

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092818\
 Data File : VX004826.D
 Acq On : 28 Sep 2018 17:25
 Operator : JC/MD
 Sample : J5085-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-10.29

Quant Time: Sep 29 06:26:39 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	224172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	367330	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	359659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198763	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	178242	55.66	ug/l	0.00
Spiked Amount			Recovery	=	111.32%	
35) Dibromofluoromethane	5.50	113	149098	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
50) Toluene-d8	8.72	98	534296	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	11.14	95	192331	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	

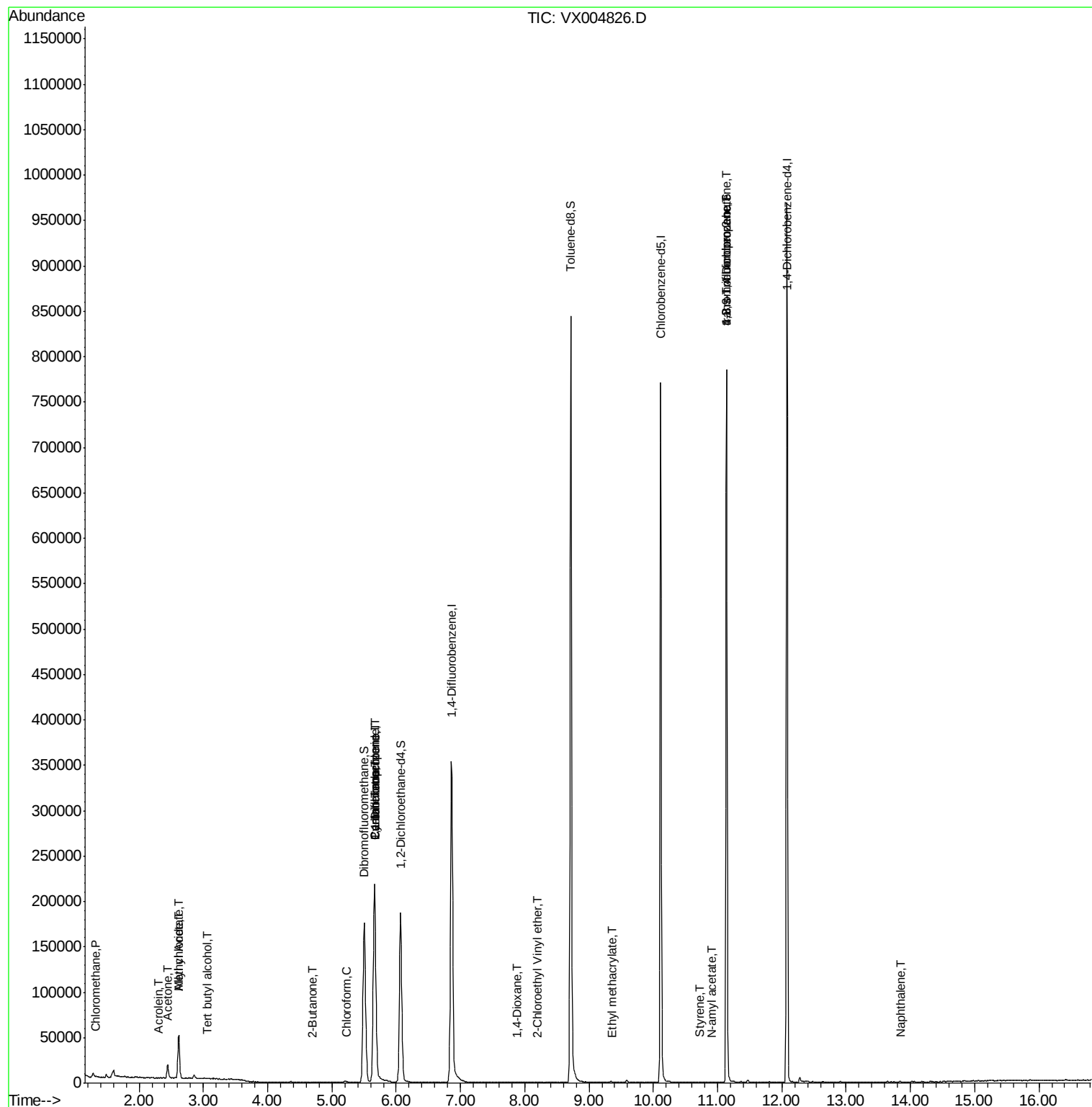
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	880	0.237	ug/l #	66
6) Chloroethane	1.59	64	2556	Below Cal	#	69
11) Tert butyl alcohol	3.07	59	912	1.019	ug/l #	89
13) Acrolein	2.29	56	328	0.515	ug/l #	55
14) Allyl chloride	2.61	41	4909	0.926	ug/l #	68
16) Acetone	2.45	43	15599	8.344	ug/l	92
18) Methyl Acetate	2.61	43	12389	2.616	ug/l #	51
20) Methylene Chloride	2.85	84	1632	Below Cal	#	87
25) 2-Butanone	4.70	43	1035	0.376	ug/l	92
30) Chloroform	5.21	83	1322	0.263	ug/l	99
31) Cyclohexane	5.67	56	4541	1.114	ug/l #	7
36) 1,1-Dichloropropene	5.67	75	15858	3.733	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20213	4.527	ug/l #	16
49) 1,4-Dioxane	7.88	88	39	0.425	ug/l #	1
56) Ethyl methacrylate	9.36	69	22	2.866	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.20	63	19	14.249	ug/l #	45
70) Styrene	10.72	104	88	2.149	ug/l #	42
74) N-amyl acetate	10.91	43	130	1.766	ug/l #	62
76) 1,2,3-Trichloropropane	11.14	75	96091	21.569	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	95	Below Cal	#	27
81) trans-1,4-Dichloro-2-buten	11.14	75	96091	58.477	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	170	Below Cal	#	30
95) Naphthalene	13.84	128	636	0.757	ug/l #	73

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampled :

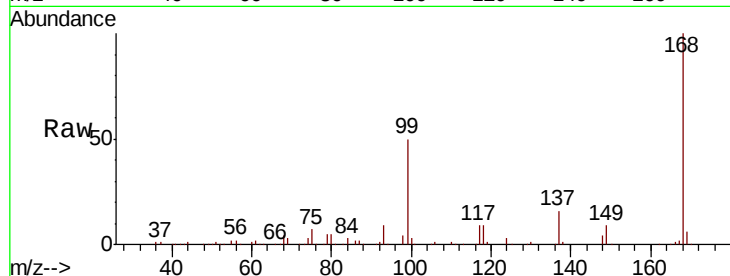
MH-10.29

Tot Ion:168 Resp: 224172

Ion Ratio Lower Upper

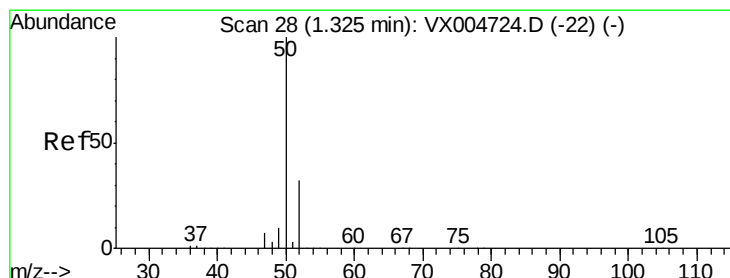
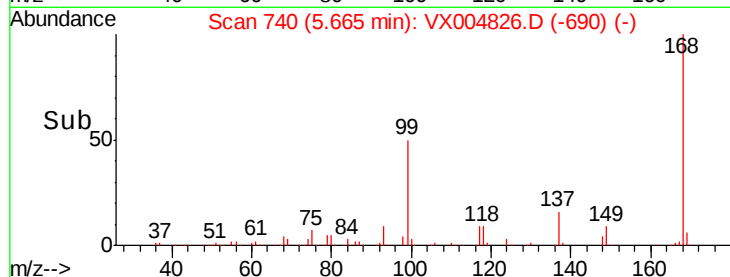
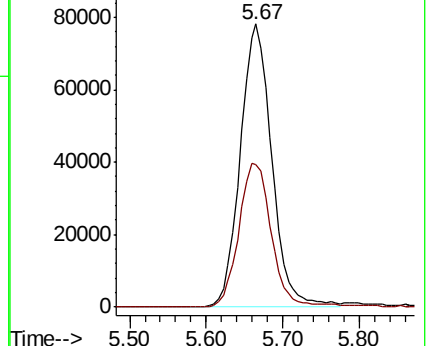
168 100

99 50.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.237 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX004826.D

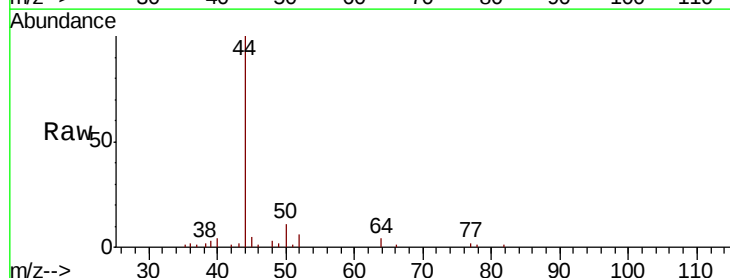
Acq: 28 Sep 2018 17:25

Tgt Ion: 50 Resp: 880

Ion Ratio Lower Upper

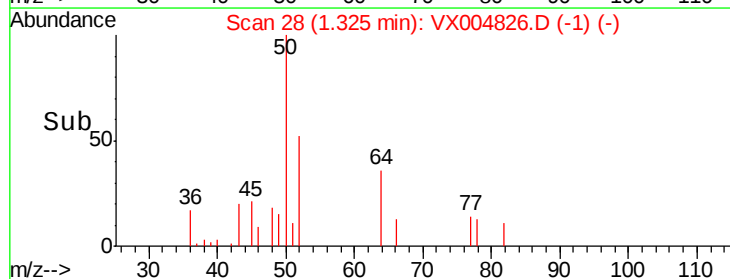
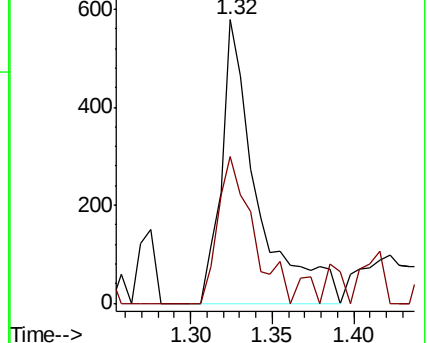
50 100

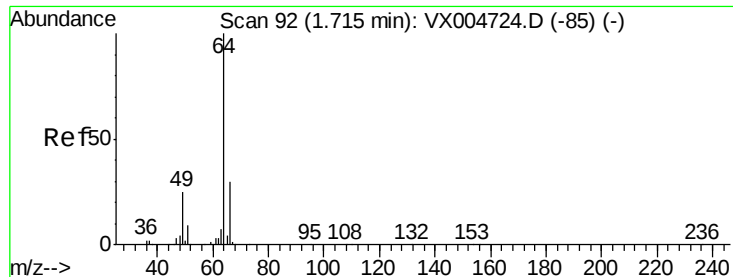
52 51.7 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.59 min Scan# 72

Delta R.T. -0.12 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampleId :

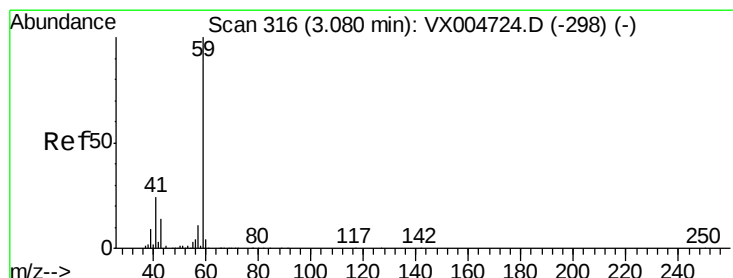
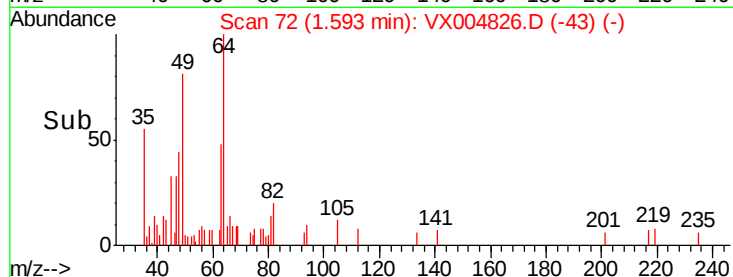
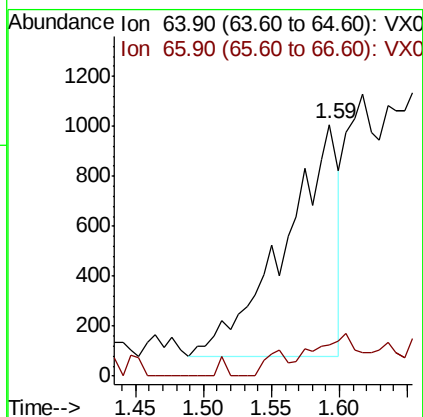
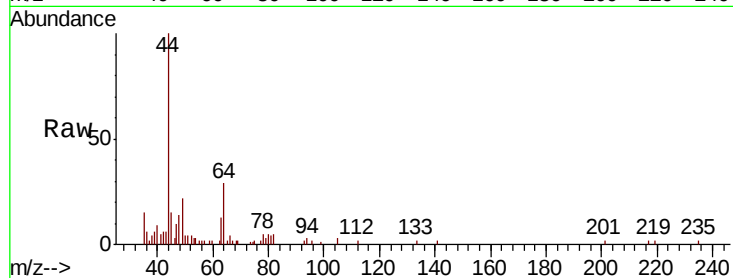
MH-10.29

Tot Ion: 64 Resp: 2556

Ion Ratio Lower Upper

64 100

66 13.7 24.6 36.8#



#11

Tert butyl alcohol

Concen: 1.019 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX004826.D

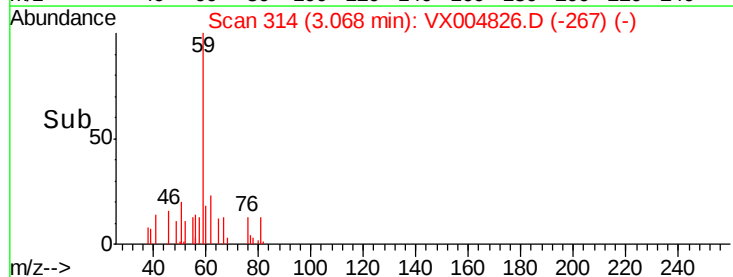
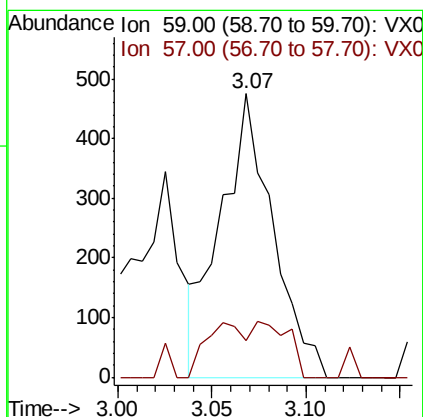
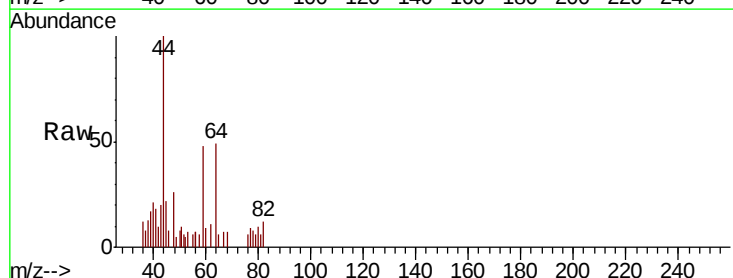
Acq: 28 Sep 2018 17:25

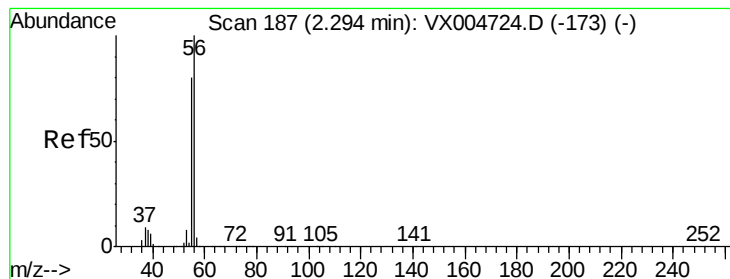
Tgt Ion: 59 Resp: 912

Ion Ratio Lower Upper

59 100

57 14.5 8.2 12.4#





#13

Acrolein

Concen: 0.515 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampled :

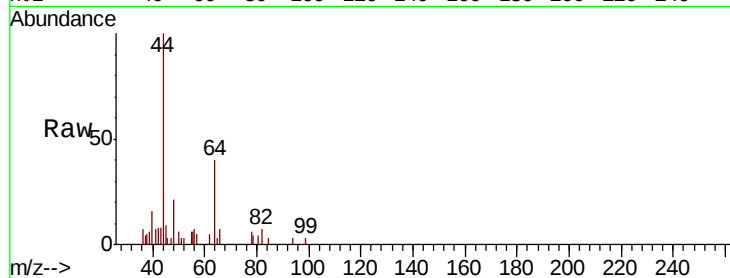
MH-10.29

Tot Ion: 56 Resp: 328

Ion Ratio Lower Upper

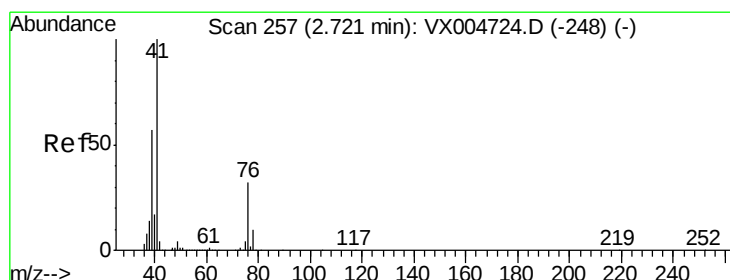
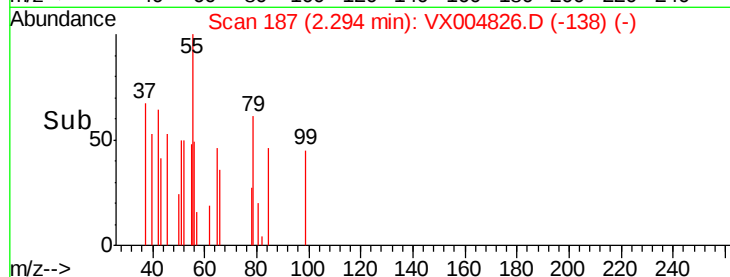
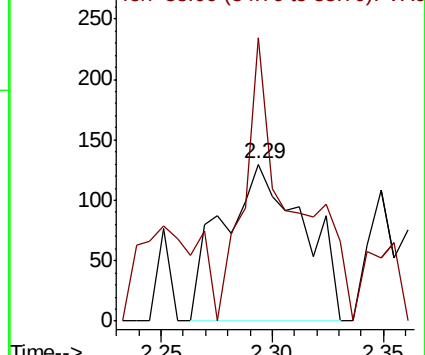
56 100

55 104.6 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 0.926 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.11 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

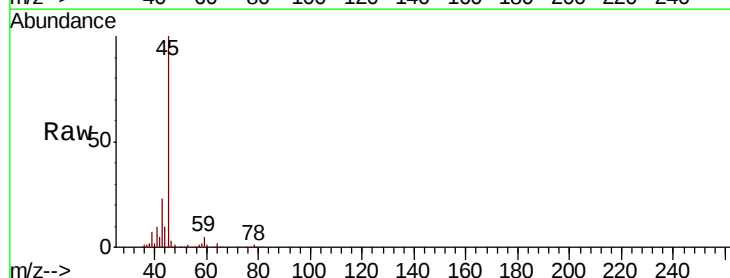
Tgt Ion: 41 Resp: 4909

Ion Ratio Lower Upper

41 100

39 74.9 48.9 73.3#

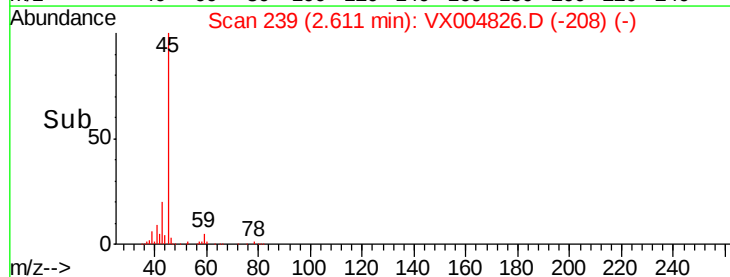
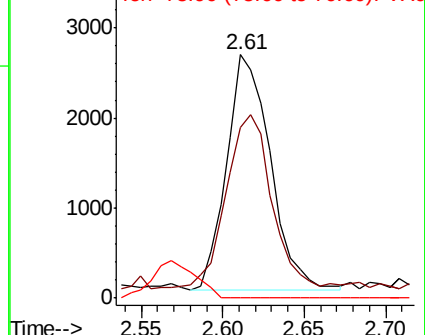
76 0.0 26.7 40.1#

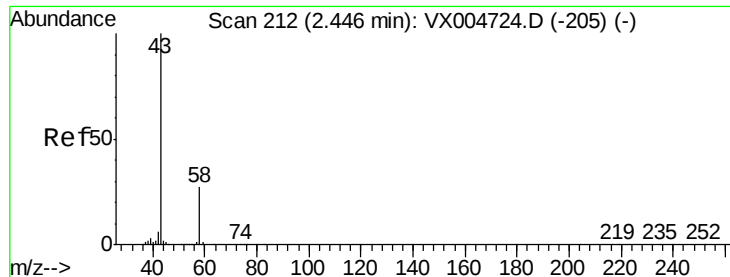


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 8.344 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampleId :

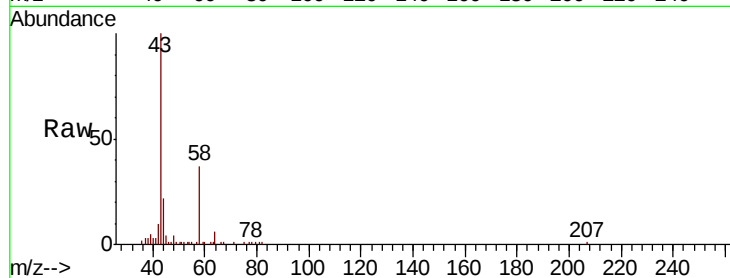
MH-10.29

Tot Ion: 43 Resp: 15599

Ion Ratio Lower Upper

43 100

58 37.2 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

10000

8000

6000

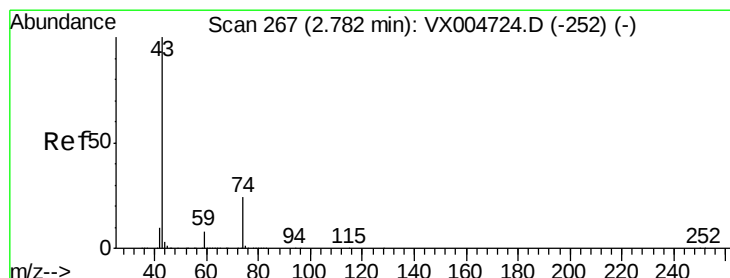
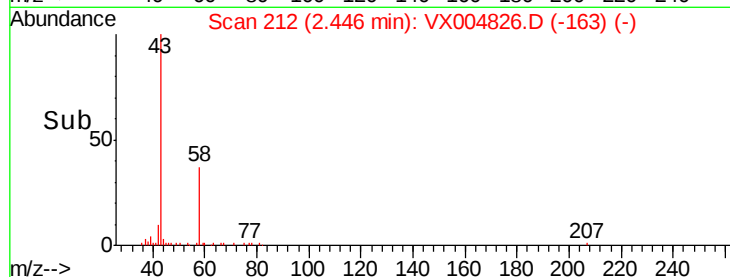
4000

2000

0

Time-->

2.35 2.40 2.45 2.50 2.55



#18

Methyl Acetate

Concen: 2.616 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.17 min

Lab File: VX004826.D

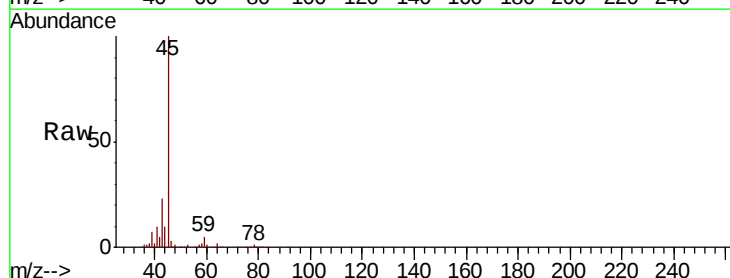
Acq: 28 Sep 2018 17:25

Tgt Ion: 43 Resp: 12389

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.61

6000

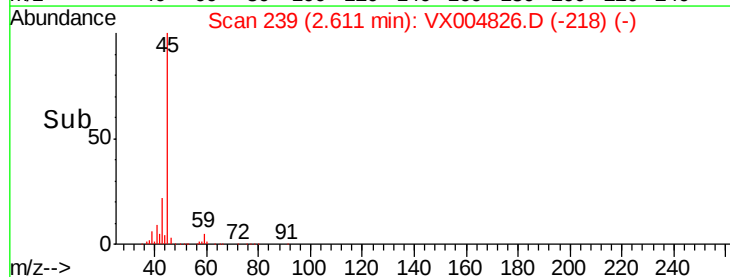
4000

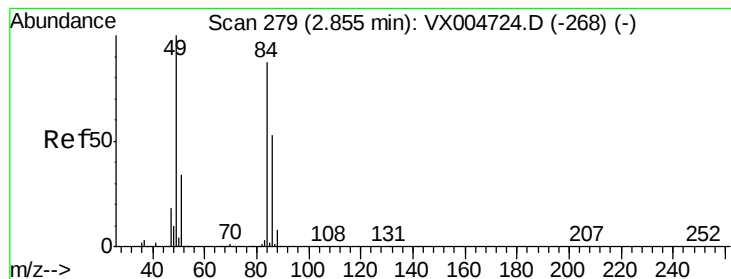
2000

0

Time-->

2.50 2.60 2.70





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampled :

MH-10.29

Tot Ion: 84 Resp: 1632

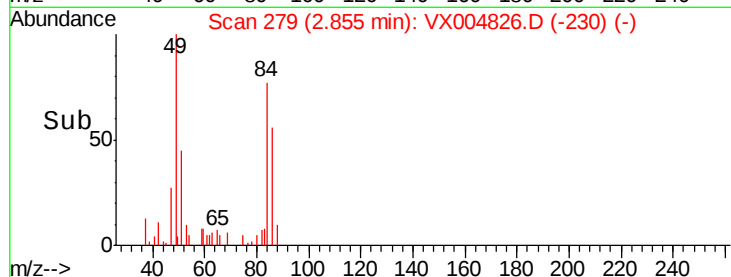
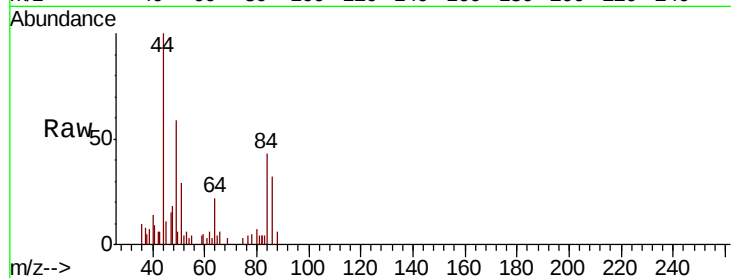
Ion Ratio Lower Upper

84 100

49 136.2 101.2 151.8

51 56.9 29.5 44.3#

86 73.2 52.3 78.5

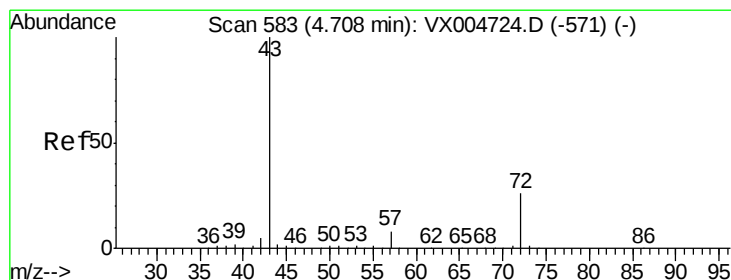
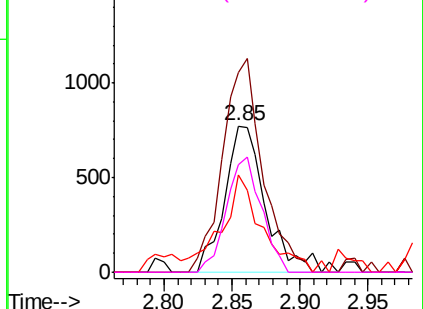


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.376 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX004826.D

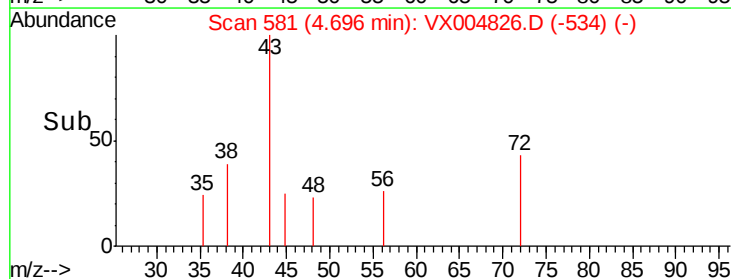
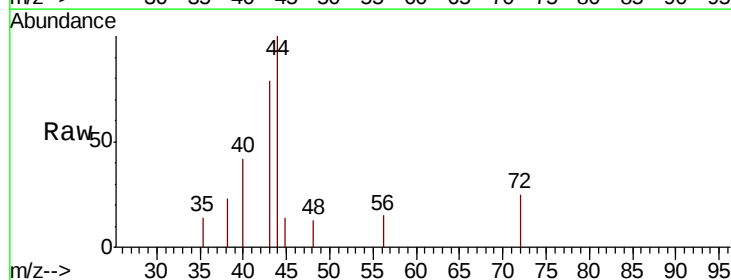
Acq: 28 Sep 2018 17:25

Tgt Ion: 43 Resp: 1035

Ion Ratio Lower Upper

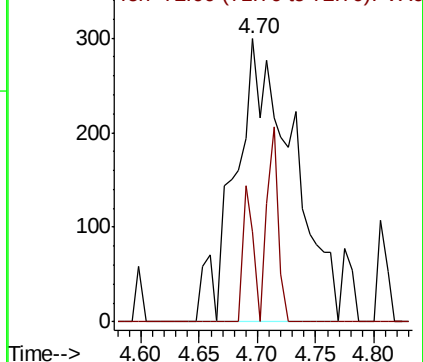
43 100

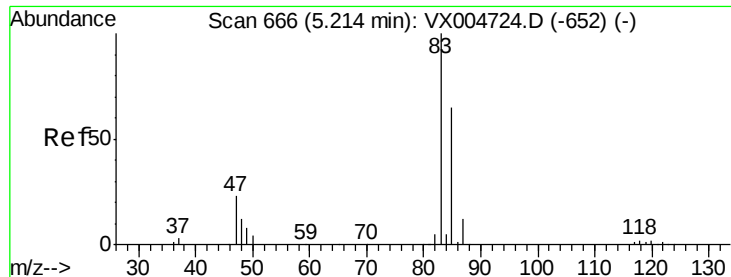
72 31.8 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

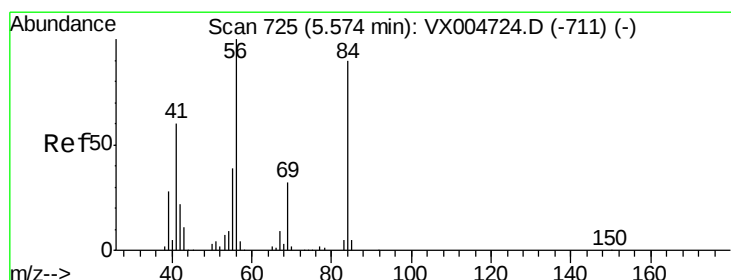
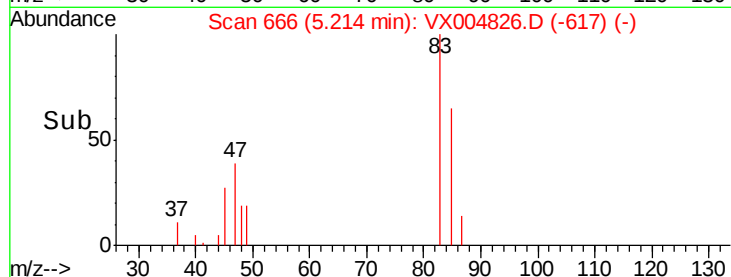
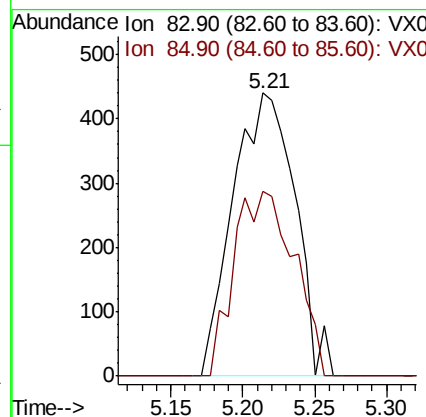
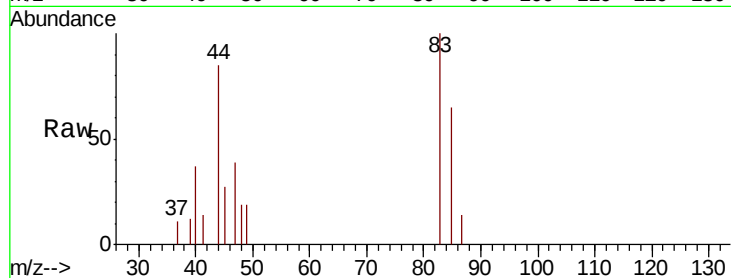




#30
Chloroform
Concen: 0.263 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX004826.D
Acq: 28 Sep 2018 17:25

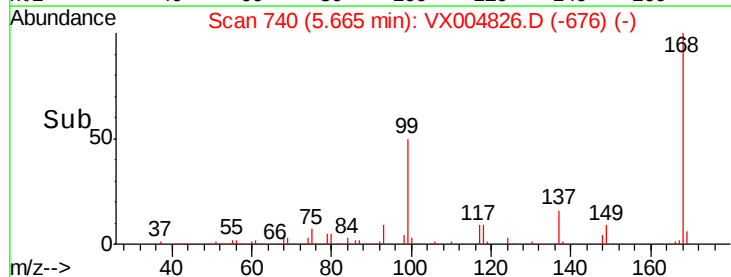
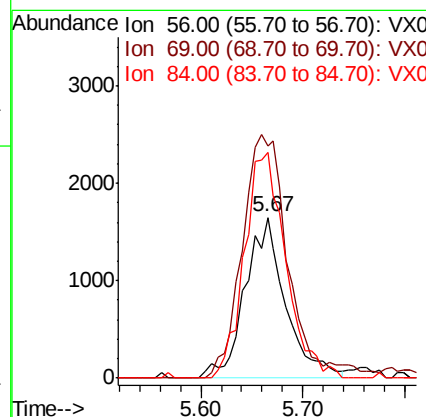
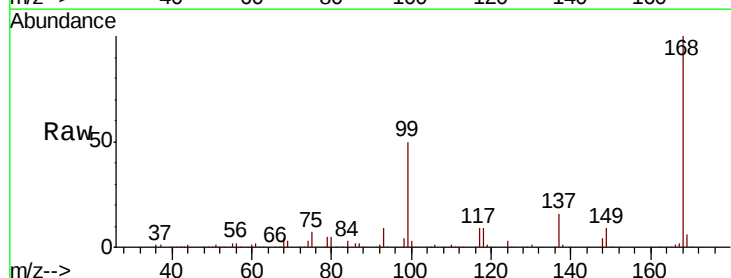
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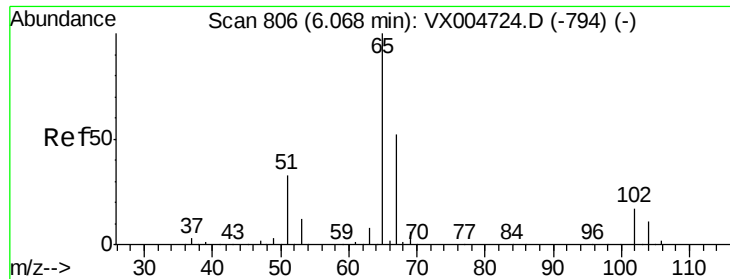
Tot Ion: 83 Resp: 1322
Ion Ratio Lower Upper
83 100
85 65.2 52.6 79.0



#31
Cyclohexane
Concen: 1.114 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004826.D
Acq: 28 Sep 2018 17:25

Tgt Ion: 56 Resp: 4541
Ion Ratio Lower Upper
56 100
69 144.2 25.4 38.2#
84 140.5 71.4 107.2#

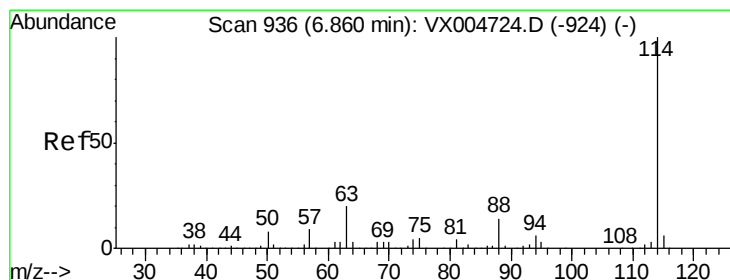
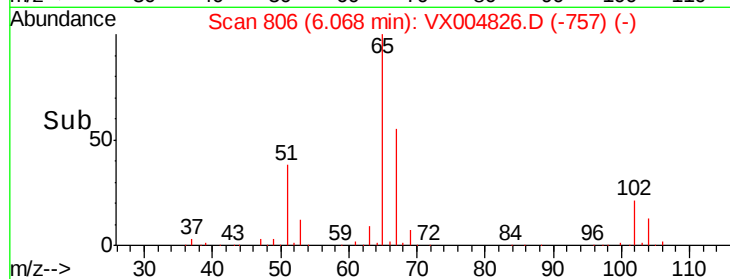
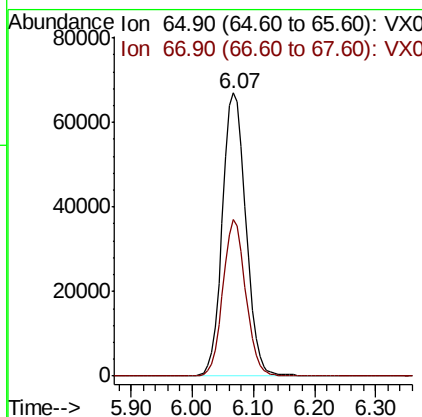
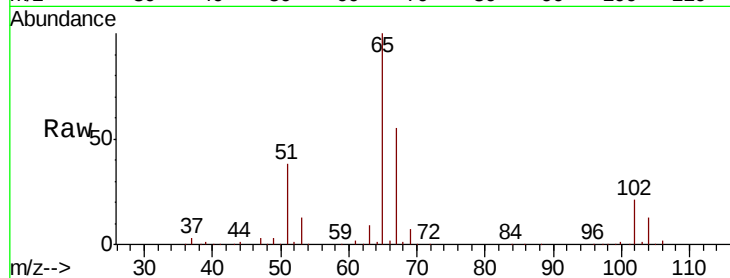




#33
 1,2-Dichloroethane-d4
 Concen: 55.661 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004826.D
 Acq: 28 Sep 2018 17:25

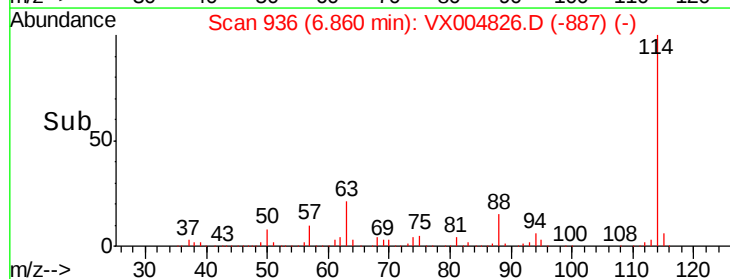
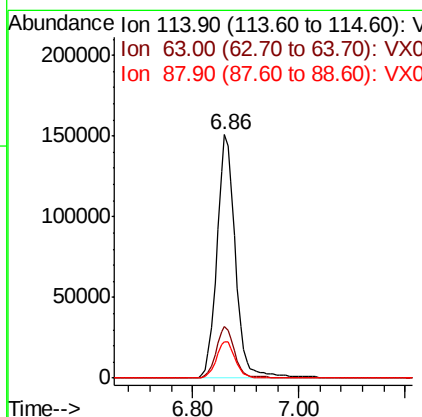
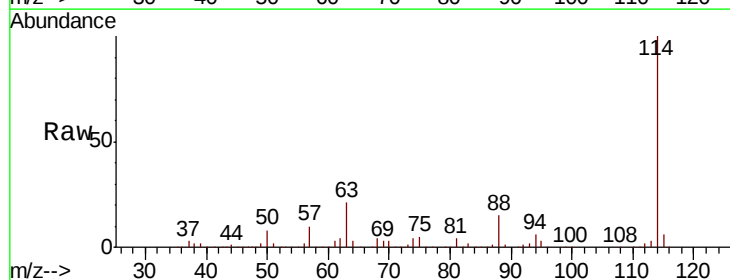
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-10.29

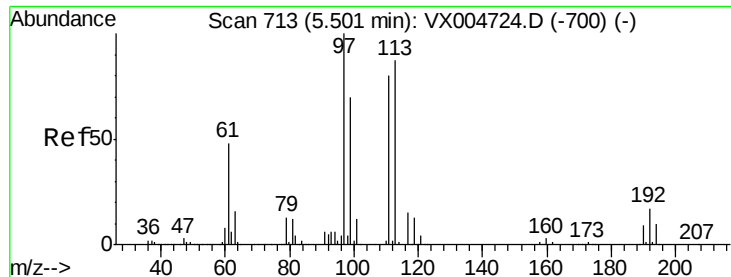
Tot Ion: 65 Resp: 178242
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004826.D
 Acq: 28 Sep 2018 17:25

Tgt Ion: 114 Resp: 367330
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 39.0
 88 15.1 0.0 30.4

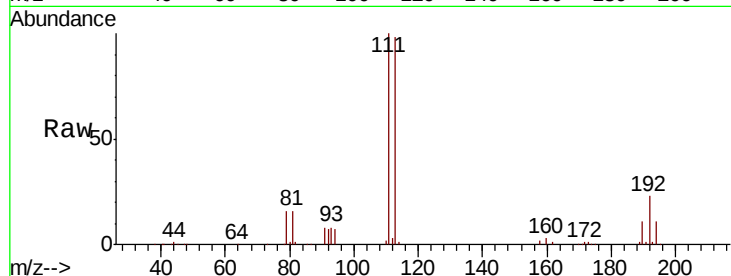




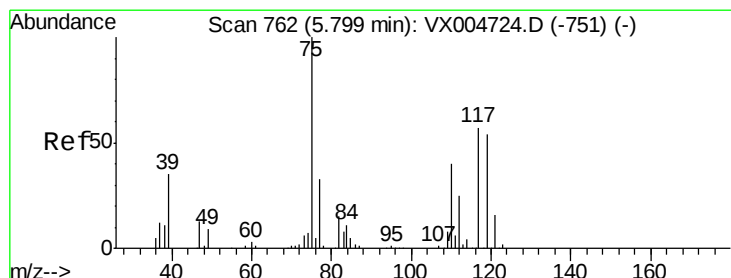
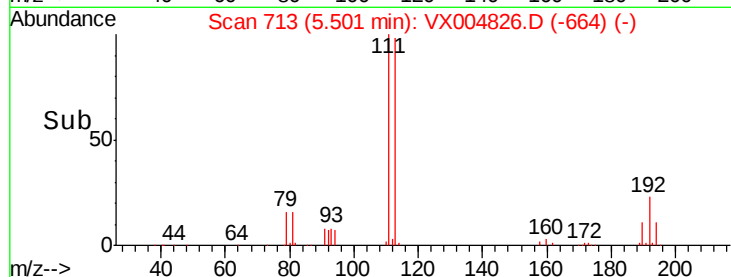
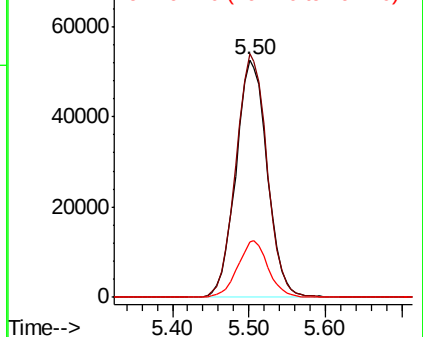
#35
 Dibromofluoromethane
 Concen: 47.893 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004826.D
 Acq: 28 Sep 2018 17:25

Instrument :
 MSVOA_X
 ClientSampled :
 MH-10.29

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.4	123.6
192	23.1	19.4	29.2

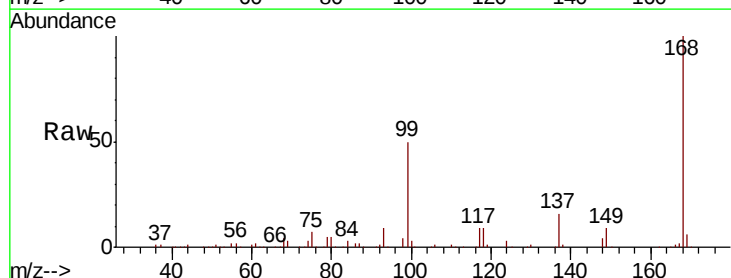


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

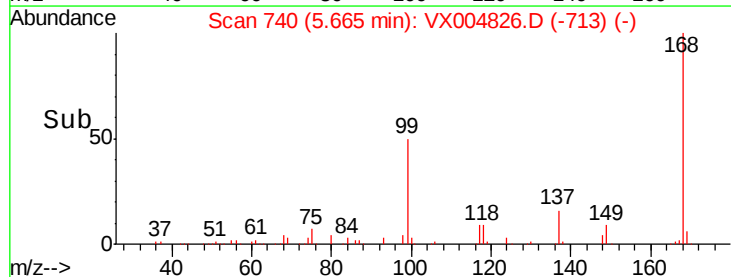
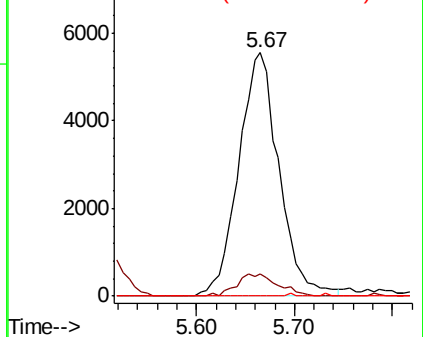


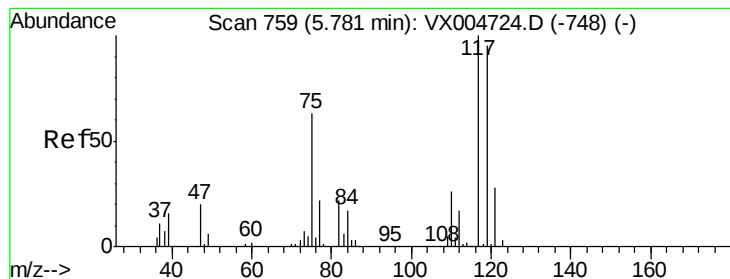
#36
 1,1-Dichloropropene
 Concen: 3.733 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004826.D
 Acq: 28 Sep 2018 17:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	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





#38

Carbon Tetrachloride

Concen: 4.527 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampled :

MH-10.29

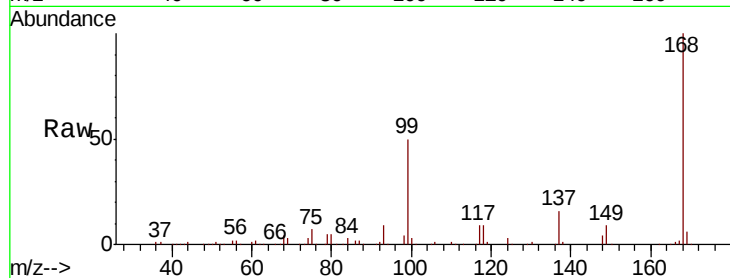
Tot Ion:117 Resp: 20213

Ion Ratio Lower Upper

117 100

119 7.2 78.8 118.2#

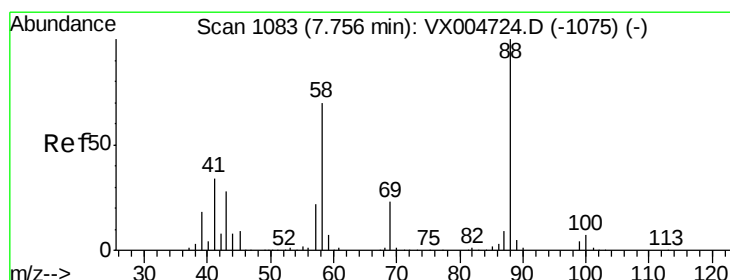
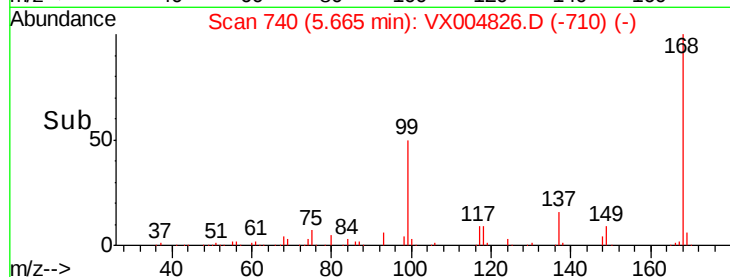
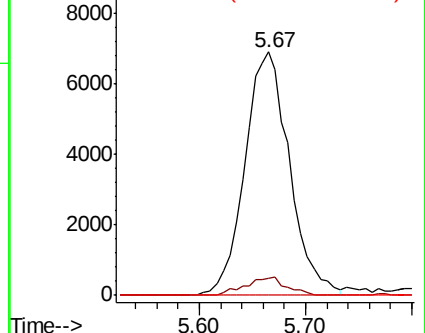
121 0.0 24.9 37.3#



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



#49

1,4-Dioxane

Concen: 0.425 ug/l

RT: 7.88 min Scan# 1104

Delta R.T. 0.13 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

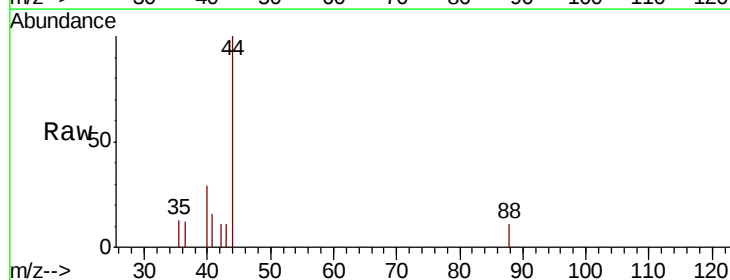
Tgt Ion: 88 Resp: 39

Ion Ratio Lower Upper

88 100

43 335.9 24.7 37.1#

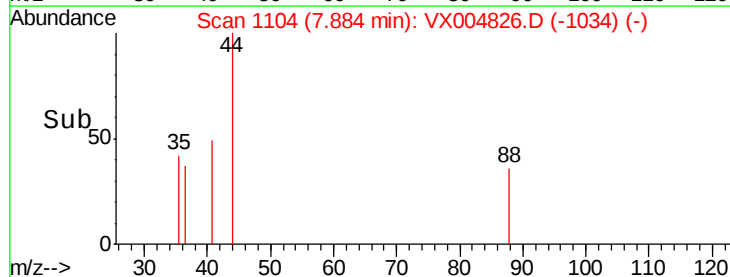
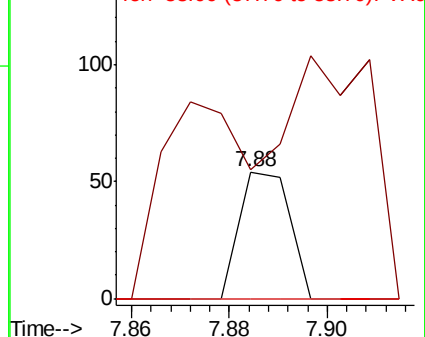
58 0.0 55.3 82.9#

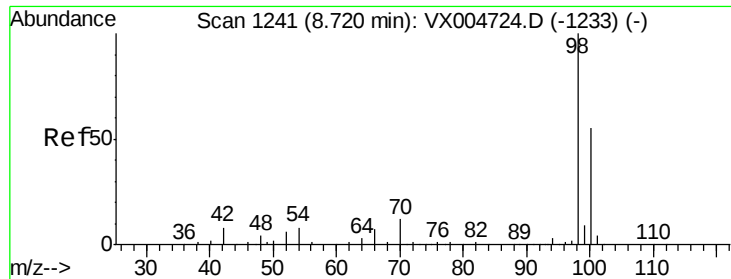


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.624 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampled :

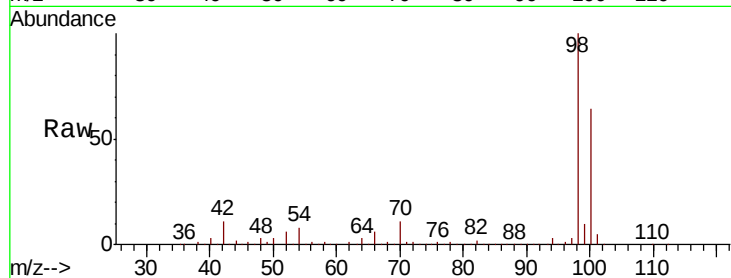
MH-10.29

Tot Ion: 98 Resp: 534296

Ion Ratio Lower Upper

98 100

100 63.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

300000

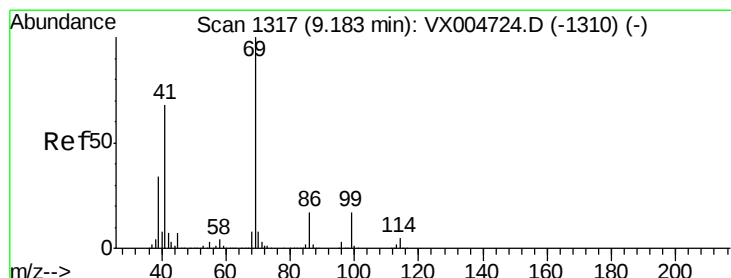
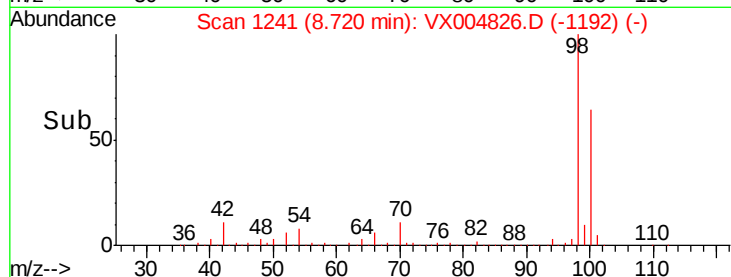
200000

100000

0

Time-->

8.60 8.70 8.80 8.90



#56

Ethyl methacrylate

Concen: 2.866 ug/l

RT: 9.36 min Scan# 1346

Delta R.T. 0.18 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

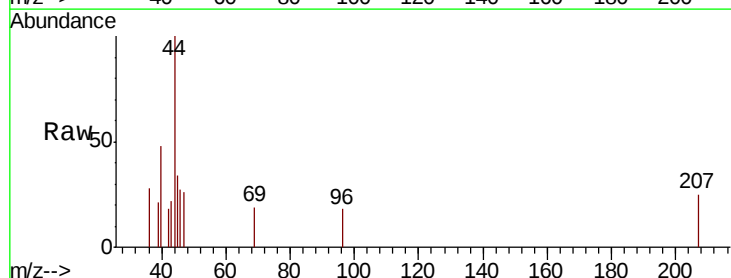
Tgt Ion: 69 Resp: 22

Ion Ratio Lower Upper

69 100

41 240.9 51.0 76.4#

39 613.6 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

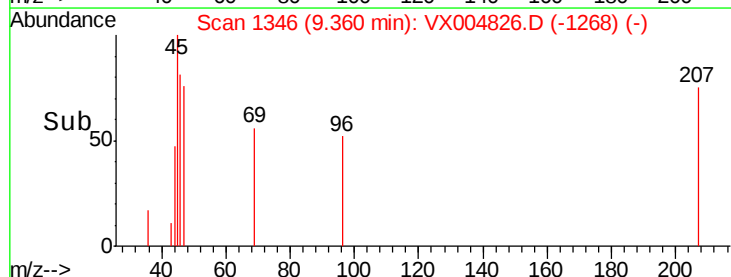
100

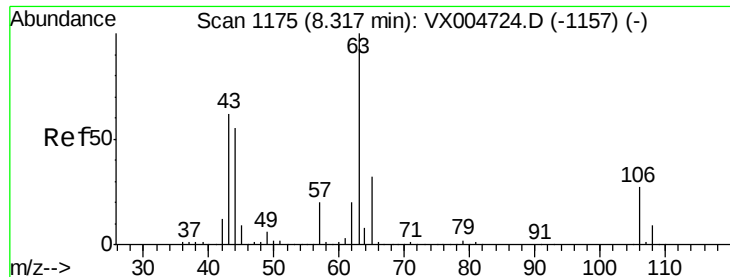
50

0

Time-->

9.34 9.35 9.36 9.37 9.38

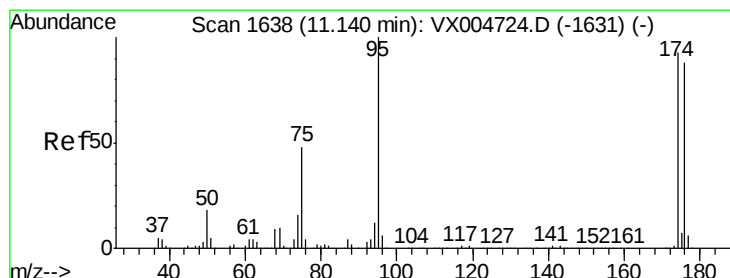
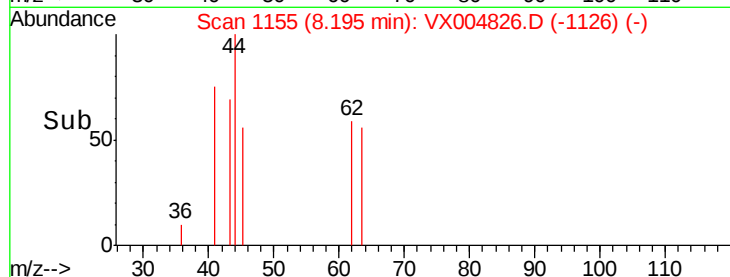
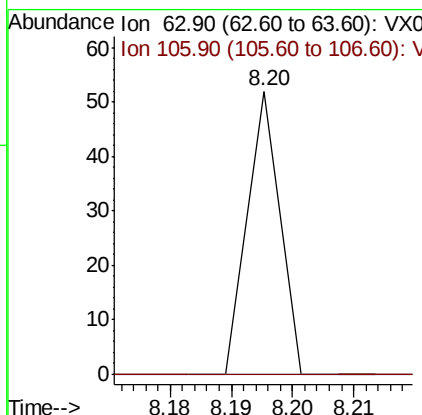
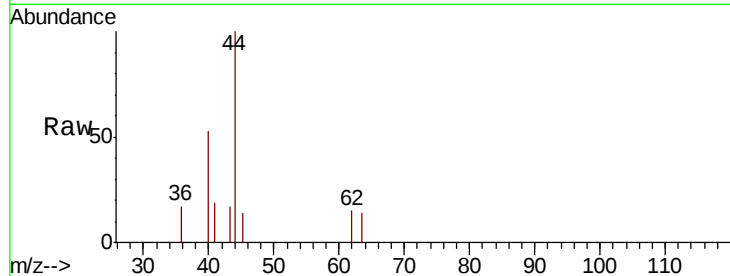




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.249 ug/l
 RT: 8.20 min Scan# 1155
 Delta R.T. -0.12 min
 Lab File: VX004826.D
 Acq: 28 Sep 2018 17:25

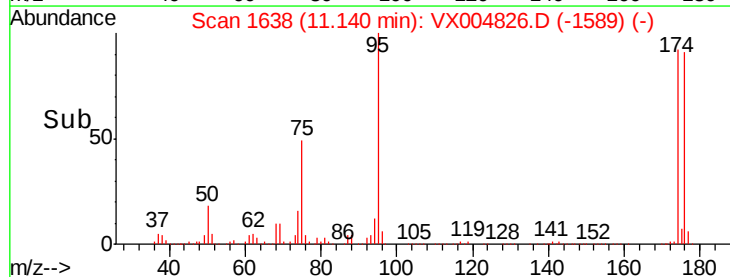
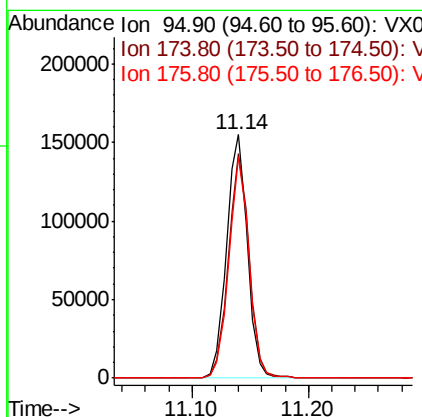
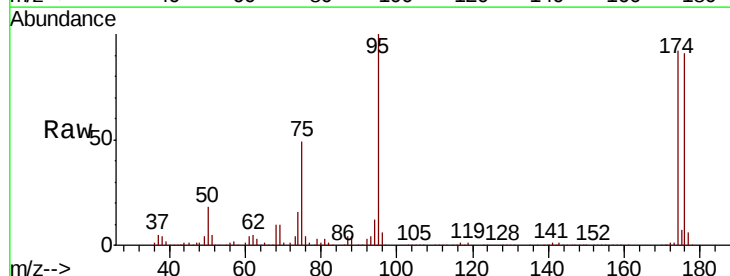
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-10.29

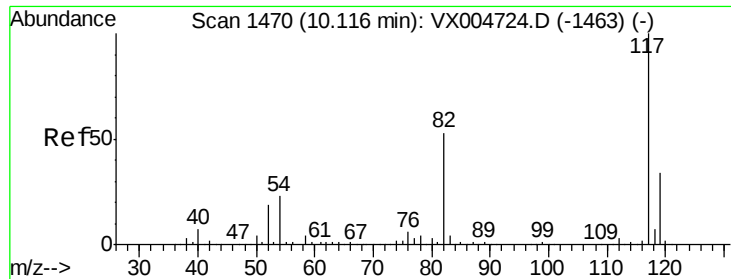
Tot Ion: 63 Resp: 19
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.9 35.9#



#62
 4-Bromofluorobenzene
 Concen: 51.583 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX004826.D
 Acq: 28 Sep 2018 17:25

Tgt Ion: 95 Resp: 192331
 Ion Ratio Lower Upper
 95 100
 174 92.0 0.0 185.2
 176 88.2 0.0 178.6

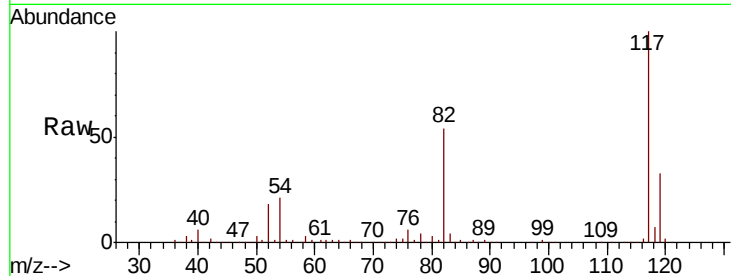




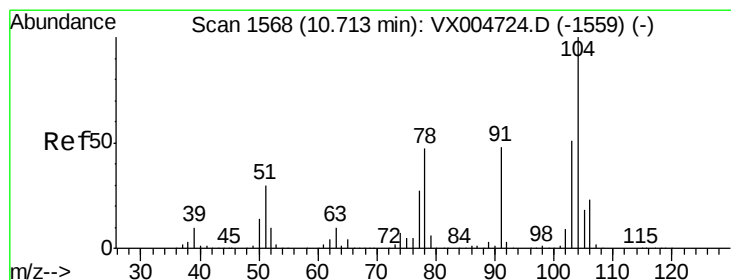
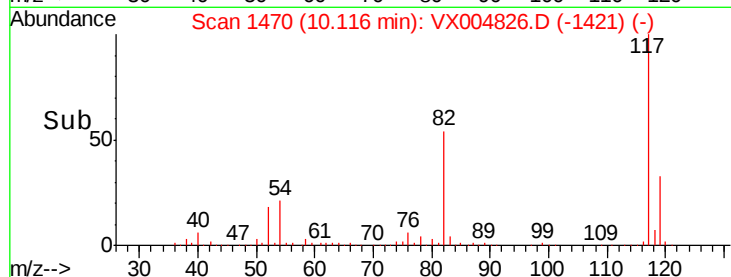
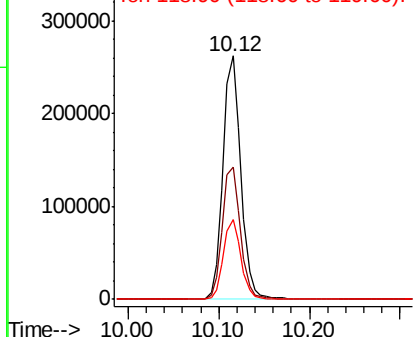
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004826.D
Acq: 28 Sep 2018 17:25

Instrument :
MSVOA_X
ClientSampleId :
MH-10.29

Tot Ion:117 Resp: 359659
Ion Ratio Lower Upper
117 100
82 54.3 47.8 71.6
119 32.6 29.3 43.9

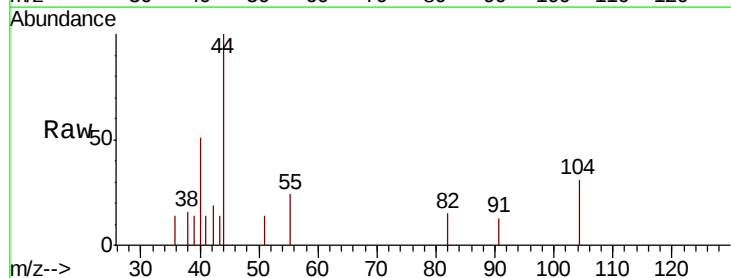


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

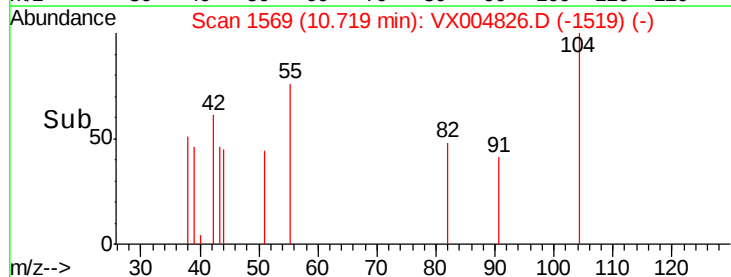
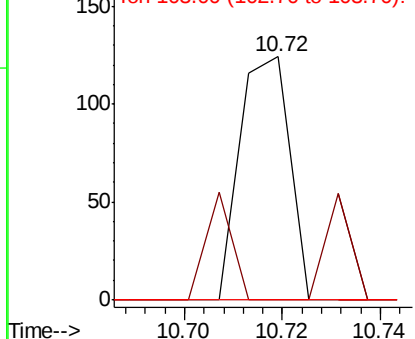


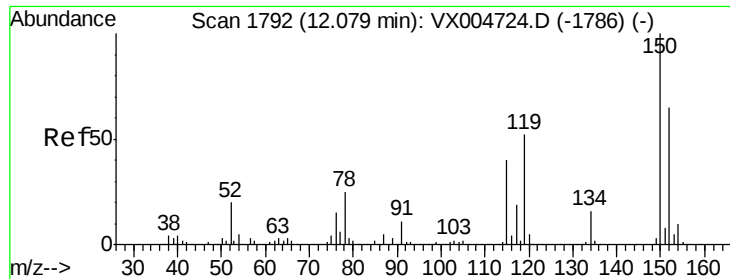
#70
Styrene
Concen: 2.149 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX004826.D
Acq: 28 Sep 2018 17:25

Tgt Ion:104 Resp: 88
Ion Ratio Lower Upper
104 100
78 22.7 37.4 56.0#
103 0.0 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampleId :

MH-10.29

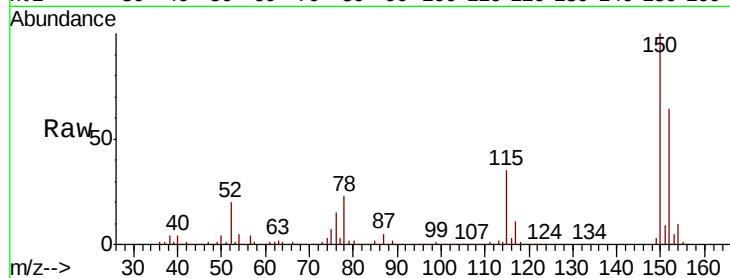
Tot Ion:152 Resp: 198763

Ion Ratio Lower Upper

152 100

115 55.5 39.0 117.0

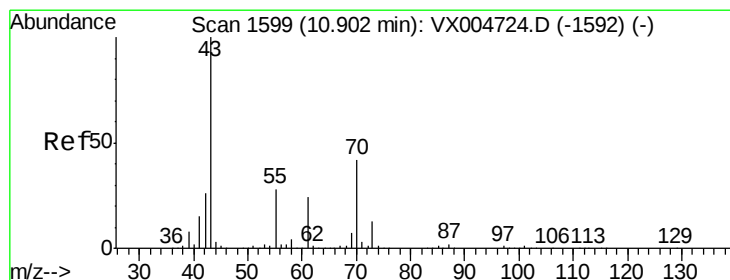
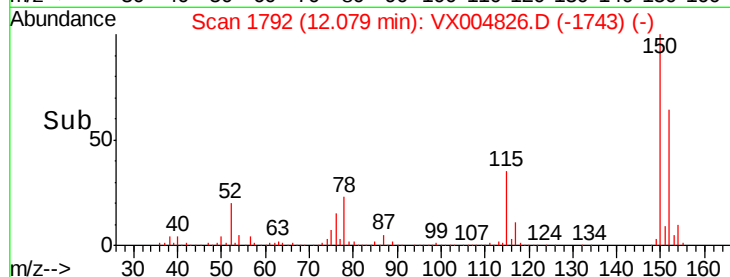
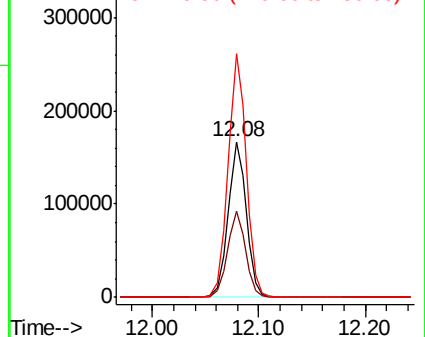
150 157.1 0.0 351.0



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: 1.766 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Tgt Ion: 43 Resp: 130

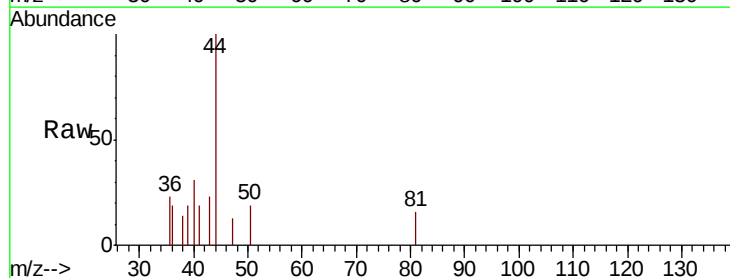
Ion Ratio Lower Upper

43 100

70 35.4 37.4 56.0#

55 59.2 21.8 32.8#

61 0.0 20.6 30.8#

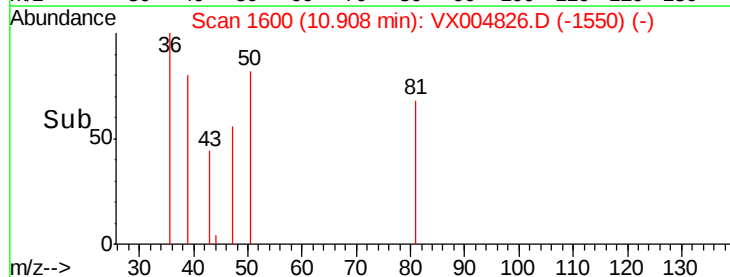
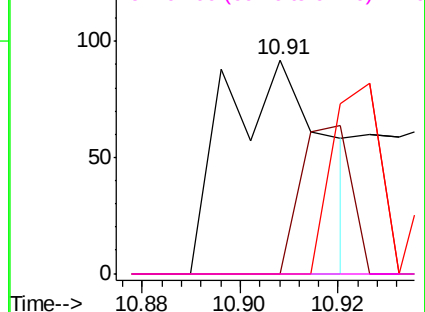


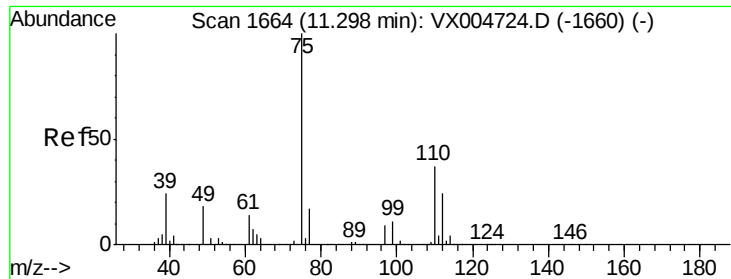
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.569 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampled :

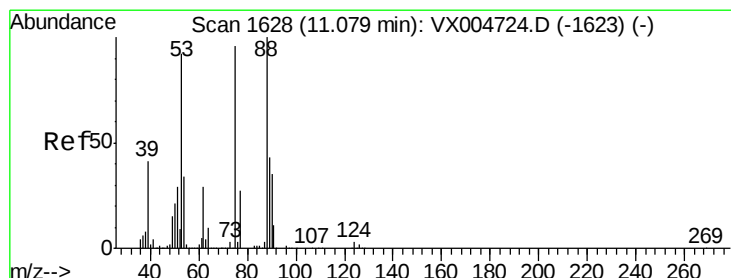
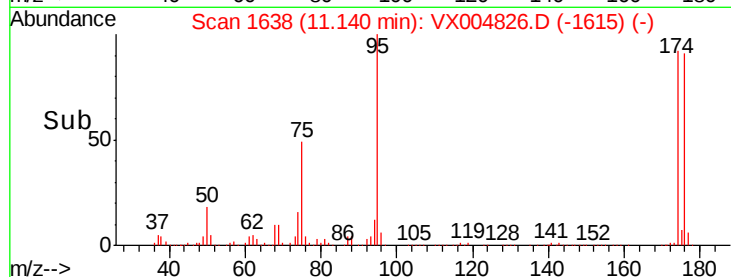
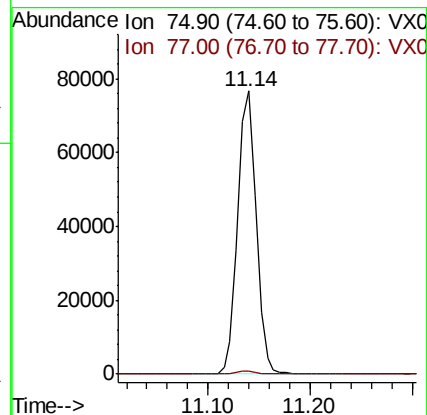
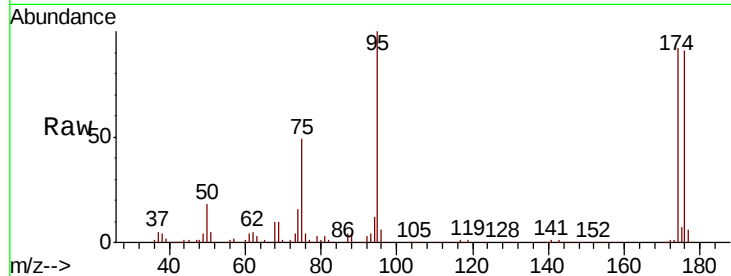
MH-10.29

Tot Ion: 75 Resp: 96091

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.477 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

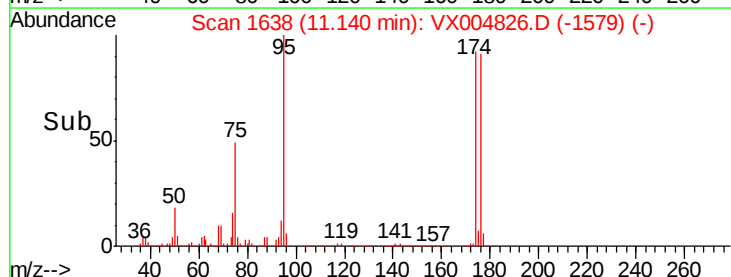
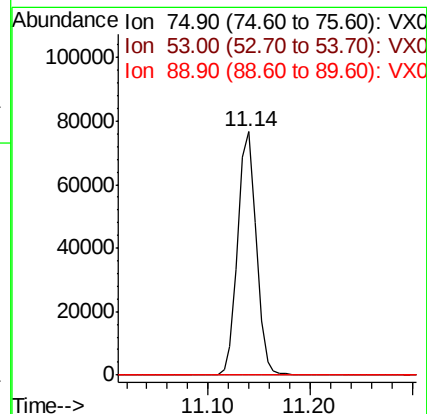
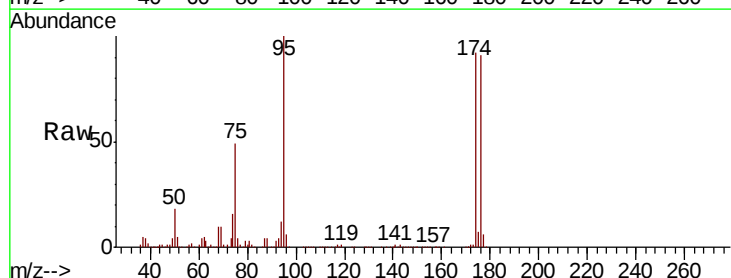
Tgt Ion: 75 Resp: 96091

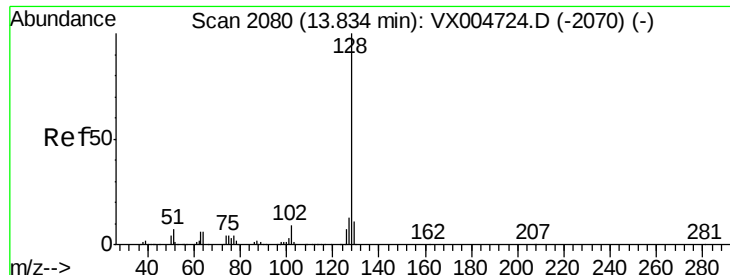
Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 0.757 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX004826.D

Acq: 28 Sep 2018 17:25

Instrument :

MSVOA_X

ClientSampleId :

MH-10.29

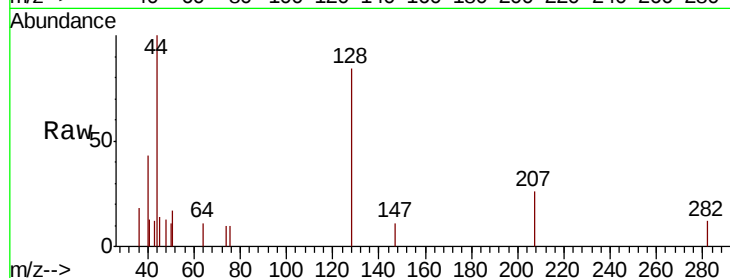
Tot Ion:128 Resp: 636

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 3.1 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

