

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053019\
 Data File : VX009954.D
 Acq On : 30 May 2019 12:44
 Operator : JC/SP
 Sample : K3032-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0653

Quant Time: May 31 05:32:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	173853	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	276291	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	252233	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109660	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	118064	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
35) Dibromofluoromethane	5.50	113	86769	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
50) Toluene-d8	8.71	98	354476	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
62) 4-Bromofluorobenzene	11.13	95	118888	46.92	ug/l	0.00
Spiked Amount			Recovery	=	93.84%	

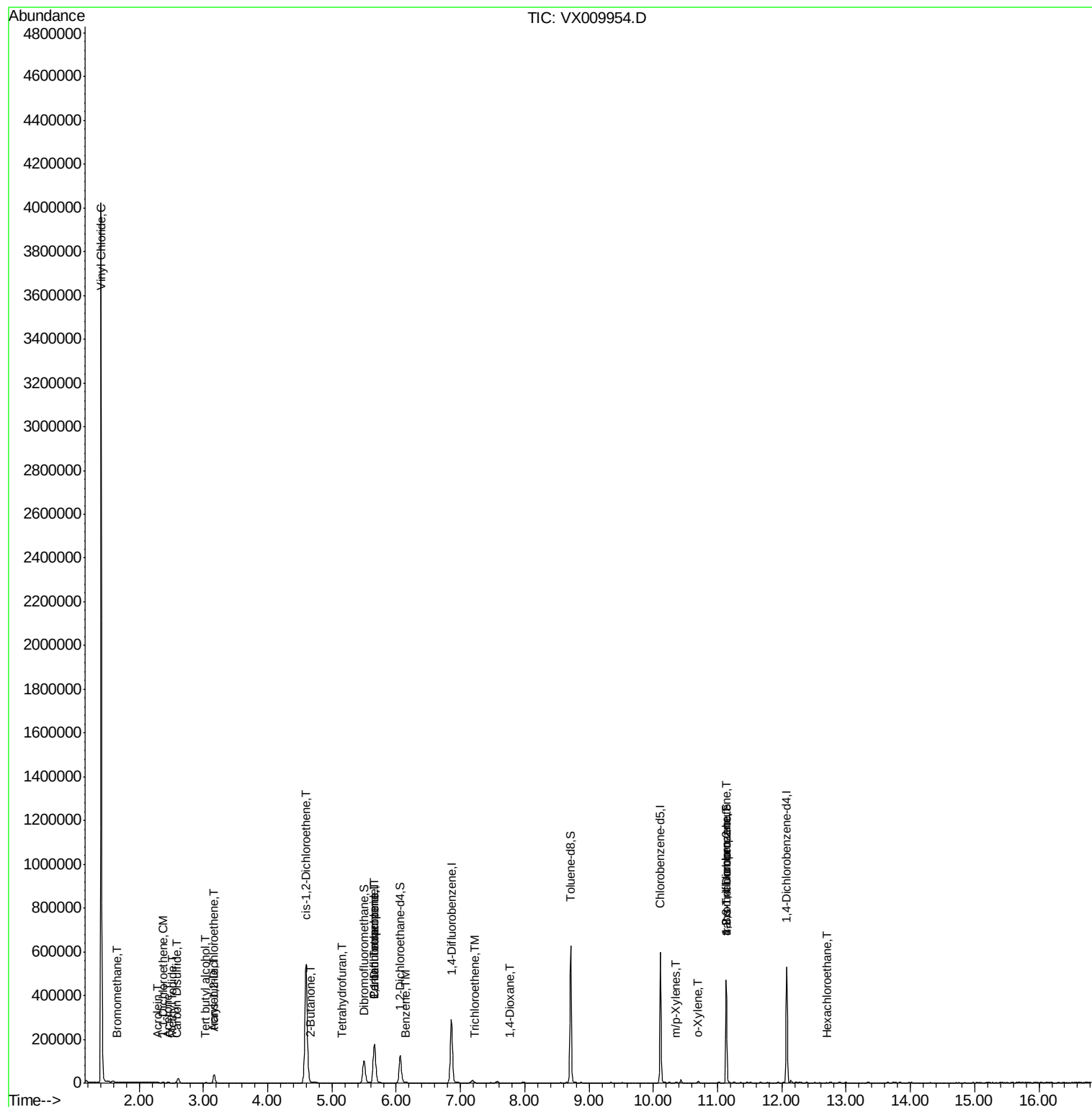
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	2803048	1088.716	ug/l	99
5) Bromomethane	1.65	94	367	0.235	ug/l #	54
10) Methyl Iodide	2.52	142	451	4.849	ug/l #	80
11) Tert butyl alcohol	3.04	59	1237	2.047	ug/l #	84
12) 1,1-Dichloroethene	2.37	96	1579	0.897	ug/l	90
13) Acrolein	2.29	56	259	21.650	ug/l	92
15) Acrylonitrile	3.15	53	328	0.225	ug/l #	33
16) Acetone	2.44	43	3513	2.476	ug/l	93
17) Carbon Disulfide	2.57	76	1544	0.672	ug/l #	90
21) trans-1,2-Dichloroethene	3.17	96	15468	7.896	ug/l	97
25) 2-Butanone	4.68	43	444	0.201	ug/l #	54
27) cis-1,2-Dichloroethene	4.60	96	328462	145.249	ug/l	88
29) Tetrahydrofuran	5.15	42	489	0.345	ug/l #	78
36) 1,1-Dichloropropene	5.67	75	14143	5.045	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16284	6.722	ug/l #	15
40) Benzene	6.14	78	1732	0.208	ug/l	95
44) Trichloroethene	7.23	130	469	0.232	ug/l	63
49) 1,4-Dioxane	7.77	88	20	0.345	ug/l #	1
68) m/p-Xylenes	10.36	106	792	0.226	ug/l	87
69) o-Xylene	10.69	106	1261	0.375	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	62120	23.689	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62120	58.610	ug/l #	10
90) Hexachloroethane	12.69	117	248	0.207	ug/l #	6

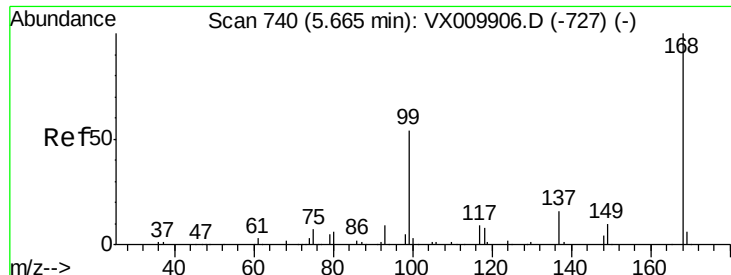
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX053019\
Data File : VX009954.D
Acq On : 30 May 2019 12:44
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Instrument :
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ClientSampleId :
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Quant Time: May 31 05:32:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
Quant Title : SW846 8260
QLast Update : Wed May 29 04:00:56 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: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampleId :

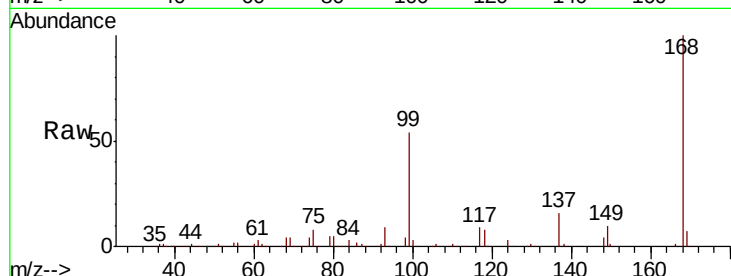
S32-0653

Tot Ion:168 Resp: 173853

Ion Ratio Lower Upper

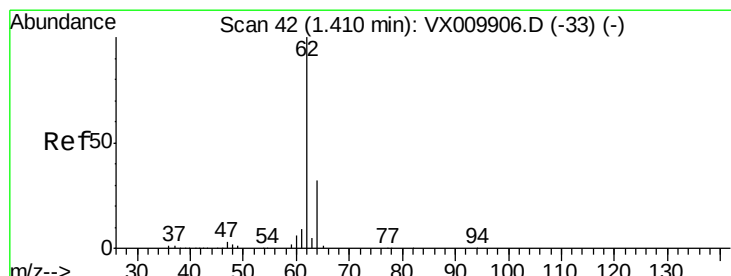
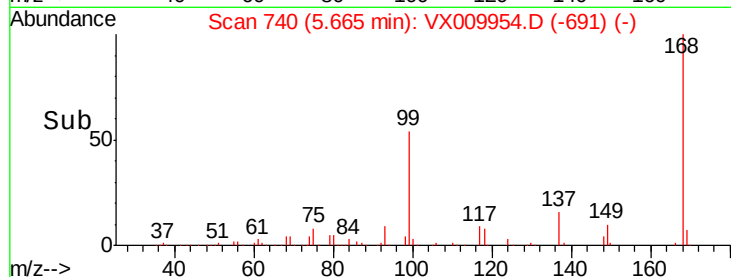
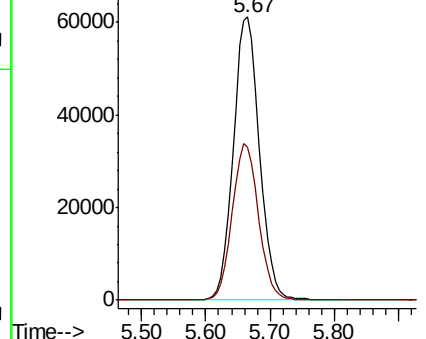
168 100

99 54.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 1088.716 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009954.D

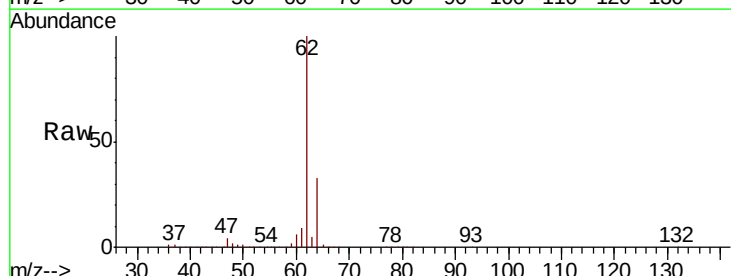
Acq: 30 May 2019 12:44

Tgt Ion: 62 Resp: 2803048

Ion Ratio Lower Upper

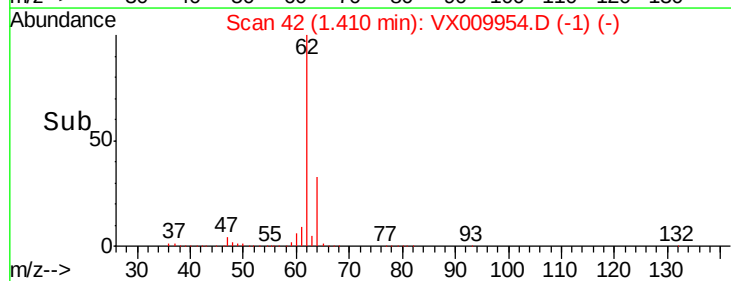
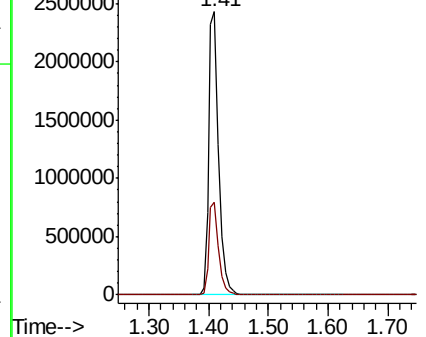
62 100

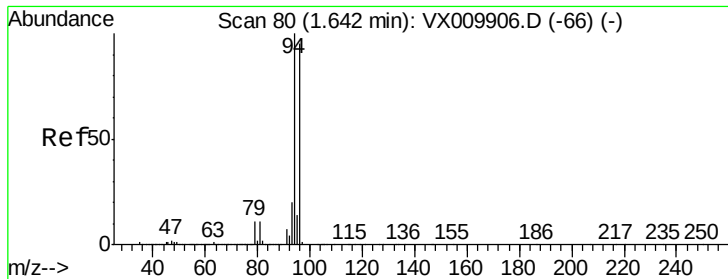
64 32.7 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.235 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampled :

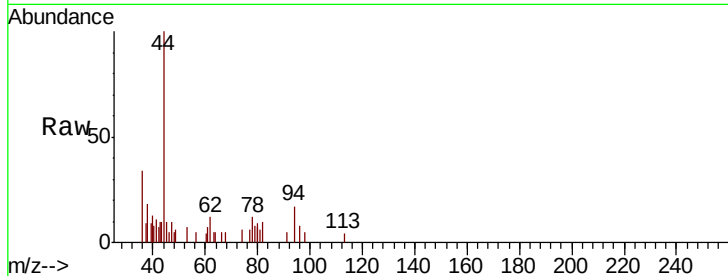
S32-0653

Tot Ion: 94 Resp: 367

Ion Ratio Lower Upper

94 100

96 51.0 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

100

50

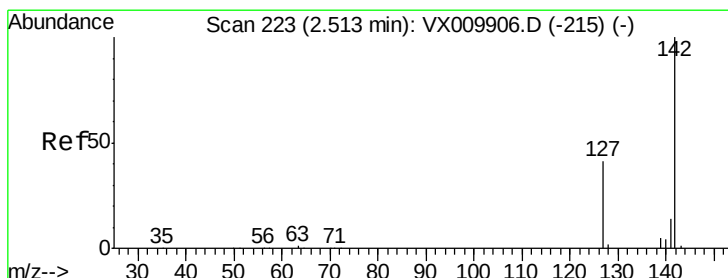
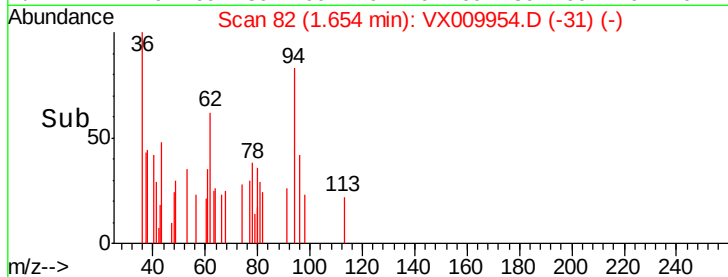
0

1.60

1.65

1.70

Time-->



#10

Methyl Iodide

Concen: 4.849 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

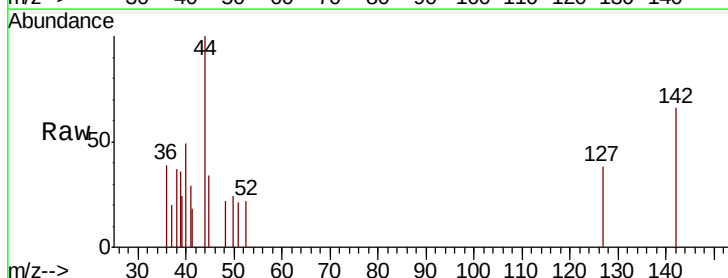
Tgt Ion: 142 Resp: 451

Ion Ratio Lower Upper

142 100

127 50.3 33.0 49.4#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

150

100

50

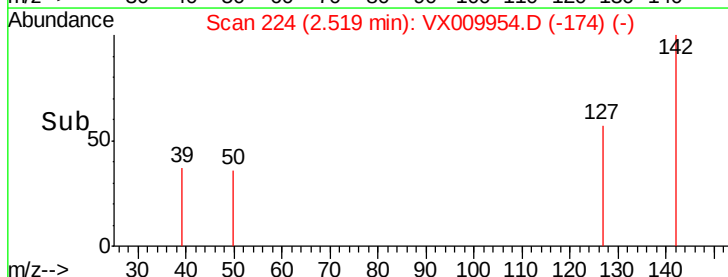
0

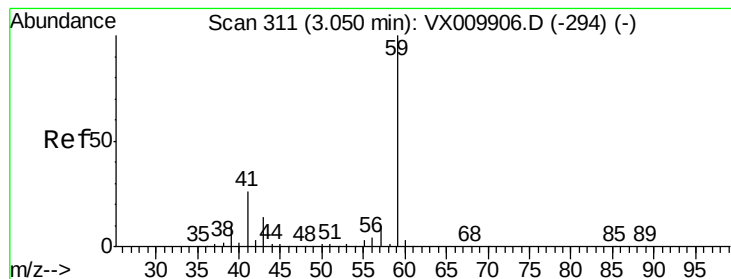
2.45

2.50

2.55

Time-->



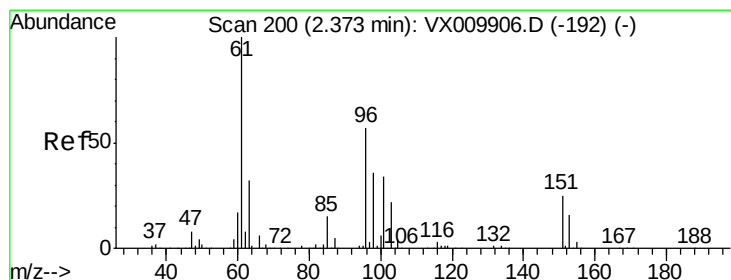
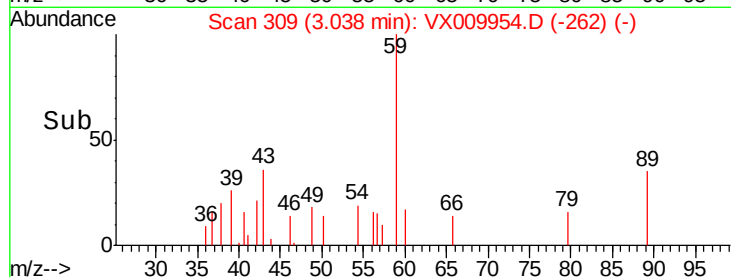
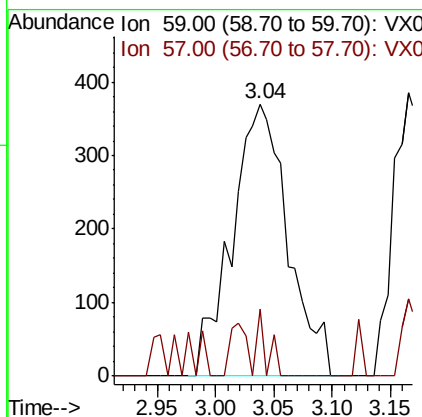
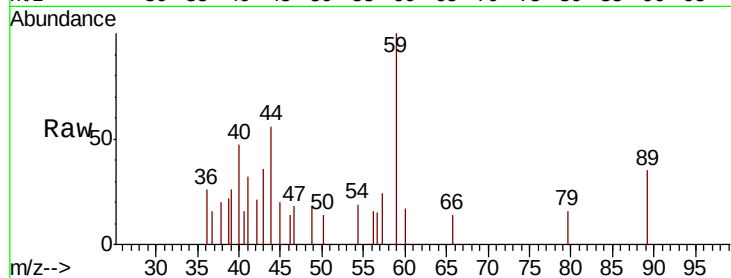


#11

Tert butyl alcohol
 Concen: 2.047 ug/l
 RT: 3.04 min Scan# 309
 Delta R.T. -0.01 min
 Lab File: VX009954.D
 Acq: 30 May 2019 12:44

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0653

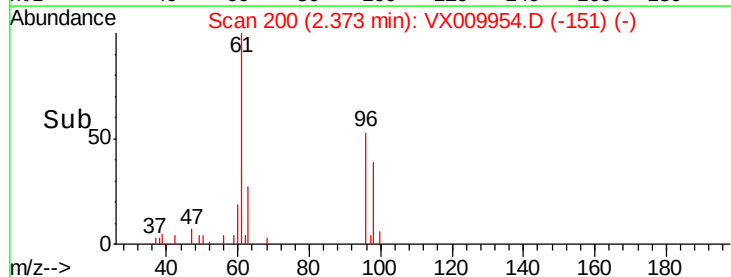
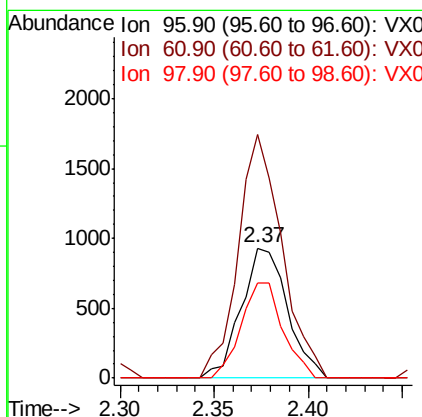
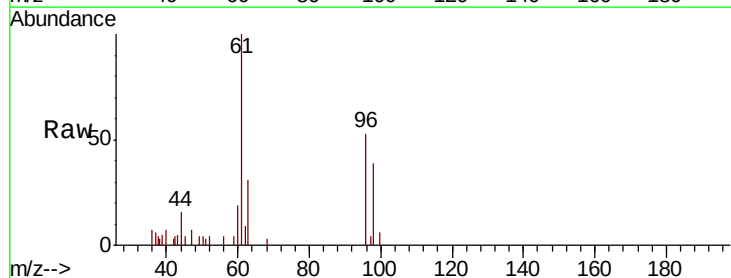
Tot Ion: 59 Resp: 1237
 Ion Ratio Lower Upper
 59 100
 57 4.3 8.2 12.2#

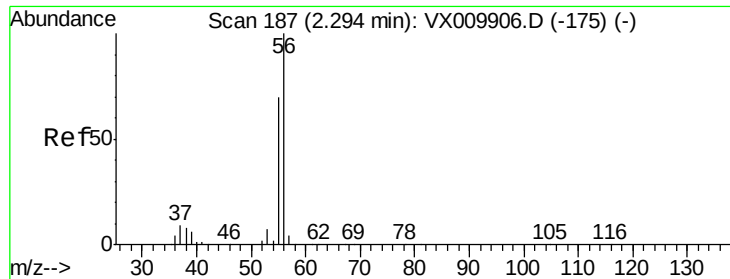


#12

1,1-Dichloroethene
 Concen: 0.897 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.00 min
 Lab File: VX009954.D
 Acq: 30 May 2019 12:44

Tgt Ion: 96 Resp: 1579
 Ion Ratio Lower Upper
 96 100
 61 187.4 140.7 211.1
 98 73.0 50.1 75.1





#13

Acrolein

Concen: 21.650 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampled :

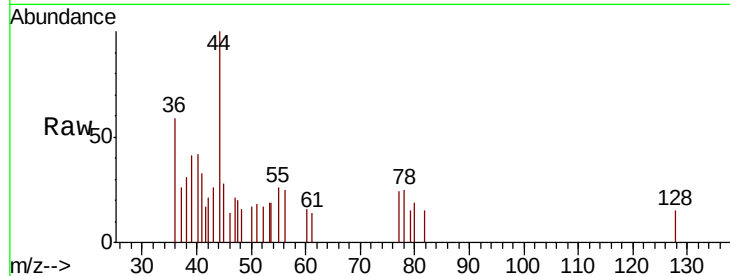
S32-0653

Tot Ion: 56 Resp: 259

Ion Ratio Lower Upper

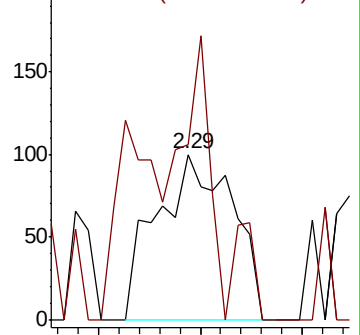
56 100

55 64.5 57.0 85.4

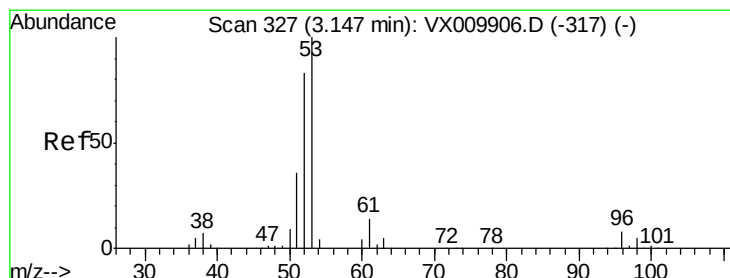
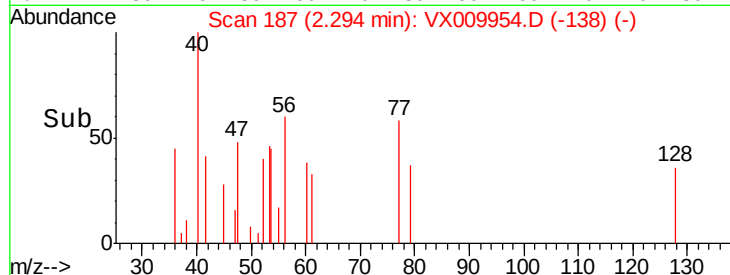


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.225 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

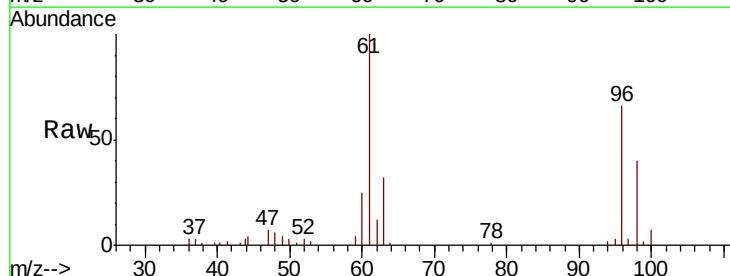
Tgt Ion: 53 Resp: 328

Ion Ratio Lower Upper

53 100

52 129.9 66.7 100.1#

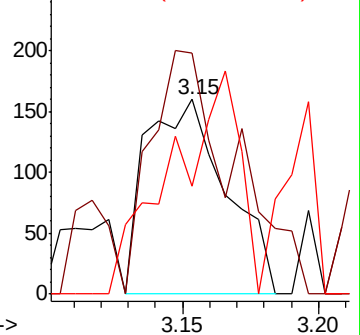
51 96.6 28.8 43.2#



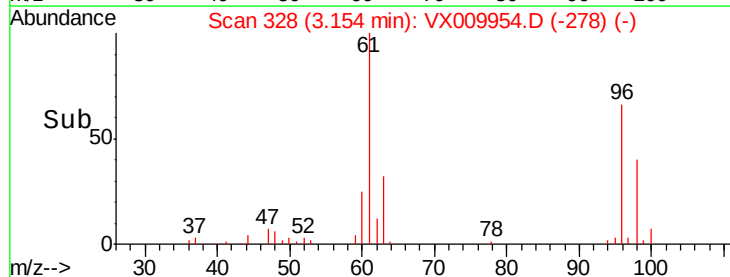
Abundance Ion 53.00 (52.70 to 53.70): VX0

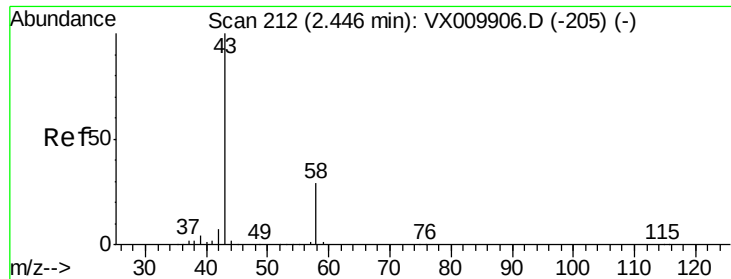
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->





#16

Acetone

Concen: 2.476 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampleId :

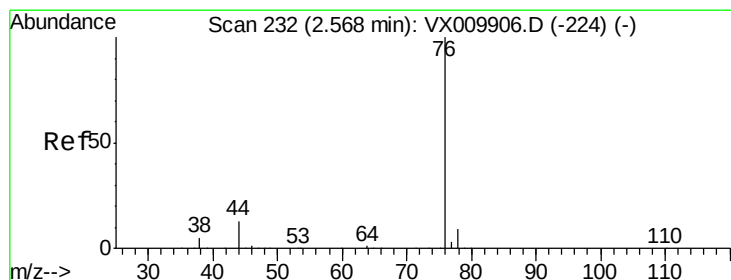
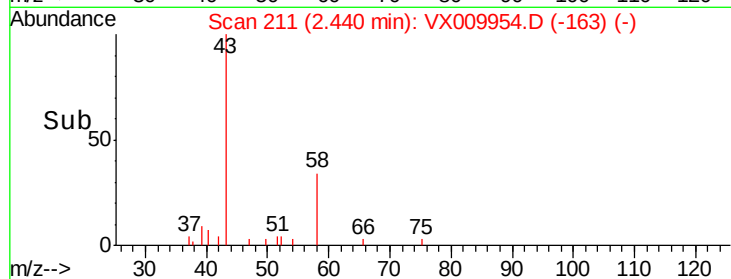
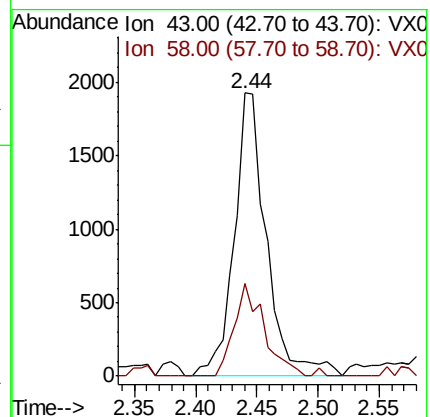
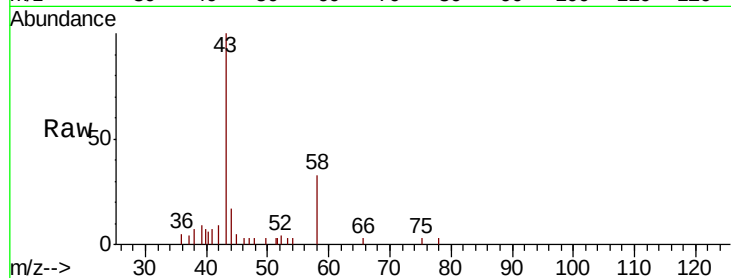
S32-0653

Tot Ion: 43 Resp: 3513

Ion Ratio Lower Upper

43 100

58 32.5 23.2 34.8



#17

Carbon Disulfide

Concen: 0.672 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009954.D

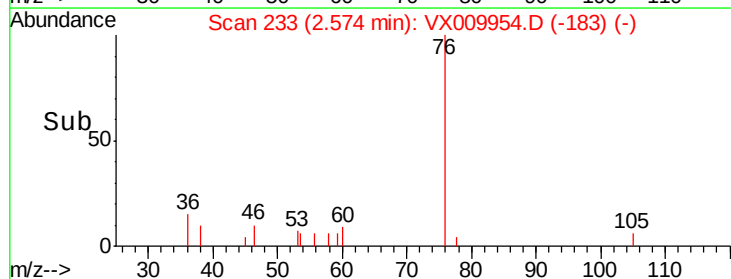
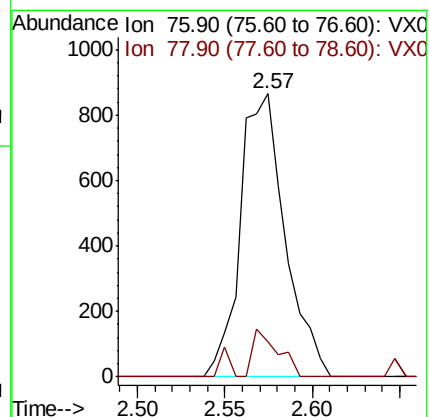
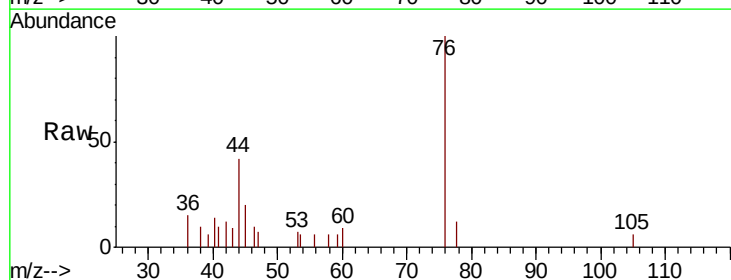
Acq: 30 May 2019 12:44

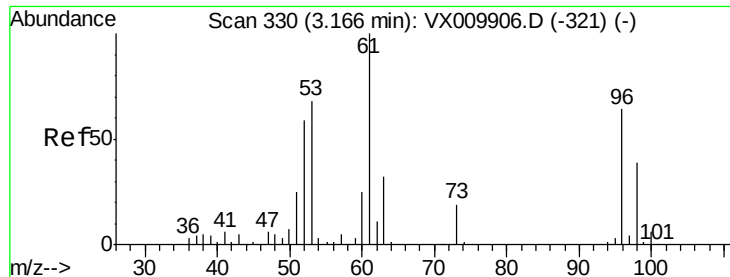
Tgt Ion: 76 Resp: 1544

Ion Ratio Lower Upper

76 100

78 12.4 7.0 10.6#





#21

trans-1,2-Dichloroethene

Concen: 7.896 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampleId :

S32-0653

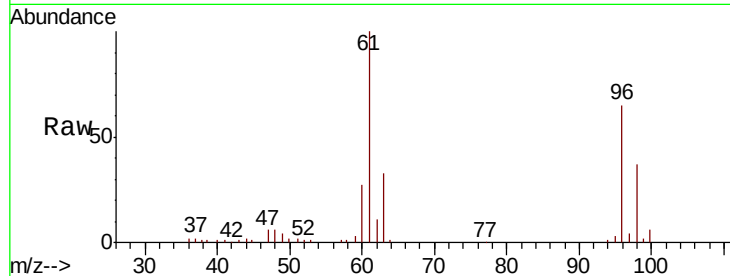
Tot Ion: 96 Resp: 15468

Ion Ratio Lower Upper

96 100

61 154.7 125.7 188.5

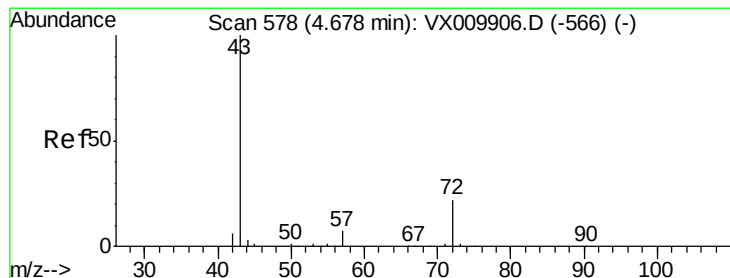
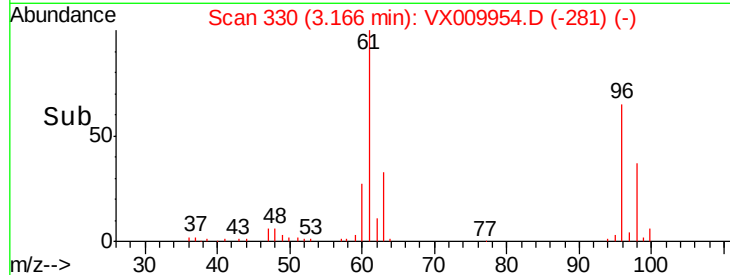
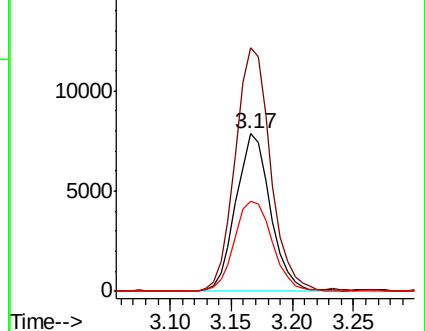
98 57.0 49.0 73.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.201 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.00 min

Lab File: VX009954.D

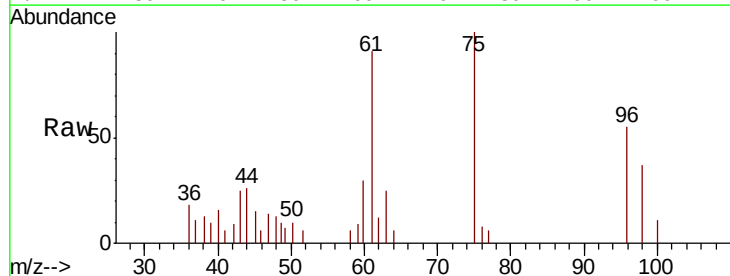
Acq: 30 May 2019 12:44

Tgt Ion: 43 Resp: 444

Ion Ratio Lower Upper

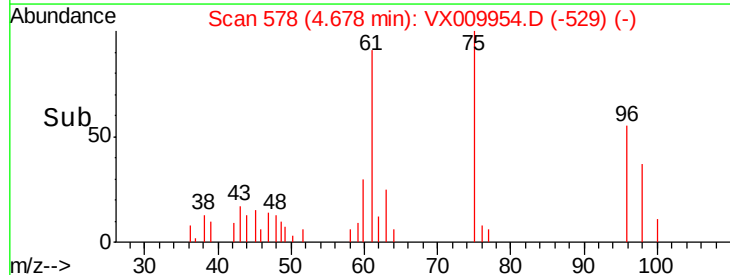
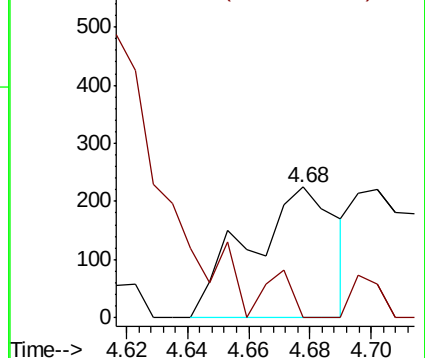
43 100

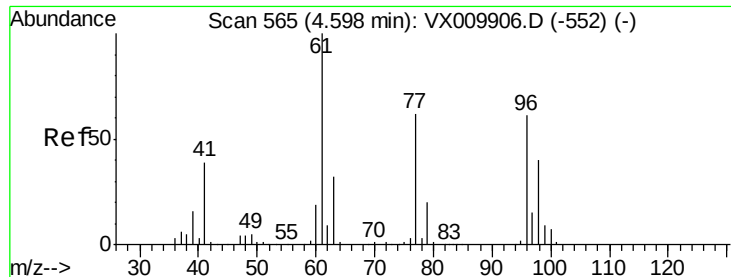
72 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



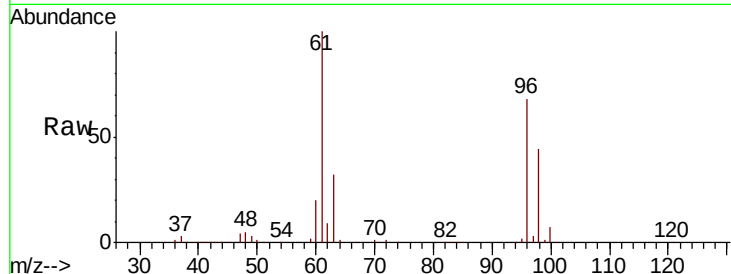


#27

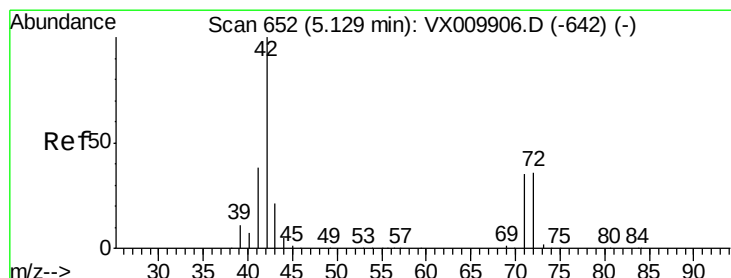
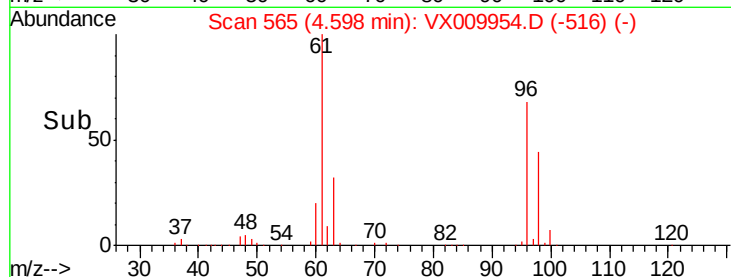
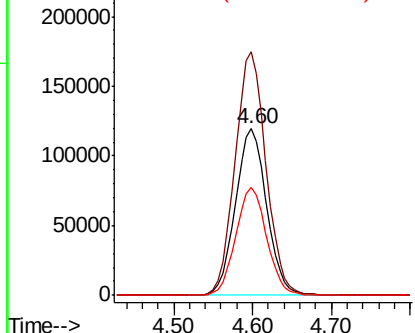
cis-1,2-Dichloroethene
 Concen: 145.249 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX009954.D
 Acq: 30 May 2019 12:44

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0653

Tot Ion: 96 Resp: 328462
 Ion Ratio Lower Upper
 96 100
 61 145.7 0.0 334.0
 98 64.2 0.0 131.6



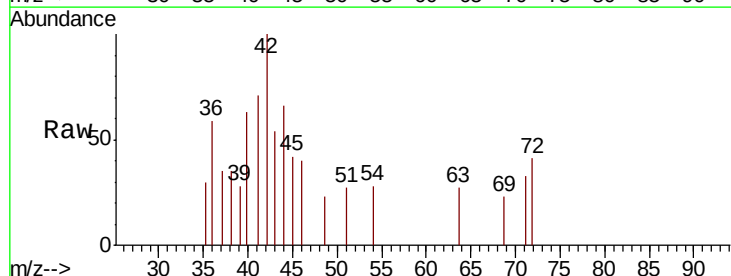
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



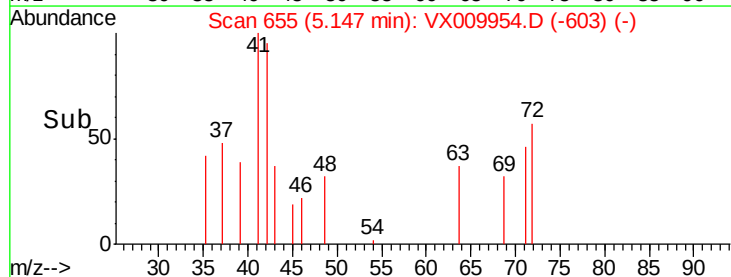
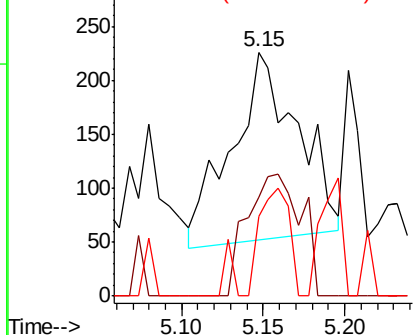
#29

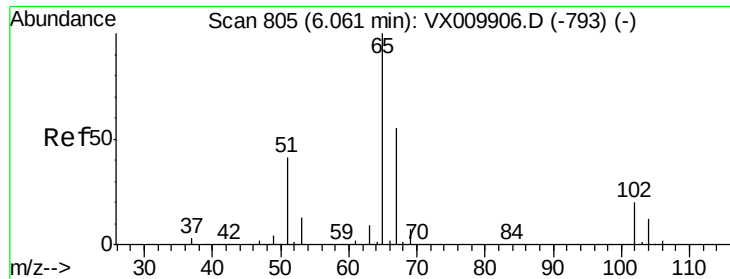
Tetrahydrofuran
 Concen: 0.345 ug/l
 RT: 5.15 min Scan# 655
 Delta R.T. 0.02 min
 Lab File: VX009954.D
 Acq: 30 May 2019 12:44

Tgt Ion: 42 Resp: 489
 Ion Ratio Lower Upper
 42 100
 72 53.2 29.2 43.8#
 71 26.0 27.6 41.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.075 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampled :

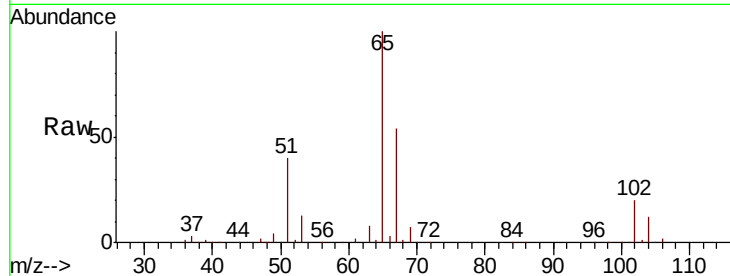
S32-0653

Tot Ion: 65 Resp: 118064

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

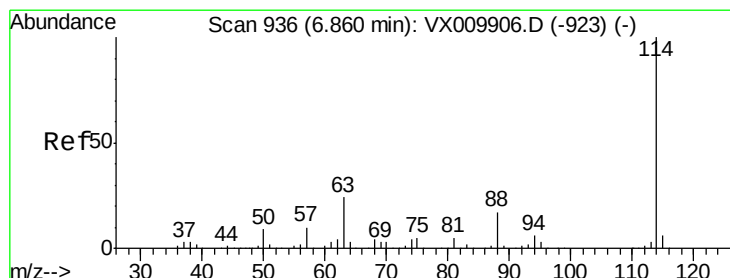
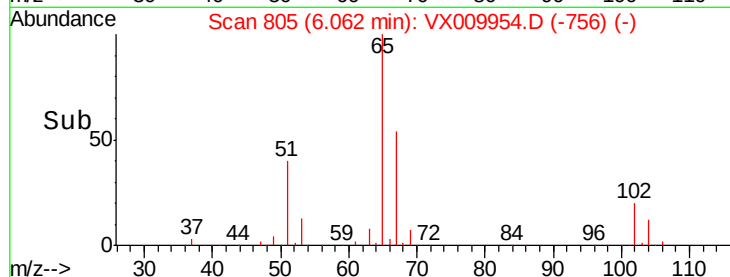
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

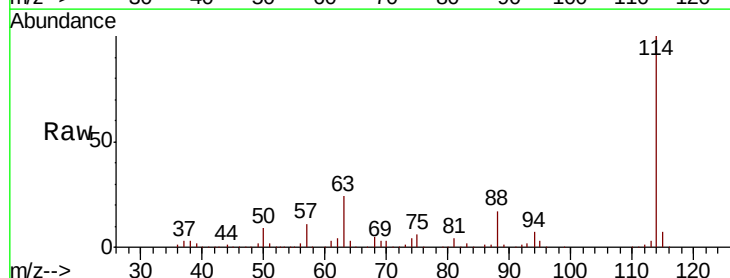
Tgt Ion: 114 Resp: 276291

Ion Ratio Lower Upper

114 100

63 23.6 0.0 47.4

88 17.3 0.0 33.0



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

6.86

150000

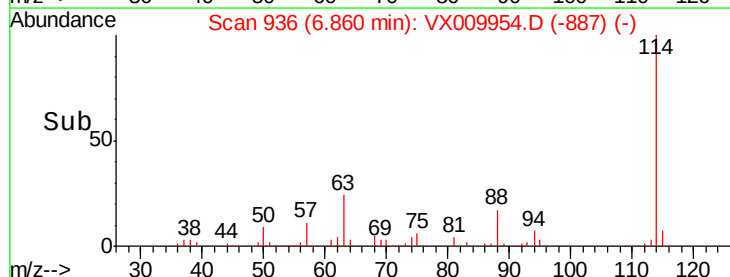
100000

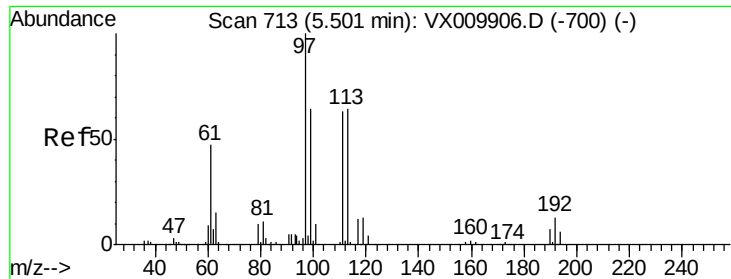
50000

0

Time-->

6.70 6.80 6.90 7.00

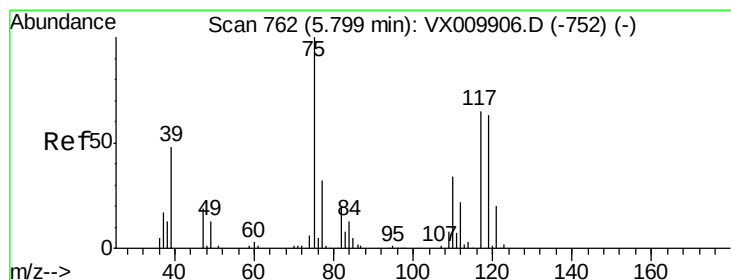
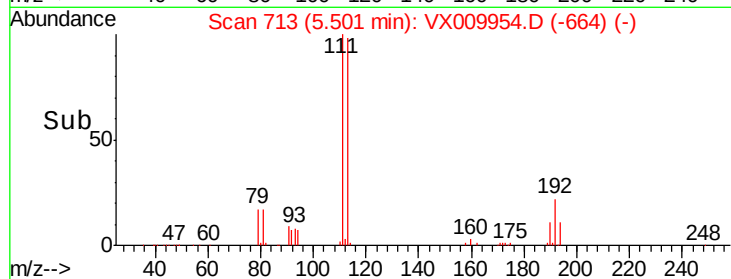
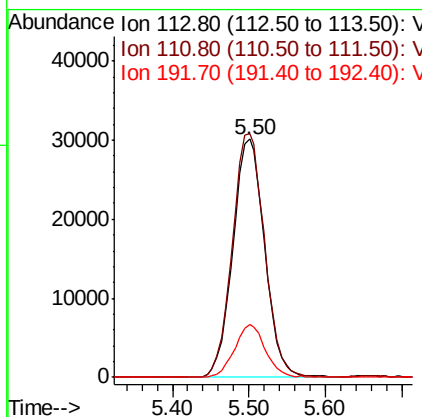
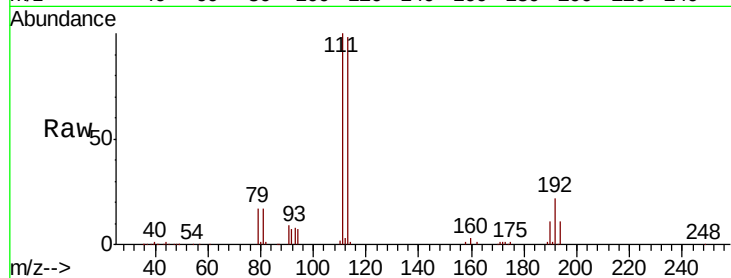




#35
 Dibromofluoromethane
 Concen: 49.952 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX009954.D
 Acq: 30 May 2019 12:44

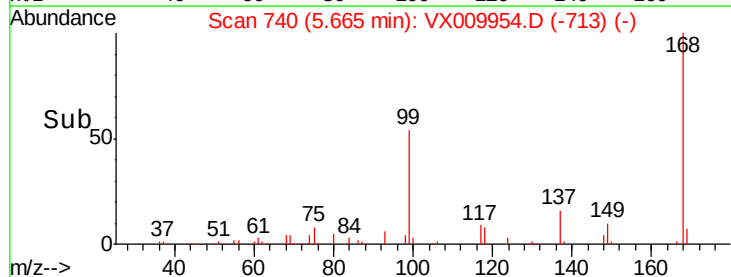
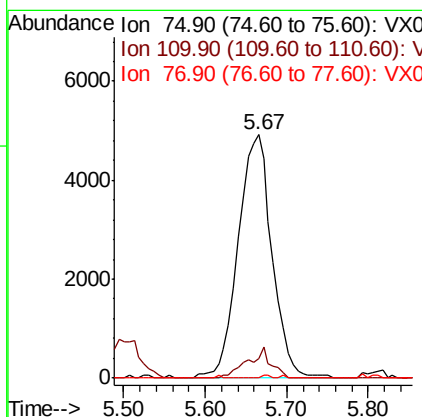
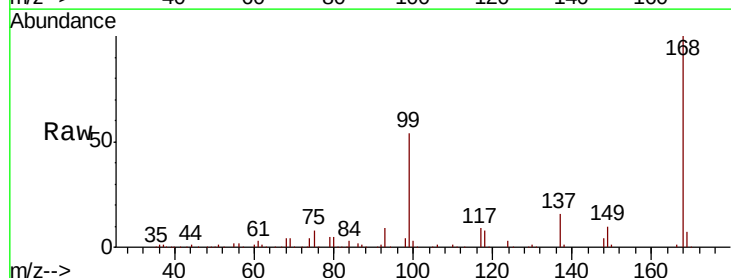
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0653

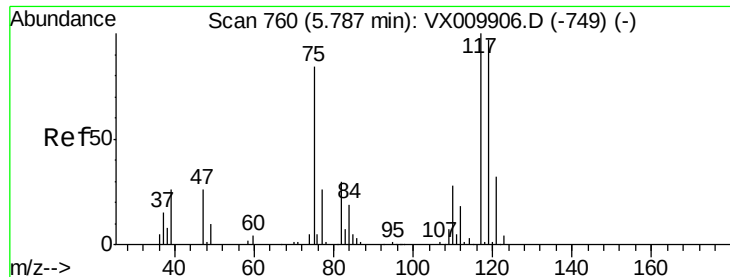
Tot Ion:113 Resp: 86769
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.2 123.2
 192 21.4 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 5.045 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009954.D
 Acq: 30 May 2019 12:44

Tgt Ion: 75 Resp: 14143
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.7 50.1#
 77 0.3 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.722 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampleId :

S32-0653

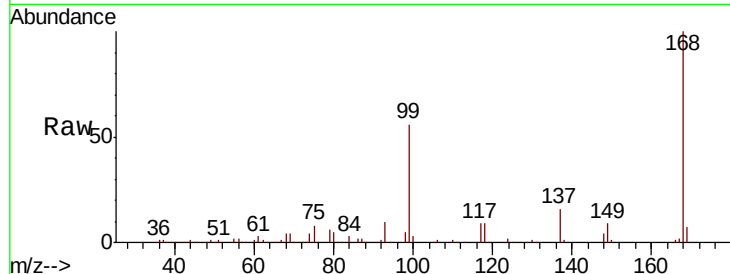
Tot Ion:117 Resp: 16284

Ion Ratio Lower Upper

117 100

119 4.6 77.3 115.9#

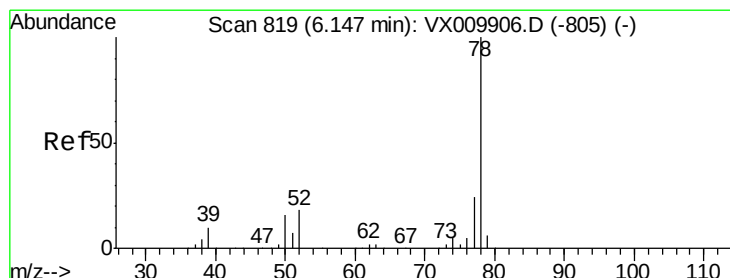
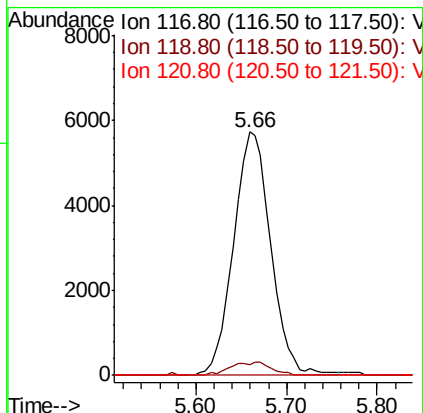
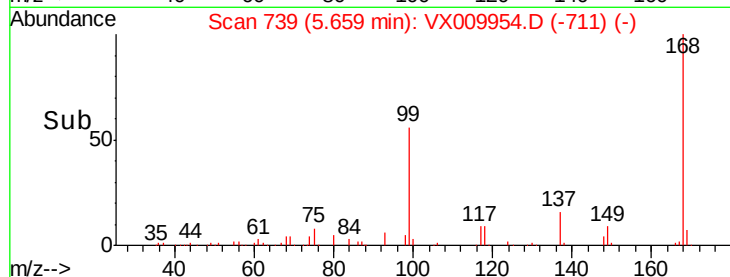
121 0.0 25.4 38.0#



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



#40

Benzene

Concen: 0.208 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.01 min

Lab File: VX009954.D

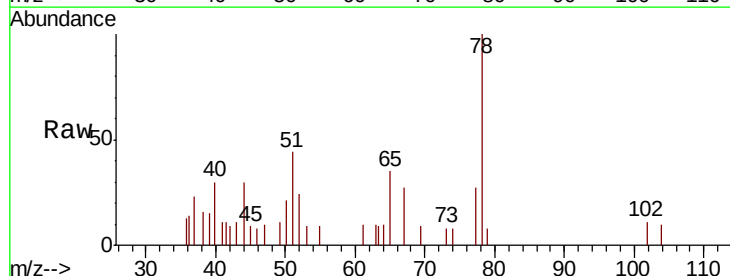
Acq: 30 May 2019 12:44

Tgt Ion: 78 Resp: 1732

Ion Ratio Lower Upper

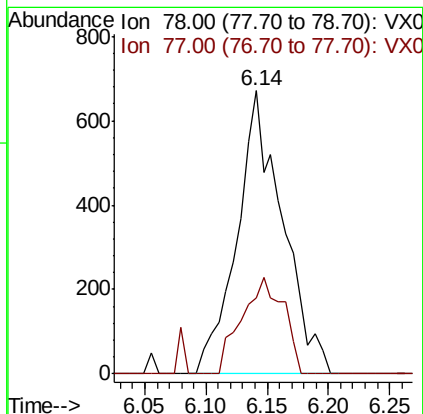
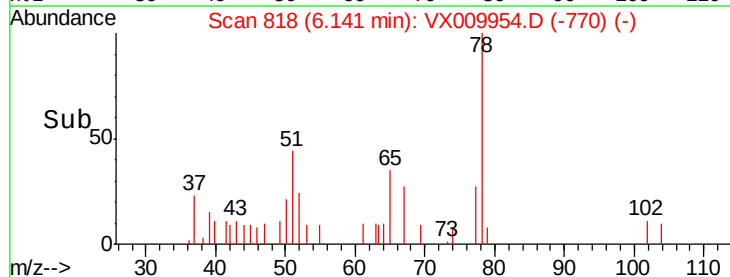
78 100

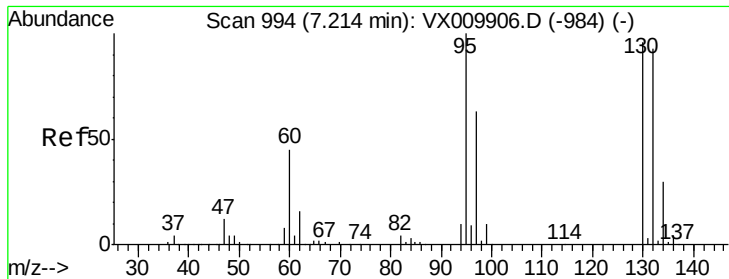
77 26.7 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#44

Trichloroethene

Concen: 0.232 ug/l

RT: 7.23 min Scan# 996

Delta R.T. 0.01 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampled :

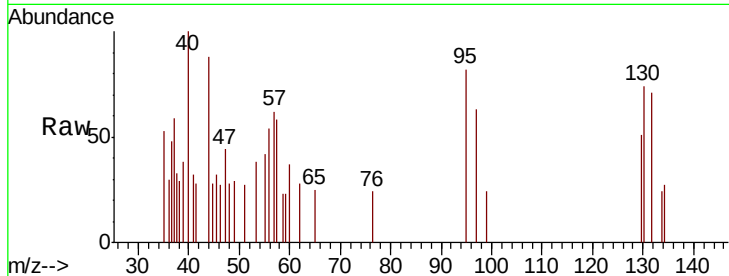
S32-0653

Tot Ion:130 Resp: 469

Ion Ratio Lower Upper

130 100

95 65.8 0.0 207.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.23

300

250

200

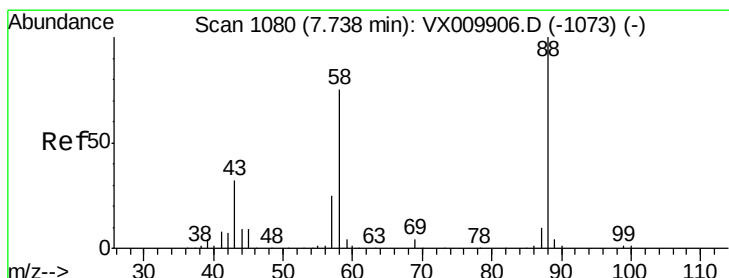
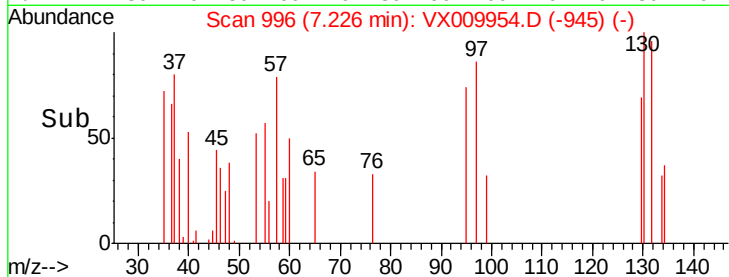
150

100

50

0

Time--> 7.15 7.20 7.25



#49

1,4-Dioxane

Concen: 0.345 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.03 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

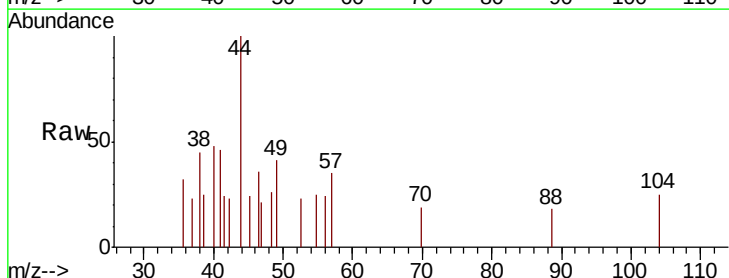
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 600.0 30.2 45.4#

58 115.0 64.0 96.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

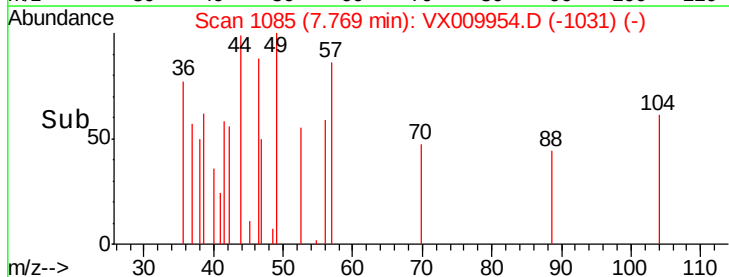
Ion 58.00 (57.70 to 58.70): VX0

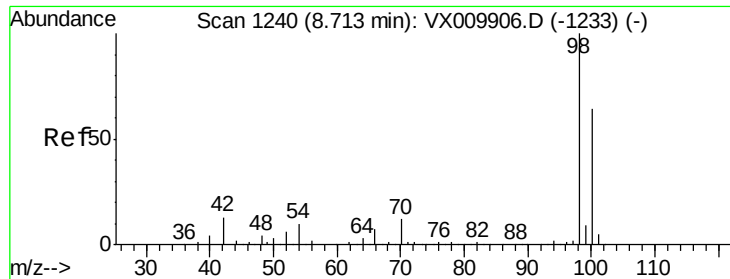
100

50

0

Time--> 7.75 7.76 7.77 7.78





#50

Toluene-d8

Concen: 50.253 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampled :

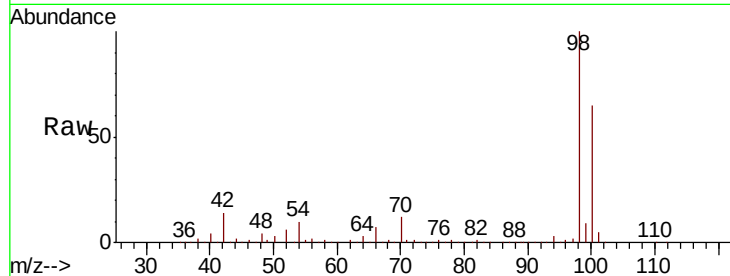
S32-0653

Tot Ion: 98 Resp: 354476

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

100000

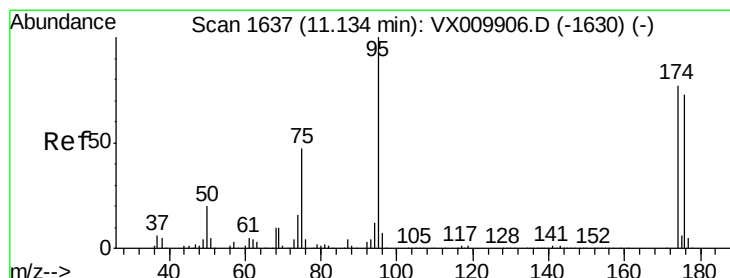
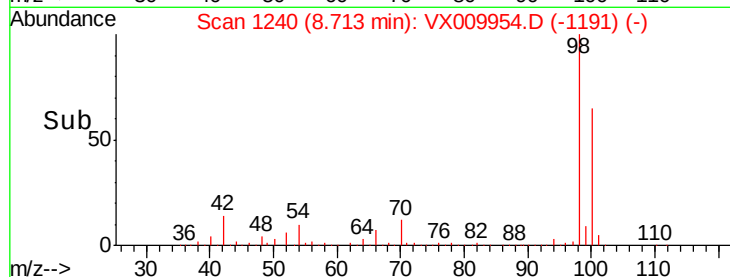
50000

0

8.60 8.70 8.80 8.90

8.71

Time-->



#62

4-Bromofluorobenzene

Concen: 46.925 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

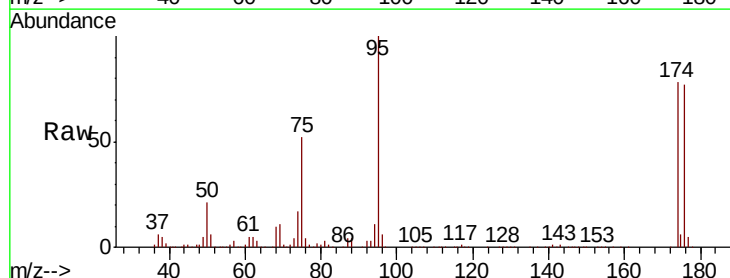
Tgt Ion: 95 Resp: 118888

Ion Ratio Lower Upper

95 100

174 82.4 0.0 160.4

176 80.2 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

60000

40000

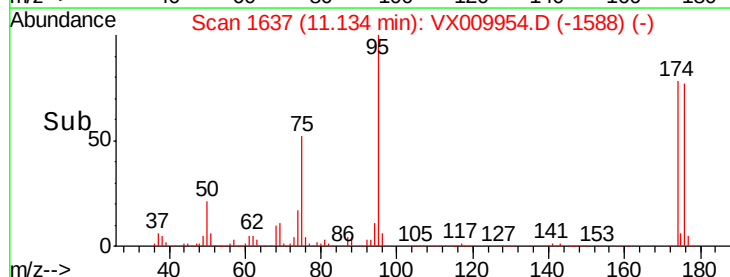
20000

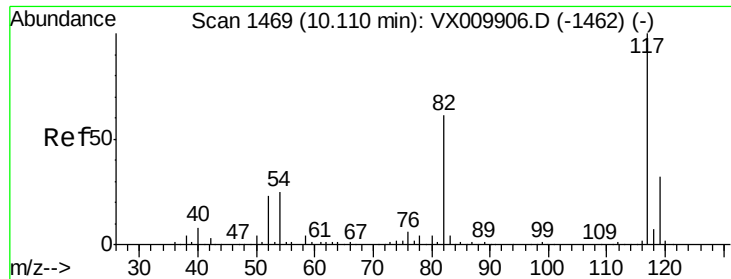
0

11.10 11.20

11.13

Time-->

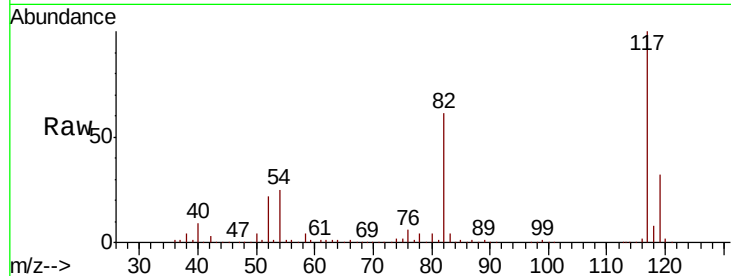




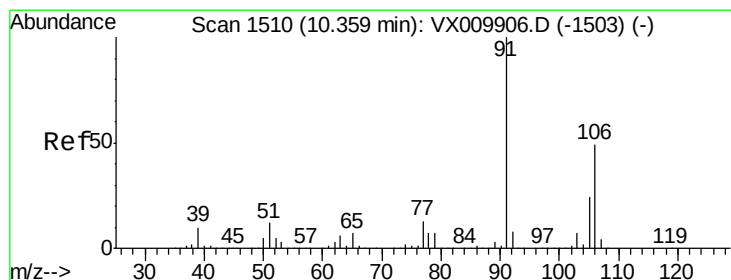
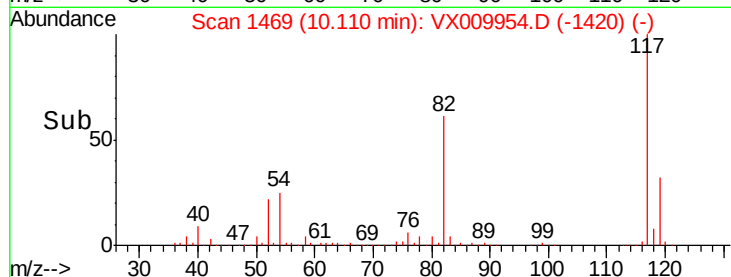
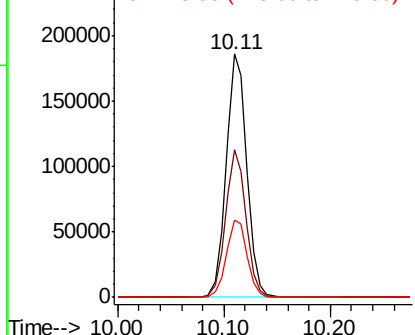
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009954.D
Acq: 30 May 2019 12:44

Instrument :
MSVOA_X
ClientSampled :
S32-0653

Tot Ion:117 Resp: 252233
Ion Ratio Lower Upper
117 100
82 60.9 49.2 73.8
119 31.9 25.2 37.8

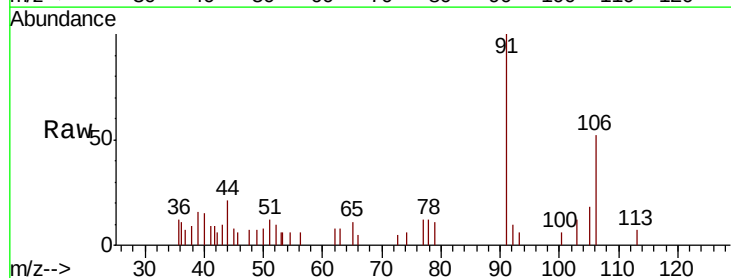


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

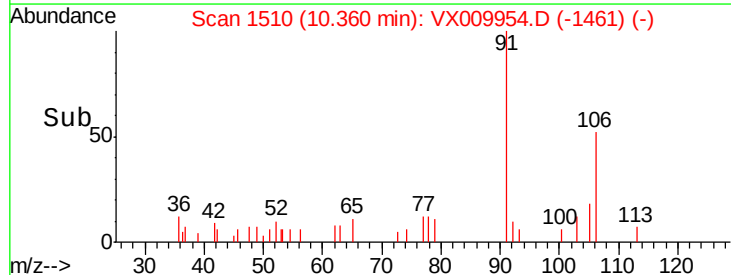
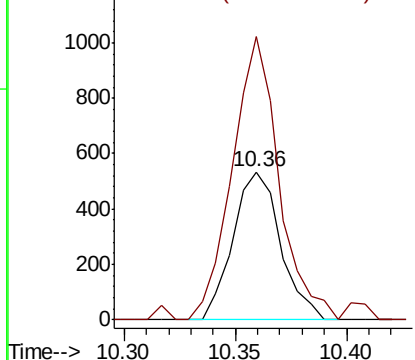


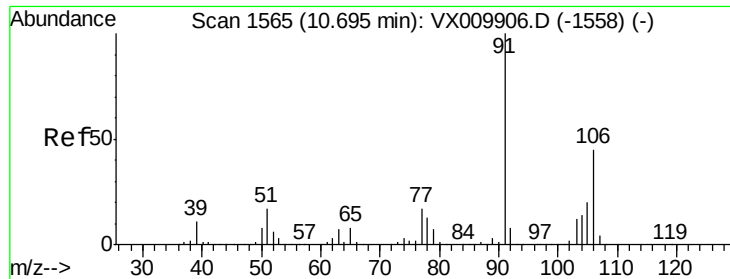
#68
m/p-Xylenes
Concen: 0.226 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX009954.D
Acq: 30 May 2019 12:44

Tgt Ion:106 Resp: 792
Ion Ratio Lower Upper
106 100
91 188.4 167.3 250.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

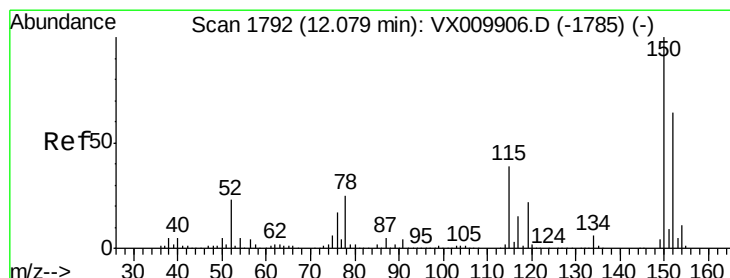
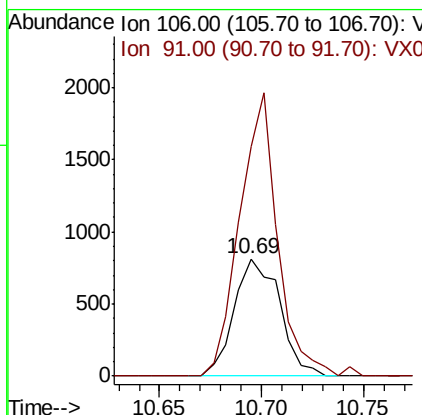
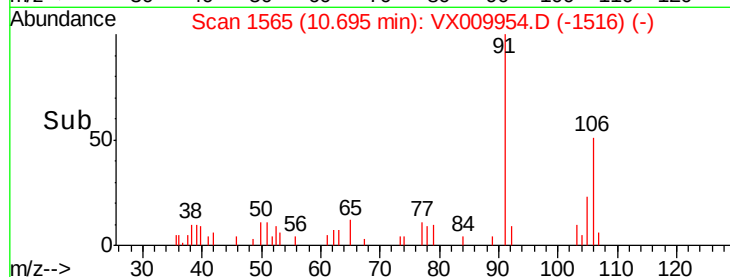
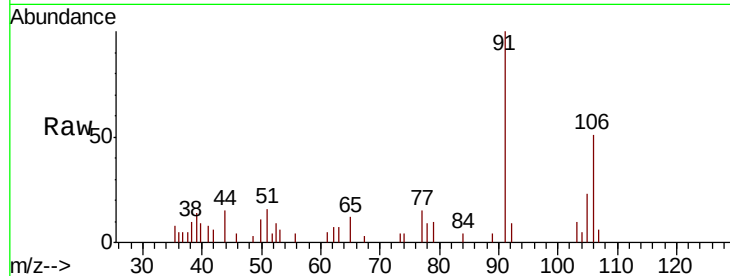




#69
o-Xylene
Concen: 0.375 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX009954.D
Acq: 30 May 2019 12:44

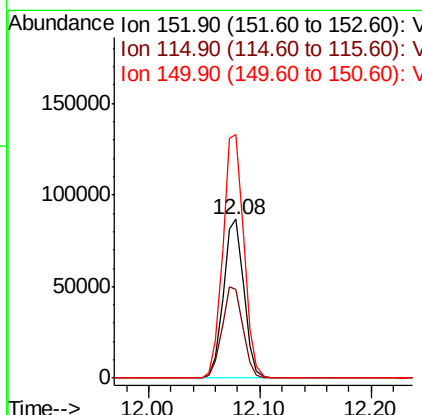
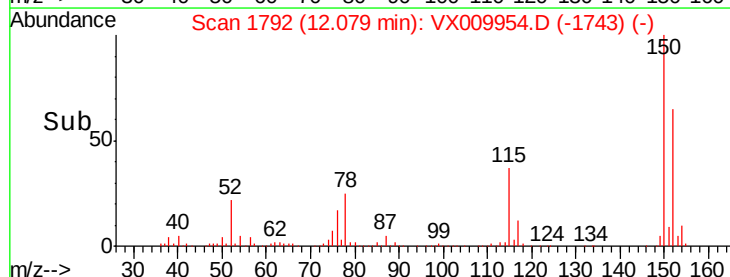
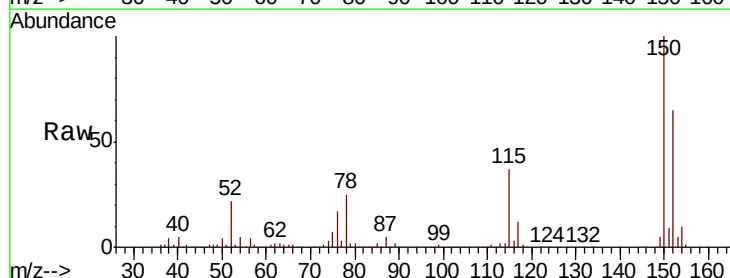
Instrument :
MSVOA_X
ClientSampled :
S32-0653

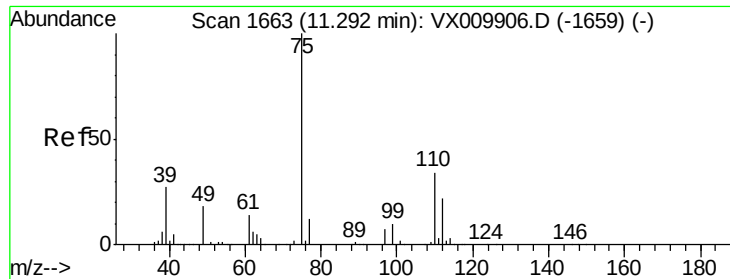
Tot Ion:106 Resp: 1261
Ion Ratio Lower Upper
106 100
91 201.8 110.4 331.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009954.D
Acq: 30 May 2019 12:44

Tgt Ion:152 Resp: 109660
Ion Ratio Lower Upper
152 100
115 59.0 41.4 124.2
150 157.8 0.0 345.2

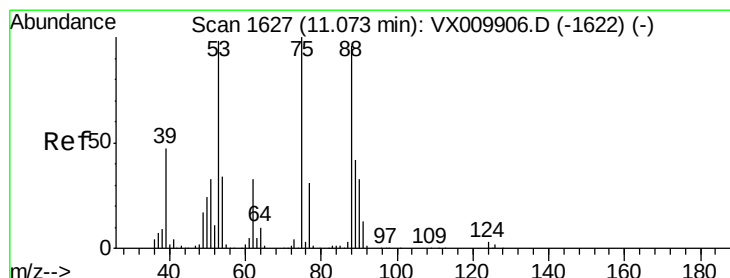
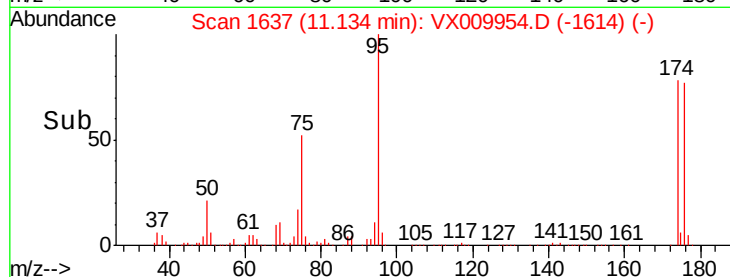
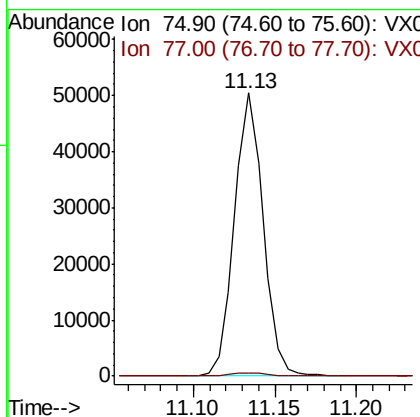
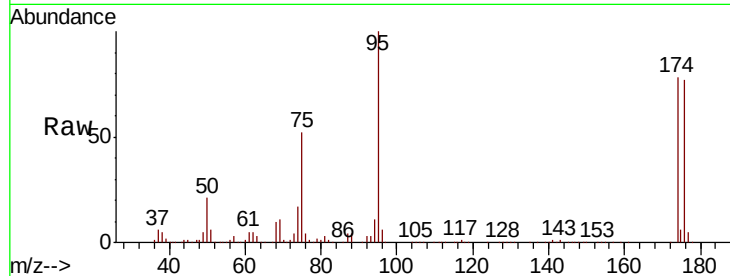




#76
 1,2,3-Trichloropropane
 Concen: 23.689 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009954.D
 Acq: 30 May 2019 12:44

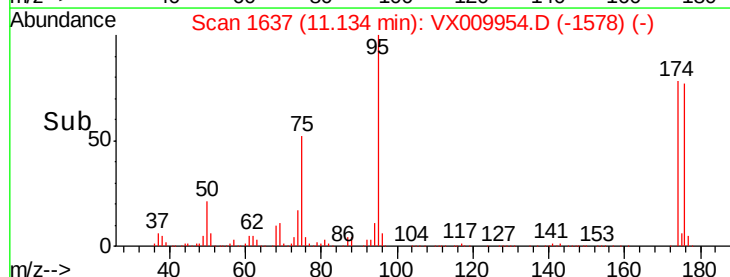
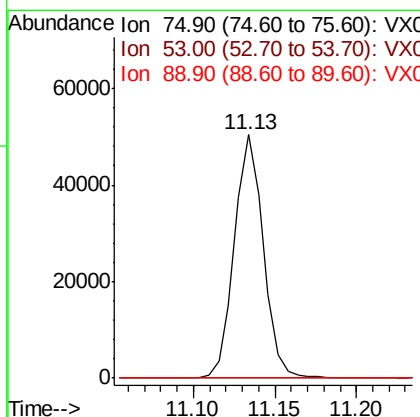
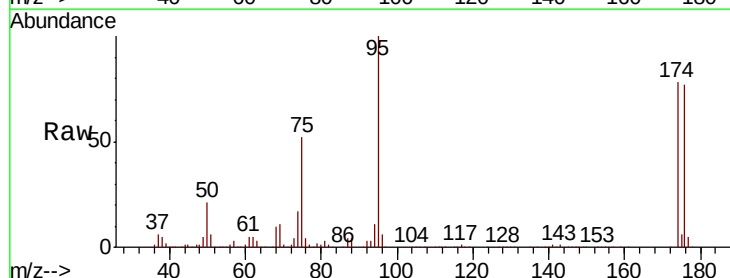
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0653

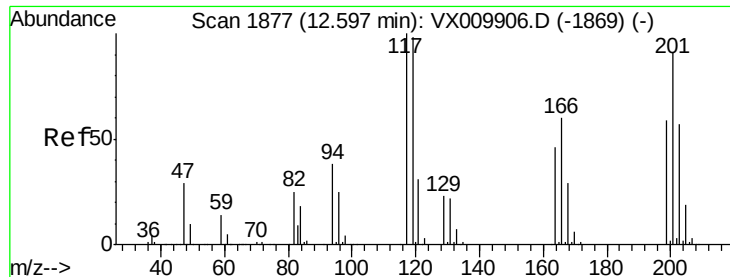
Tot Ion: 75 Resp: 62120
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.610 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009954.D
 Acq: 30 May 2019 12:44

Tgt Ion: 75 Resp: 62120
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.8 119.6#
 89 0.0 34.2 51.4#





#90

Hexachloroethane

Concen: 0.207 ug/l

RT: 12.69 min Scan# 1893

Delta R.T. 0.10 min

Lab File: VX009954.D

Acq: 30 May 2019 12:44

Instrument :

MSVOA_X

ClientSampleId :

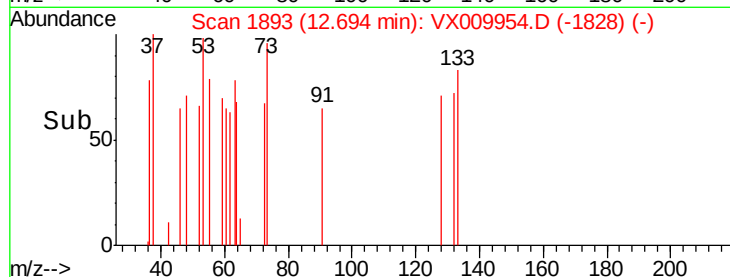
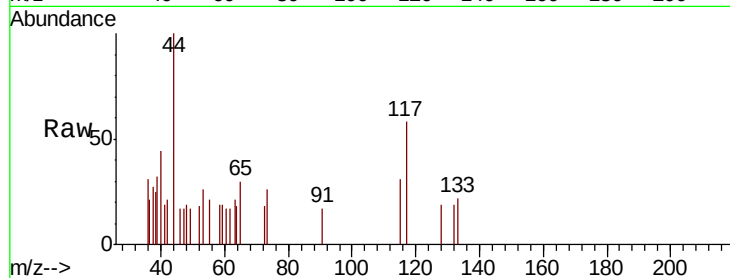
S32-0653

Tot Ion:117 Resp: 248

Ion Ratio Lower Upper

117 100

201 0.0 43.6 130.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

