

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092718\
 Data File : VX004796.D
 Acq On : 28 Sep 2018 01:57
 Operator : JC/MD
 Sample : J5049-03DL 200X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-97-SEP18DL

Quant Time: Sep 28 06:04:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	241284	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	385926	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	379944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	215376	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	184287	53.47	ug/l	0.00
Spiked Amount			Recovery	=	106.94%	
35) Dibromofluoromethane	5.50	113	155265	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	
50) Toluene-d8	8.71	98	561151	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
62) 4-Bromofluorobenzene	11.14	95	203826	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	

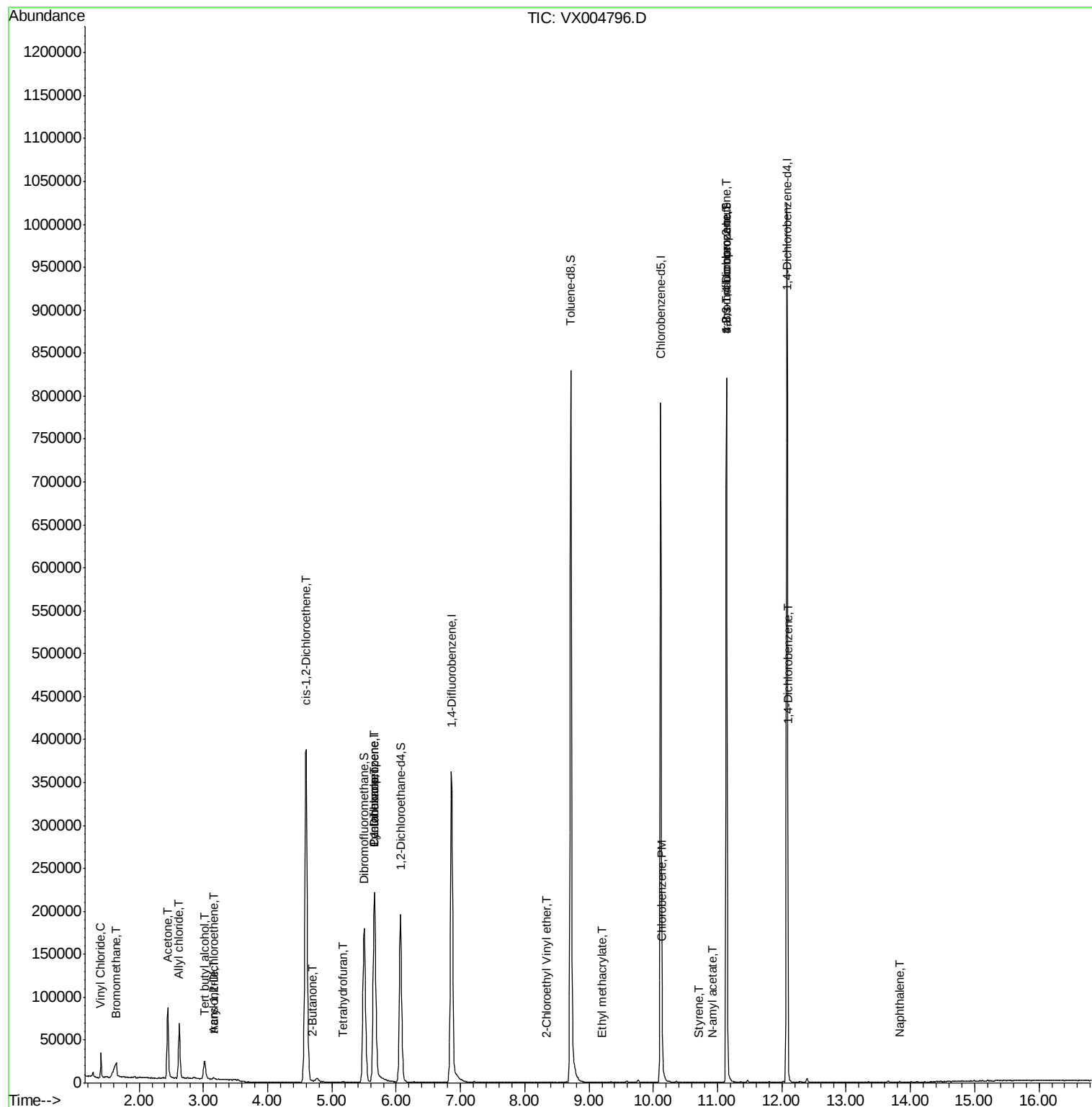
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	18203	4.863	ug/l	99
5) Bromomethane	1.64	94	840	0.378	ug/l	99
6) Chloroethane	1.62	64	4710	Below Cal	#	61
11) Tert butyl alcohol	3.02	59	13343	13.845	ug/l #	80
14) Allyl chloride	2.62	41	6356	1.114	ug/l #	60
15) Acrylonitrile	3.16	53	589	0.278	ug/l #	23
16) Acetone	2.45	43	87814	43.639	ug/l	96
20) Methylene Chloride	2.86	84	642	Below Cal	#	86
21) trans-1,2-Dichloroethene	3.16	96	616	0.215	ug/l	99
25) 2-Butanone	4.70	43	688	0.232	ug/l #	85
27) cis-1,2-Dichloroethene	4.60	96	250825	78.453	ug/l	94
29) Tetrahydrofuran	5.17	42	495	0.269	ug/l #	68
31) Cyclohexane	5.66	56	4640	1.058	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16626	3.726	ug/l #	49
56) Ethyl methacrylate	9.20	69	51	2.871	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.34	63	22	14.249	ug/l #	45
65) Chlorobenzene	10.14	112	6255	0.642	ug/l	90
70) Styrene	10.72	104	79	2.148	ug/l #	78
74) N-amyl acetate	10.91	43	91	1.760	ug/l #	50
76) 1,2,3-Trichloropropane	11.14	75	102274	21.186	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	209	Below Cal	#	57
81) trans-1,4-Dichloro-2-buten	11.14	75	102274	57.474	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	249	Below Cal		65
88) 1,4-Dichlorobenzene	12.10	146	1923	0.253	ug/l #	1
95) Naphthalene	13.83	128	426	0.743	ug/l #	87

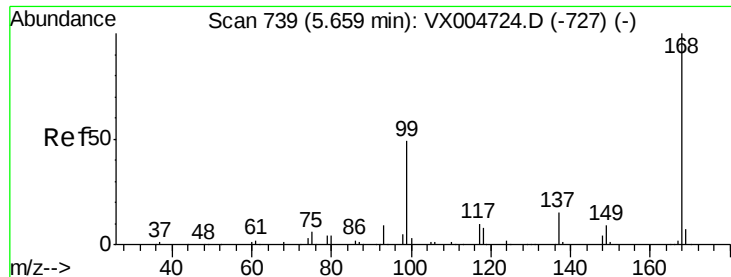
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 26 14:17:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

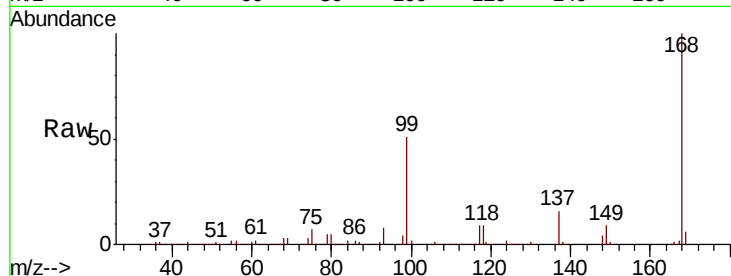
MW-97-SEP18DL

Tot Ion:168 Resp: 241284

Ion Ratio Lower Upper

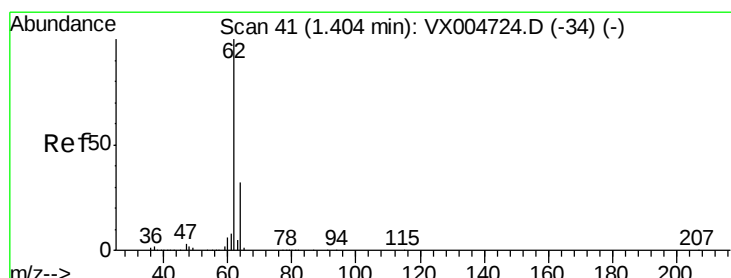
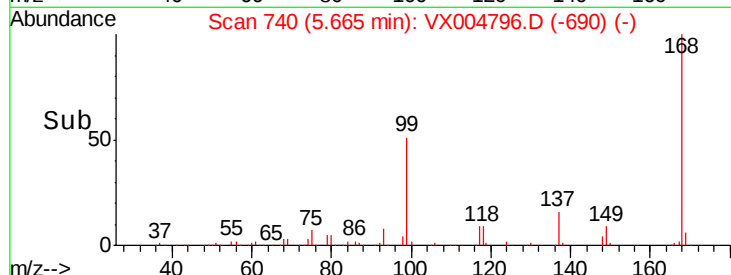
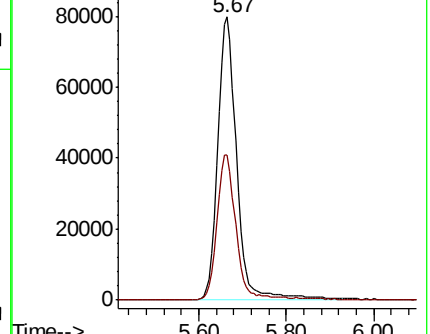
168 100

99 51.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 4.863 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.00 min

Lab File: VX004796.D

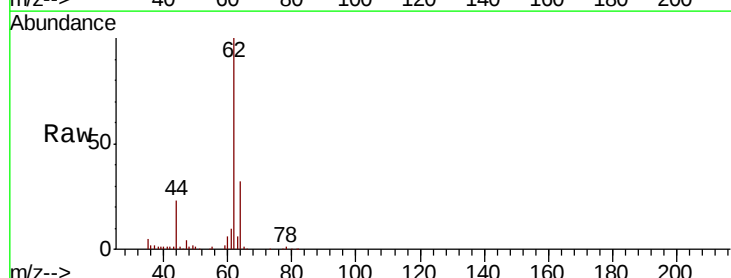
Acq: 28 Sep 2018 01:57

Tgt Ion: 62 Resp: 18203

Ion Ratio Lower Upper

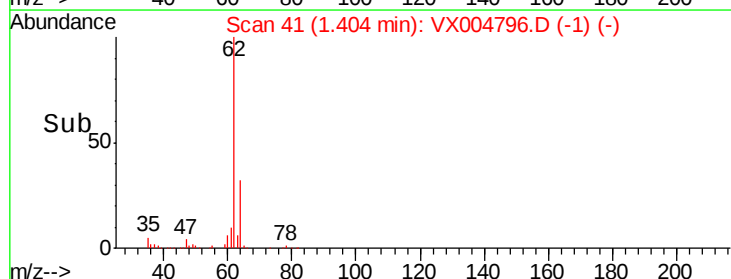
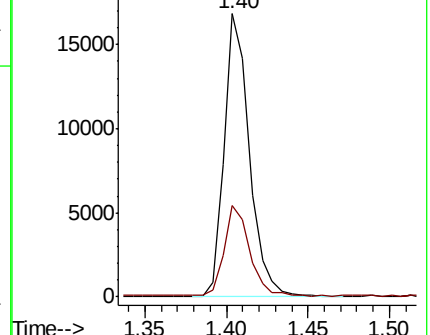
62 100

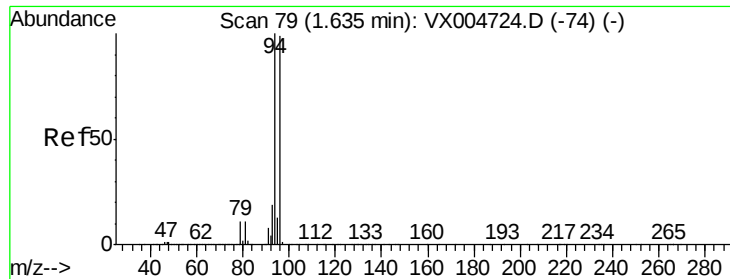
64 31.8 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.378 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

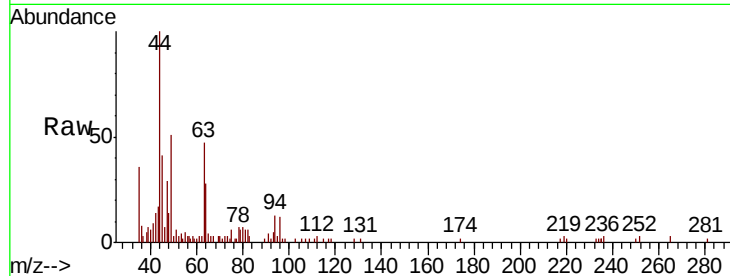
MW-97-SEP18DL

Tot Ion: 94 Resp: 840

Ion Ratio Lower Upper

94 100

96 93.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

300

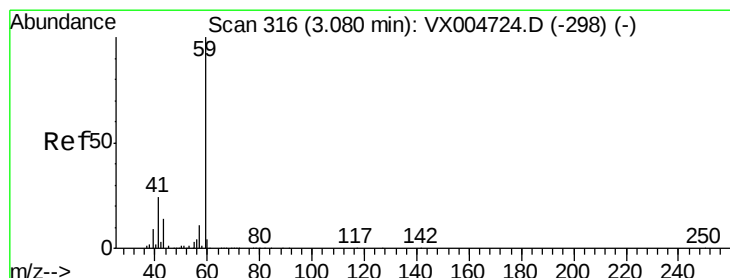
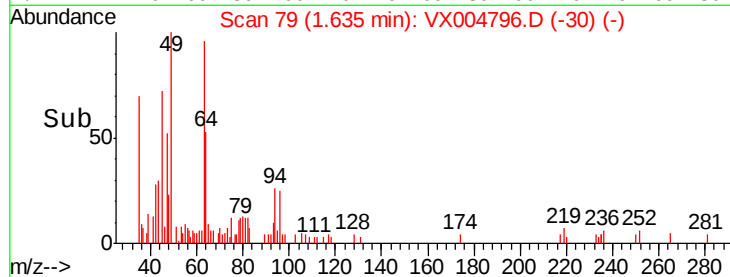
200

100

0

1.60 1.65 1.70

Time-->



#11

Tert butyl alcohol

Concen: 13.845 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX004796.D

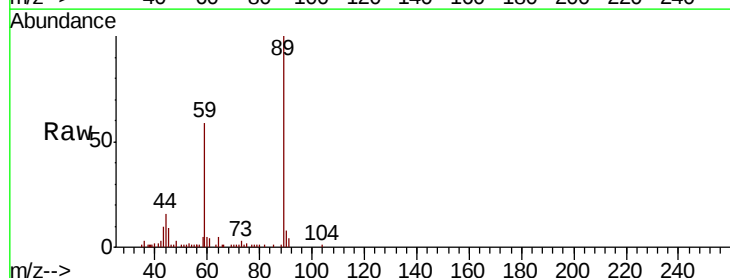
Acq: 28 Sep 2018 01:57

Tgt Ion: 59 Resp: 13343

Ion Ratio Lower Upper

59 100

57 2.9 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

6000

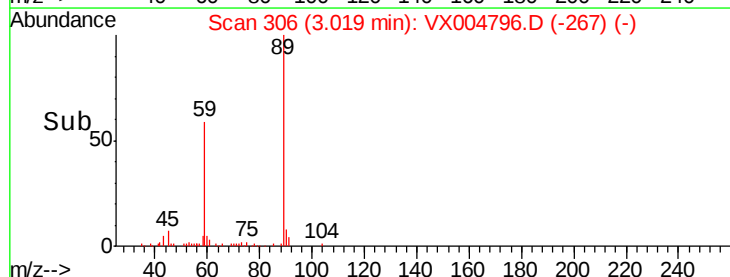
4000

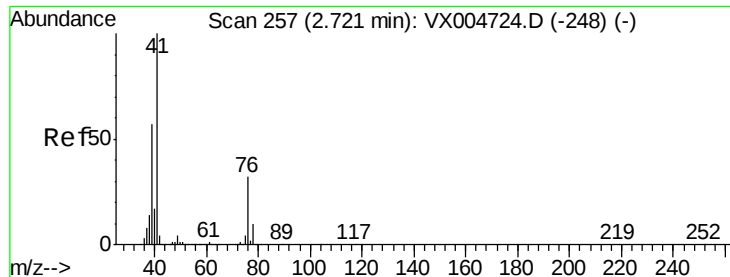
2000

0

2.95 3.00 3.05 3.10

Time-->

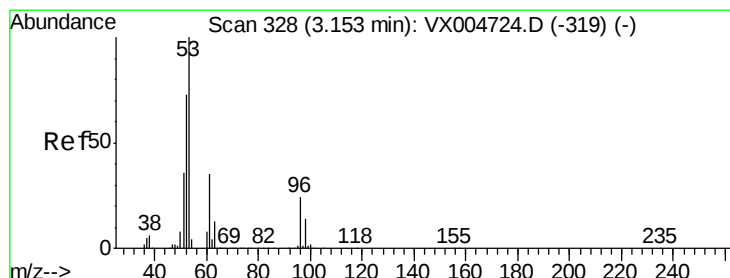
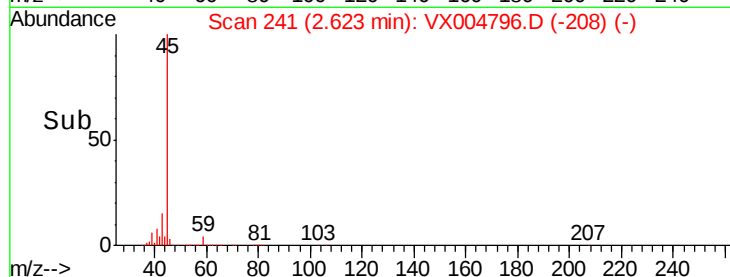
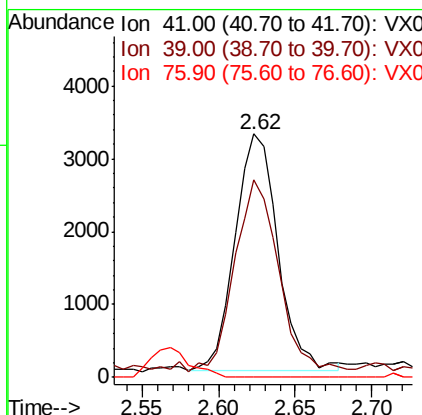
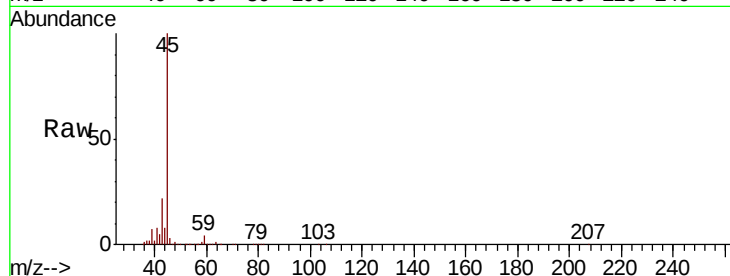




#14
Allvl chloride
Concen: 1.114 ug/l
RT: 2.62 min Scan# 241
Delta R.T. -0.10 min
Lab File: VX004796.D
Acq: 28 Sep 2018 01:57

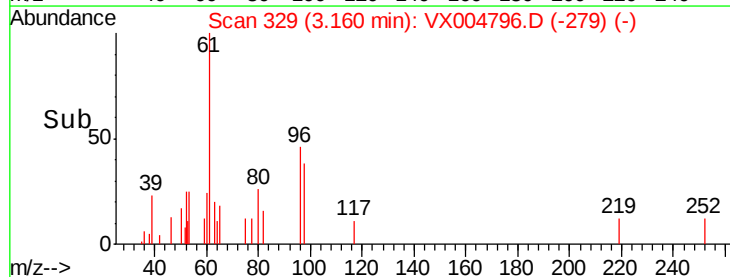
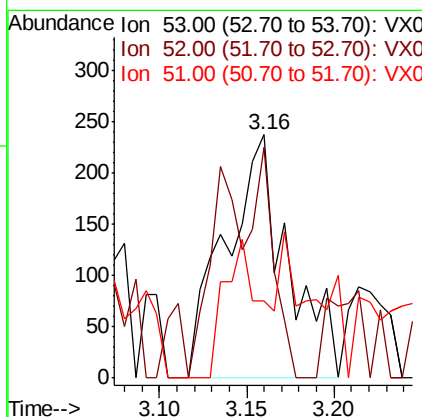
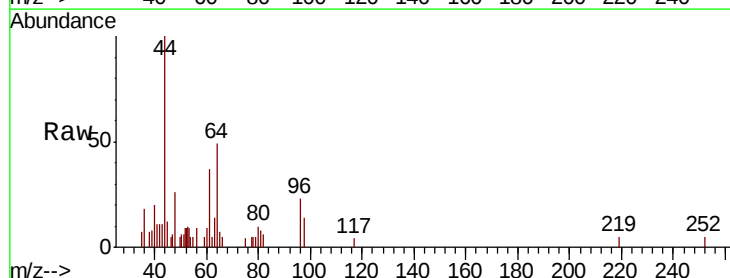
Instrument :
MSVOA_X
ClientSampleId :
MW-97-SEP18DL

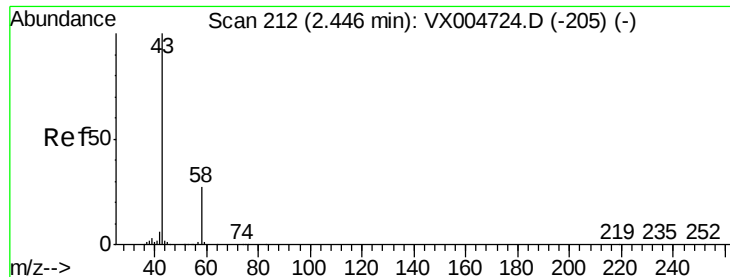
Tot Ion: 41 Resp: 6356
Ion Ratio Lower Upper
41 100
39 83.4 48.9 73.3#
76 0.0 26.7 40.1#



#15
Acrylonitrile
Concen: 0.278 ug/l
RT: 3.16 min Scan# 329
Delta R.T. 0.01 min
Lab File: VX004796.D
Acq: 28 Sep 2018 01:57

Tgt Ion: 53 Resp: 589
Ion Ratio Lower Upper
53 100
52 0.0 65.2 97.8#
51 10.2 28.2 42.2#





#16

Acetone

Concen: 43.639 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

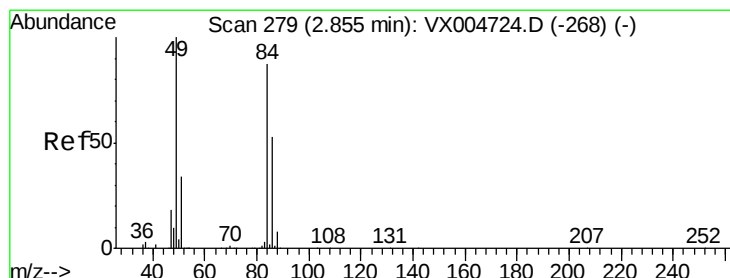
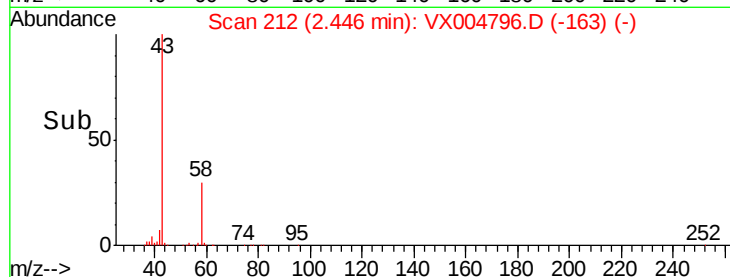
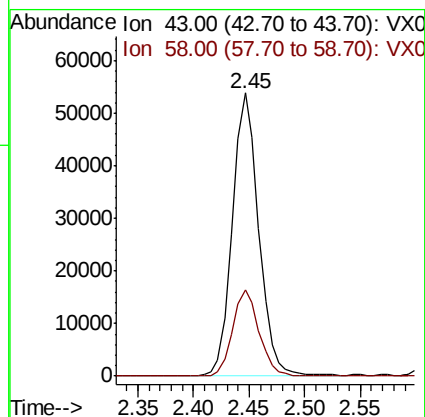
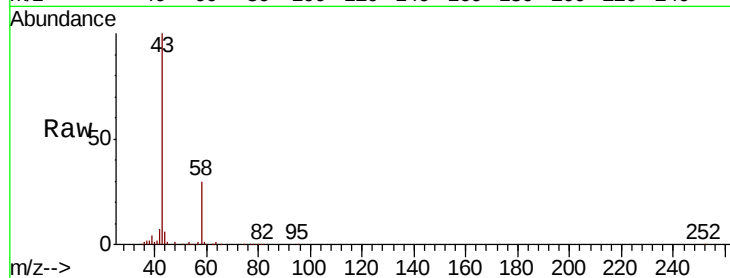
MW-97-SEP18DL

Tot Ion: 43 Resp: 87814

Ion Ratio Lower Upper

43 100

58 30.4 26.2 39.4



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Tgt Ion: 84 Resp: 642

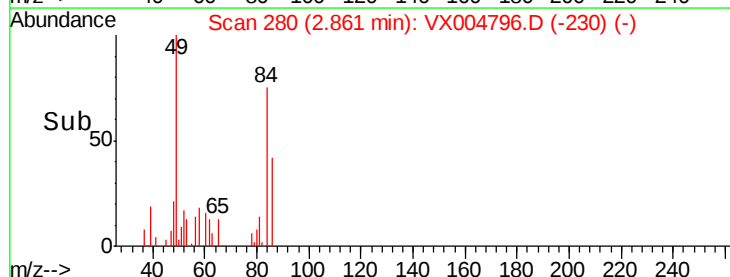
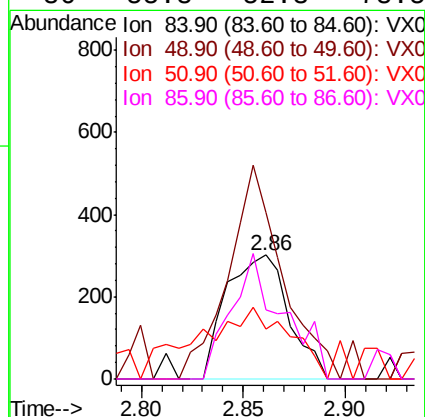
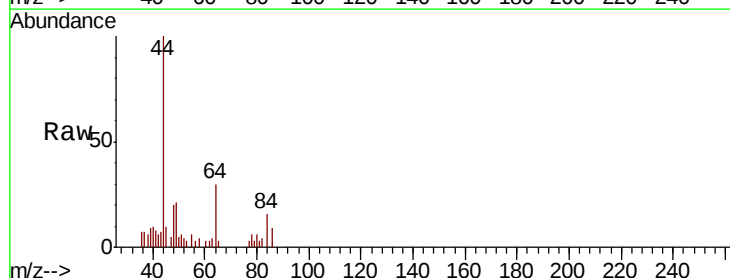
Ion Ratio Lower Upper

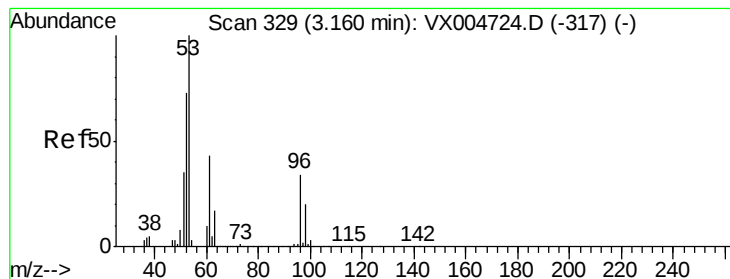
84 100

49 134.2 101.2 151.8

51 12.6 29.5 44.3#

86 55.8 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 0.215 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.00 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

MW-97-SEP18DL

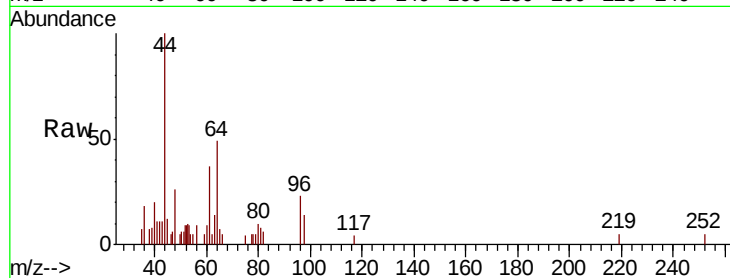
Tot Ion: 96 Resp: 616

Ion Ratio Lower Upper

96 100

61 142.0 113.8 170.6

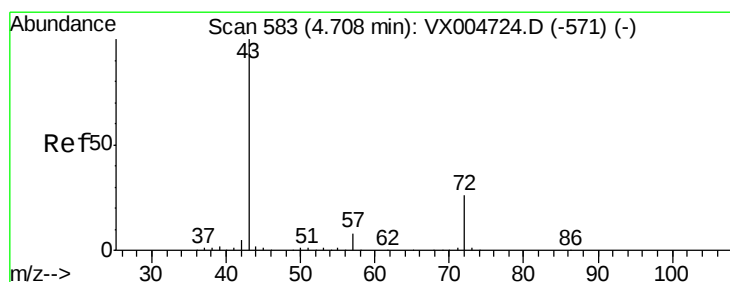
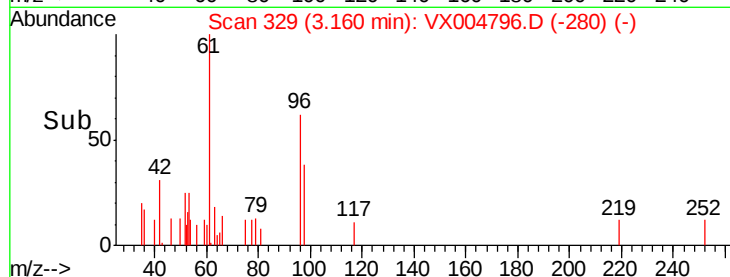
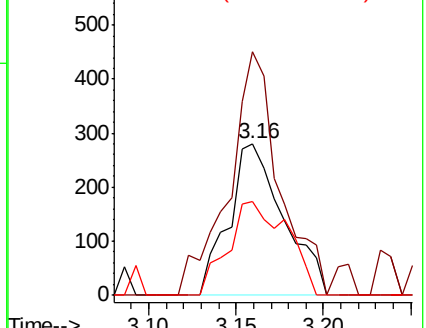
98 61.6 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.232 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX004796.D

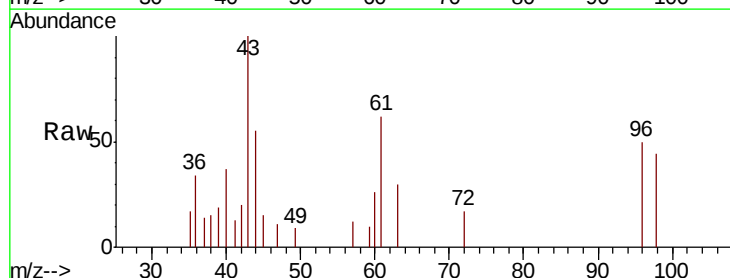
Acq: 28 Sep 2018 01:57

Tgt Ion: 43 Resp: 688

Ion Ratio Lower Upper

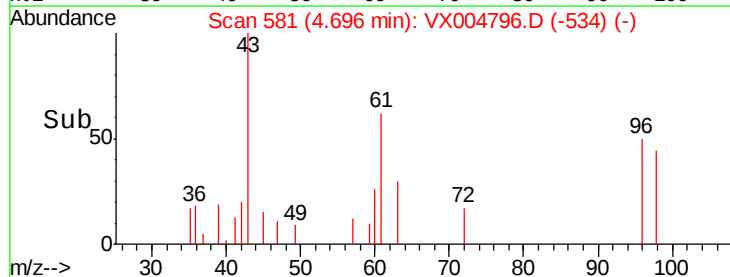
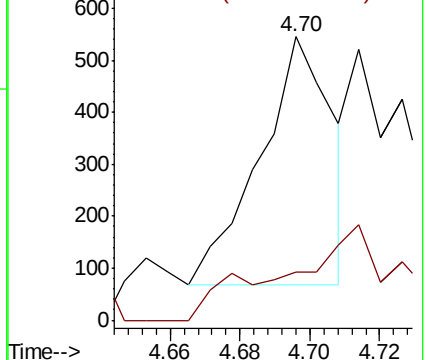
43 100

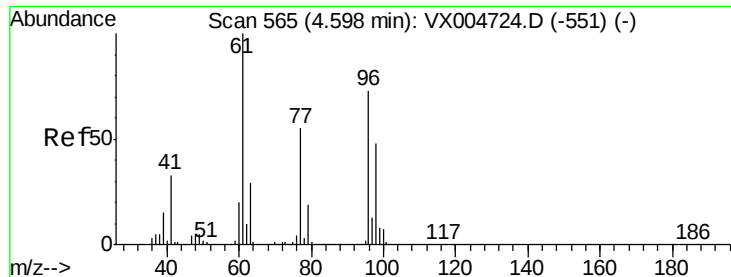
72 19.5 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



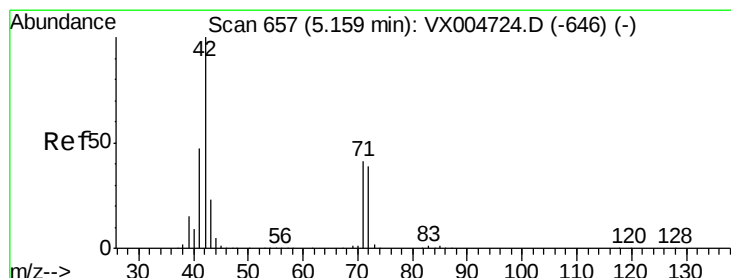
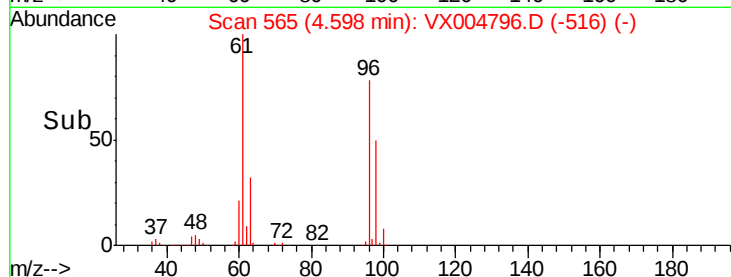
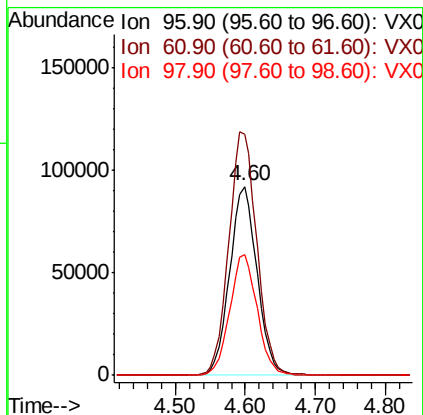
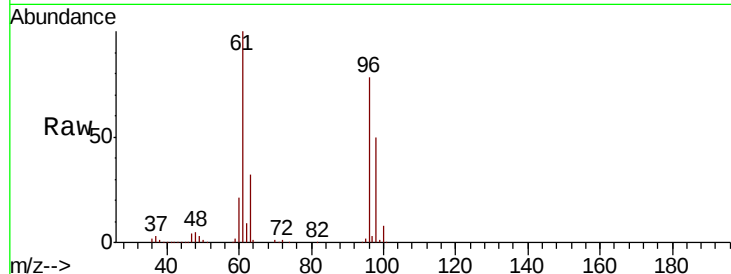


#27

cis-1,2-Dichloroethene
 Concen: 78.453 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX004796.D
 Acq: 28 Sep 2018 01:57

Instrument :
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 ClientSampleId :
 MW-97-SEP18DL

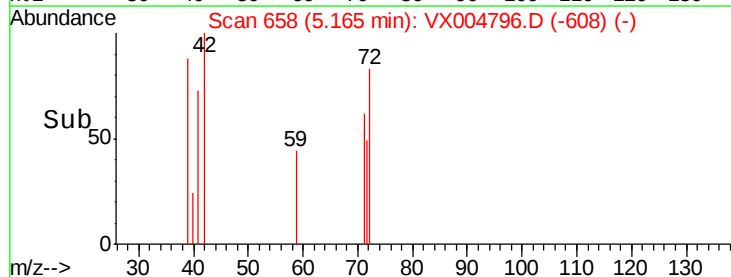
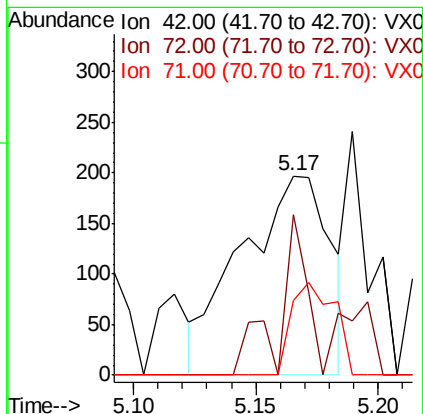
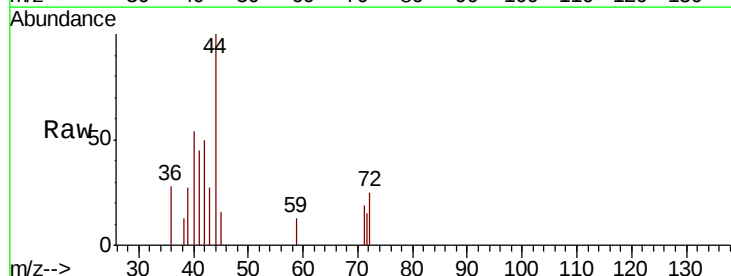
Tot Ion	Ratio	Lower	Upper
96	100		
61	131.7	0.0	282.6
98	63.9	0.0	130.2

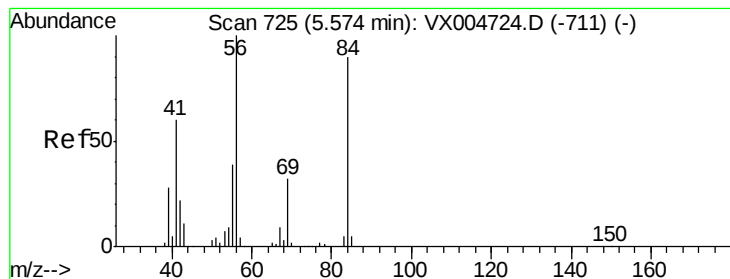


#29

Tetrahydrofuran
 Concen: 0.269 ug/l
 RT: 5.17 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VX004796.D
 Acq: 28 Sep 2018 01:57

Tgt Ion	Ratio	Lower	Upper
42	100		
72	25.7	37.4	56.0#
71	22.8	34.5	51.7#





#31

Cyclohexane

Concen: 1.058 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

MW-97-SEP18DL

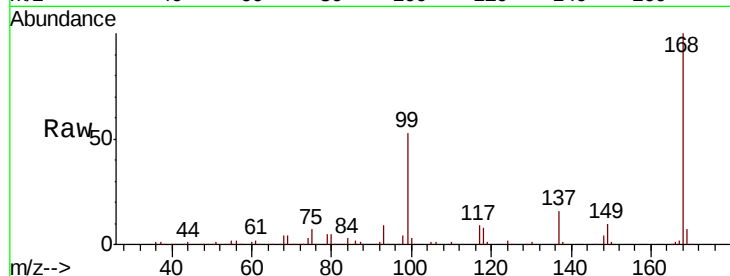
Tot Ion: 56 Resp: 4640

Ion Ratio Lower Upper

56 100

69 170.6 25.4 38.2#

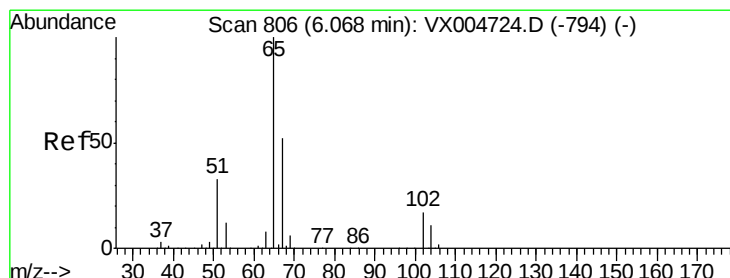
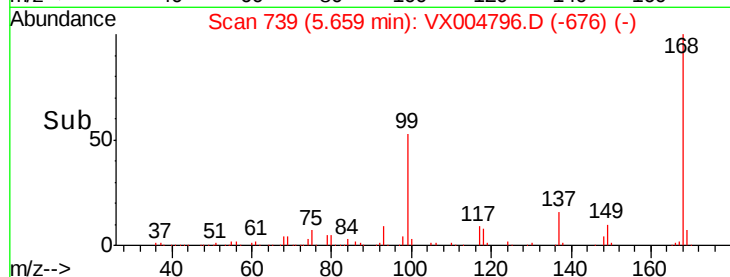
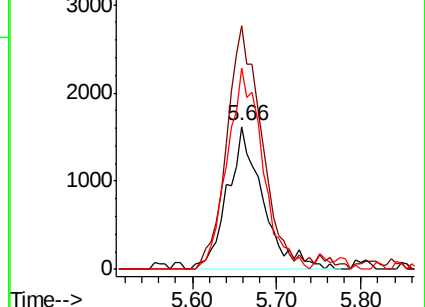
84 141.4 71.4 107.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.467 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004796.D

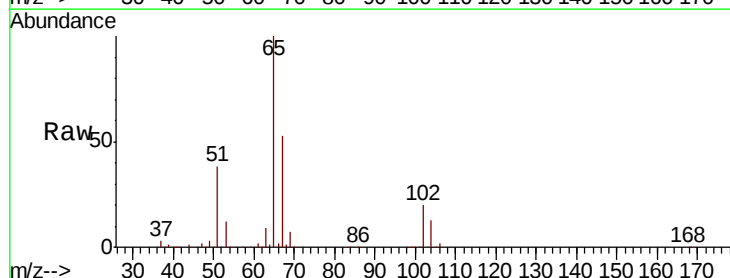
Acq: 28 Sep 2018 01:57

Tgt Ion: 65 Resp: 184287

Ion Ratio Lower Upper

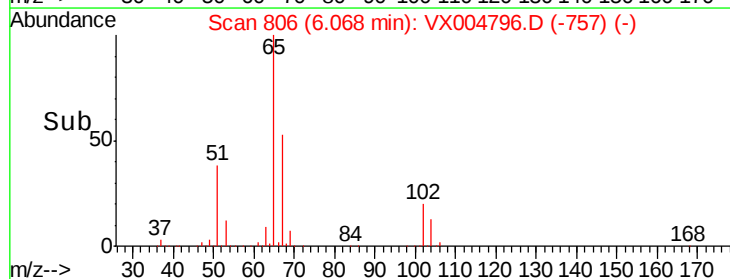
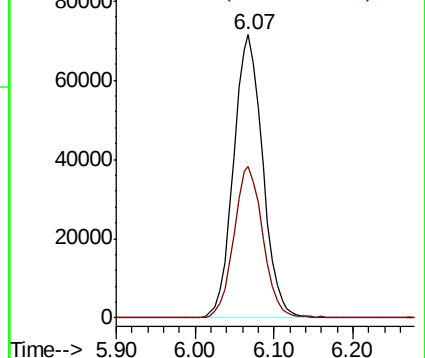
65 100

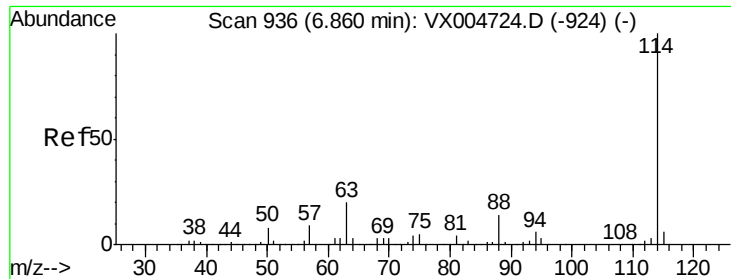
67 53.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

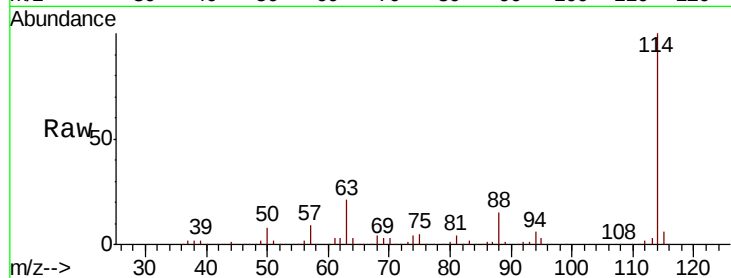




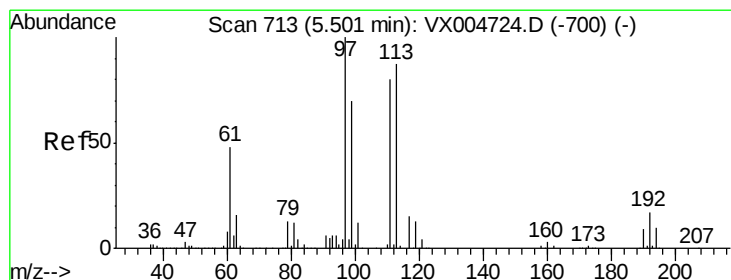
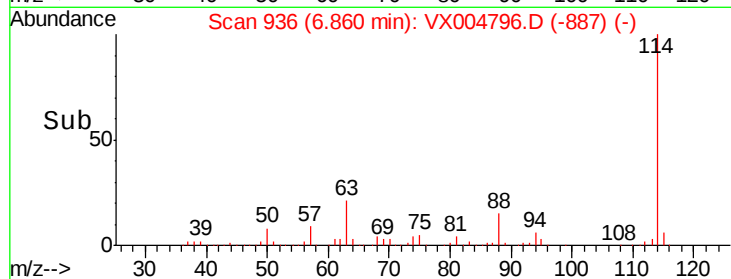
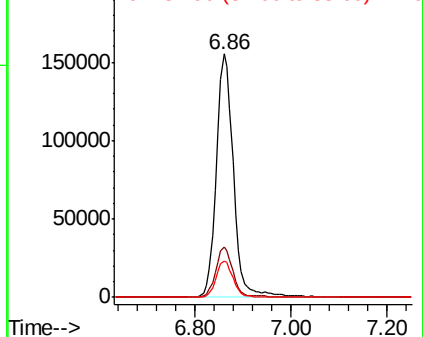
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004796.D
 Acq: 28 Sep 2018 01:57

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-97-SEP18DL

Tot Ion:114 Resp: 385926
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 39.0
 88 15.1 0.0 30.4

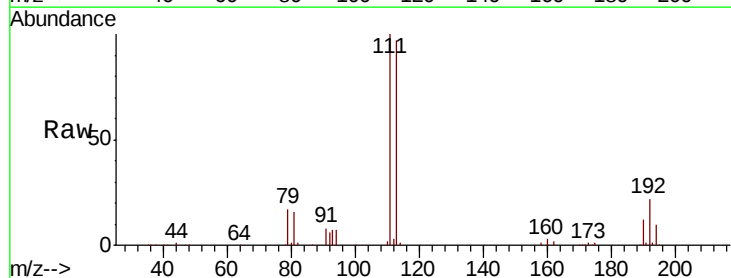


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

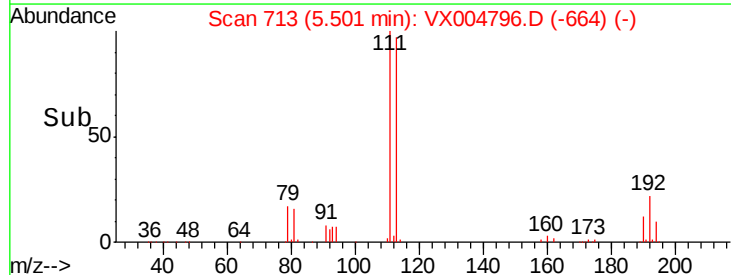
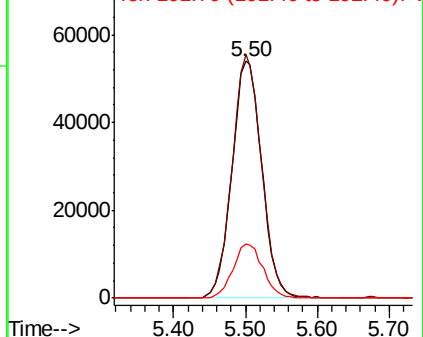


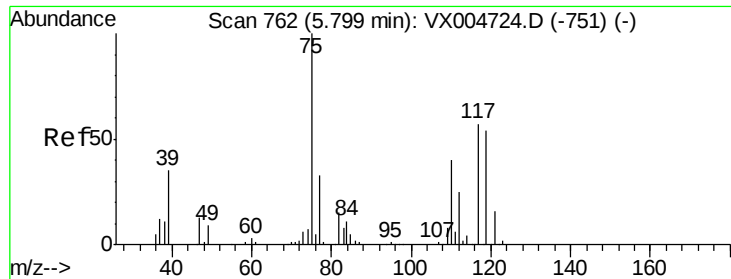
#35
 Dibromofluoromethane
 Concen: 47.470 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004796.D
 Acq: 28 Sep 2018 01:57

Tgt Ion:113 Resp: 155265
 Ion Ratio Lower Upper
 113 100
 111 101.0 82.4 123.6
 192 22.9 19.4 29.2



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: 3.726 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

MW-97-SEP18DL

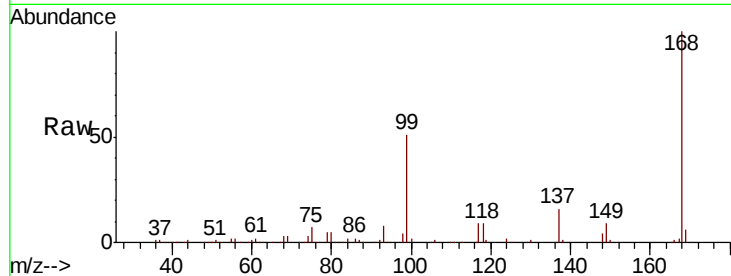
Tot Ion: 75 Resp: 16626

Ion Ratio Lower Upper

75 100

110 8.3 18.0 54.0#

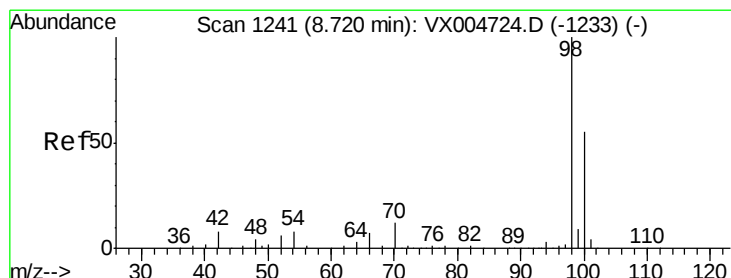
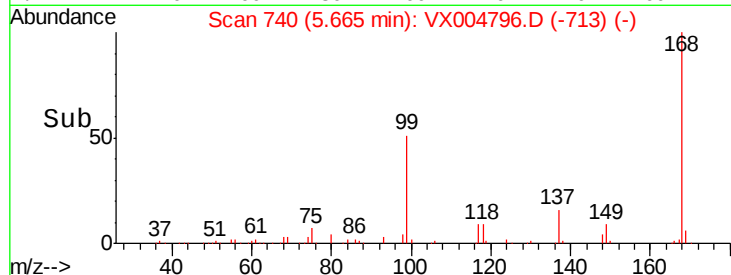
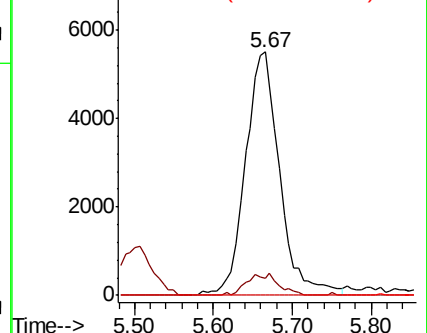
77 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 51.606 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004796.D

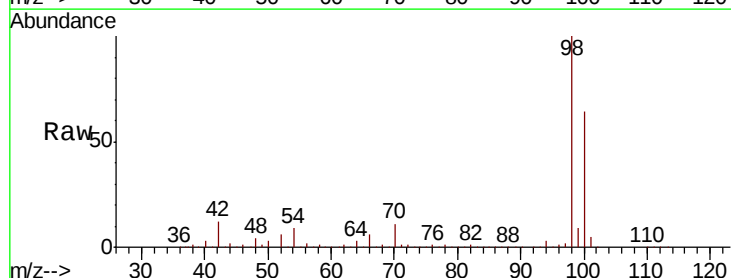
Acq: 28 Sep 2018 01:57

Tgt Ion: 98 Resp: 561151

Ion Ratio Lower Upper

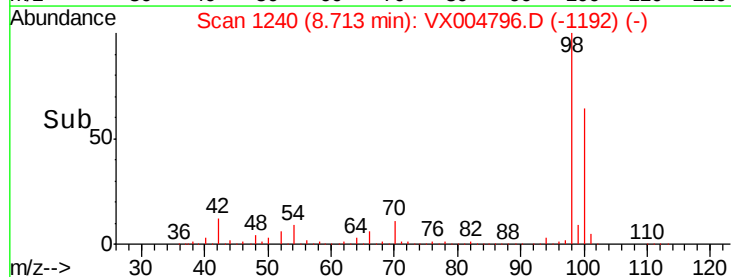
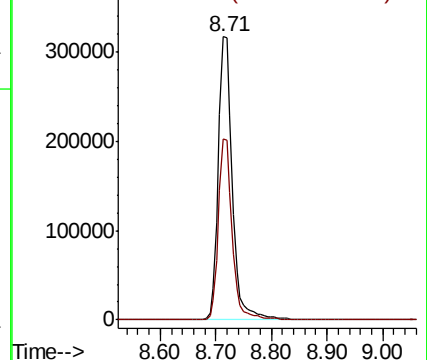
98 100

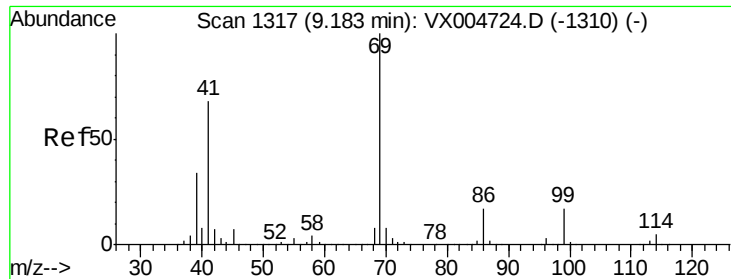
100 63.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 2.871 ug/l

RT: 9.20 min Scan# 1320

Delta R.T. 0.02 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

MW-97-SEP18DL

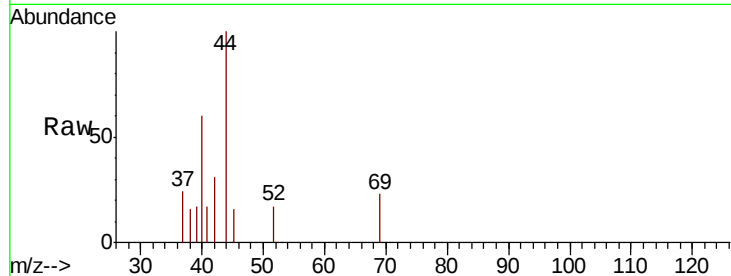
Tot Ion: 69 Resp: 51

Ion Ratio Lower Upper

69 100

41 203.9 51.0 76.4#

39 0.0 26.1 39.1#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

200

150

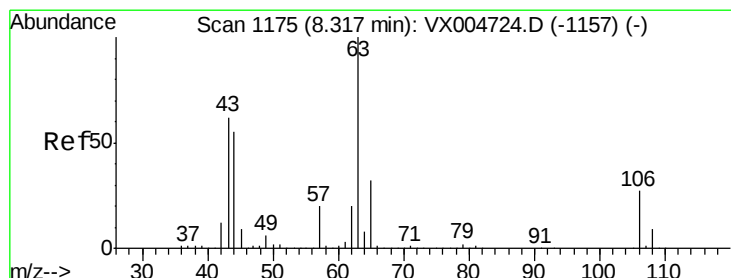
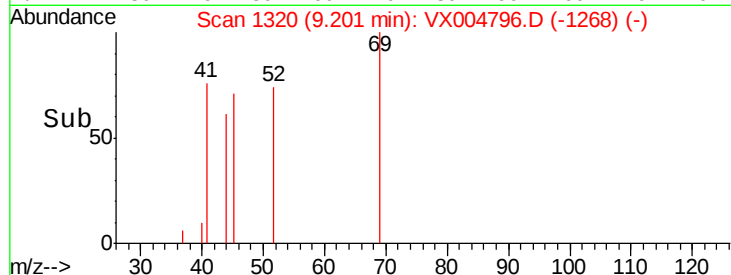
100

50

0

9.18 9.20 9.22

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 14.249 ug/l

RT: 8.34 min Scan# 1179

Delta R.T. 0.02 min

Lab File: VX004796.D

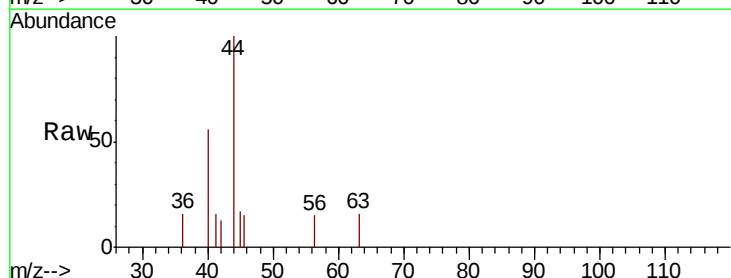
Acq: 28 Sep 2018 01:57

Tgt Ion: 63 Resp: 22

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

60

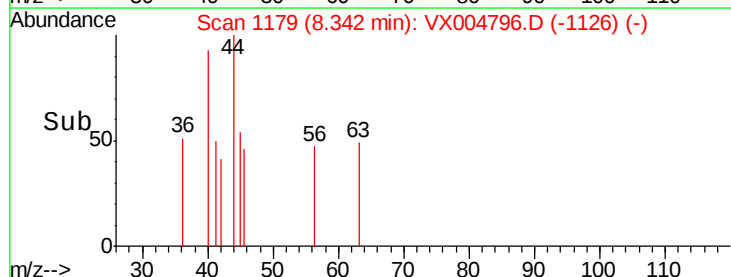
40

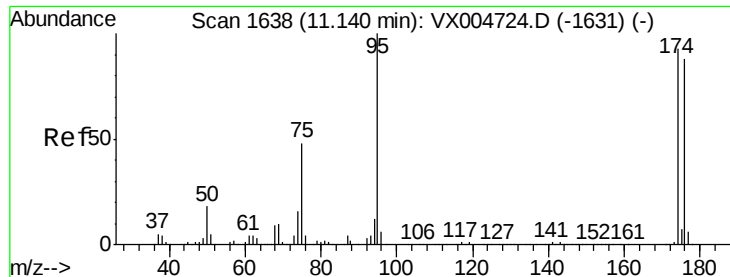
20

0

8.32 8.33 8.34 8.35 8.36

Time-->

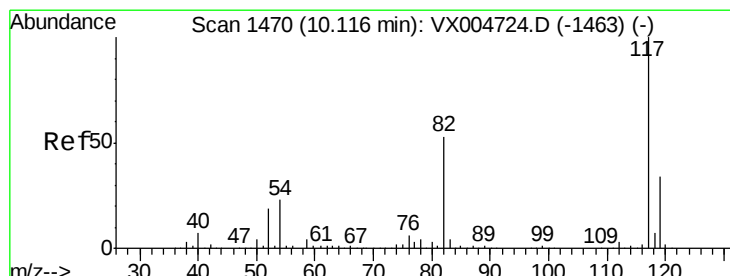
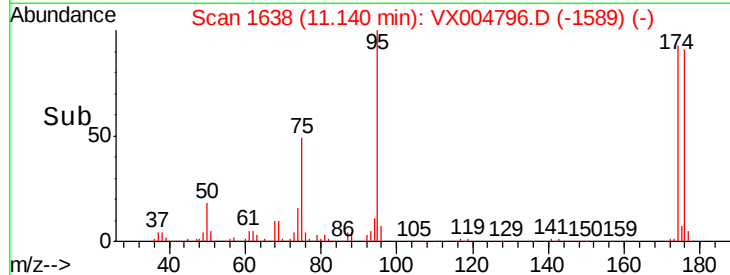
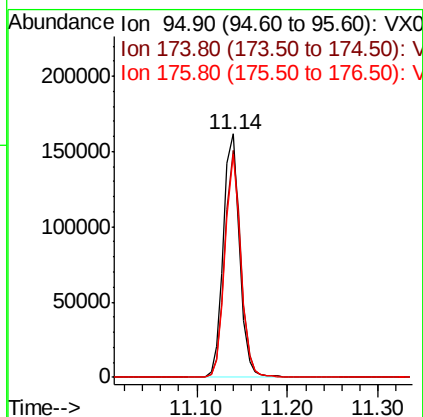
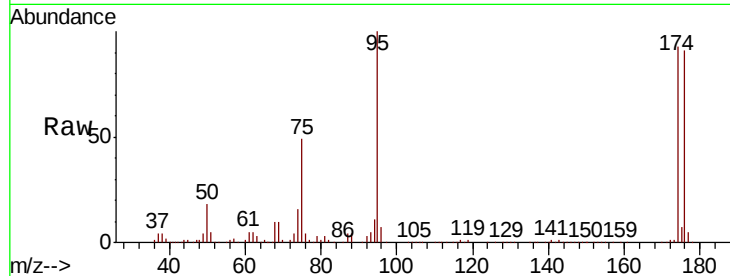




#62
4-Bromofluorobenzene
Concen: 52.032 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004796.D
Acq: 28 Sep 2018 01:57

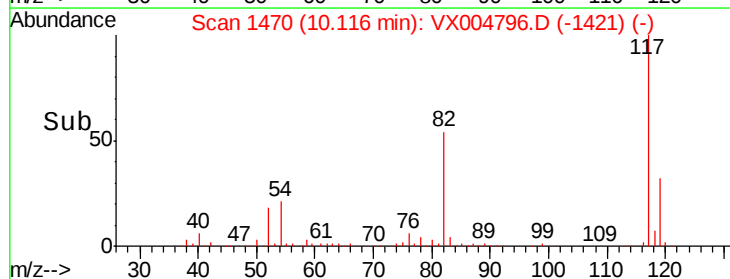
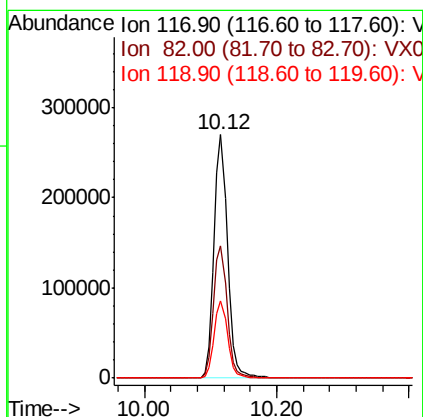
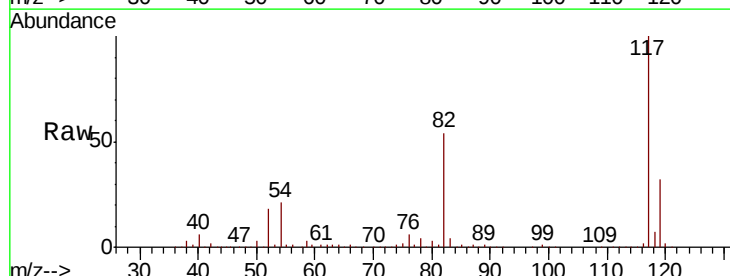
Instrument :
MSVOA_X
ClientSampleId :
MW-97-SEP18DL

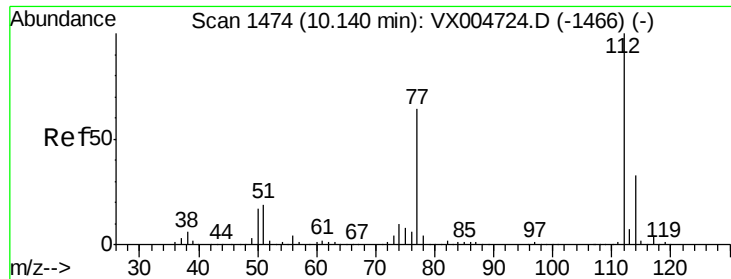
Tot Ion: 95 Resp: 203826
Ion Ratio Lower Upper
95 100
174 92.2 0.0 185.2
176 88.6 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004796.D
Acq: 28 Sep 2018 01:57

Tgt Ion: 117 Resp: 379944
Ion Ratio Lower Upper
117 100
82 54.4 47.8 71.6
119 31.6 29.3 43.9

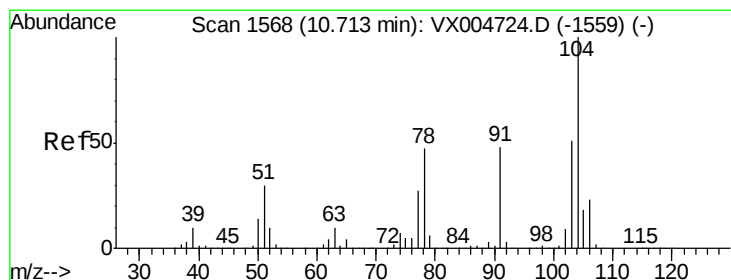
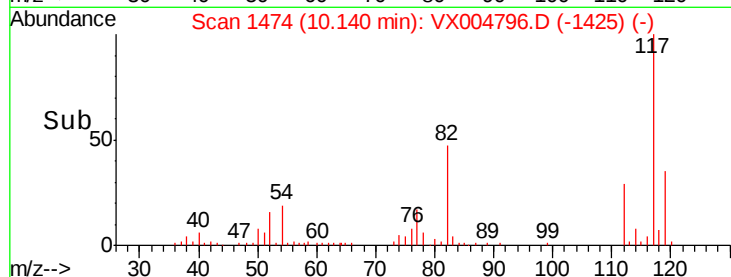
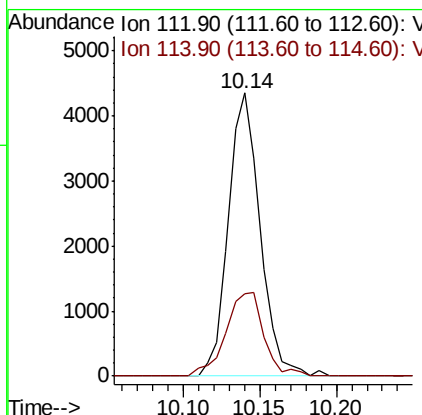
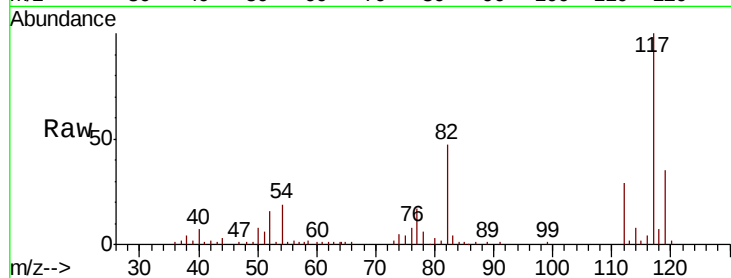




#65
Chlorobenzene
Concen: 0.642 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX004796.D
Acq: 28 Sep 2018 01:57

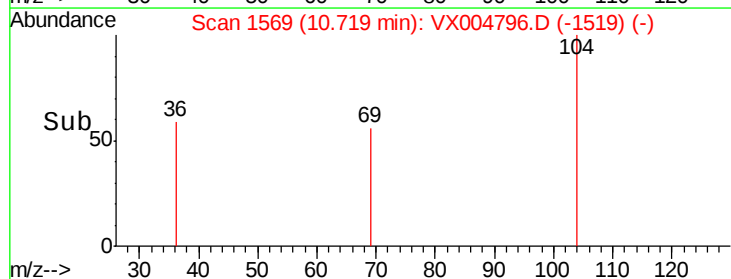
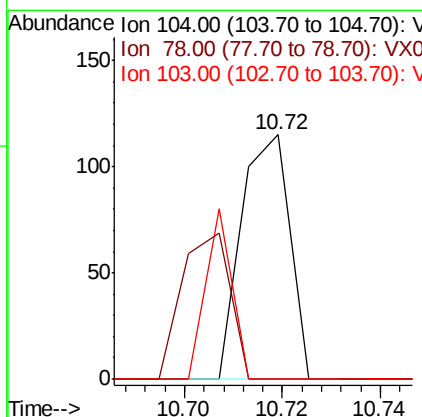
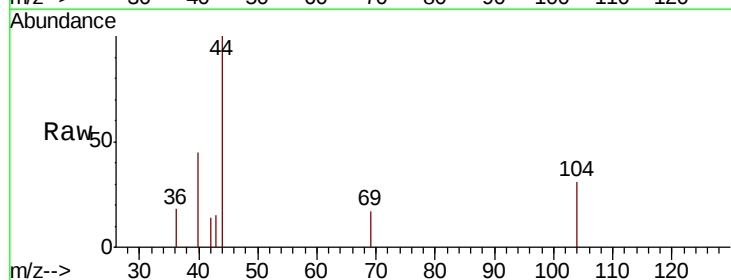
Instrument :
MSVOA_X
ClientSampleId :
MW-97-SEP18DL

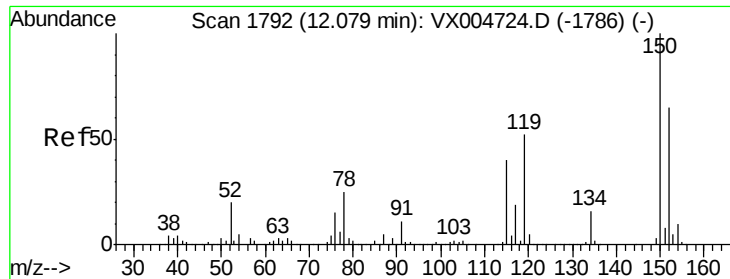
Tot Ion:112 Resp: 6255
Ion Ratio Lower Upper
112 100
114 29.1 27.8 41.8



#70
Styrene
Concen: 2.148 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX004796.D
Acq: 28 Sep 2018 01:57

Tgt Ion:104 Resp: 79
Ion Ratio Lower Upper
104 100
78 59.5 37.4 56.0#
103 36.7 43.8 65.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

MW-97-SEP18DL

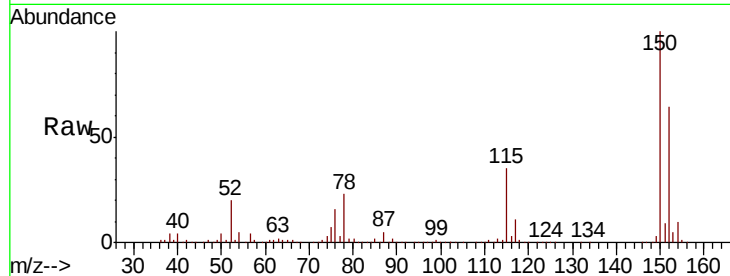
Tot Ion:152 Resp: 215376

Ion Ratio Lower Upper

152 100

115 55.5 39.0 117.0

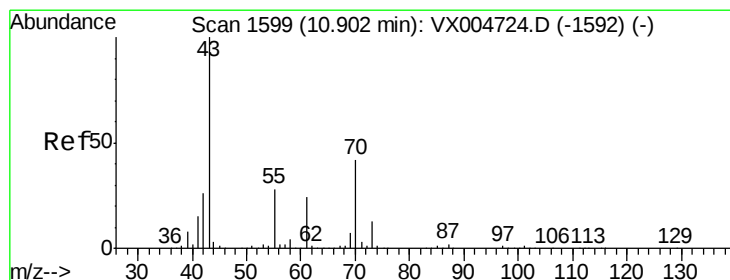
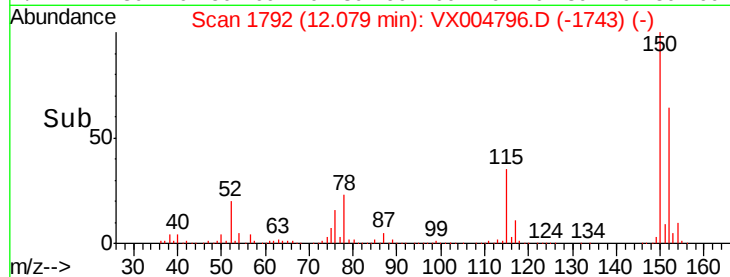
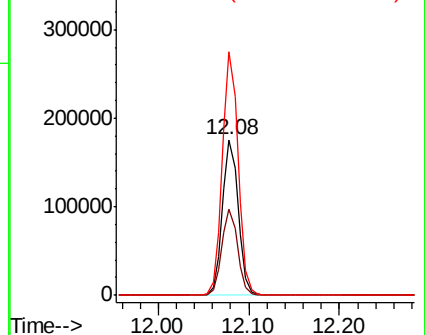
150 155.9 0.0 351.0



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: 1.760 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Tgt Ion: 43 Resp: 91

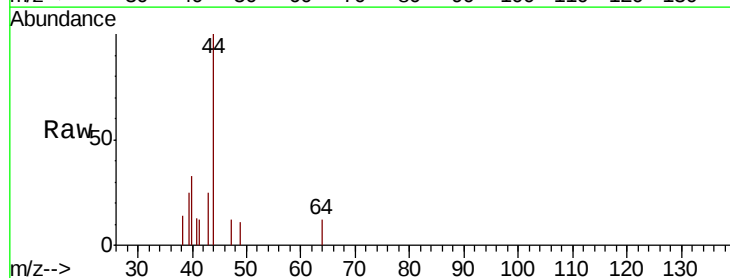
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 35.2 21.8 32.8#

61 0.0 20.6 30.8#

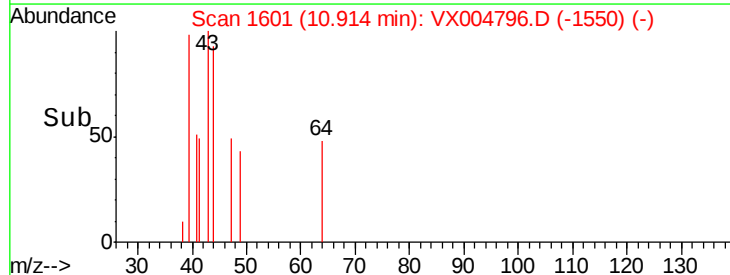
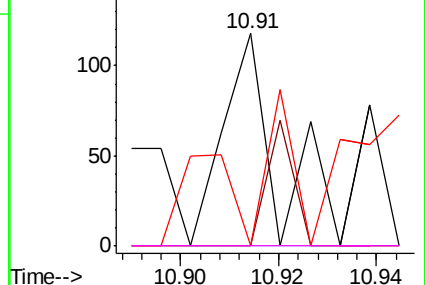


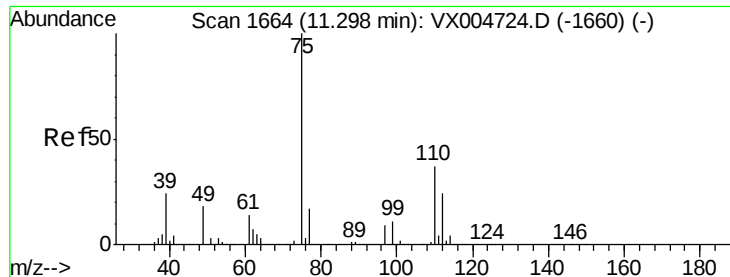
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.186 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

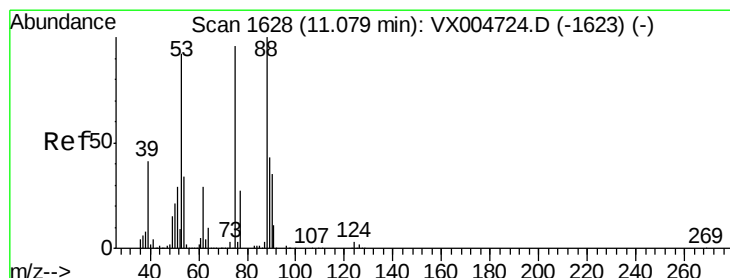
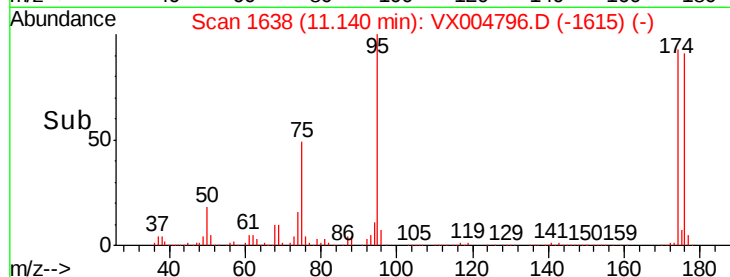
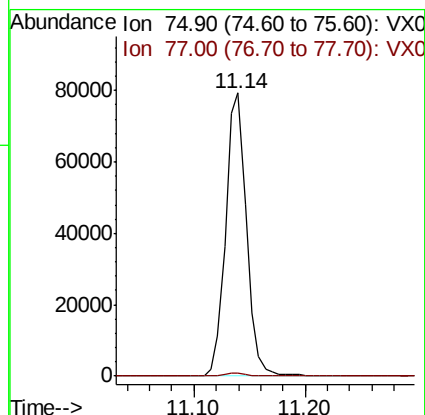
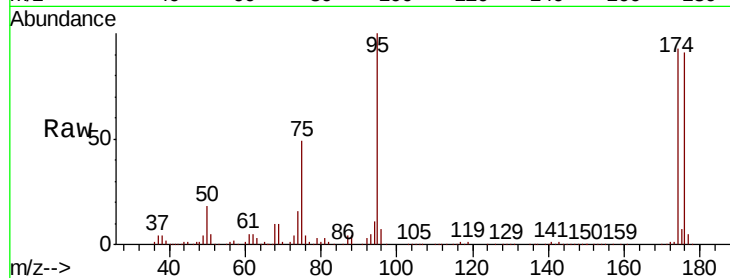
MW-97-SEP18DL

Tot Ion: 75 Resp: 102274

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.474 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

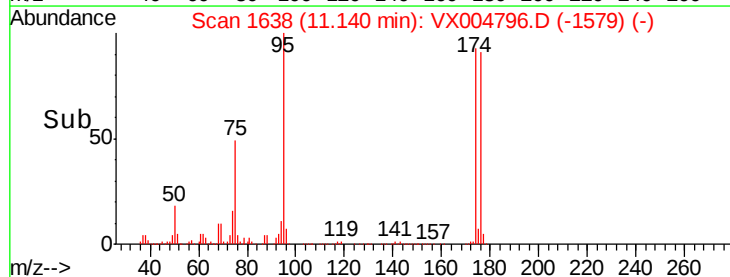
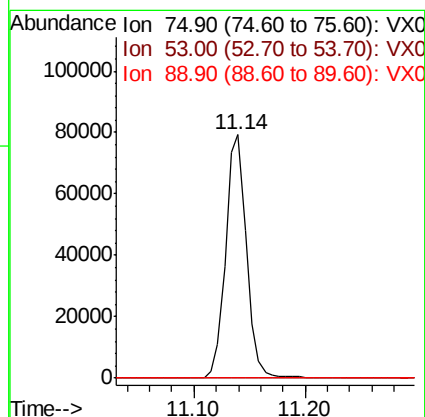
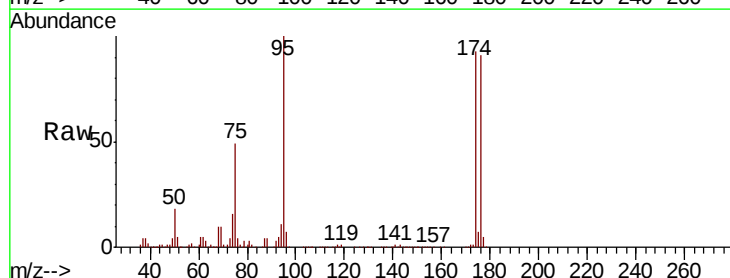
Tgt Ion: 75 Resp: 102274

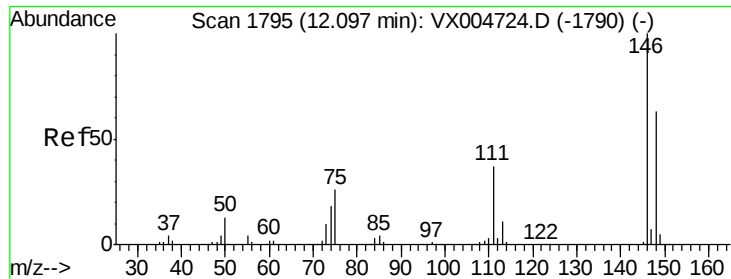
Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#





#88

1,4-Dichlorobenzene

Concen: 0.253 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

Instrument :

MSVOA_X

ClientSampleId :

MW-97-SEP18DL

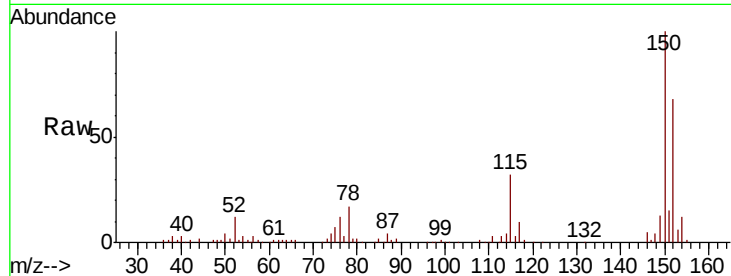
Tot Ion:146 Resp: 1923

Ion Ratio Lower Upper

146 100

111 181.5 18.1 54.1#

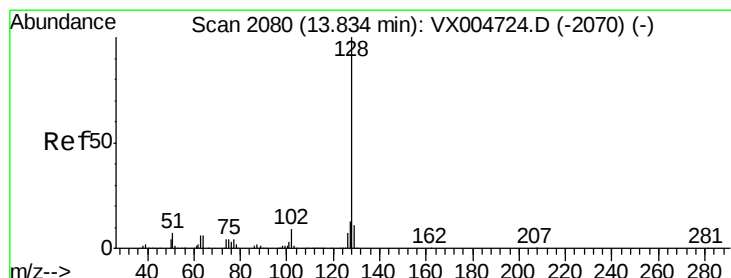
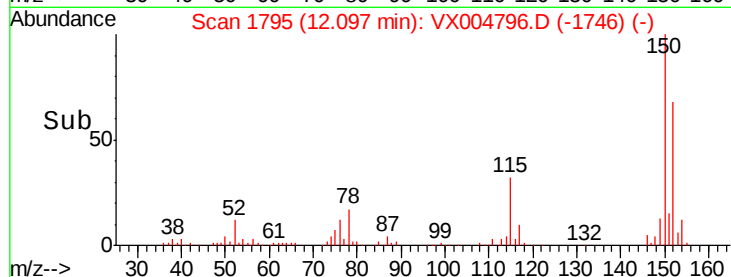
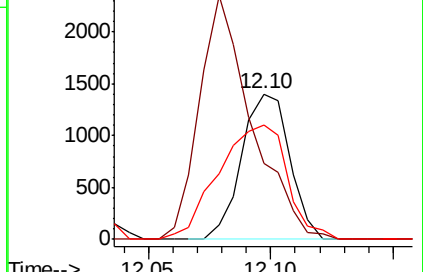
148 112.3 32.0 96.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 0.743 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004796.D

Acq: 28 Sep 2018 01:57

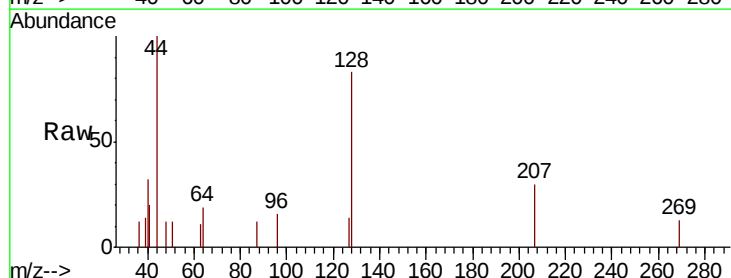
Tgt Ion:128 Resp: 426

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

