

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072318\
 Data File : VX003596.D
 Acq On : 23 Jul 2018 11:37
 Operator : JC/SP
 Sample : J3170-03DL 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-071018DL

Quant Time: Jul 24 01:40:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	277530	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	412998	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	387731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	210979	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	162993	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
35) Dibromofluoromethane	5.51	113	151348	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
50) Toluene-d8	8.72	98	587481	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	11.14	95	198199	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	

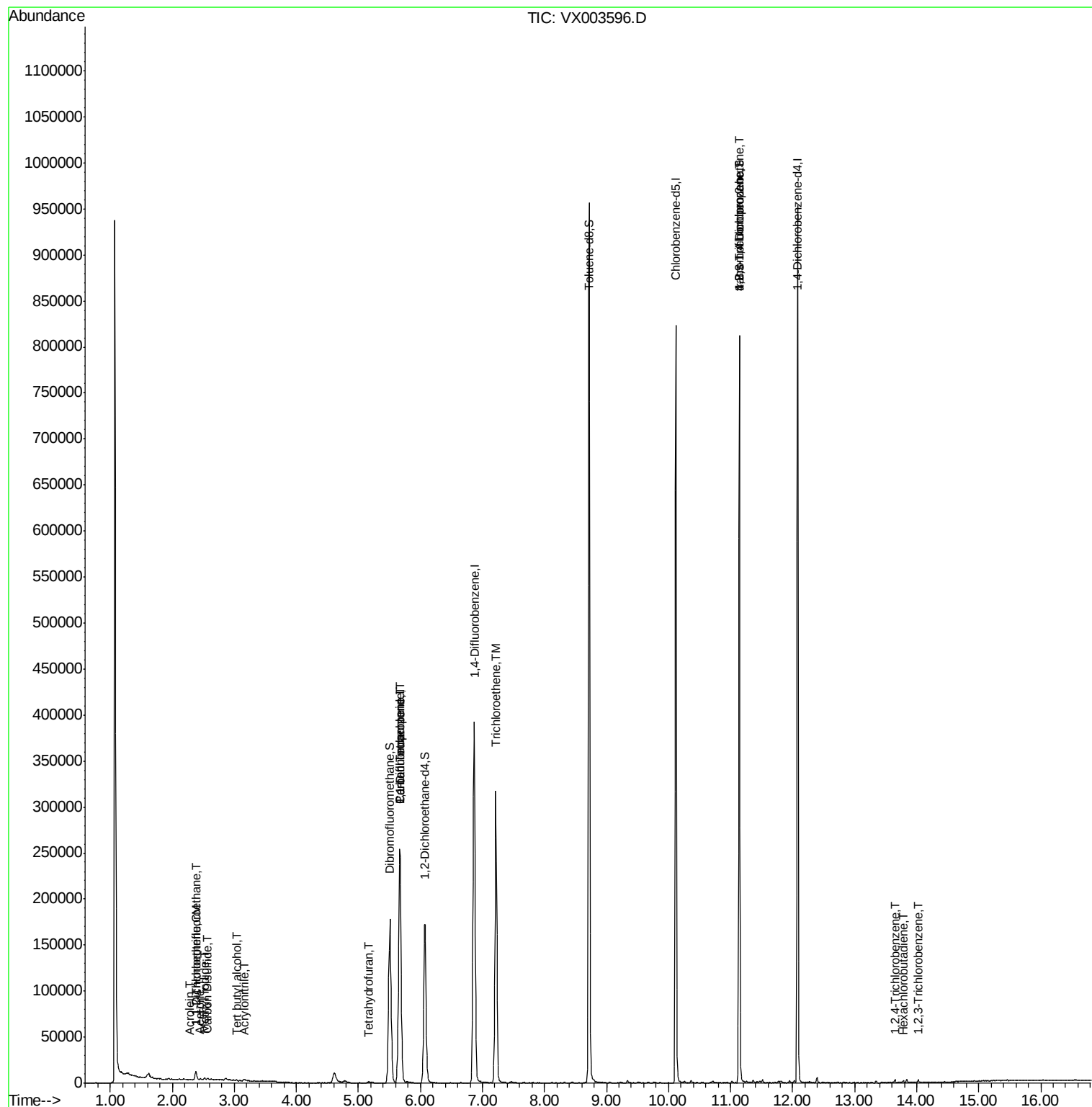
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	209	Below Cal	#	43
3) Chloromethane	1.32	50	559	Below Cal	#	78
5) Bromomethane	1.64	94	1887	Below Cal		96
9) 1,1,2-Trichlorotrifluoroet	2.38	101	2700	0.877	ug/l	91
10) Methyl Iodide	2.52	142	2423	0.655	ug/l	97
11) Tert butyl alcohol	3.03	59	316	0.486	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	906	0.320	ug/l #	68
13) Acrolein	2.29	56	72	0.245	ug/l #	1
15) Acrylonitrile	3.15	53	438	0.265	ug/l #	74
16) Acetone	2.45	43	559	0.450	ug/l #	56
17) Carbon Disulfide	2.57	76	2243	0.291	ug/l	96
20) Methylene Chloride	2.86	84	868	Below Cal	#	85
29) Tetrahydrofuran	5.17	42	1089	0.792	ug/l	95
36) 1,1-Dichloropropene	5.67	75	16305	3.657	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24343	5.566	ug/l #	15
44) Trichloroethene	7.21	130	132008	32.879	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	94105	24.829	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	94105	69.545	ug/l #	7
93) 1,2,4-Trichlorobenzene	13.65	180	1264	0.227	ug/l	95
94) Hexachlorobutadiene	13.79	225	616	0.230	ug/l	91
96) 1,2,3-Trichlorobenzene	14.02	180	1116	0.202	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

Instrument :

MSVOA_X

ClientSampleId :

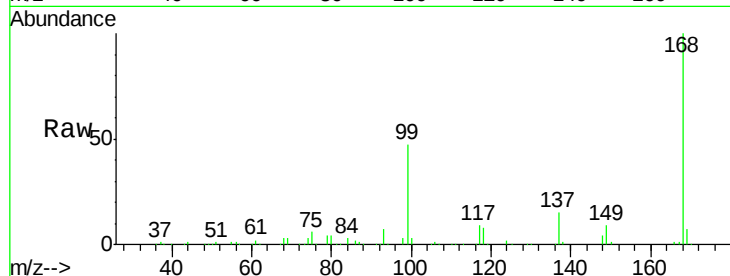
TT101D2-071018DL

Tgt Ion:168 Resp: 277530

Ion Ratio Lower Upper

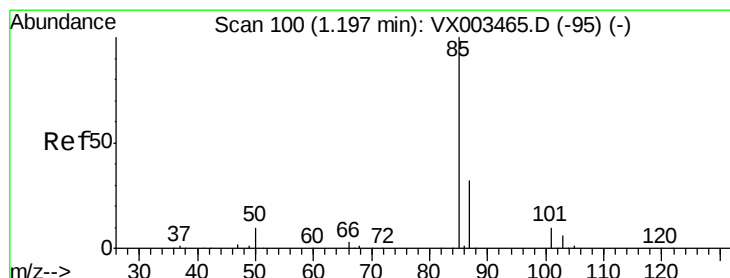
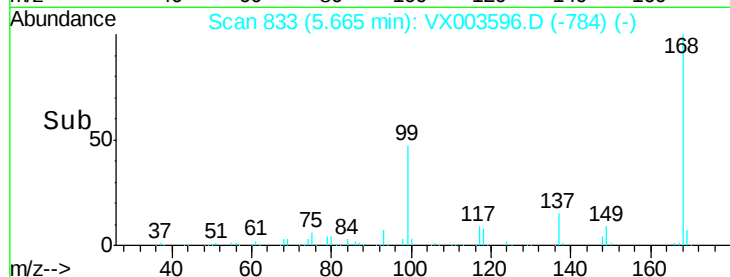
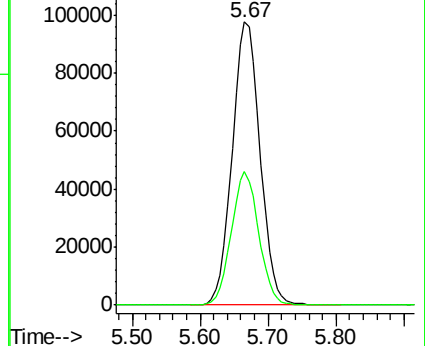
168 100

99 47.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003596.D

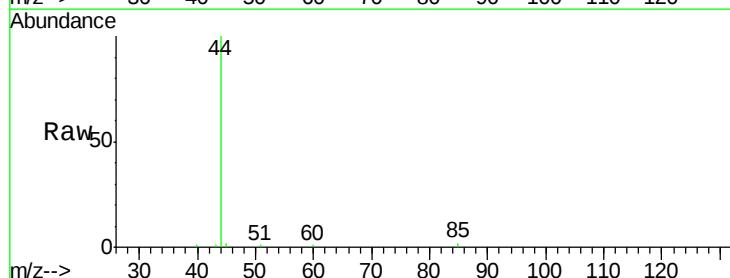
Acq: 23 Jul 2018 11:37

Tgt Ion: 85 Resp: 209

Ion Ratio Lower Upper

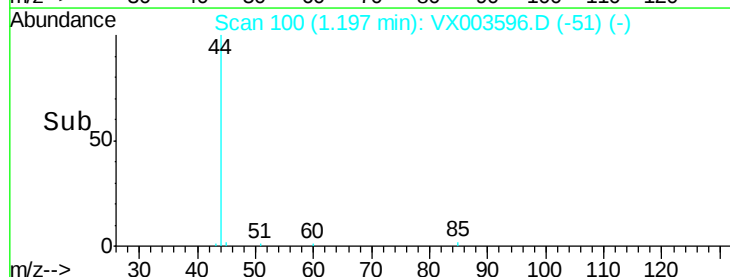
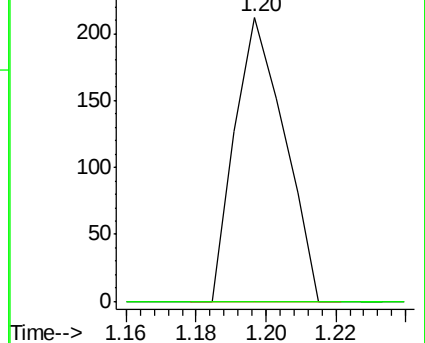
85 100

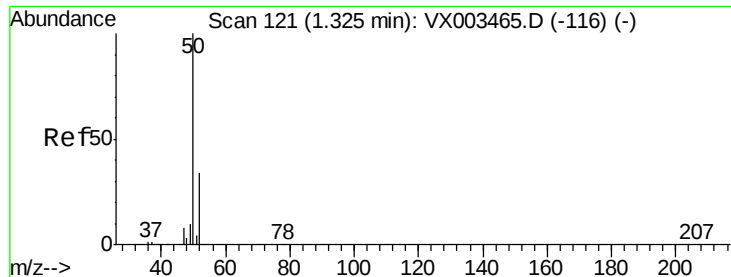
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

Instrument :

MSVOA_X

ClientSampleId :

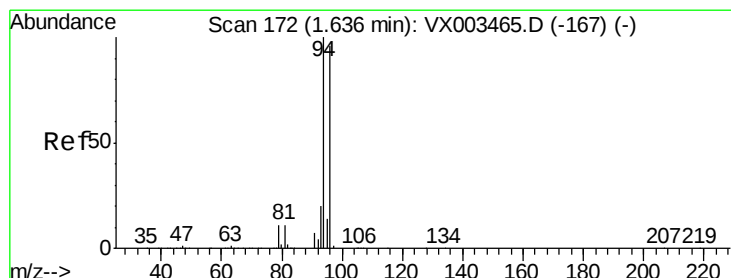
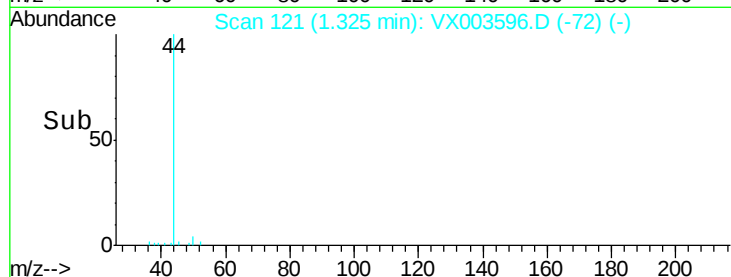
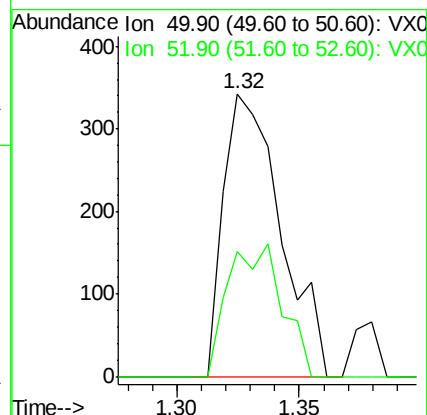
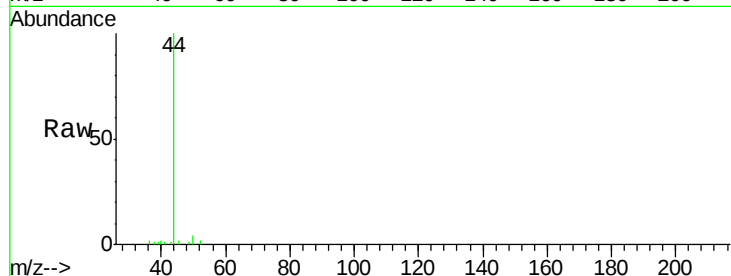
TT101D2-071018DL

Tgt Ion: 50 Resp: 559

Ion Ratio Lower Upper

50 100

52 44.3 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003596.D

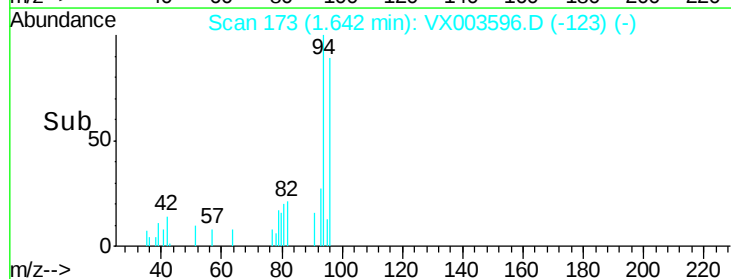
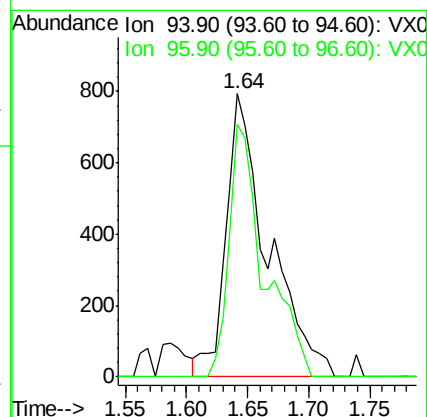
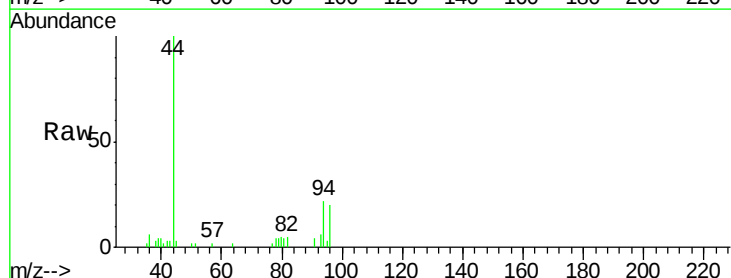
Acq: 23 Jul 2018 11:37

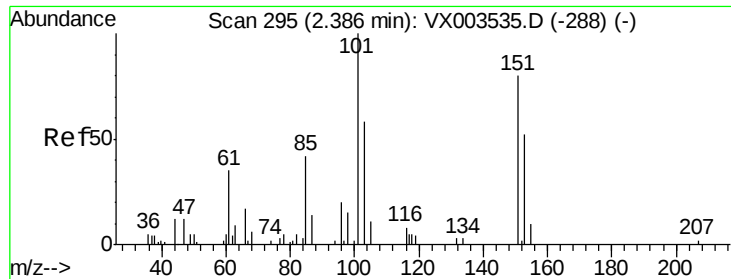
Tgt Ion: 94 Resp: 1887

Ion Ratio Lower Upper

94 100

96 89.4 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.877 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.00 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-071018DL

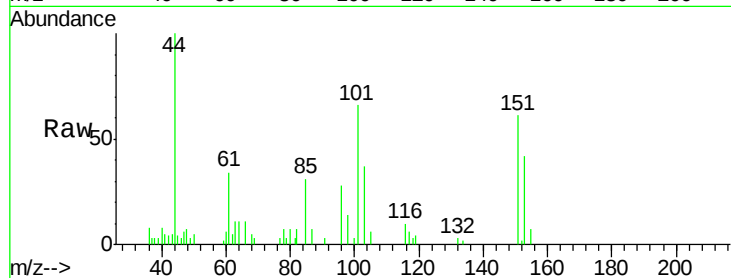
Tgt Ion:101 Resp: 2700

Ion Ratio Lower Upper

101 100

85 43.8 36.0 54.0

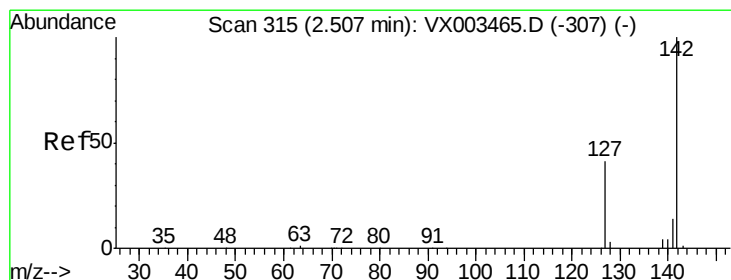
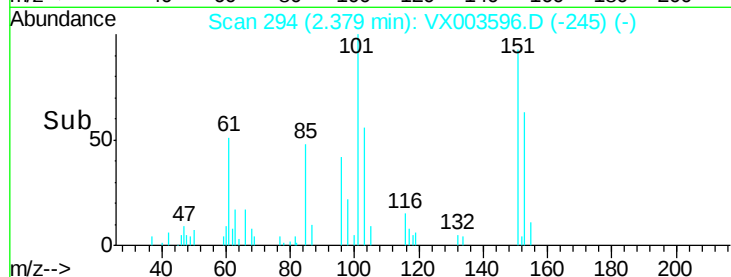
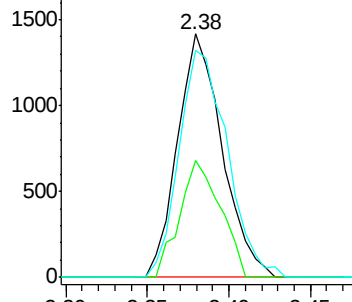
151 100.1 70.9 106.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.655 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

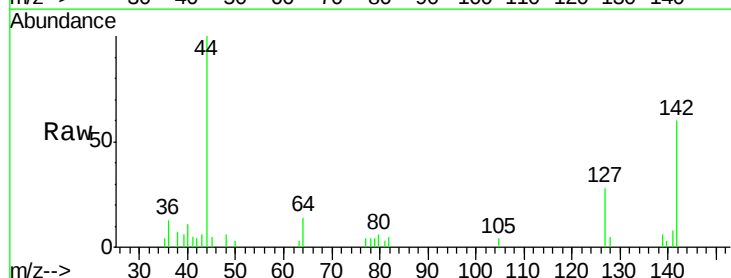
Tgt Ion:142 Resp: 2423

Ion Ratio Lower Upper

142 100

127 43.4 36.6 55.0

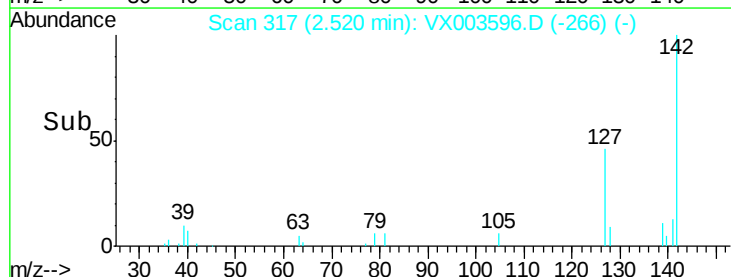
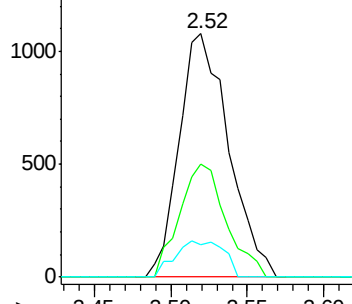
141 14.6 11.3 16.9

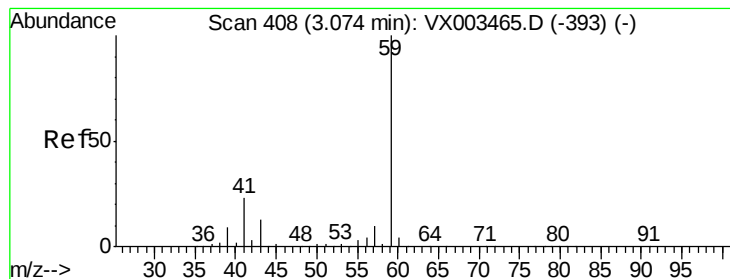


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



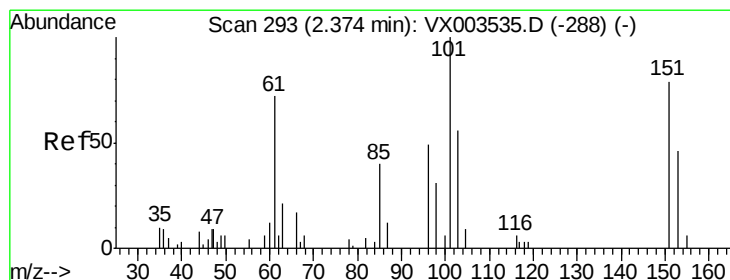
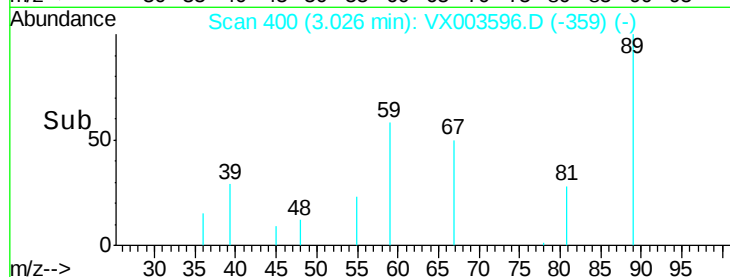
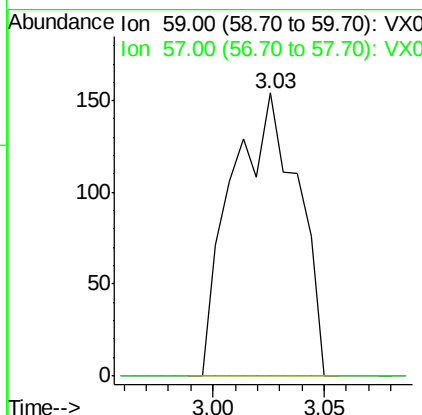
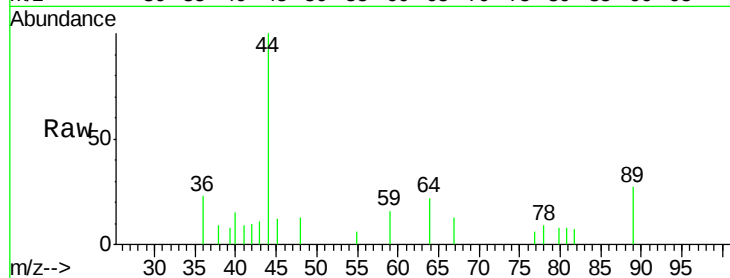


#11

Tert butyl alcohol
 Concen: 0.486 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.05 min
 Lab File: VX003596.D
 Acq: 23 Jul 2018 11:37

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-071018DL

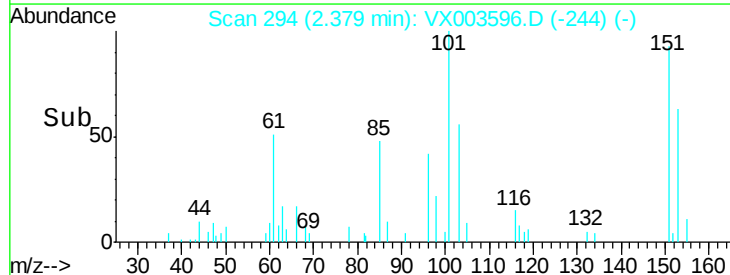
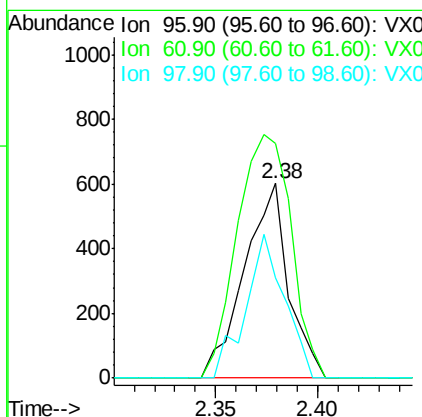
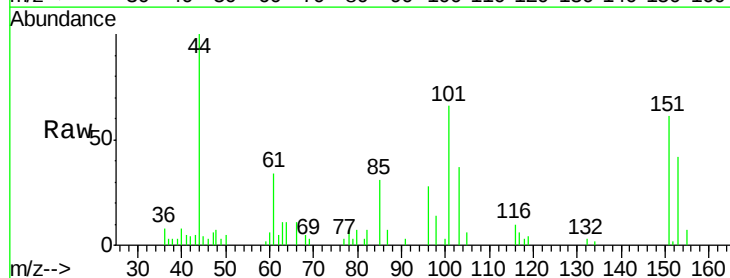
Tgt Ion: 59 Resp: 316
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

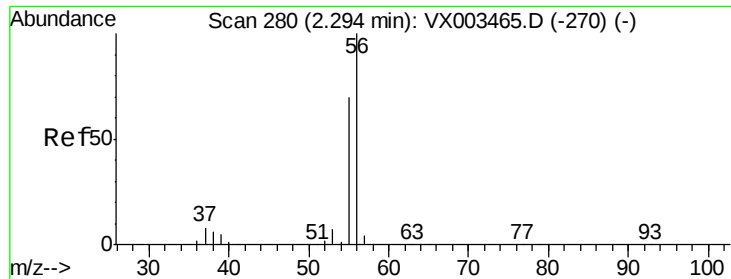


#12

1,1-Dichloroethene
 Concen: 0.320 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. 0.01 min
 Lab File: VX003596.D
 Acq: 23 Jul 2018 11:37

Tgt Ion: 96 Resp: 906
 Ion Ratio Lower Upper
 96 100
 61 120.5 137.9 206.9#
 98 51.7 51.6 77.4





#13

Acrolein

Concen: 0.245 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

Instrument :

MSVOA_X

ClientSampleId :

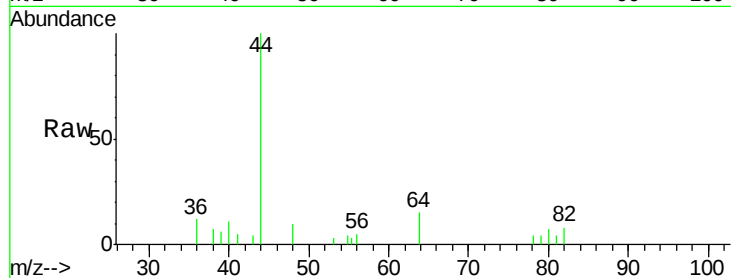
TT101D2-071018DL

Tgt Ion: 56 Resp: 72

Ion Ratio Lower Upper

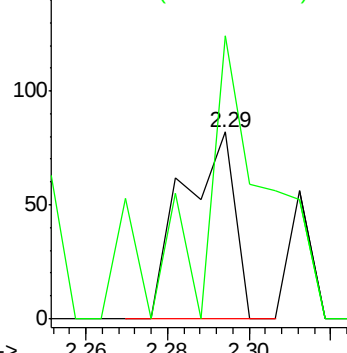
56 100

55 176.4 57.0 85.4#

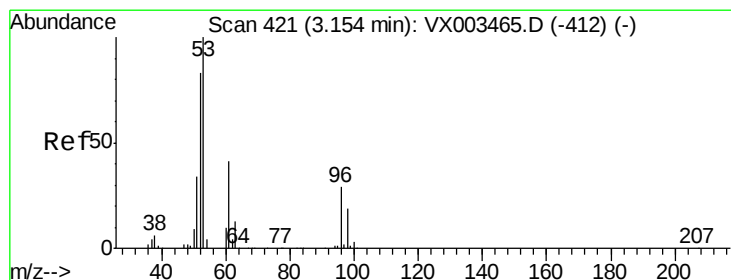
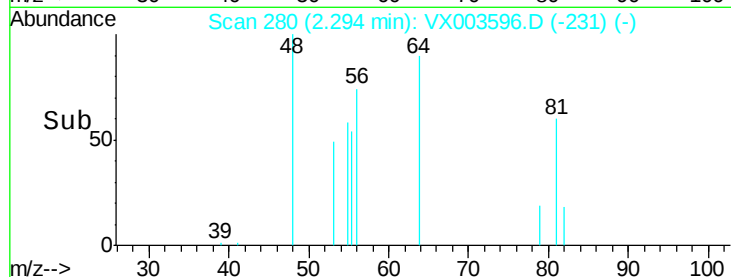


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.265 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

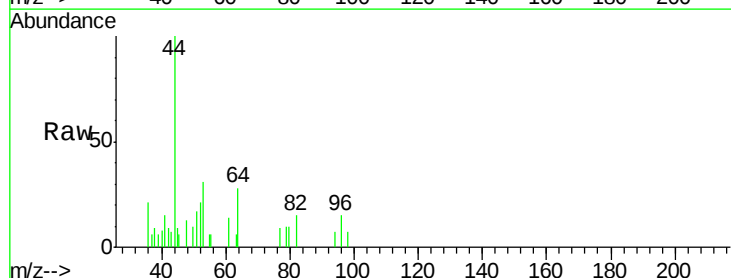
Tgt Ion: 53 Resp: 438

Ion Ratio Lower Upper

53 100

52 77.4 66.7 100.1

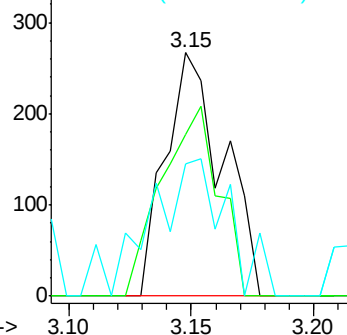
51 77.9 29.9 44.9#



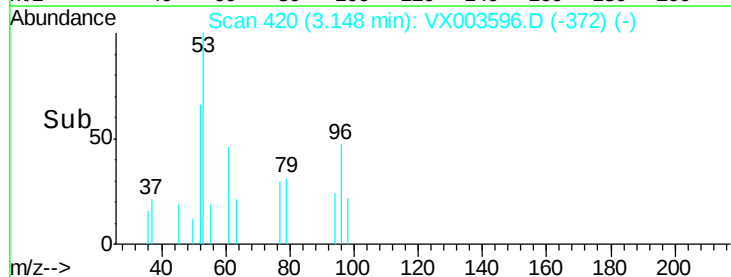
Abundance Ion 53.00 (52.70 to 53.70): VX0

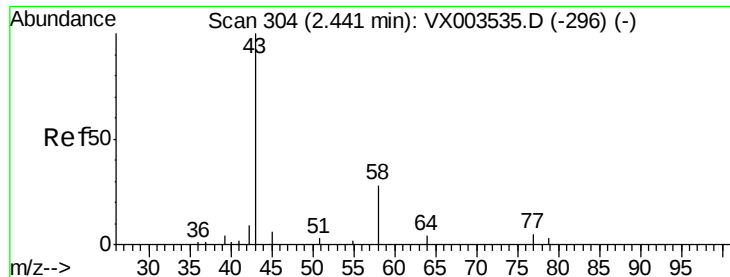
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->





#16

Acetone

Concen: 0.450 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

Instrument :

MSVOA_X

ClientSampleId :

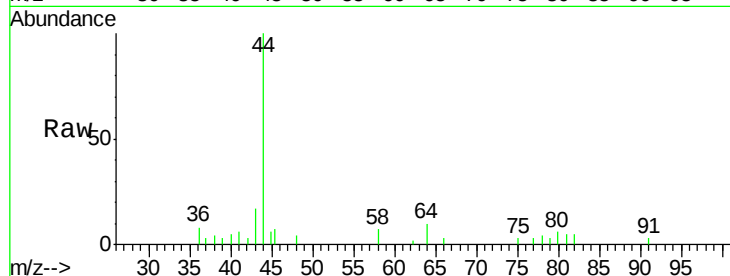
TT101D2-071018DL

Tgt Ion: 43 Resp: 559

Ion Ratio Lower Upper

43 100

58 50.5 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

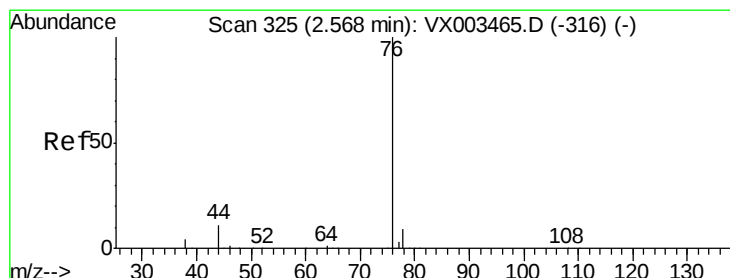
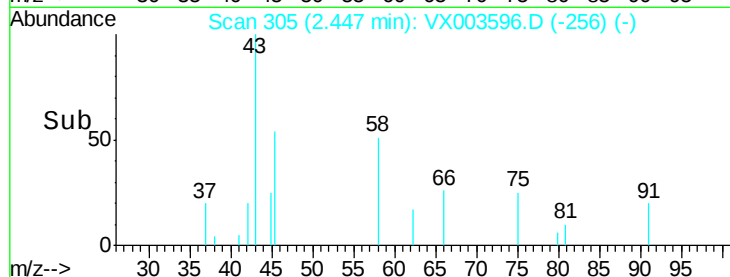
300

200

100

0

Time-->



#17

Carbon Disulfide

Concen: 0.291 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003596.D

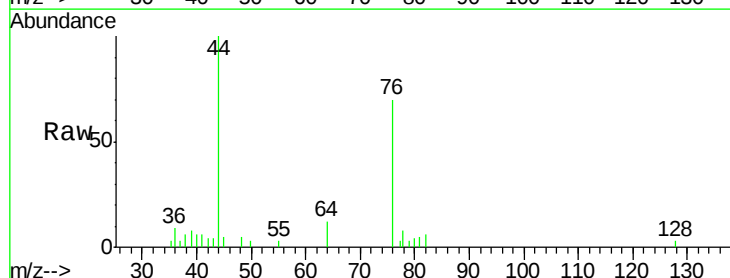
Acq: 23 Jul 2018 11:37

Tgt Ion: 76 Resp: 2243

Ion Ratio Lower Upper

76 100

78 7.0 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

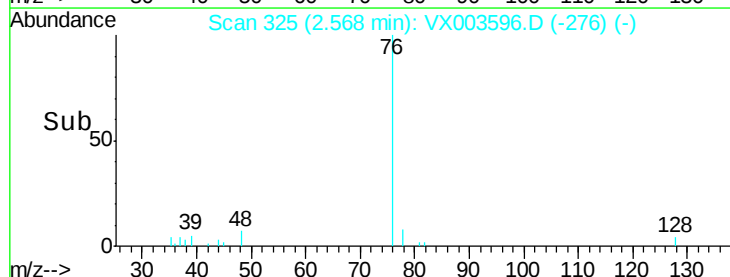
1500

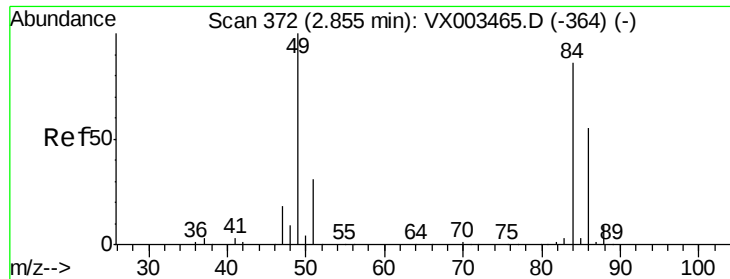
1000

500

0

Time-->



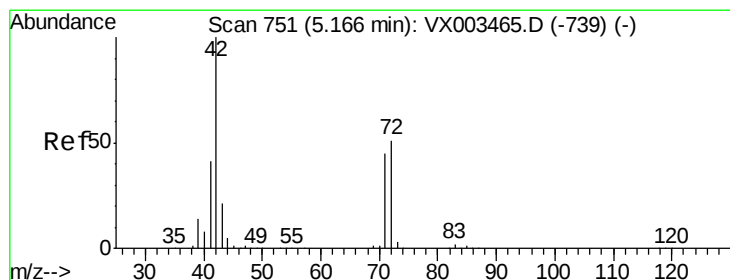
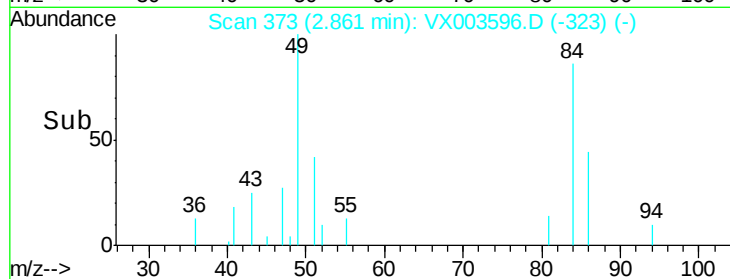
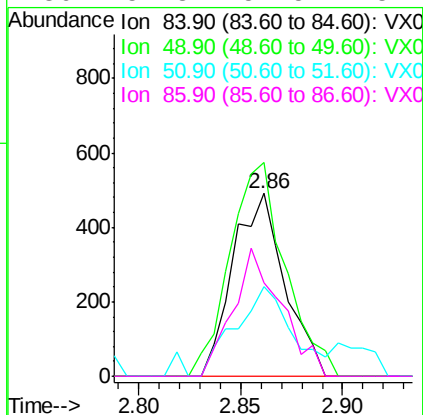
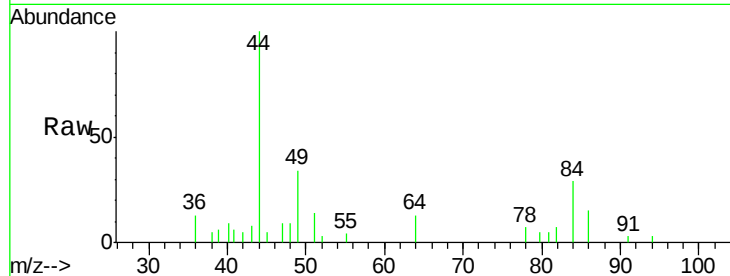


#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003596.D
Acq: 23 Jul 2018 11:37

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-071018DL

Tgt Ion: 84 Resp: 868

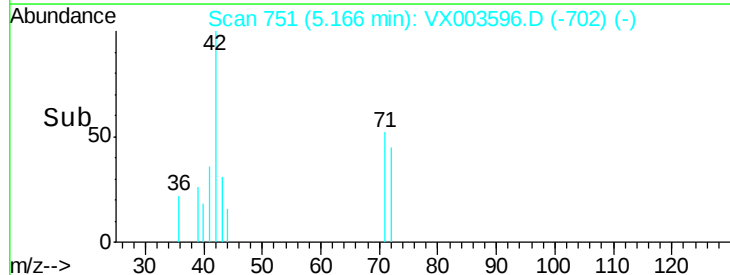
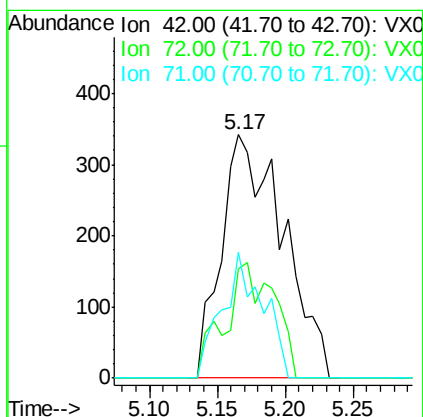
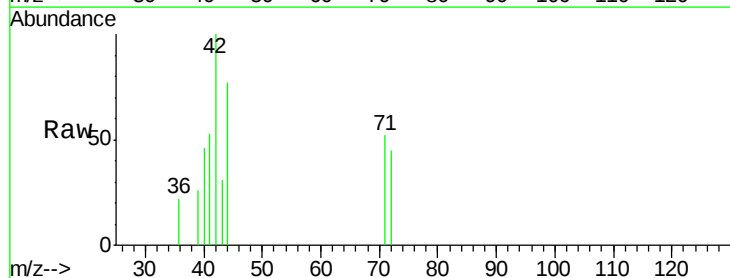
Ion	Ratio	Lower	Upper
84	100		
49	116.9	107.8	161.6
51	49.1	32.8	49.2
86	51.3	52.5	78.7#

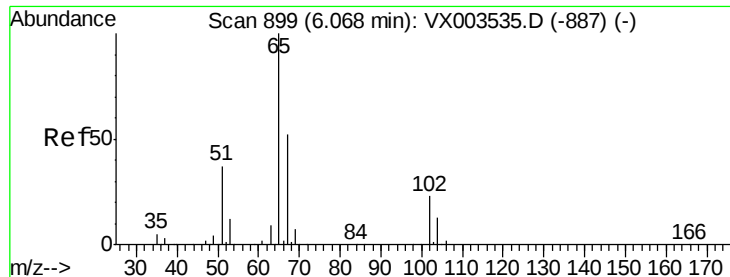


#29
Tetrahydrofuran
Concen: 0.792 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: VX003596.D
Acq: 23 Jul 2018 11:37

Tgt Ion: 42 Resp: 1089

Ion	Ratio	Lower	Upper
42	100		
72	37.7	32.0	48.0
71	34.1	30.1	45.1

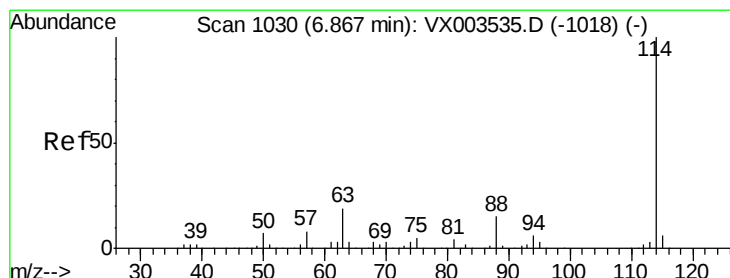
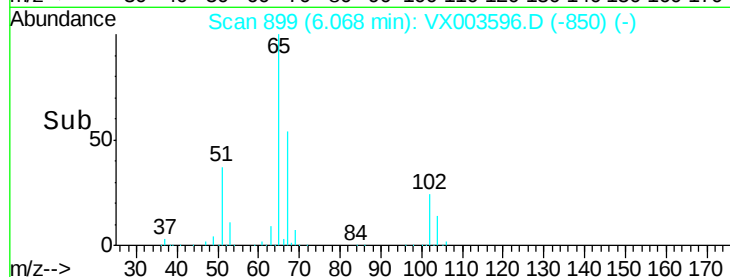
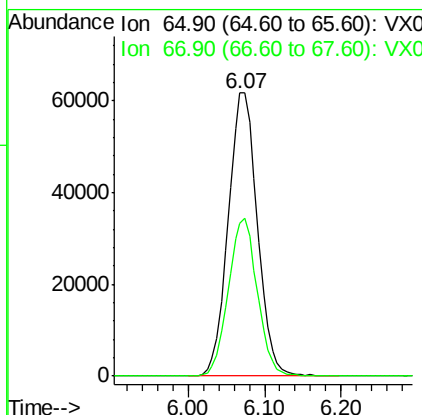
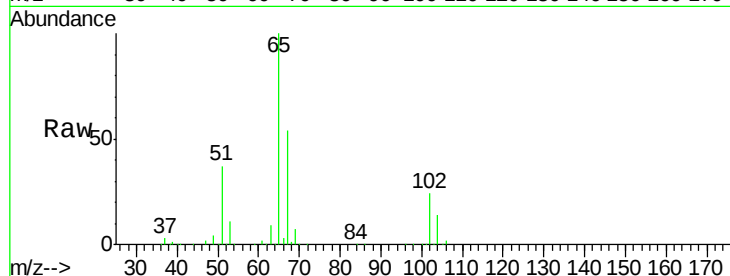




#33
 1,2-Dichloroethane-d4
 Concen: 49.614 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX003596.D
 Acq: 23 Jul 2018 11:37

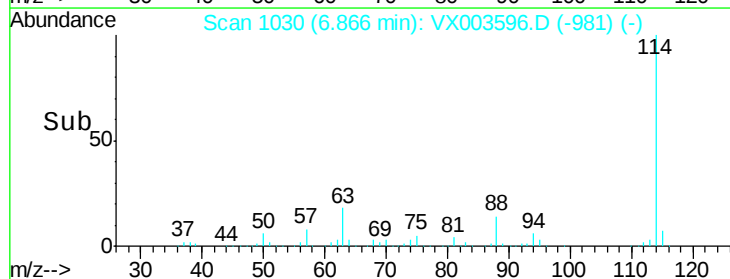
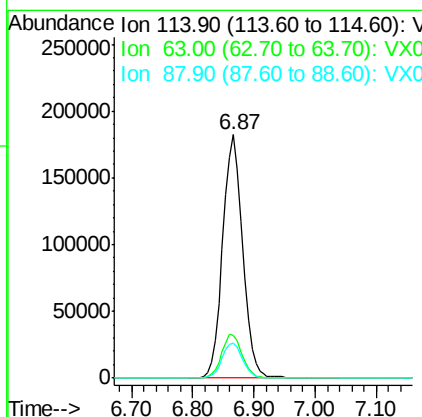
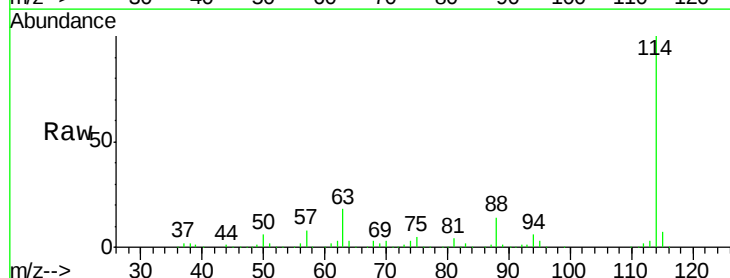
Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-071018DL

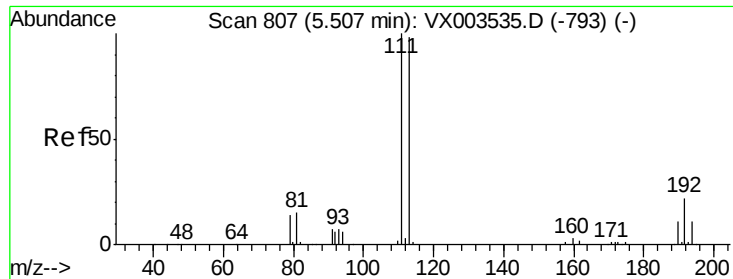
Tgt Ion: 65 Resp: 162993
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003596.D
 Acq: 23 Jul 2018 11:37

Tgt Ion: 114 Resp: 412998
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 41.4
 88 14.5 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.113 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-071018DL

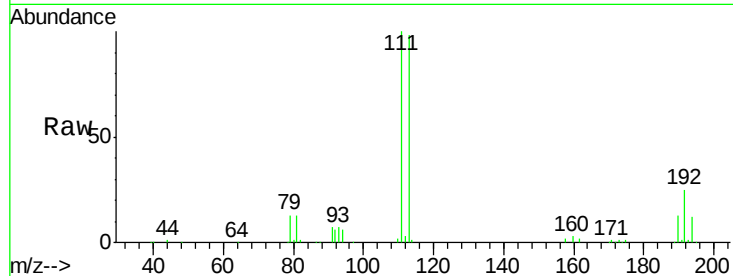
Tgt Ion:113 Resp: 151348

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

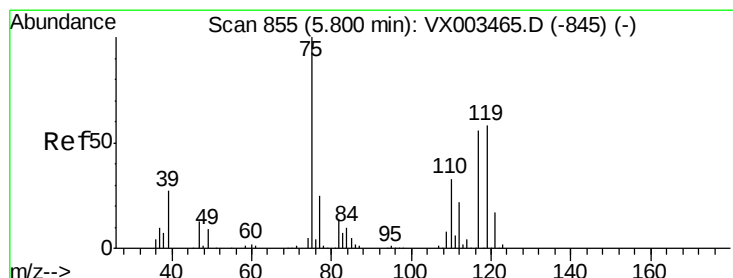
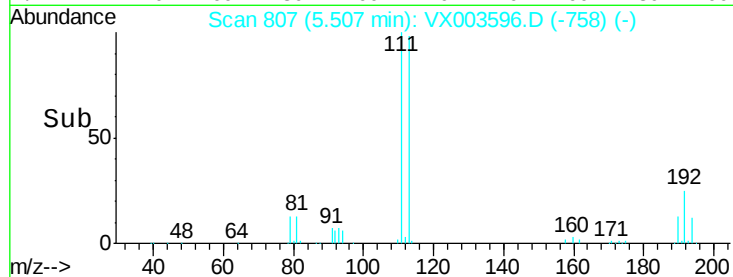
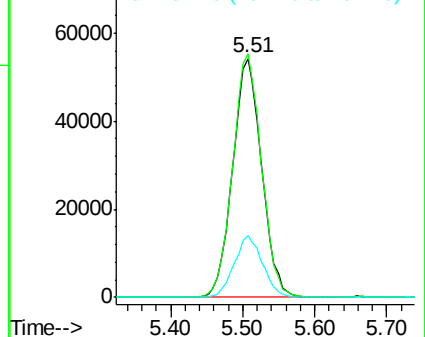
192 25.2 19.1 28.7



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: 3.657 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

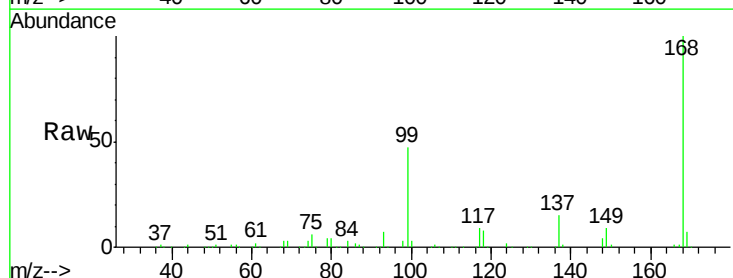
Tgt Ion: 75 Resp: 16305

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.4#

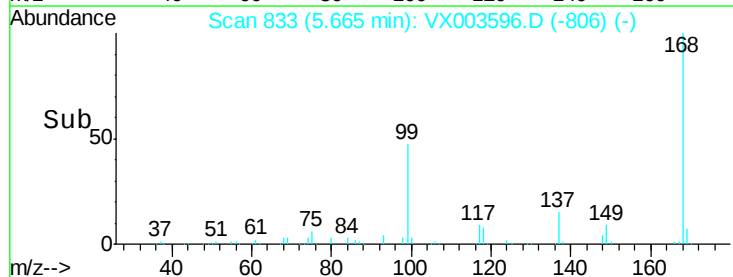
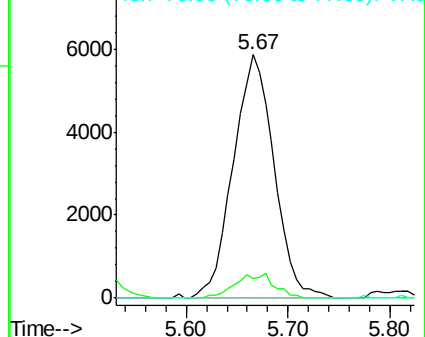
77 0.0 24.3 36.5#

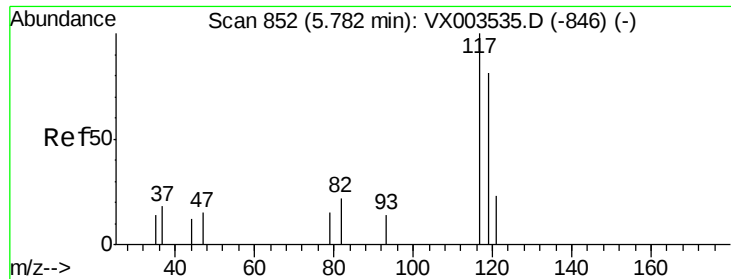


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.566 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.11 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

Instrument :

MSVOA_X

ClientSampleId :

TT101D2-071018DL

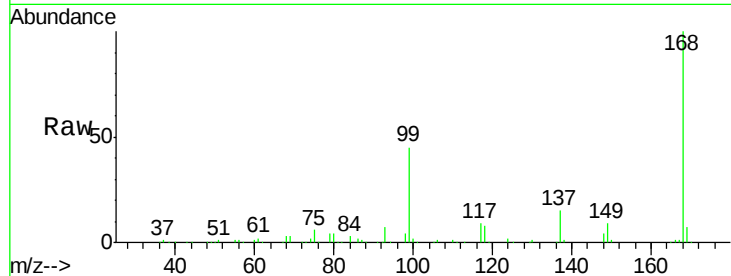
Tgt Ion:117 Resp: 24343

Ion Ratio Lower Upper

117 100

119 4.7 77.4 116.0#

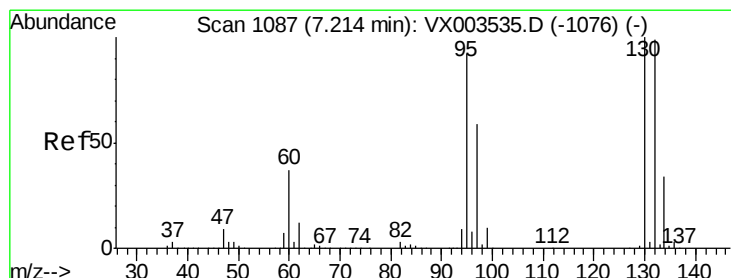
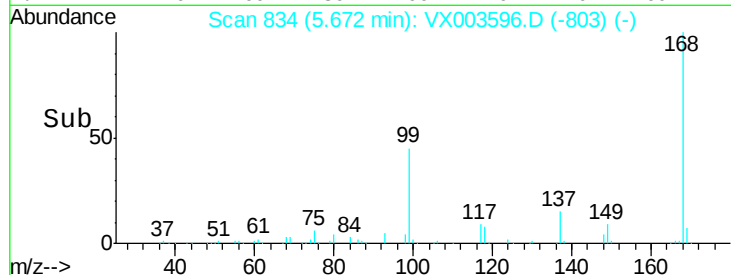
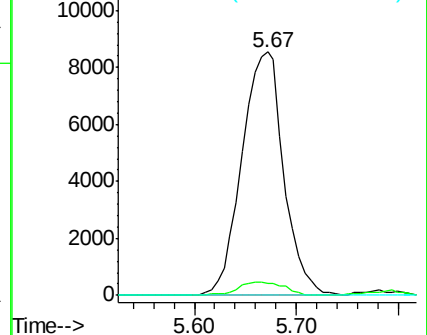
121 0.0 24.4 36.6#



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



#44

Trichloroethene

Concen: 32.879 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003596.D

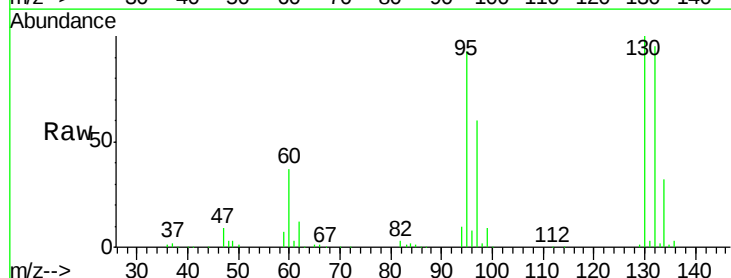
Acq: 23 Jul 2018 11:37

Tgt Ion:130 Resp: 132008

Ion Ratio Lower Upper

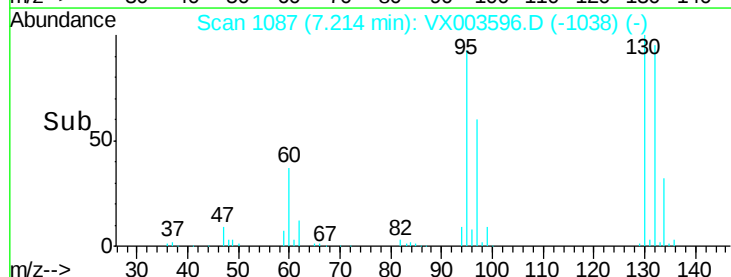
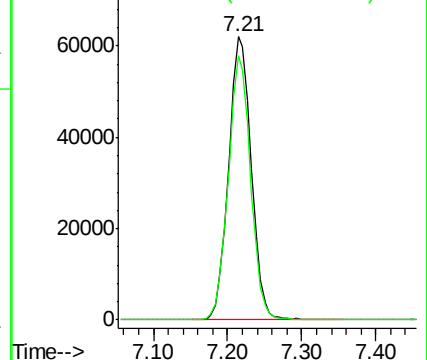
130 100

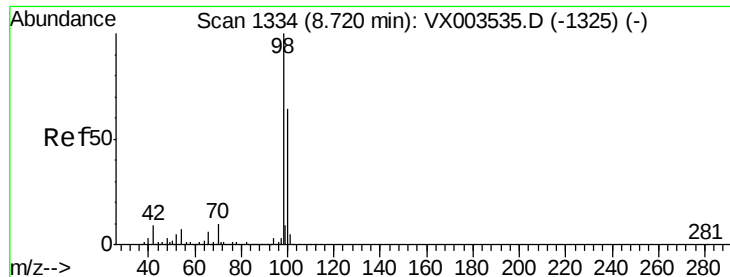
95 93.5 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 49.688 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

Instrument :

MSVOA_X

ClientSampleId :

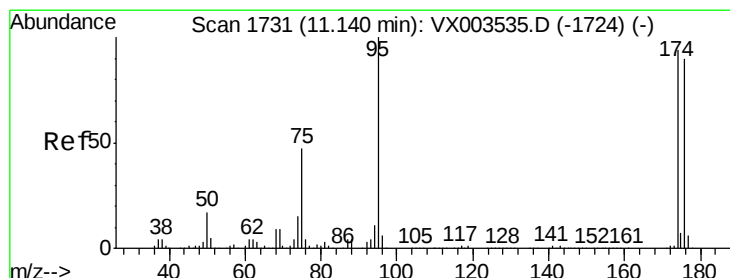
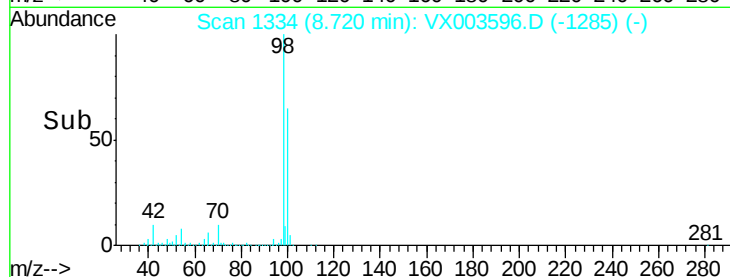
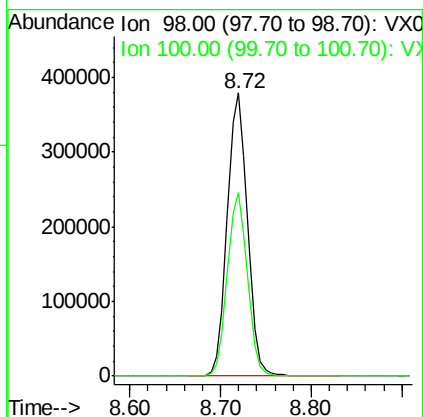
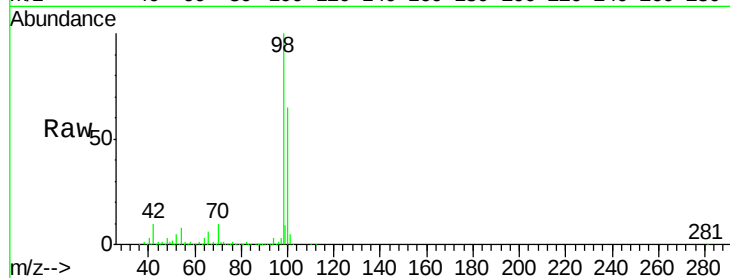
TT101D2-071018DL

Tgt Ion: 98 Resp: 587481

Ion Ratio Lower Upper

98 100

100 64.5 50.9 76.3



#62

4-Bromofluorobenzene

Concen: 45.934 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003596.D

Acq: 23 Jul 2018 11:37

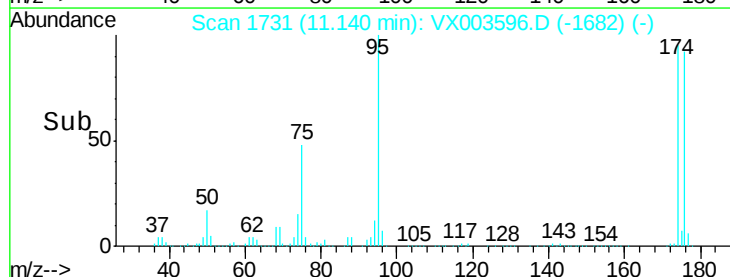
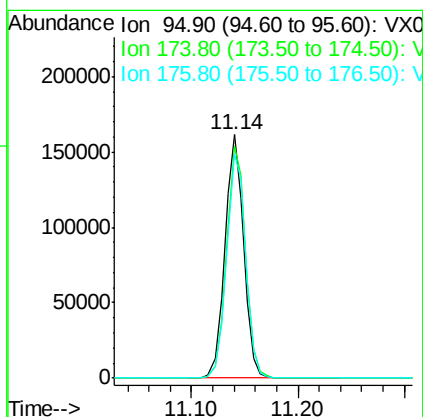
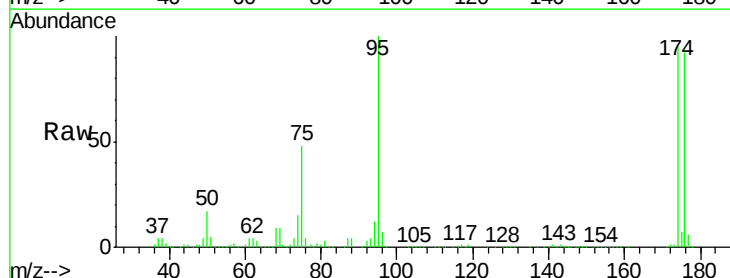
Tgt Ion: 95 Resp: 198199

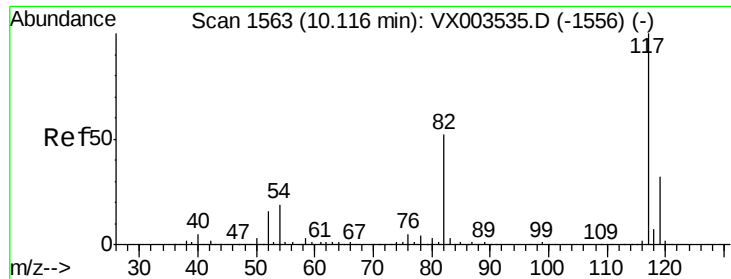
Ion Ratio Lower Upper

95 100

174 97.5 0.0 187.4

176 94.1 0.0 181.0

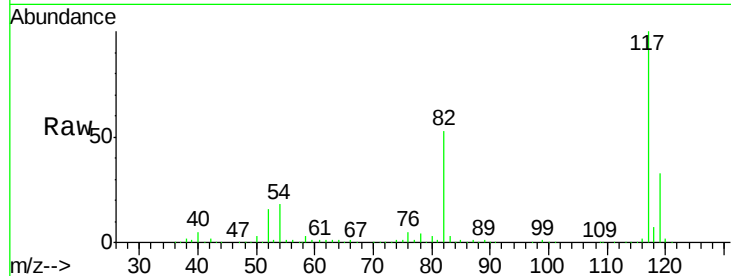




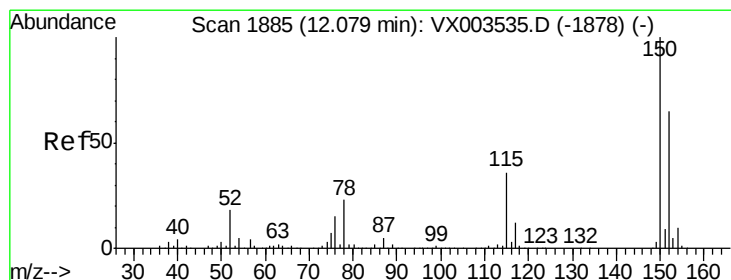
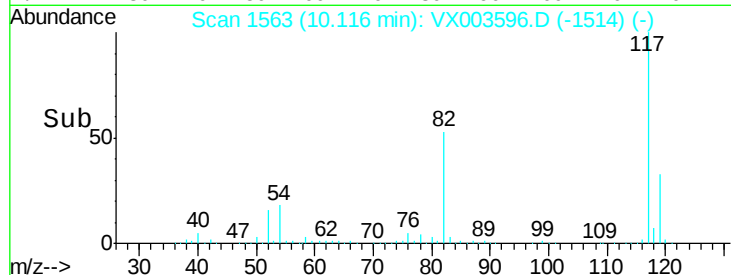
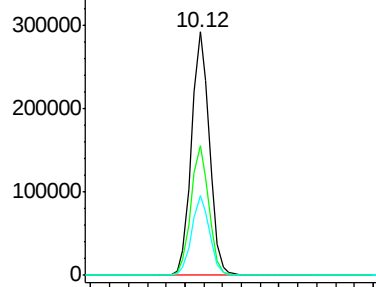
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003596.D
Acq: 23 Jul 2018 11:37

Instrument :
MSVOA_X
ClientSampleId :
TT101D2-071018DL

Tgt Ion:117 Resp: 387731
Ion Ratio Lower Upper
117 100
82 53.0 45.0 67.4
119 32.6 25.8 38.6

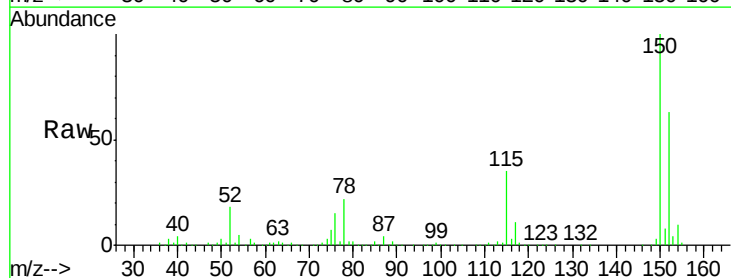


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

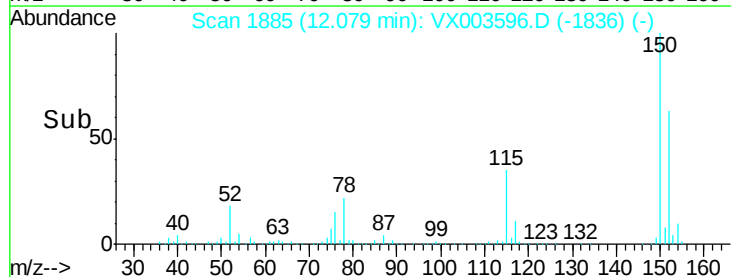
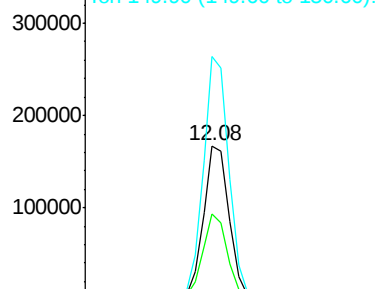


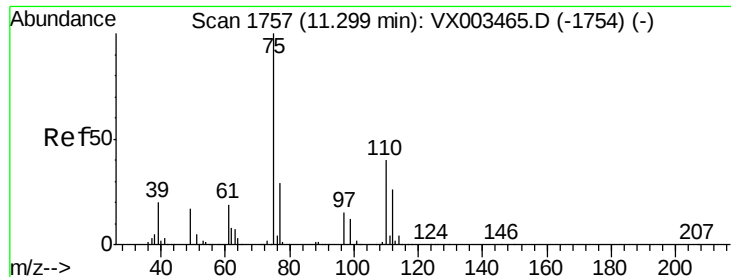
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003596.D
Acq: 23 Jul 2018 11:37

Tgt Ion:152 Resp: 210979
Ion Ratio Lower Upper
152 100
115 54.6 40.1 120.2
150 156.9 0.0 347.2



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

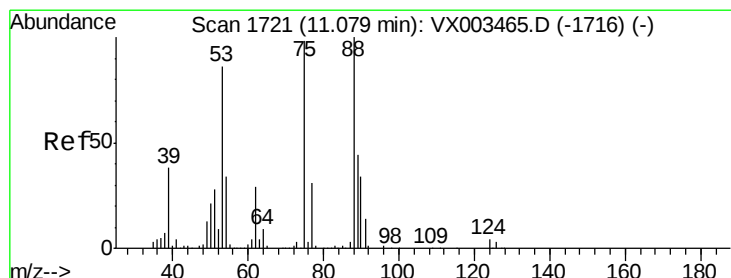
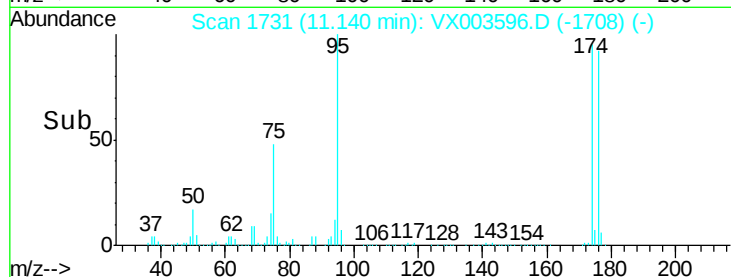
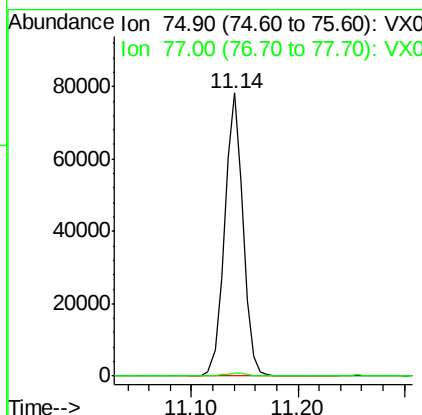
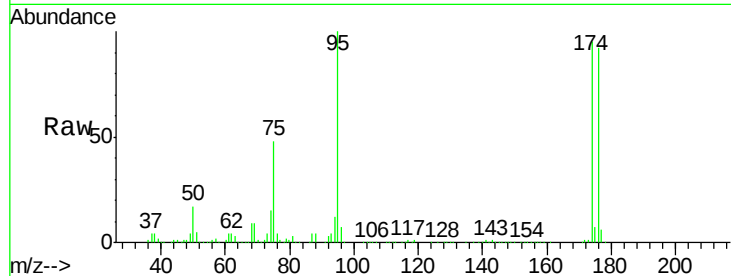




#76
 1,2,3-Trichloropropane
 Concen: 24.829 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003596.D
 Acq: 23 Jul 2018 11:37

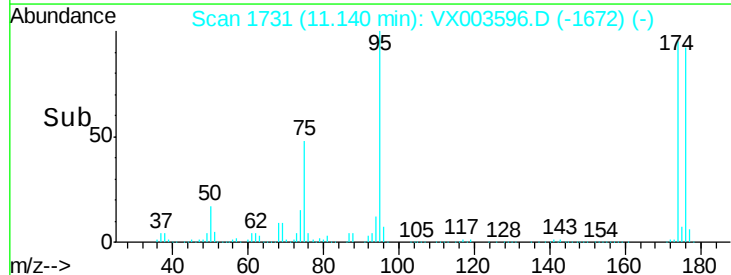
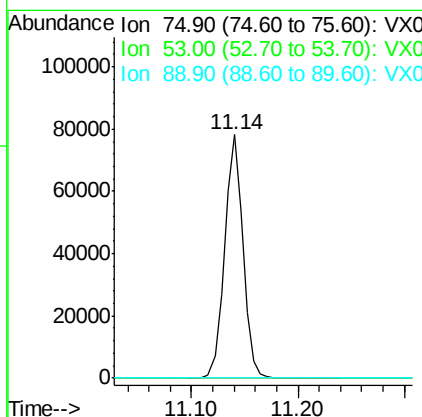
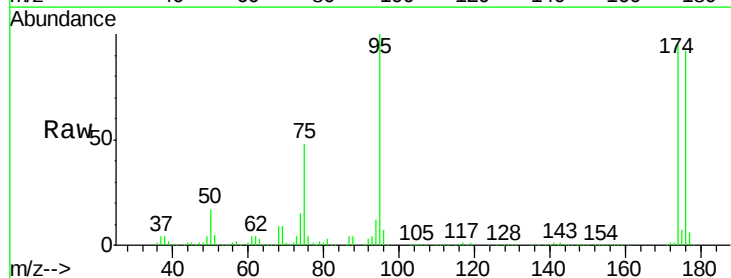
Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-071018DL

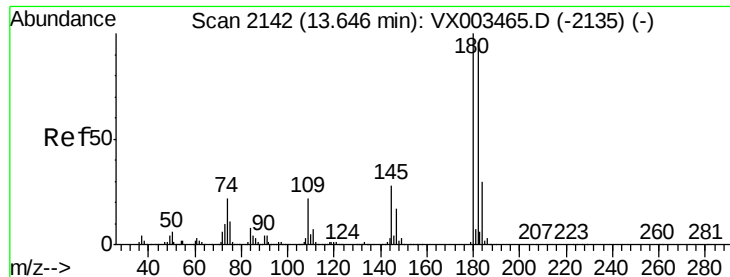
Tgt Ion: 75 Resp: 94105
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.545 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003596.D
 Acq: 23 Jul 2018 11:37

Tgt Ion: 75 Resp: 94105
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#

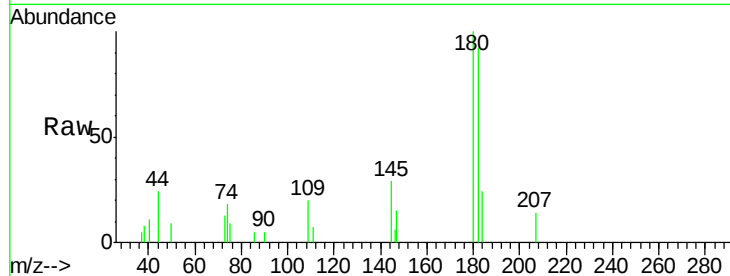




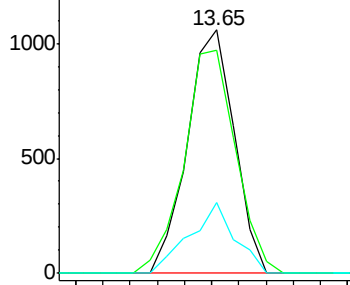
#93
 1,2,4-Trichlorobenzene
 Concen: 0.227 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.01 min
 Lab File: VX003596.D
 Acq: 23 Jul 2018 11:37

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-071018DL

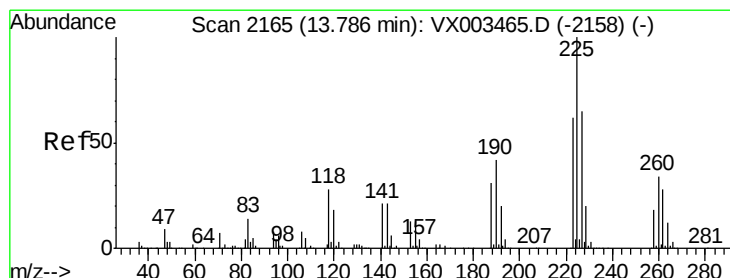
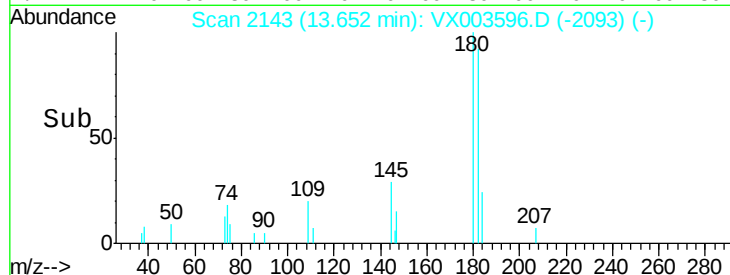
Tgt Ion:180 Resp: 1264
 Ion Ratio Lower Upper
 180 100
 182 101.2 47.7 143.1
 145 28.0 14.1 42.4



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

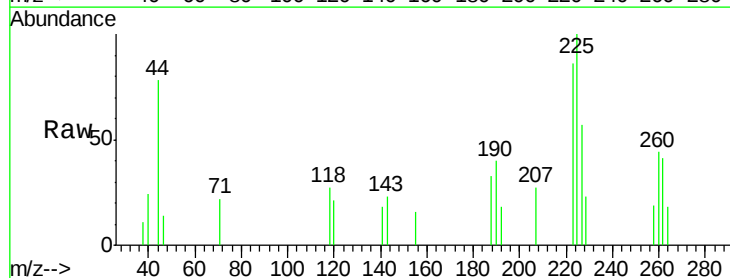


Time--> 13.60 13.65

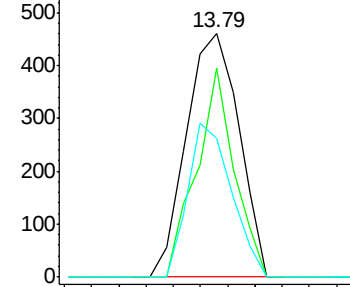


#94
 Hexachlorobutadiene
 Concen: 0.230 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003596.D
 Acq: 23 Jul 2018 11:37

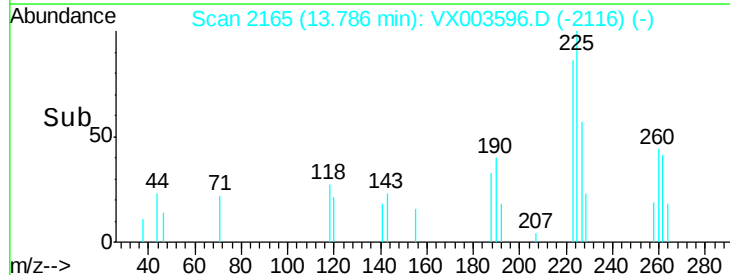
Tgt Ion:225 Resp: 616
 Ion Ratio Lower Upper
 225 100
 223 62.0 31.6 95.0
 227 52.4 32.4 97.2

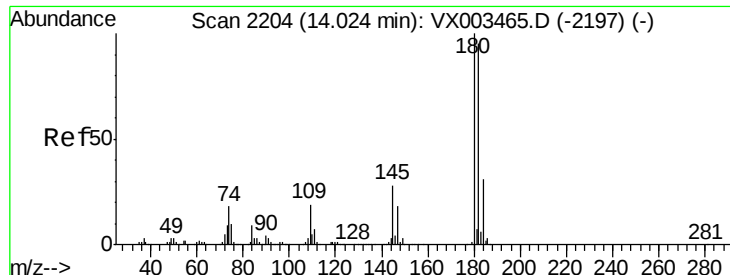


Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V



Time--> 13.75 13.80





#96
 1,2,3-Trichlorobenzene
 Concen: 0.202 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VX003596.D
 Acq: 23 Jul 2018 11:37

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D2-071018DL

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.8	48.0	144.0
145	30.6	14.8	44.3

