

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101019\
 Data File : VX013011.D
 Acq On : 11 Oct 2019 04:24
 Operator : JC/SP
 Sample : VX1010WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1011WBL01

Quant Time: Oct 11 08:25:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	172666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	281412	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	237502	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	88451	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	107603	49.86	ug/l	-0.01
Spiked Amount			Recovery	=		99.72%
35) Dibromofluoromethane	5.48	113	83892	51.94	ug/l	0.00
Spiked Amount			Recovery	=		103.88%
50) Toluene-d8	8.71	98	330333	52.44	ug/l	0.00
Spiked Amount			Recovery	=		104.88%
62) 4-Bromofluorobenzene	11.13	95	109081	44.56	ug/l	0.00
Spiked Amount			Recovery	=		89.12%

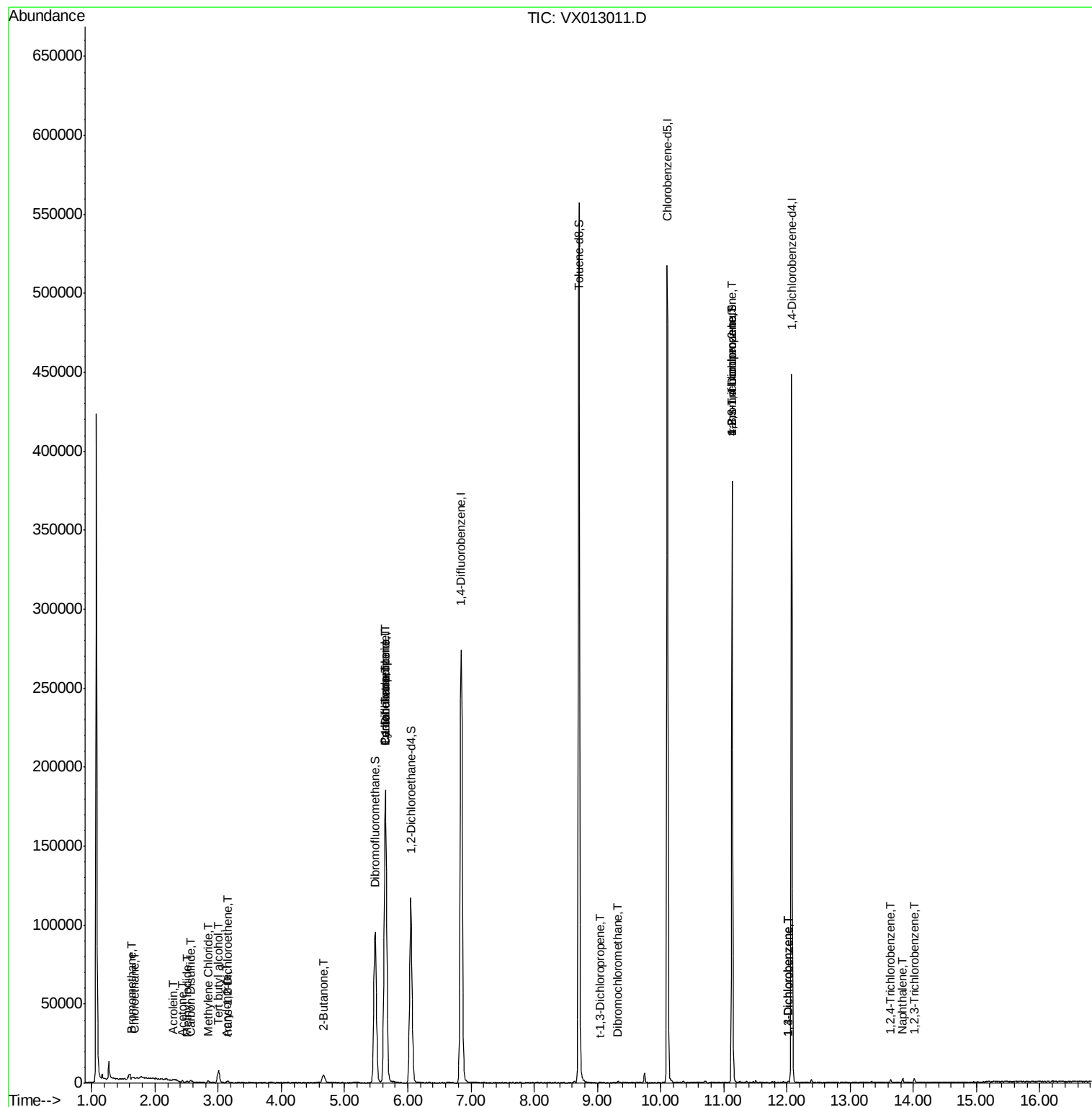
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	376	0.458	ug/l #	71
6) Chloroethane	1.68	64	961	1.157	ug/l #	68
10) Methyl Iodide	2.50	142	706	5.406	ug/l #	90
11) Tert butyl alcohol	3.00	59	5029	8.791	ug/l #	72
13) Acrolein	2.28	56	231	0.568	ug/l	89
15) Acrylonitrile	3.13	53	511	0.471	ug/l #	78
16) Acetone	2.43	43	867	0.762	ug/l #	87
17) Carbon Disulfide	2.56	76	1611	0.324	ug/l	99
20) Methylene Chloride	2.85	84	532	0.254	ug/l #	80
21) trans-1,2-Dichloroethene	3.15	96	416	0.222	ug/l #	60
25) 2-Butanone	4.67	43	383	0.243	ug/l #	49
31) Cyclohexane	5.64	56	3912	1.249	ug/l #	30
36) 1,1-Dichloropropene	5.64	75	13812	5.582	ug/l #	50
38) Carbon Tetrachloride	5.64	117	17969	7.461	ug/l #	17
53) t-1,3-Dichloropropene	9.04	75	131	2.210	ug/l #	42
60) Dibromochloromethane	9.32	129	105	1.906	ug/l #	10
76) 1,2,3-Trichloropropane	11.13	75	54784	27.925	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	54784	70.027	ug/l #	10
87) 1,3-Dichlorobenzene	12.02	146	585	0.206	ug/l	96
88) 1,4-Dichlorobenzene	12.02	146	585	0.203	ug/l	95
93) 1,2,4-Trichlorobenzene	13.65	180	619	0.354	ug/l	96
95) Naphthalene	13.83	128	1914	0.316	ug/l	99
96) 1,2,3-Trichlorobenzene	14.01	180	782	0.433	ug/l	79

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

Instrument :

MSVOA_X

ClientSampleId :

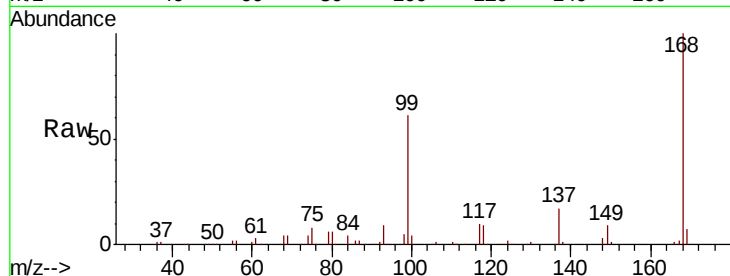
VX1011WBL01

Tot Ion:168 Resp: 172666

Ion Ratio Lower Upper

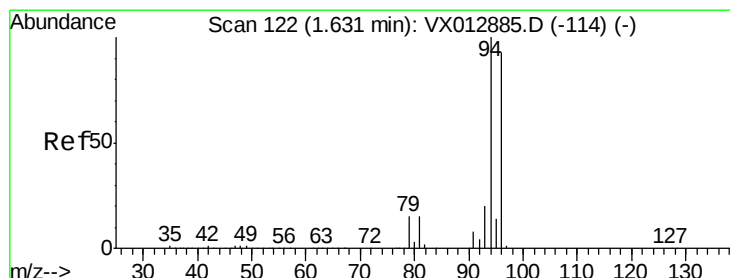
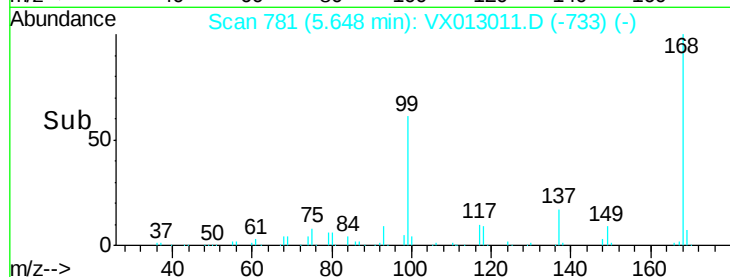
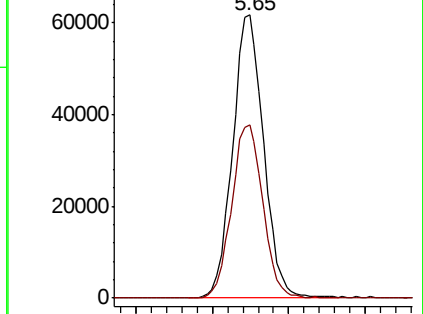
168 100

99 61.3 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.458 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013011.D

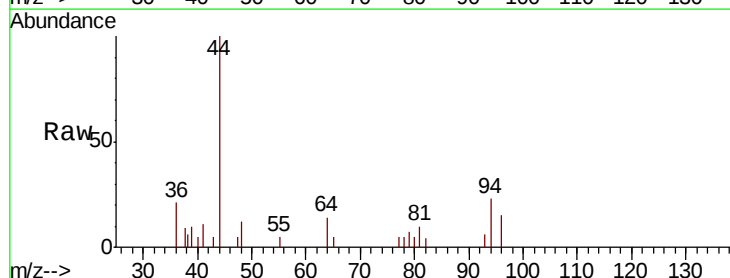
Acq: 11 Oct 2019 04:24

Tgt Ion: 94 Resp: 376

Ion Ratio Lower Upper

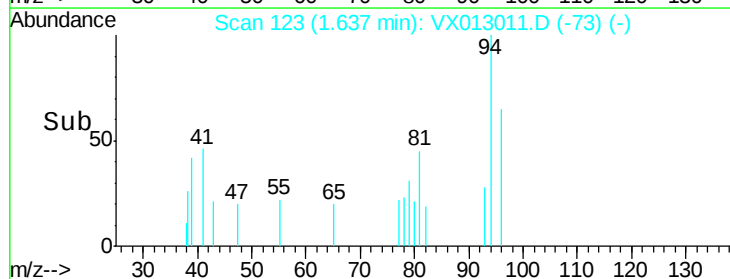
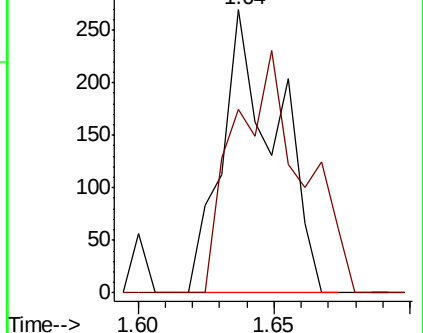
94 100

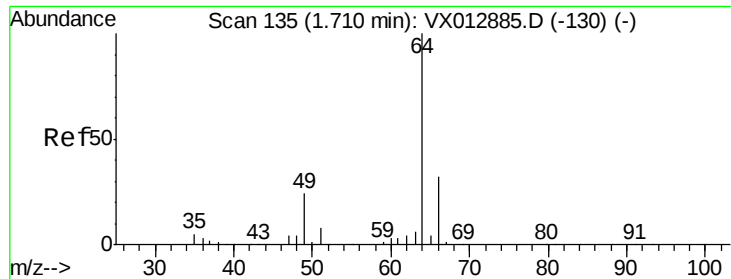
96 65.1 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.157 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.03 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

Instrument :

MSVOA_X

ClientSampleId :

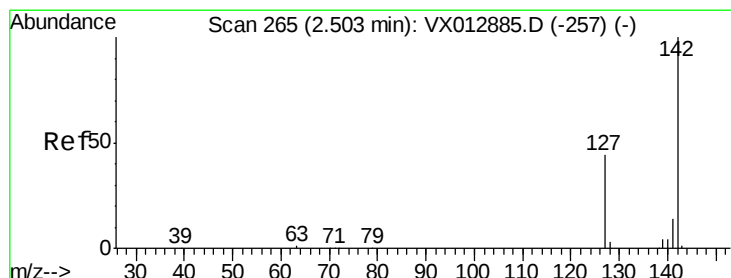
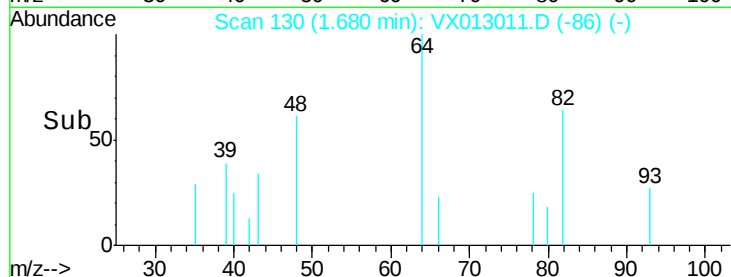
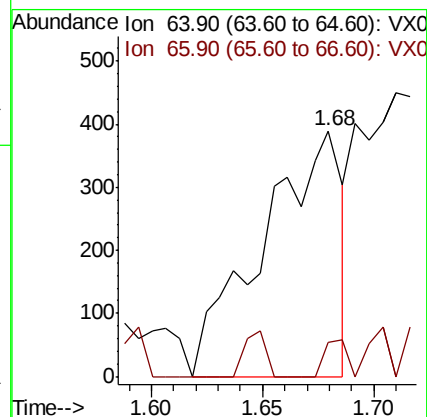
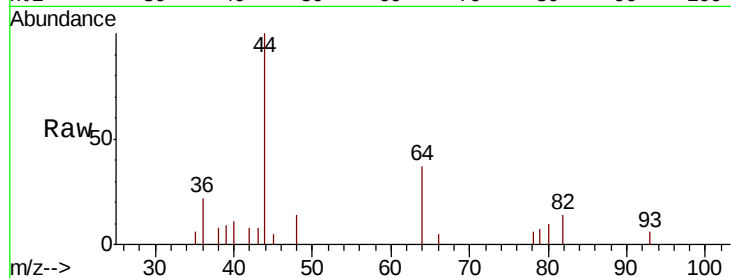
VX1011WBL01

Tot Ion: 64 Resp: 961

Ion Ratio Lower Upper

64 100

66 13.9 25.6 38.4#



#10

Methyl Iodide

Concen: 5.406 ug/l

RT: 2.50 min Scan# 264

Delta R.T. -0.01 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

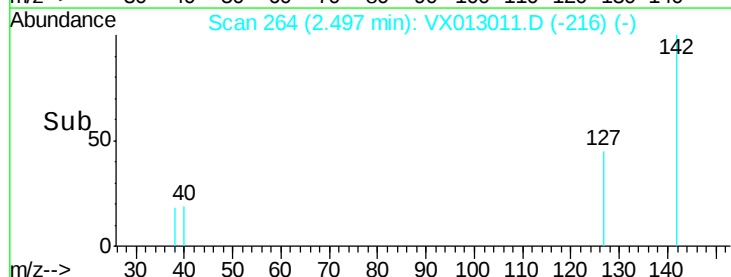
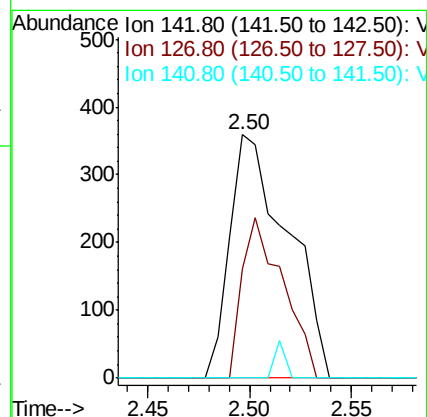
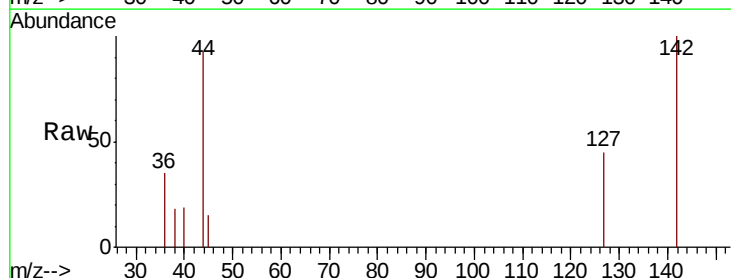
Tgt Ion: 142 Resp: 706

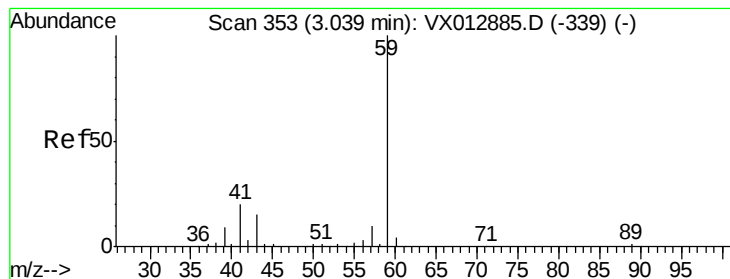
Ion Ratio Lower Upper

142 100

127 46.3 34.9 52.3

141 2.8 11.6 17.4#



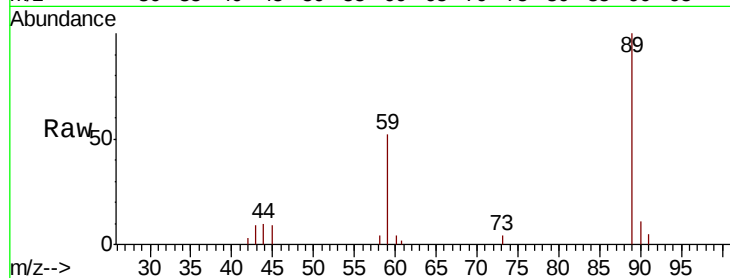


#11

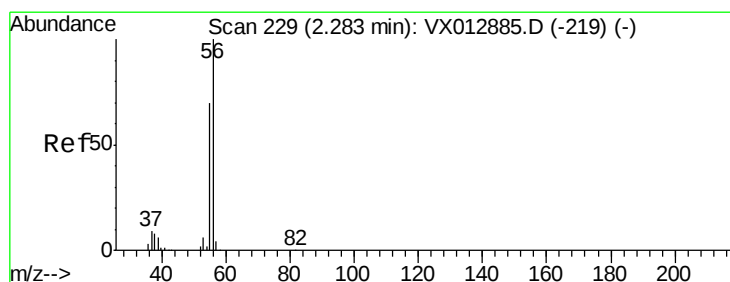
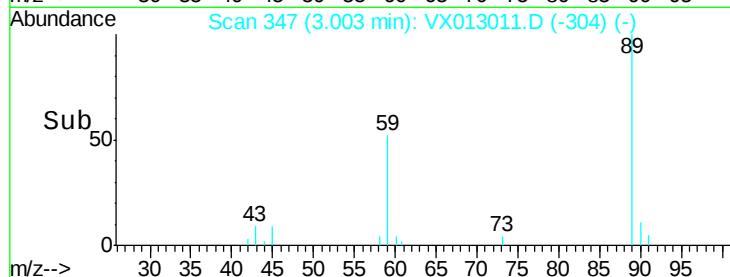
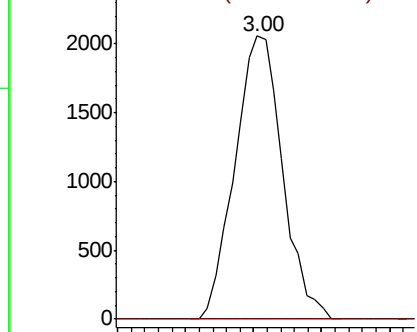
Tert butyl alcohol
 Concen: 8.791 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX013011.D
 Acq: 11 Oct 2019 04:24

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1011WBL01

Tot Ion: 59 Resp: 5029
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#



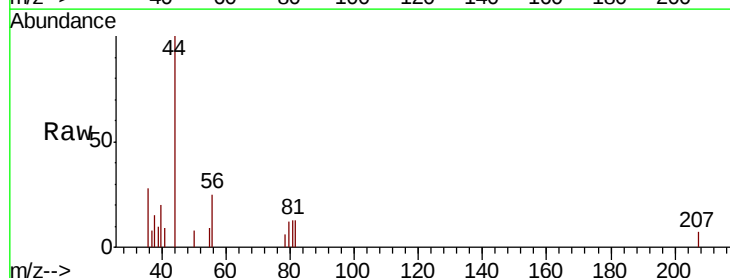
Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



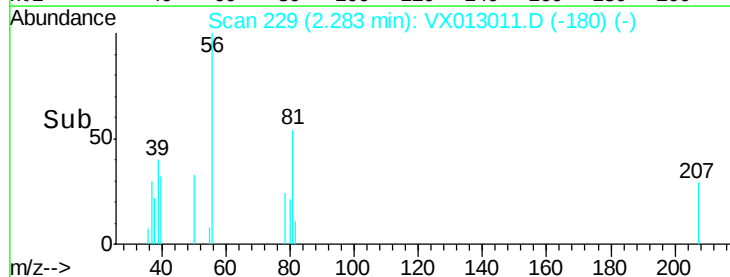
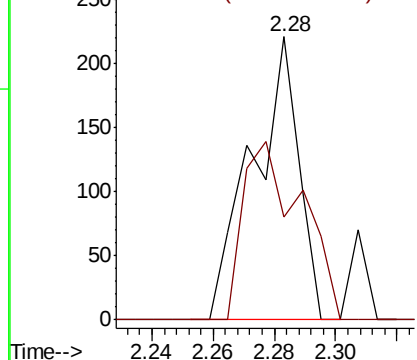
#13

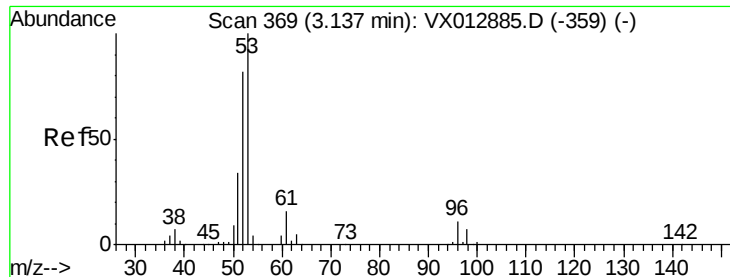
Acrolein
 Concen: 0.568 ug/l
 RT: 2.28 min Scan# 229
 Delta R.T. -0.00 min
 Lab File: VX013011.D
 Acq: 11 Oct 2019 04:24

Tgt Ion: 56 Resp: 231
 Ion Ratio Lower Upper
 56 100
 55 79.7 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.471 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.01 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

Instrument :

MSVOA_X

ClientSampleId :

VX1011WBL01

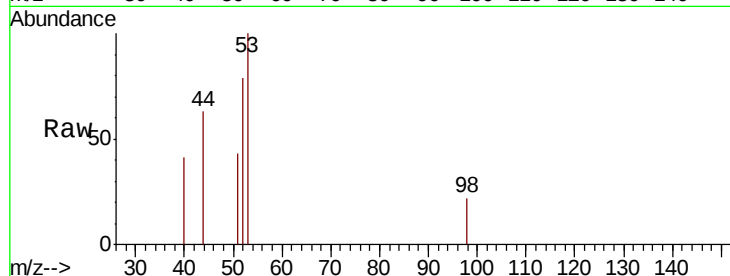
Tot Ion: 53 Resp: 511

Ion Ratio Lower Upper

53 100

52 99.0 66.2 99.2

51 17.6 28.2 42.4#



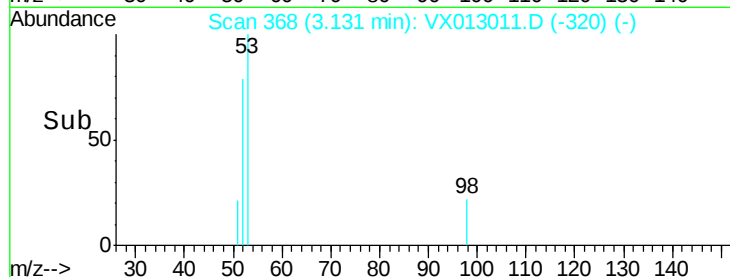
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

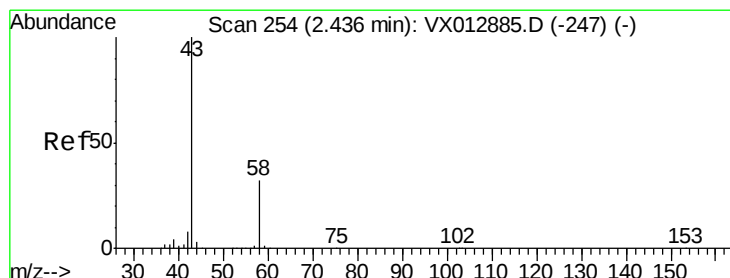
Ion 51.00 (50.70 to 51.70): VX0

3.13

3.15



Time-->



#16

Acetone

Concen: 0.762 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013011.D

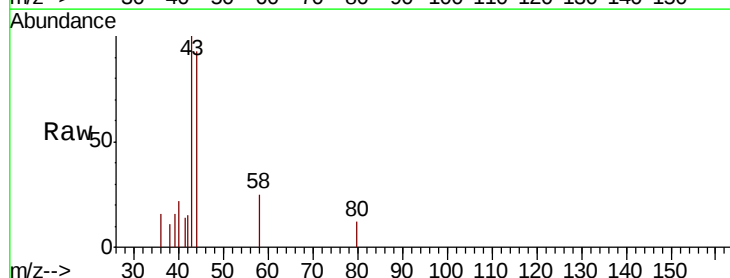
Acq: 11 Oct 2019 04:24

Tgt Ion: 43 Resp: 867

Ion Ratio Lower Upper

43 100

58 24.7 25.4 38.2#

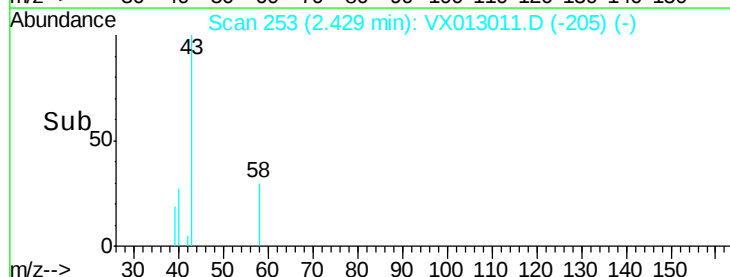


Abundance Ion 43.00 (42.70 to 43.70): VX0

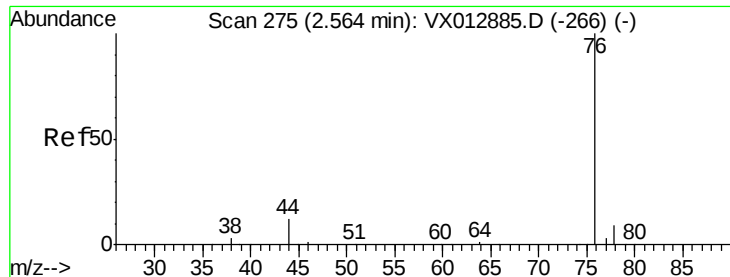
Ion 58.00 (57.70 to 58.70): VX0

2.43

2.50



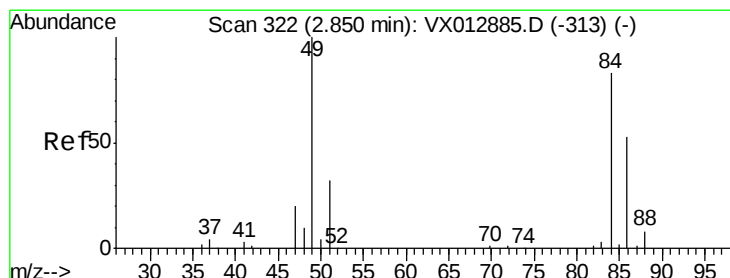
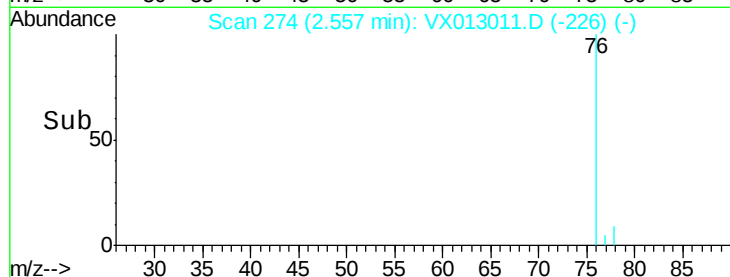
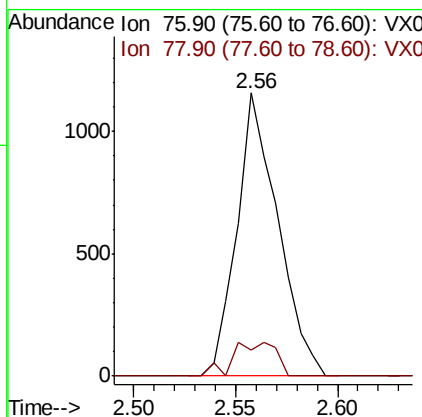
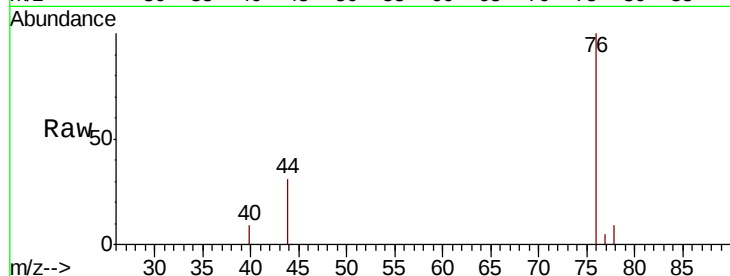
Time-->



#17
Carbon Disulfide
Concen: 0.324 ug/l
RT: 2.56 min Scan# 274
Delta R.T. -0.01 min
Lab File: VX013011.D
Acq: 11 Oct 2019 04:24

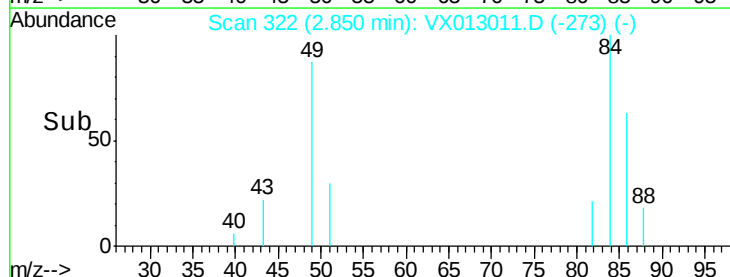
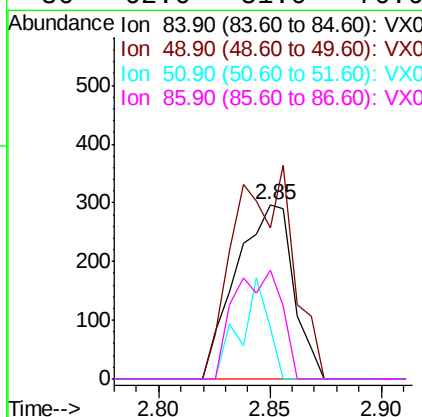
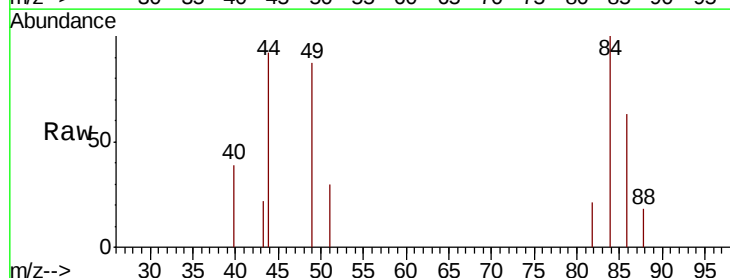
Instrument :
MSVOA_X
ClientSampled :
VX1011WBL01

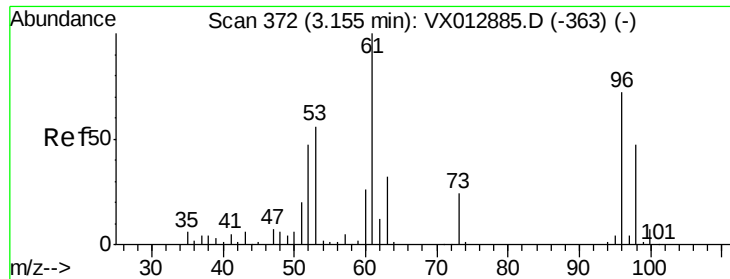
Tot Ion: 76 Resp: 1611
Ion Ratio Lower Upper
76 100
78 9.2 7.1 10.7



#20
Methylene Chloride
Concen: 0.254 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013011.D
Acq: 11 Oct 2019 04:24

Tgt Ion: 84 Resp: 532
Ion Ratio Lower Upper
84 100
49 86.5 96.6 144.8#
51 29.6 30.7 46.1#
86 62.6 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 0.222 ug/l

RT: 3.15 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

Instrument :

MSVOA_X

ClientSampleId :

VX1011WBL01

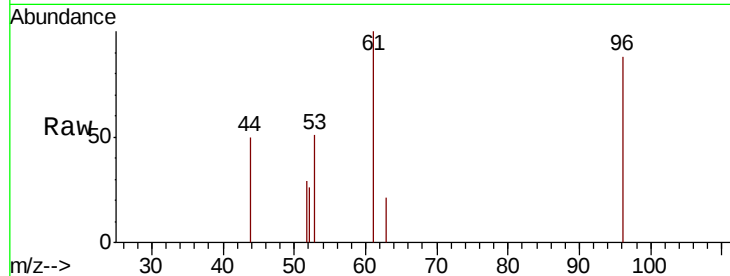
Tot Ion: 96 Resp: 416

Ion Ratio Lower Upper

96 100

61 113.0 110.4 165.6

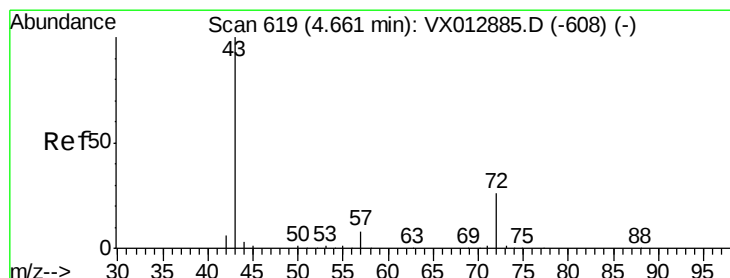
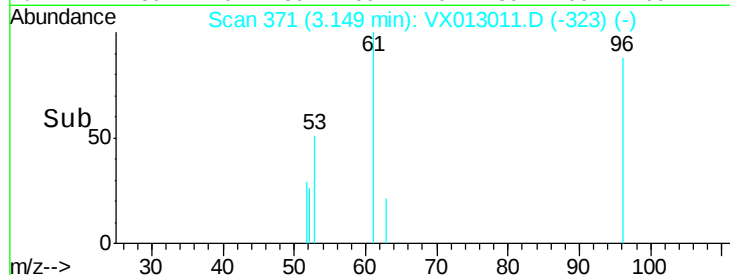
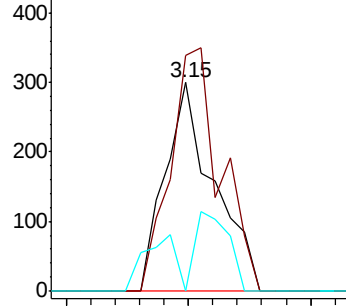
98 0.0 51.5 77.3#



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: 0.243 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX013011.D

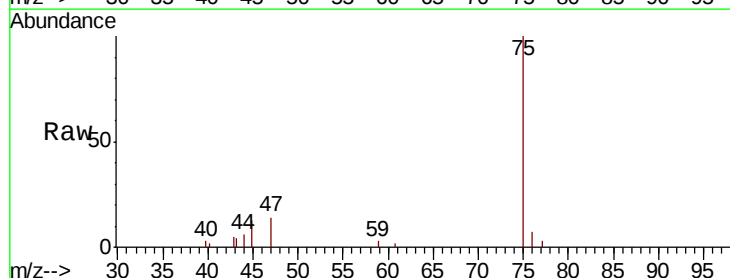
Acq: 11 Oct 2019 04:24

Tgt Ion: 43 Resp: 383

Ion Ratio Lower Upper

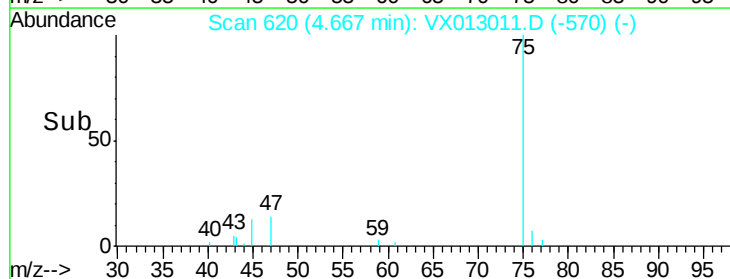
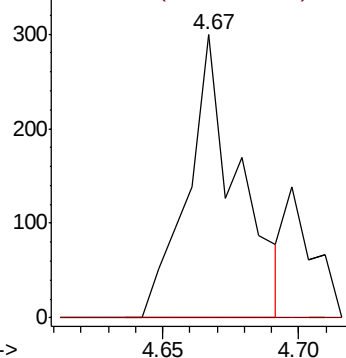
43 100

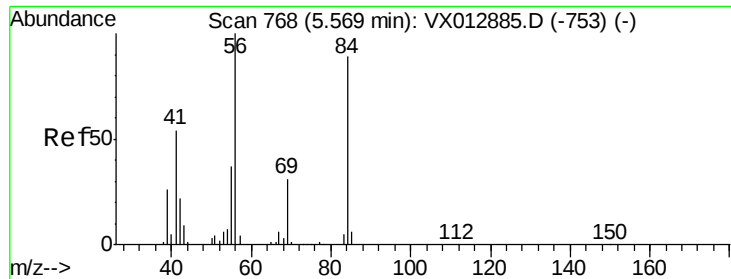
72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

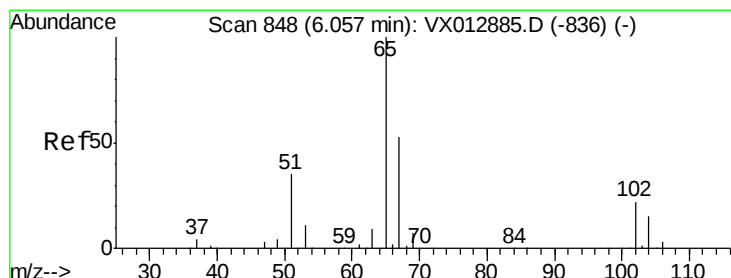
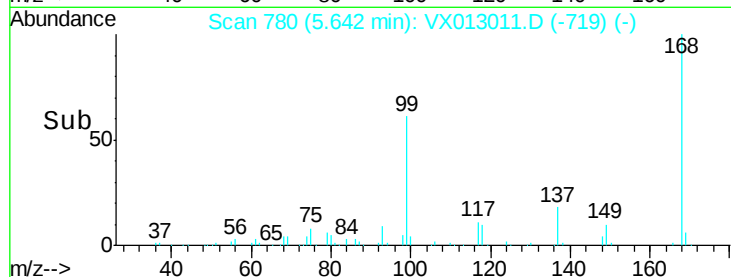
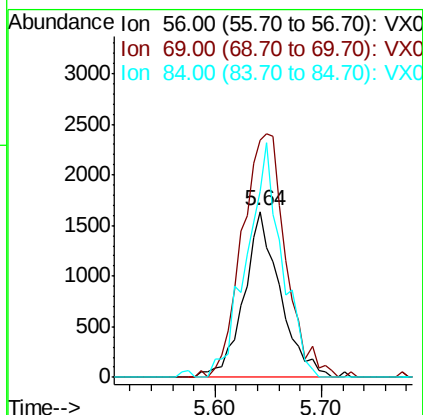
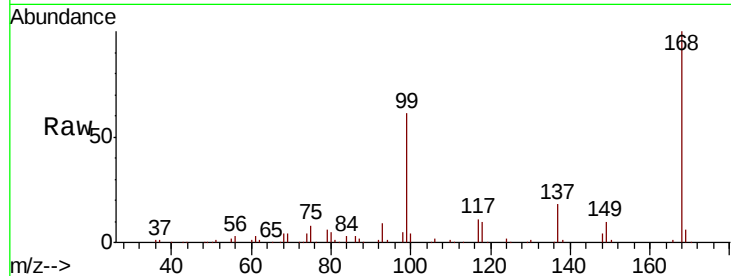




#31
Cyclohexane
Concen: 1.249 ug/l
RT: 5.64 min Scan# 780
Delta R.T. 0.07 min
Lab File: VX013011.D
Acq: 11 Oct 2019 04:24

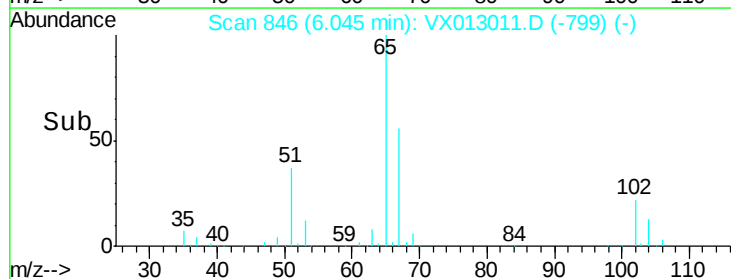
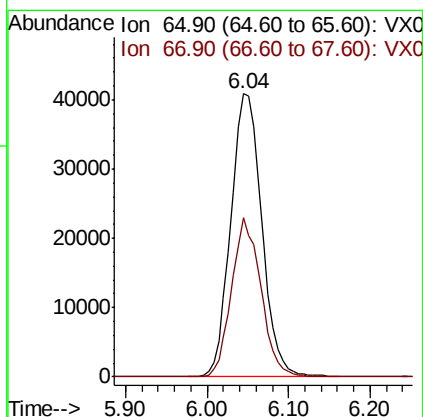
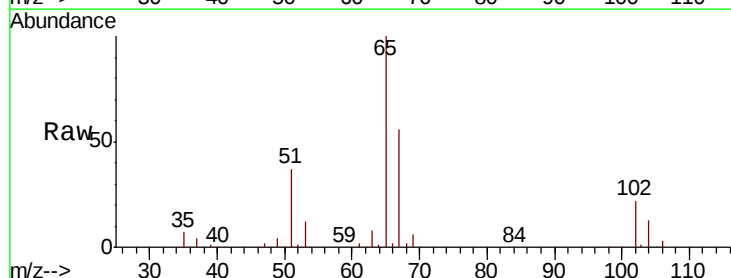
Instrument :
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VX1011WBL01

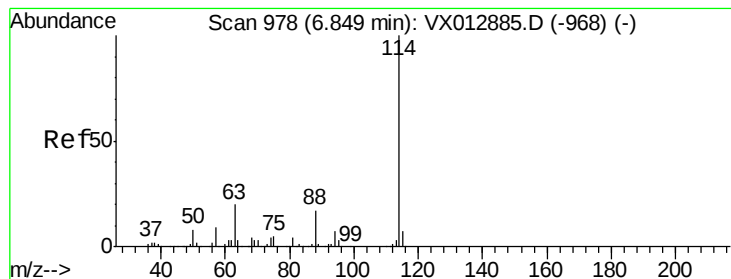
Tot Ion: 56 Resp: 3912
Ion Ratio Lower Upper
56 100
69 142.5 25.2 37.8#
84 111.9 71.3 106.9#



#33
1,2-Dichloroethane-d4
Concen: 49.860 ug/l
RT: 6.04 min Scan# 846
Delta R.T. -0.01 min
Lab File: VX013011.D
Acq: 11 Oct 2019 04:24

Tgt Ion: 65 Resp: 107603
Ion Ratio Lower Upper
65 100
67 53.0 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

Instrument :

MSVOA_X

ClientSampleId :

VX1011WBL01

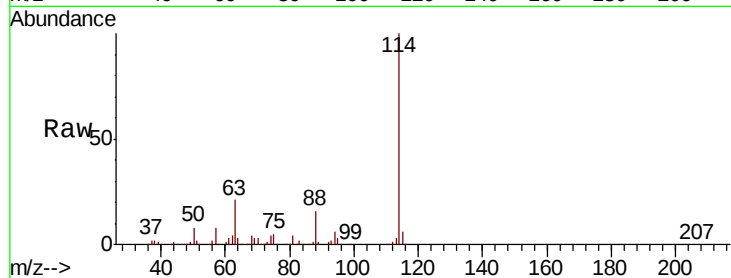
Tot Ion:114 Resp: 281412

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

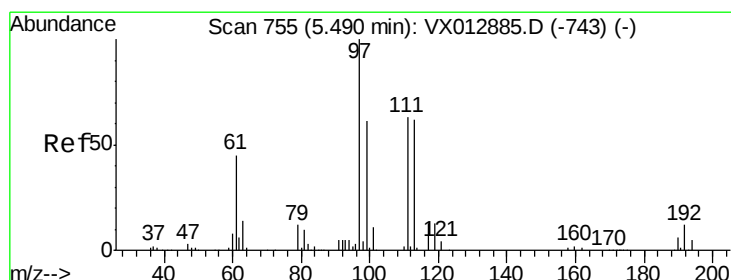
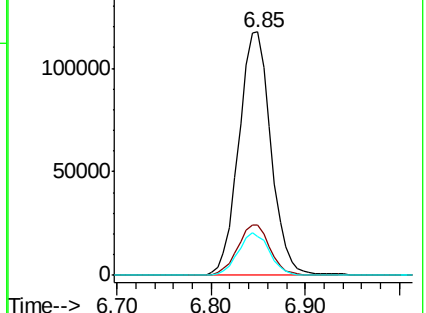
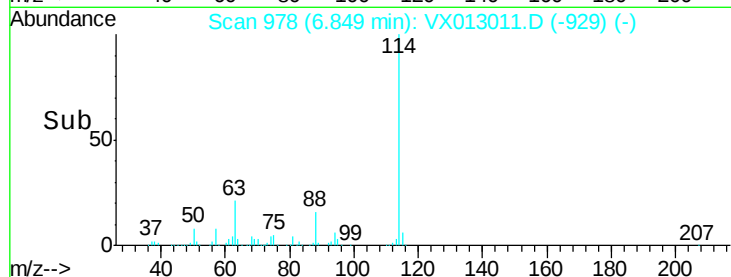
88 16.1 0.0 33.8



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: 51.940 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

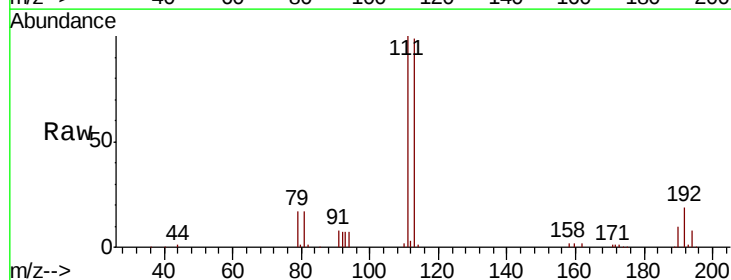
Tgt Ion:113 Resp: 83892

Ion Ratio Lower Upper

113 100

111 101.7 83.2 124.8

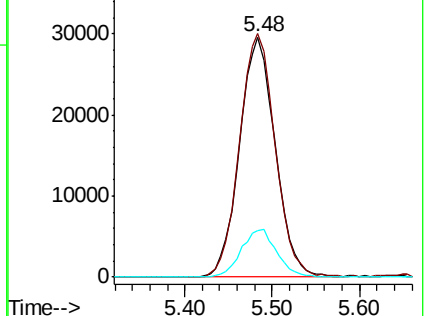
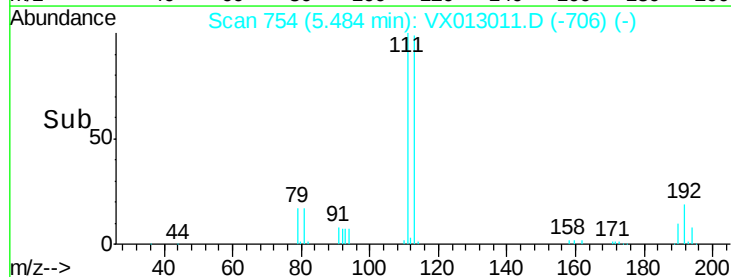
192 19.8 15.4 23.2

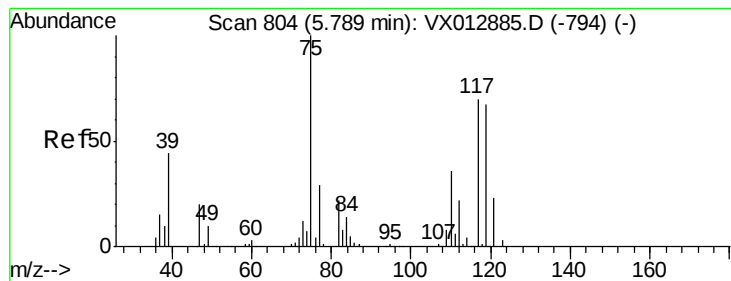


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.582 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

Instrument :

MSVOA_X

ClientSampleId :

VX1011WBL01

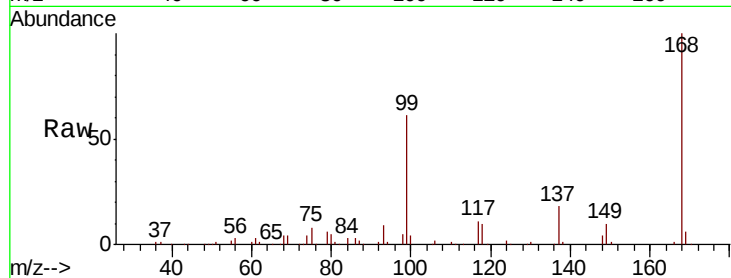
Tot Ion: 75 Resp: 13812

Ion Ratio Lower Upper

75 100

110 9.1 17.6 52.9#

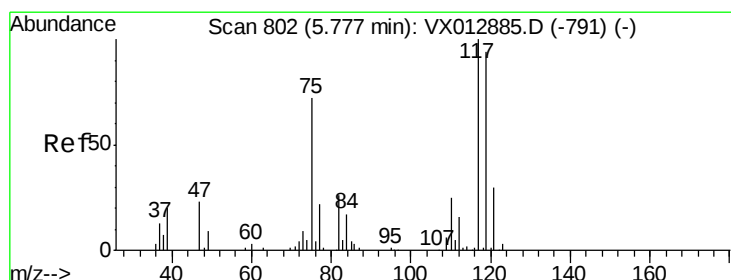
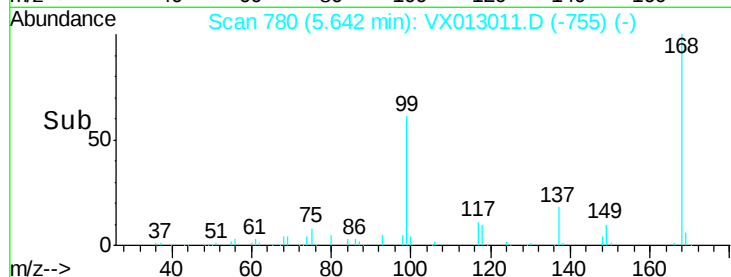
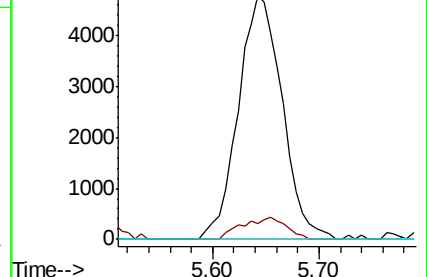
77 0.0 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX012885.D (-794) (-)

Ion 109.90 (109.60 to 110.60): VX012885.D (-794) (-)

Ion 76.90 (76.60 to 77.60): VX012885.D (-794) (-)



#38

Carbon Tetrachloride

Concen: 7.461 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

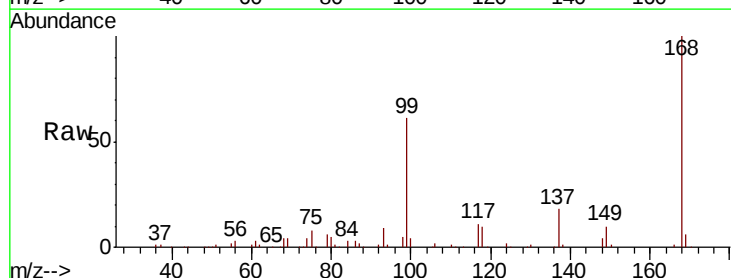
Tgt Ion: 117 Resp: 17969

Ion Ratio Lower Upper

117 100

119 4.7 74.5 111.7#

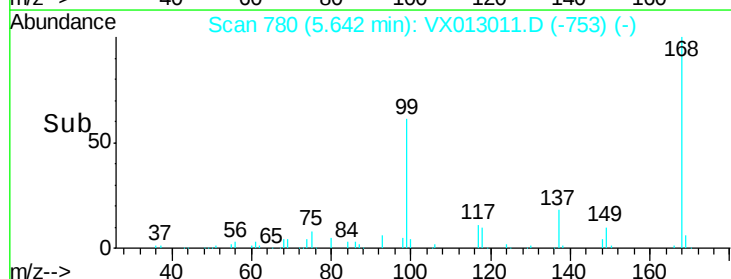
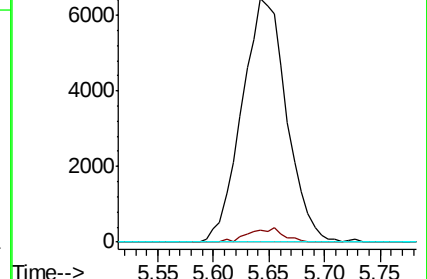
121 0.0 24.2 36.4#

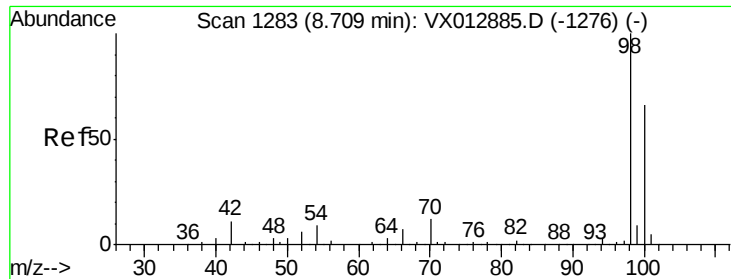


Abundance Ion 116.80 (116.50 to 117.50): VX012885.D (-791) (-)

Ion 118.80 (118.50 to 119.50): VX012885.D (-791) (-)

Ion 120.80 (120.50 to 121.50): VX012885.D (-791) (-)

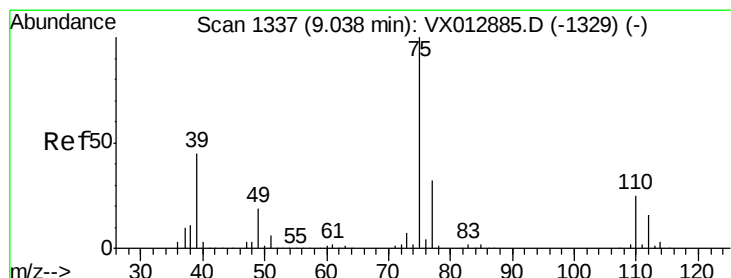
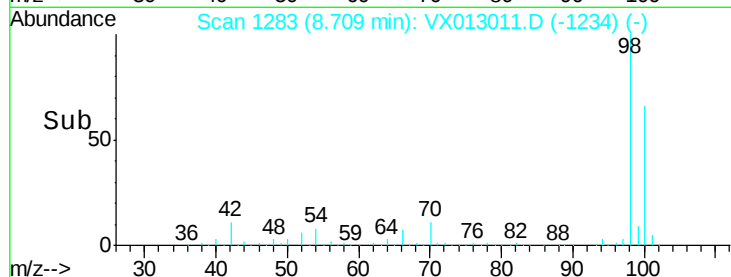
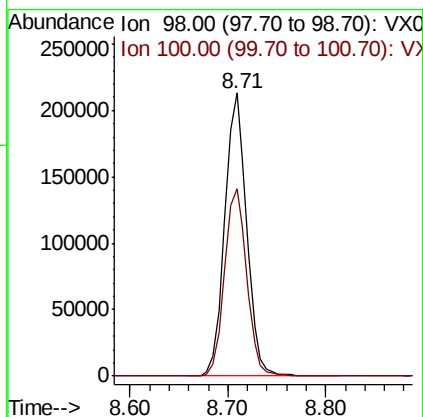
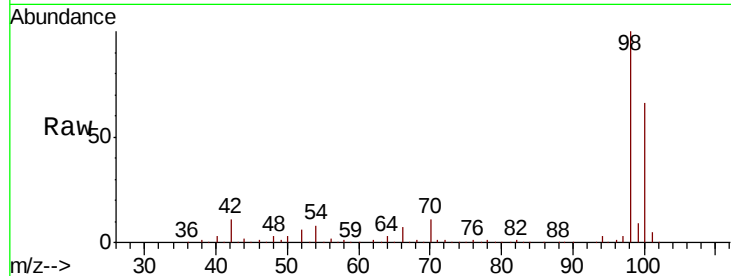




#50
Toluene-d8
Concen: 52.438 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013011.D
Acq: 11 Oct 2019 04:24

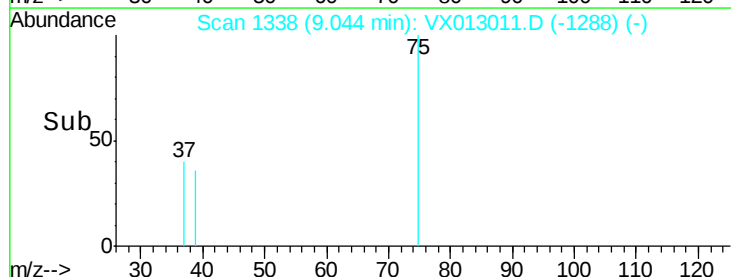
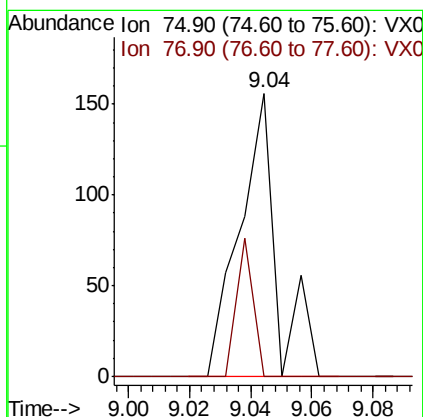
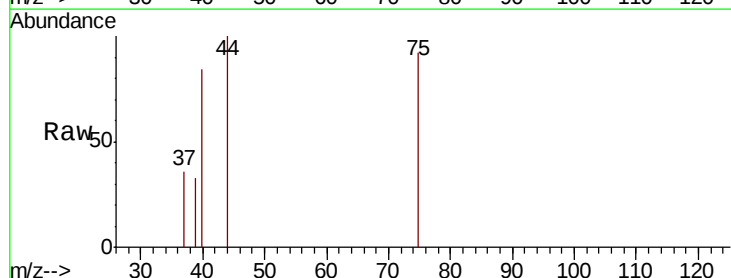
Instrument :
MSVOA_X
ClientSampleId :
VX1011WBL01

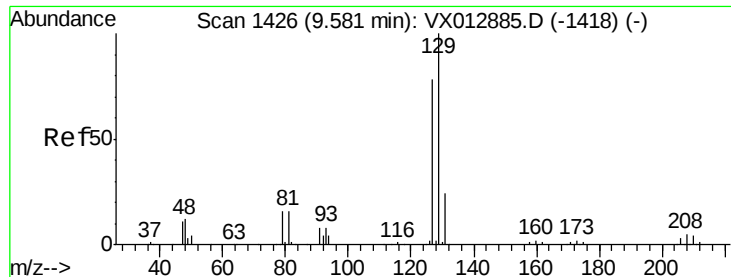
Tot Ion: 98 Resp: 330333
Ion Ratio Lower Upper
98 100
100 67.4 53.4 80.2



#53
t-1,3-Dichloropropene
Concen: 2.210 ug/l
RT: 9.04 min Scan# 1338
Delta R.T. 0.01 min
Lab File: VX013011.D
Acq: 11 Oct 2019 04:24

Tgt Ion: 75 Resp: 131
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#





#60

Dibromochloromethane

Concen: 1.906 ug/l

RT: 9.32 min Scan# 1384

Delta R.T. -0.26 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

Instrument :

MSVOA_X

ClientSampled :

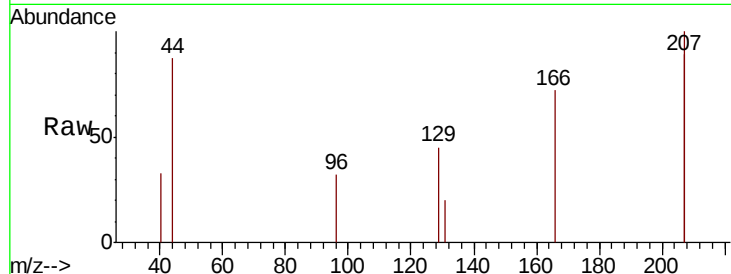
VX1011WBL01

Tot Ion:129 Resp: 105

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

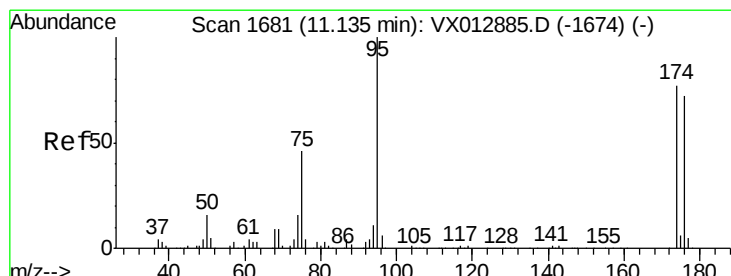
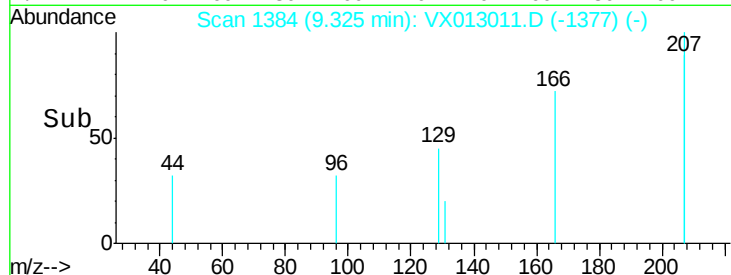
100

50

0

Time-->

9.30 9.32 9.34



#62

4-Bromofluorobenzene

Concen: 44.564 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

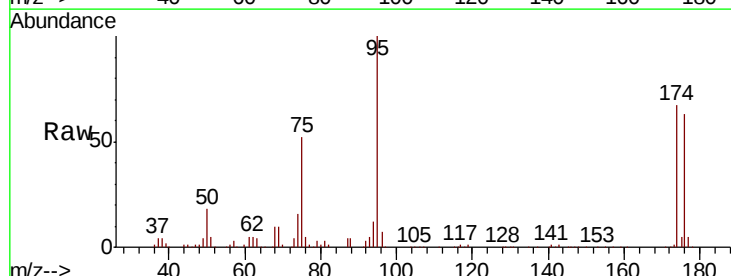
Tgt Ion: 95 Resp: 109081

Ion Ratio Lower Upper

95 100

174 71.6 0.0 143.4

176 69.1 0.0 136.0



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

100000

80000

60000

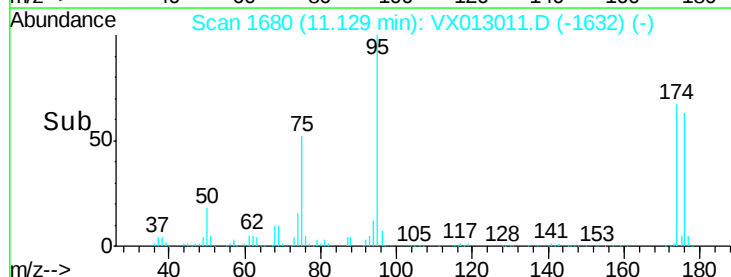
40000

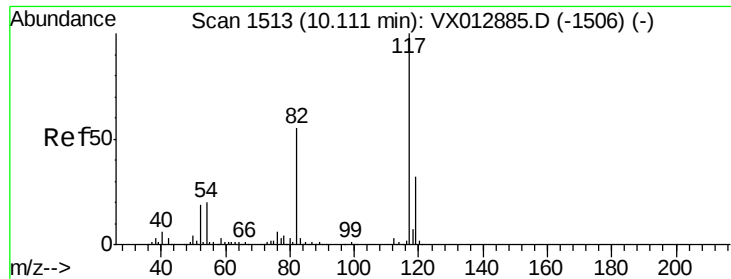
20000

0

Time-->

11.10 11.13 11.20

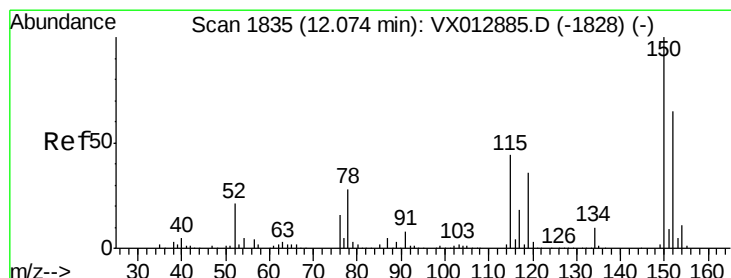
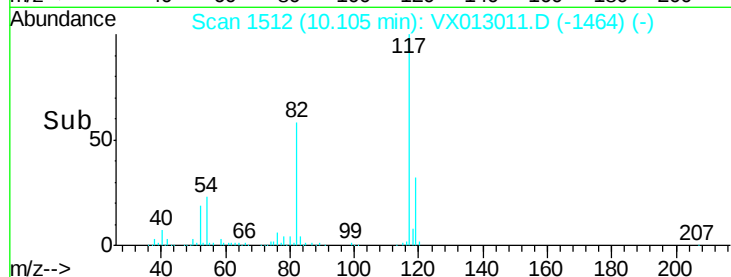
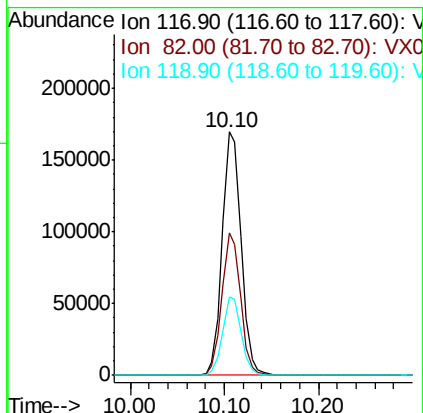
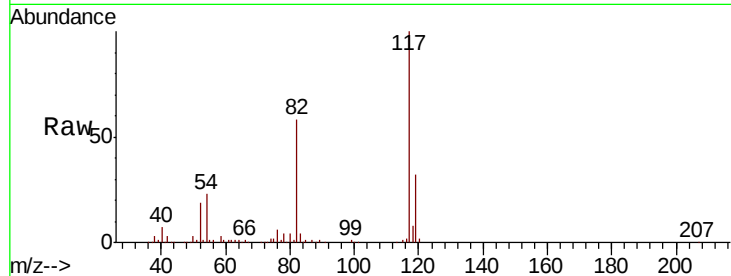




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013011.D
Acq: 11 Oct 2019 04:24

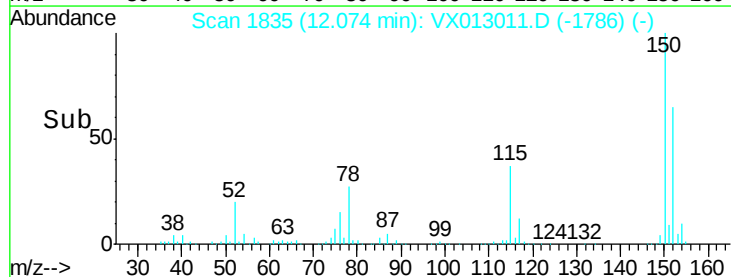
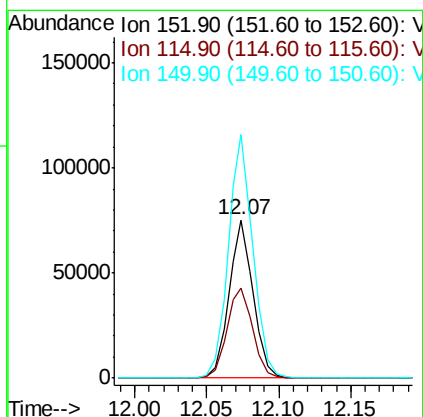
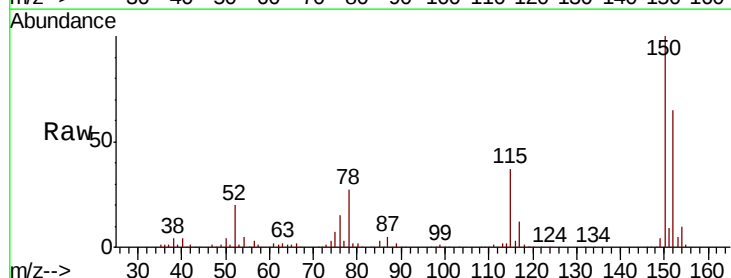
Instrument :
MSVOA_X
ClientSampleId :
VX1011WBL01

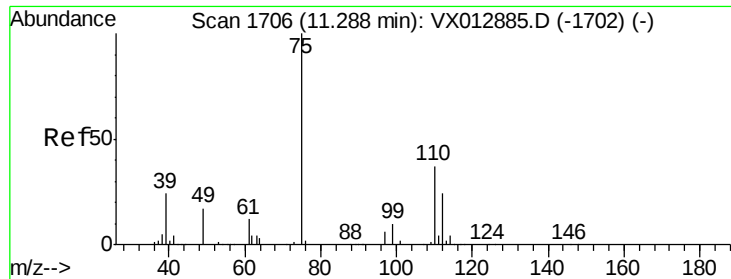
Tot Ion:117 Resp: 237502
Ion Ratio Lower Upper
117 100
82 58.4 44.1 66.1
119 32.2 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013011.D
Acq: 11 Oct 2019 04:24

Tgt Ion:152 Resp: 88451
Ion Ratio Lower Upper
152 100
115 60.7 44.5 133.5
150 156.4 0.0 353.4





#76

1,2,3-Trichloropropane

Concen: 27.925 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

Instrument :

MSVOA_X

ClientSampleId :

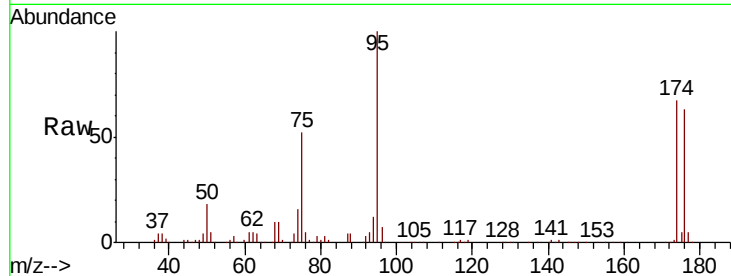
VX1011WBL01

Tot Ion: 75 Resp: 54784

Ion Ratio Lower Upper

75 100

77 1.2 22.9 68.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

40000

30000

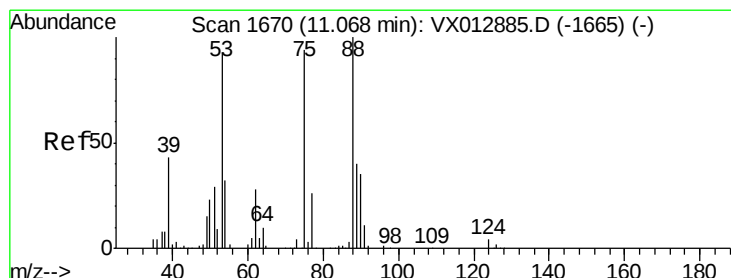
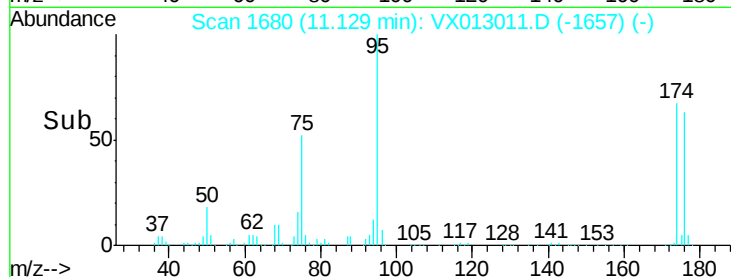
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 70.027 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

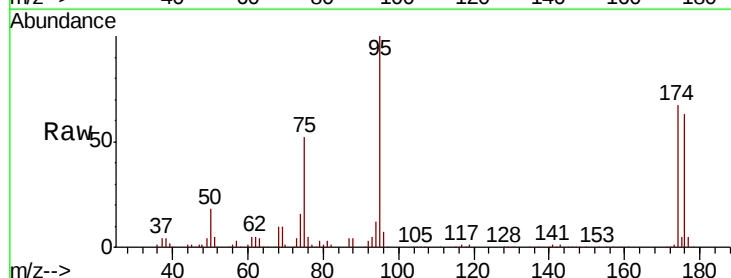
Tgt Ion: 75 Resp: 54784

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



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

60000

50000

40000

30000

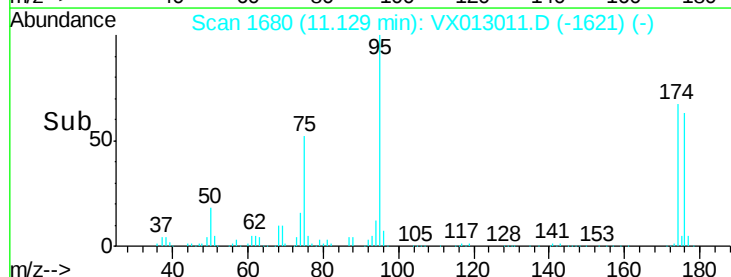
20000

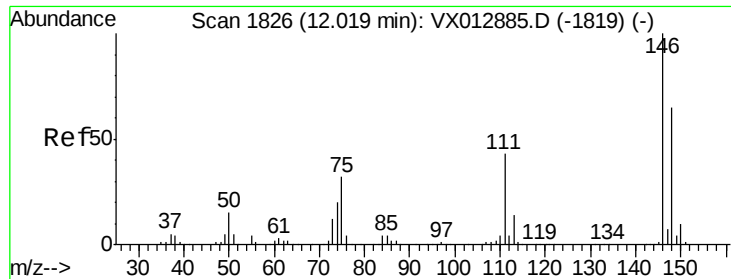
10000

0

Time-->

11.10 11.20

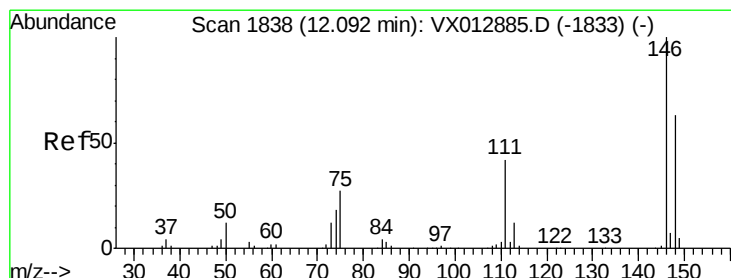
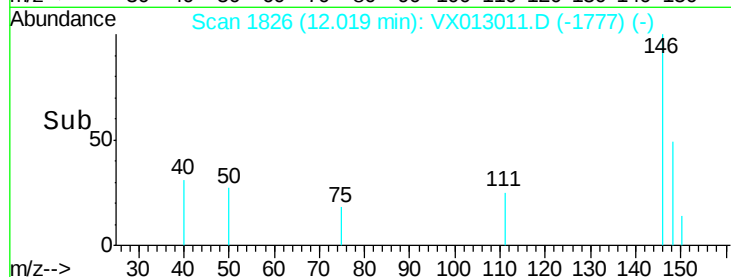
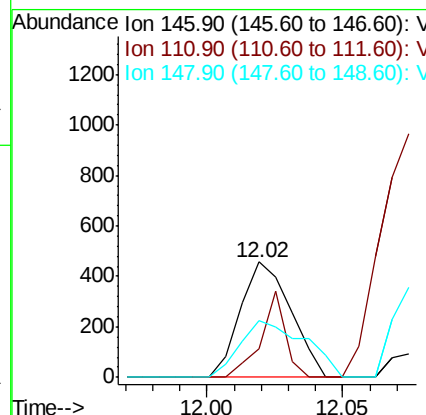
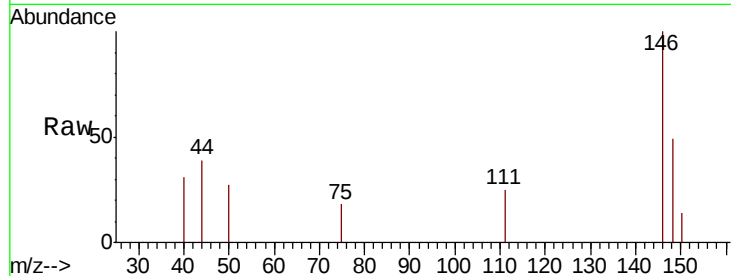




#87
 1,3-Dichlorobenzene
 Concen: 0.206 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.00 min
 Lab File: VX013011.D
 Acq: 11 Oct 2019 04:24

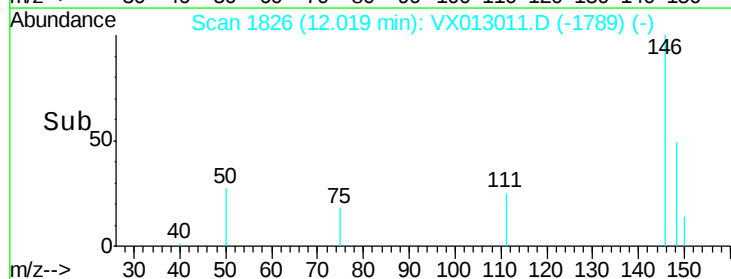
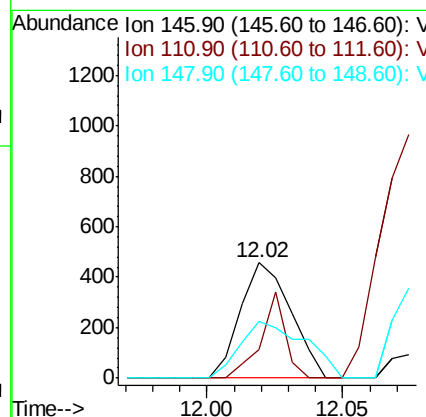
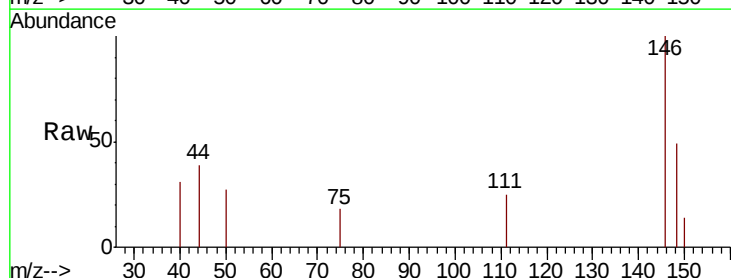
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1011WBL01

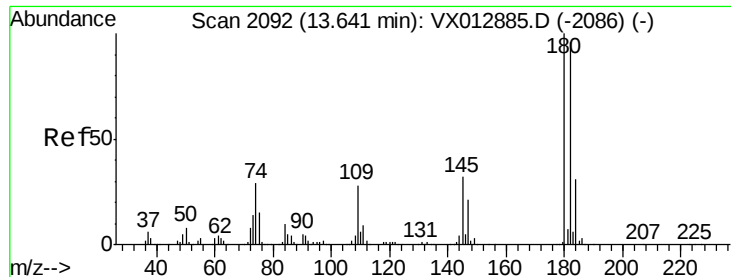
Tot Ion:146 Resp: 585
 Ion Ratio Lower Upper
 146 100
 111 35.7 21.1 63.4
 148 63.4 31.6 95.0



#88
 1,4-Dichlorobenzene
 Concen: 0.203 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.07 min
 Lab File: VX013011.D
 Acq: 11 Oct 2019 04:24

Tgt Ion:146 Resp: 585
 Ion Ratio Lower Upper
 146 100
 111 35.7 21.4 64.3
 148 63.4 32.1 96.5





#93

1,2,4-Trichlorobenzene

Concen: 0.354 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

Instrument :

MSVOA_X

ClientSampleId :

VX1011WBL01

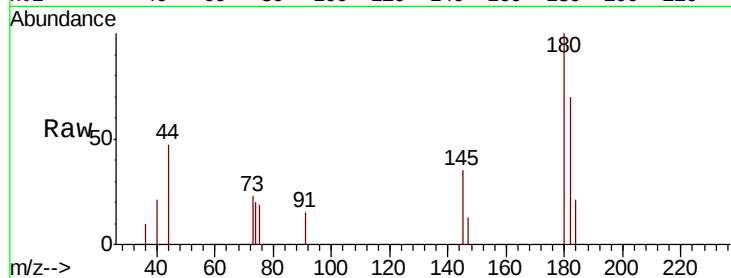
Tot Ion:180 Resp: 619

Ion Ratio Lower Upper

180 100

182 94.8 46.8 140.4

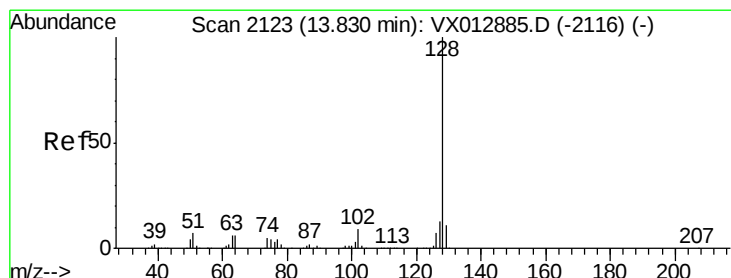
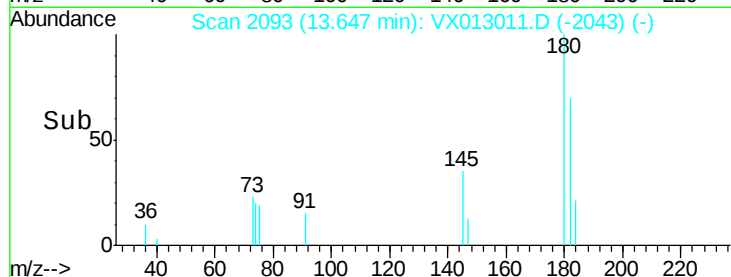
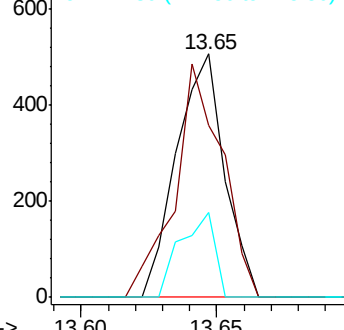
145 25.0 16.2 48.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 0.316 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX013011.D

Acq: 11 Oct 2019 04:24

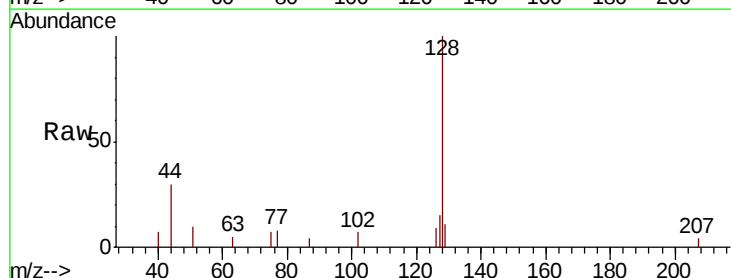
Tgt Ion:128 Resp: 1914

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.4

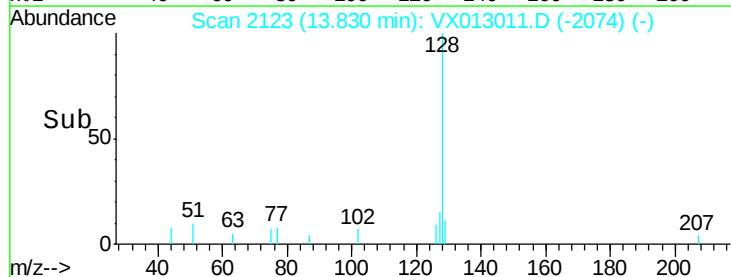
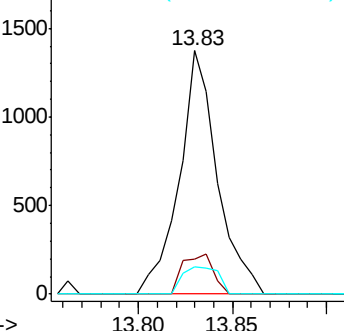
129 10.7 8.8 13.2

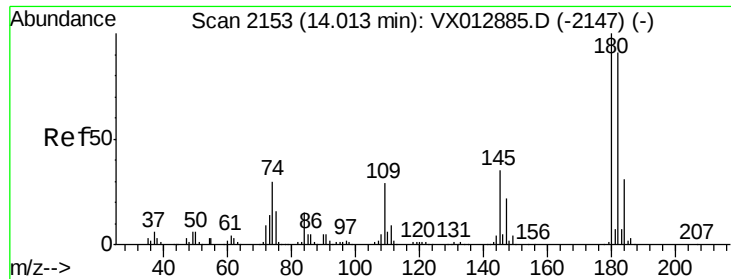


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

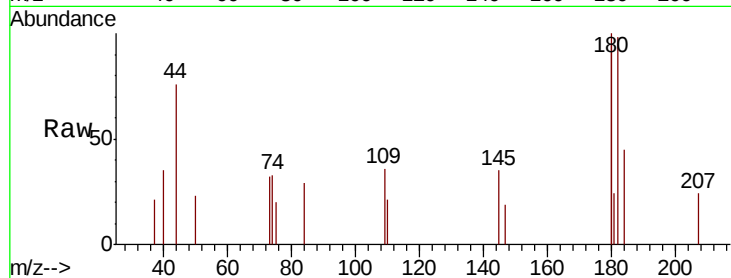




#96
 1,2,3-Trichlorobenzene
 Concen: 0.433 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VX013011.D
 Acq: 11 Oct 2019 04:24

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1011WBL01

Tot Ion	Ion	Ratio	Lower	Upper
782	180	100		
	182	73.1	47.5	142.5
	145	24.0	17.4	52.3



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

