

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071918\
 Data File : VX003481.D
 Acq On : 19 Jul 2018 23:40
 Operator : JC/SP
 Sample : J3170-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D1-071018

Quant Time: Jul 20 04:03:20 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	300703	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	442801	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	417347	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	227280	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	181785	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
35) Dibromofluoromethane	5.50	113	172331	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
50) Toluene-d8	8.72	98	629021	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	11.14	95	215932	46.68	ug/l	0.00
Spiked Amount			Recovery	=	93.36%	

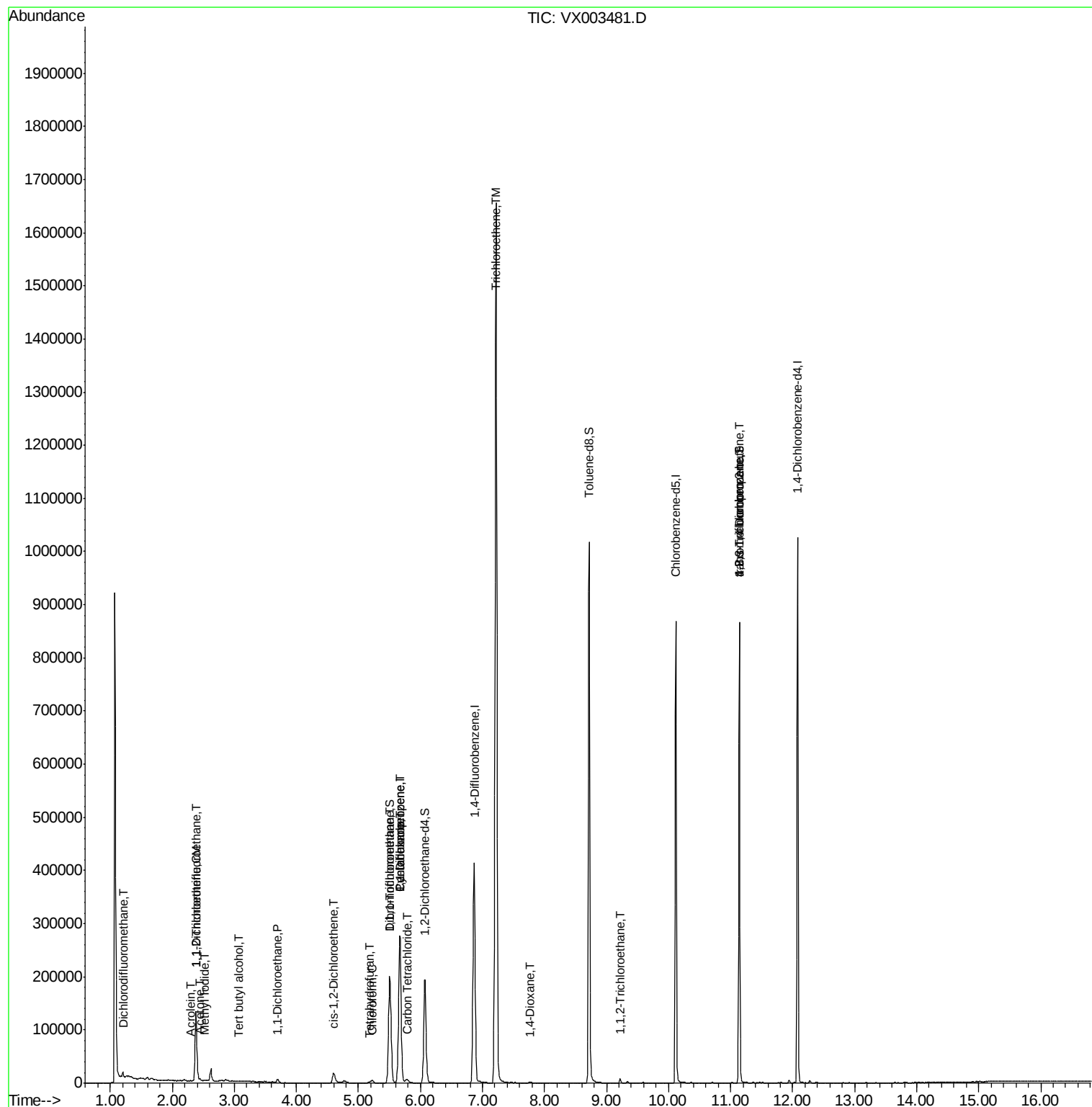
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	3823	0.89	ug/l	95
3) Chloromethane	1.32	50	1423	Below	Cal	92
5) Bromomethane	1.67	94	1960	Below	Cal	93
9) 1,1,2-Trichlorotrifluoroet	2.39	101	37737	11.31	ug/l	96
10) Methyl Iodide	2.52	142	1624	0.41	ug/l	97
11) Tert butyl alcohol	3.07	59	242	0.34	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	18306	5.96	ug/l	86
13) Acrolein	2.30	56	127	0.40	ug/l #	14
16) Acetone	2.45	43	3387	2.52	ug/l	99
20) Methylene Chloride	2.86	84	1338	Below	Cal	85
24) 1,1-Dichloroethane	3.70	63	7060	1.18	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	8474	2.23	ug/l #	11
29) Tetrahydrofuran	5.17	42	960	0.64	ug/l #	70
30) Chloroform	5.22	83	6394	1.09	ug/l	96
31) Cyclohexane	5.66	56	4776	0.89	ug/l #	1
32) 1,1,1-Trichloroethane	5.50	97	2921	0.58	ug/l #	49
36) 1,1-Dichloropropene	5.67	75	19193	4.01	ug/l #	50
38) Carbon Tetrachloride	5.79	117	6223	1.33	ug/l	96
44) Trichloroethene	7.22	130	687788	159.78	ug/l	95
49) 1,4-Dioxane	7.76	88	1458	17.73	ug/l	99
55) 1,1,2-Trichloroethane	9.22	97	2109	0.58	ug/l	91
76) 1,2,3-Trichloropropane	11.14	75	100464	24.61	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	100464	68.94	ug/l #	7

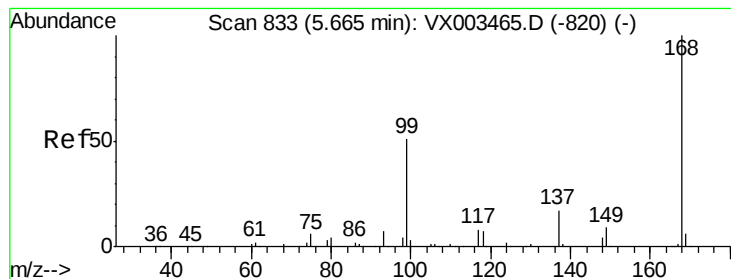
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071918\
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Quant Time: Jul 20 04:03:20 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 17:09:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

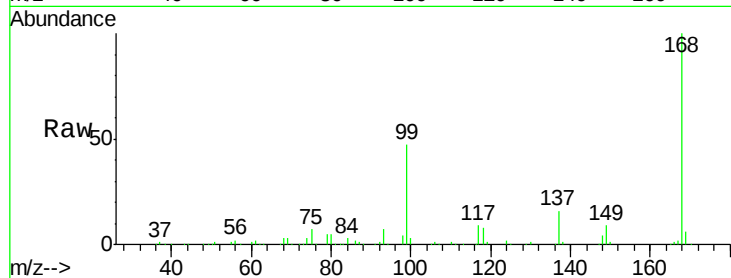
TT101D1-071018

Tot Ion:168 Resp: 300703

Ion Ratio Lower Upper

168 100

99 46.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

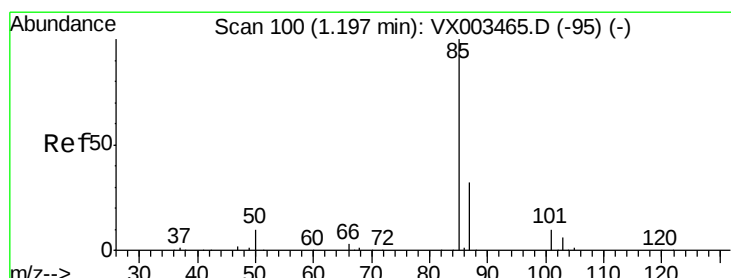
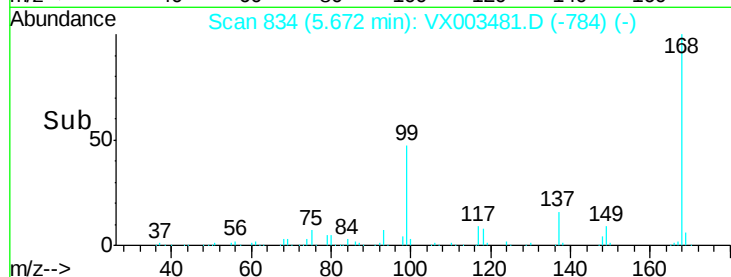
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.89 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003481.D

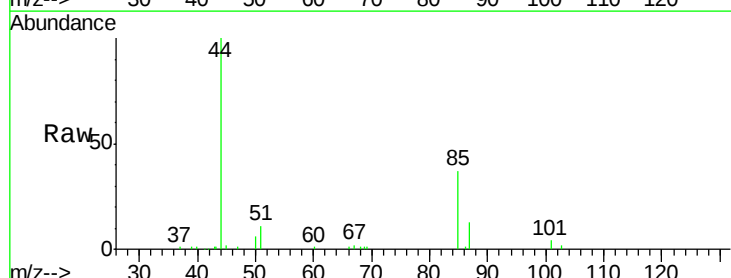
Acq: 19 Jul 2018 23:40

Tgt Ion: 85 Resp: 3823

Ion Ratio Lower Upper

85 100

87 34.6 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

4000

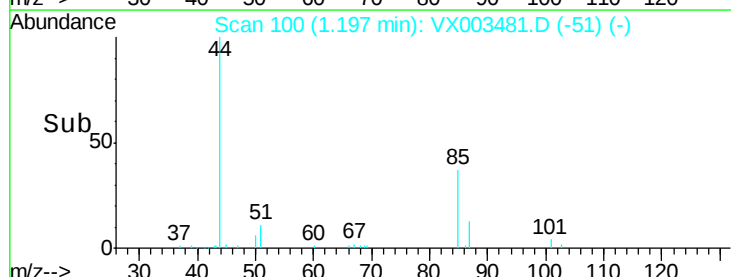
3000

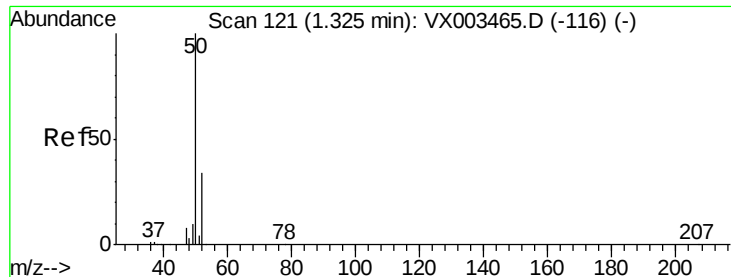
2000

1000

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

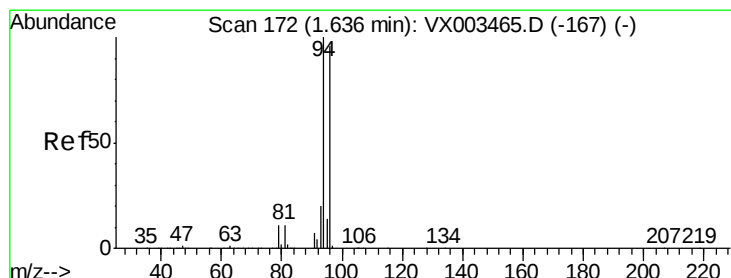
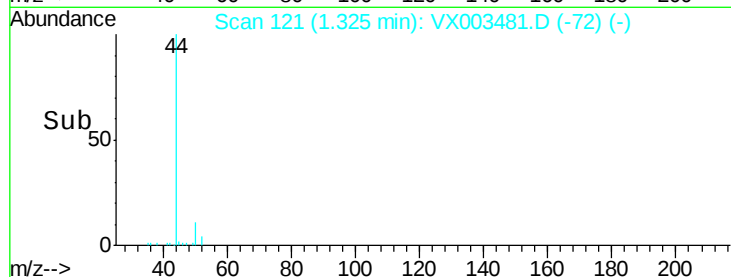
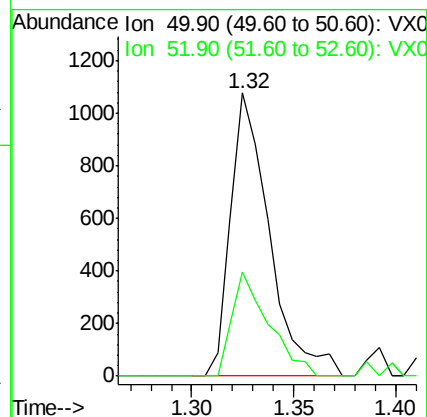
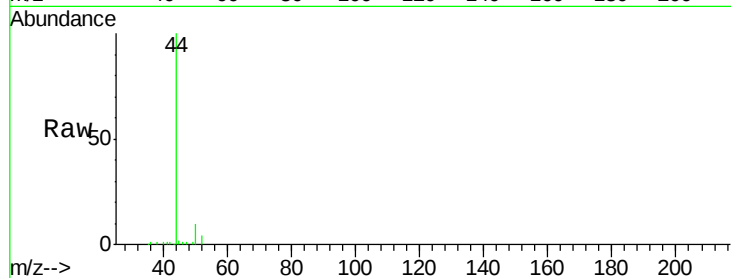
TT101D1-071018

Tot Ion: 50 Resp: 1423

Ion Ratio Lower Upper

50 100

52 36.7 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX003481.D

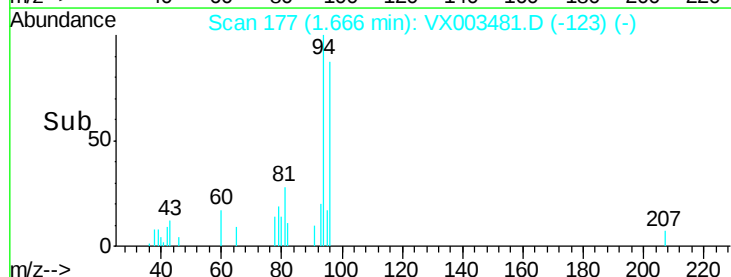
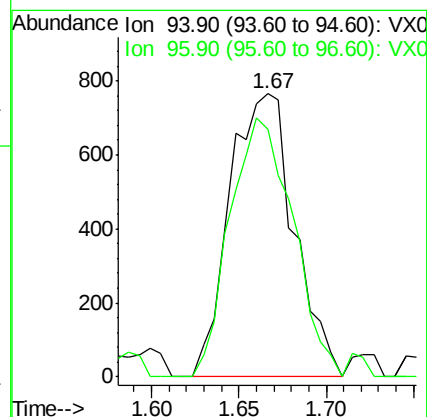
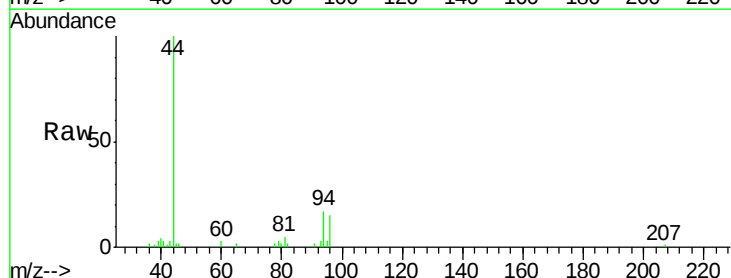
Acq: 19 Jul 2018 23:40

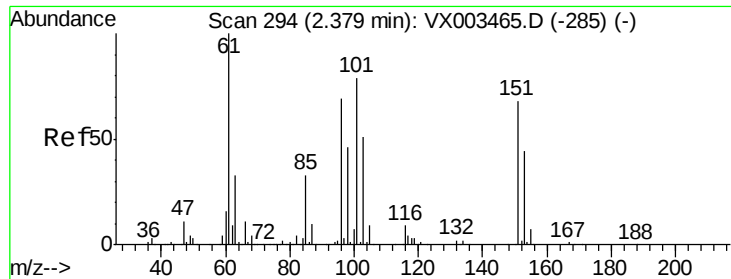
Tgt Ion: 94 Resp: 1960

Ion Ratio Lower Upper

94 100

96 87.3 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.31 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-071018

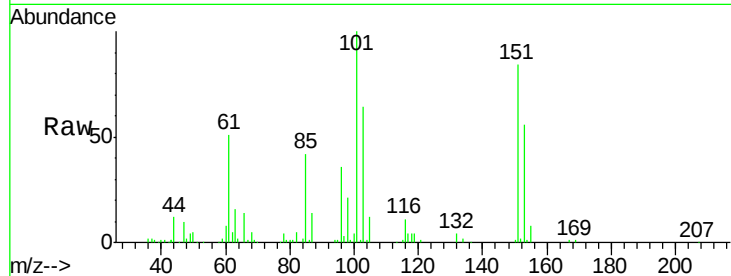
Tot Ion:101 Resp: 37737

Ion Ratio Lower Upper

101 100

85 41.8 36.0 54.0

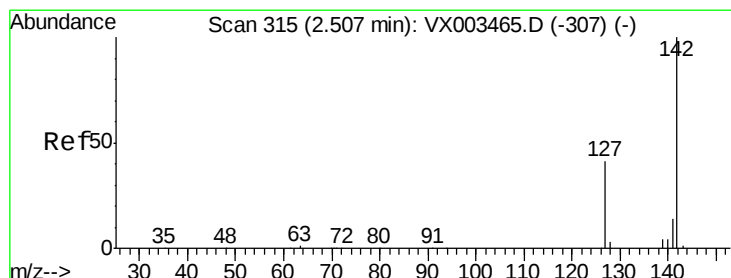
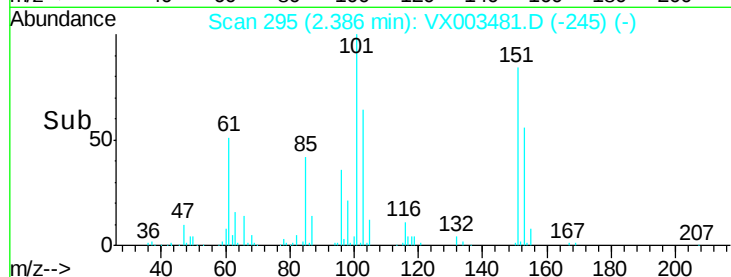
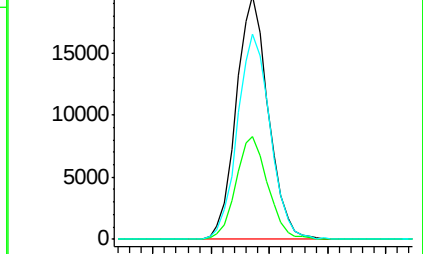
151 85.9 70.9 106.3



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: 0.41 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

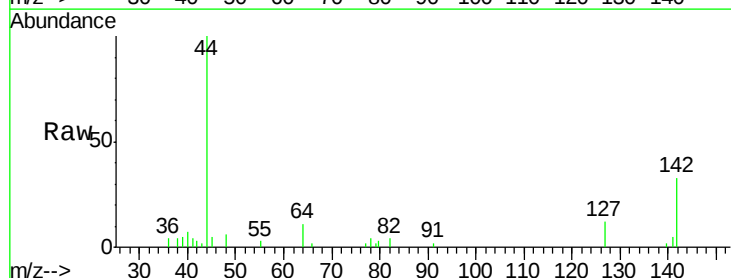
Tgt Ion:142 Resp: 1624

Ion Ratio Lower Upper

142 100

127 44.5 36.6 55.0

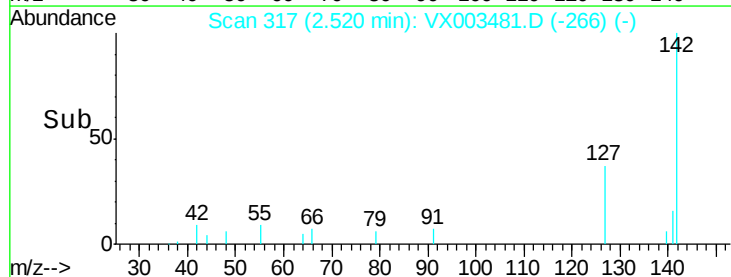
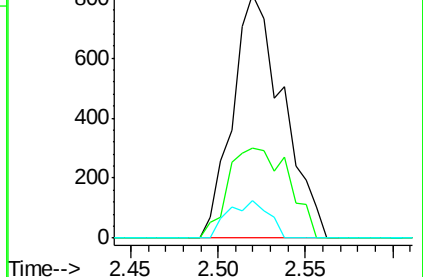
141 12.3 11.3 16.9

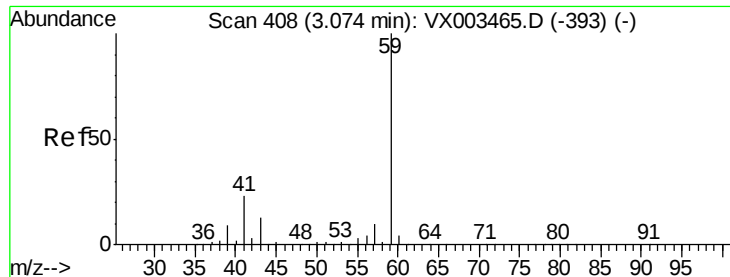


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

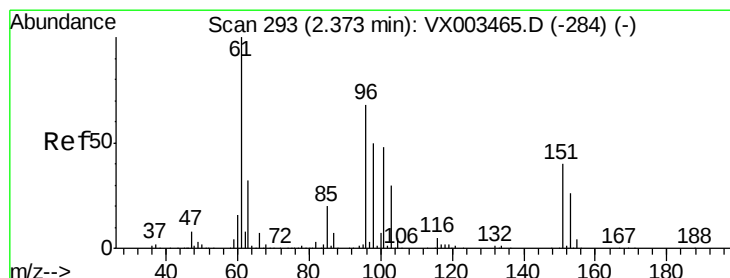
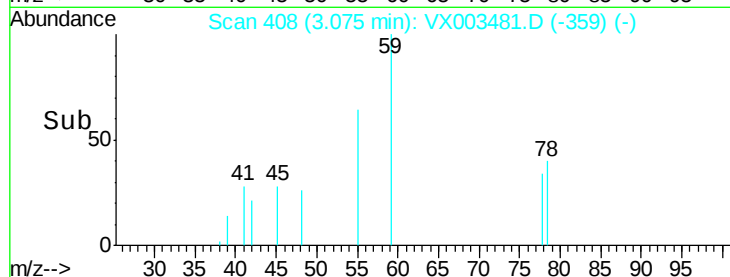
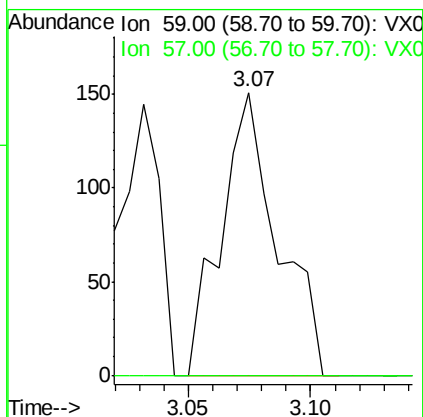
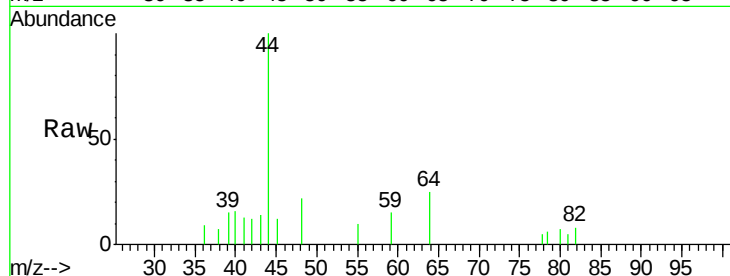




#11
Tert butvl alcohol
Concen: 0.34 ug/l
RT: 3.07 min Scan# 408
Delta R.T. 0.00 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

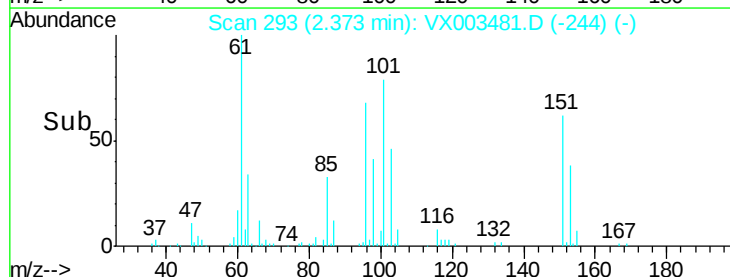
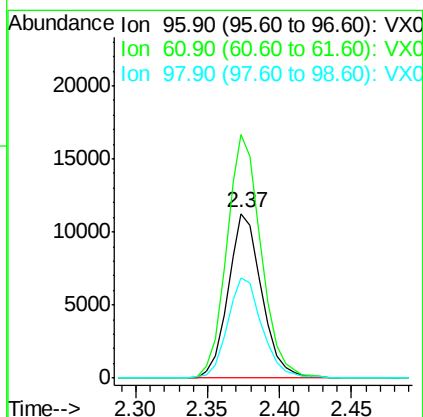
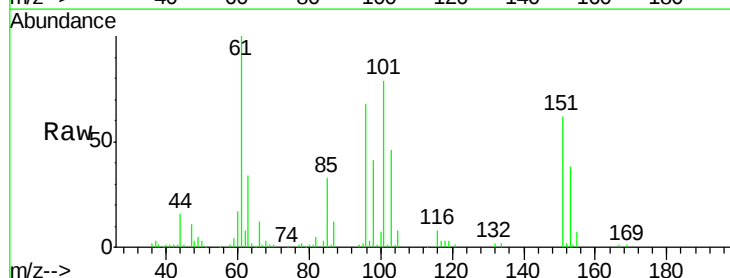
Instrument :
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ClientSampleId :
TT101D1-071018

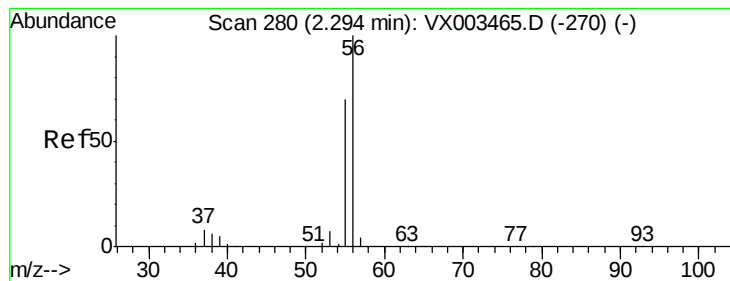
Tot Ion: 59 Resp: 242
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 5.96 ug/l
RT: 2.37 min Scan# 293
Delta R.T. 0.00 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

Tgt Ion: 96 Resp: 18306
Ion Ratio Lower Upper
96 100
61 147.9 137.9 206.9
98 60.6 51.6 77.4





#13

Acrolein

Concen: 0.40 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

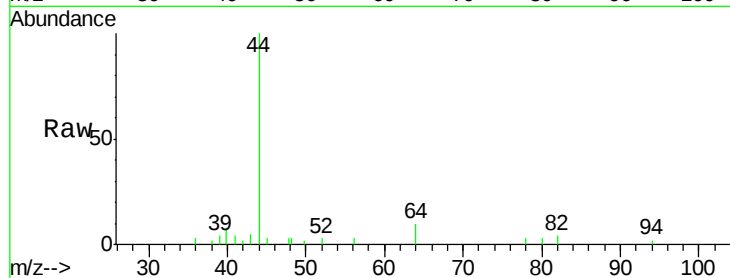
TT101D1-071018

Tot Ion: 56 Resp: 127

Ion Ratio Lower Upper

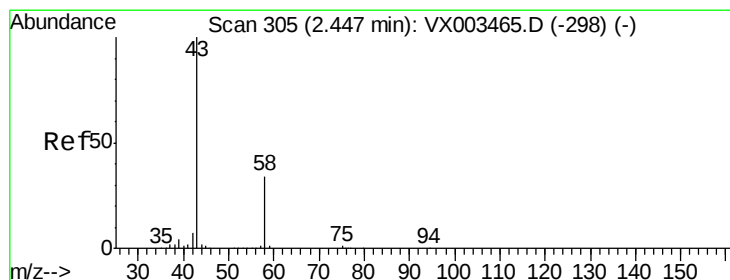
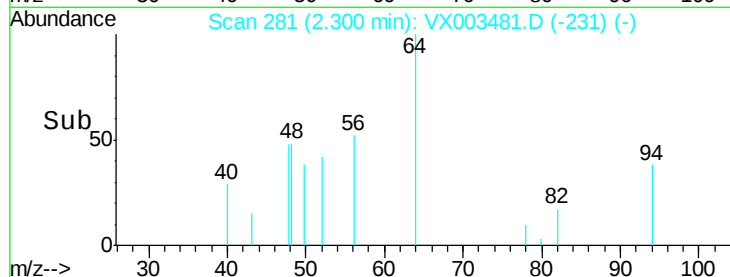
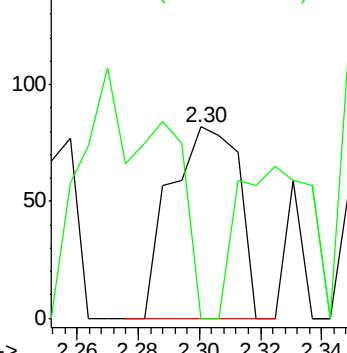
56 100

55 0.0 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.52 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003481.D

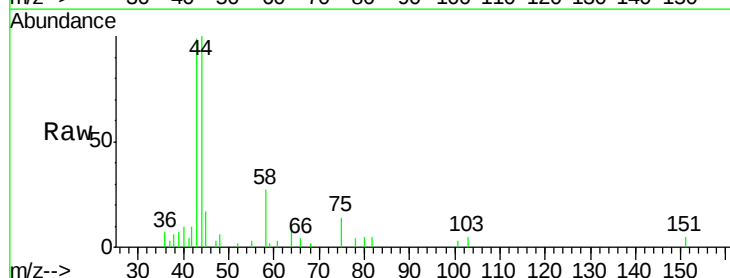
Acq: 19 Jul 2018 23:40

Tgt Ion: 43 Resp: 3387

Ion Ratio Lower Upper

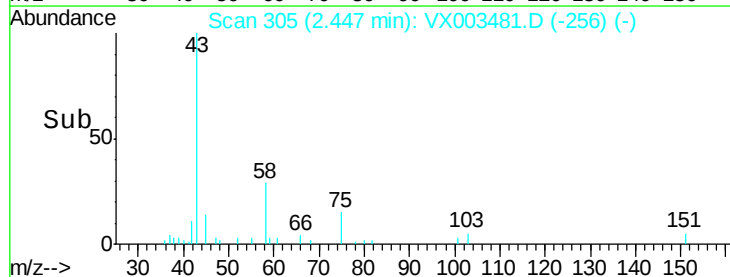
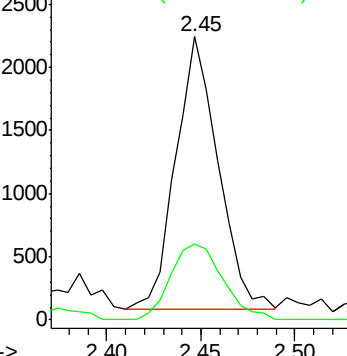
43 100

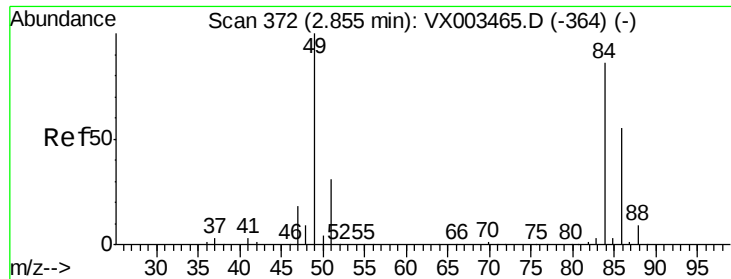
58 28.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

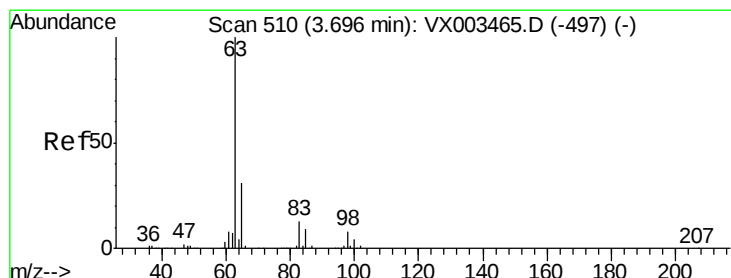
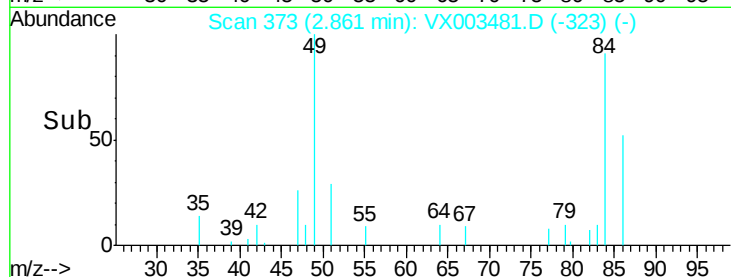
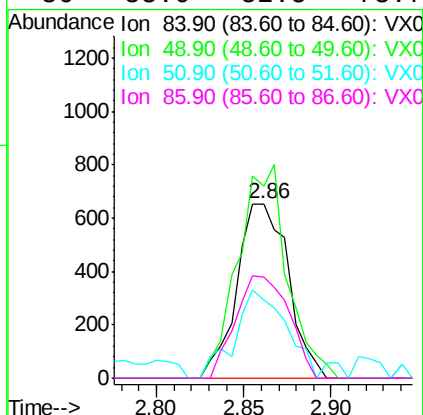
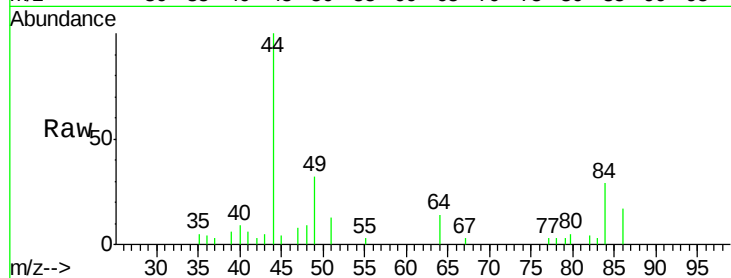




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

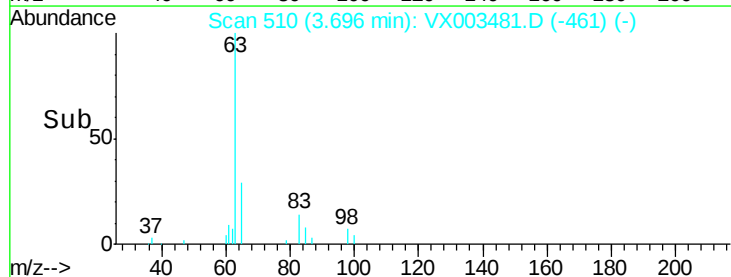
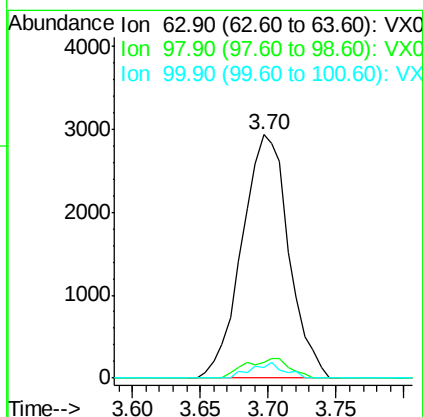
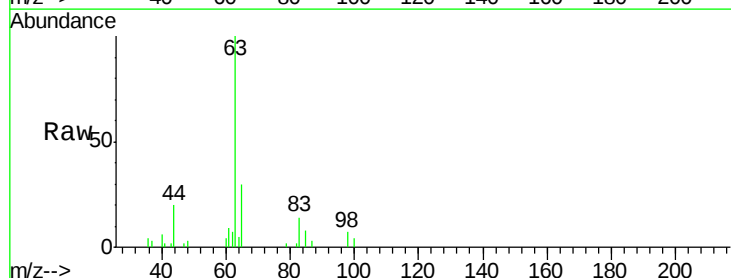
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TT101D1-071018

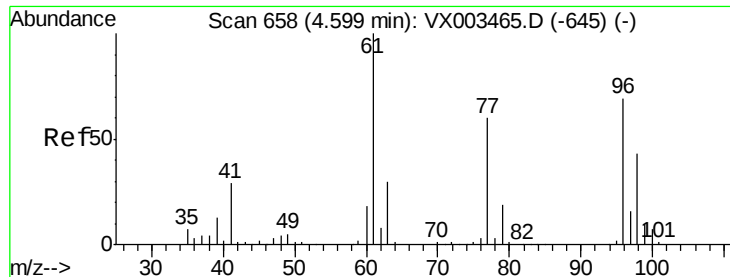
Tot Ion: 84 Resp: 1338
Ion Ratio Lower Upper
84 100
49 110.4 107.8 161.6
51 44.6 32.8 49.2
86 58.0 52.5 78.7



#24
1,1-Dichloroethane
Concen: 1.18 ug/l
RT: 3.70 min Scan# 510
Delta R.T. 0.00 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

Tgt Ion: 63 Resp: 7060
Ion Ratio Lower Upper
63 100
98 6.5 3.4 10.2
100 4.4 2.0 6.0





#27

cis-1,2-Dichloroethene

Concen: 2.23 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-071018

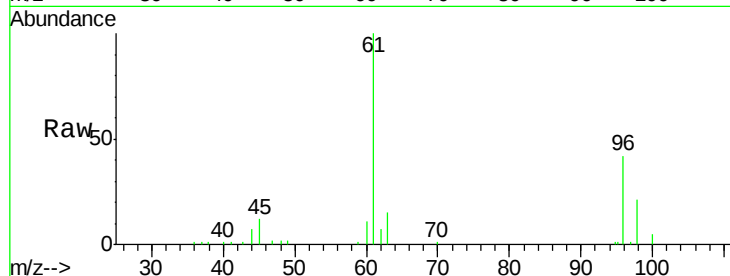
Tot Ion: 96 Resp: 8474

Ion Ratio Lower Upper

96 100

61 330.4 0.0 330.2#

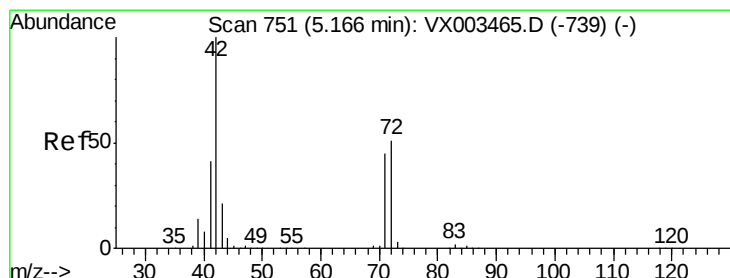
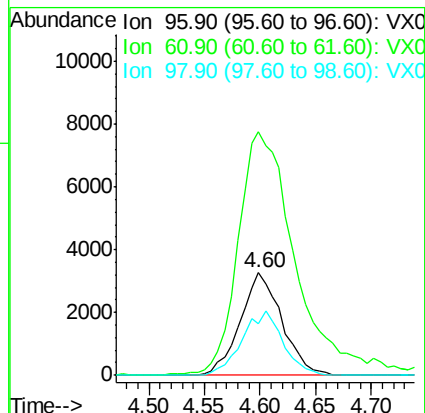
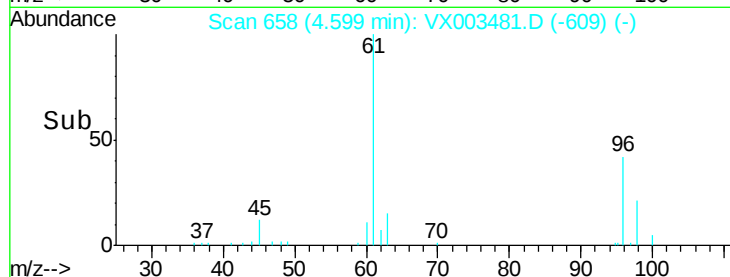
98 61.5 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.64 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

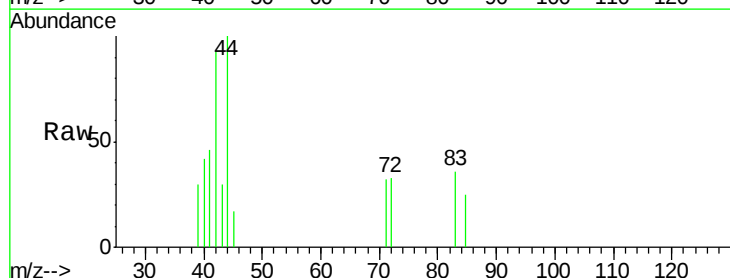
Tgt Ion: 42 Resp: 960

Ion Ratio Lower Upper

42 100

72 13.3 32.0 48.0#

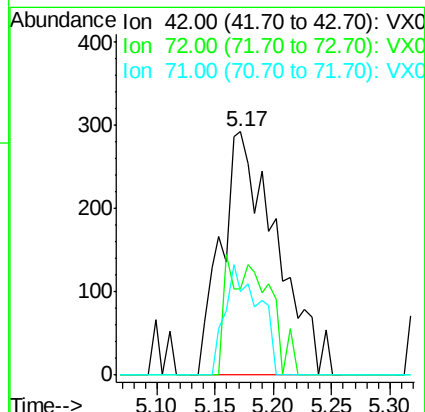
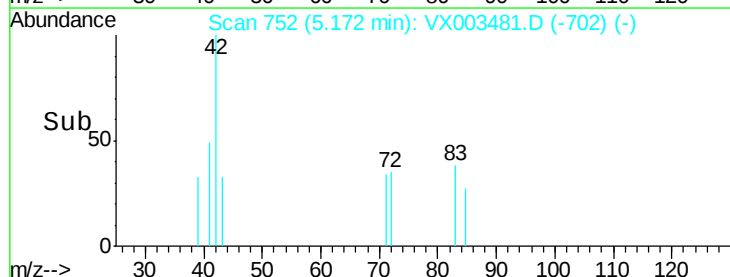
71 27.8 30.1 45.1#

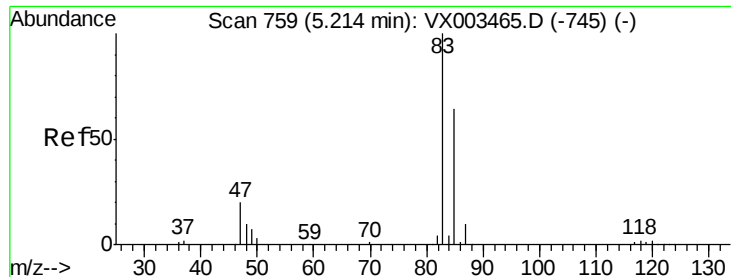


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

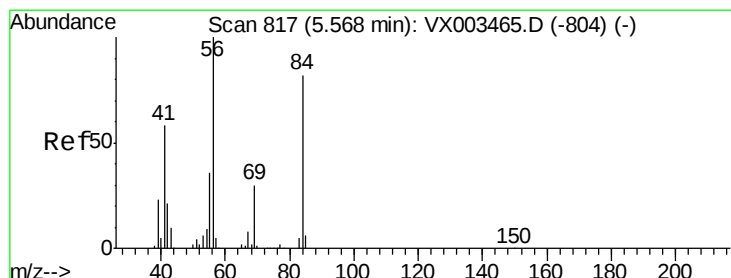
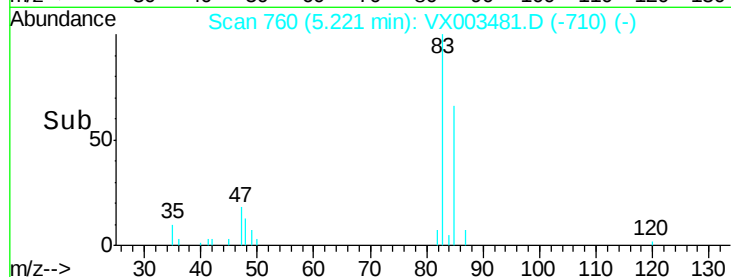
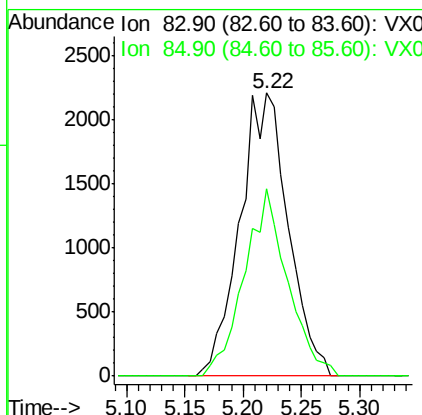
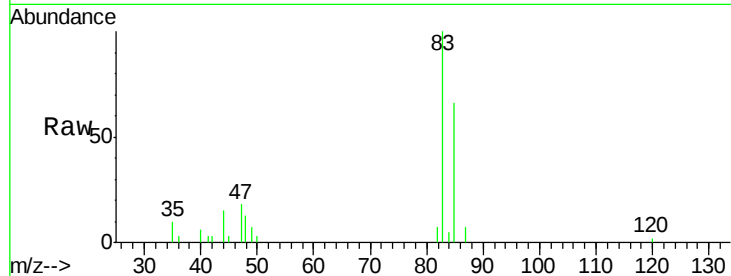




#30
Chloroform
Concen: 1.09 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

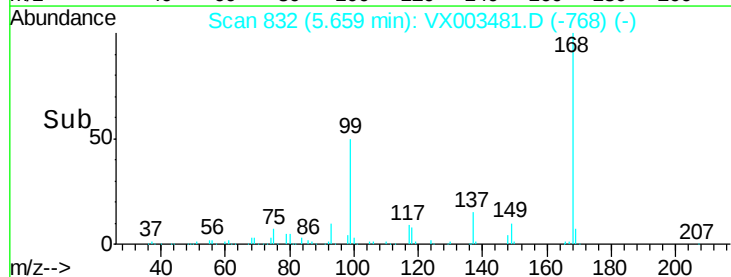
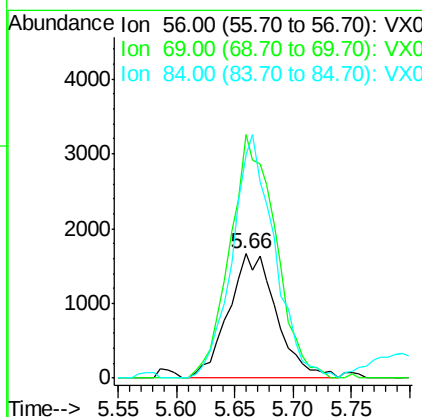
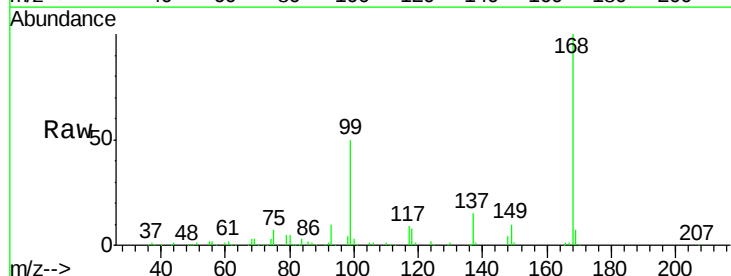
Instrument :
MSVOA_X
ClientSampleId :
TT101D1-071018

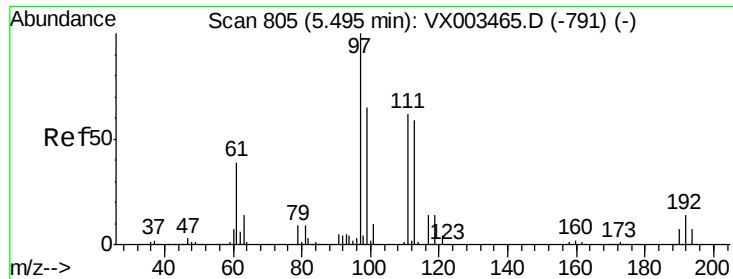
Tot Ion: 83 Resp: 6394
Ion Ratio Lower Upper
83 100
85 66.2 50.4 75.6



#31
Cyclohexane
Concen: 0.89 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.09 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

Tgt Ion: 56 Resp: 4776
Ion Ratio Lower Upper
56 100
69 196.1 23.7 35.5#
84 179.8 64.1 96.1#





#32

1,1,1-Trichloroethane

Concen: 0.58 ug/l

RT: 5.50 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-071018

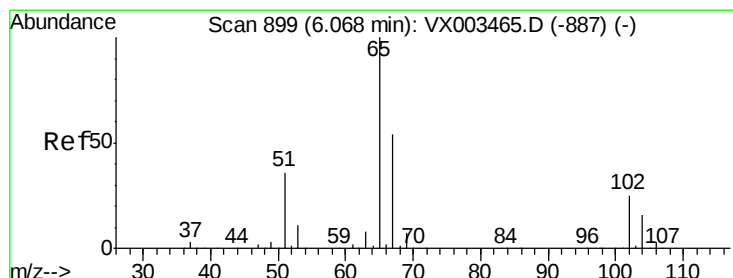
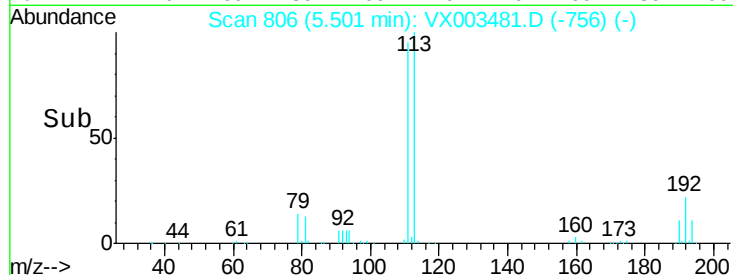
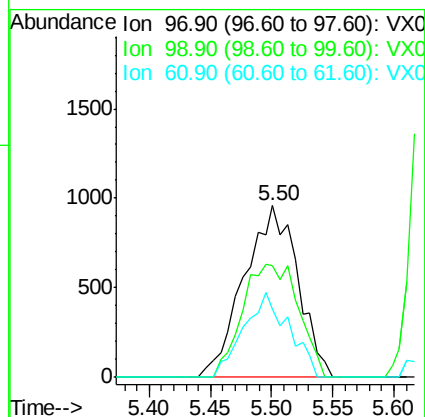
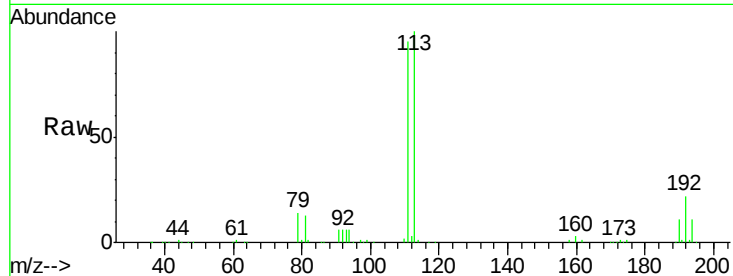
Tot Ion: 97 Resp: 2921

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

61 41.7 36.4 54.6



#33

1,2-Dichloroethane-d4

Concen: 51.07 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003481.D

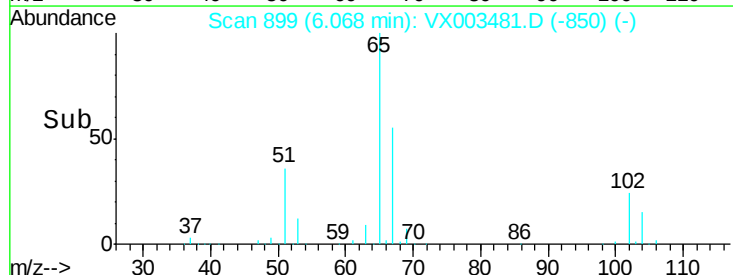
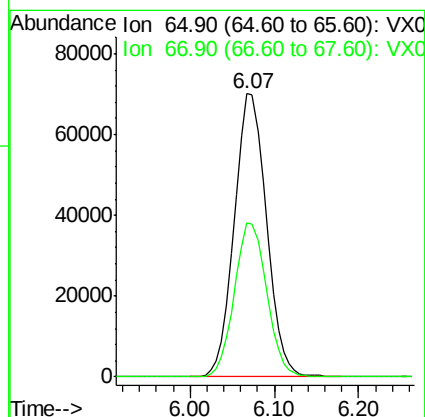
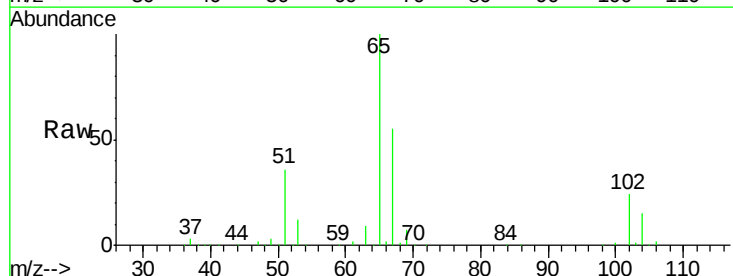
Acq: 19 Jul 2018 23:40

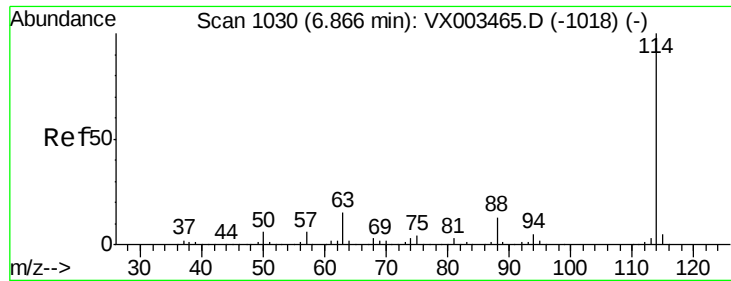
Tgt Ion: 65 Resp: 181785

Ion Ratio Lower Upper

65 100

67 54.8 0.0 102.6

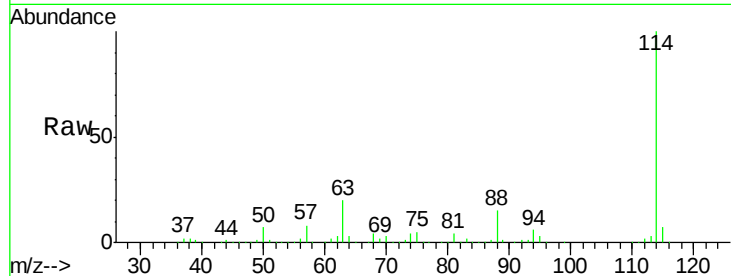




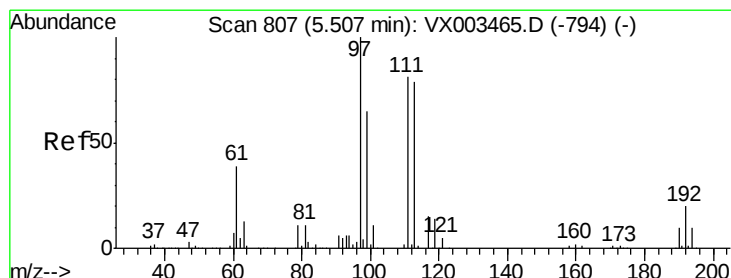
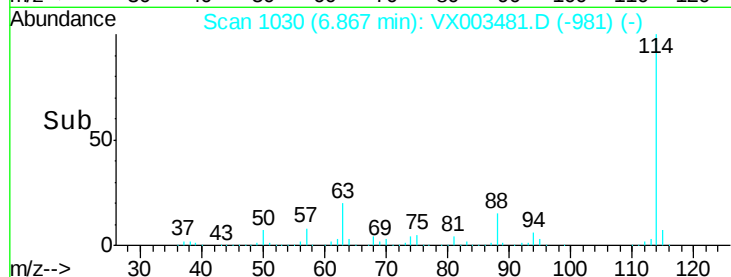
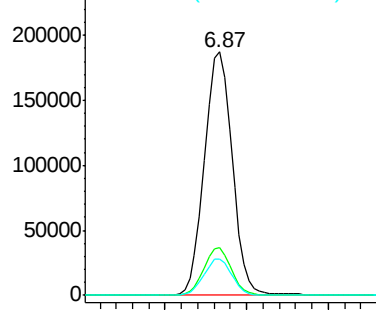
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003481.D
 Acq: 19 Jul 2018 23:40

Instrument :
 MSVOA_X
 ClientSampleId :
 TT101D1-071018

Tot Ion:114 Resp: 442801
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 41.4
 88 15.0 0.0 30.0

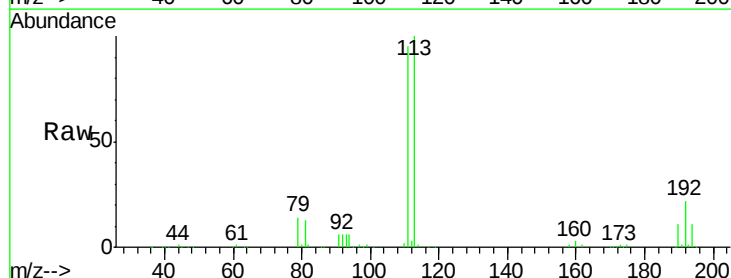


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

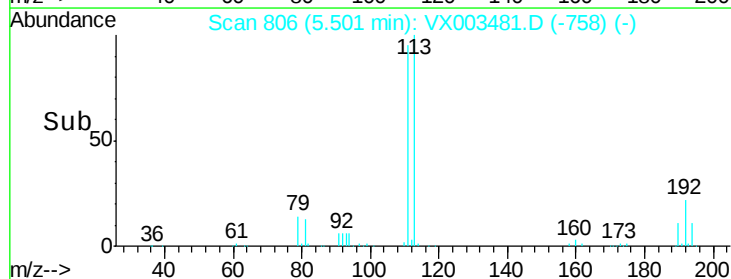
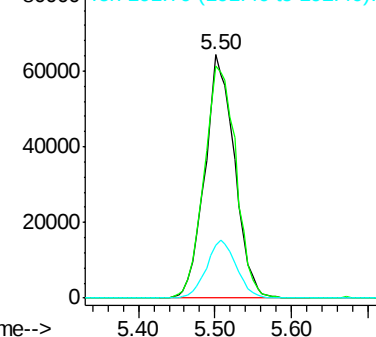


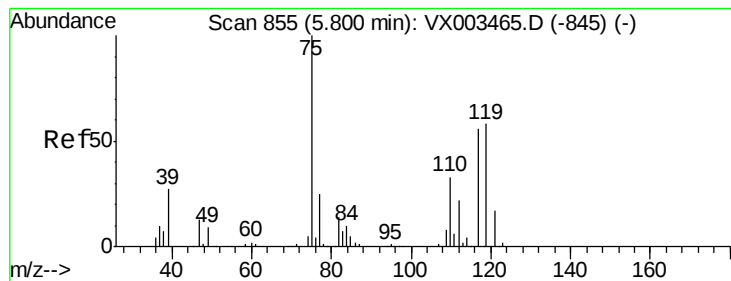
#35
 Dibromofluoromethane
 Concen: 51.10 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX003481.D
 Acq: 19 Jul 2018 23:40

Tgt Ion:113 Resp: 172331
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.4 122.0
 192 24.0 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: 4.01 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-071018

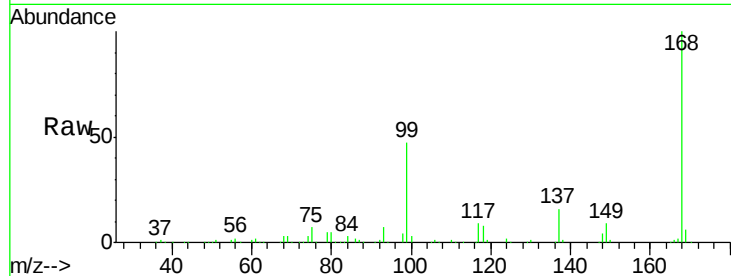
Tot Ion: 75 Resp: 19193

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.4#

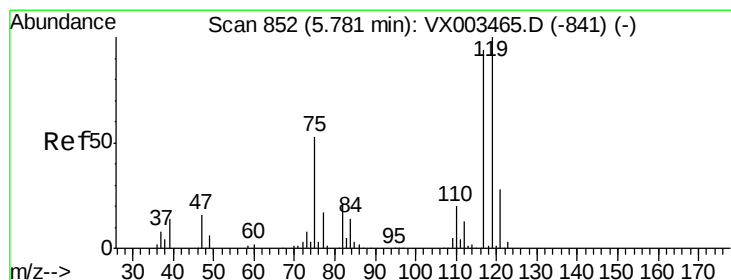
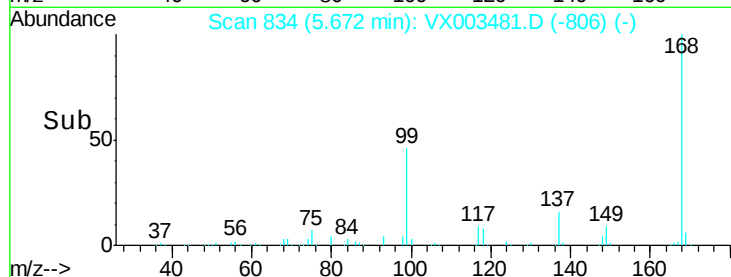
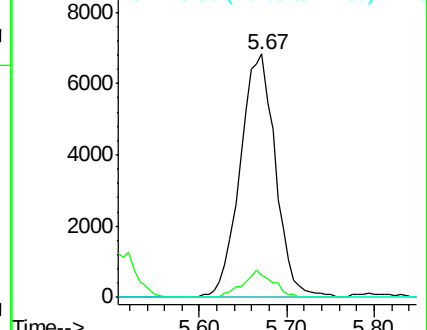
77 0.0 24.3 36.5#



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: 1.33 ug/l

RT: 5.79 min Scan# 853

Delta R.T. 0.01 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

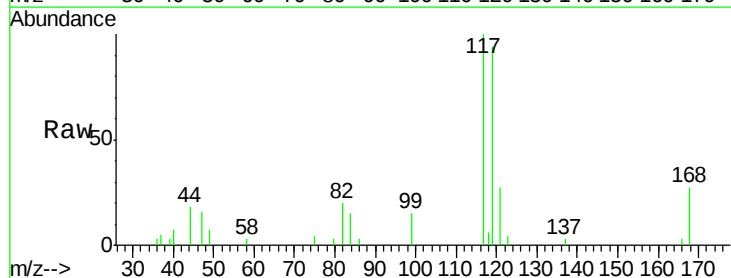
Tgt Ion: 117 Resp: 6223

Ion Ratio Lower Upper

117 100

119 93.6 77.4 116.0

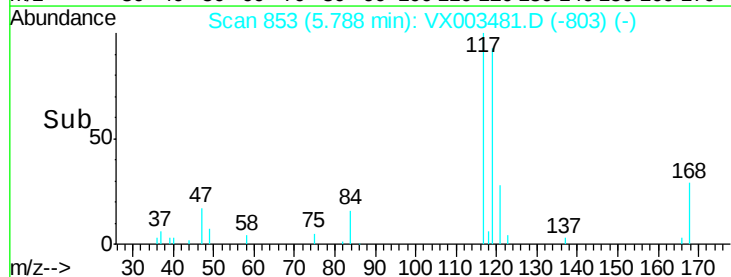
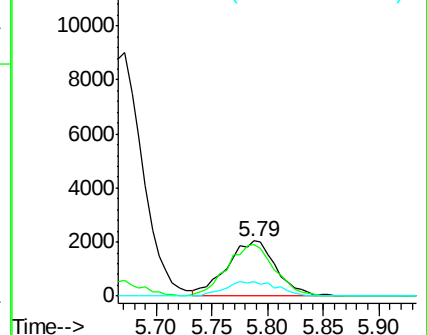
121 26.6 24.4 36.6

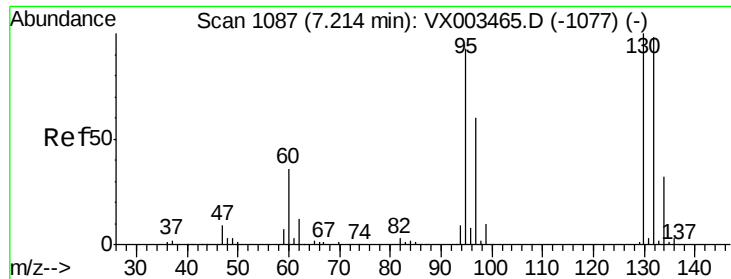


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 159.78 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

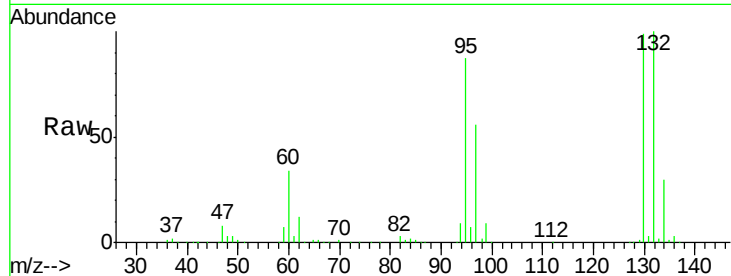
TT101D1-071018

Tot Ion:130 Resp: 687788

Ion Ratio Lower Upper

130 100

95 88.3 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

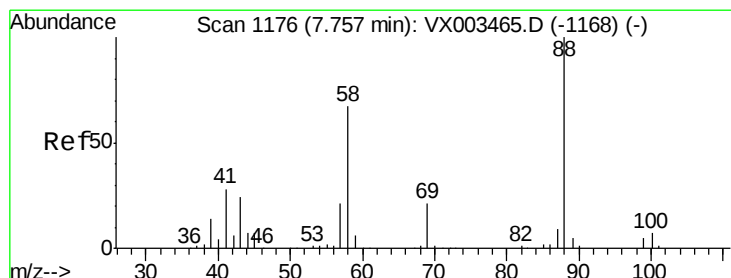
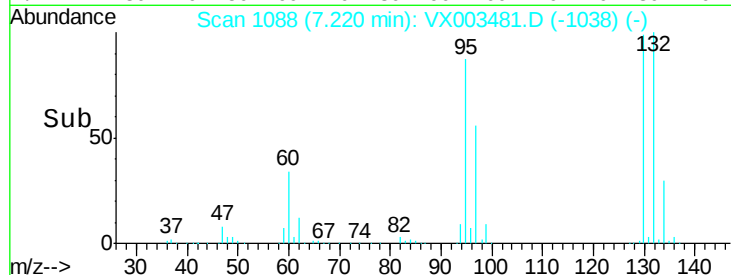
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 17.73 ug/l

RT: 7.76 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

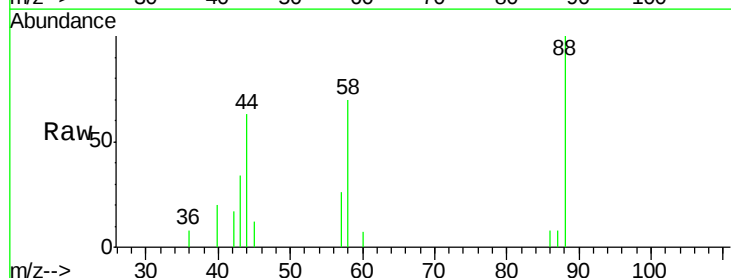
Tgt Ion: 88 Resp: 1458

Ion Ratio Lower Upper

88 100

43 37.6 29.8 44.6

58 70.0 57.1 85.7



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

800

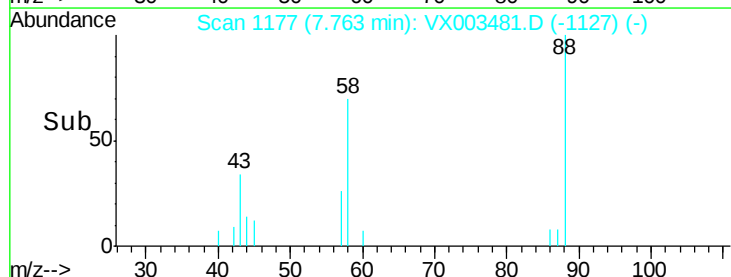
600

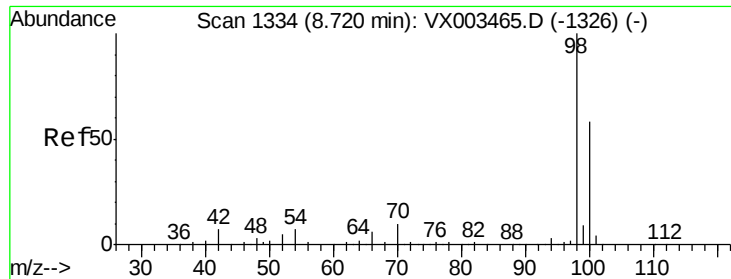
400

200

0

Time-->

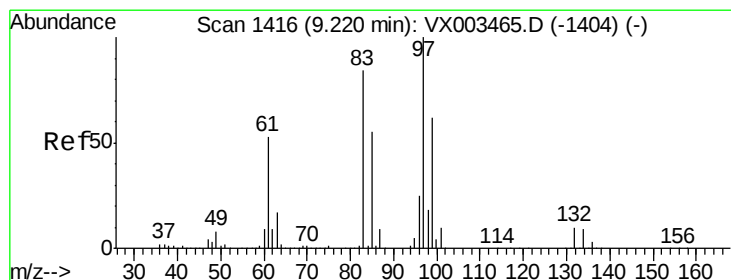
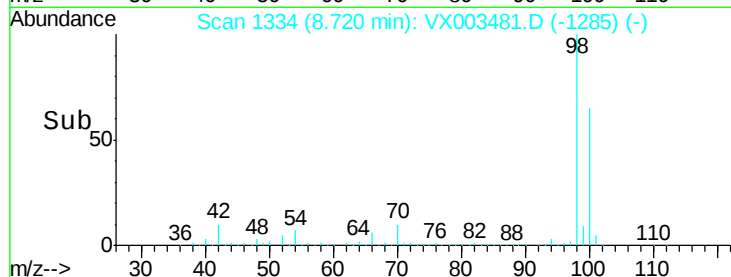
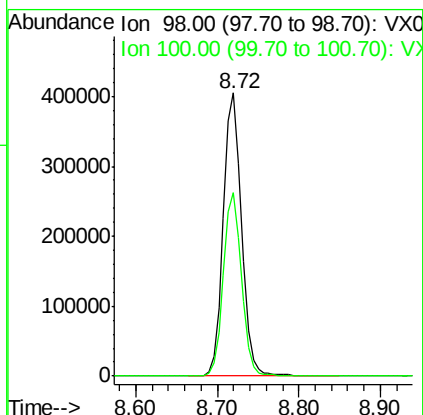
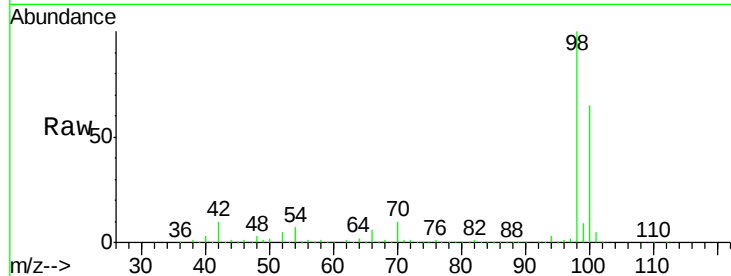




#50
Toluene-d8
Concen: 49.62 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

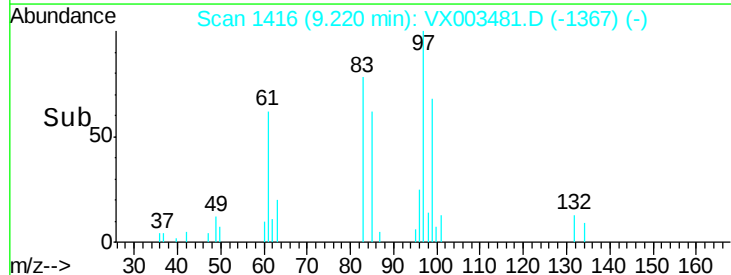
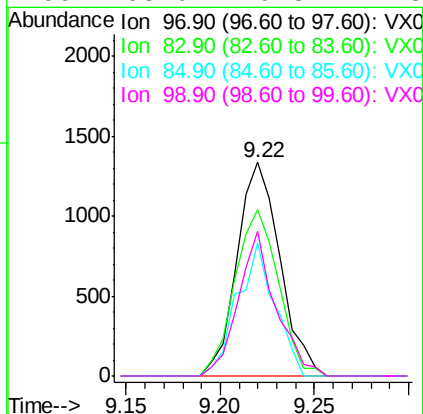
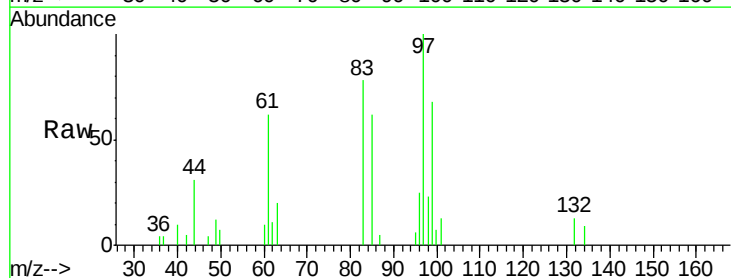
Instrument :
MSVOA_X
ClientSampleId :
TT101D1-071018

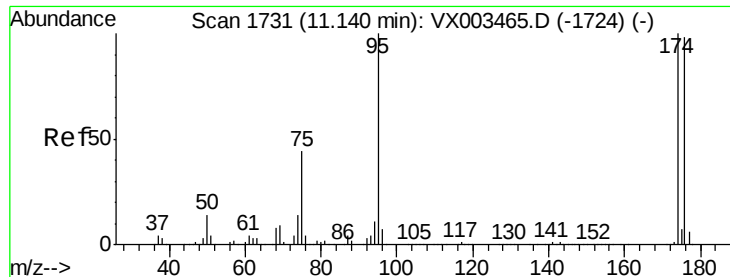
Tot Ion: 98 Resp: 629021
Ion Ratio Lower Upper
98 100
100 64.5 50.9 76.3



#55
1,1,2-Trichloroethane
Concen: 0.58 ug/l
RT: 9.22 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

Tgt Ion: 97 Resp: 2109
Ion Ratio Lower Upper
97 100
83 78.1 70.2 105.2
85 62.3 44.9 67.3
99 68.0 49.8 74.8

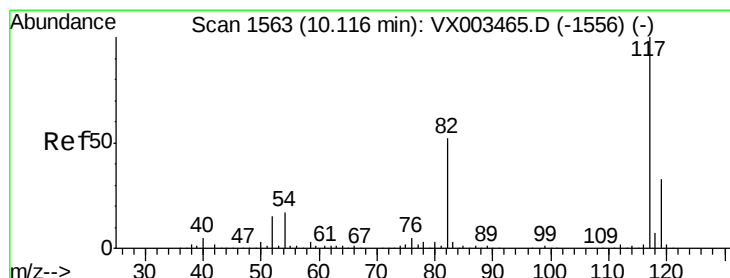
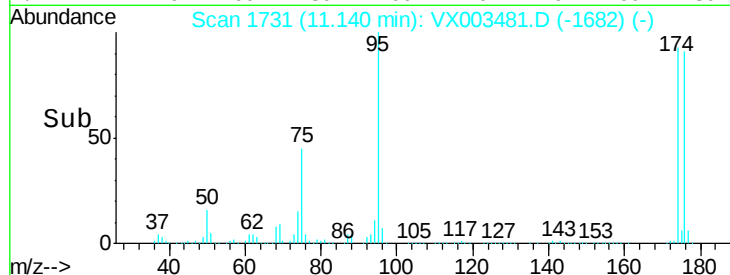
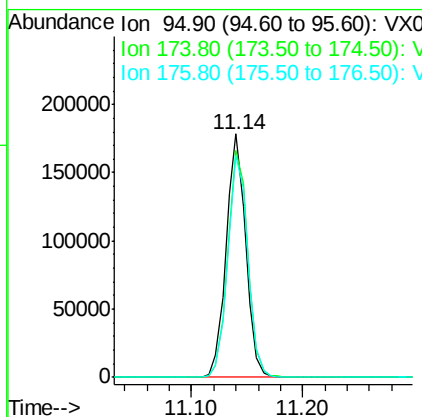
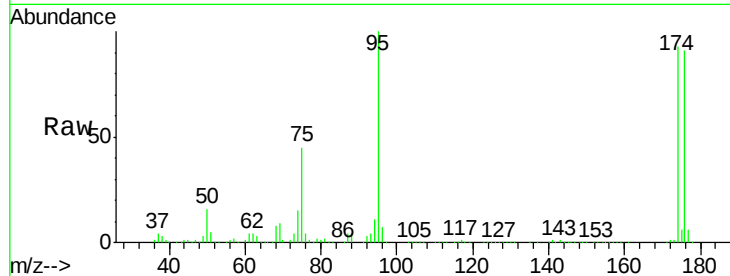




#62
4-Bromofluorobenzene
Concen: 46.68 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

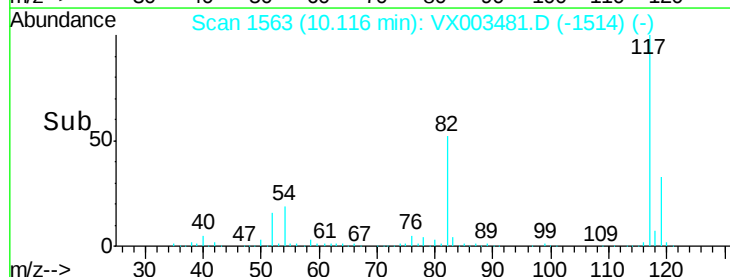
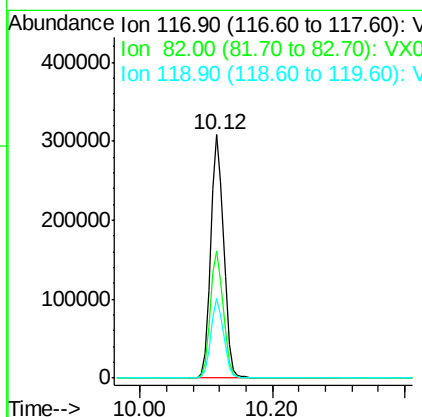
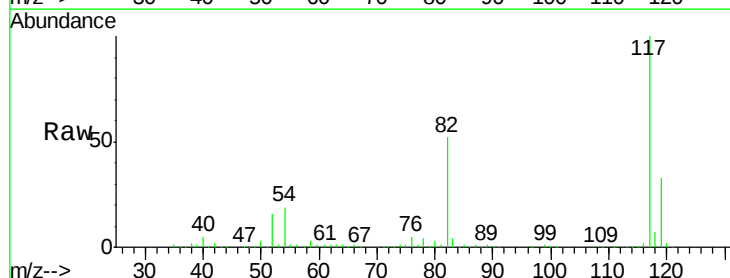
Instrument :
MSVOA_X
ClientSampleId :
TT101D1-071018

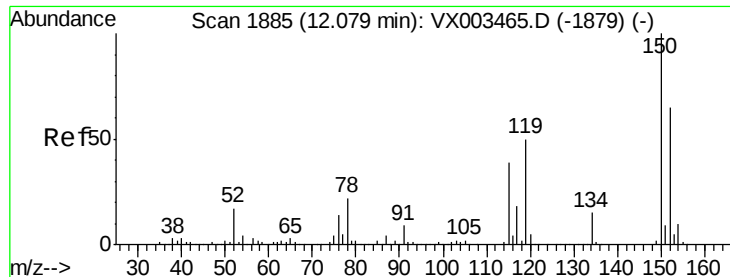
Tot Ion: 95 Resp: 215932
Ion Ratio Lower Upper
95 100
174 96.2 0.0 187.4
176 93.5 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003481.D
Acq: 19 Jul 2018 23:40

Tgt Ion: 117 Resp: 417347
Ion Ratio Lower Upper
117 100
82 52.5 45.0 67.4
119 32.5 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-071018

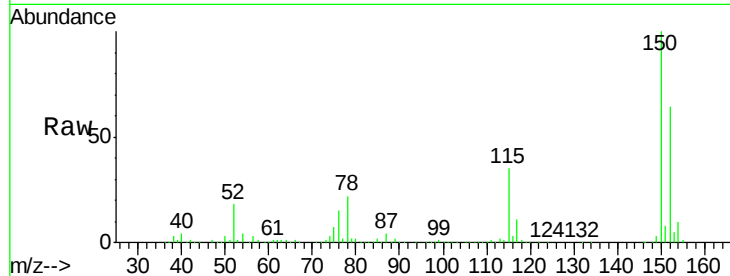
Tot Ion:152 Resp: 227280

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

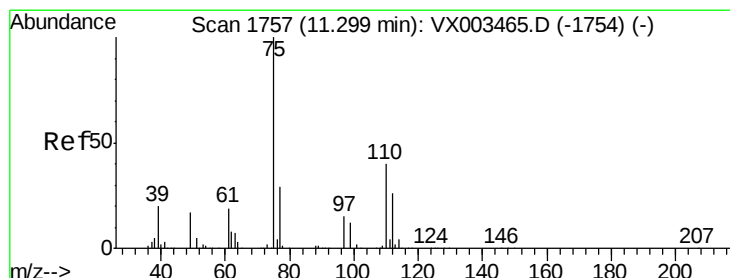
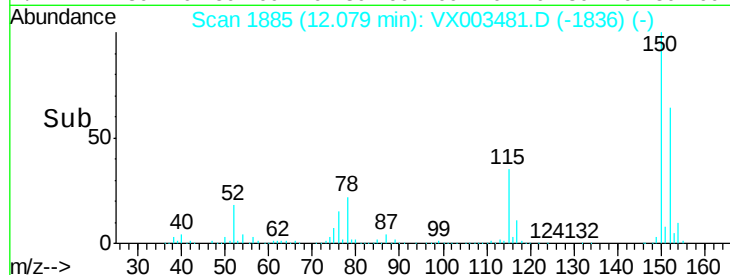
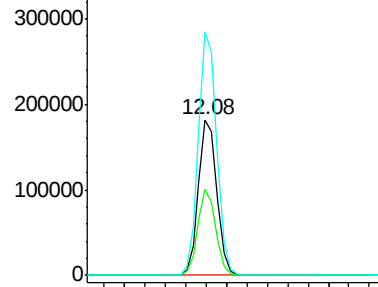
150 155.8 0.0 347.2



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: 24.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003481.D

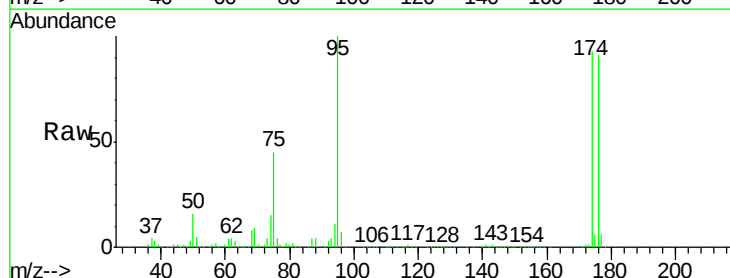
Acq: 19 Jul 2018 23:40

Tgt Ion: 75 Resp: 100464

Ion Ratio Lower Upper

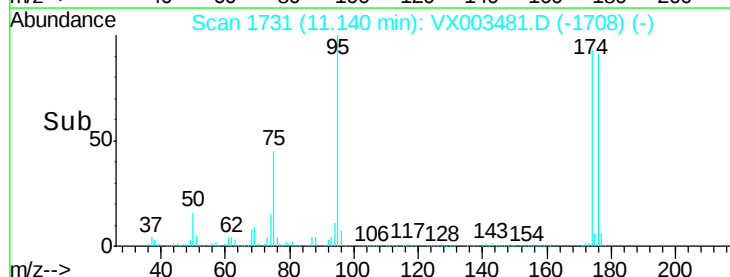
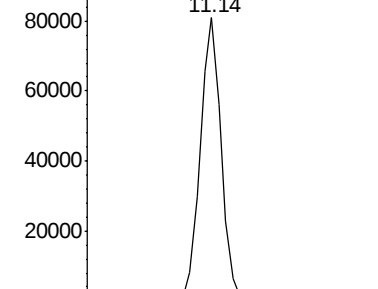
75 100

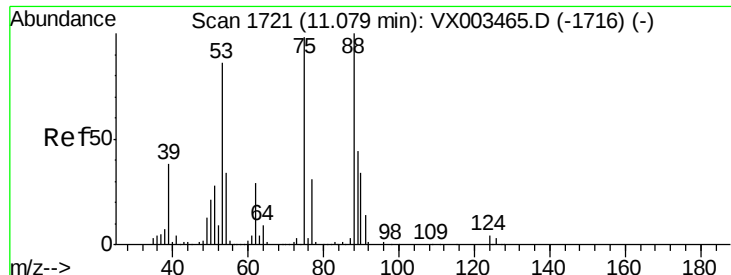
77 1.4 22.8 68.3#



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: 68.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003481.D

Acq: 19 Jul 2018 23:40

Instrument :

MSVOA_X

ClientSampleId :

TT101D1-071018

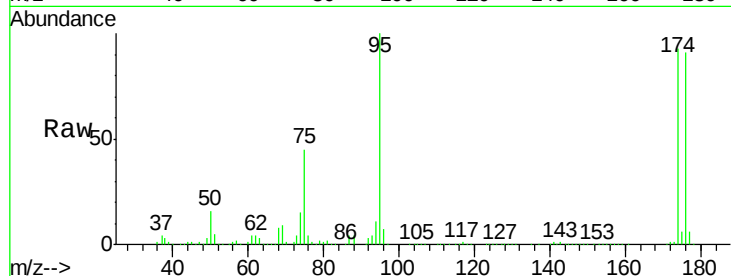
Tot Ion: 75 Resp: 100464

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#



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

