

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080119\
 Data File : VX011270.D
 Acq On : 01 Aug 2019 20:07
 Operator : JC/SP
 Sample : K4118-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20190730

Quant Time: Aug 02 02:07:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	142736	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	230655	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	215859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	98689	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	74264	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
35) Dibromofluoromethane	5.49	113	71922	47.76	ug/l	0.00
Spiked Amount			Recovery	=	95.52%	
50) Toluene-d8	8.71	98	274676	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
62) 4-Bromofluorobenzene	11.13	95	92100	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	

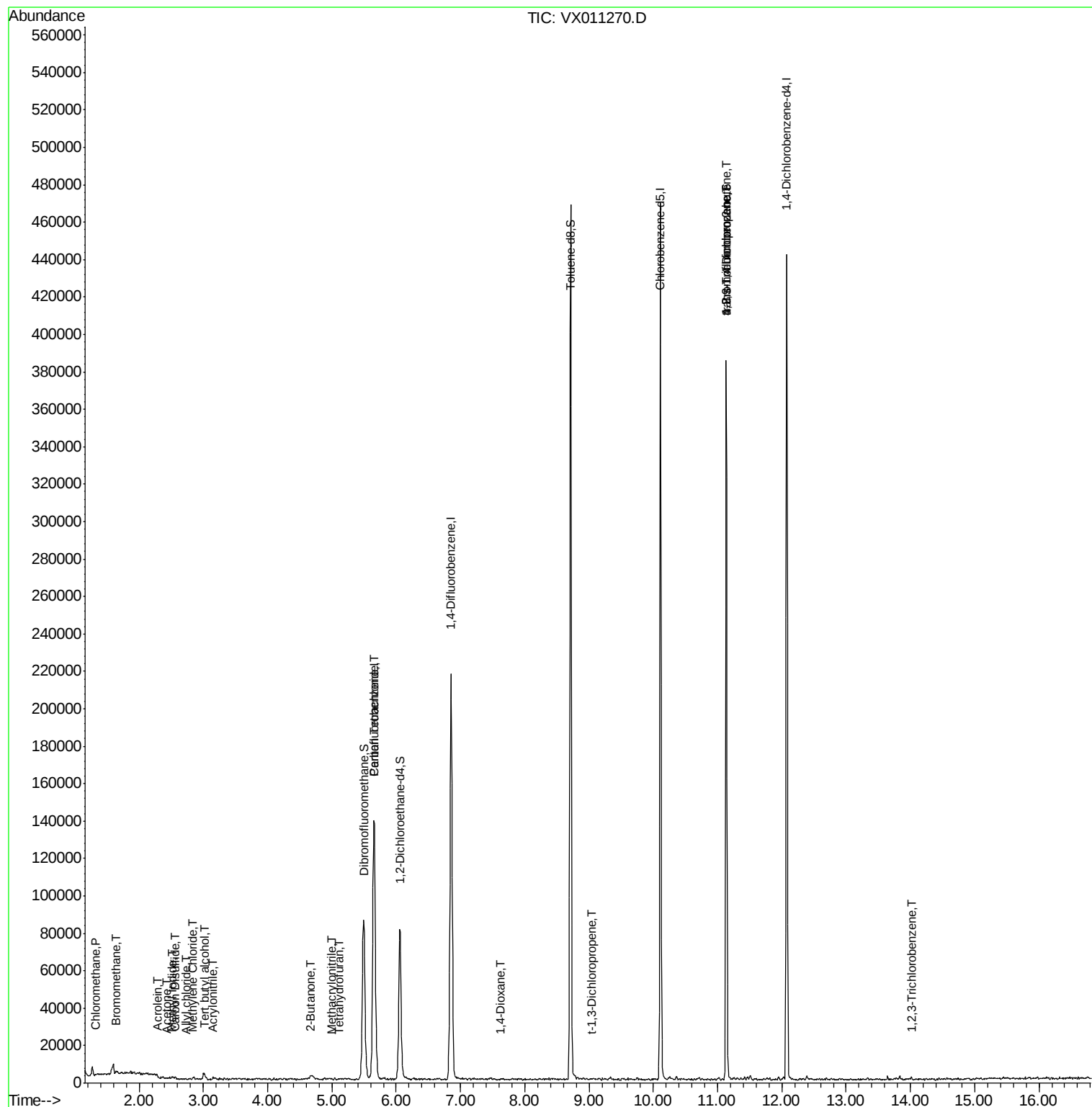
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	280	0.226	ug/l #	66
5) Bromomethane	1.64	94	965	0.994	ug/l #	49
6) Chloroethane	1.70	64	170	Below Cal	#	82
10) Methyl Iodide	2.51	142	992	0.601	ug/l #	91
11) Tert butyl alcohol	3.01	59	2143	7.499	ug/l #	75
13) Acrolein	2.29	56	224	0.837	ug/l	92
14) Allyl chloride	2.73	41	525	0.303	ug/l #	52
15) Acrylonitrile	3.14	53	391	0.572	ug/l #	71
16) Acetone	2.43	43	522	0.763	ug/l #	85
17) Carbon Disulfide	2.56	76	1382	0.453	ug/l	100
20) Methylene Chloride	2.84	84	383	0.256	ug/l #	35
25) 2-Butanone	4.68	43	307	0.315	ug/l #	46
29) Tetrahydrofuran	5.12	42	337	0.565	ug/l #	33
38) Carbon Tetrachloride	5.65	117	13178	6.504	ug/l #	15
41) Methacrylonitrile	5.00	41	226	0.205	ug/l #	42
49) 1,4-Dioxane	7.63	88	24	0.545	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	206	2.925	ug/l #	43
76) 1,2,3-Trichloropropane	11.13	75	44981	25.028	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	44981	65.307	ug/l #	10
96) 1,2,3-Trichlorobenzene	14.01	180	491	0.219	ug/l	82

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

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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

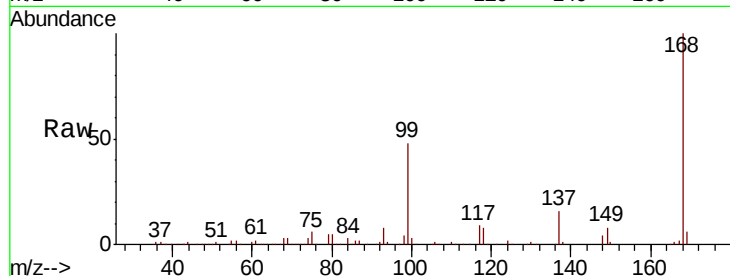
TB-20190730

Tot Ion:168 Resp: 142736

Ion Ratio Lower Upper

168 100

99 47.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

50000

40000

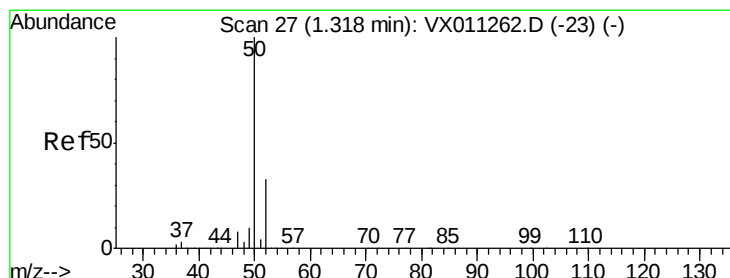
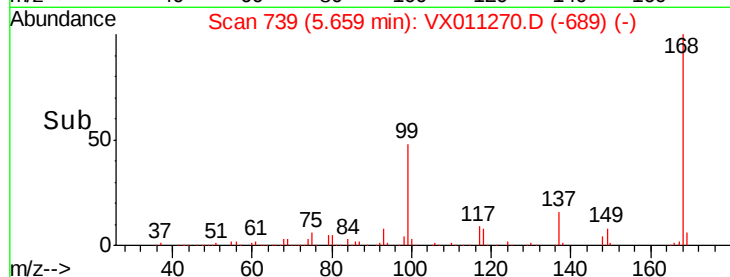
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.226 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX011270.D

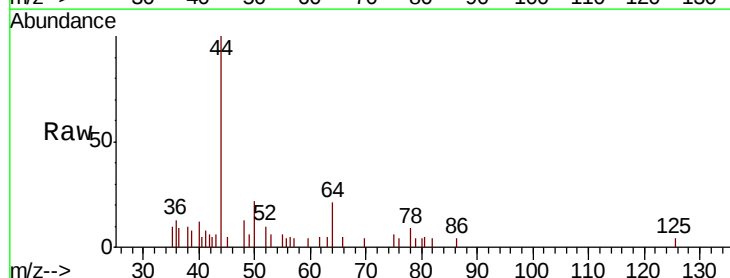
Acq: 01 Aug 2019 20:07

Tgt Ion: 50 Resp: 280

Ion Ratio Lower Upper

50 100

52 52.5 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

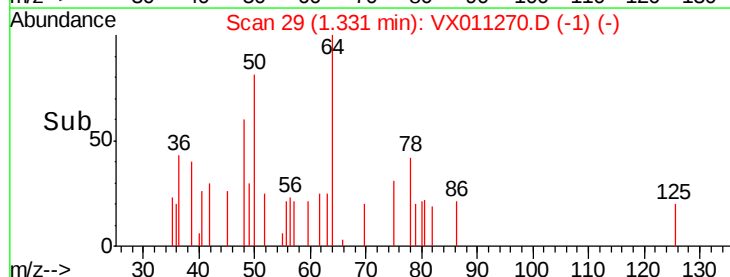
300

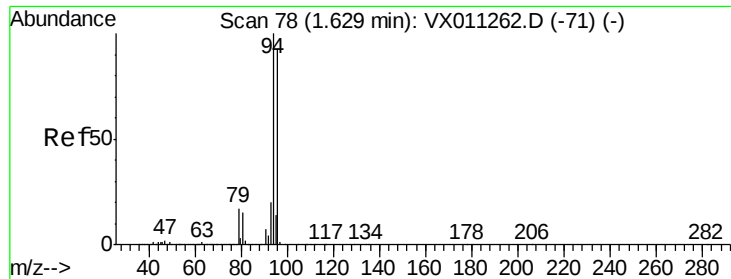
200

100

0

Time--> 1.28 1.30 1.32 1.34





#5

Bromomethane

Concen: 0.994 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

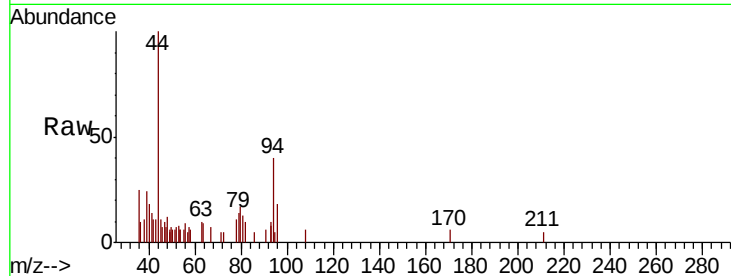
TB-20190730

Tot Ion: 94 Resp: 965

Ion Ratio Lower Upper

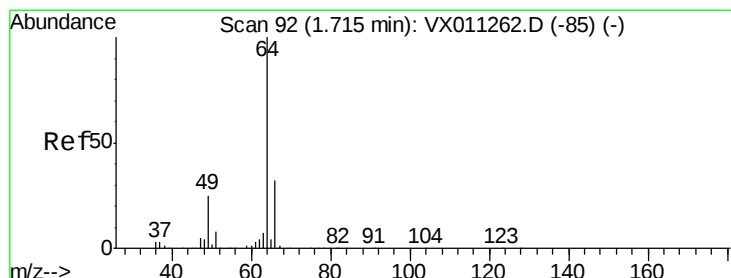
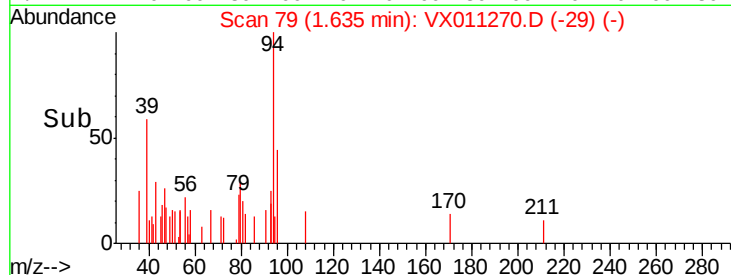
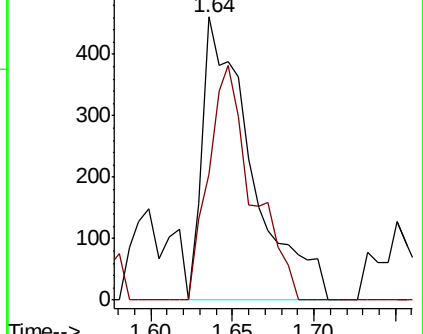
94 100

96 44.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011270.D

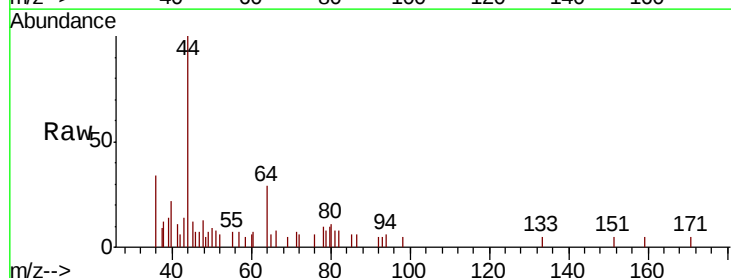
Acq: 01 Aug 2019 20:07

Tgt Ion: 64 Resp: 170

Ion Ratio Lower Upper

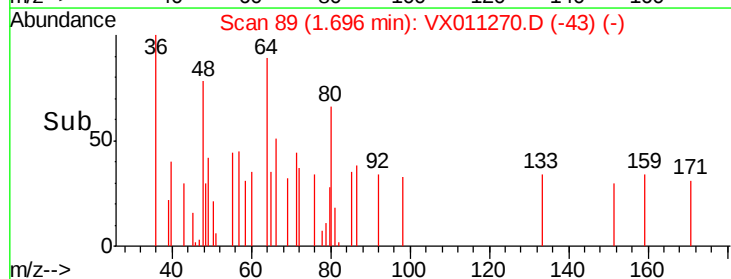
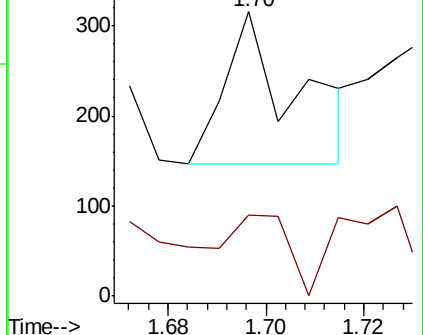
64 100

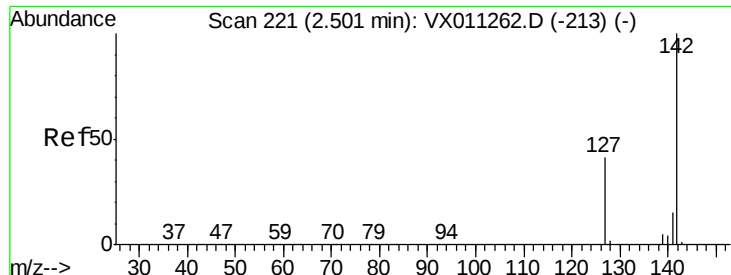
66 21.2 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

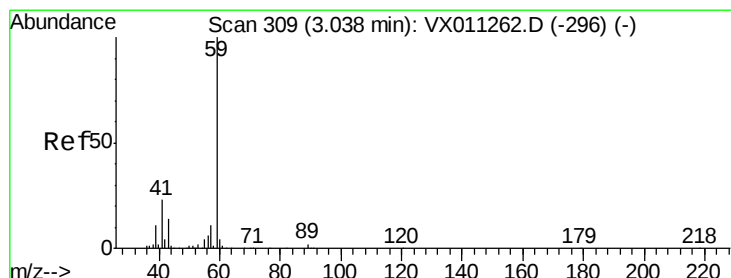
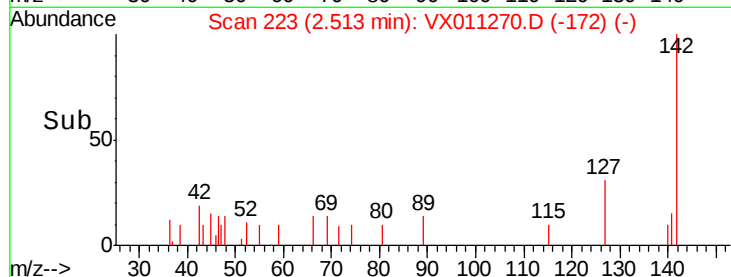
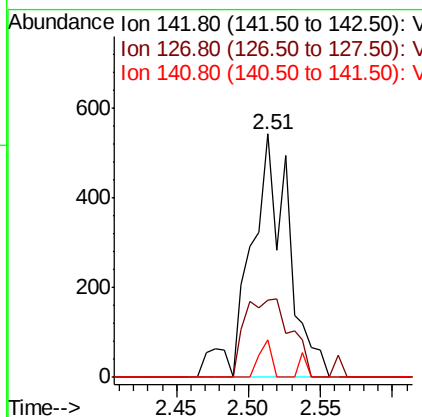
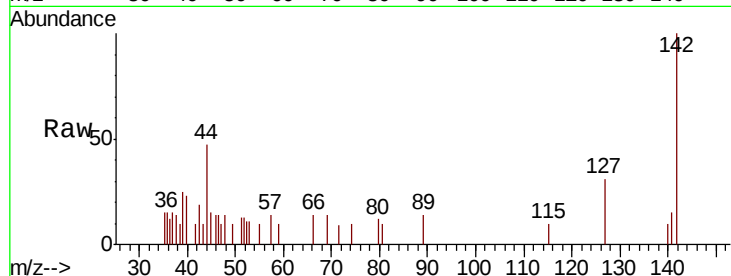




#10
Methvl Iodide
Concen: 0.601 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX011270.D
Acq: 01 Aug 2019 20:07

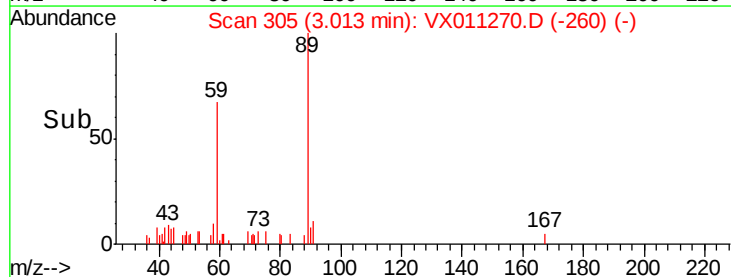
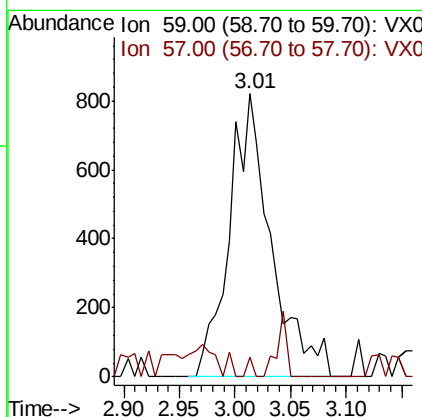
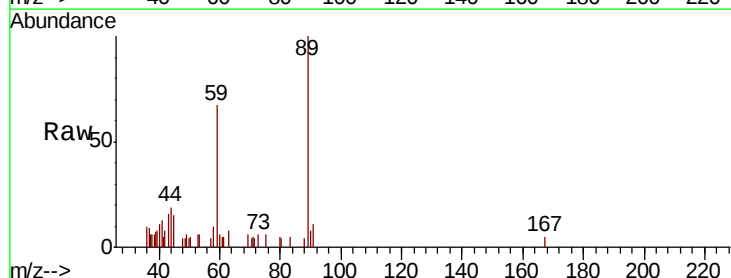
Instrument :
MSVOA_X
ClientSampleId :
TB-20190730

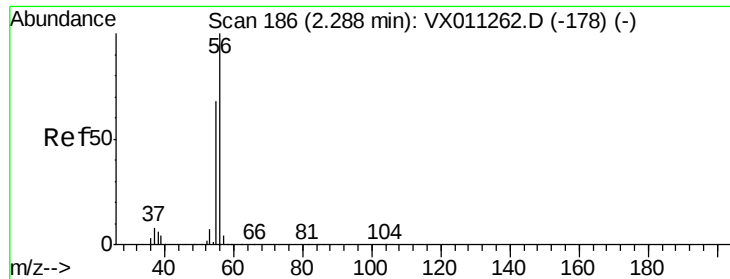
Tot Ion:142 Resp: 992
Ion Ratio Lower Upper
142 100
127 39.2 33.8 50.8
141 4.9 11.4 17.2#



#11
Tert butyl alcohol
Concen: 7.499 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011270.D
Acq: 01 Aug 2019 20:07

Tgt Ion: 59 Resp: 2143
Ion Ratio Lower Upper
59 100
57 0.9 8.3 12.5#

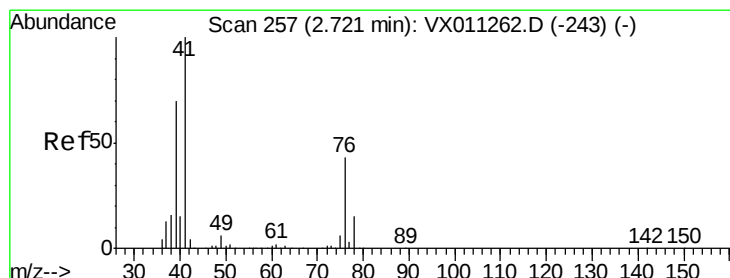
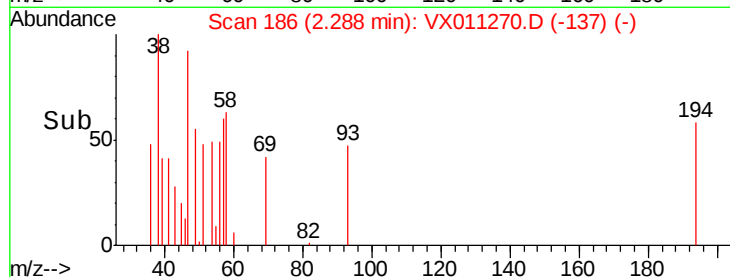
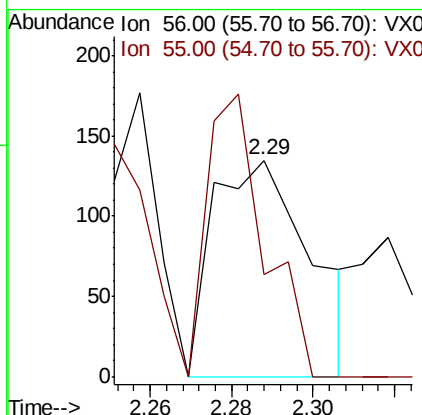
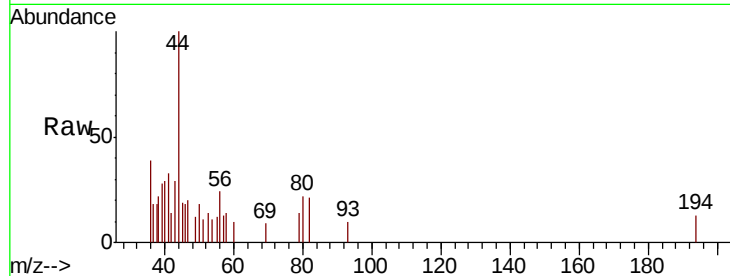




#13
Acrolein
Concen: 0.837 ug/l
RT: 2.29 min Scan# 186
Delta R.T. 0.00 min
Lab File: VX011270.D
Acq: 01 Aug 2019 20:07

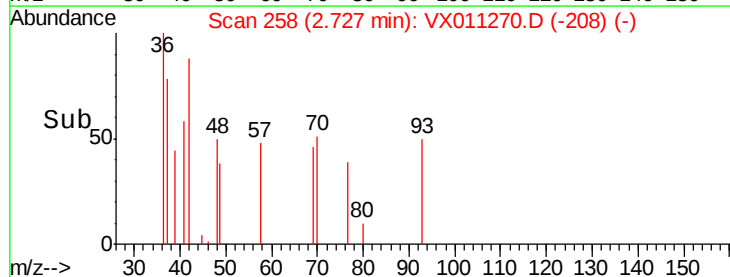
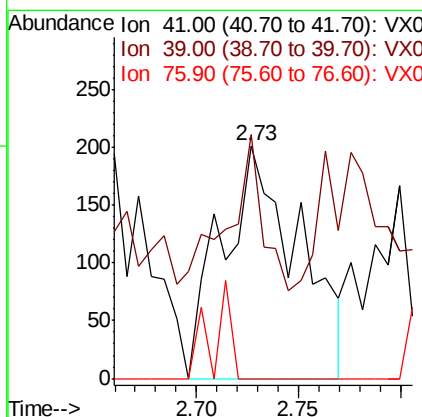
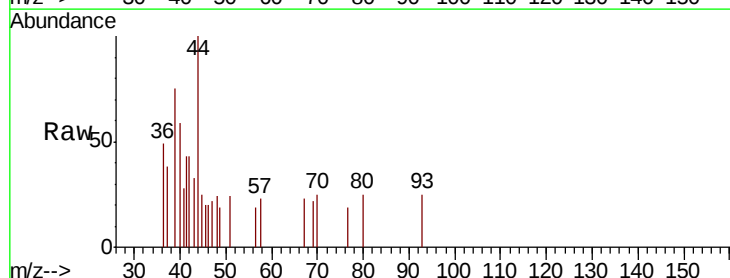
Instrument :
MSVOA_X
ClientSampled :
TB-20190730

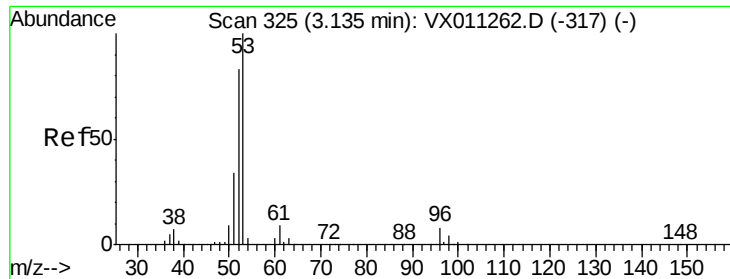
Tot Ion: 56 Resp: 224
Ion Ratio Lower Upper
56 100
55 76.8 56.0 84.0



#14
Allyl chloride
Concen: 0.303 ug/l
RT: 2.73 min Scan# 258
Delta R.T. 0.01 min
Lab File: VX011270.D
Acq: 01 Aug 2019 20:07

Tgt Ion: 41 Resp: 525
Ion Ratio Lower Upper
41 100
39 35.4 52.8 79.2#
76 0.0 31.1 46.7#





#15

Acrylonitrile

Concen: 0.572 ug/l

RT: 3.14 min Scan# 326

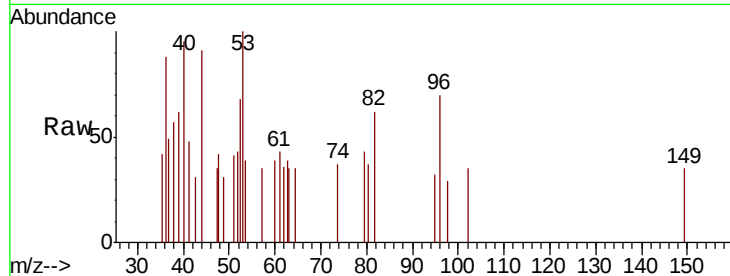
Delta R.T. 0.01 min

Lab File: VX011270.D

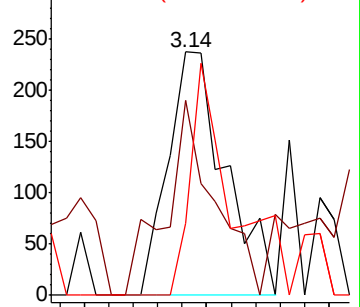
Acq: 01 Aug 2019 20:07

Instrument :
MSVOA_X
ClientSampled :
TB-20190730

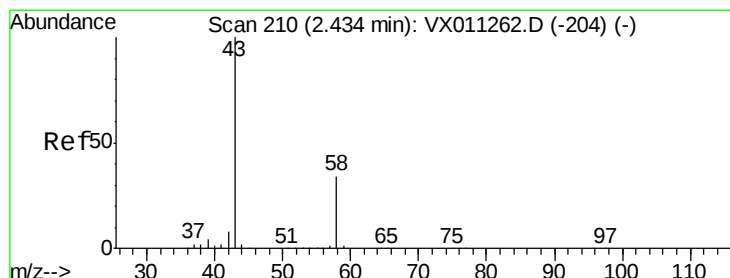
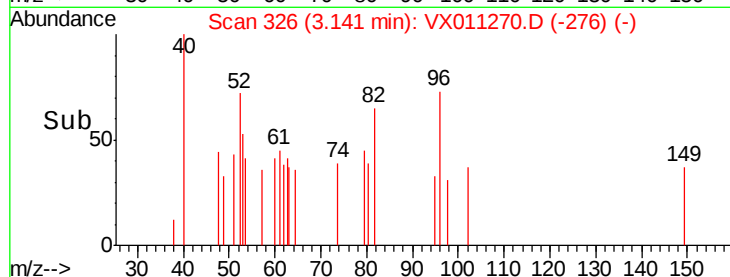
Tot Ion:	53	Resp:	391
Ion	Ratio	Lower	Upper
53	100		
52	67.5	65.5	98.3
51	68.5	27.9	41.9#



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: 0.763 ug/l

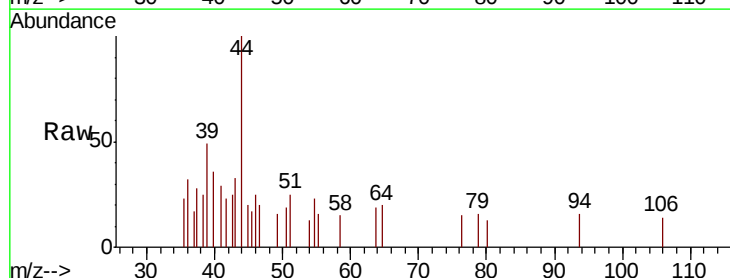
RT: 2.43 min Scan# 209

Delta R.T. -0.01 min

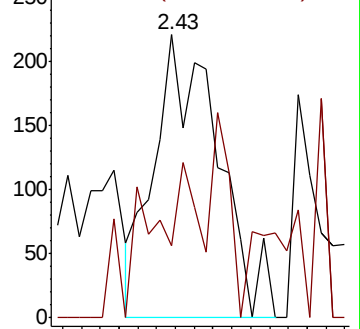
Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

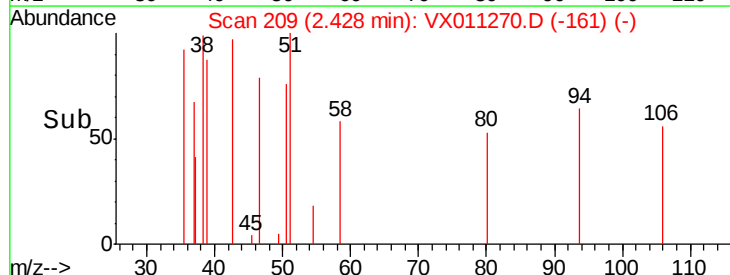
Tgt Ion:	43	Resp:	522
Ion	Ratio	Lower	Upper
43	100		
58	25.3	27.4	41.0#

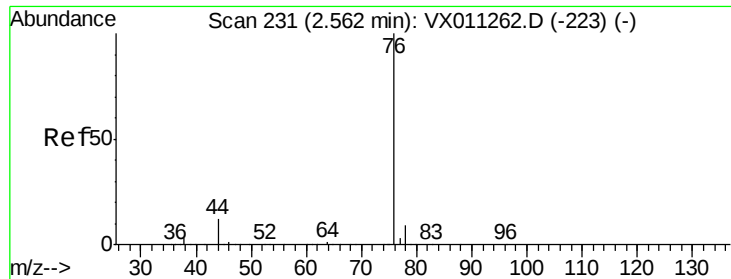


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



Time-->

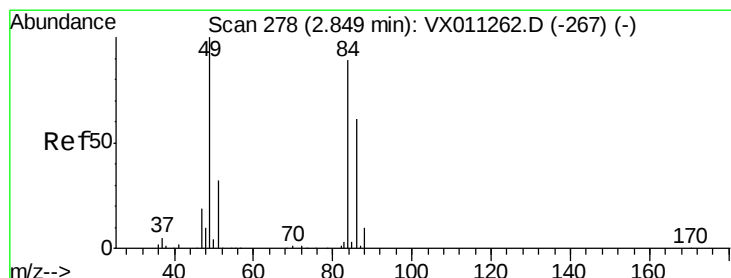
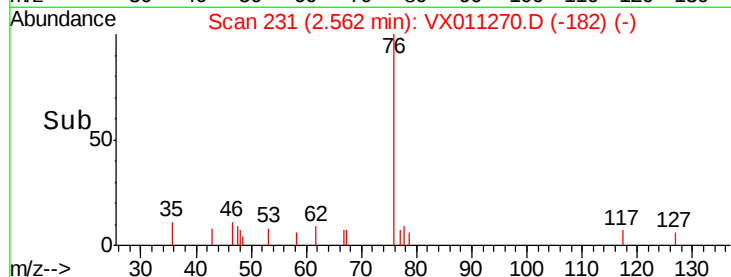
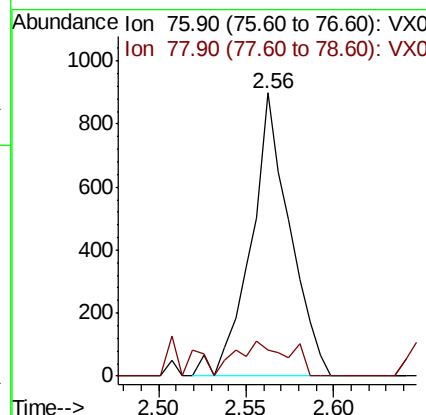
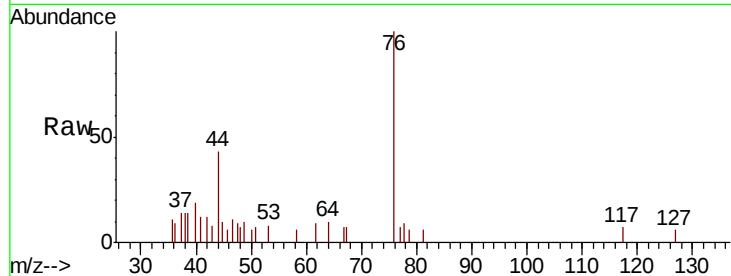




#17
Carbon Disulfide
Concen: 0.453 ug/l
RT: 2.56 min Scan# 231
Delta R.T. 0.00 min
Lab File: VX011270.D
Acq: 01 Aug 2019 20:07

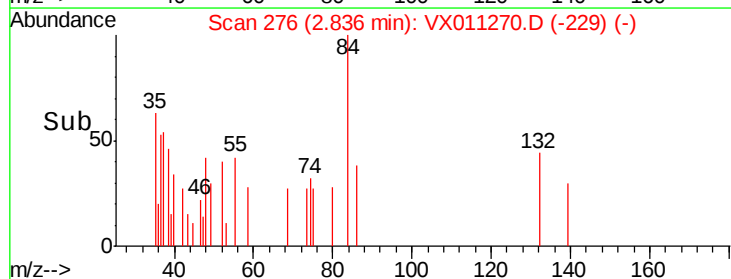
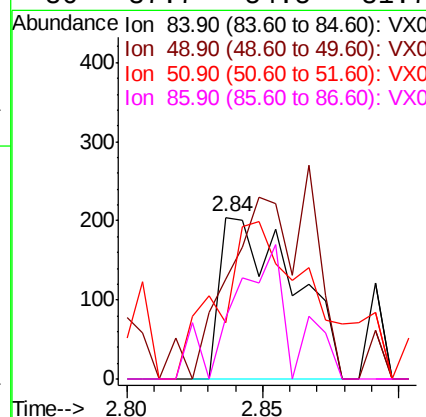
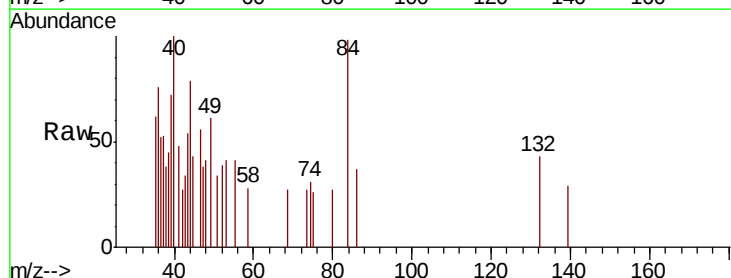
Instrument :
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TB-20190730

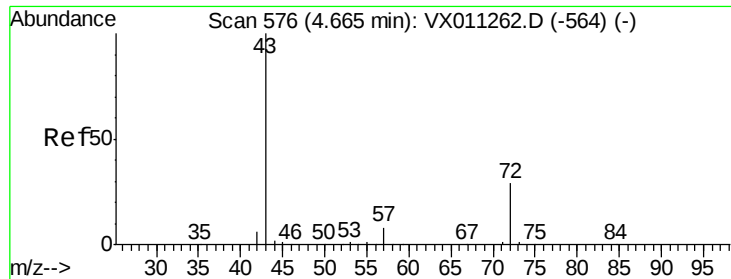
Tot Ion: 76 Resp: 1382
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0



#20
Methylene Chloride
Concen: 0.256 ug/l
RT: 2.84 min Scan# 276
Delta R.T. -0.01 min
Lab File: VX011270.D
Acq: 01 Aug 2019 20:07

Tgt Ion: 84 Resp: 383
Ion Ratio Lower Upper
84 100
49 23.0 89.3 133.9#
51 1.0 28.3 42.5#
86 37.7 54.5 81.7#





#25

2-Butanone

Concen: 0.315 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

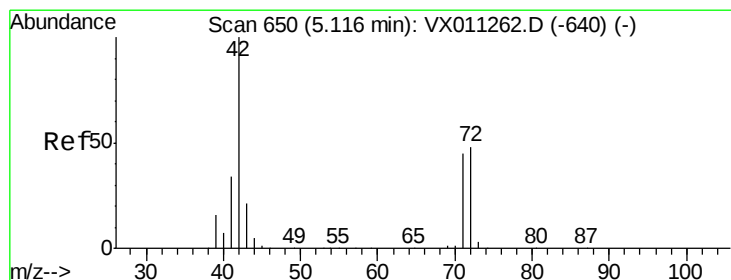
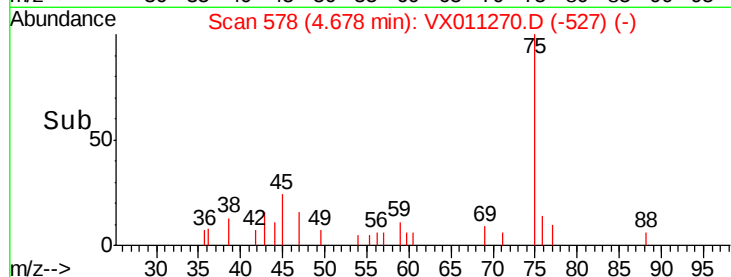
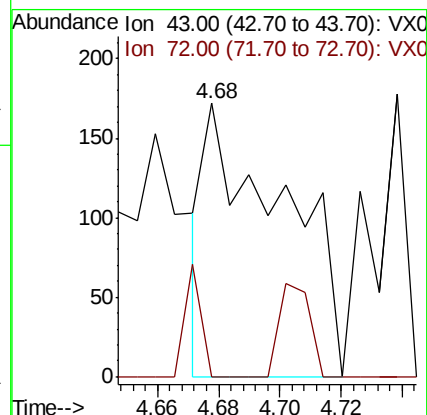
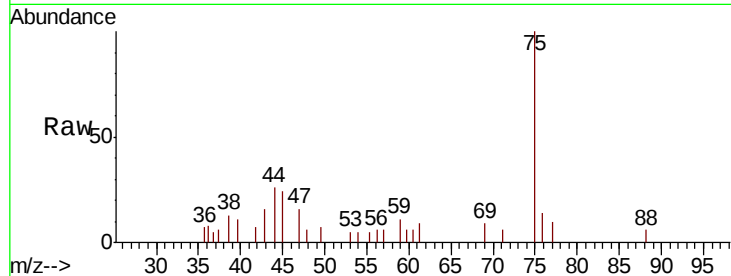
TB-20190730

Tot Ion: 43 Resp: 307

Ion Ratio Lower Upper

43 100

72 0.0 23.2 34.8#



#29

Tetrahydrofuran

Concen: 0.565 ug/l

RT: 5.12 min Scan# 651

Delta R.T. 0.01 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

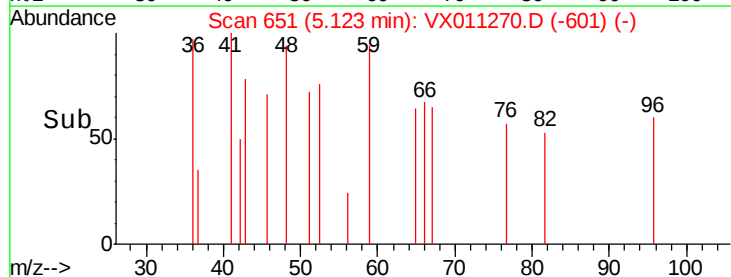
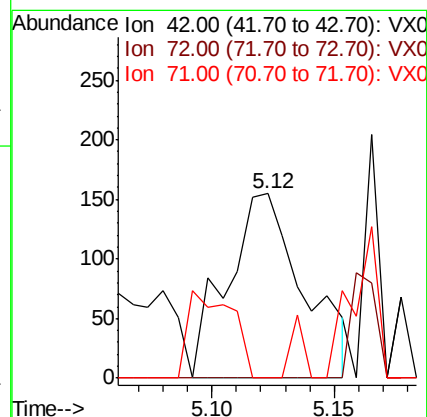
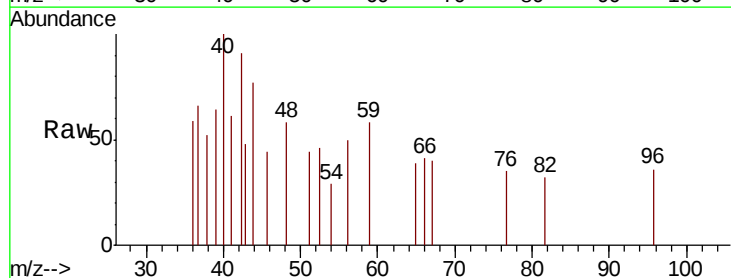
Tgt Ion: 42 Resp: 337

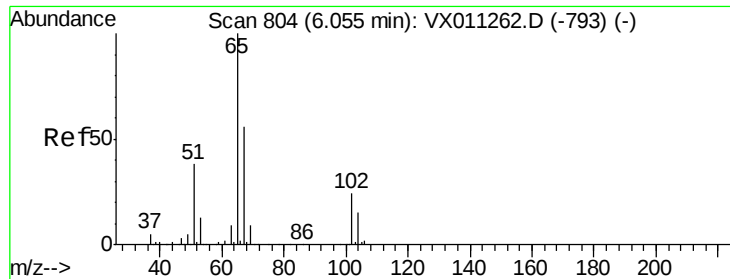
Ion Ratio Lower Upper

42 100

72 0.0 39.9 59.9#

71 5.6 36.9 55.3#





#33

1,2-Dichloroethane-d4

Concen: 51.664 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

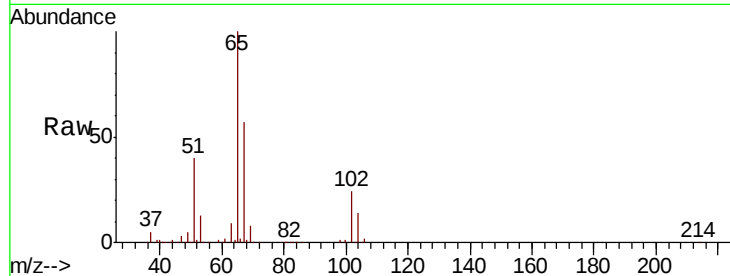
TB-20190730

Tot Ion: 65 Resp: 74264

Ion Ratio Lower Upper

65 100

67 54.7 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

30000

25000

20000

15000

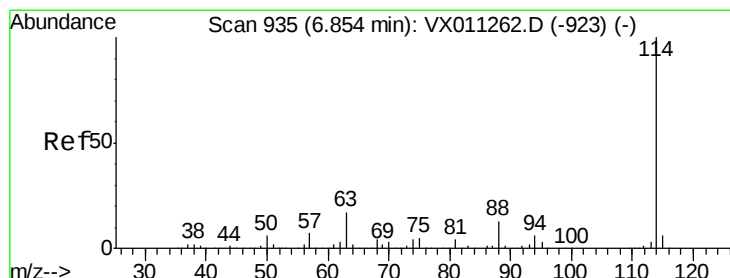
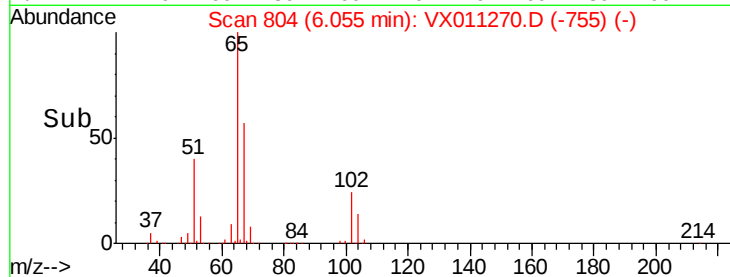
10000

5000

0

6.00 6.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

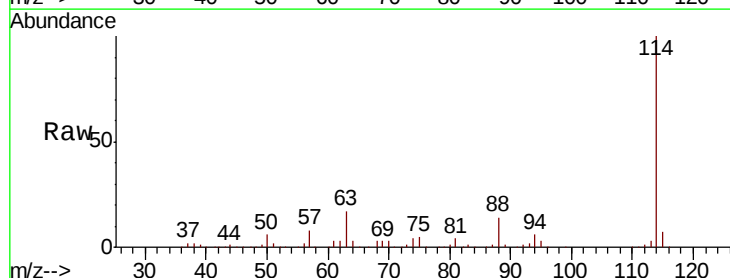
Tgt Ion: 114 Resp: 230655

Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.0

88 14.3 0.0 26.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

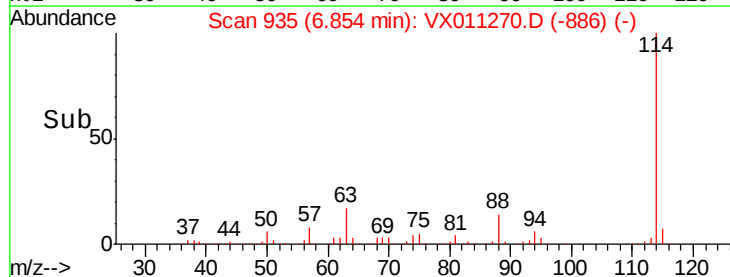
100000

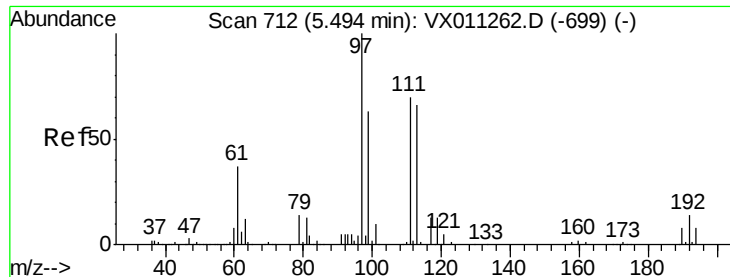
50000

0

6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 47.760 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

TB-20190730

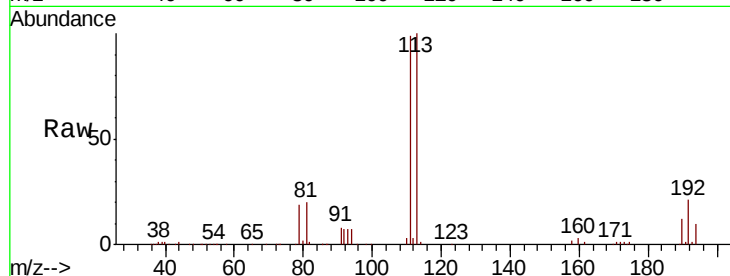
Tot Ion:113 Resp: 71922

Ion Ratio Lower Upper

113 100

111 101.8 81.9 122.9

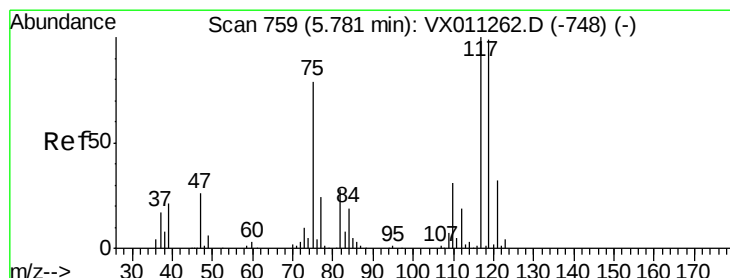
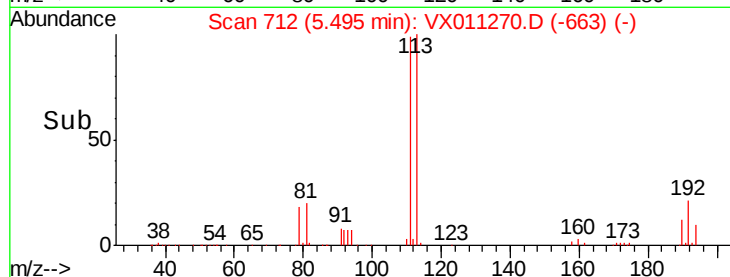
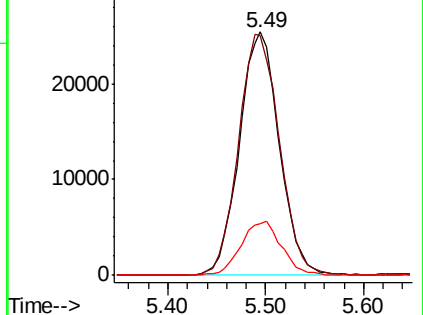
192 22.5 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#38

Carbon Tetrachloride

Concen: 6.504 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

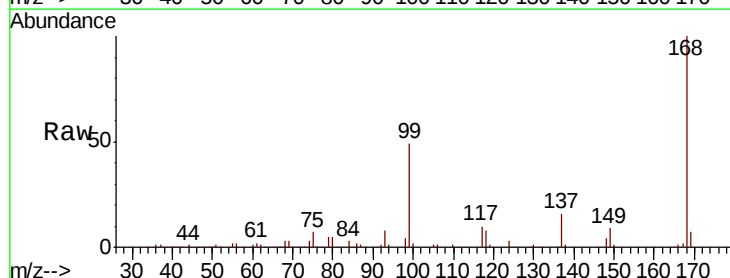
Tgt Ion:117 Resp: 13178

Ion Ratio Lower Upper

117 100

119 5.5 79.0 118.4#

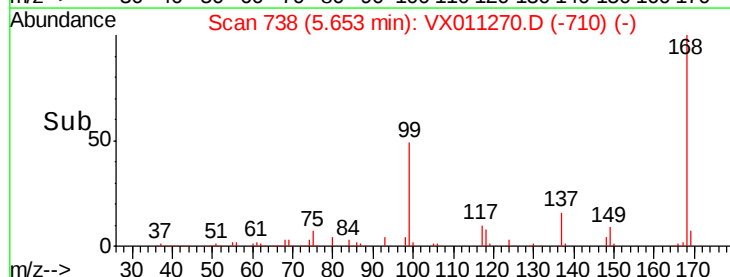
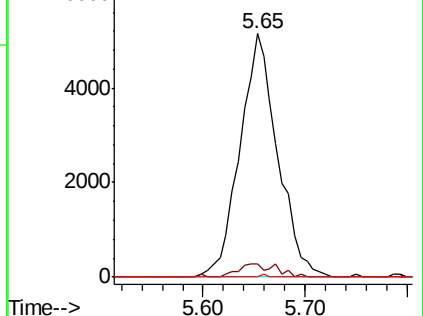
121 0.0 25.9 38.9#

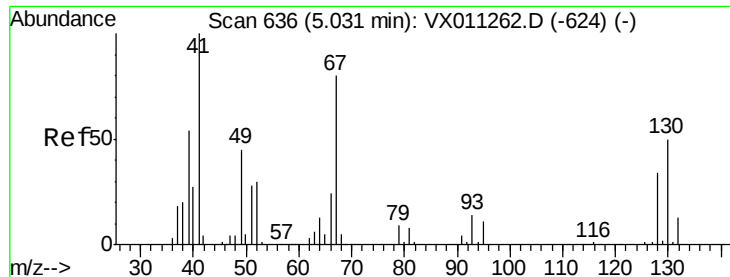


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.205 ug/l

RT: 5.00 min Scan# 631

Delta R.T. -0.03 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :
MSVOA_X
ClientSampled :
TB-20190730

Tot Ion: 41 Resp: 226

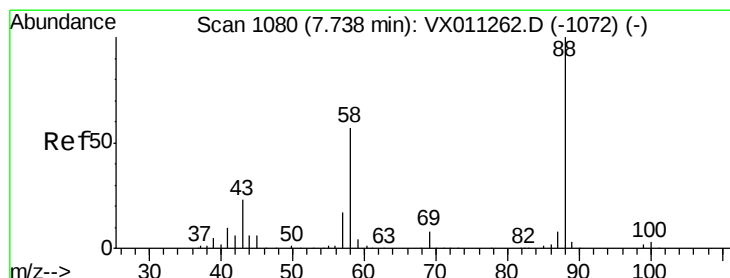
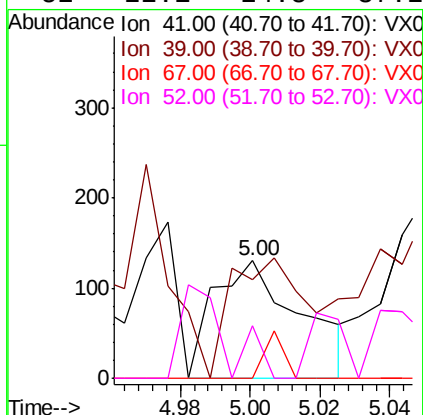
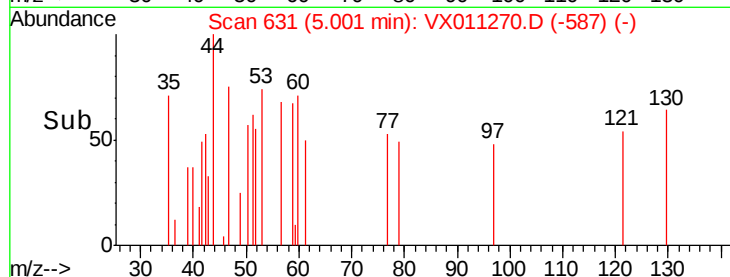
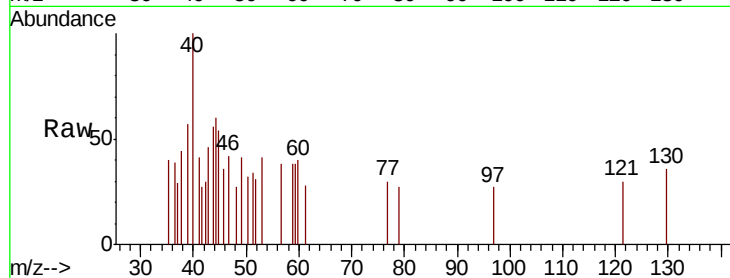
Ion Ratio Lower Upper

41 100

39 86.3 43.0 64.6#

67 8.4 65.1 97.7#

52 22.1 24.8 37.2#



#49

1,4-Dioxane

Concen: 0.545 ug/l

RT: 7.63 min Scan# 1063

Delta R.T. -0.10 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

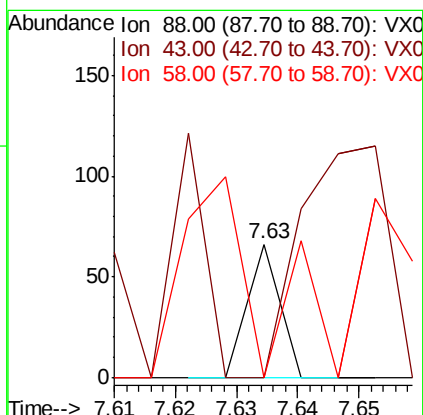
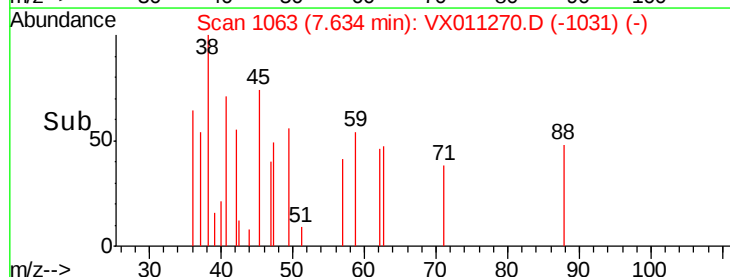
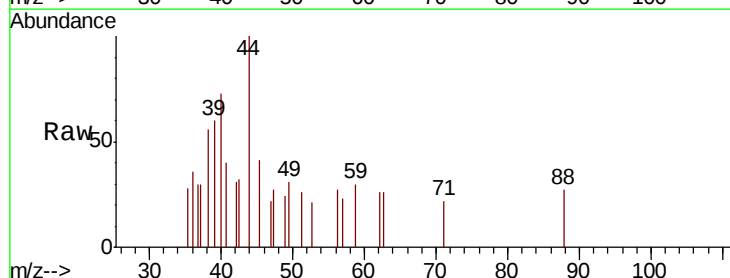
Tgt Ion: 88 Resp: 24

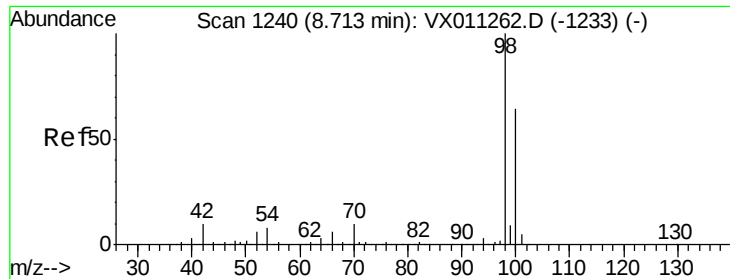
Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.2#

58 270.8 47.8 71.8#





#50

Toluene-d8

Concen: 48.322 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

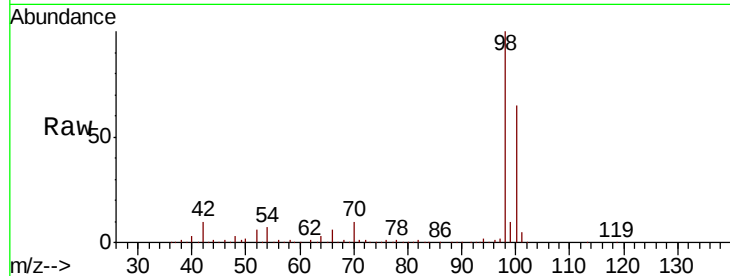
TB-20190730

Tot Ion: 98 Resp: 274676

Ion Ratio Lower Upper

98 100

100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

200000

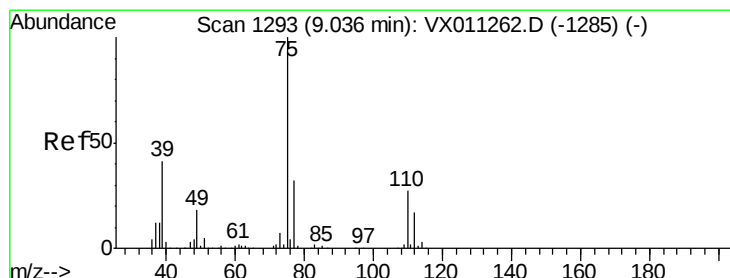
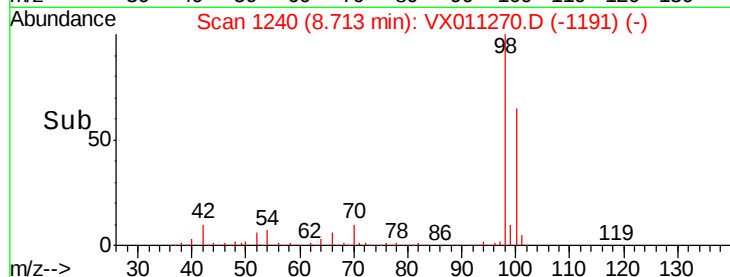
150000

100000

50000

0

Time--> 8.60 8.65 8.70 8.75 8.80



#53

t-1,3-Dichloropropene

Concen: 2.925 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX011270.D

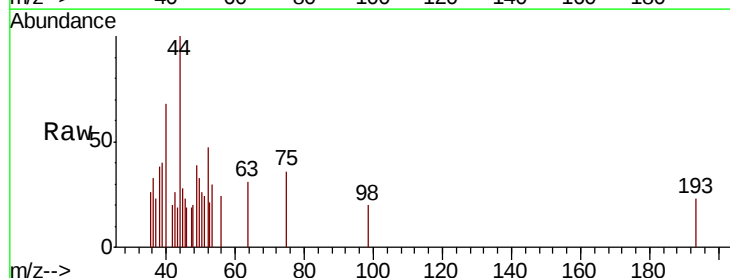
Acq: 01 Aug 2019 20:07

Tgt Ion: 75 Resp: 206

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

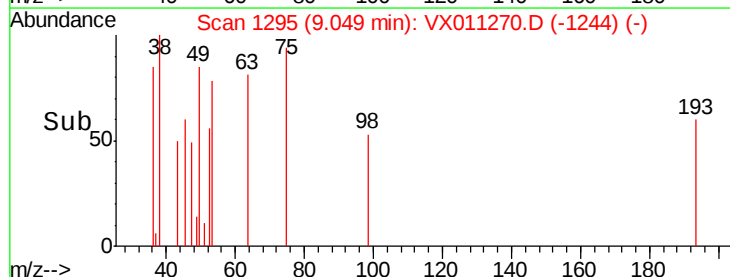
9.05

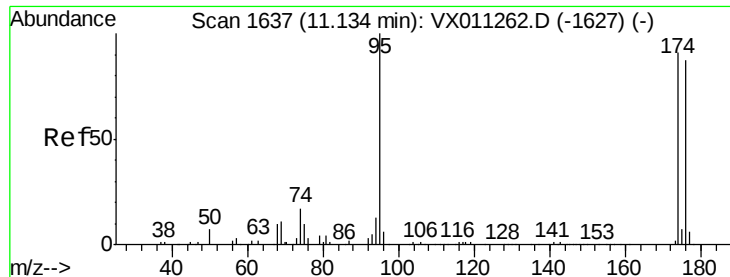
100

50

0

Time--> 9.00 9.05 9.10





#62

4-Bromofluorobenzene

Concen: 45.382 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

TB-20190730

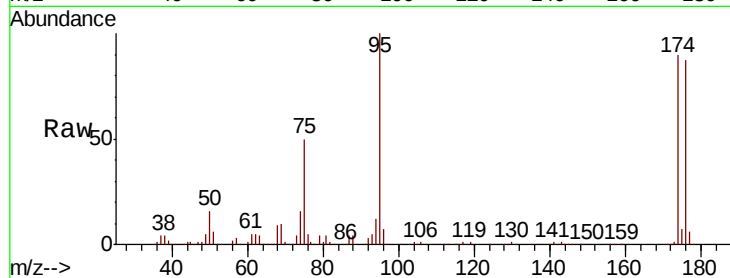
Tot Ion: 95 Resp: 92100

Ion Ratio Lower Upper

95 100

174 94.2 0.0 191.2

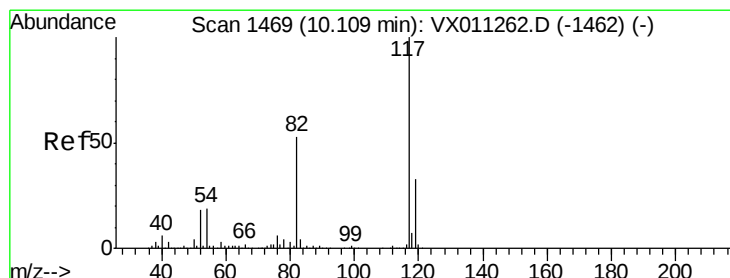
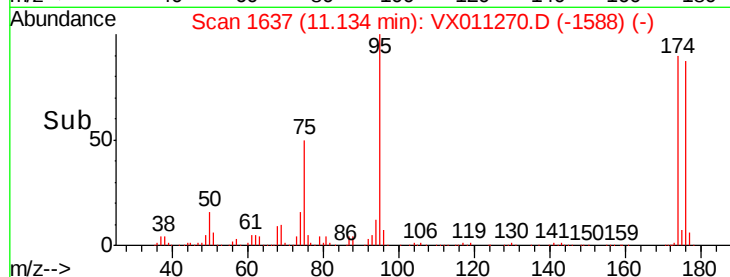
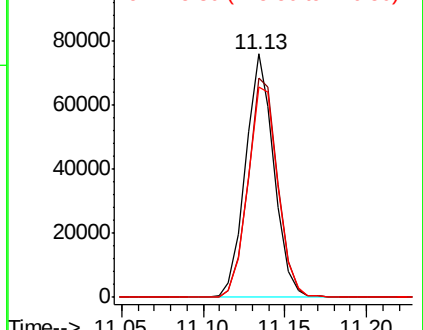
176 92.4 0.0 184.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

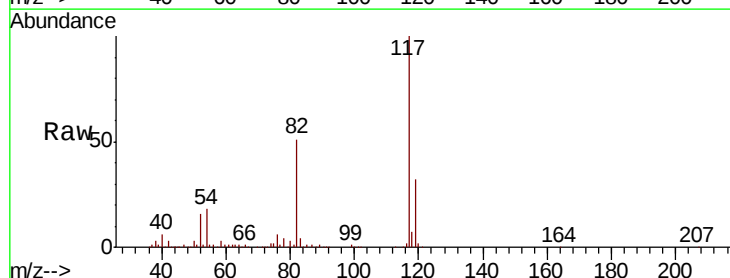
Tgt Ion: 117 Resp: 215859

Ion Ratio Lower Upper

117 100

82 50.6 42.2 63.2

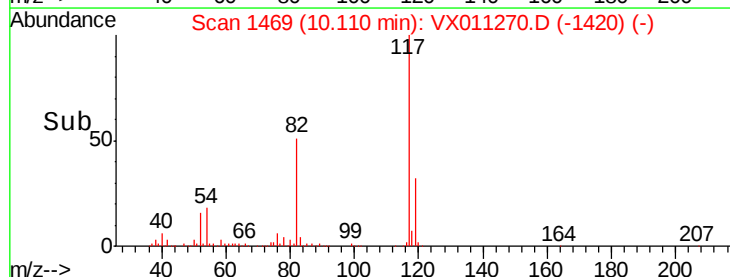
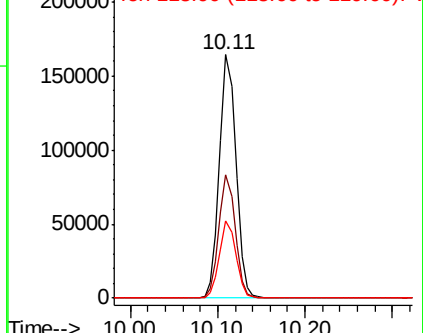
119 31.6 26.6 39.8

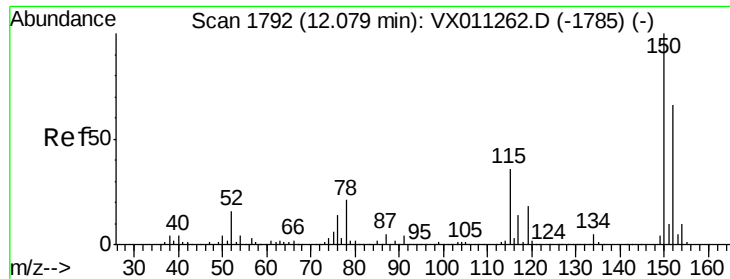


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

TB-20190730

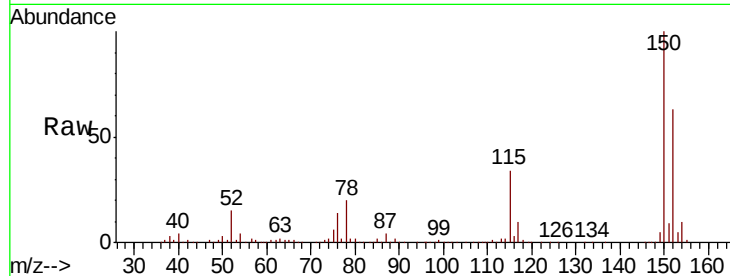
Tot Ion:152 Resp: 98689

Ion Ratio Lower Upper

152 100

115 54.0 40.0 119.9

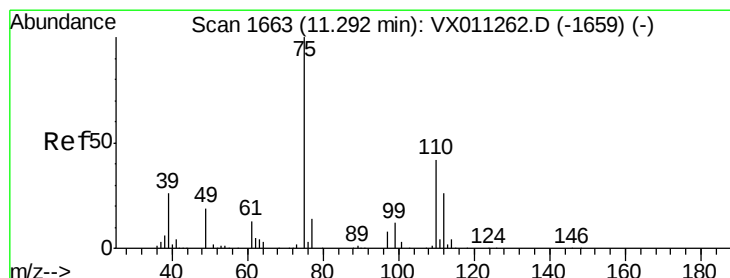
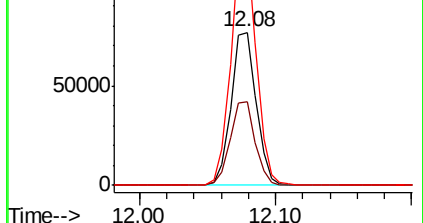
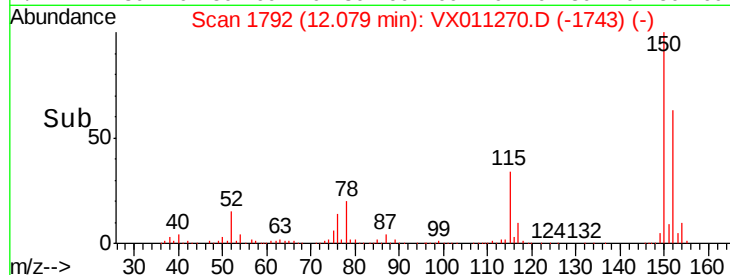
150 157.5 0.0 350.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.028 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011270.D

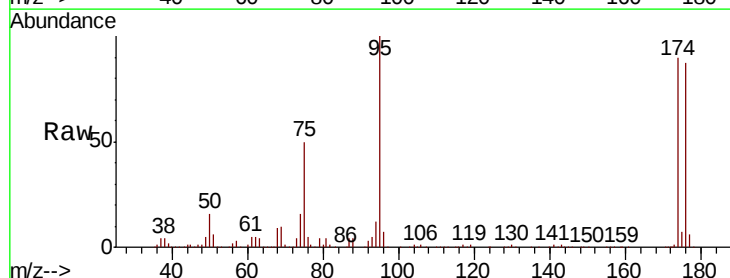
Acq: 01 Aug 2019 20:07

Tgt Ion: 75 Resp: 44981

Ion Ratio Lower Upper

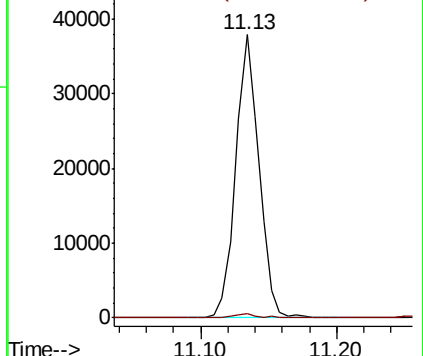
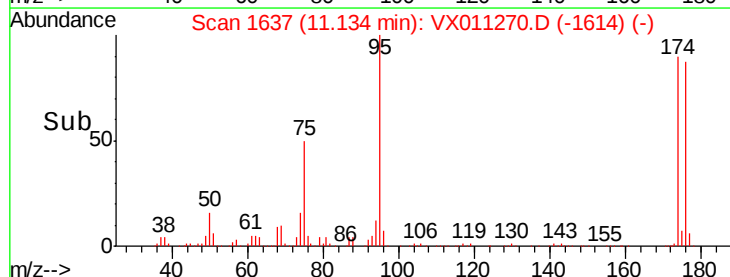
75 100

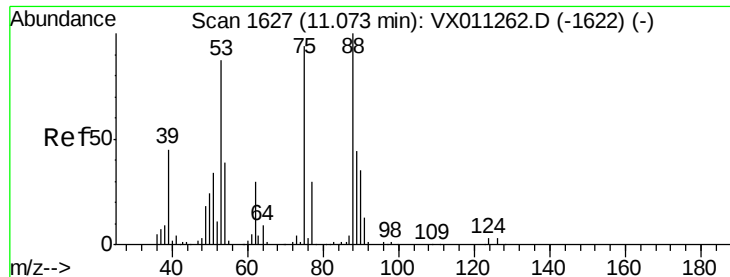
77 1.5 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.307 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

Instrument :

MSVOA_X

ClientSampleId :

TB-20190730

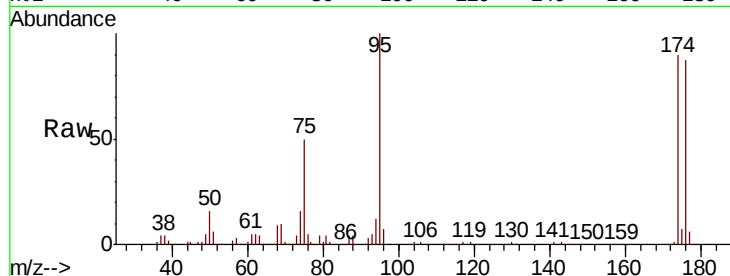
Tot Ion: 75 Resp: 44981

Ion Ratio Lower Upper

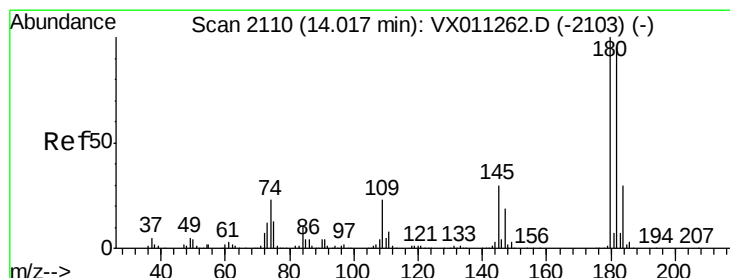
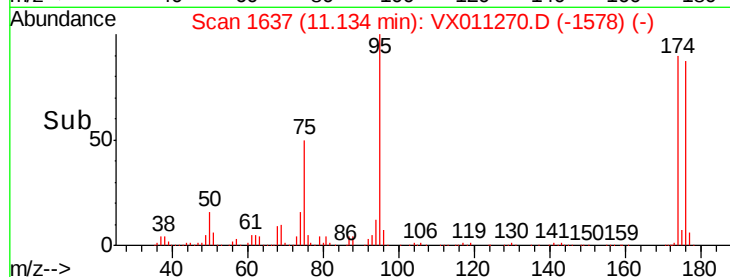
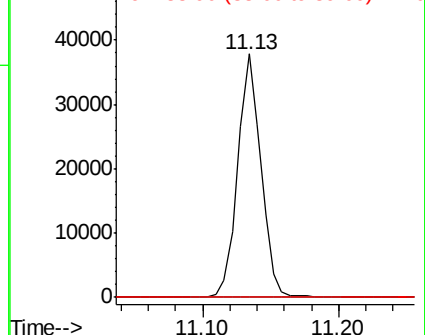
75 100

53 0.3 78.2 117.4#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#96

1,2,3-Trichlorobenzene

Concen: 0.219 ug/l

RT: 14.01 min Scan# 2109

Delta R.T. -0.01 min

Lab File: VX011270.D

Acq: 01 Aug 2019 20:07

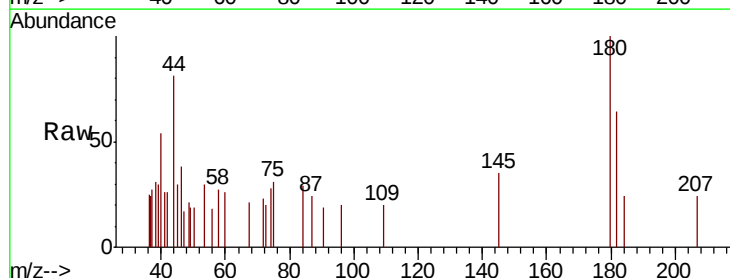
Tgt Ion:180 Resp: 491

Ion Ratio Lower Upper

180 100

182 73.3 47.4 142.3

145 32.0 15.2 45.6



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

