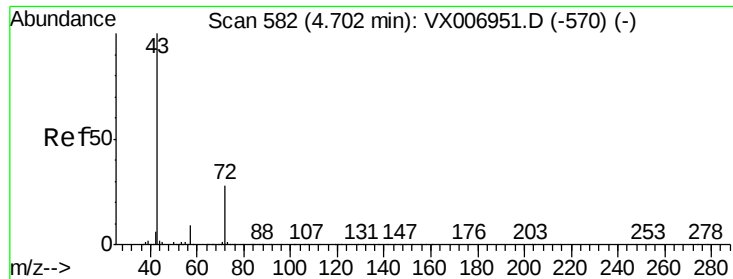
Tot Ion: 43 Resp: 35043
Ion Ratio Lower Upper
43 100
74 23.4 18.6 28.0



#20
Methylene Chloride
Concen: 3.259 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007243.D
Acq: 25 Jan 2019 21:35

Tgt Ion: 84 Resp: 19800
Ion Ratio Lower Upper
84 100
49 125.2 91.8 137.6
51 35.5 28.5 42.7
86 68.0 50.2 75.2





#25

2-Butanone

Concen: 3.752 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

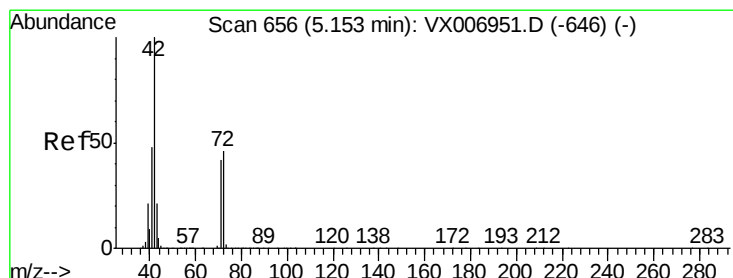
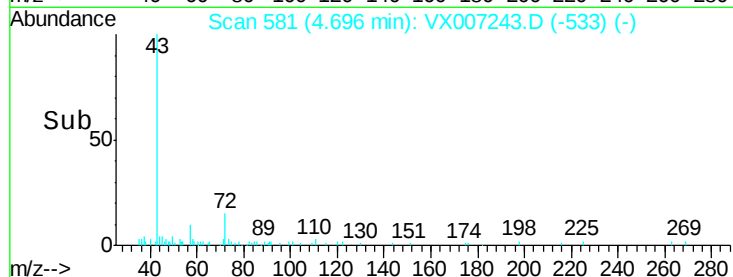
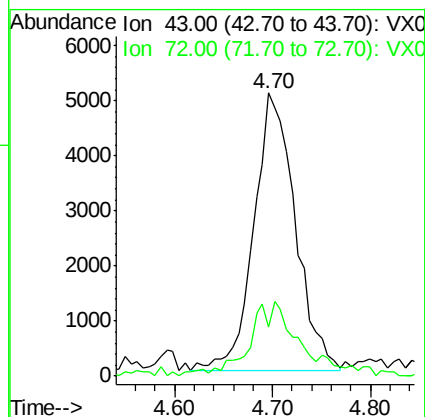
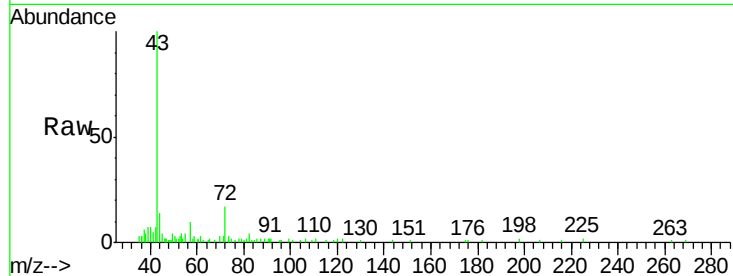
ClientSampleId :

Tot Ion: 43 Resp: 14755

Ion Ratio Lower Upper

43 100

72 14.5 22.4 33.6#



#29

Tetrahydrofuran

Concen: 5.683 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

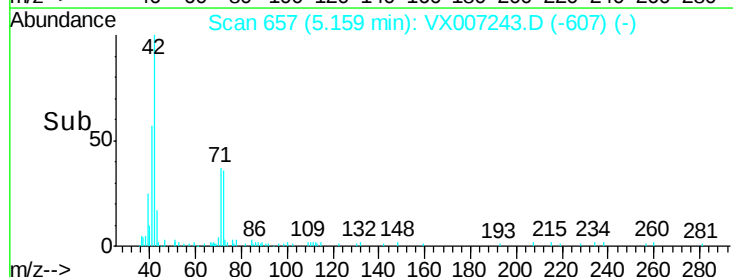
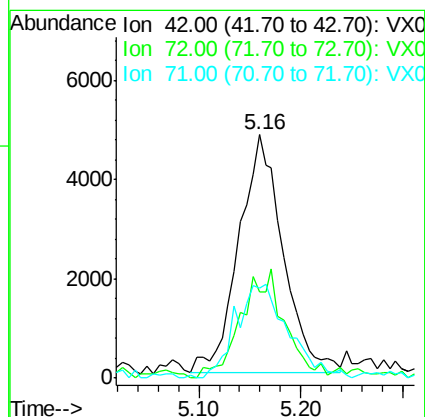
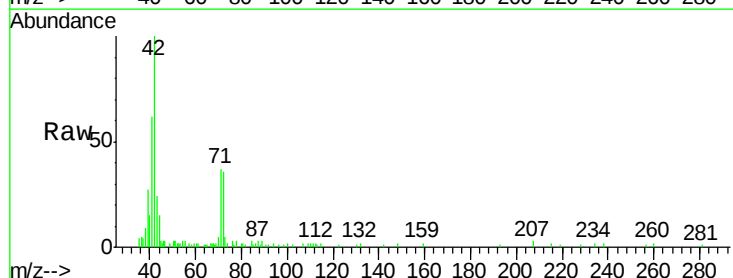
Tgt Ion: 42 Resp: 14524

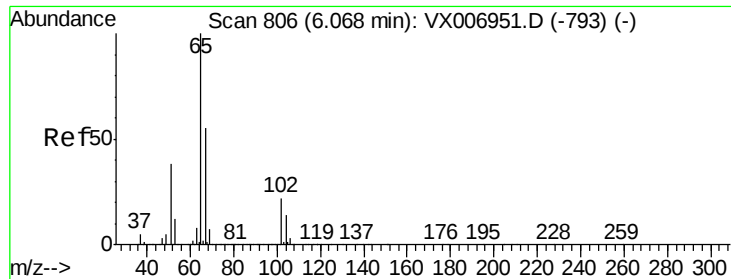
Ion Ratio Lower Upper

42 100

72 45.0 38.9 58.3

71 46.8 36.2 54.4





#33

1,2-Dichloroethane-d4

Concen: 51.163 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

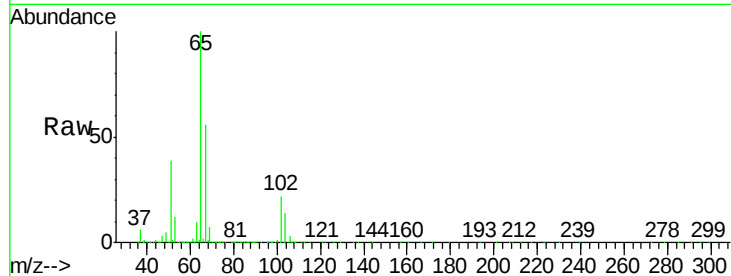
ClientSampleId :

Tot Ion: 65 Resp: 284441

Ion Ratio Lower Upper

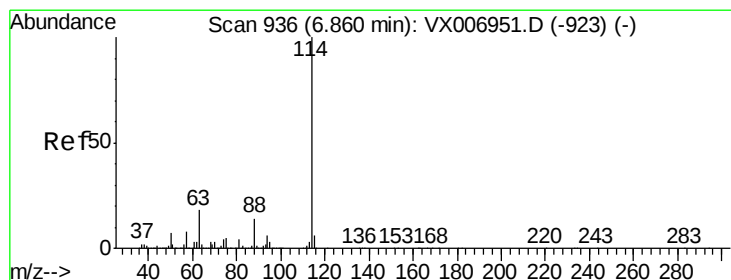
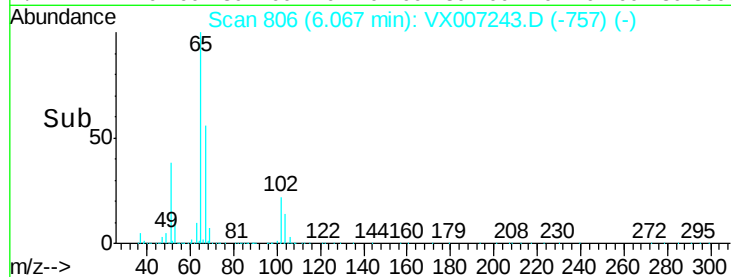
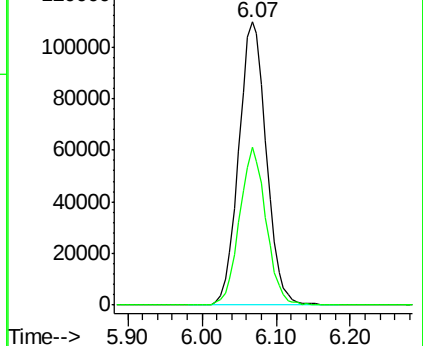
65 100

67 53.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

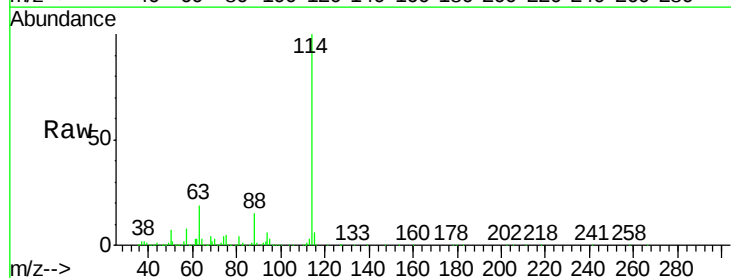
Tgt Ion: 114 Resp: 826849

Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.8

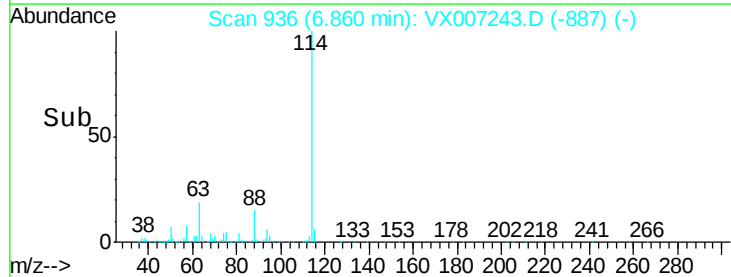
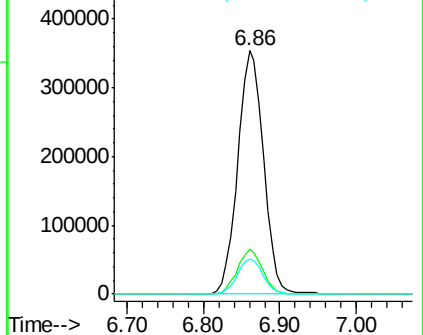
88 14.6 0.0 28.8

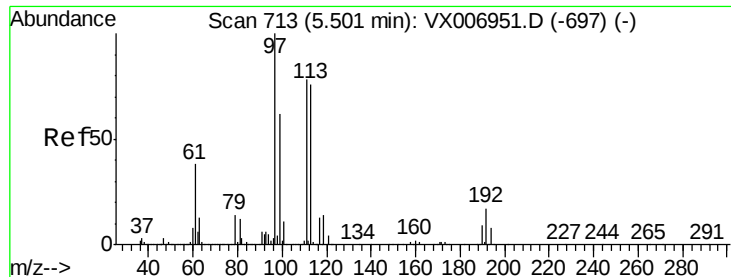


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.293 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :
MSVOA_X
ClientSampleId :

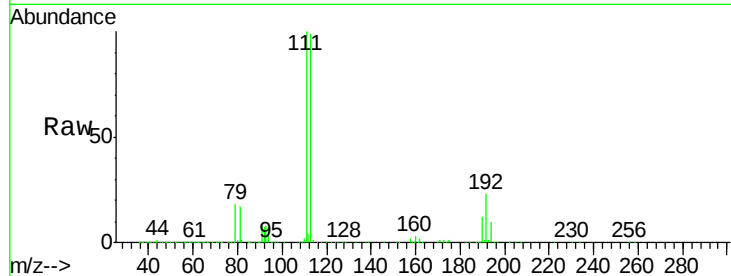
Tot Ion:113 Resp: 255718

Ion Ratio Lower Upper

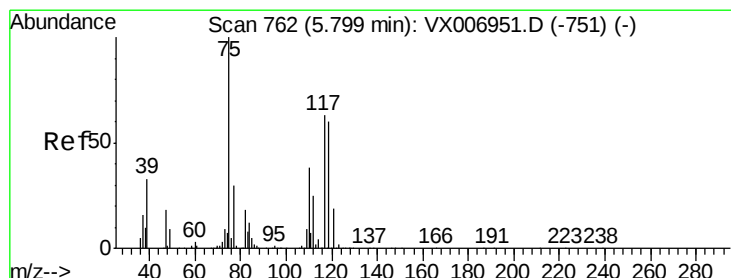
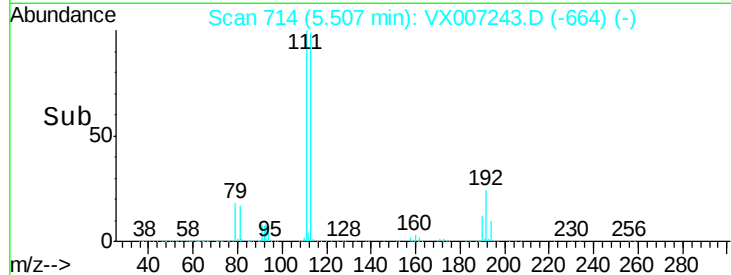
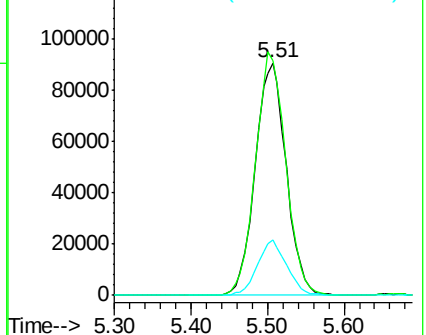
113 100

111 102.6 81.6 122.4

192 22.5 16.7 25.1



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: 4.645 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

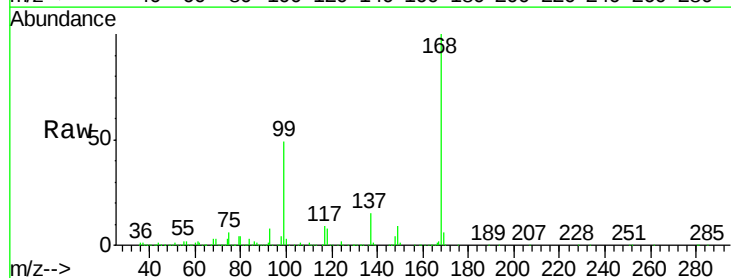
Tgt Ion: 75 Resp: 33390

Ion Ratio Lower Upper

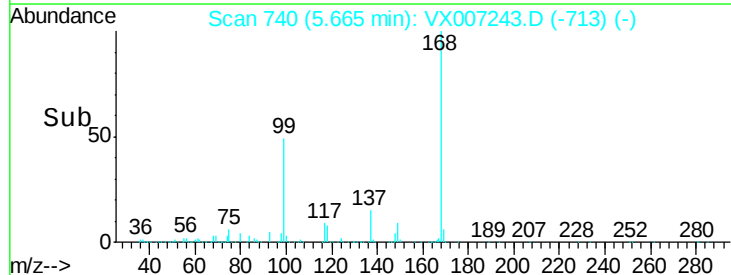
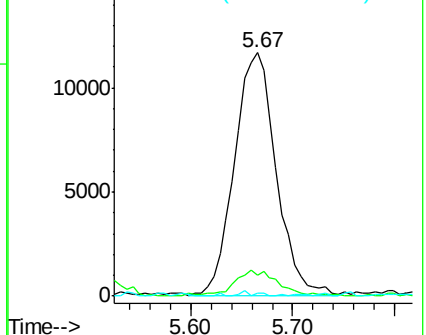
75 100

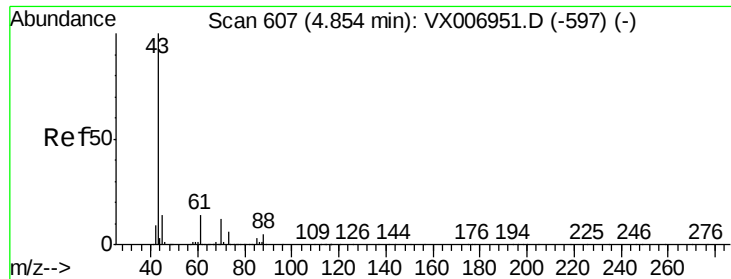
110 11.3 20.2 60.5#

77 0.6 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 1.914 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.16 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

ClientSampleId :

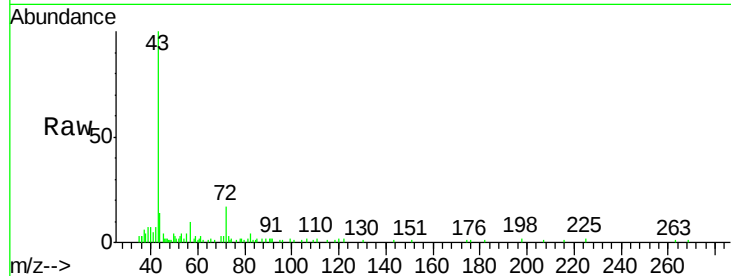
Tot Ion: 43 Resp: 14755

Ion Ratio Lower Upper

43 100

61 1.3 11.9 17.9#

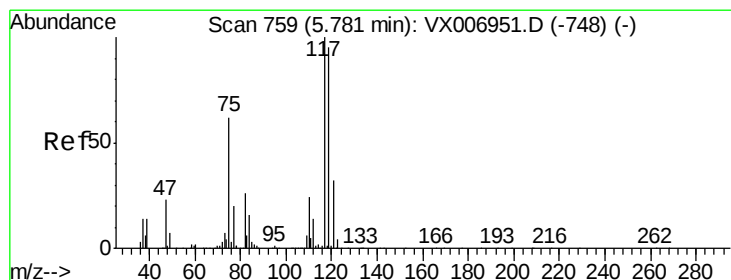
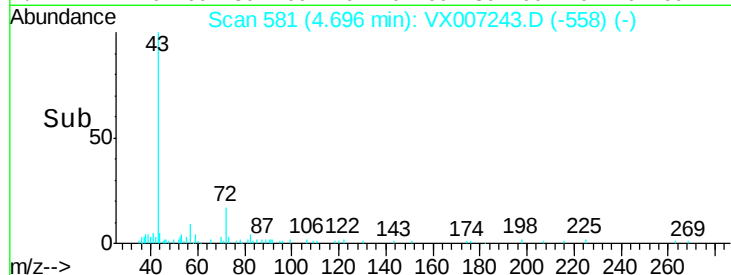
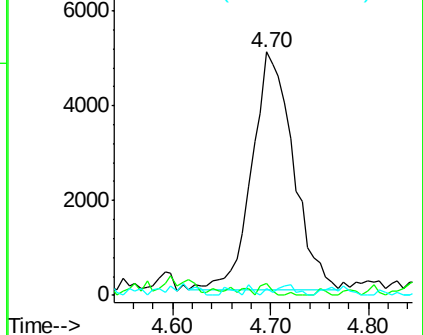
70 0.7 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.884 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

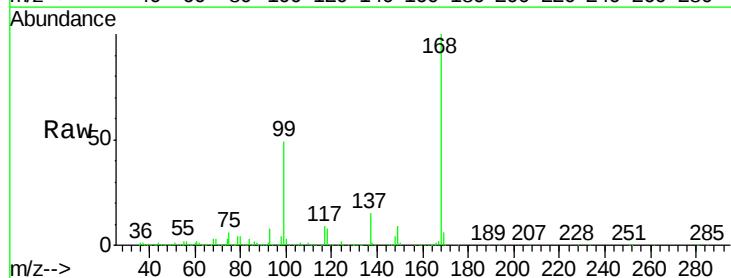
Tgt Ion: 117 Resp: 49789

Ion Ratio Lower Upper

117 100

119 4.0 79.4 119.2#

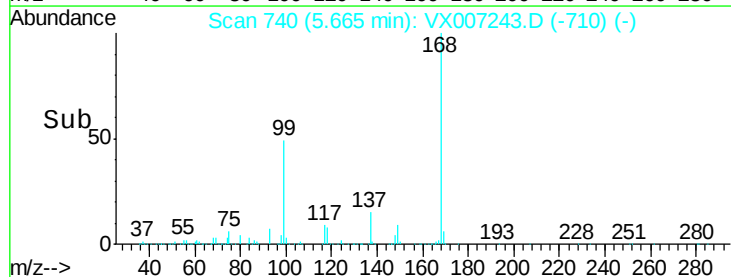
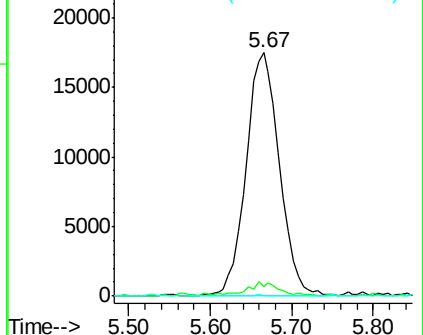
121 0.0 24.0 36.0#

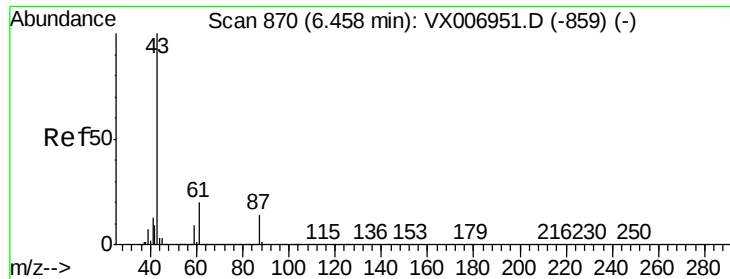


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



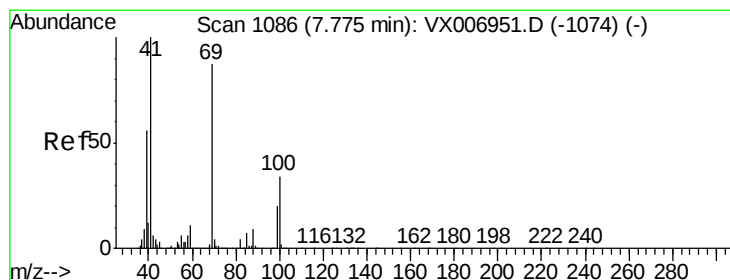
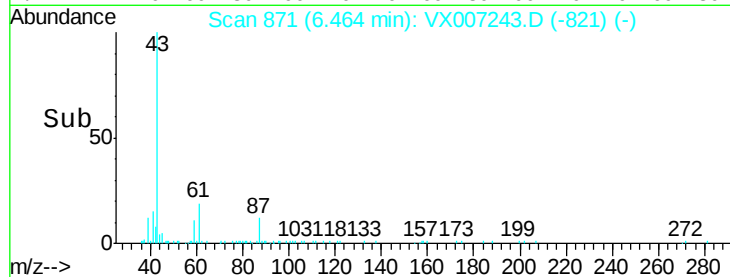
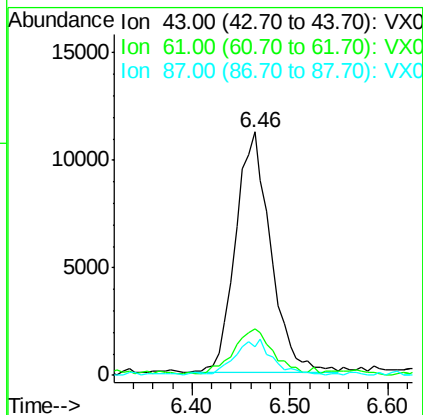
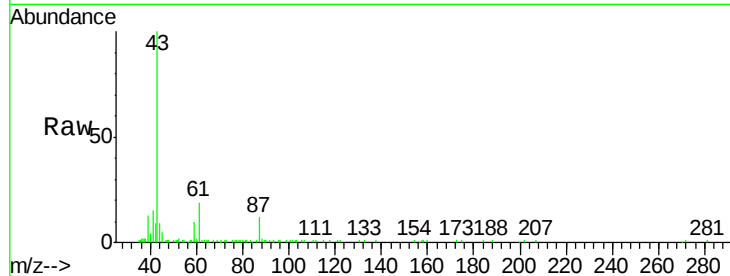


#43

Isopropyl Acetate
 Concen: 2.284 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX007243.D
 Acq: 25 Jan 2019 21:35

Instrument :
 MSVOA_X
 ClientSampled :

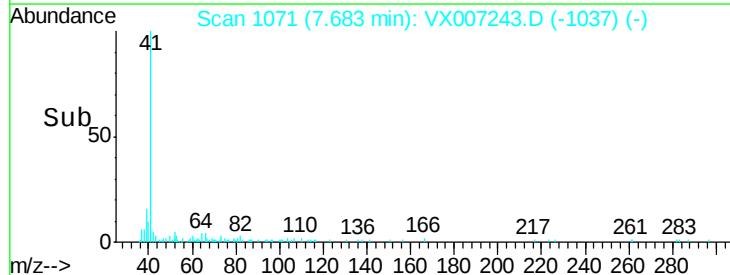
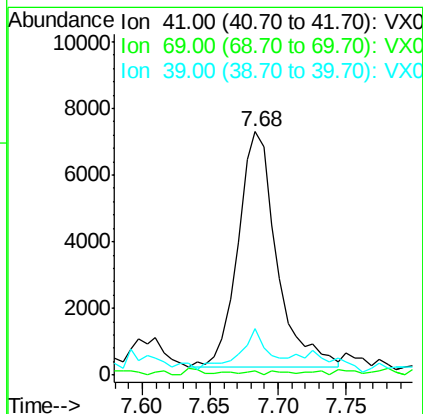
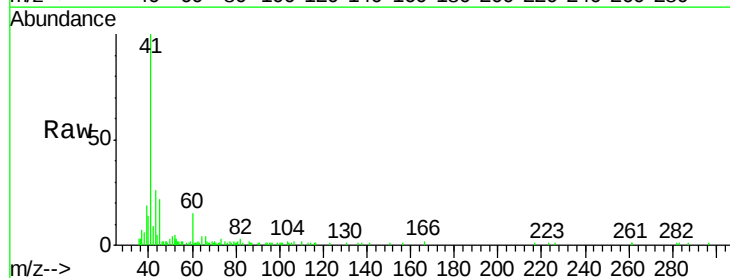
Tot Ion	43	Resp	27760
Ion Ratio	Lower	Upper	
43	100		
61	20.0	16.8	25.2
87	15.8	12.4	18.6

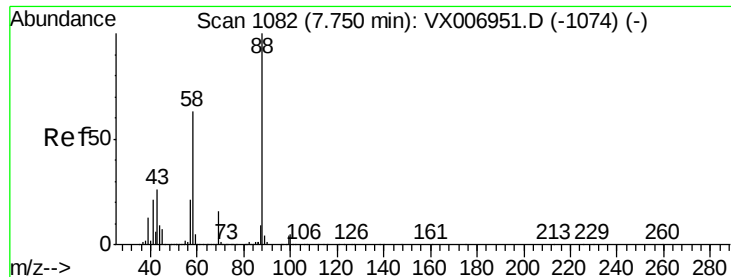


#48

Methyl methacrylate
 Concen: 2.228 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX007243.D
 Acq: 25 Jan 2019 21:35

Tgt Ion	41	Resp	13908
Ion Ratio	Lower	Upper	
41	100		
69	1.2	72.4	108.6#
39	0.0	45.8	68.8#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

ClientSampleId :

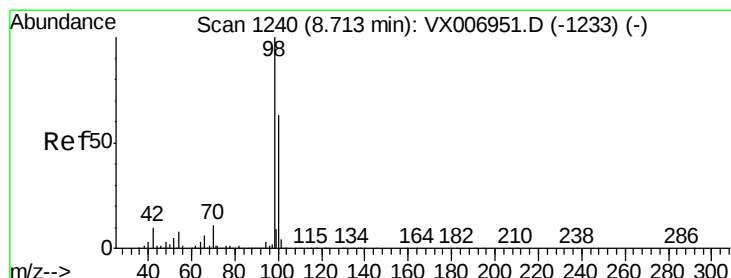
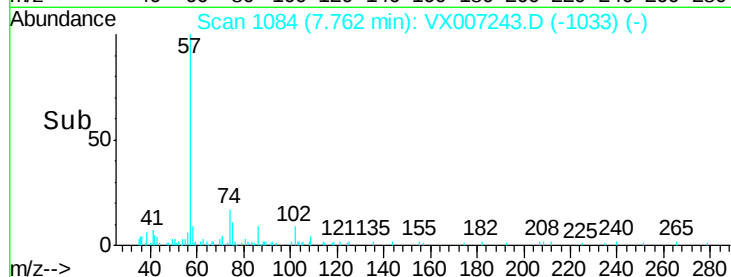
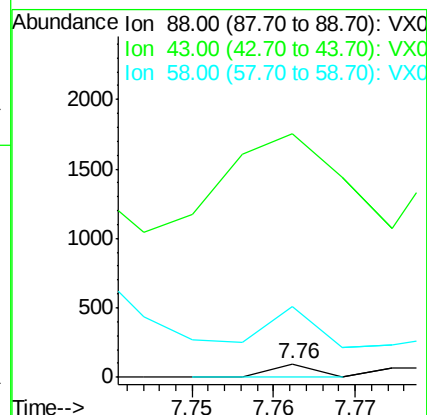
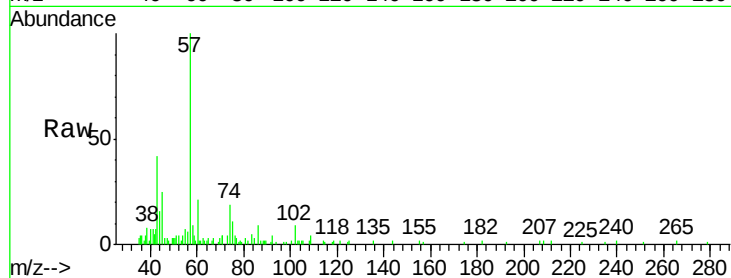
Tot Ion: 88 Resp: 35

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 0.0 51.0 76.4#



#50

Toluene-d8

Concen: 51.455 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007243.D

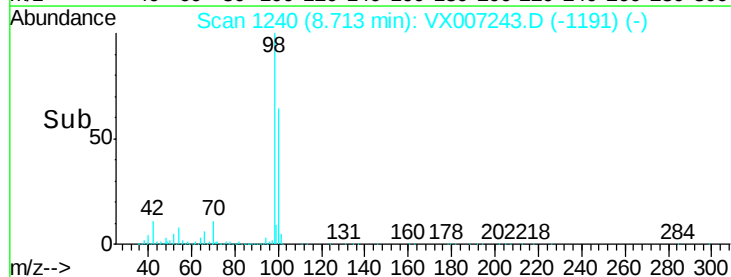
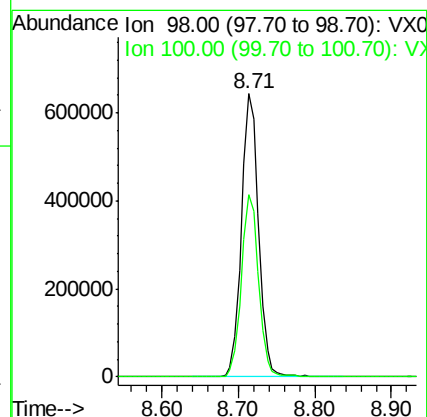
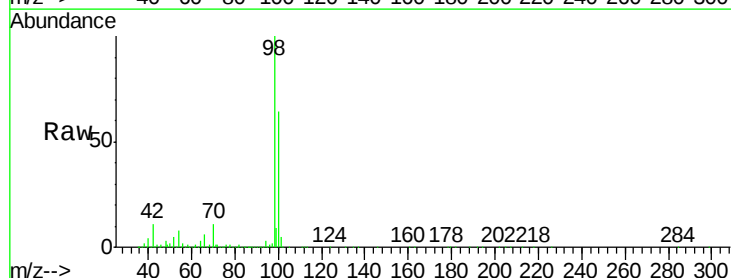
Acq: 25 Jan 2019 21:35

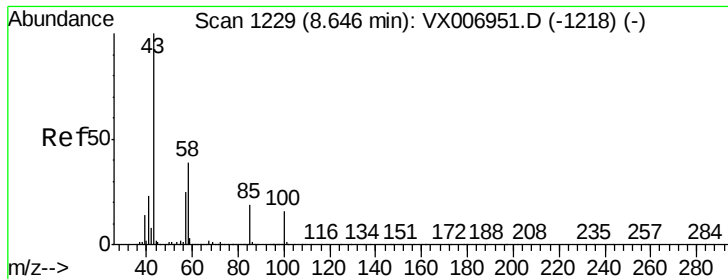
Tgt Ion: 98 Resp: 997290

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 19.261 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

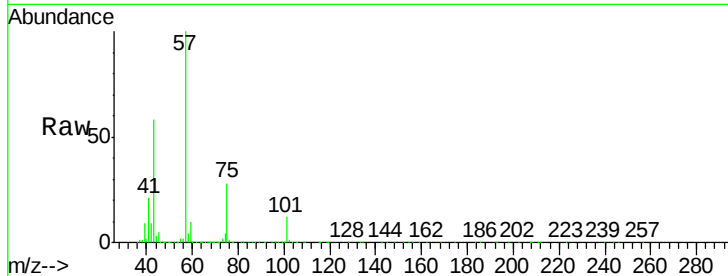
ClientSampled :

Tot Ion: 43 Resp: 150476

Ion Ratio Lower Upper

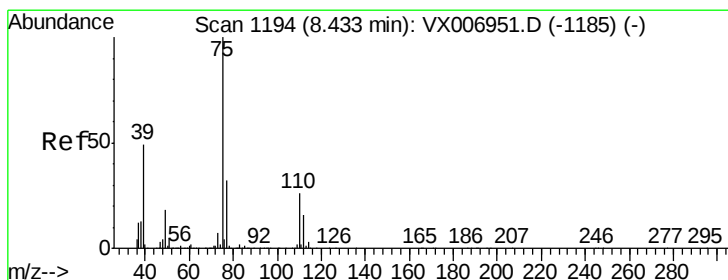
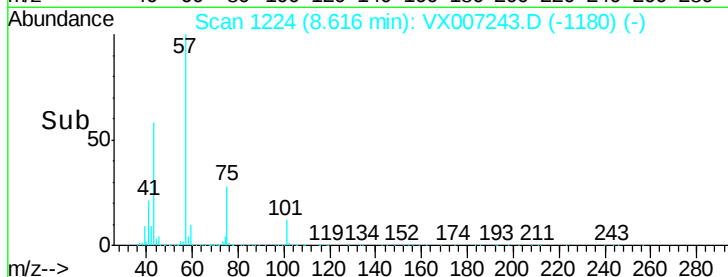
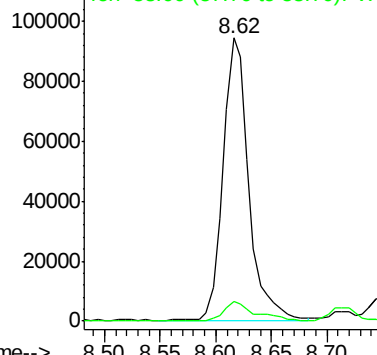
43 100

58 8.4 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: 8.997 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

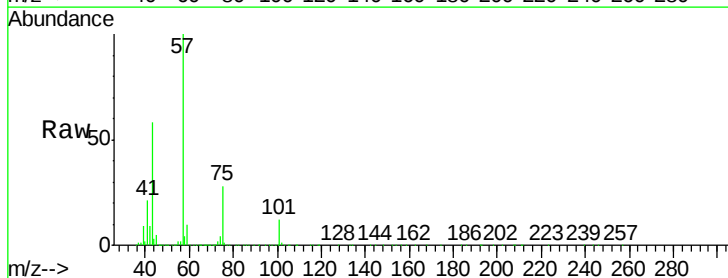
Tgt Ion: 75 Resp: 72680

Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.2#

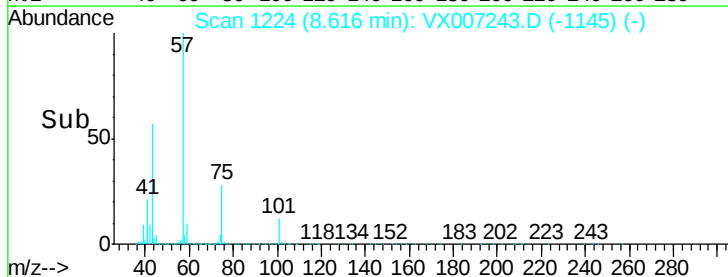
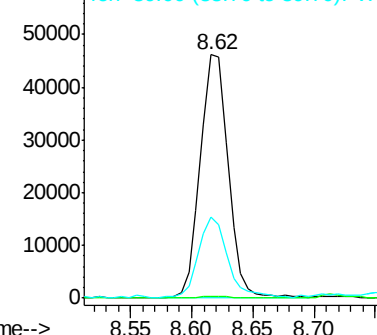
39 32.9 36.7 55.1#

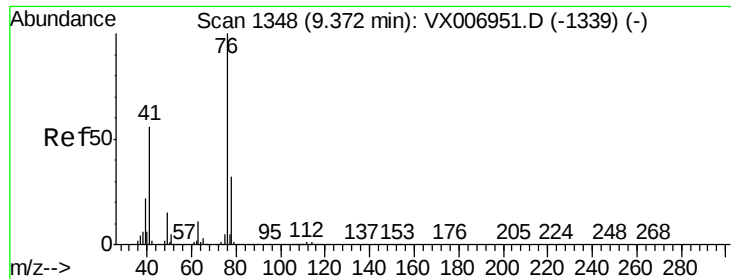


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.992 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

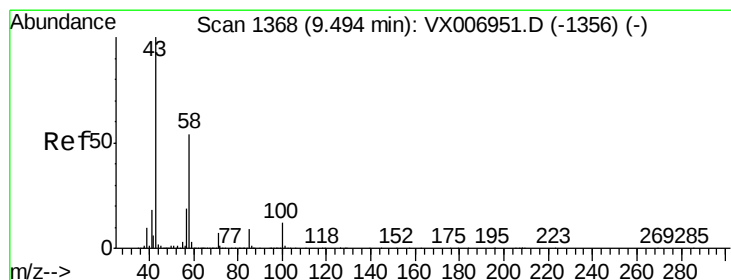
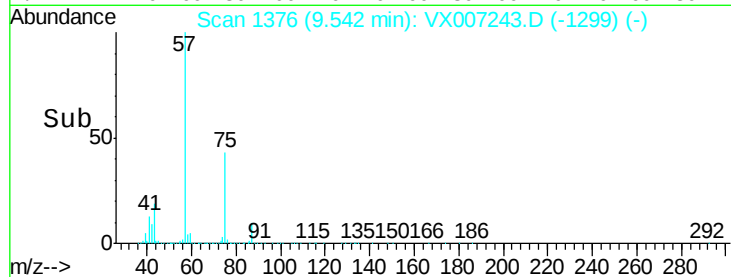
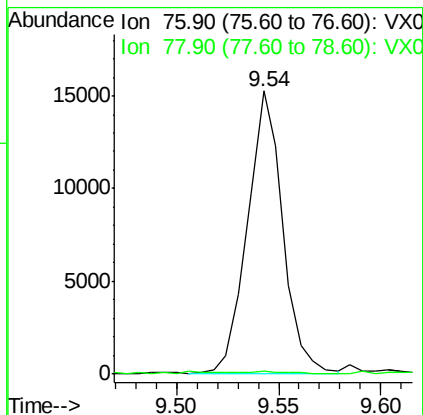
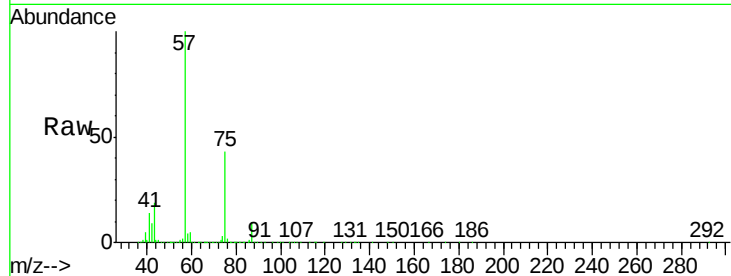
ClientSampleId :

Tot Ion: 76 Resp: 18419

Ion Ratio Lower Upper

76 100

78 1.3 26.0 39.0#



#59

2-Hexanone

Concen: 39.689 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007243.D

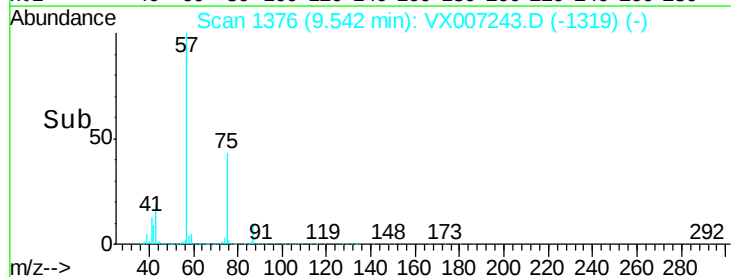
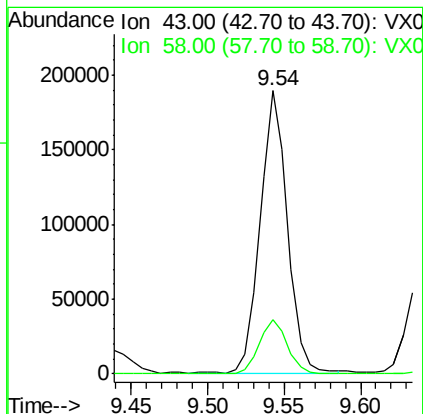
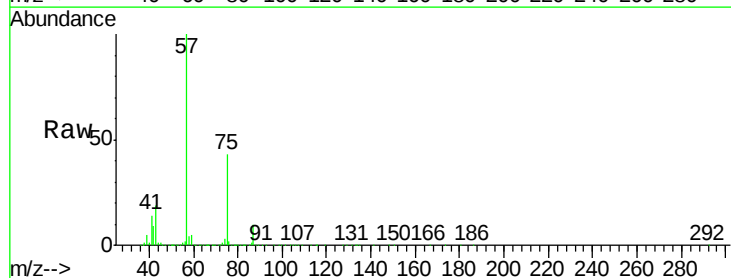
Acq: 25 Jan 2019 21:35

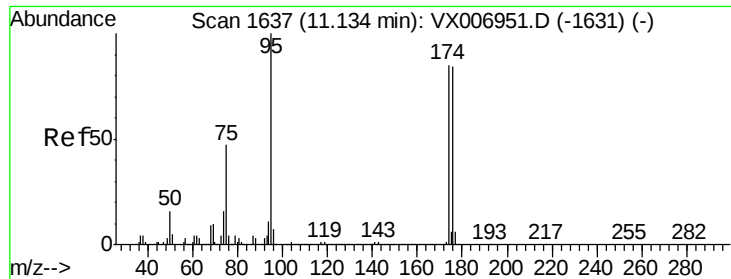
Tgt Ion: 43 Resp: 236298

Ion Ratio Lower Upper

43 100

58 19.8 27.7 83.1#

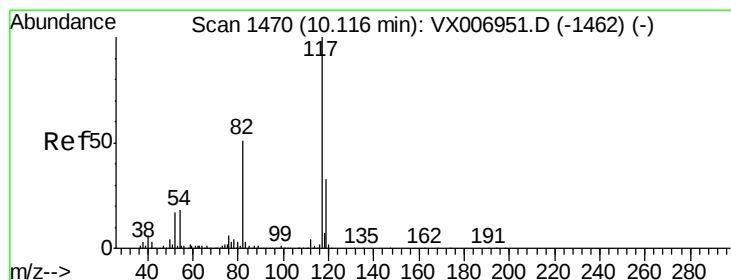
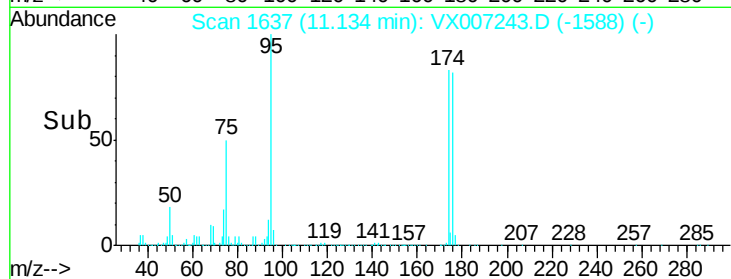
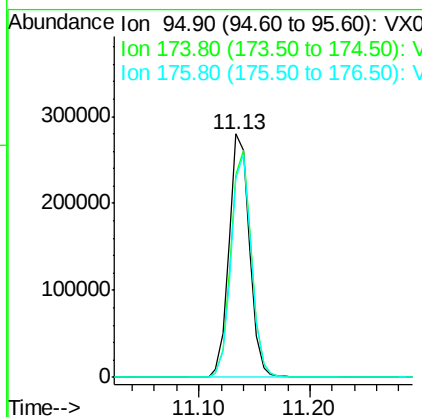
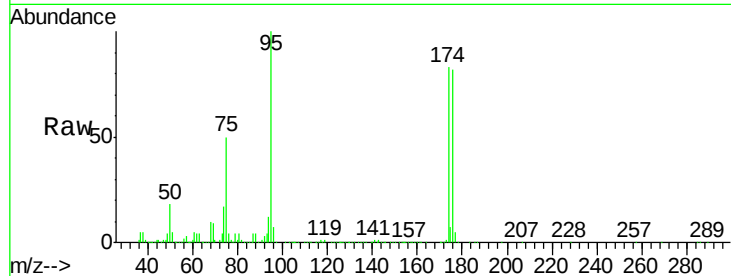




#62
4-Bromofluorobenzene
Concen: 52.648 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007243.D
Acq: 25 Jan 2019 21:35

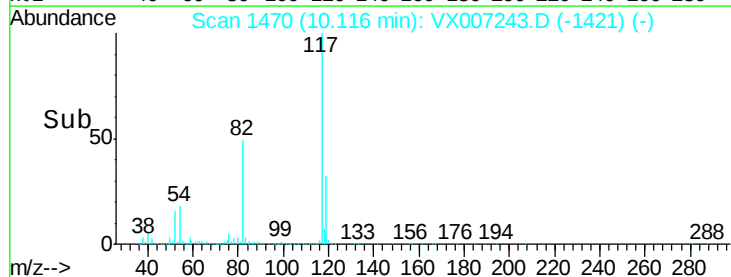
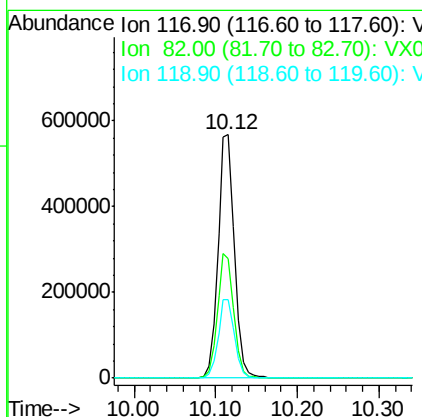
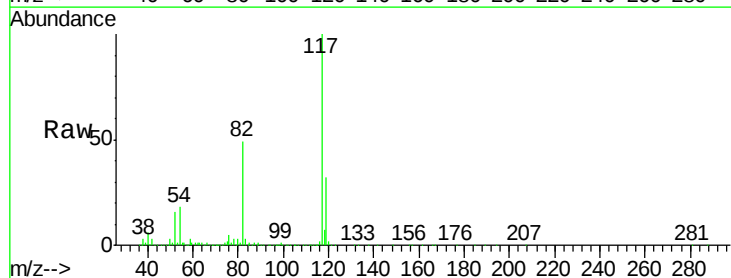
Instrument :
MSVOA_X
ClientSampleId :

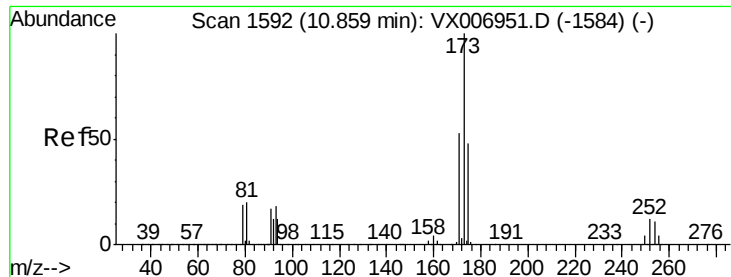
Tot Ion	Ratio	Lower	Upper
95	100		
174	93.8	0.0	182.2
176	90.6	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX007243.D
Acq: 25 Jan 2019 21:35

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.2	41.0	61.6
119	32.0	25.4	38.0





#71

Bromoform

Concen: 4.749 ug/l

RT: 10.87 min Scan# 1594

Delta R.T. 0.01 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

ClientSampleId :

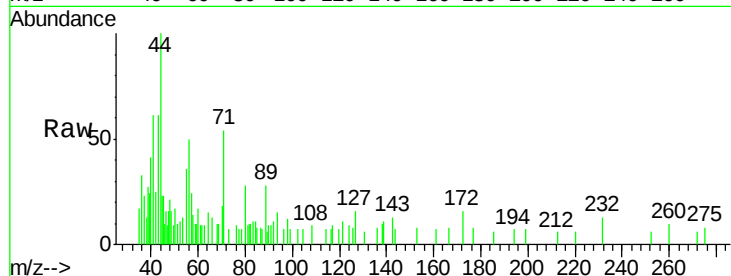
Tot Ion:173 Resp: 122

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

254 0.0 0.2 0.2#



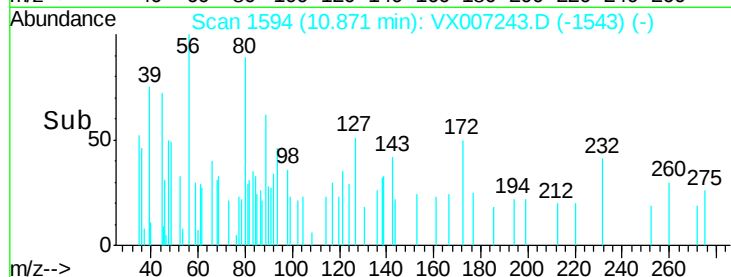
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

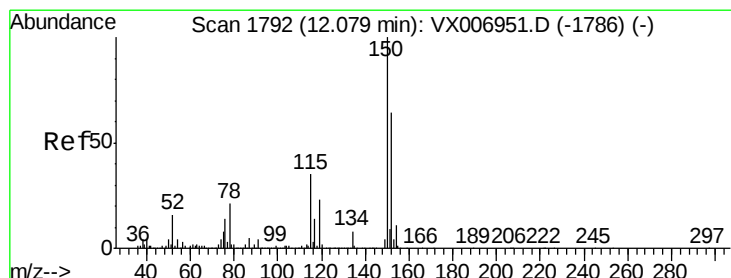
Ion 254.40 (254.10 to 255.10): V

10.87

10.84 10.86 10.88 10.90



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

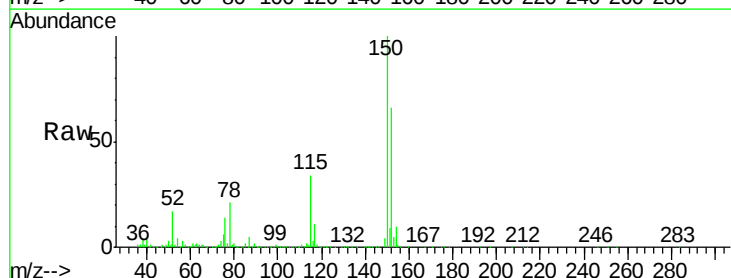
Tgt Ion:152 Resp: 385050

Ion Ratio Lower Upper

152 100

115 54.8 39.1 117.2

150 155.1 0.0 344.8



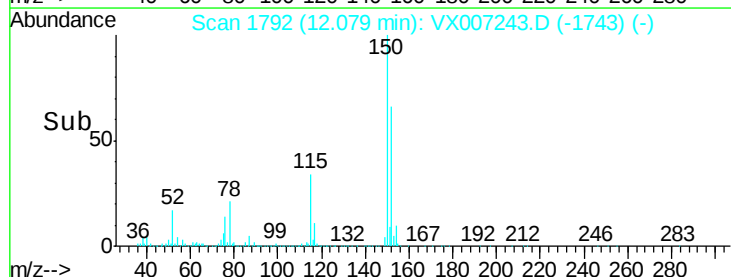
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

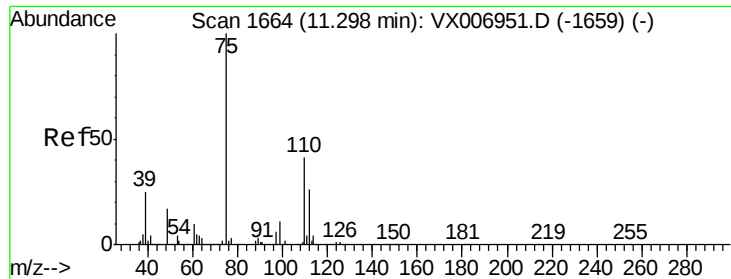
Ion 149.90 (149.60 to 150.60): V

12.08

12.00 12.10



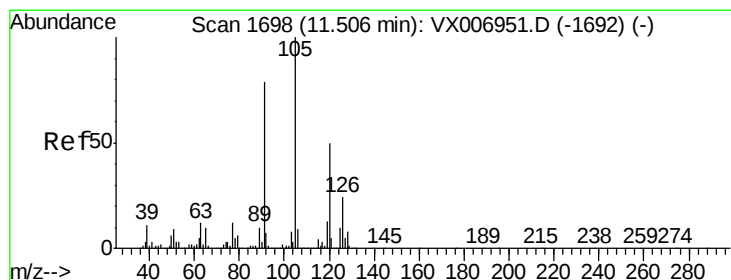
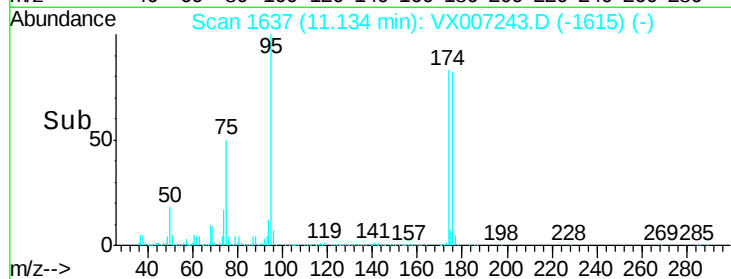
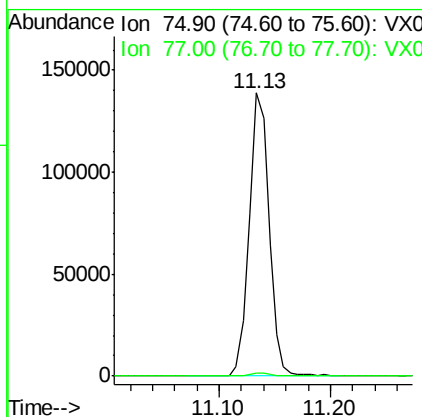
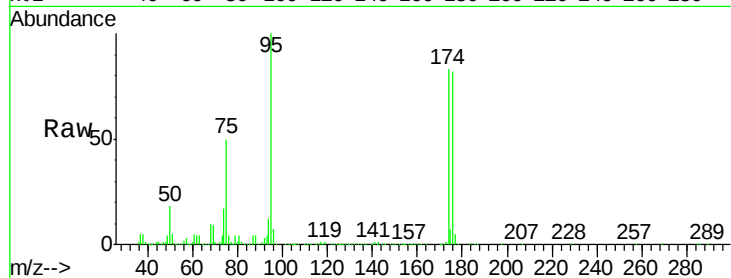
Time-->



#76
 1,2,3-Trichloropropane
 Concen: 22.146 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007243.D
 Acq: 25 Jan 2019 21:35

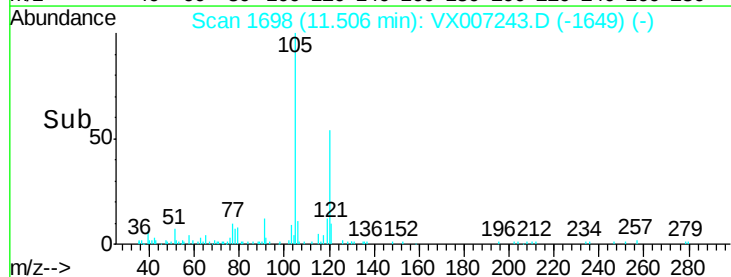
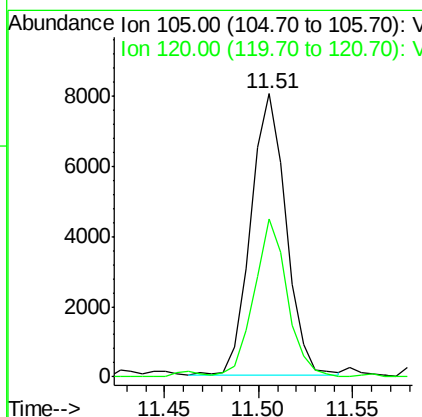
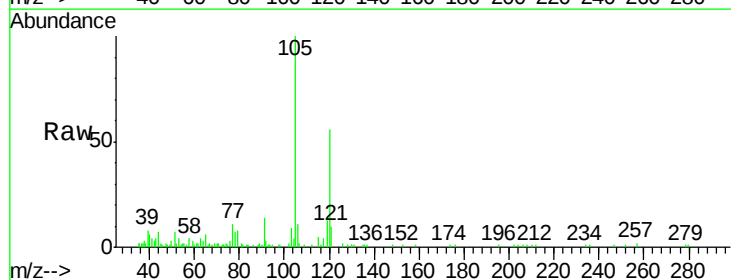
Instrument :
 MSVOA_X
 ClientSampleId :

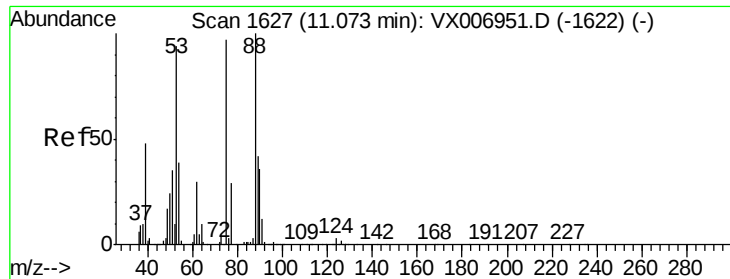
Tot Ion: 75 Resp: 172802
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.5 55.5#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.456 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX007243.D
 Acq: 25 Jan 2019 21:35

Tgt Ion:105 Resp: 10337
 Ion Ratio Lower Upper
 105 100
 120 53.1 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 65.560 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

ClientSampleId :

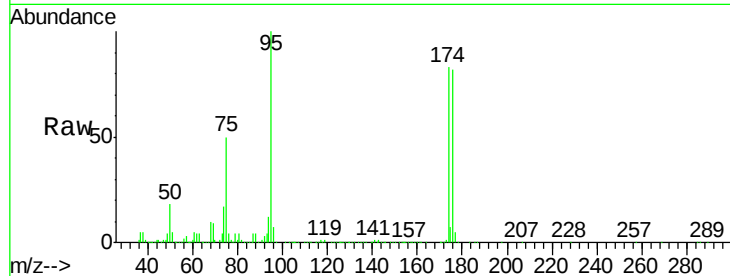
Tot Ion: 75 Resp: 172802

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

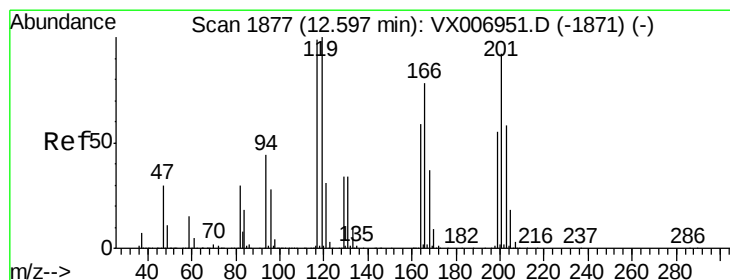
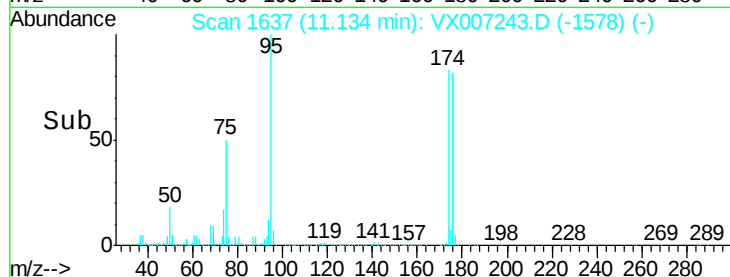
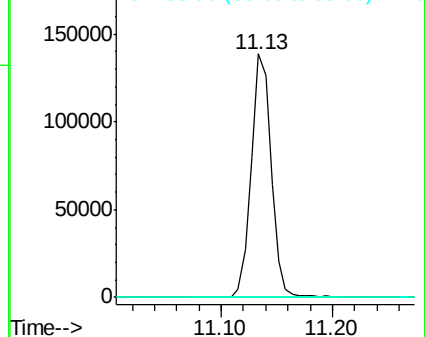
89 0.1 38.0 57.0#



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: 2.916 ug/l

RT: 12.54 min Scan# 1868

Delta R.T. -0.05 min

Lab File: VX007243.D

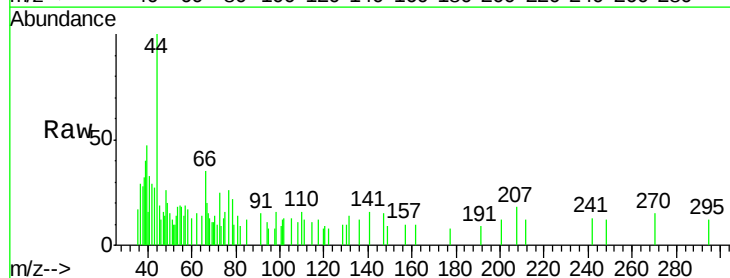
Acq: 25 Jan 2019 21:35

Tgt Ion: 117 Resp: 30

Ion Ratio Lower Upper

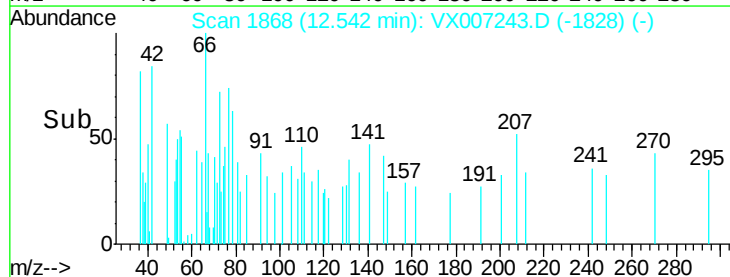
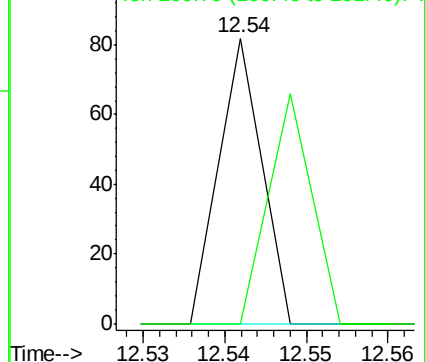
117 100

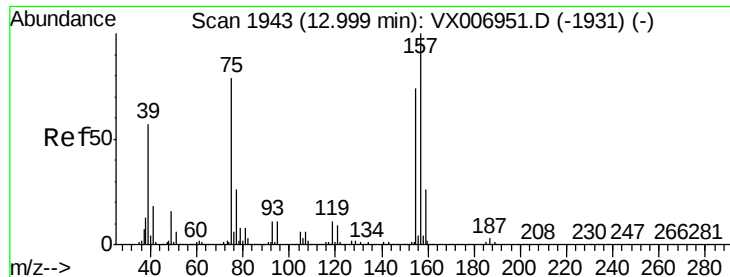
201 80.0 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.235 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VX007243.D

Acq: 25 Jan 2019 21:35

Instrument :

MSVOA_X

ClientSampleId :

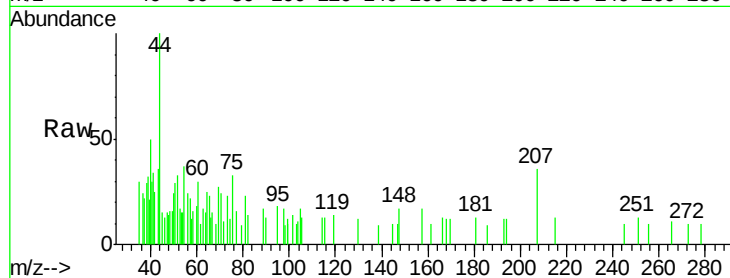
Tot Ion: 75 Resp: 401

Ion Ratio Lower Upper

75 100

155 0.0 50.6 151.8#

157 14.0 64.6 193.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

Time-->

