

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082019\
 Data File : VX011703.D
 Acq On : 20 Aug 2019 23:14
 Operator : JC/SP
 Sample : K4387-25
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T6-C-(2)

Quant Time: Aug 21 00:55:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	390377	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	557359	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	509138	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	237454	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	200185	55.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.60%	
35) Dibromofluoromethane	5.49	113	164003	44.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.98%	
50) Toluene-d8	8.71	98	627159	55.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.42%	
62) 4-Bromofluorobenzene	11.13	95	211785	44.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.34%	

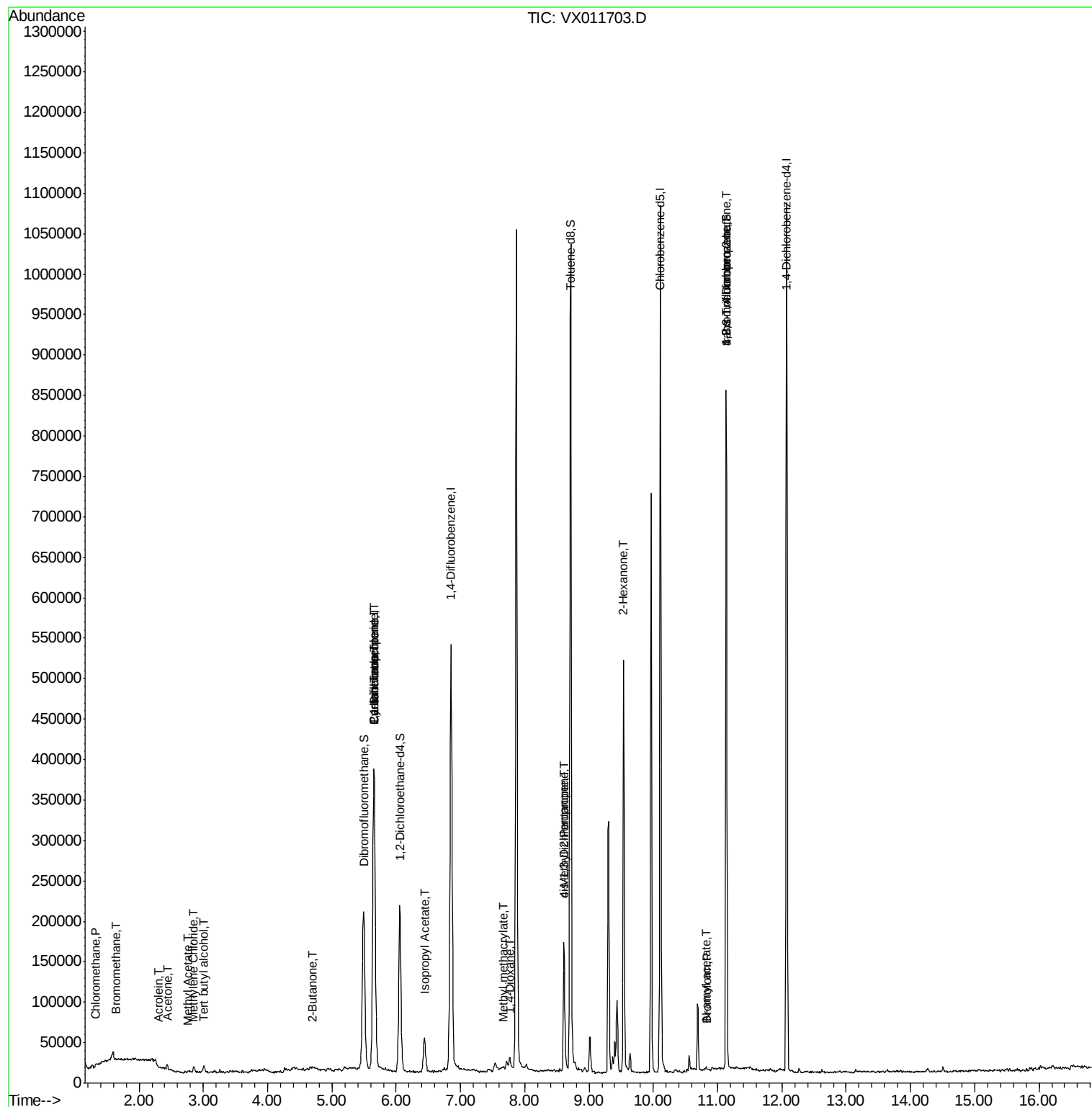
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	956	0.240	ug/l #	75
5) Bromomethane	1.64	94	668	0.414	ug/l #	35
11) Tert butyl alcohol	3.01	59	4388	4.941	ug/l #	82
13) Acrolein	2.31	56	705	14.638	ug/l #	52
16) Acetone	2.43	43	6958	3.822	ug/l	95
18) Methyl Acetate	2.76	43	4677	0.828	ug/l #	89
20) Methylene Chloride	2.85	84	3670	0.960	ug/l #	82
25) 2-Butanone	4.68	43	1114	0.390	ug/l #	89
31) Cyclohexane	5.65	56	5504	1.025	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	23901	5.016	ug/l #	51
38) Carbon Tetrachloride	5.65	117	33619	6.403	ug/l #	18
43) Isopropyl Acetate	6.44	43	59485	6.954	ug/l	98
48) Methyl methacrylate	7.68	41	3530	0.833	ug/l #	18
49) 1,4-Dioxane	7.76	88	199	1.766	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	54395	9.715	ug/l #	54
54) cis-1,3-Dichloropropene	8.61	75	25169	4.497	ug/l #	67
59) 2-Hexanone	9.54	43	62132	14.390	ug/l #	49
71) Bromoform	10.84	173	98	3.315	ug/l #	28
74) N-amyl acetate	10.82	43	2672	0.408	ug/l #	62
76) 1,2,3-Trichloropropane	11.13	75	104028	23.104	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	104028	61.457	ug/l #	11

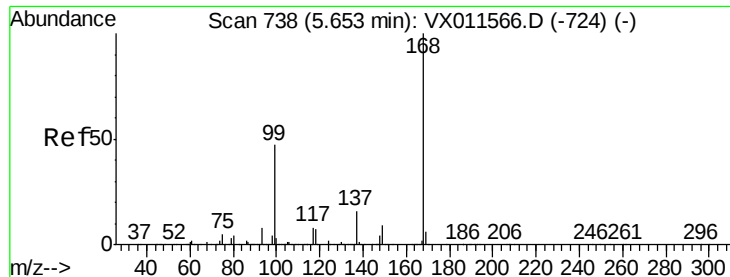
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 21 00:55:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:15:26 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

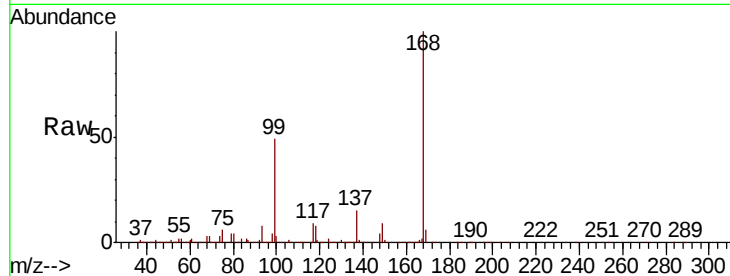
T6-C-(2)

Tgt Ion:168 Resp: 390377

Ion Ratio Lower Upper

168 100

99 49.4 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

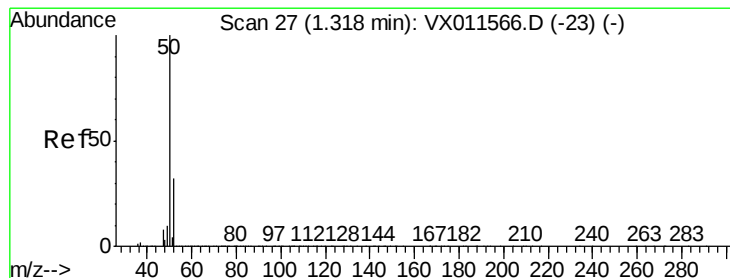
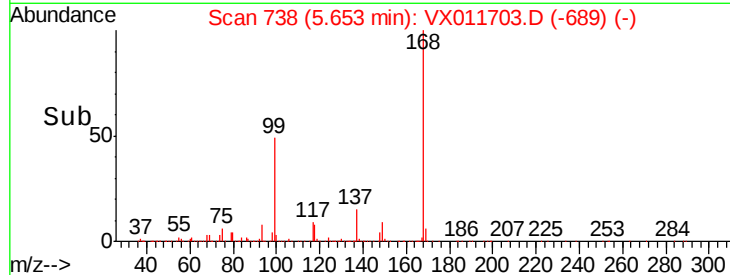
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.240 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011703.D

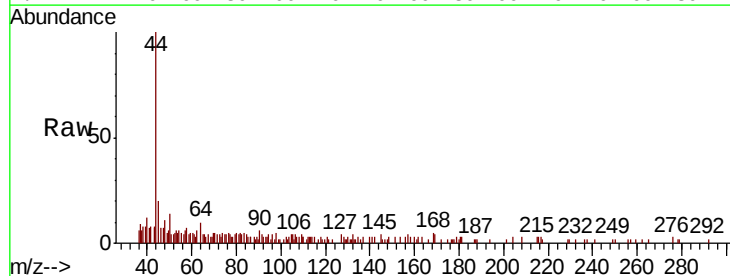
Acq: 20 Aug 2019 23:14

Tgt Ion: 50 Resp: 956

Ion Ratio Lower Upper

50 100

52 46.3 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

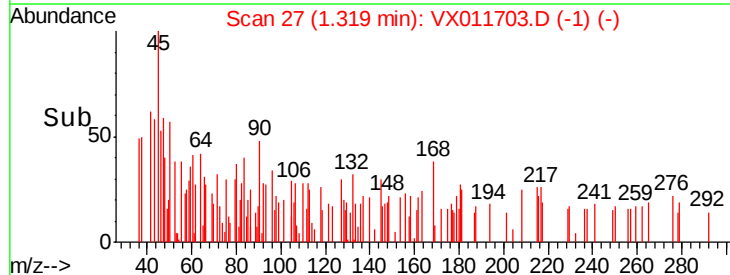
300

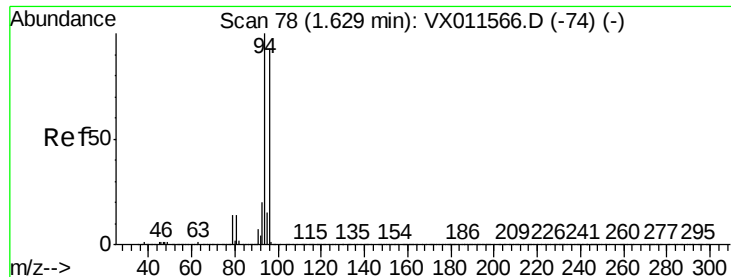
200

100

0

Time-->





#5

Bromomethane

Concen: 0.414 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

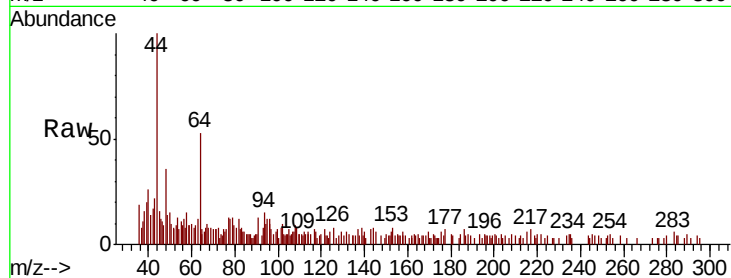
T6-C-(2)

Tgt Ion: 94 Resp: 668

Ion Ratio Lower Upper

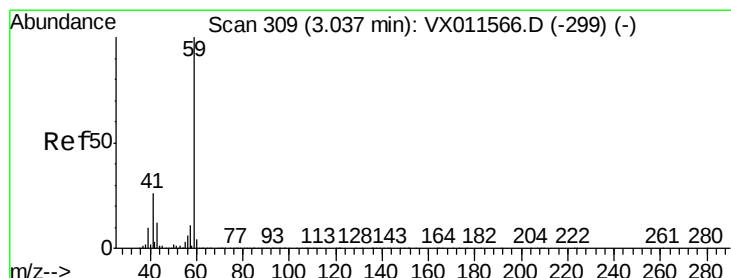
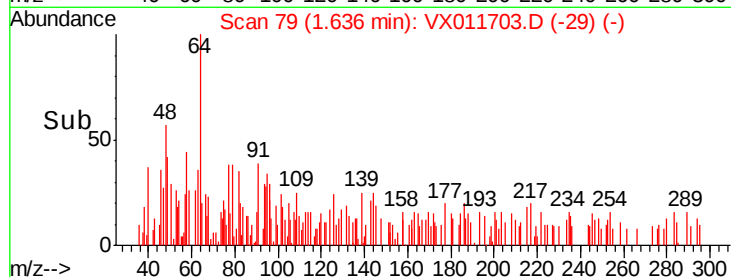
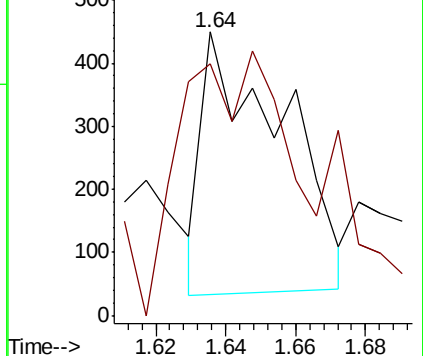
94 100

96 31.2 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 4.941 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011703.D

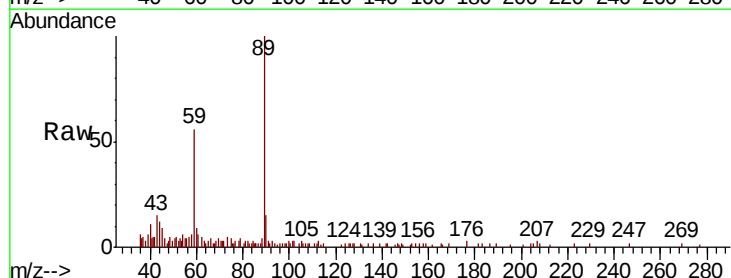
Acq: 20 Aug 2019 23:14

Tgt Ion: 59 Resp: 4388

Ion Ratio Lower Upper

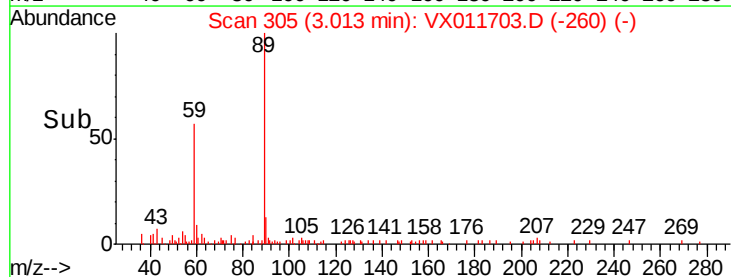
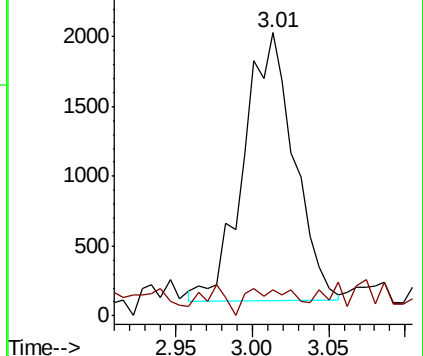
59 100

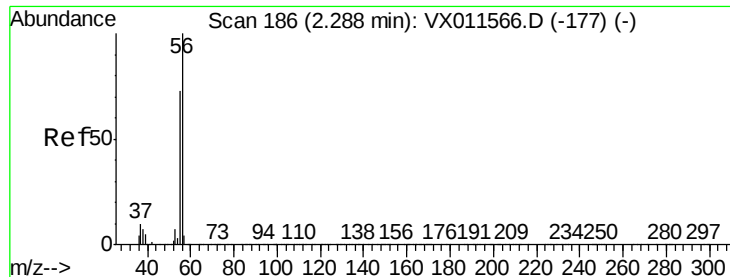
57 4.1 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 14.638 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.02 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampled :

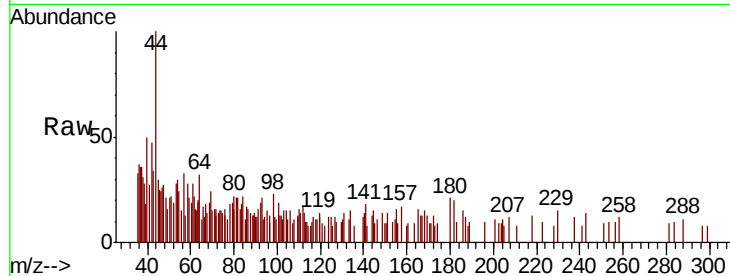
T6-C-(2)

Tgt Ion: 56 Resp: 705

Ion Ratio Lower Upper

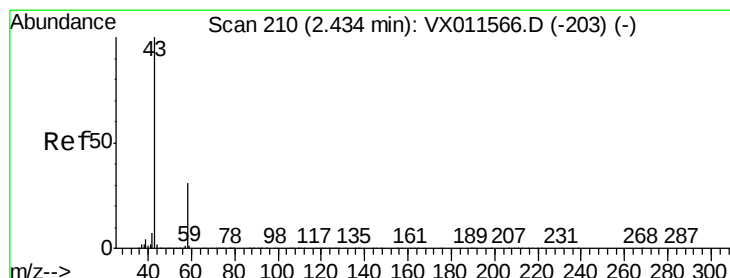
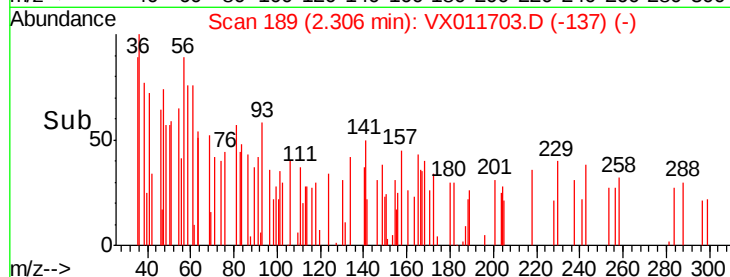
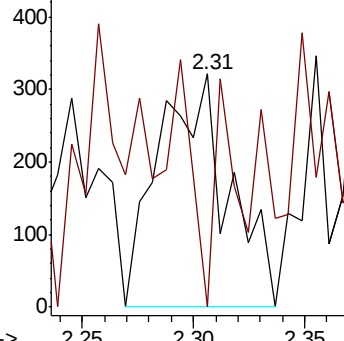
56 100

55 30.2 55.5 83.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.822 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011703.D

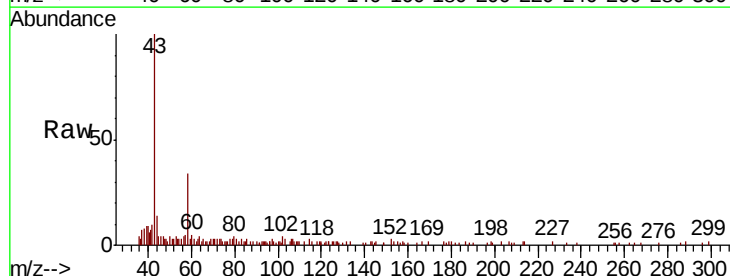
Acq: 20 Aug 2019 23:14

Tgt Ion: 43 Resp: 6958

Ion Ratio Lower Upper

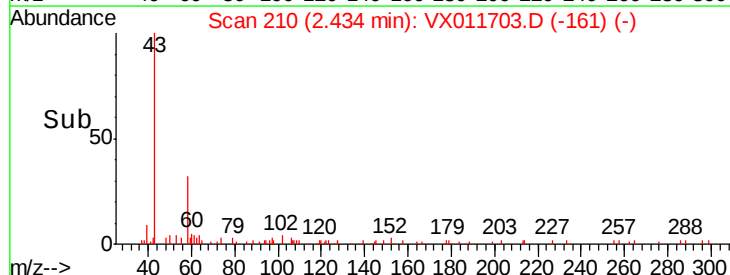
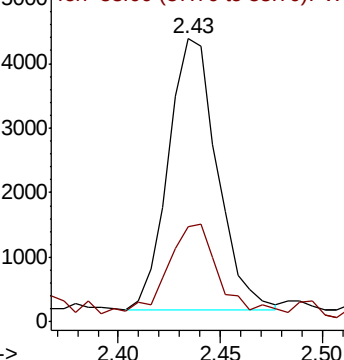
43 100

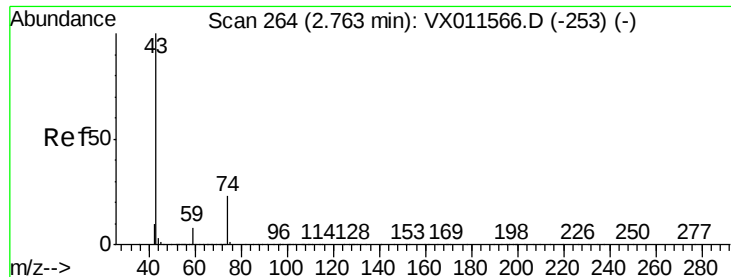
58 28.5 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

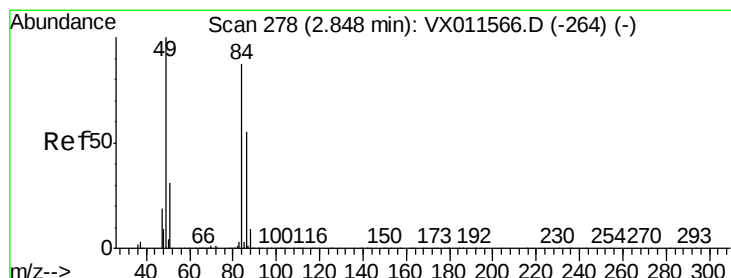
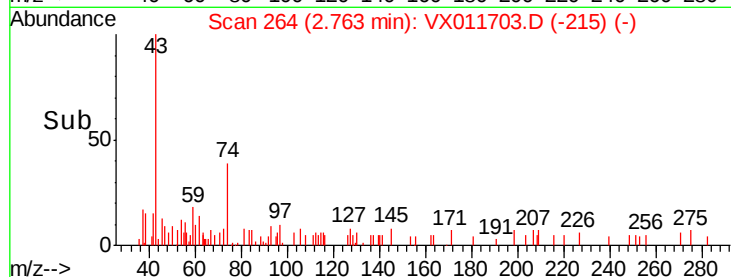
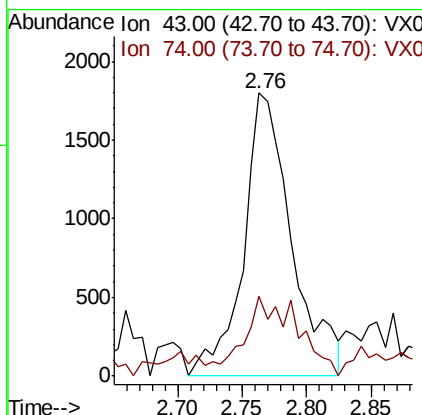
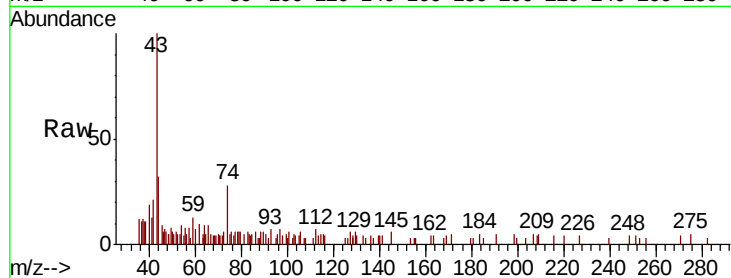




#18
Methyl Acetate
Concen: 0.828 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011703.D
Acq: 20 Aug 2019 23:14

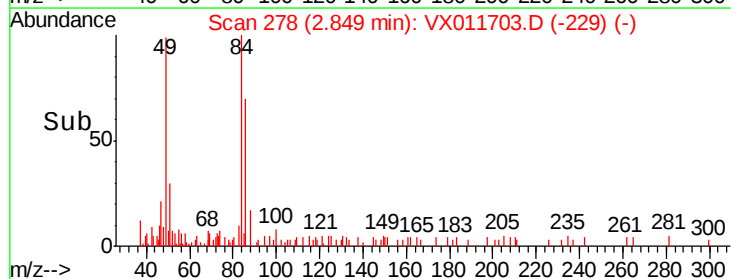
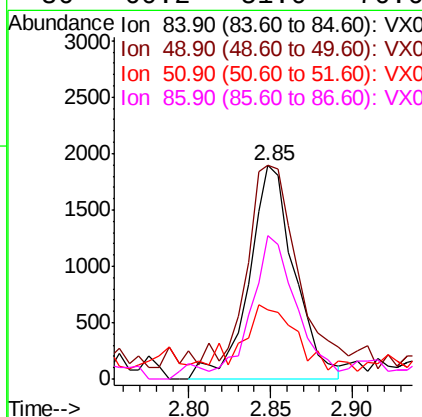
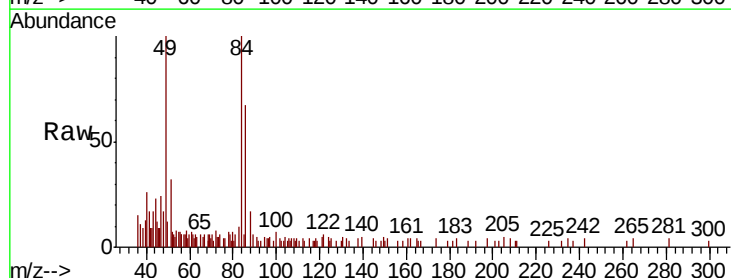
Instrument :
MSVOA_X
ClientSampleId :
T6-C-(2)

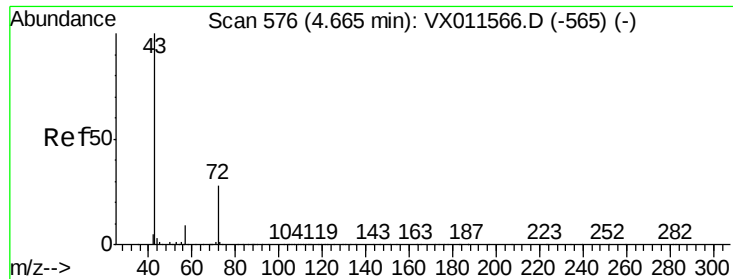
Tgt Ion: 43 Resp: 4677
Ion Ratio Lower Upper
43 100
74 30.1 19.7 29.5#



#20
Methylene Chloride
Concen: 0.960 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011703.D
Acq: 20 Aug 2019 23:14

Tgt Ion: 84 Resp: 3670
Ion Ratio Lower Upper
84 100
49 87.0 92.4 138.6#
51 25.5 28.5 42.7#
86 60.2 51.0 76.6

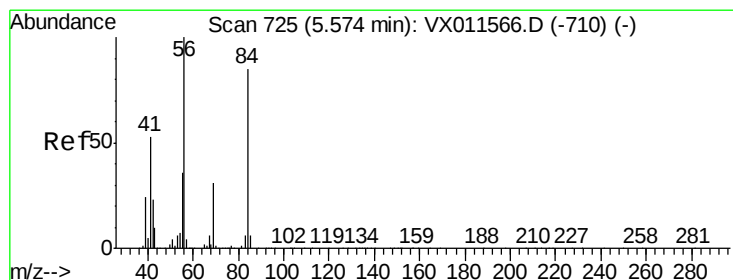
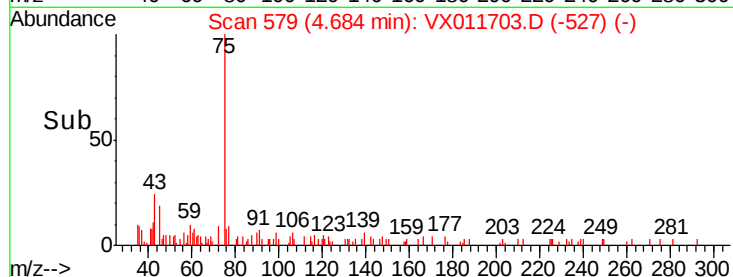
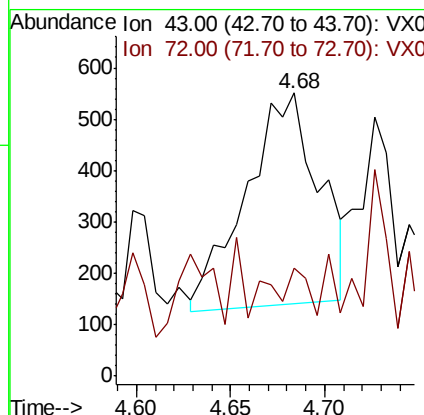
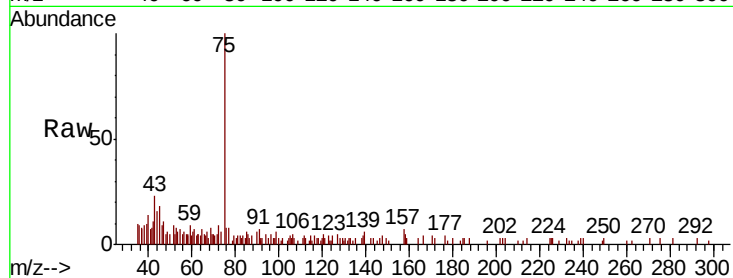




#25
2-Butanone
Concen: 0.390 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011703.D
Acq: 20 Aug 2019 23:14

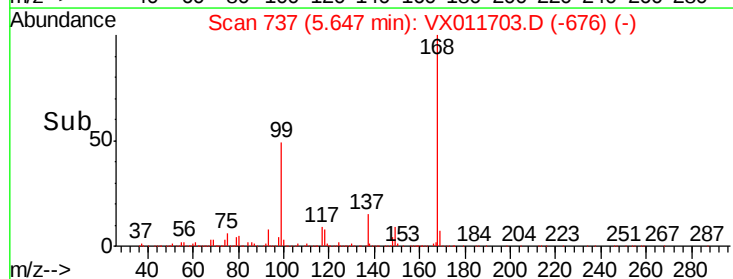
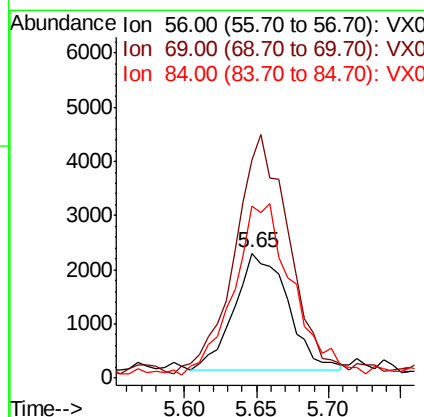
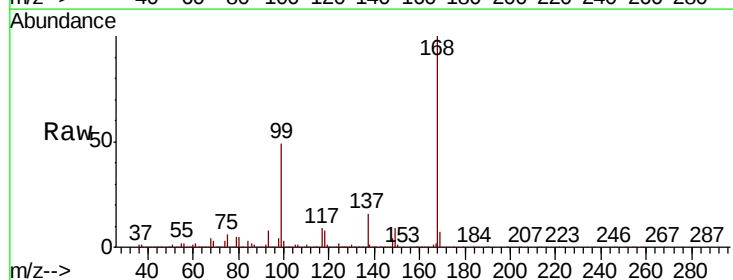
Instrument :
MSVOA_X
ClientSampled :
T6-C-(2)

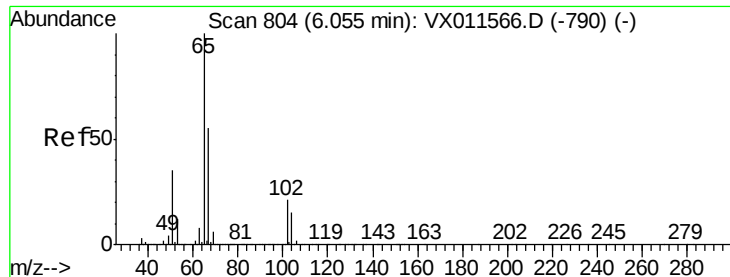
Tgt Ion: 43 Resp: 1114
Ion Ratio Lower Upper
43 100
72 21.8 22.2 33.4#



#31
Cyclohexane
Concen: 1.025 ug/l
RT: 5.65 min Scan# 737
Delta R.T. 0.07 min
Lab File: VX011703.D
Acq: 20 Aug 2019 23:14

Tgt Ion: 56 Resp: 5504
Ion Ratio Lower Upper
56 100
69 175.3 24.8 37.2#
84 136.4 67.9 101.9#





#33

1,2-Dichloroethane-d4

Concen: 55.296 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

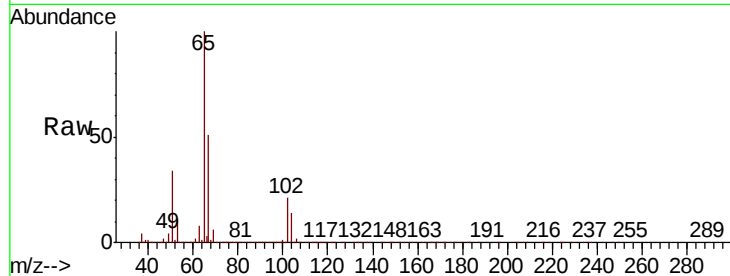
T6-C-(2)

Tgt Ion: 65 Resp: 200185

Ion Ratio Lower Upper

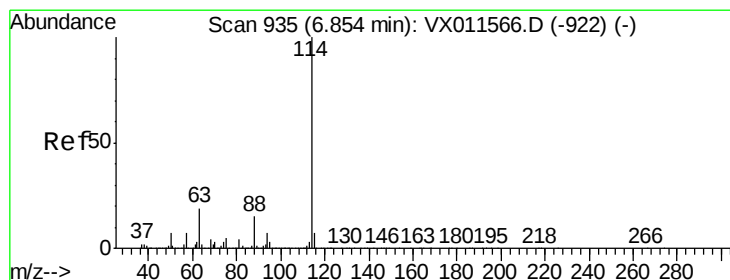
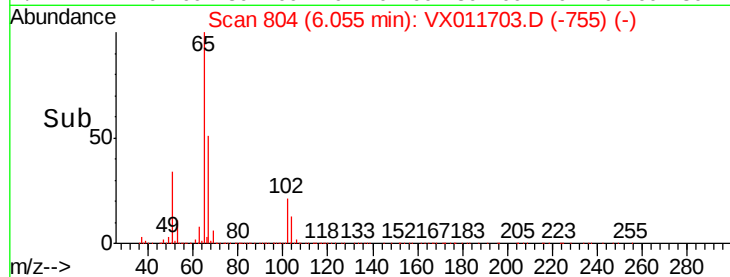
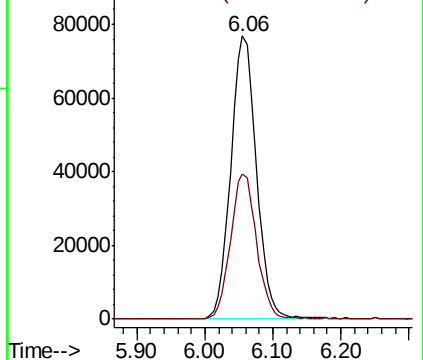
65 100

67 52.0 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

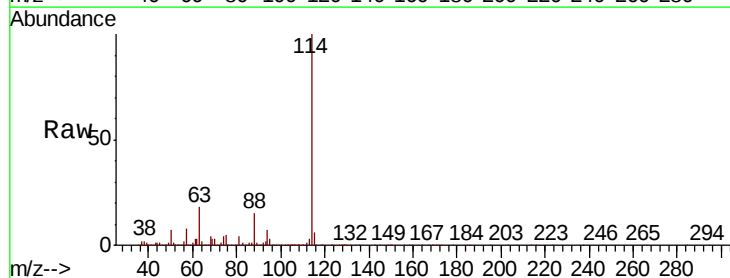
Tgt Ion: 114 Resp: 557359

Ion Ratio Lower Upper

114 100

63 18.1 0.0 37.8

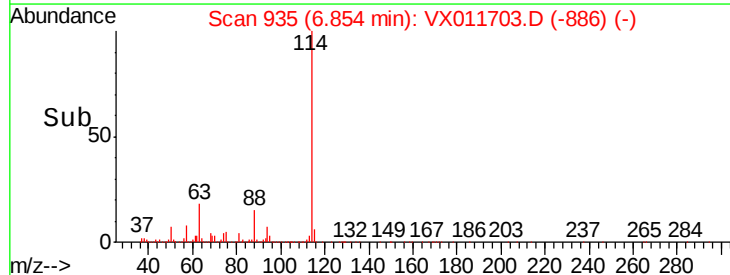
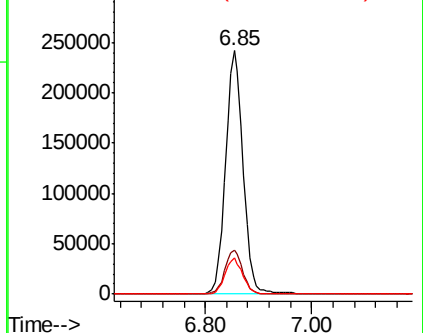
88 14.6 0.0 30.2

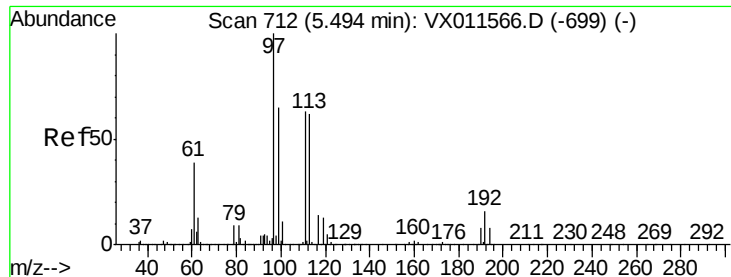


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 44.988 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

T6-C-(2)

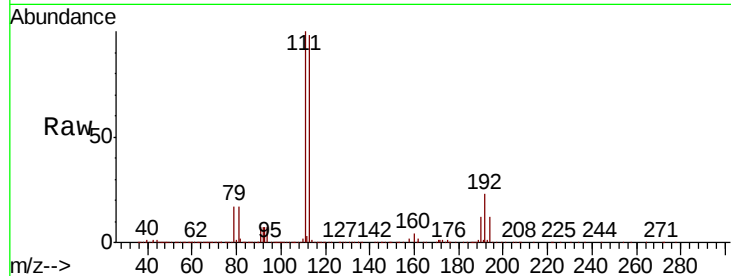
Tgt Ion:113 Resp: 164003

Ion Ratio Lower Upper

113 100

111 102.0 81.1 121.7

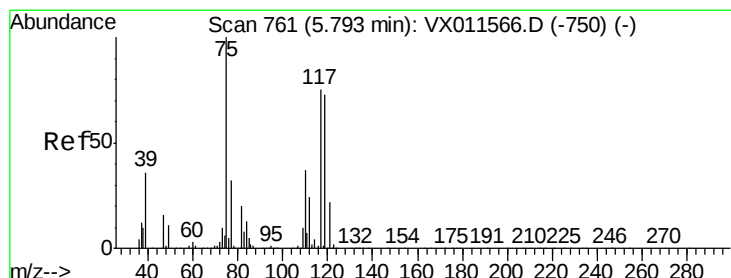
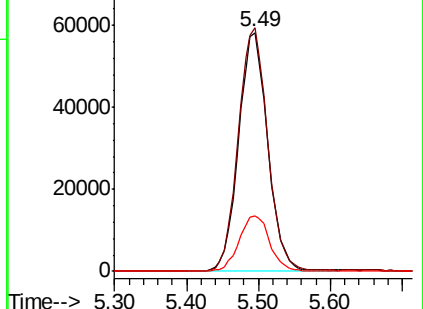
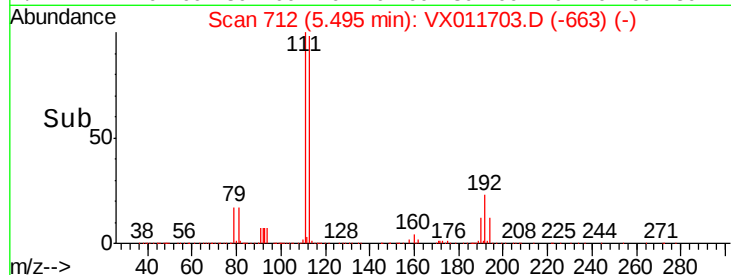
192 24.3 20.8 31.2



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: 5.016 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

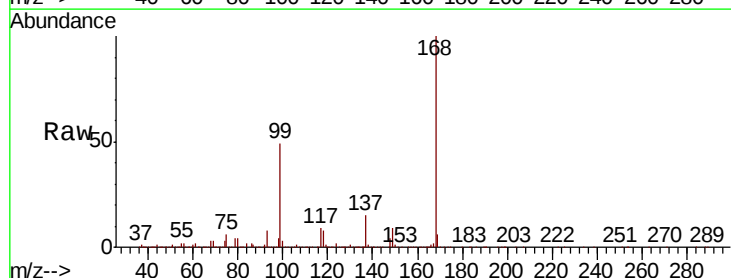
Tgt Ion: 75 Resp: 23901

Ion Ratio Lower Upper

75 100

110 12.4 19.4 58.1#

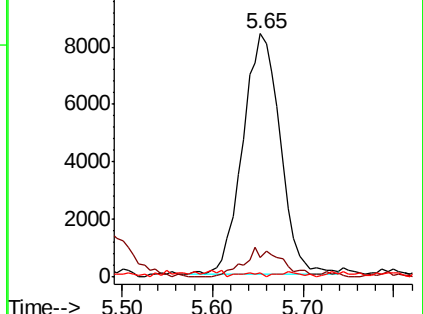
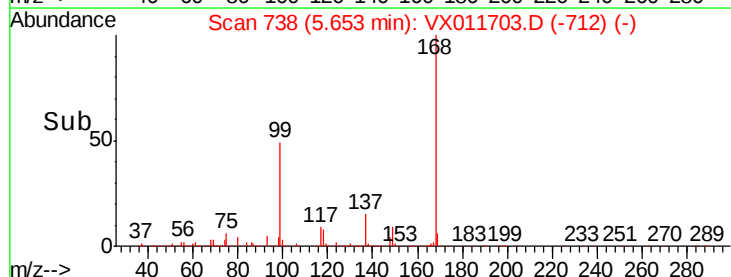
77 0.9 25.1 37.7#

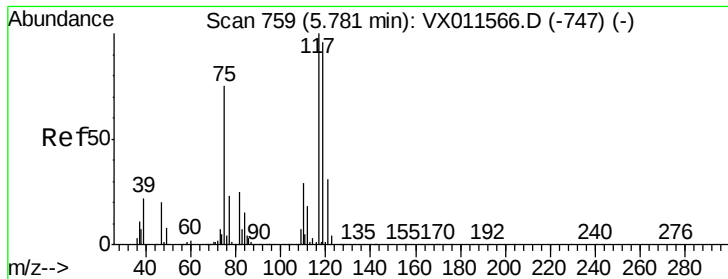


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.403 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

T6-C-(2)

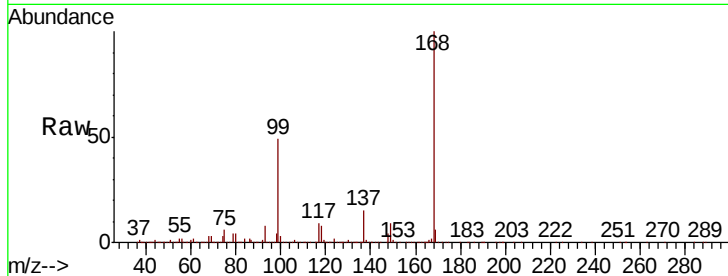
Tgt Ion:117 Resp: 33619

Ion Ratio Lower Upper

117 100

119 6.9 76.9 115.3#

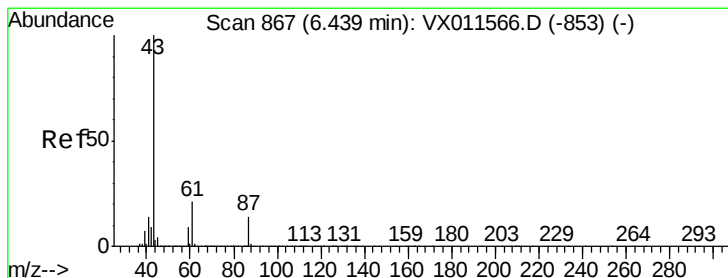
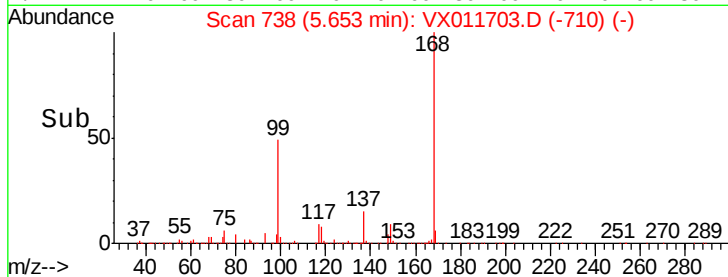
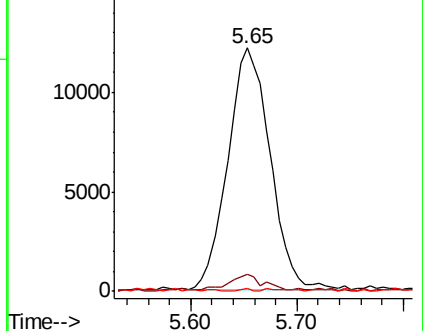
121 1.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 6.954 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

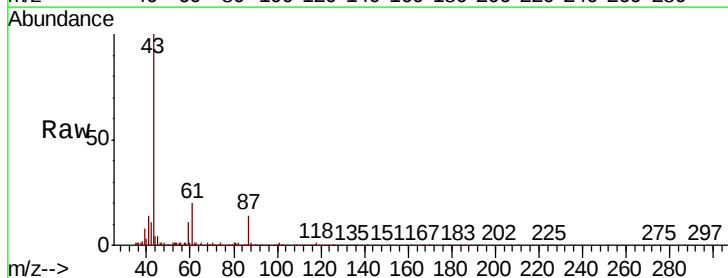
Tgt Ion: 43 Resp: 59485

Ion Ratio Lower Upper

43 100

61 21.5 16.6 24.8

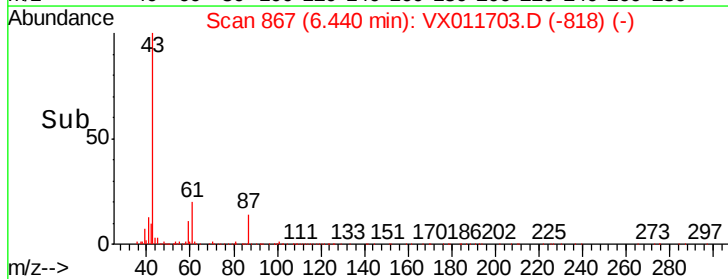
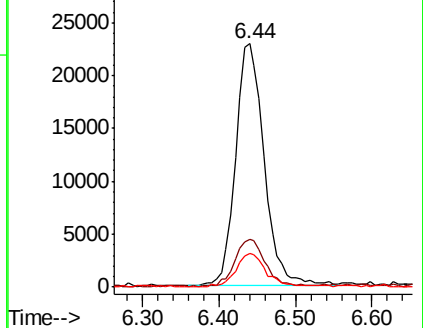
87 15.0 11.4 17.2

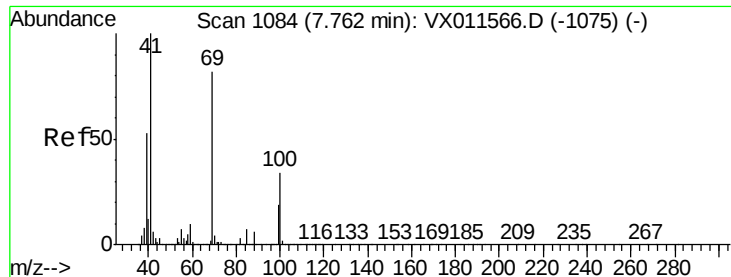


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

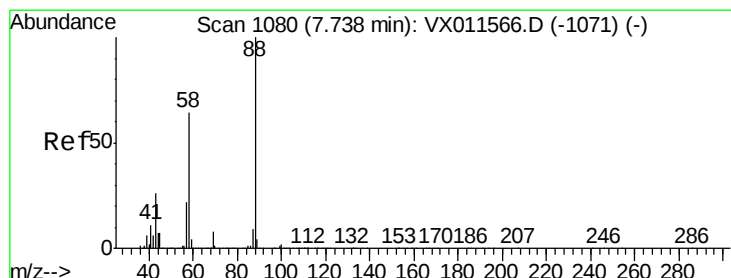
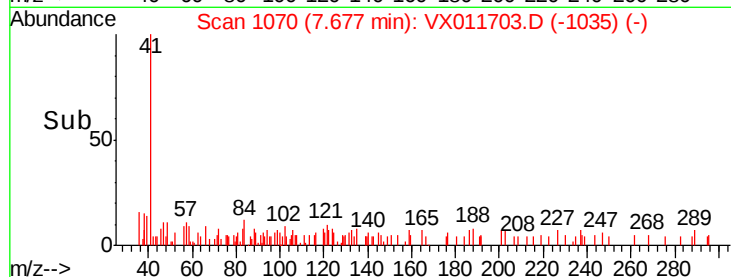
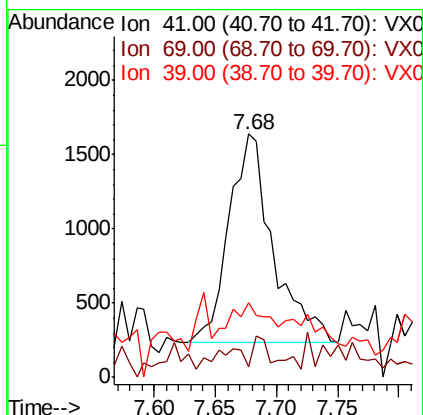
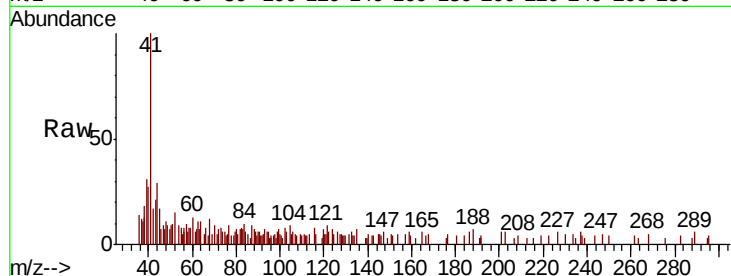




#48
Methyl methacrylate
Concen: 0.833 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011703.D
Acq: 20 Aug 2019 23:14

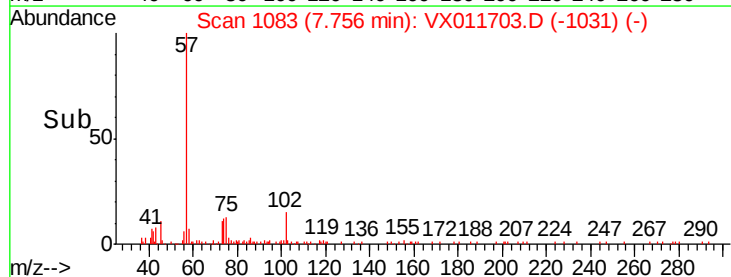
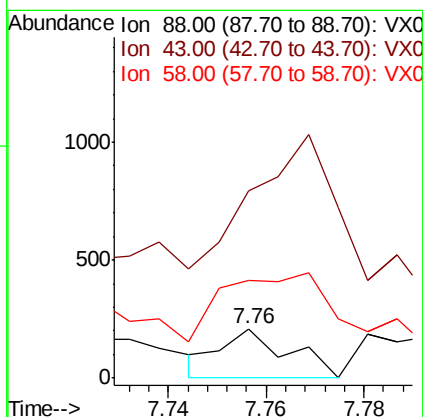
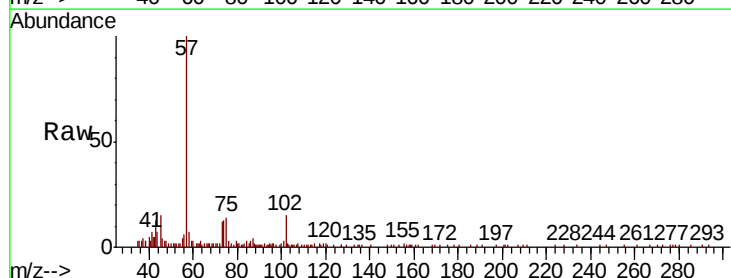
Instrument :
MSVOA_X
ClientSampleId :
T6-C-(2)

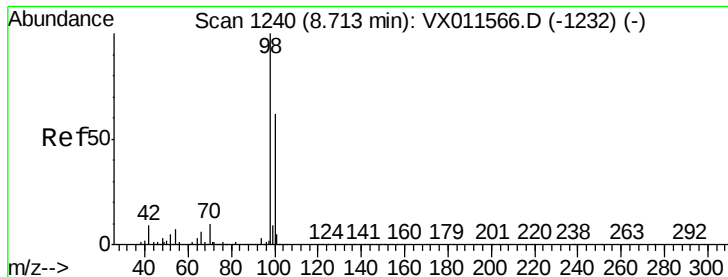
Tgt Ion: 41 Resp: 3530
Ion Ratio Lower Upper
41 100
69 5.7 67.9 101.9#
39 0.0 41.6 62.4#



#49
1,4-Dioxane
Concen: 1.766 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VX011703.D
Acq: 20 Aug 2019 23:14

Tgt Ion: 88 Resp: 199
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.0#
58 261.3 54.3 81.5#





#50

Toluene-d8

Concen: 55.213 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

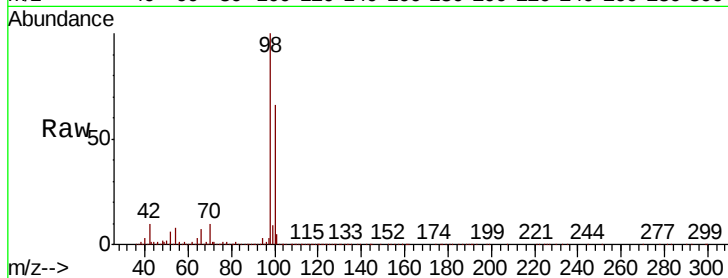
T6-C-(2)

Tgt Ion: 98 Resp: 627159

Ion Ratio Lower Upper

98 100

100 64.8 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

400000

300000

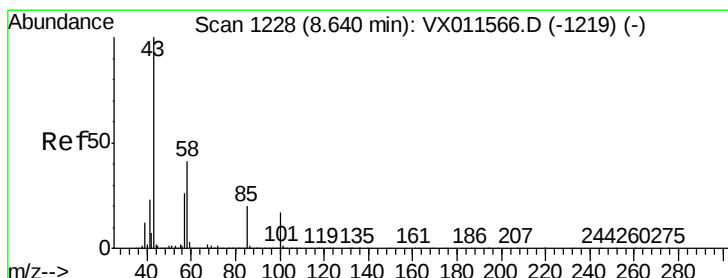
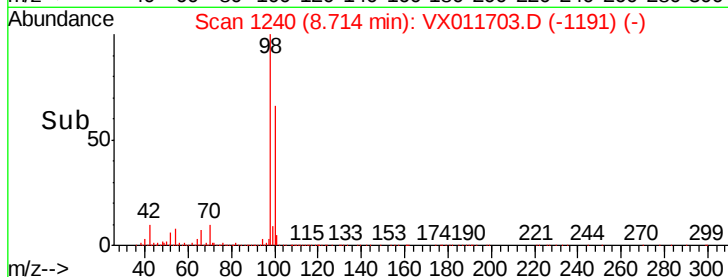
200000

100000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 9.715 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011703.D

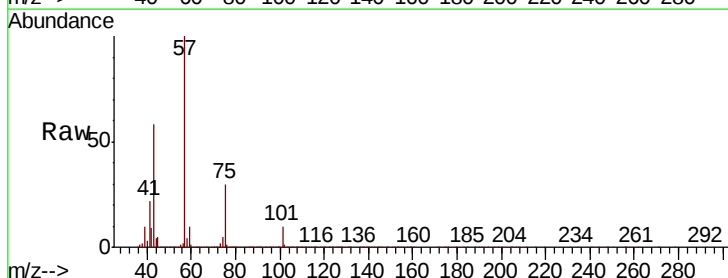
Acq: 20 Aug 2019 23:14

Tgt Ion: 43 Resp: 54395

Ion Ratio Lower Upper

43 100

58 11.3 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.61

30000

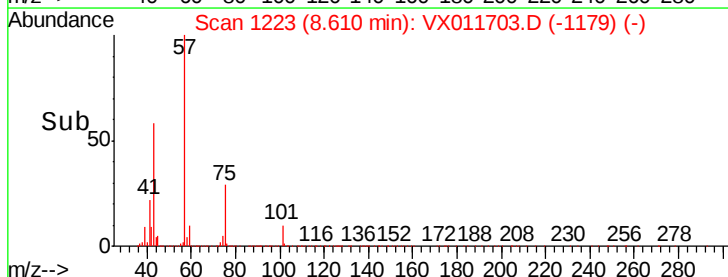
20000

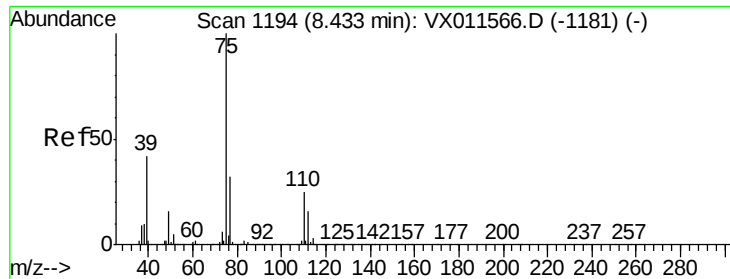
10000

0

Time-->

8.55 8.60 8.65 8.70





#54

cis-1,3-Dichloropropene

Concen: 4.497 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

T6-C-(2)

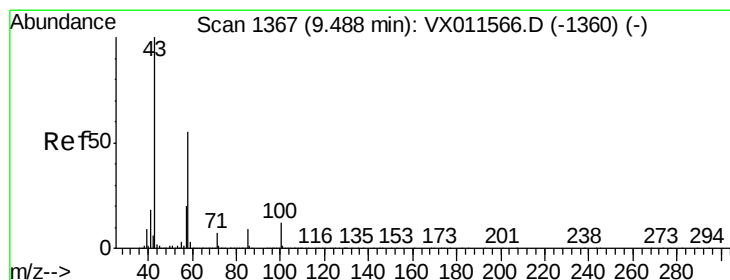
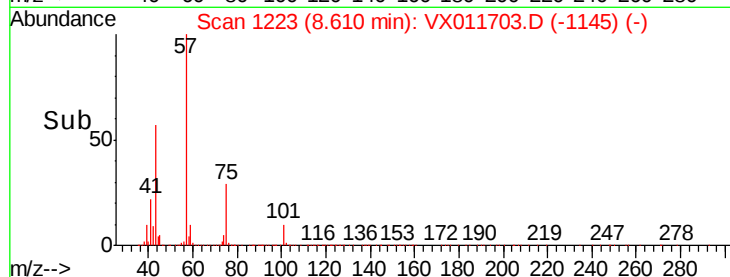
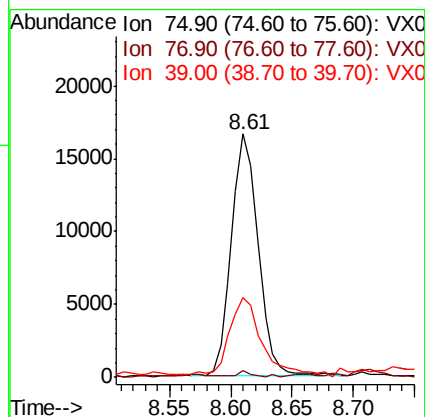
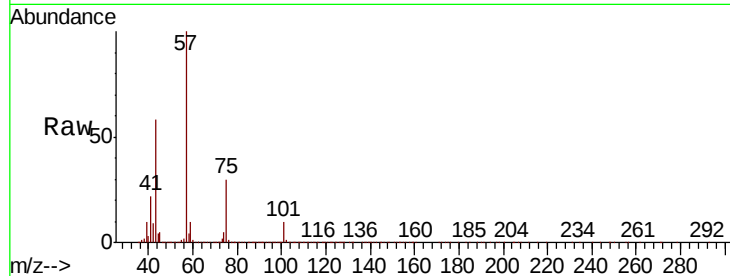
Tgt Ion: 75 Resp: 25169

Ion Ratio Lower Upper

75 100

77 1.5 25.5 38.3#

39 31.7 33.6 50.4#



#59

2-Hexanone

Concen: 14.390 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011703.D

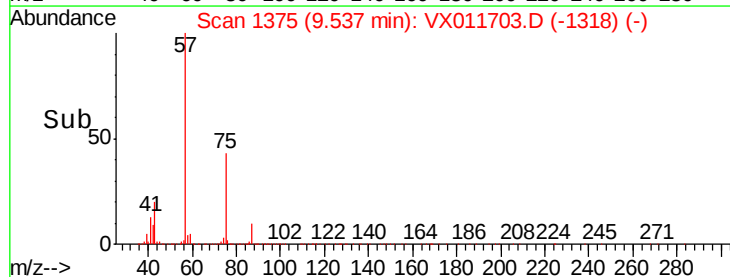
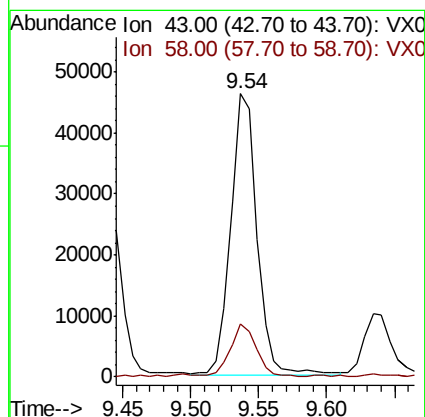
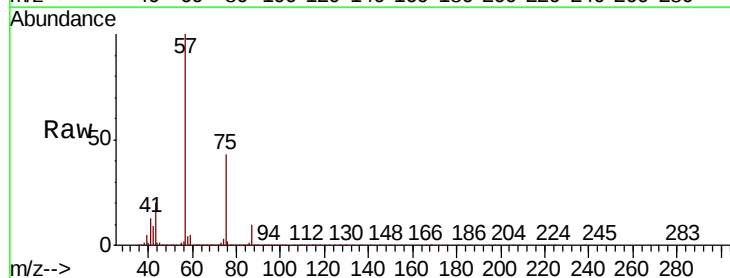
Acq: 20 Aug 2019 23:14

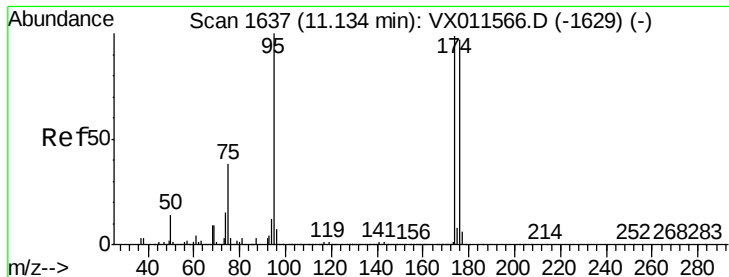
Tgt Ion: 43 Resp: 62132

Ion Ratio Lower Upper

43 100

58 18.3 27.5 82.4#





#62

4-Bromofluorobenzene

Concen: 44.173 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

T6-C-(2)

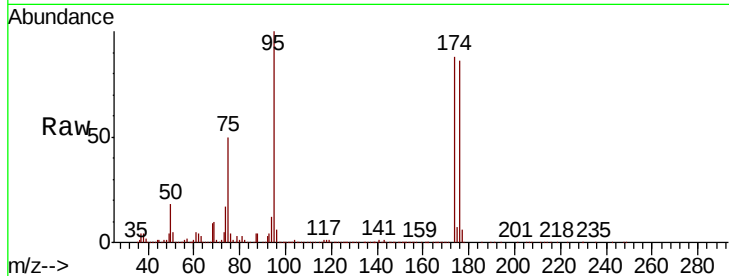
Tgt Ion: 95 Resp: 211785

Ion Ratio Lower Upper

95 100

174 94.0 0.0 200.6

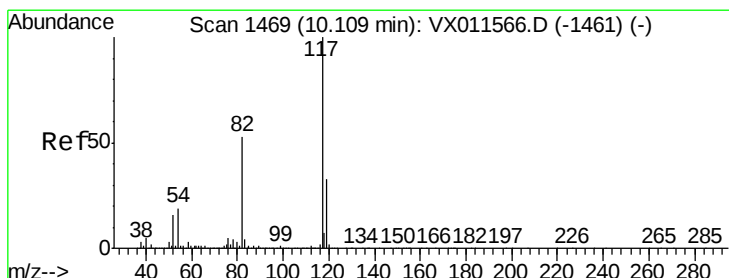
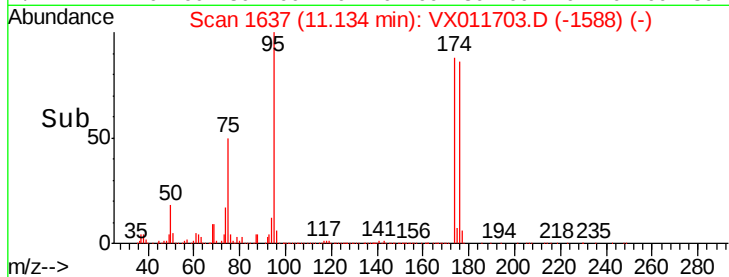
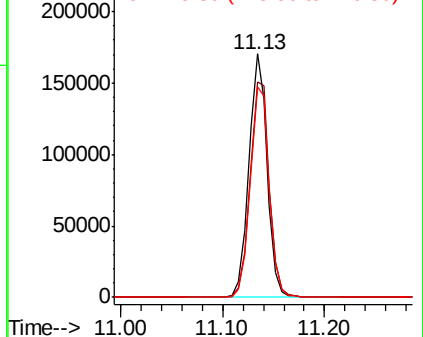
176 90.6 0.0 196.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

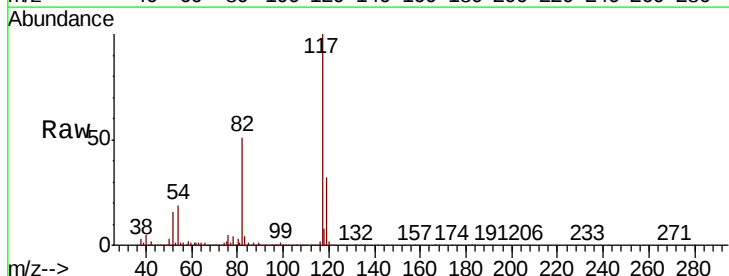
Tgt Ion: 117 Resp: 509138

Ion Ratio Lower Upper

117 100

82 51.1 42.0 63.0

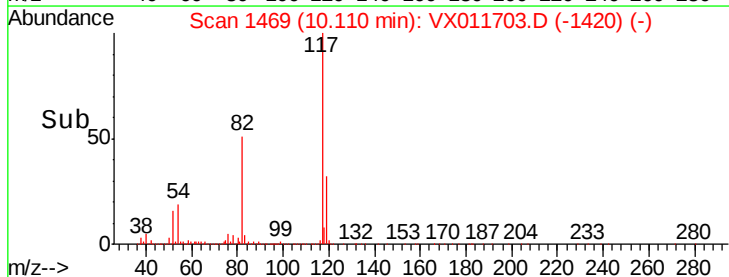
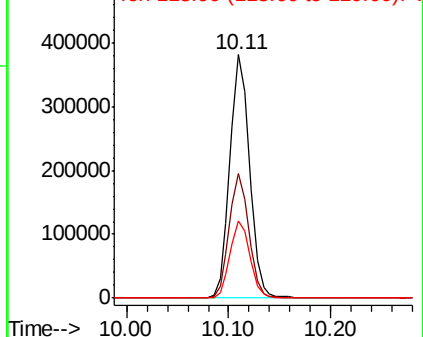
119 31.8 26.5 39.7

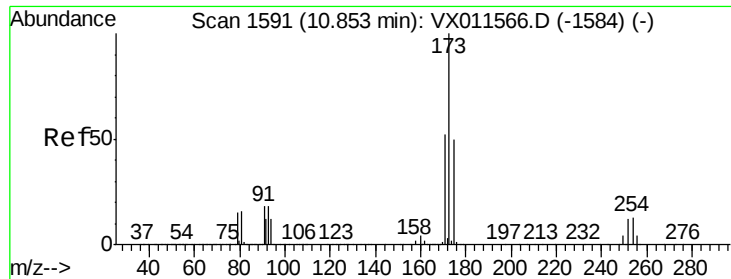


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 3.315 ug/l

RT: 10.84 min Scan# 1588

Delta R.T. -0.02 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampled :

T6-C-(2)

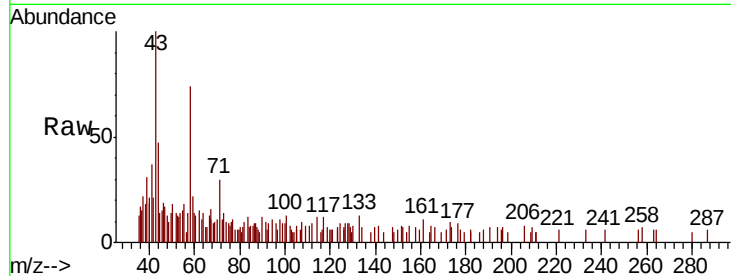
Tgt Ion:173 Resp: 98

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

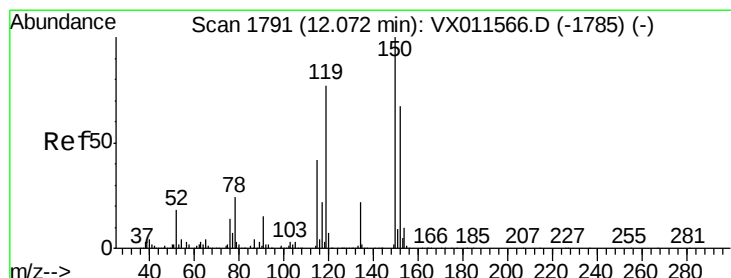
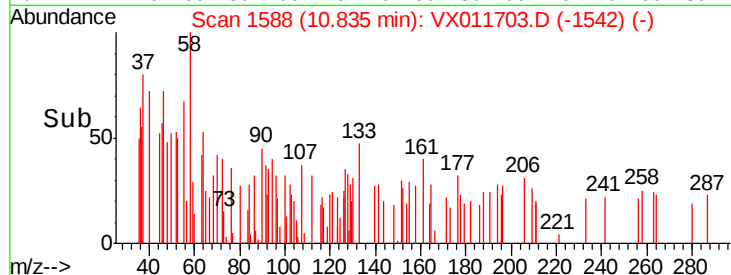
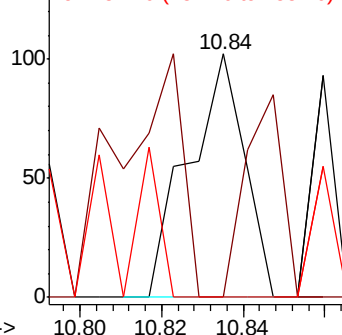
254 45.9 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

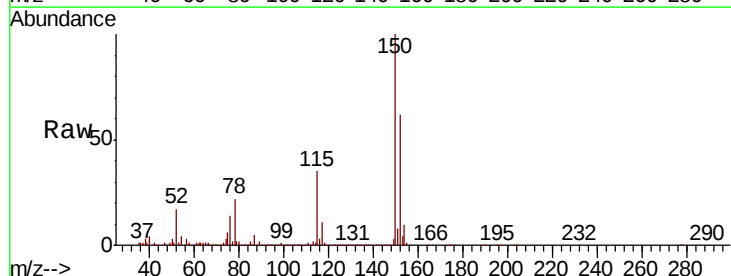
Tgt Ion:152 Resp: 237454

Ion Ratio Lower Upper

152 100

115 54.1 37.3 111.9

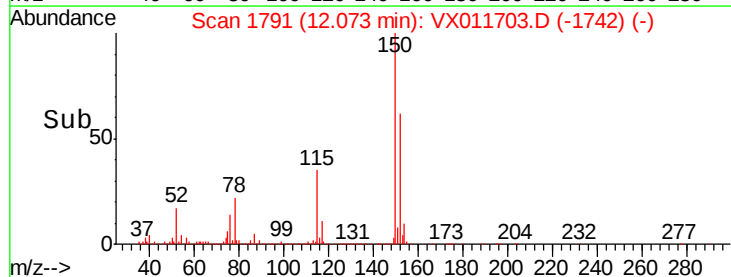
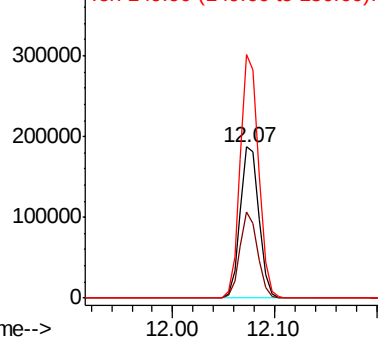
150 158.4 0.0 346.2

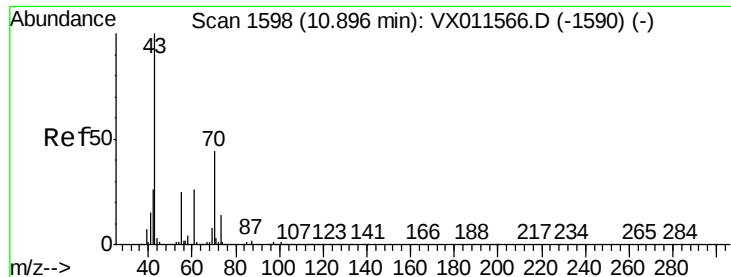


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.408 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

T6-C-(2)

Tgt Ion: 43 Resp: 2672

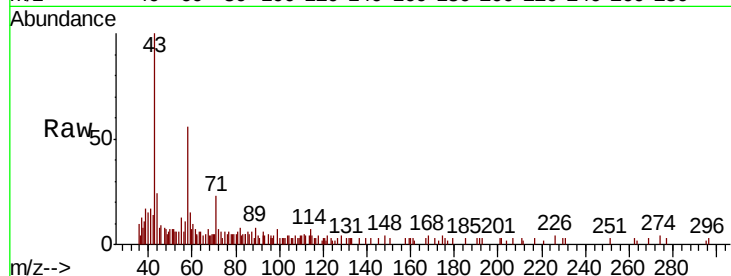
Ion Ratio Lower Upper

43 100

70 8.8 34.7 52.1#

55 12.8 19.6 29.4#

61 13.1 19.9 29.9#

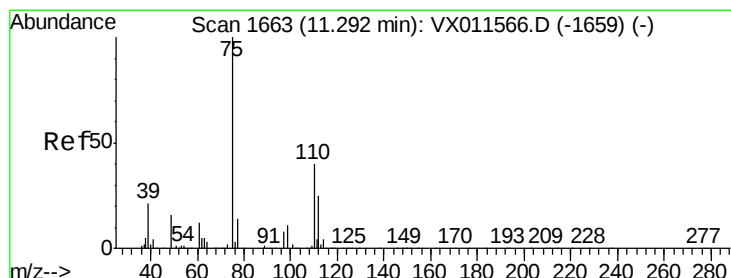
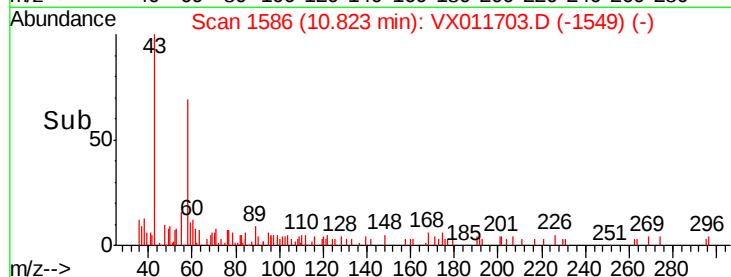
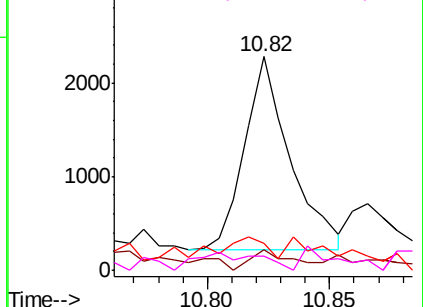


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.104 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011703.D

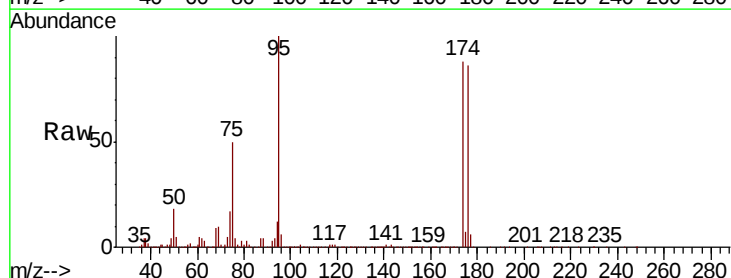
Acq: 20 Aug 2019 23:14

Tgt Ion: 75 Resp: 104028

Ion Ratio Lower Upper

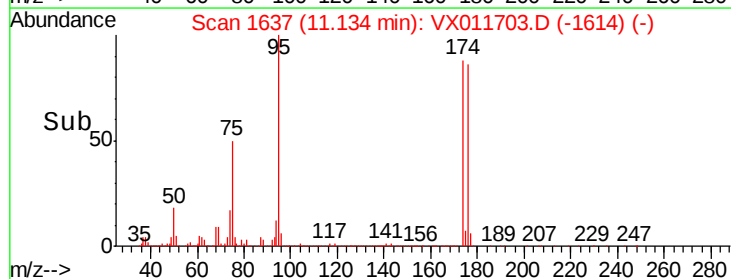
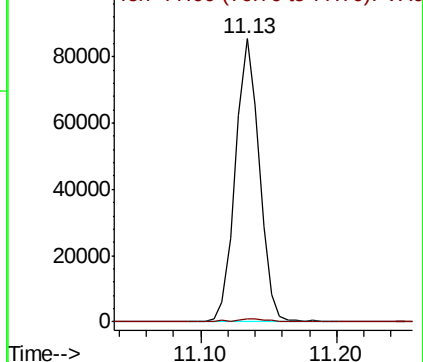
75 100

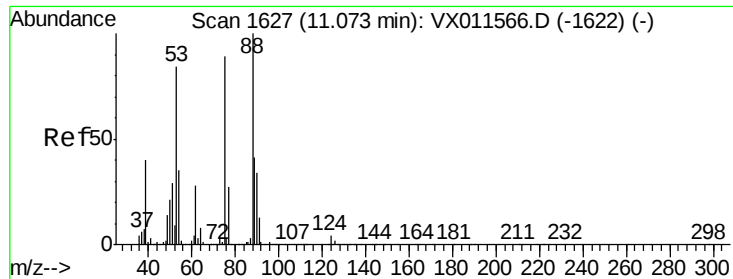
77 1.9 20.9 62.8#



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: 61.457 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011703.D

Acq: 20 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

T6-C-(2)

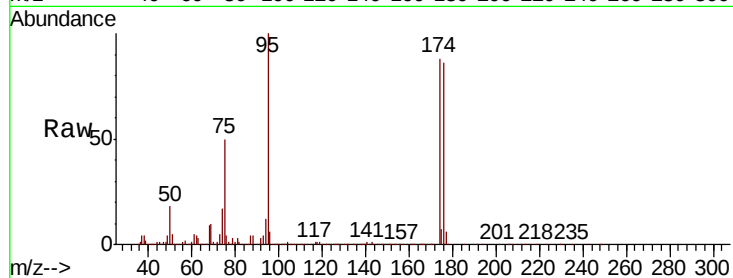
Tgt Ion: 75 Resp: 104028

Ion Ratio Lower Upper

75 100

53 0.3 77.4 116.0#

89 0.1 37.3 55.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

