

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072619\
 Data File : VX011109.D
 Acq On : 26 Jul 2019 23:36
 Operator : JC/SP
 Sample : VX0726WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0726WBL02

Quant Time: Jul 27 02:07:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	195691	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	310162	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	289704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	136338	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	107250	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
35) Dibromofluoromethane	5.50	113	97156	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
50) Toluene-d8	8.71	98	374664	50.74	ug/l	0.00
Spiked Amount			Recovery	=	101.48%	
62) 4-Bromofluorobenzene	11.13	95	130830	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	

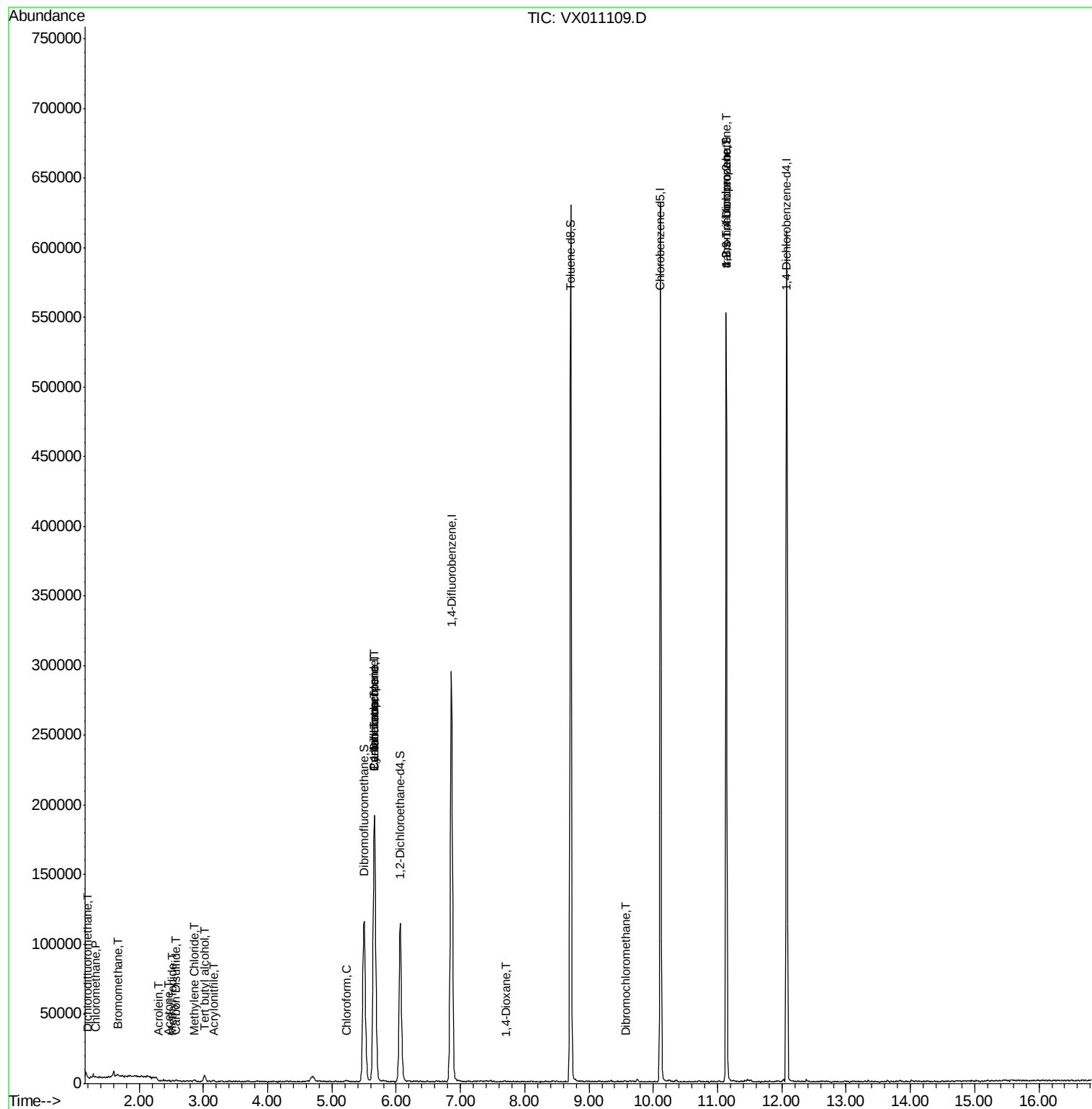
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	166	0.625	ug/l #	43
3) Chloromethane	1.32	50	410	0.228	ug/l #	77
5) Bromomethane	1.67	94	832	0.804	ug/l #	60
10) Methyl Iodide	2.52	142	785	0.337	ug/l #	85
11) Tert butyl alcohol	3.01	59	2486	5.127	ug/l #	79
13) Acrolein	2.29	56	183	0.653	ug/l #	52
15) Acrylonitrile	3.15	53	258	0.263	ug/l #	17
16) Acetone	2.45	43	322	0.342	ug/l #	3
17) Carbon Disulfide	2.57	76	1145	0.256	ug/l #	64
20) Methylene Chloride	2.86	84	427	0.214	ug/l #	68
30) Chloroform	5.21	83	854	0.255	ug/l #	82
31) Cyclohexane	5.66	56	4046	1.431	ug/l #	31
36) 1,1-Dichloropropene	5.66	75	13152	5.162	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18202	6.856	ug/l #	19
49) 1,4-Dioxane	7.71	88	19	0.325	ug/l #	1
60) Dibromochloromethane	9.57	129	25	2.538	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	65248	26.520	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	65248	65.823	ug/l #	11

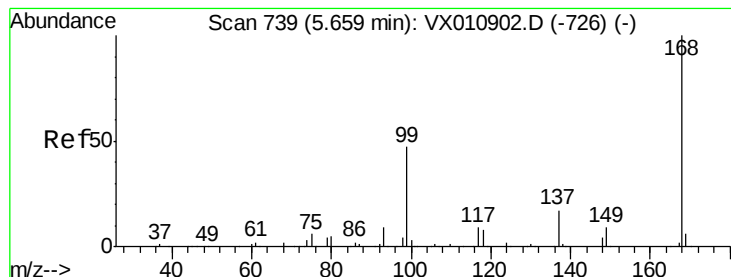
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

Instrument :

MSVOA_X

ClientSampleId :

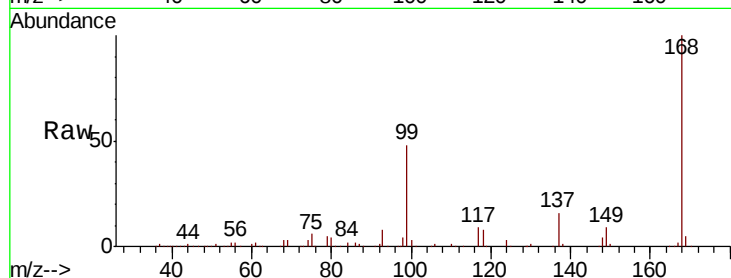
VX0726WBL02

Tot Ion:168 Resp: 195691

Ion Ratio Lower Upper

168 100

99 48.5 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

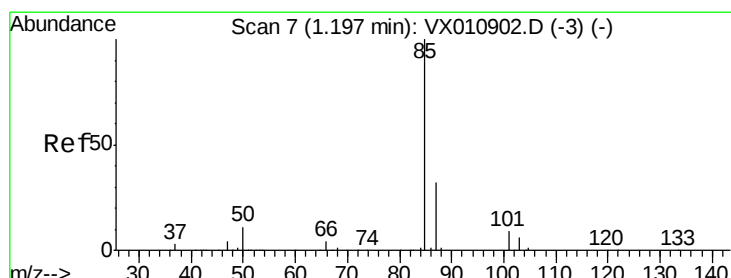
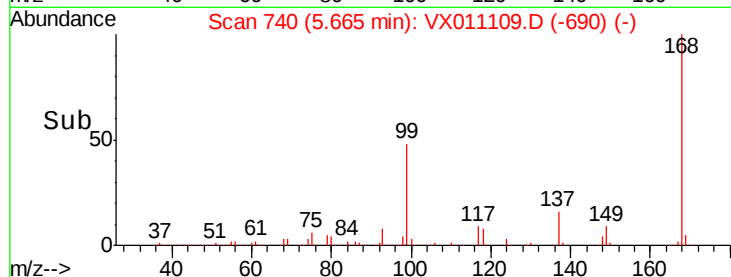
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.625 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011109.D

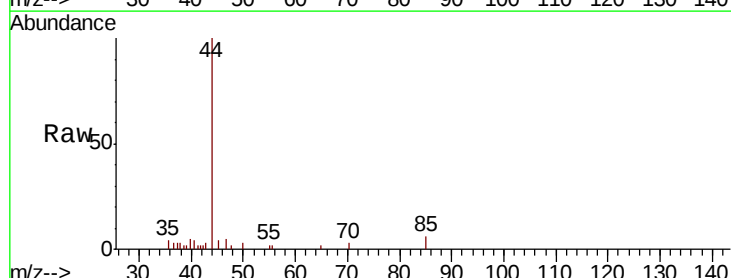
Acq: 26 Jul 2019 23:36

Tgt Ion: 85 Resp: 166

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

200

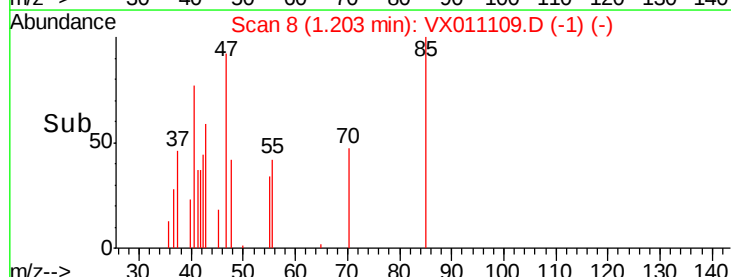
150

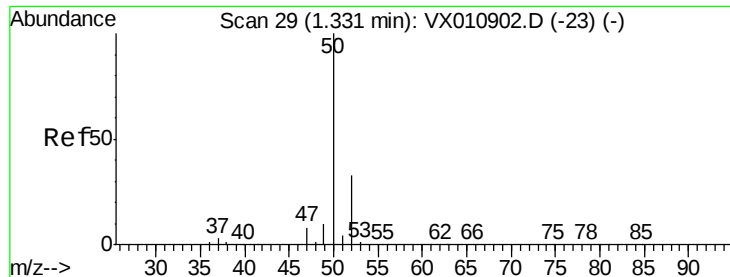
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.228 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

Instrument :

MSVOA_X

ClientSampleId :

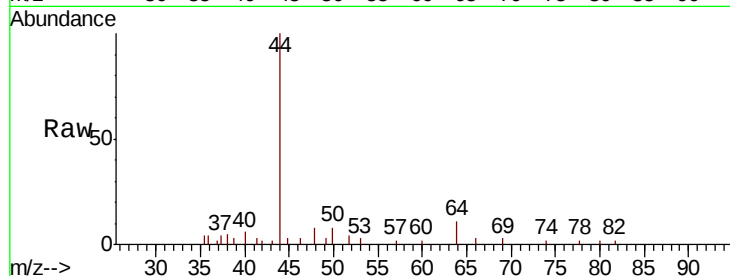
VX0726WBL02

Tot Ion: 50 Resp: 410

Ion Ratio Lower Upper

50 100

52 45.8 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

150

100

50

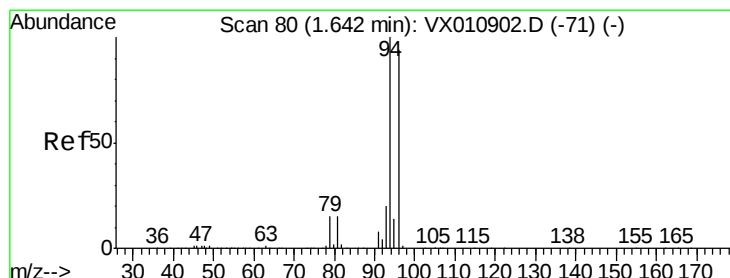
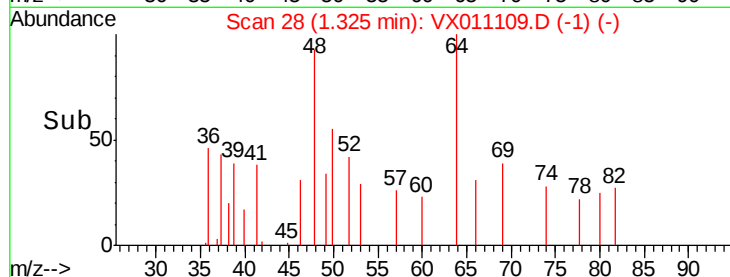
0

1.30

1.35

1.40

Time-->



#5

Bromomethane

Concen: 0.804 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX011109.D

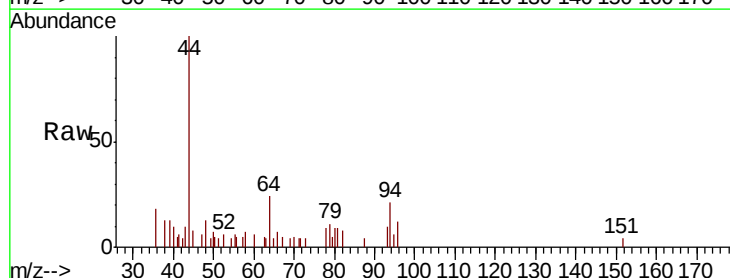
Acq: 26 Jul 2019 23:36

Tgt Ion: 94 Resp: 832

Ion Ratio Lower Upper

94 100

96 55.4 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.67

300

200

100

0

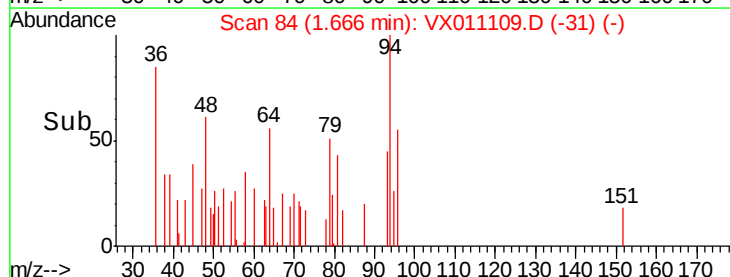
1.60

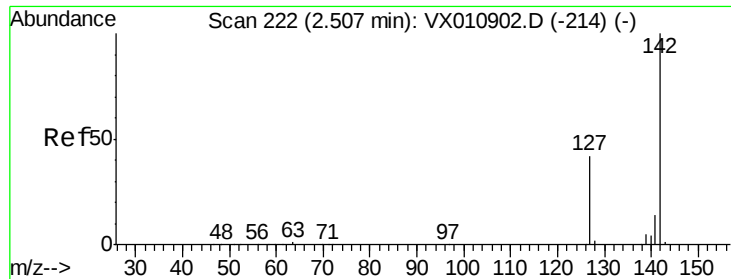
1.65

1.70

1.75

Time-->

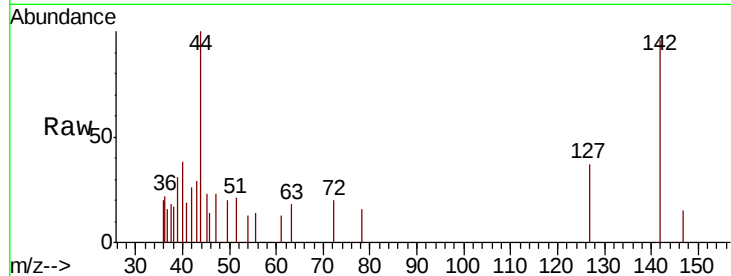




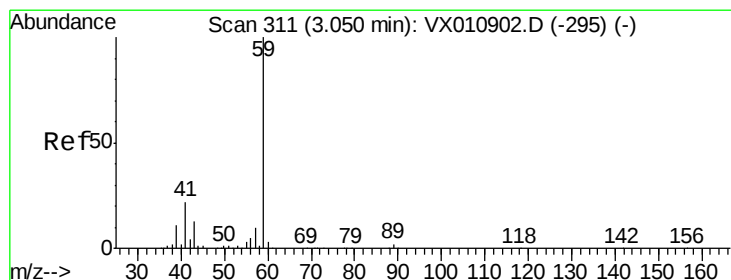
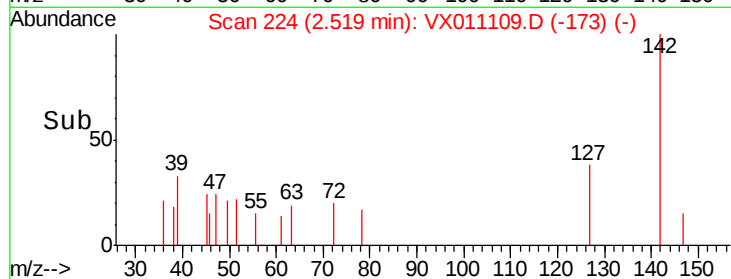
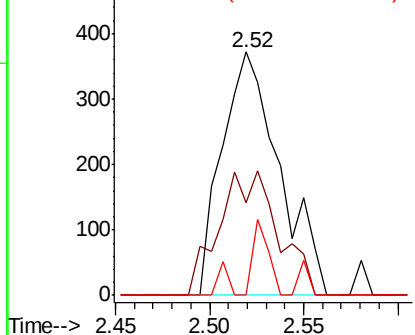
#10
Methvl Iodide
Concen: 0.337 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX011109.D
Acq: 26 Jul 2019 23:36

Instrument :
MSVOA_X
ClientSampleId :
VX0726WBL02

Tot Ion:142 Resp: 785
Ion Ratio Lower Upper
142 100
127 52.6 34.2 51.4#
141 8.4 11.7 17.5#

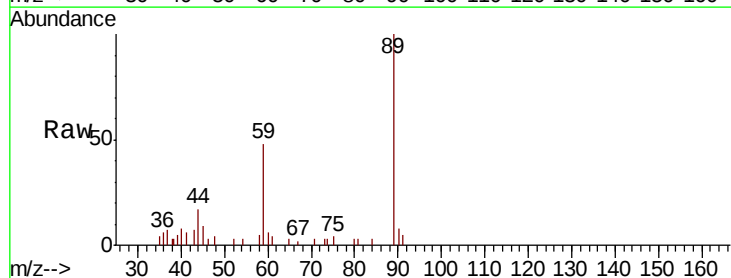


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

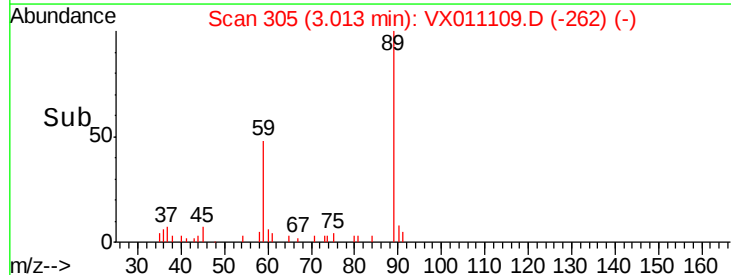
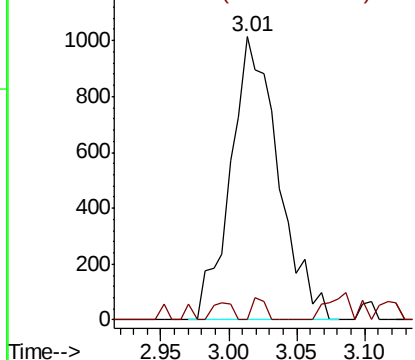


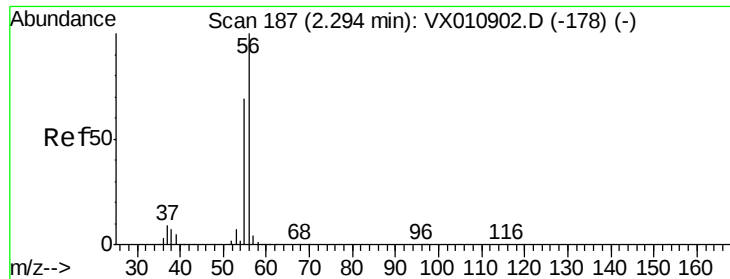
#11
Tert butyl alcohol
Concen: 5.127 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX011109.D
Acq: 26 Jul 2019 23:36

Tgt Ion: 59 Resp: 2486
Ion Ratio Lower Upper
59 100
57 2.2 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.653 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

Instrument :

MSVOA_X

ClientSampleId :

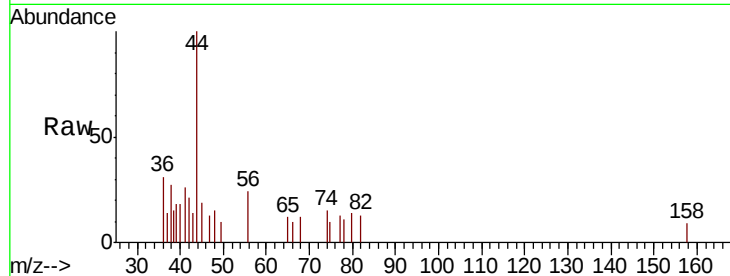
VX0726WBL02

Tot Ion: 56 Resp: 183

Ion Ratio Lower Upper

56 100

55 30.6 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

150

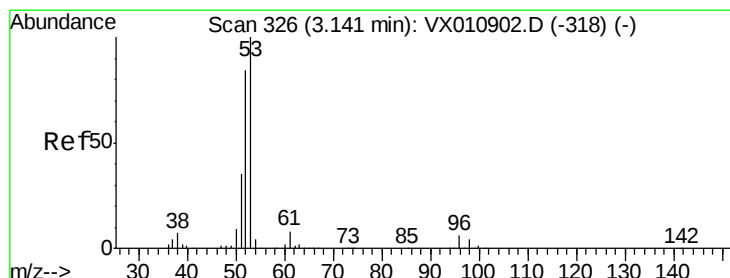
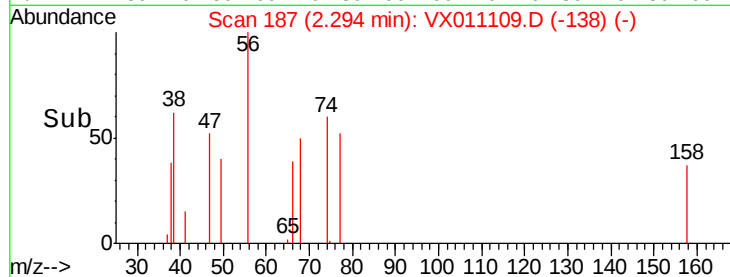
100

50

0

2.26 2.28 2.30 2.32

Time-->



#15

Acrylonitrile

Concen: 0.263 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

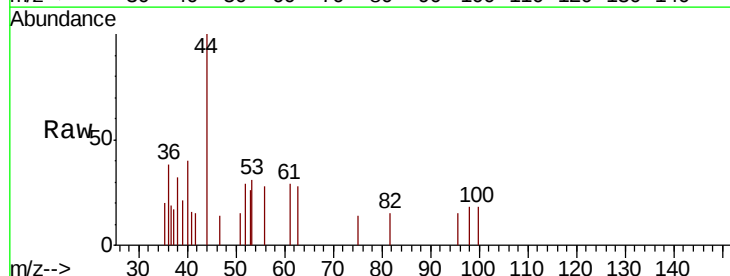
Tgt Ion: 53 Resp: 258

Ion Ratio Lower Upper

53 100

52 0.0 66.5 99.7#

51 0.0 28.2 42.4#



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

250

200

150

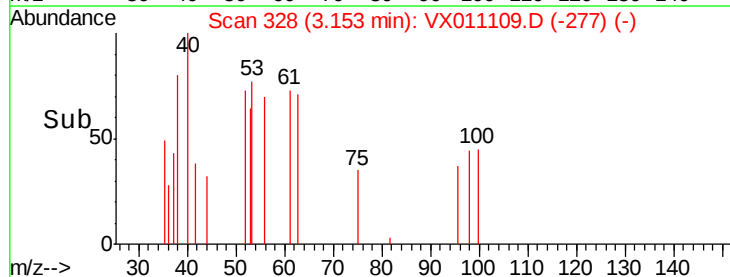
100

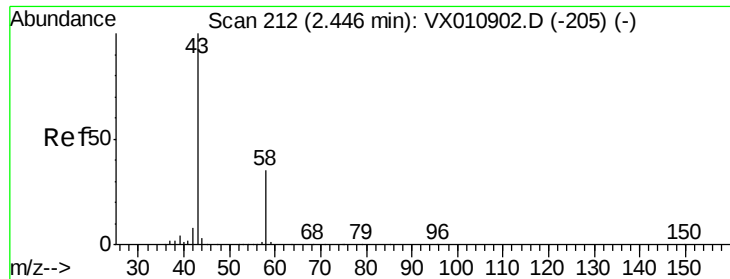
50

0

3.12 3.14 3.16 3.18

Time-->





#16

Acetone

Concen: 0.342 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

Instrument :

MSVOA_X

ClientSampleId :

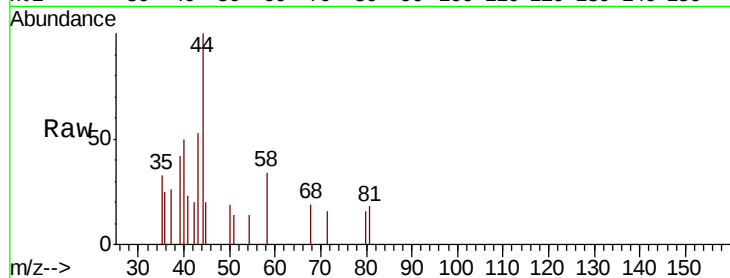
VX0726WBL02

Tot Ion: 43 Resp: 322

Ion Ratio Lower Upper

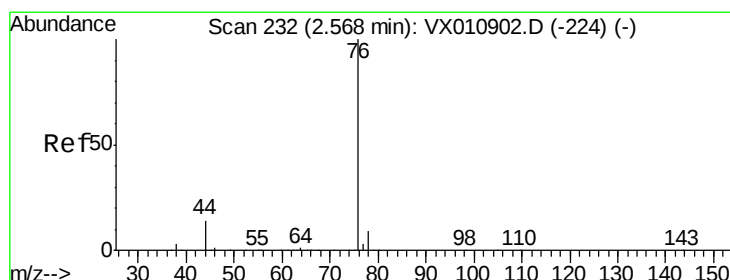
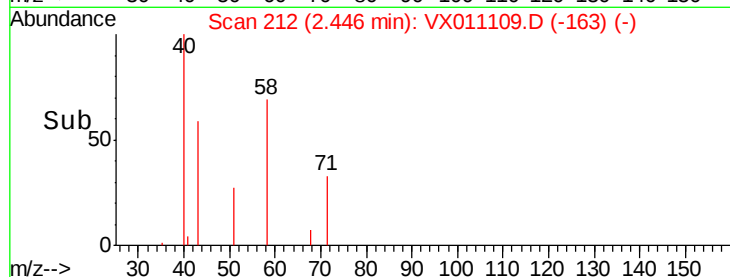
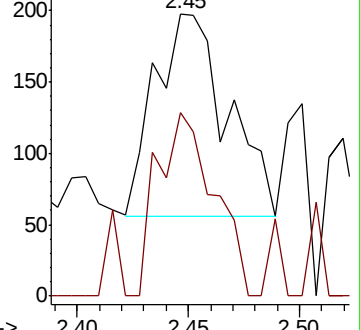
43 100

58 90.8 27.7 41.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.256 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX011109.D

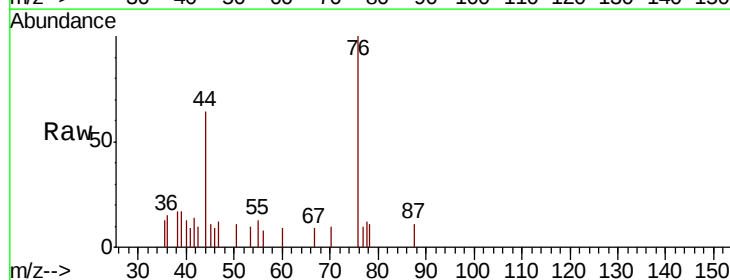
Acq: 26 Jul 2019 23:36

Tgt Ion: 76 Resp: 1145

Ion Ratio Lower Upper

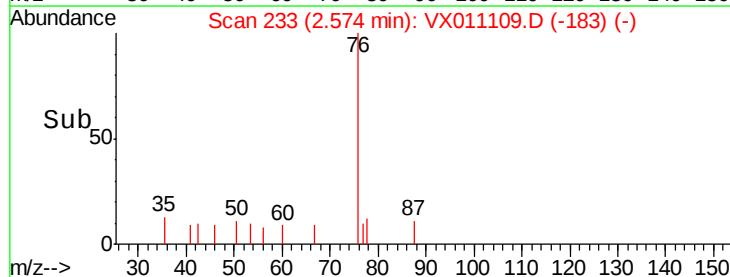
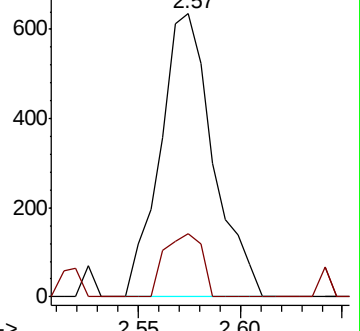
76 100

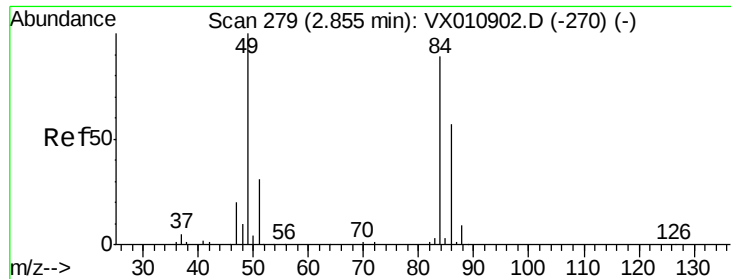
78 22.4 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

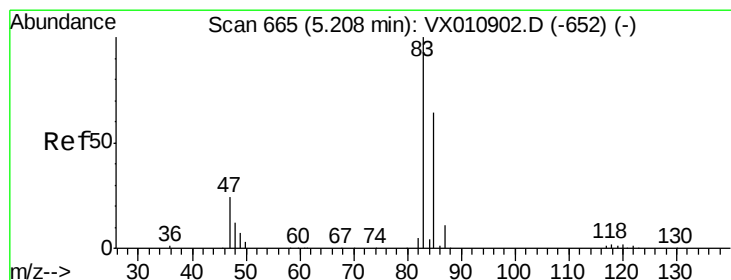
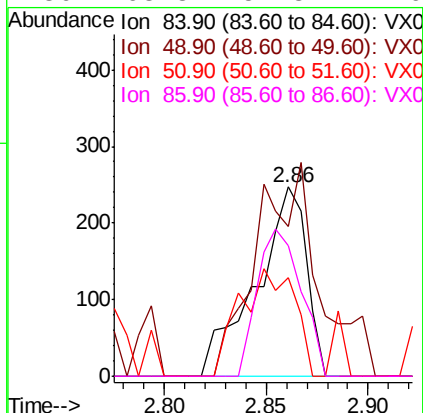
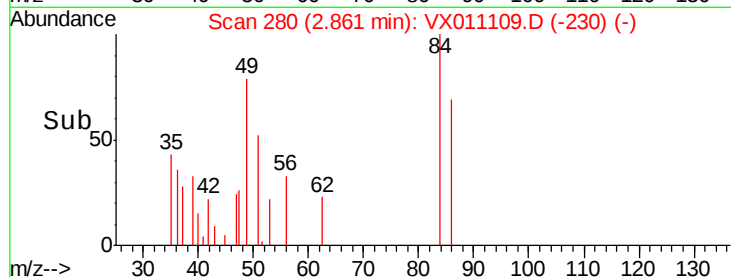
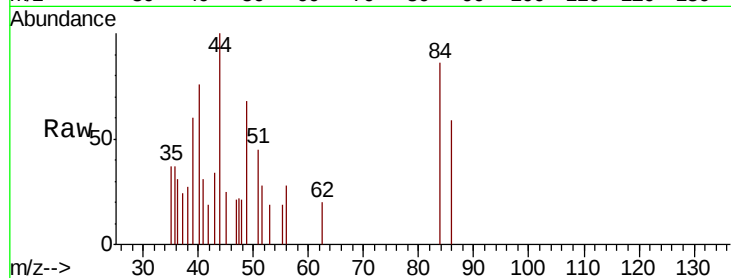




#20
Methvlene Chloride
Concen: 0.214 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011109.D
Acq: 26 Jul 2019 23:36

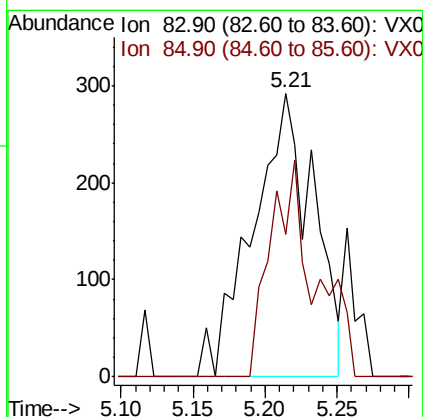
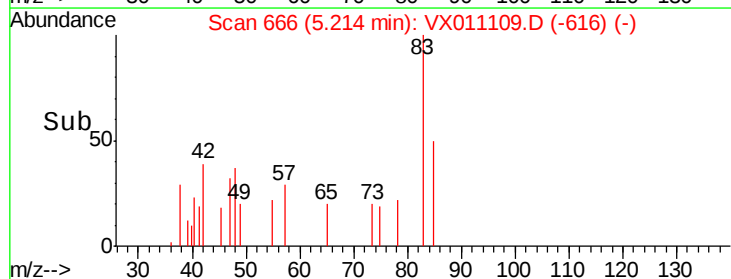
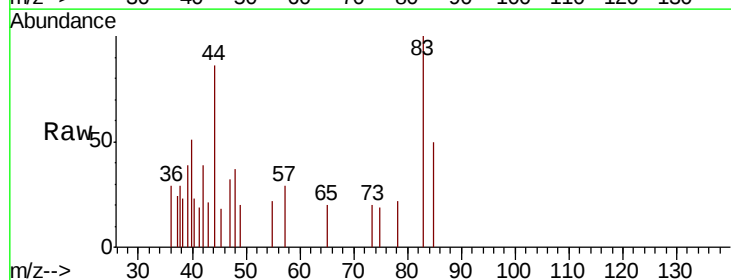
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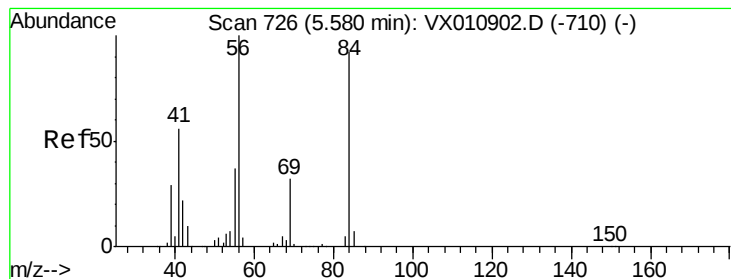
Tot Ion: 84 Resp: 427
Ion Ratio Lower Upper
84 100
49 78.9 89.9 134.9#
51 85.0 27.8 41.6#
86 68.8 51.8 77.6



#30
Chloroform
Concen: 0.255 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX011109.D
Acq: 26 Jul 2019 23:36

Tgt Ion: 83 Resp: 854
Ion Ratio Lower Upper
83 100
85 50.3 51.4 77.0#





#31

Cyclohexane

Concen: 1.431 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

Instrument :

MSVOA_X

ClientSampleId :

VX0726WBL02

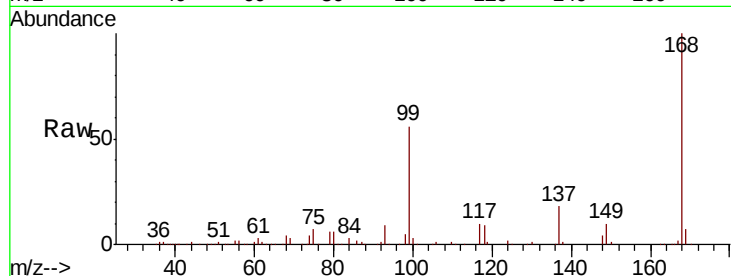
Tot Ion: 56 Resp: 4046

Ion Ratio Lower Upper

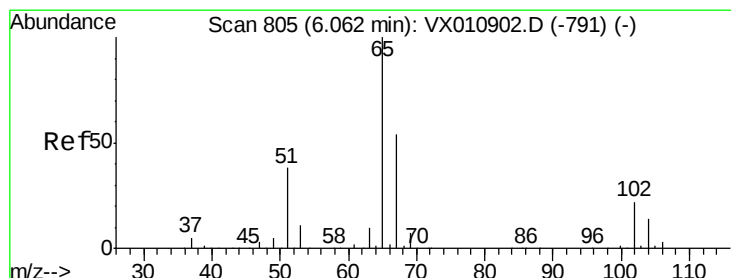
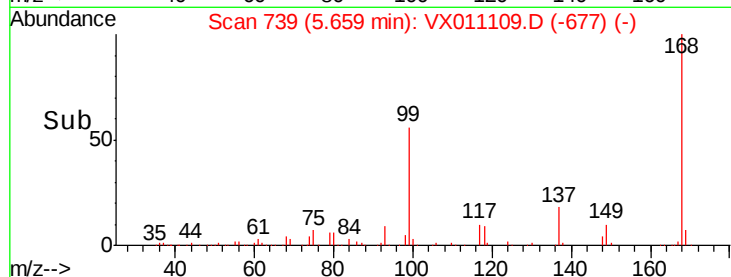
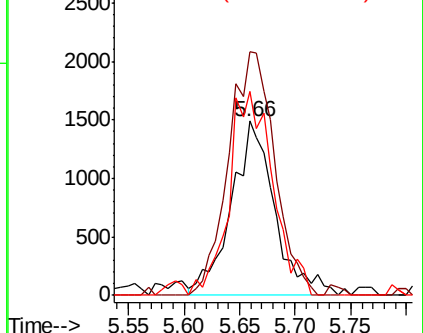
56 100

69 139.5 25.8 38.8#

84 117.2 73.8 110.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.517 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011109.D

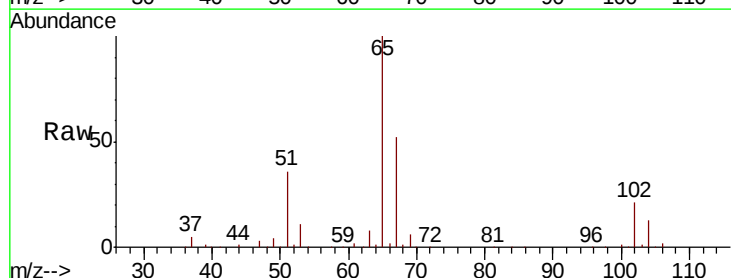
Acq: 26 Jul 2019 23:36

Tgt Ion: 65 Resp: 107250

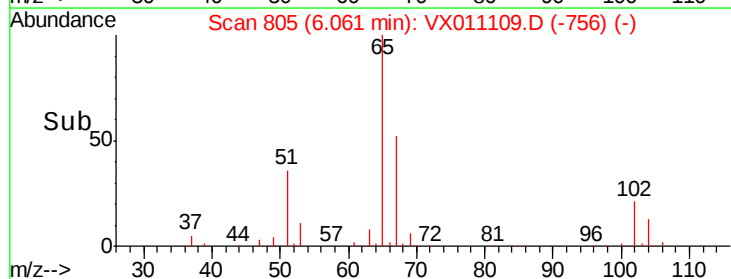
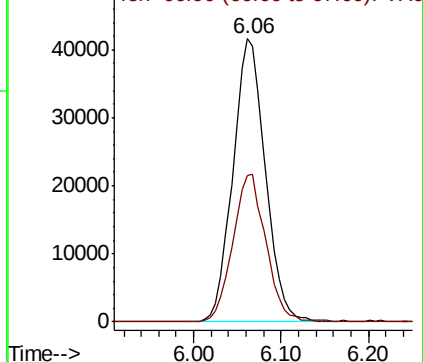
Ion Ratio Lower Upper

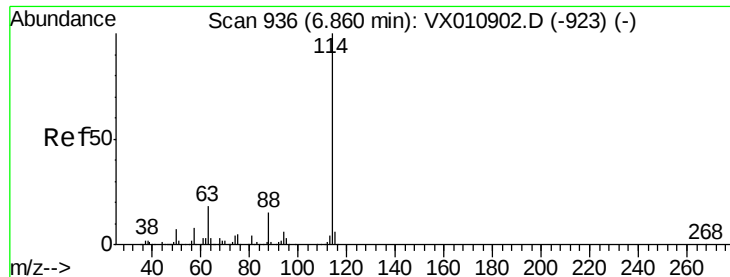
65 100

67 53.0 0.0 107.8



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: VX011109.D

Acq: 26 Jul 2019 23:36

Instrument :

MSVOA_X

ClientSampleId :

VX0726WBL02

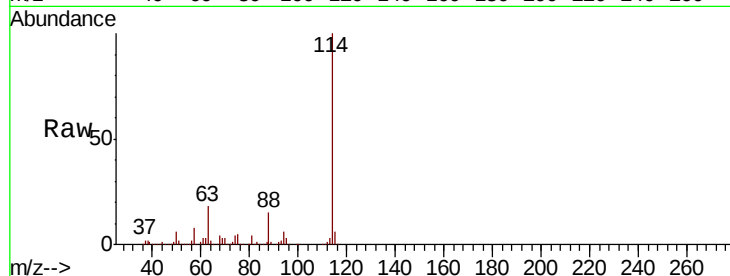
Tot Ion:114 Resp: 310162

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

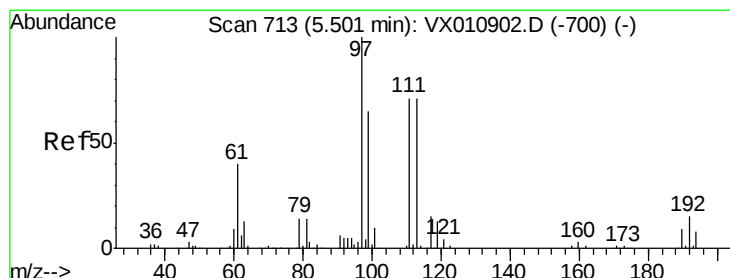
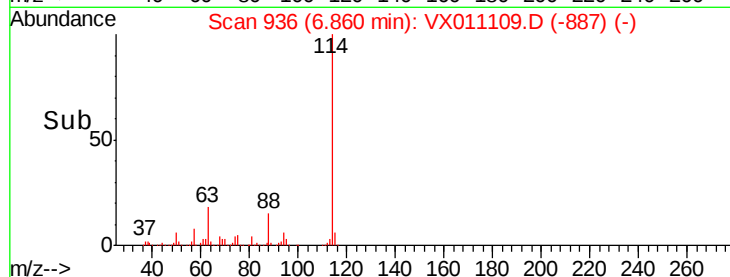
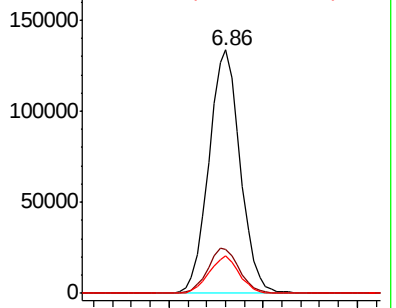
88 15.4 0.0 29.8



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: 49.351 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

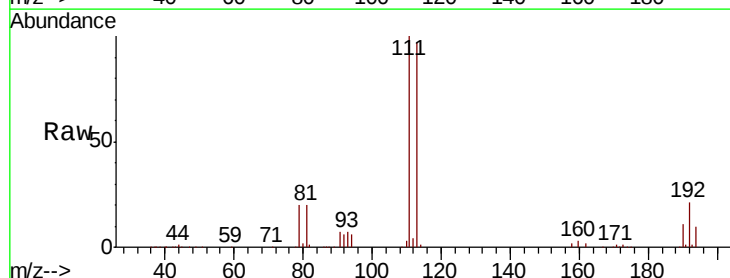
Tgt Ion:113 Resp: 97156

Ion Ratio Lower Upper

113 100

111 104.4 82.3 123.5

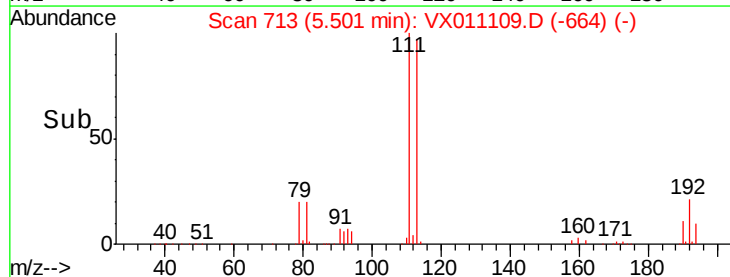
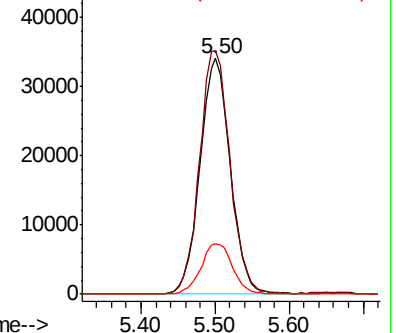
192 22.3 17.4 26.2

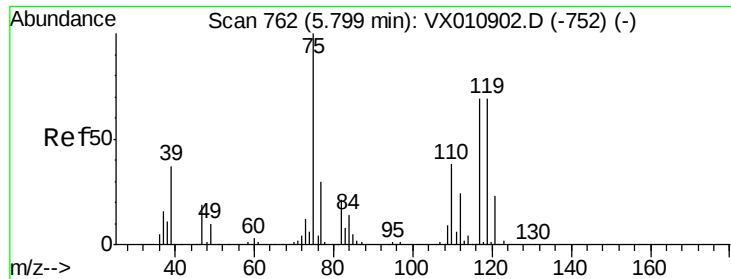


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

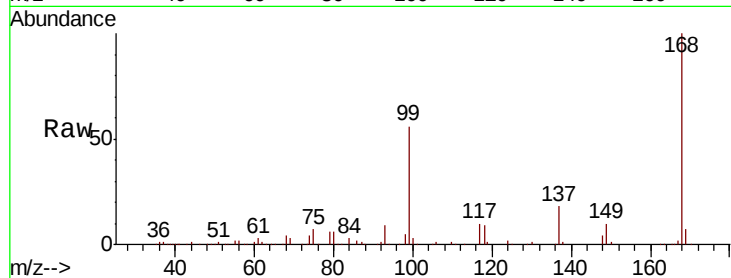




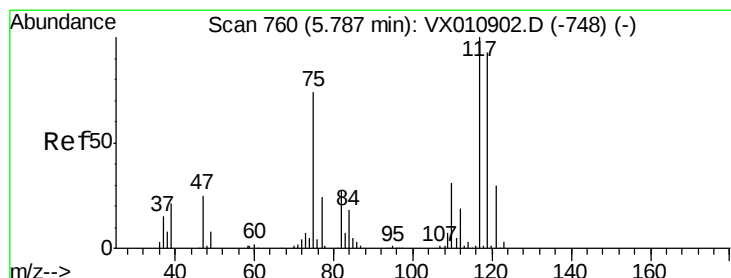
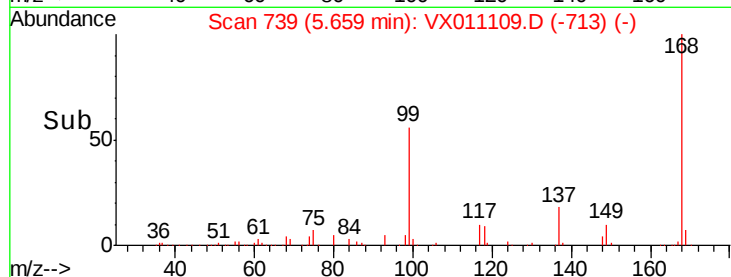
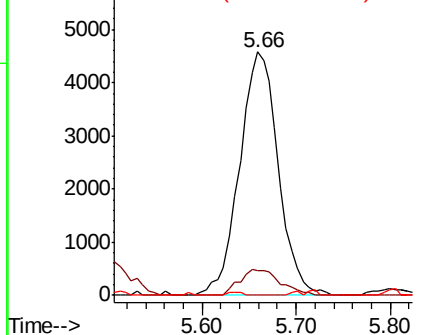
#36
 1,1-Dichloropropene
 Concen: 5.162 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX011109.D
 Acq: 26 Jul 2019 23:36

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0726WBL02

Tot Ion	Ratio	Lower	Upper
75	100		
110	11.1	19.9	59.7#
77	0.0	25.0	37.4#

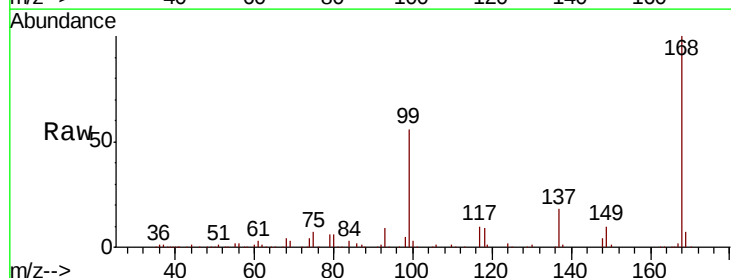


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

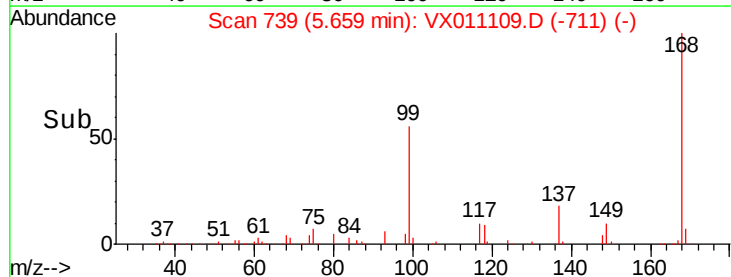
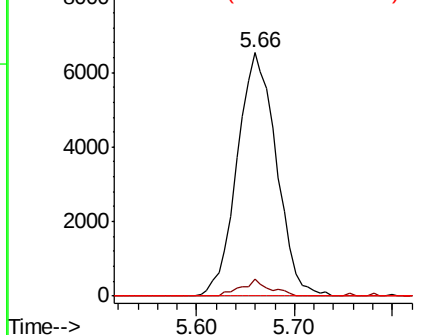


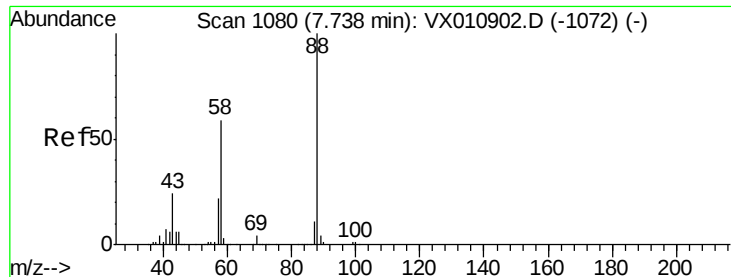
#38
 Carbon Tetrachloride
 Concen: 6.856 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011109.D
 Acq: 26 Jul 2019 23:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	74.2	111.2#
121	0.0	24.2	36.2#



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





#49

1,4-Dioxane

Concen: 0.325 ug/l

RT: 7.71 min Scan# 1076

Delta R.T. -0.02 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

Instrument :

MSVOA_X

ClientSampleId :

VX0726WBL02

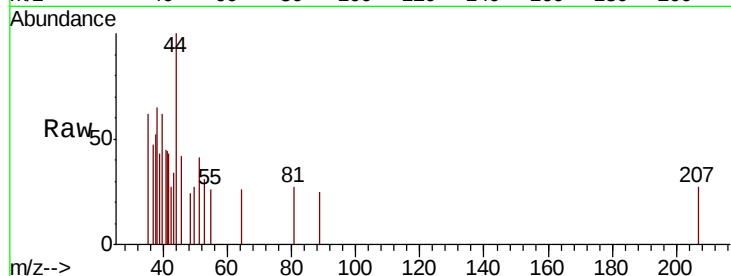
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 1157.9 22.9 34.3#

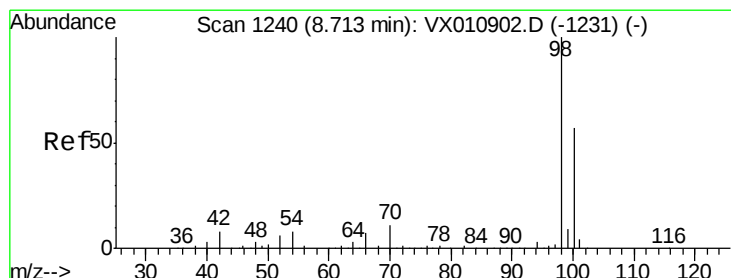
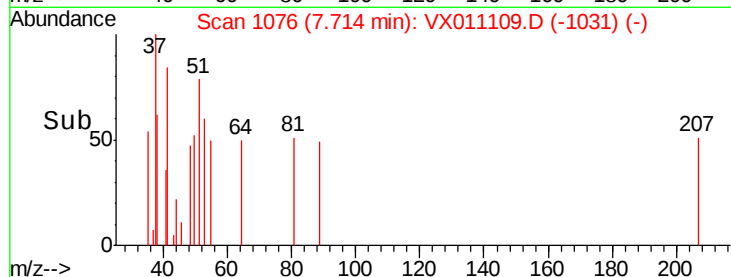
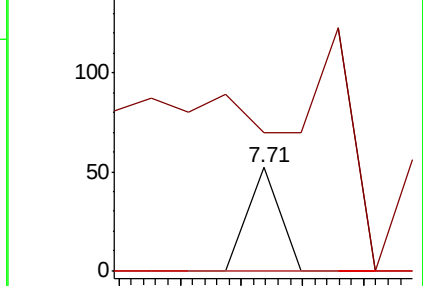
58 0.0 49.8 74.8#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.742 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011109.D

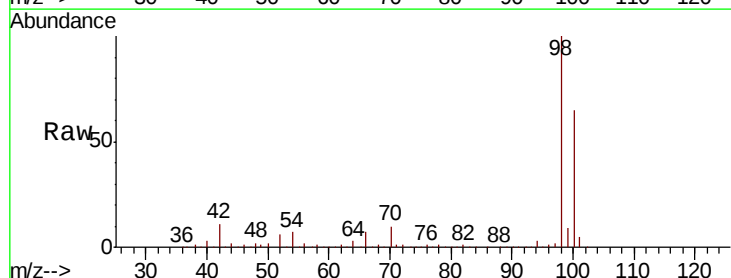
Acq: 26 Jul 2019 23:36

Tgt Ion: 98 Resp: 374664

Ion Ratio Lower Upper

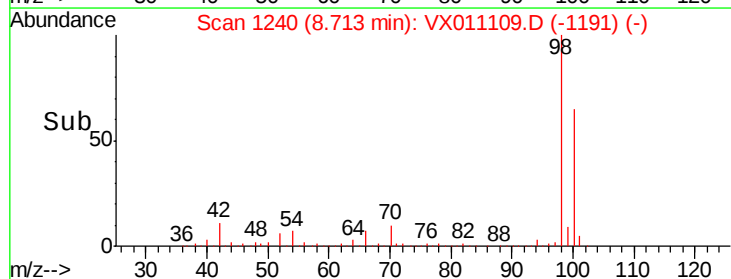
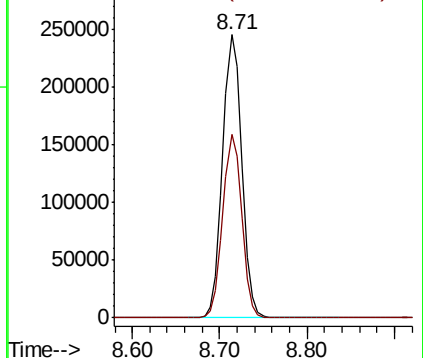
98 100

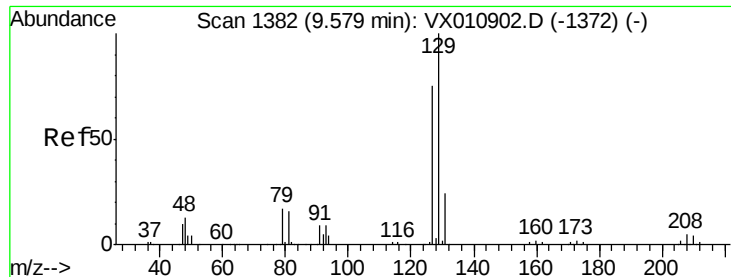
100 64.1 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 2.538 ug/l

RT: 9.57 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

Instrument :

MSVOA_X

ClientSampleId :

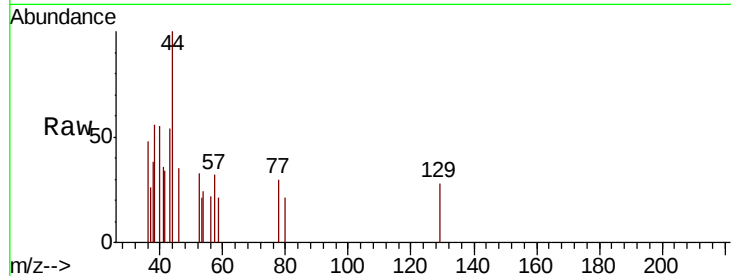
VX0726WBL02

Tot Ion:129 Resp: 25

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.57

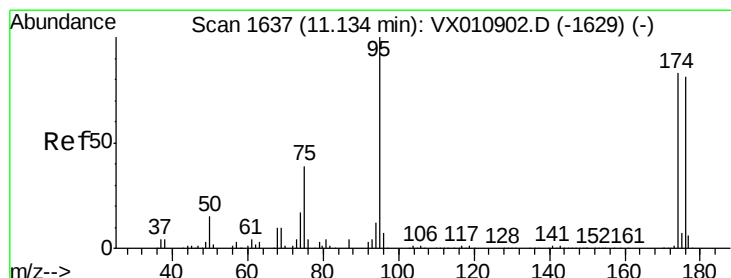
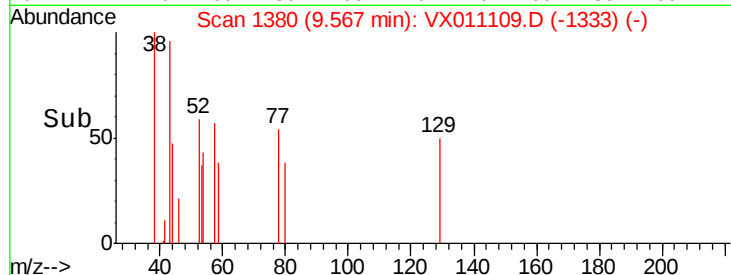
60

40

20

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.205 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

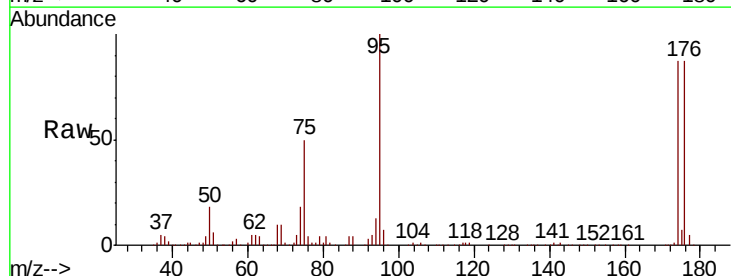
Tgt Ion: 95 Resp: 130830

Ion Ratio Lower Upper

95 100

174 91.6 0.0 180.6

176 89.5 0.0 173.8



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

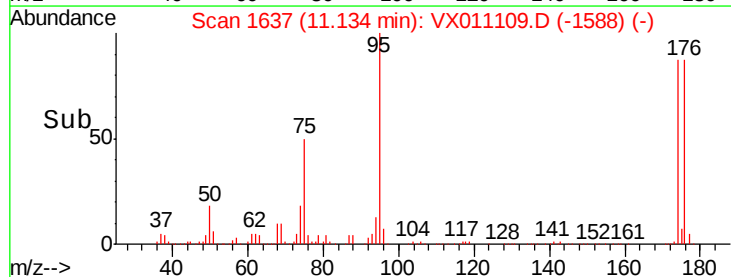
150000

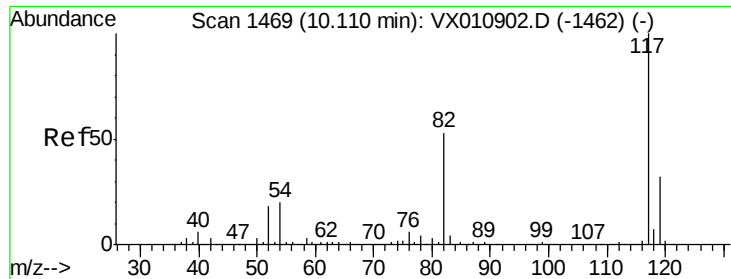
100000

50000

0

Time-->

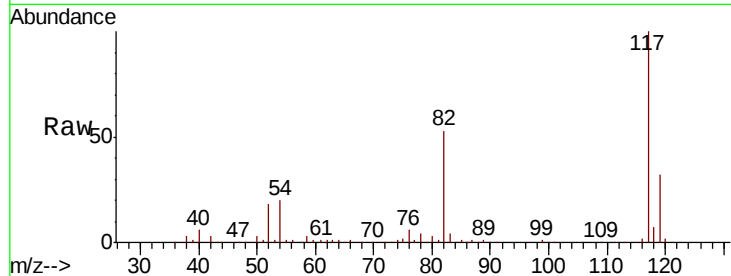




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011109.D
Acq: 26 Jul 2019 23:36

Instrument :
MSVOA_X
ClientSampleId :
VX0726WBL02

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	42.6	63.8
119	32.1	25.9	38.9

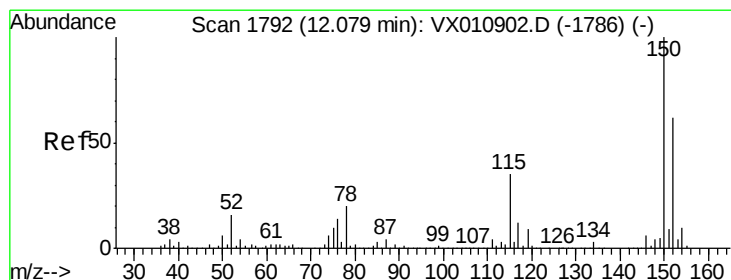
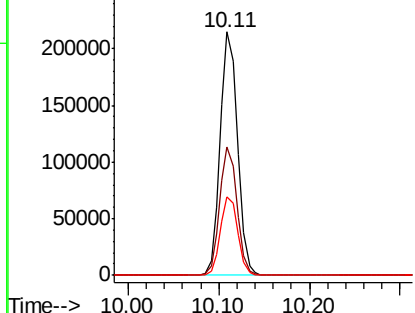
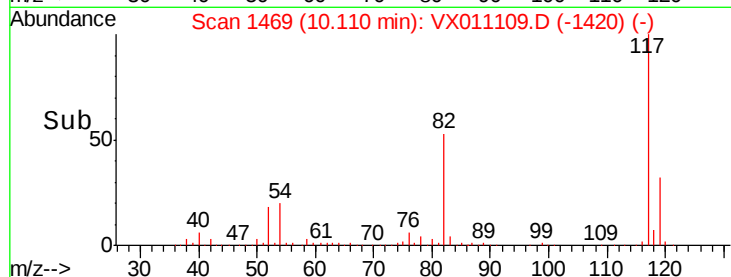


Abundance

Ion 116.90 (116.60 to 117.60): V

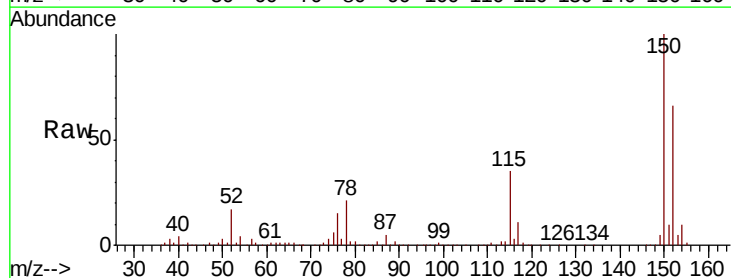
Ion 82.00 (81.70 to 82.70): VX0

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: VX011109.D
Acq: 26 Jul 2019 23:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	39.7	119.1
150	154.5	0.0	345.6

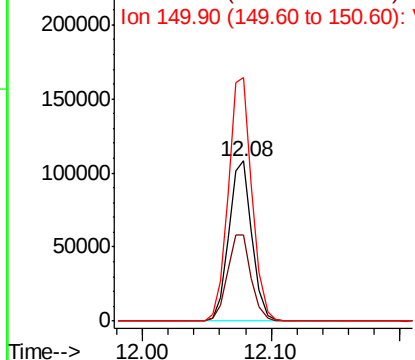
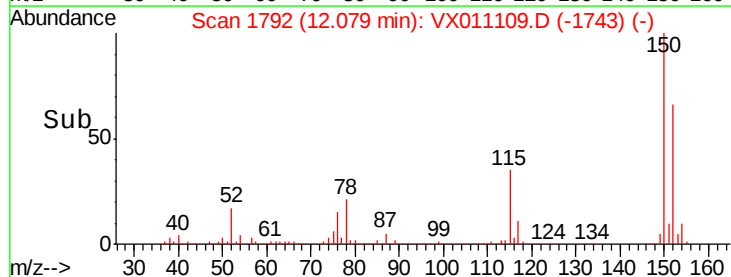


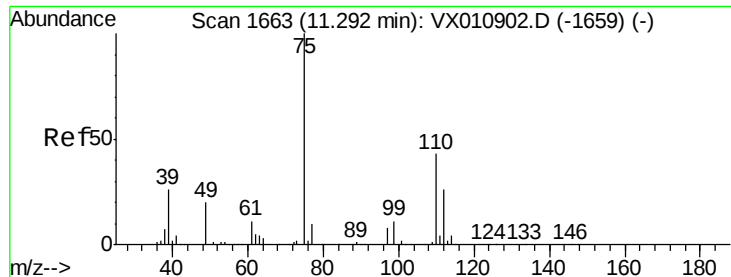
Abundance

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: 26.520 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

Instrument :

MSVOA_X

ClientSampleId :

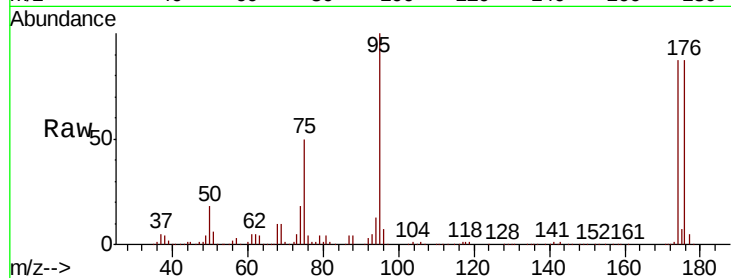
VX0726WBL02

Tot Ion: 75 Resp: 65248

Ion Ratio Lower Upper

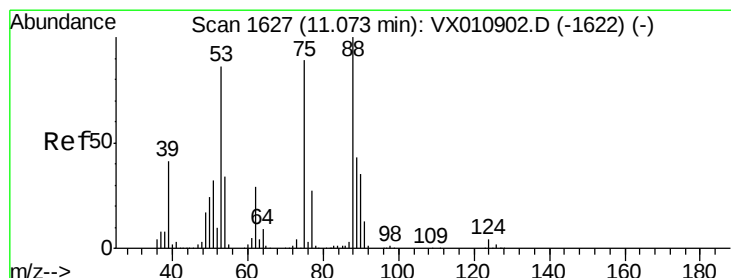
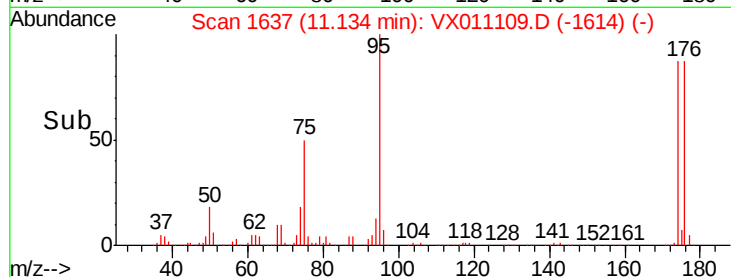
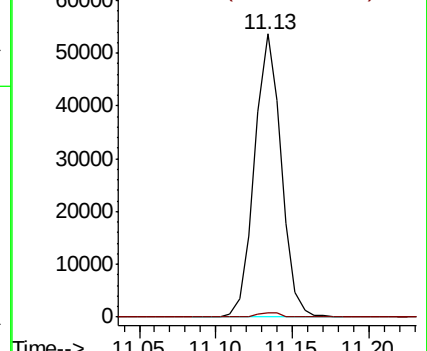
75 100

77 1.6 21.3 64.0#



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: 65.823 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011109.D

Acq: 26 Jul 2019 23:36

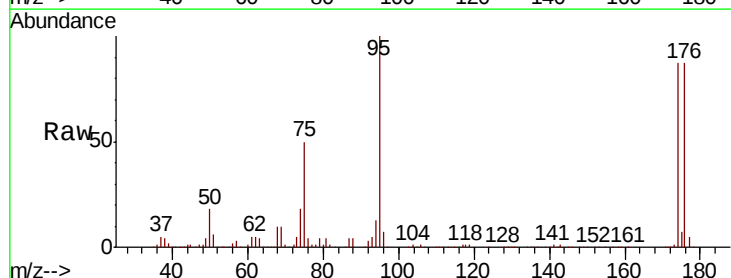
Tgt Ion: 75 Resp: 65248

Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.0 38.5 57.7#



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

