

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080218\
 Data File : VF059812.D
 Acq On : 2 Aug 2018 20:35
 Operator : VA/AP
 Sample : J4164-08
 Misc : 12.18g/5mL/MSVOA F/SOIL
 ALS Vial : 91 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-4(7-9)

Quant Time: Aug 03 07:06:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 15:23:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	8335	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	8294	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	5317	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	2213	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	1989	13.28	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	26.56%	
35) Dibromofluoromethane	4.28	113	2327	27.01	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	54.02%	
50) Toluene-d8	7.70	98	6002	29.88	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	59.76%	
62) 4-Bromofluorobenzene	11.50	95	1722	15.48	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	30.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	293	1.255	ug/l #	38
4) Vinyl Chloride	1.06	62	67	Below Cal	#	47
6) Chloroethane	1.33	64	94	Below Cal	#	35
8) Diethyl Ether	1.63	74	69	2.593	ug/l #	1
10) Methyl Iodide	1.86	142	85	Below Cal	#	20
11) Tert butyl alcohol	2.60	59	89	13.354	ug/l #	74
14) Allyl chloride	2.18	41	147	1.426	ug/l #	1
15) Acrylonitrile	2.98	53	81	8.430	ug/l #	7
16) Acetone	2.32	43	118	4.379	ug/l #	68
17) Carbon Disulfide	1.99	76	65	Below Cal	#	71
18) Methyl Acetate	2.47	43	105	Below Cal	#	64
20) Methylene Chloride	2.31	84	62	Below Cal	#	1
23) Vinyl Acetate	3.28	43	212	1.892	ug/l #	83
25) 2-Butanone	4.52	43	171	5.687	ug/l #	74
28) Bromochloromethane	3.96	49	64	Below Cal	#	15
29) Tetrahydrofuran	4.28	42	111	9.605	ug/l #	39
31) Cyclohexane	3.73	56	65	Below Cal	#	15
36) 1,1-Dichloropropene	4.28	75	61	Below Cal	#	46
37) Ethyl Acetate	4.30	43	166	Below Cal	#	19
39) Methylcyclohexane	5.75	83	130	Below Cal	#	13
43) Isopropyl Acetate	7.08	43	144	2.904	ug/l #	41
44) Trichloroethene	5.65	130	145	Below Cal		2
45) 1,2-Dichloropropane	6.41	63	89	2.012	ug/l #	43
46) Dibromomethane	6.17	93	69	1.643	ug/l #	8
48) Methyl methacrylate	6.87	41	174	4.664	ug/l #	13
49) 1,4-Dioxane	6.38	88	137	563.193	ug/l #	21
51) 4-Methyl-2-Pentanone	8.39	43	495	13.121	ug/l #	42
55) 1,1,2-Trichloroethane	8.61	97	64	1.411	ug/l #	14
56) Ethyl methacrylate	8.88	69	62	1.311	ug/l #	14
57) 1,3-Dichloropropane	9.11	76	101	1.298	ug/l #	41
58) 2-Chloroethyl Vinyl ether	7.83	63	77	14.097	ug/l	100
59) 2-Hexanone	9.57	43	138	4.565	ug/l #	30
64) Tetrachloroethene	8.30	164	60	Below Cal	#	1
68) m/p-Xylenes	10.12	106	84	Below Cal	#	1

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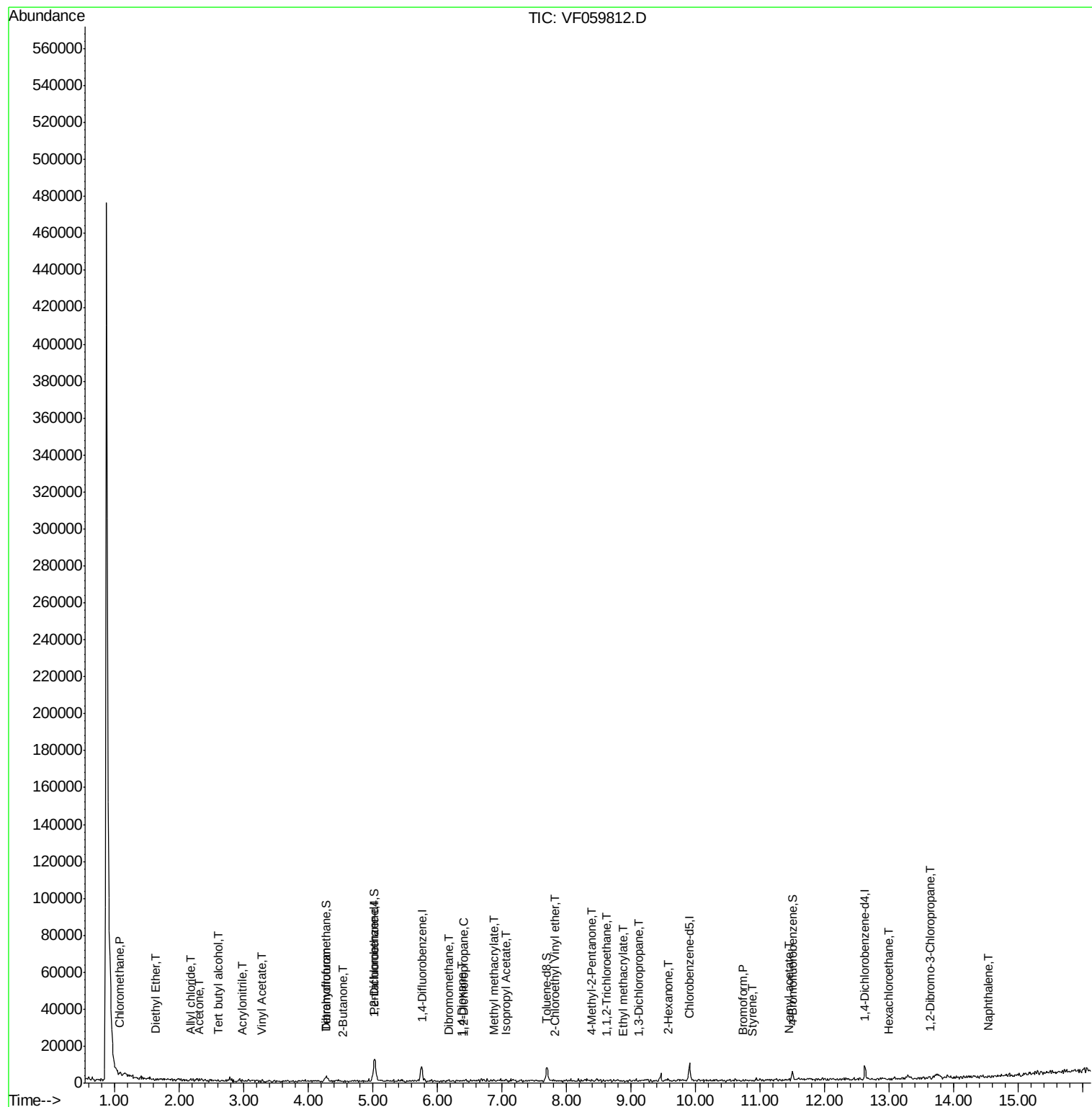
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) Styrene	10.89	104	164	1.597	ug/l #	26
71) Bromoform	10.74	173	89	2.751	ug/l #	30
74) N-amyl acetate	11.45	43	158	4.313	ug/l #	36
82) 4-Chlorotoluene	12.04	91	60	Below Cal	#	44
84) 1,2,4-Trimethylbenzene	12.24	105	74	Below Cal	#	33
85) sec-Butylbenzene	12.24	105	74	Below Cal	#	57
89) n-Butylbenzene	12.87	91	84	Below Cal	#	29
90) Hexachloroethane	12.98	117	61	1.666	ug/l #	18
91) 1,2-Dichlorobenzene	13.17	146	67	Below Cal	#	24
92) 1,2-Dibromo-3-Chloropropan	13.64	75	61	9.129	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.24	180	67	Below Cal	#	12
95) Naphthalene	14.53	128	97	1.017	ug/l #	70

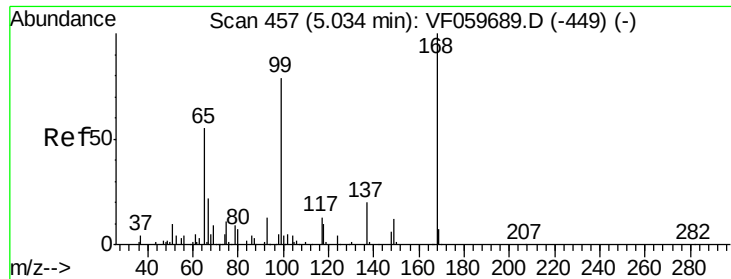
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

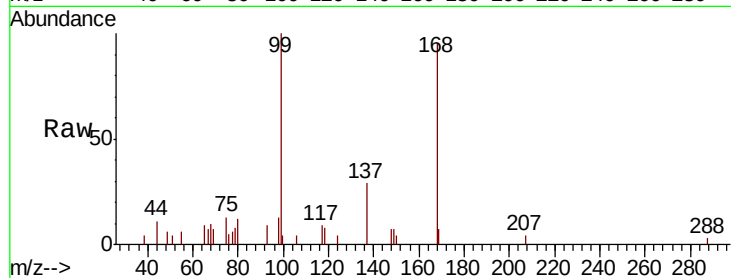
SB-4(7-9)

Tot Ion:168 Resp: 8335

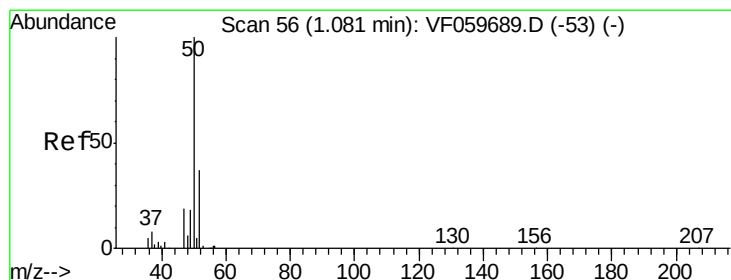
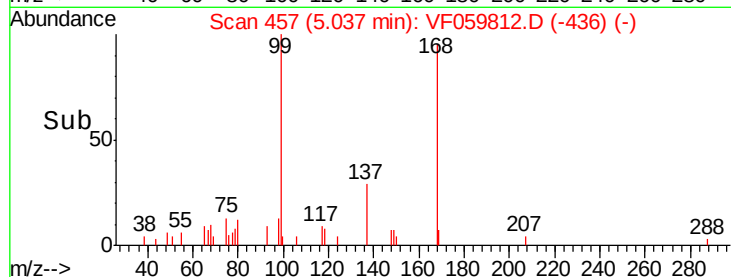
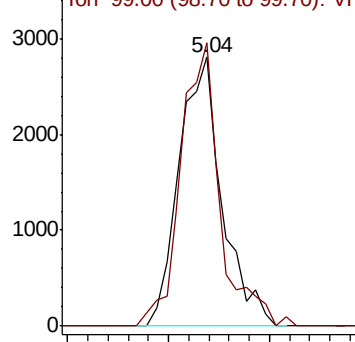
Ion Ratio Lower Upper

168 100

99 105.2 63.3 94.9#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 1.255 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059812.D

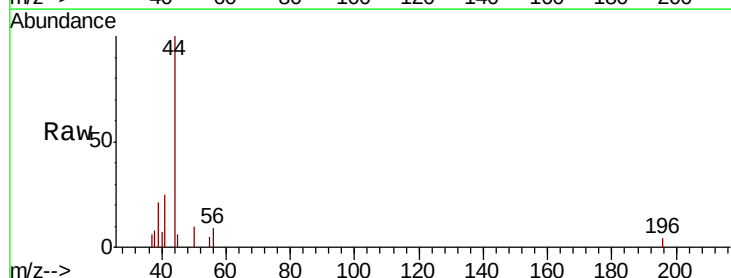
Acq: 2 Aug 2018 20:35

Tgt Ion: 50 Resp: 293

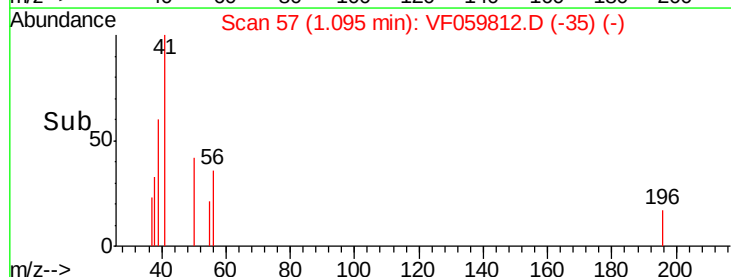
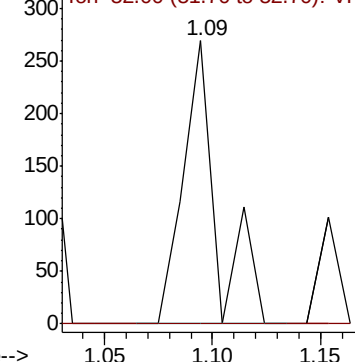
Ion Ratio Lower Upper

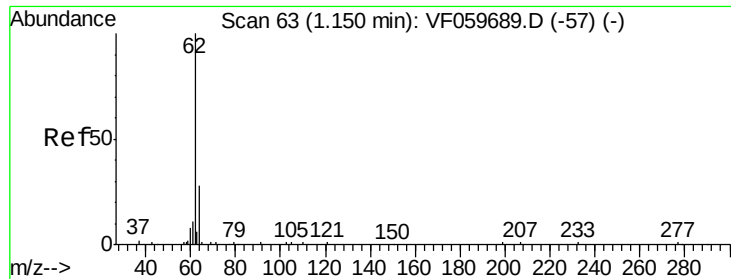
50 100

52 0.0 29.1 43.7#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: Below Cal

RT: 1.06 min Scan# 54

Delta R.T. -0.08 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

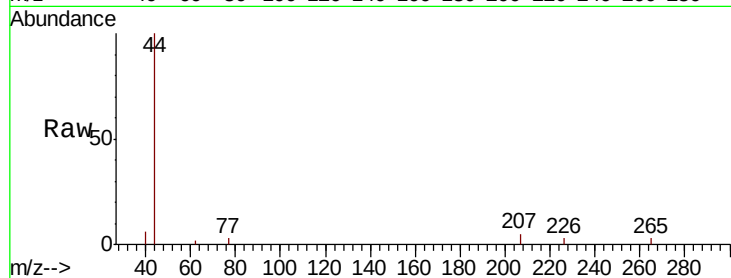
SB-4(7-9)

Tot Ion: 62 Resp: 67

Ion Ratio Lower Upper

62 100

64 0.0 22.6 33.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.06

120

100

80

60

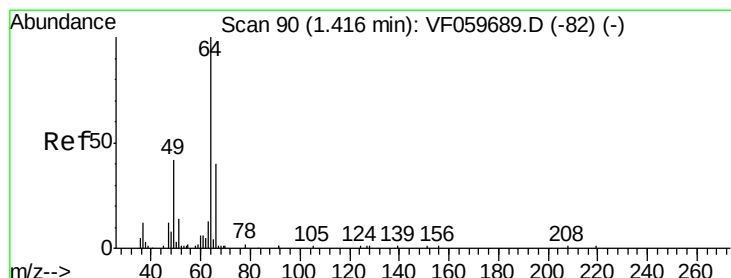
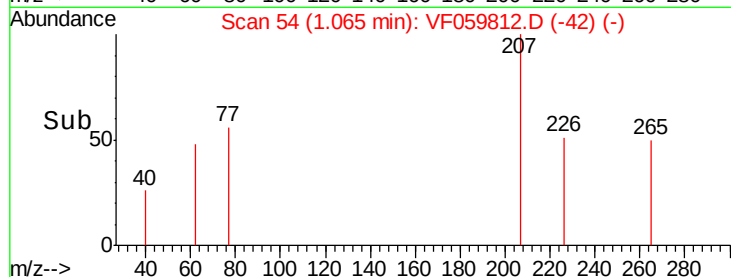
40

20

0

1.04 1.06 1.08

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.33 min Scan# 81

Delta R.T. -0.08 min

Lab File: VF059812.D

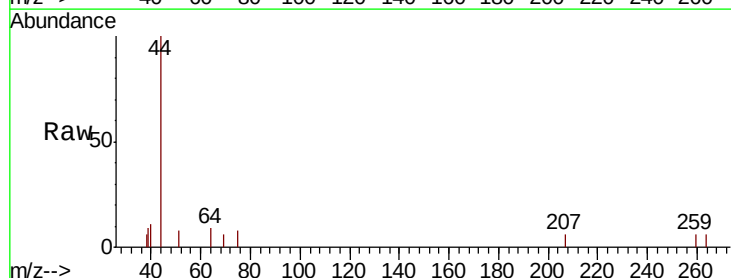
Acq: 2 Aug 2018 20:35

Tgt Ion: 64 Resp: 94

Ion Ratio Lower Upper

64 100

66 0.0 32.6 49.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.33

150

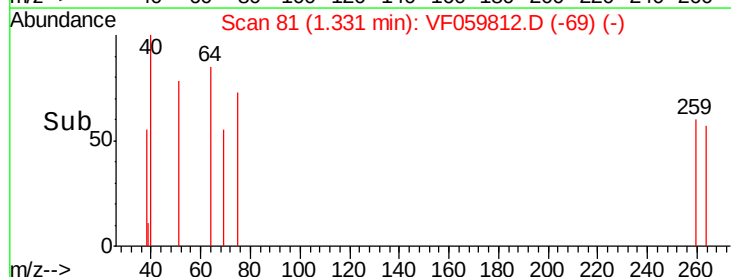
100

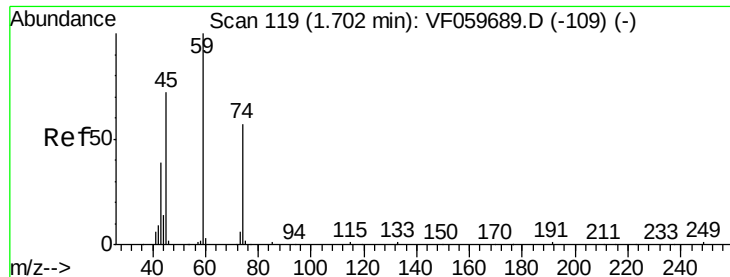
50

0

1.30 1.32 1.34 1.36

Time-->

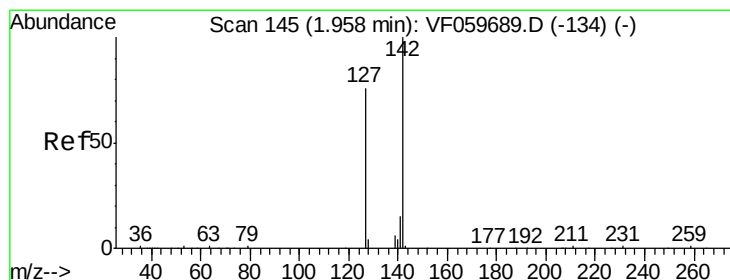
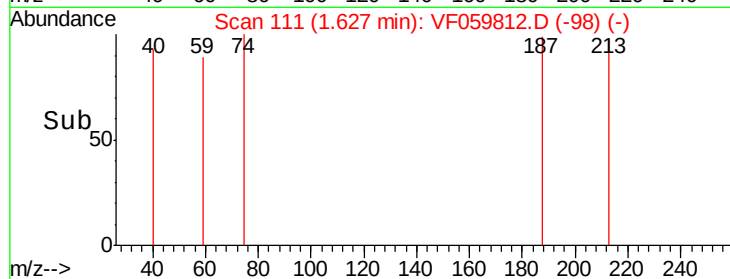
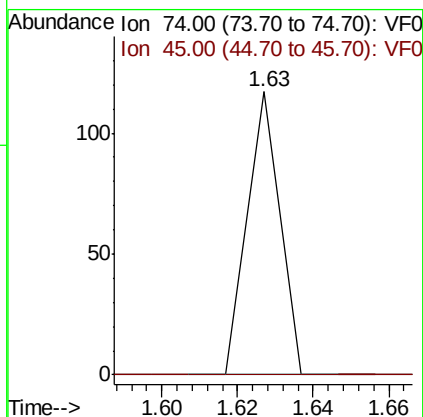
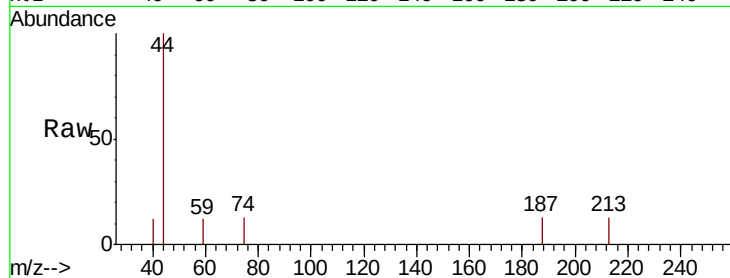




#8
Diethyl Ether
Concen: 2.593 ug/l
RT: 1.63 min Scan# 111
Delta R.T. -0.08 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

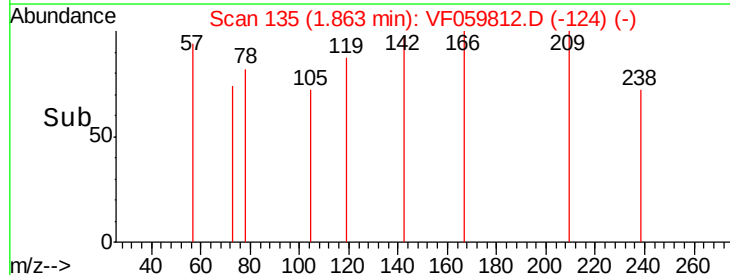
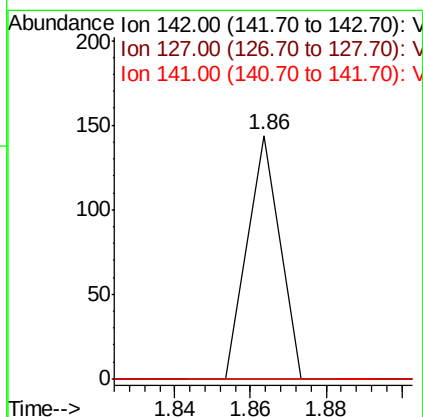
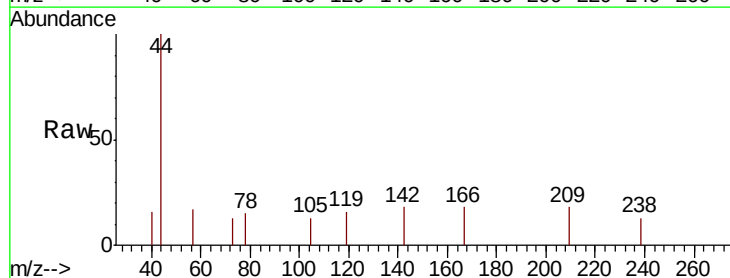
Instrument :
MSVOA_F
ClientSampled :
SB-4(7-9)

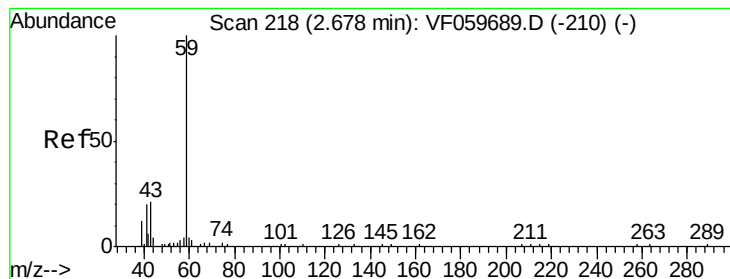
Tot Ion: 74 Resp: 69
Ion Ratio Lower Upper
74 100
45 0.0 62.7 188.2#



#10
Methyl Iodide
Concen: Below Cal
RT: 1.86 min Scan# 135
Delta R.T. -0.09 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

Tgt Ion:142 Resp: 85
Ion Ratio Lower Upper
142 100
127 0.0 60.6 91.0#
141 0.0 12.0 18.0#





#11

Tert butyl alcohol

Concen: 13.354 ug/l

RT: 2.60 min Scan# 210

Delta R.T. -0.07 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

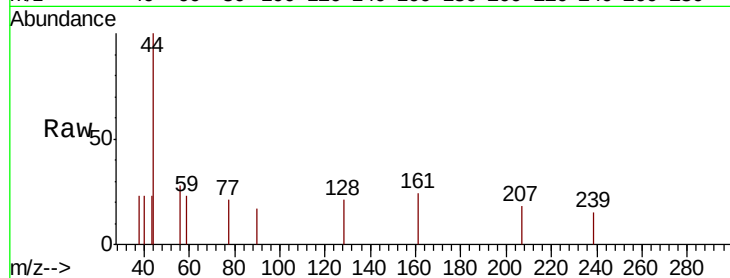
SB-4(7-9)

Tot Ion: 59 Resp: 89

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.60

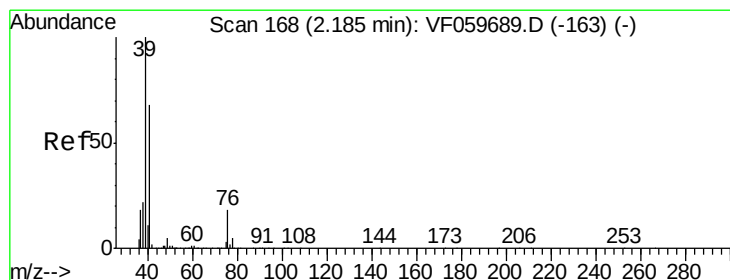
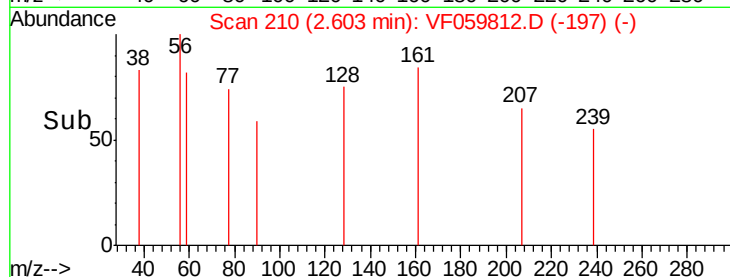
150

100

50

0

Time-->



#14

Allyl chloride

Concen: 1.426 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

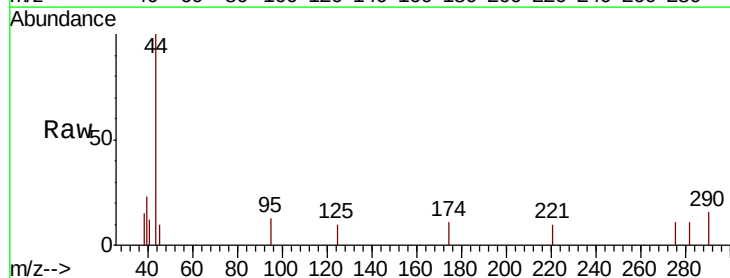
Tgt Ion: 41 Resp: 147

Ion Ratio Lower Upper

41 100

39 0.0 118.1 177.1#

76 0.0 22.0 33.0#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

200

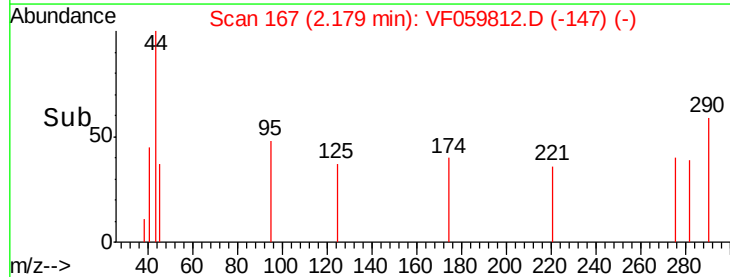
150

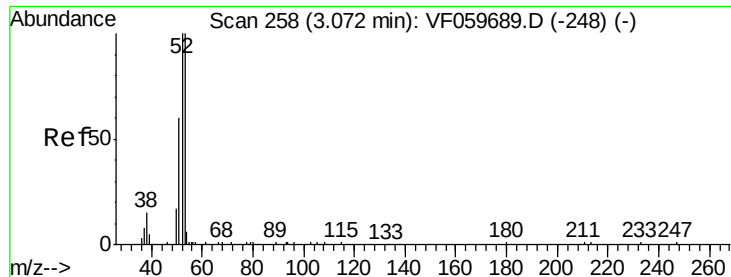
100

50

0

Time-->





#15

Acrylonitrile

Concen: 8.430 ug/l

RT: 2.98 min Scan# 248

Delta R.T. -0.09 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

SB-4(7-9)

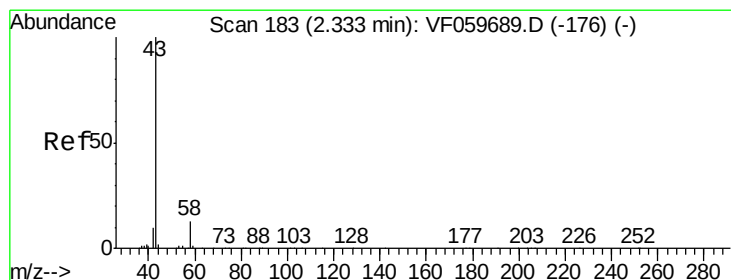
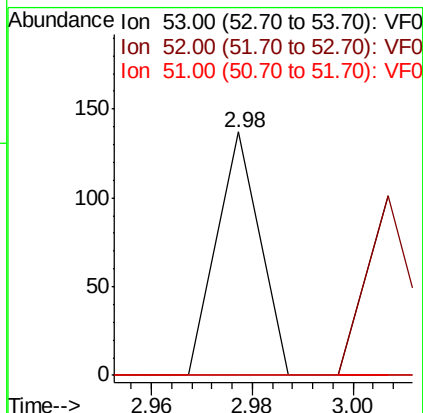
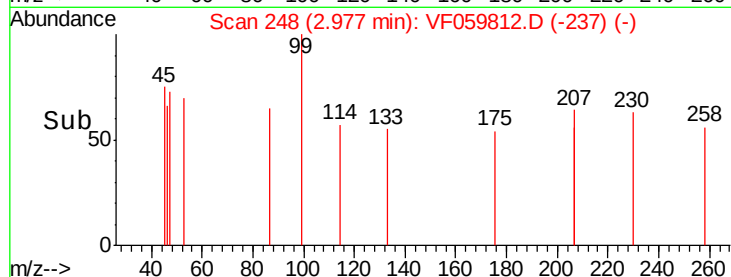
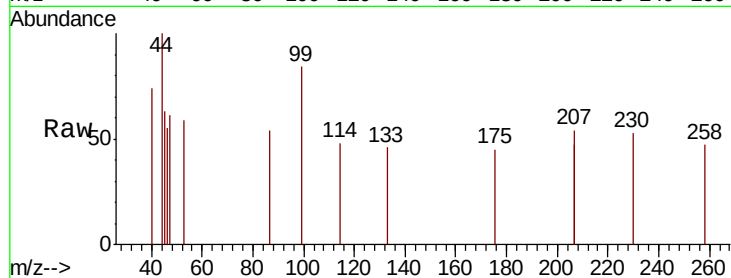
Tot Ion: 53 Resp: 81

Ion Ratio Lower Upper

53 100

52 0.0 80.3 120.5#

51 0.0 49.4 74.0#



#16

Acetone

Concen: 4.379 ug/l

RT: 2.32 min Scan# 181

Delta R.T. -0.02 min

Lab File: VF059812.D

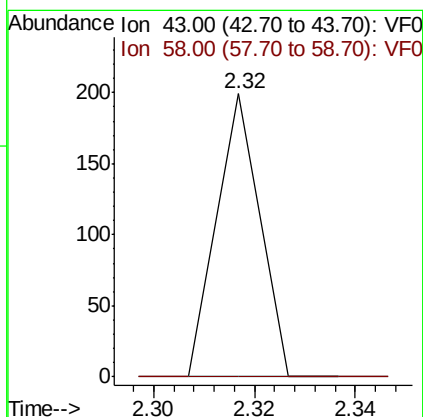
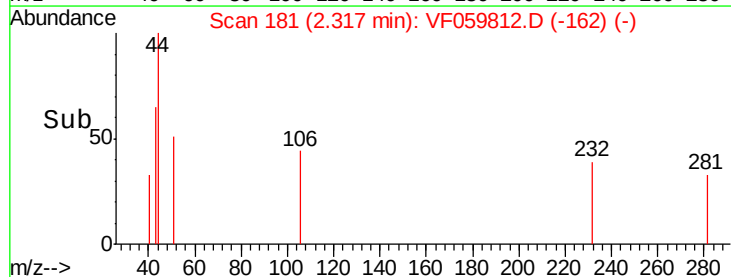
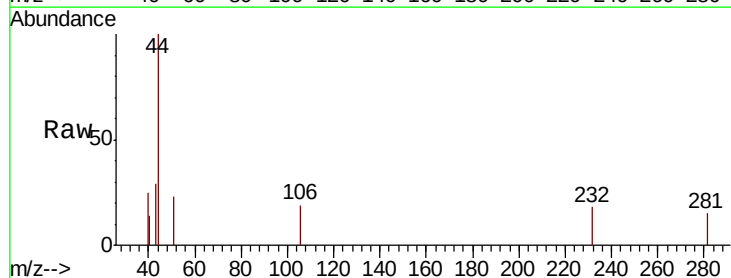
Acq: 2 Aug 2018 20:35

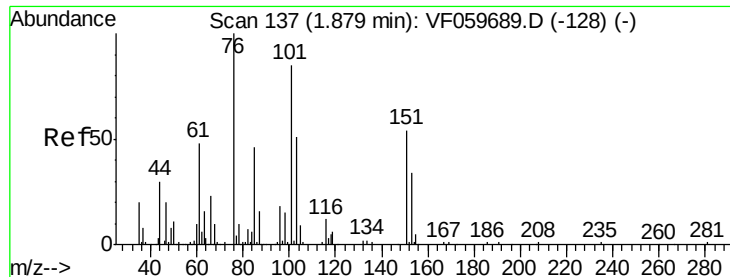
Tgt Ion: 43 Resp: 118

Ion Ratio Lower Upper

43 100

58 0.0 10.1 15.1#





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.99 min Scan# 148

Delta R.T. 0.11 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

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ClientSampleId :

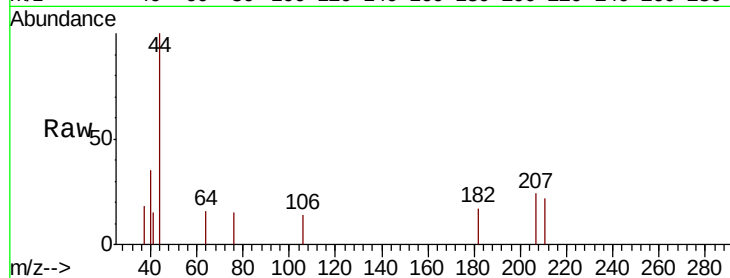
SB-4(7-9)

Tot Ion: 76 Resp: 65

Ion Ratio Lower Upper

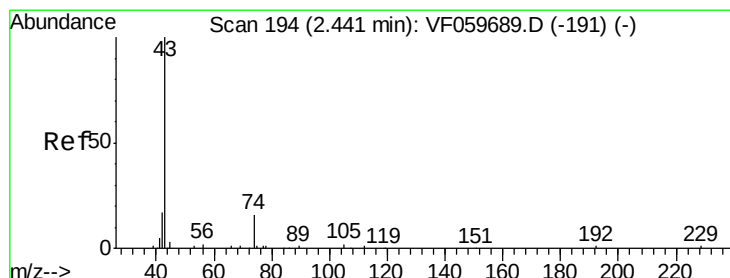
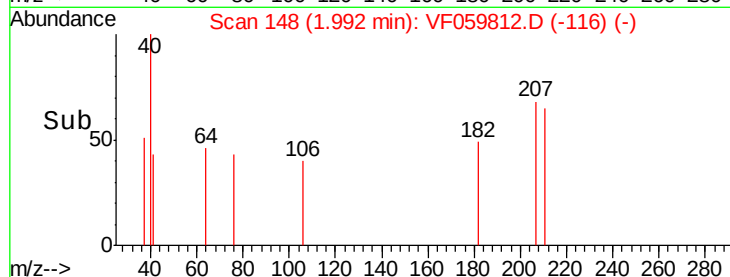
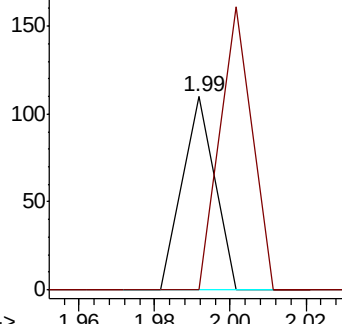
76 100

78 0.0 8.9 13.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.47 min Scan# 197

Delta R.T. 0.03 min

Lab File: VF059812.D

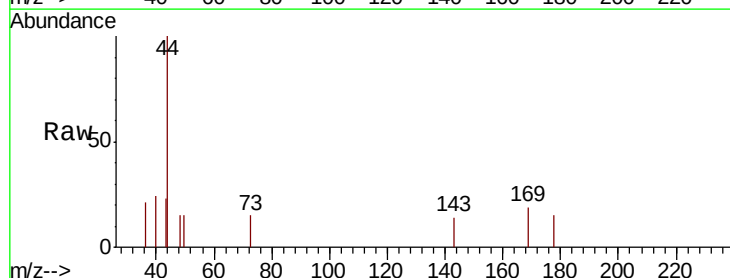
Acq: 2 Aug 2018 20:35

Tgt Ion: 43 Resp: 105

Ion Ratio Lower Upper

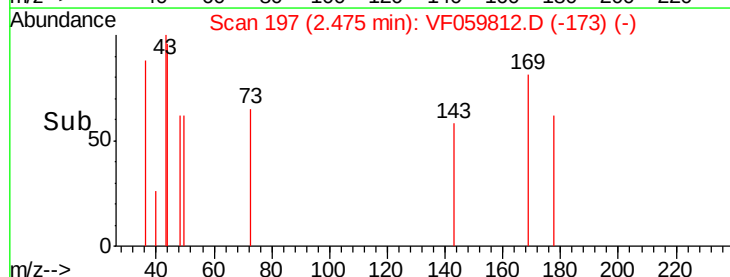
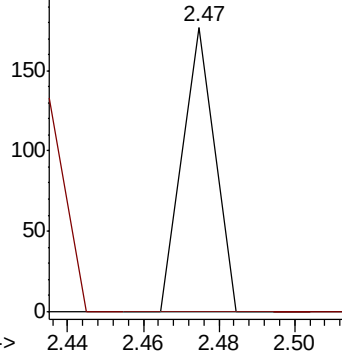
43 100

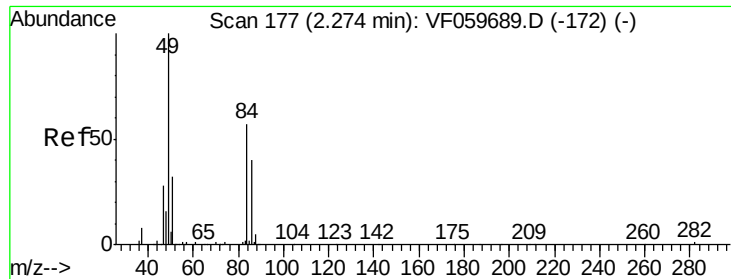
74 0.0 11.8 17.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

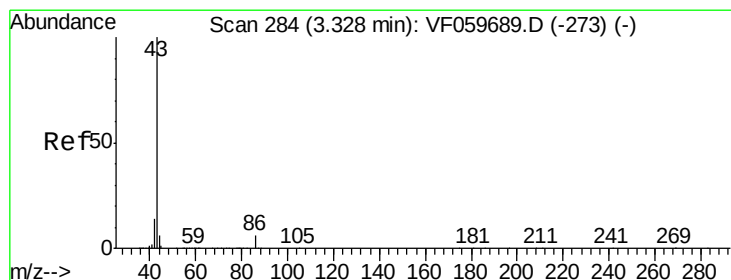
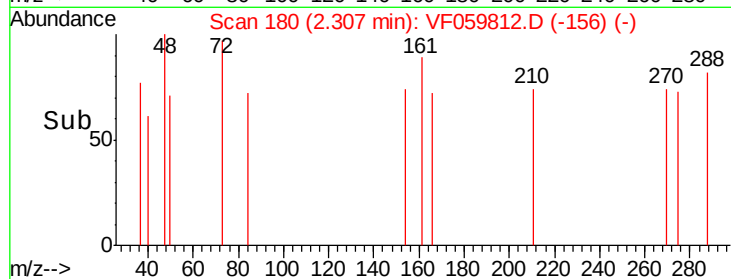
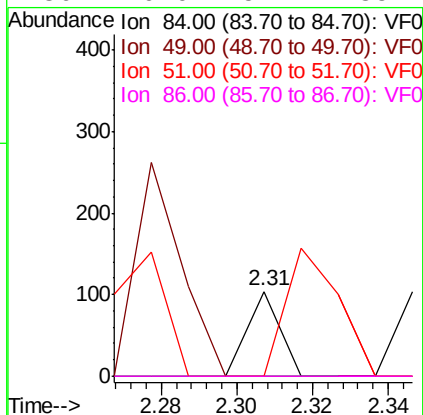
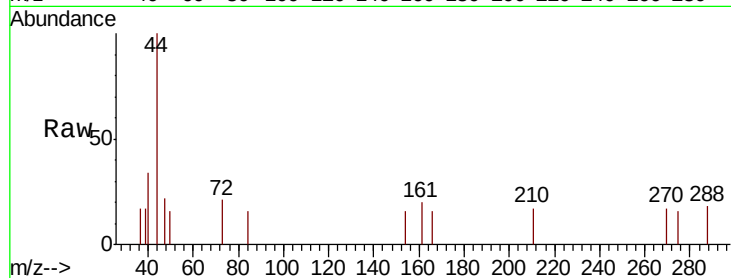




#20
Methylene Chloride
Concen: Below Cal
RT: 2.31 min Scan# 180
Delta R.T. 0.03 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

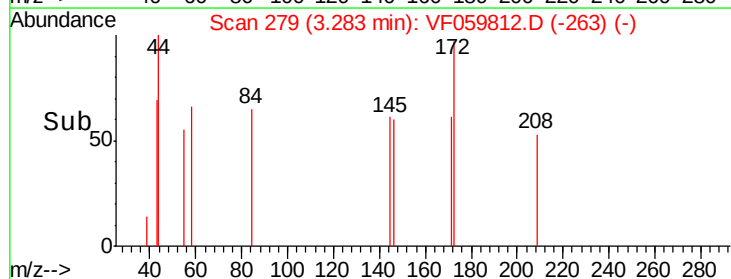
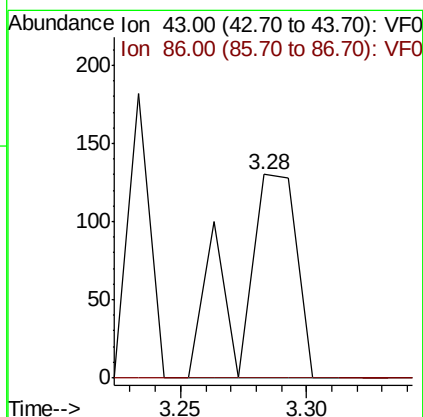
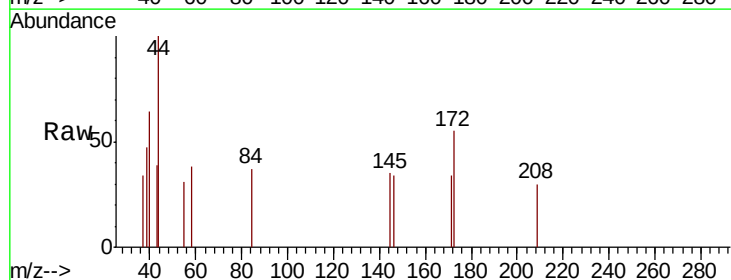
Instrument :
MSVOA_F
ClientSampleId :
SB-4(7-9)

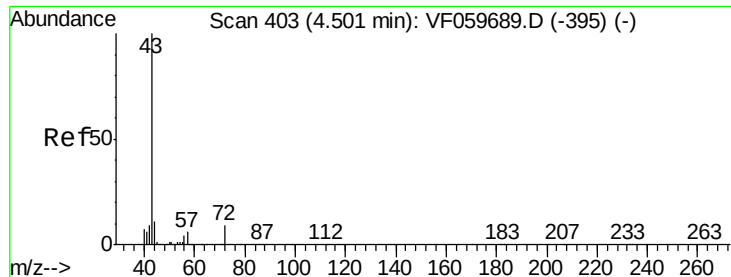
Tot Ion: 84 Resp: 62
Ion Ratio Lower Upper
84 100
49 0.0 142.2 213.4#
51 0.0 46.2 69.2#
86 0.0 57.1 85.7#



#23
Vinyl Acetate
Concen: 1.892 ug/l
RT: 3.28 min Scan# 279
Delta R.T. -0.05 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

Tgt Ion: 43 Resp: 212
Ion Ratio Lower Upper
43 100
86 0.0 4.6 6.8#





#25

2-Butanone

Concen: 5.687 ug/l

RT: 4.52 min Scan# 405

Delta R.T. 0.02 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

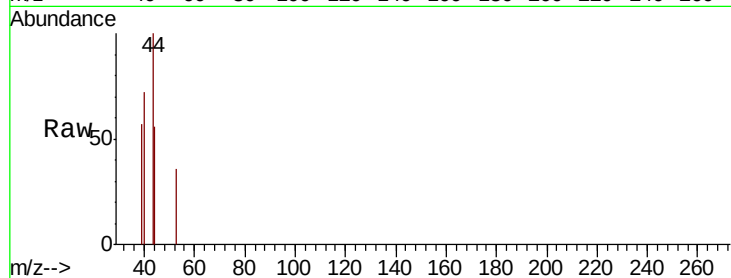
SB-4(7-9)

Tot Ion: 43 Resp: 171

Ion Ratio Lower Upper

43 100

72 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.52

300

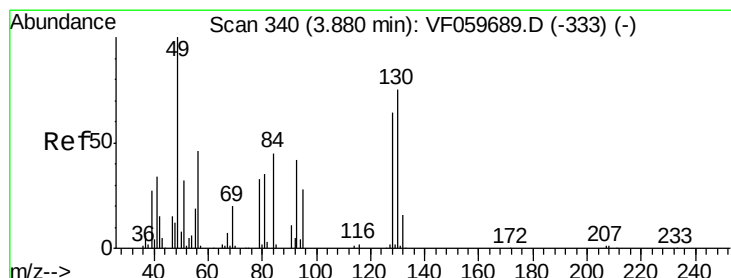
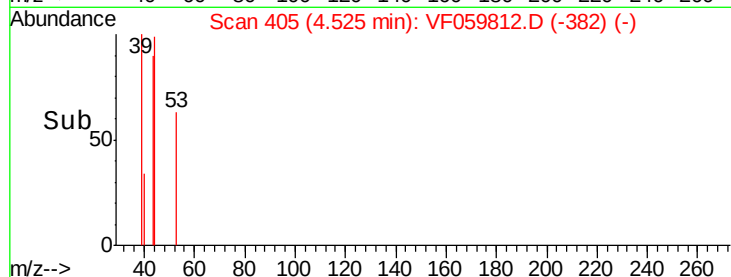
200

100

0

4.50 4.52 4.54

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 3.96 min Scan# 348

Delta R.T. 0.08 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

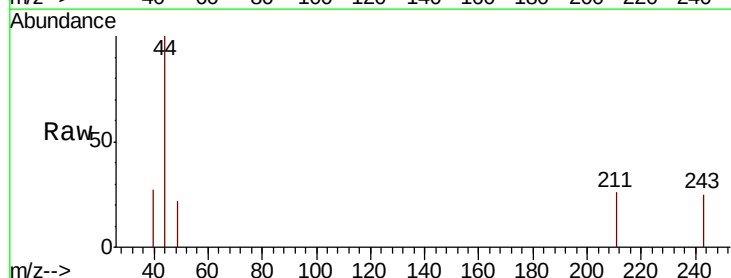
Tgt Ion: 49 Resp: 64

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.8

130 0.0 59.6 89.4#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

150

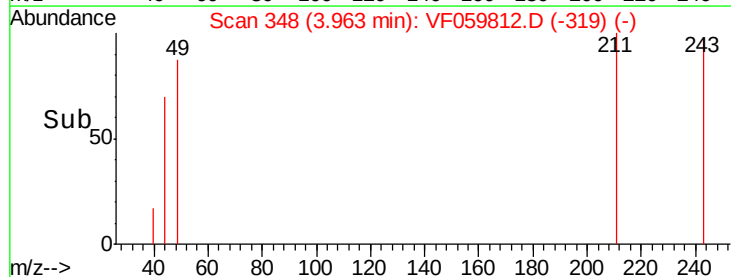
100

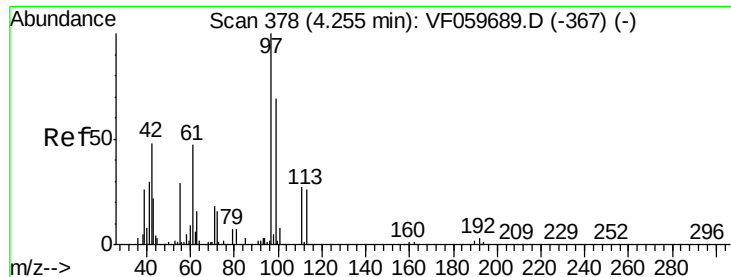
50

0

3.94 3.96 3.98

Time-->

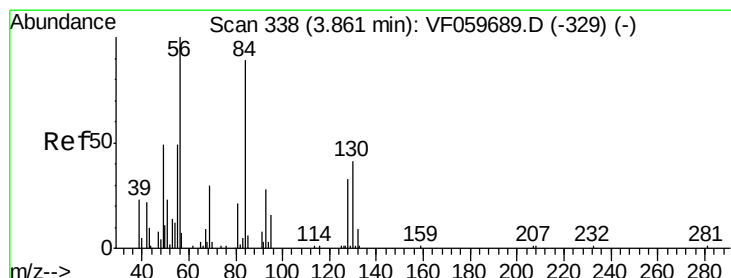
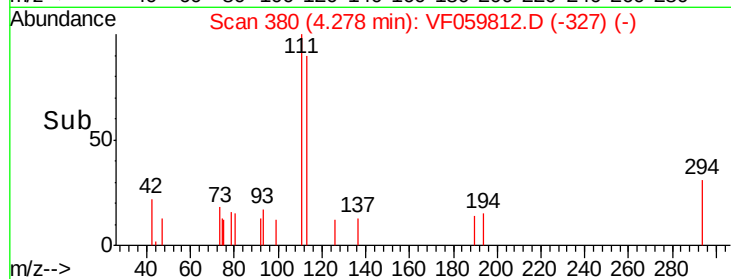
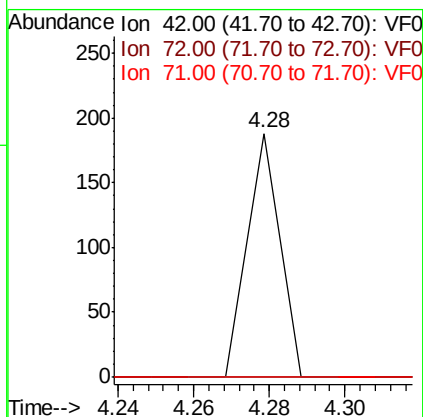
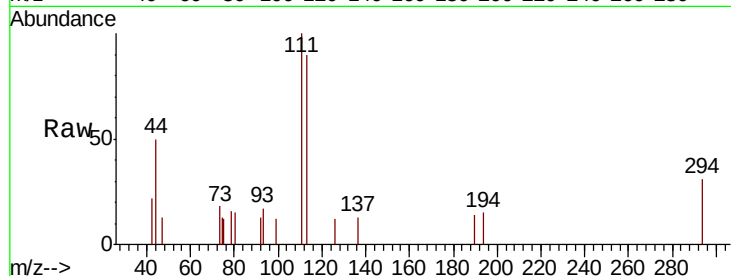




#29
Tetrahydrofuran
Concen: 9.605 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.02 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

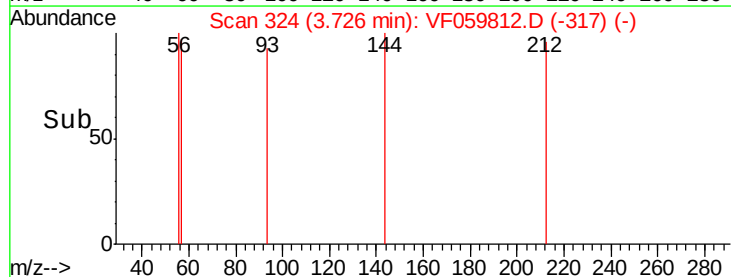
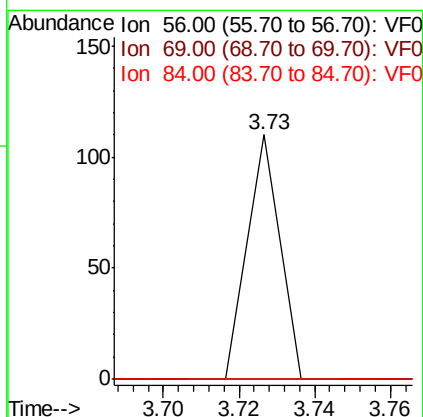
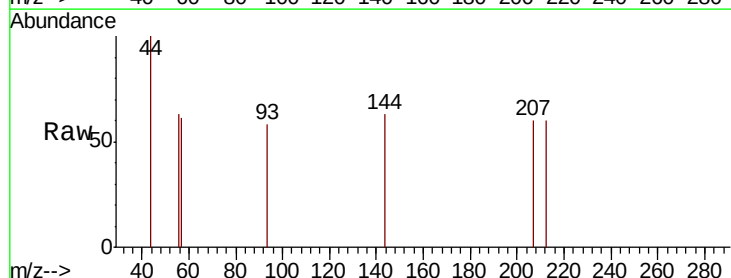
Instrument :
MSVOA_F
ClientSampleId :
SB-4(7-9)

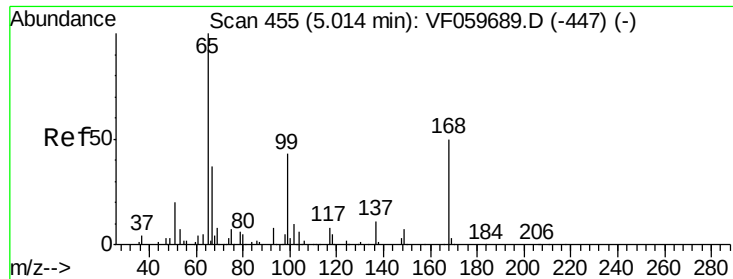
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.0	40.6#
71	0.0	29.7	44.5#



#31
Cyclohexane
Concen: Below Cal
RT: 3.73 min Scan# 324
Delta R.T. -0.13 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

Tgt Ion	Ratio	Lower	Upper
56	100		
69	0.0	23.7	35.5#
84	0.0	71.1	106.7#

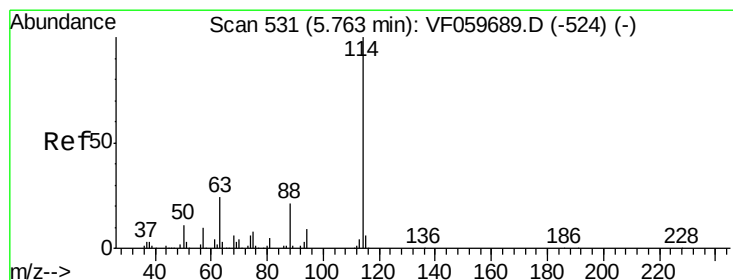
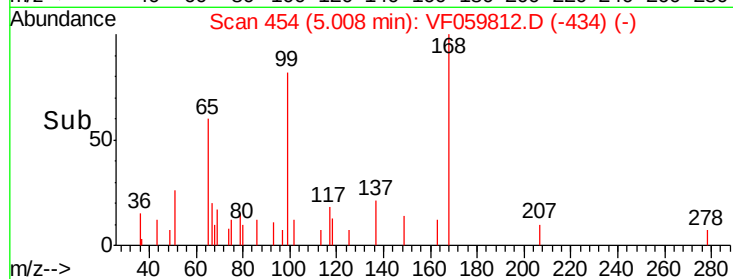
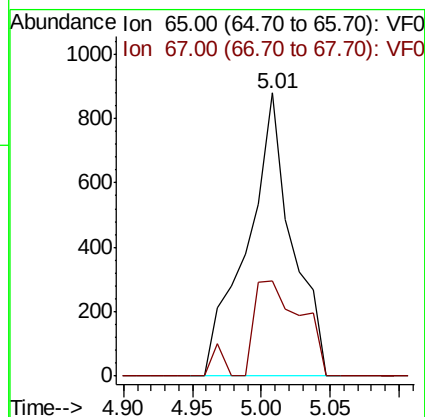
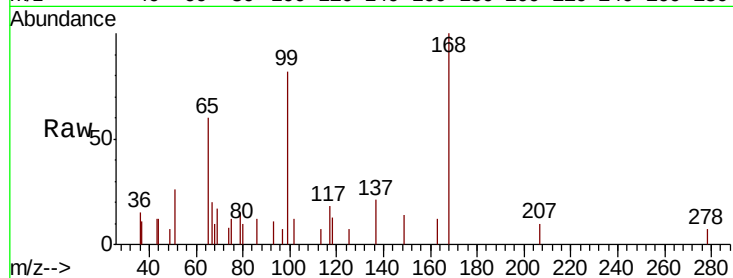




#33
 1,2-Dichloroethane-d4
 Concen: 13.278 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.01 min
 Lab File: VF059812.D
 Acq: 2 Aug 2018 20:35

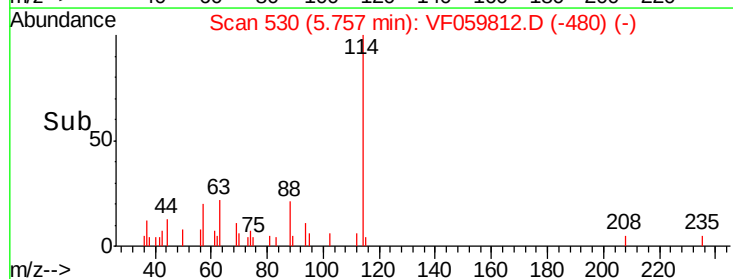
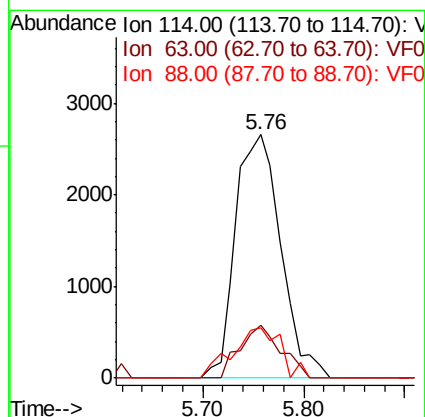
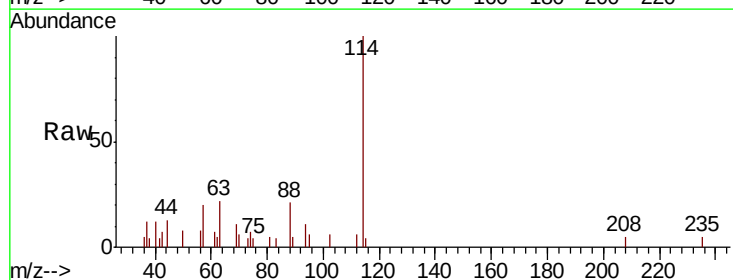
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-4(7-9)

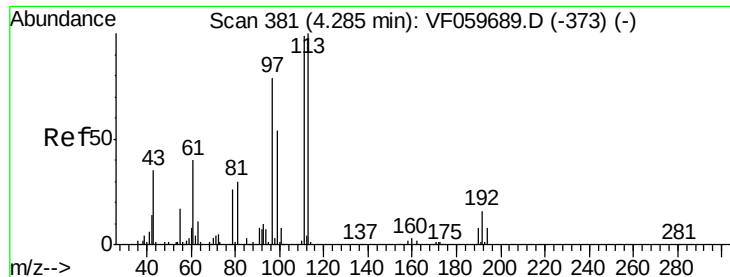
Tot Ion: 65 Resp: 1989
 Ion Ratio Lower Upper
 65 100
 67 33.7 0.0 84.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VF059812.D
 Acq: 2 Aug 2018 20:35

Tgt Ion: 114 Resp: 8294
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 47.4
 88 20.7 0.0 41.2





#35

Dibromofluoromethane

Concen: 27.012 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

SB-4(7-9)

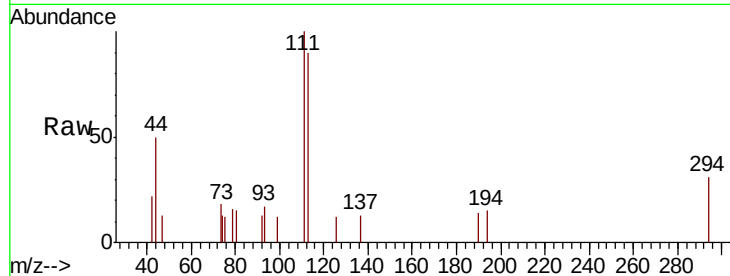
Tot Ion:113 Resp: 2327

Ion Ratio Lower Upper

113 100

111 111.2 79.0 118.4

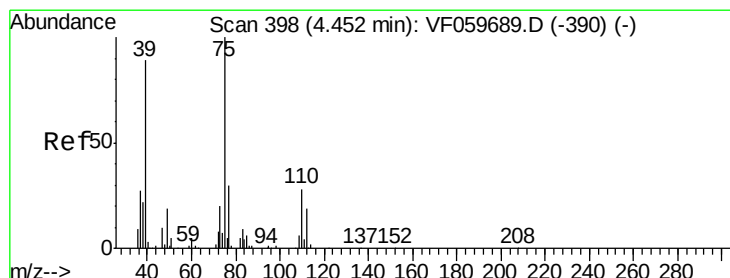
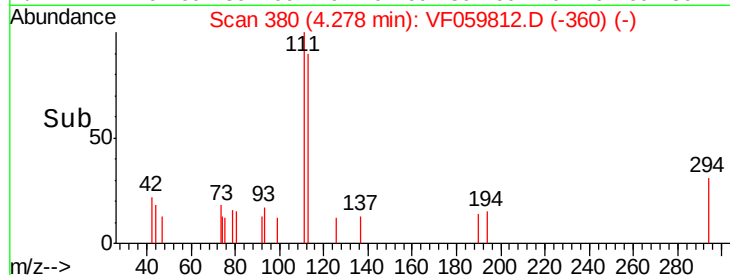
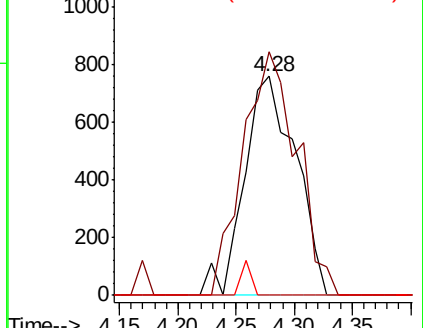
192 0.0 13.2 19.8#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: Below Cal

RT: 4.28 min Scan# 380

Delta R.T. -0.17 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

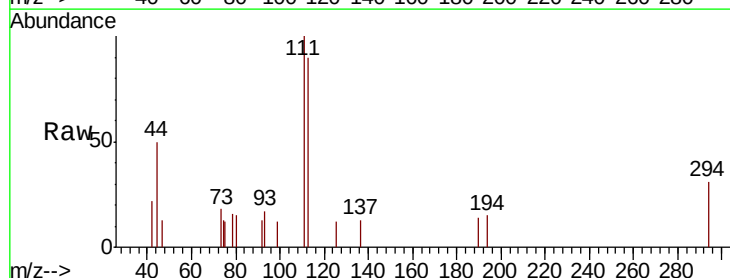
Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

110 0.0 14.0 41.9#

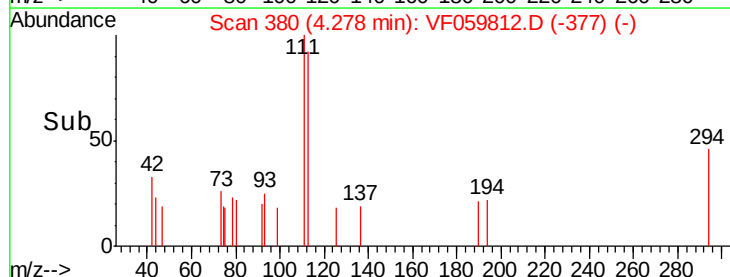
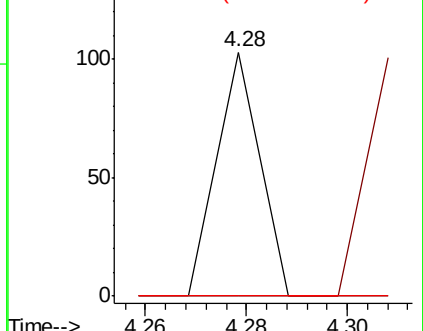
77 0.0 24.2 36.2#

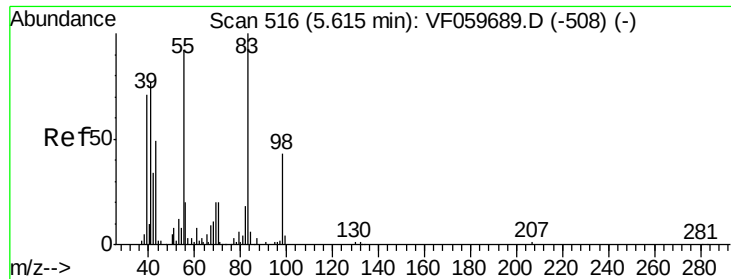


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

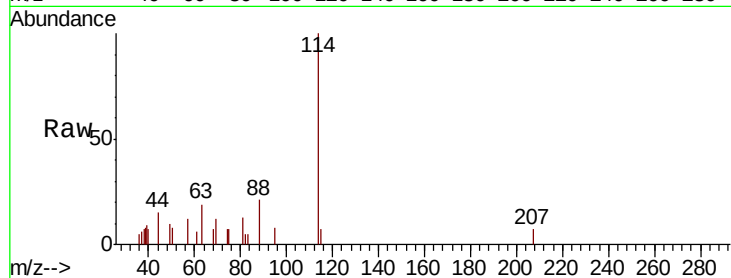




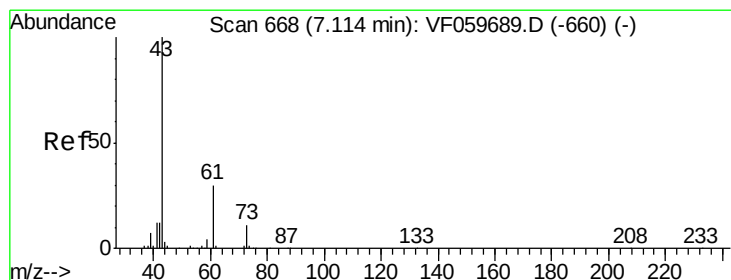
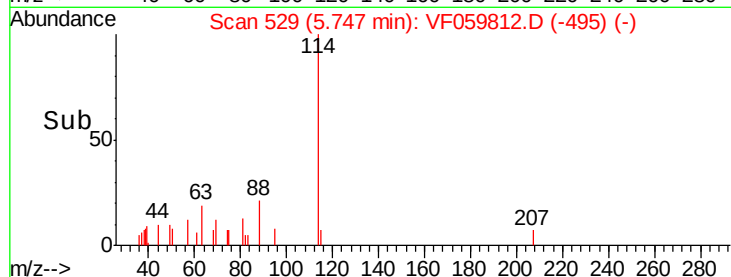
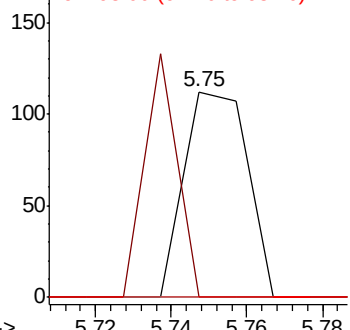
#39
Methylcyclohexane
Concen: Below Cal
RT: 5.75 min Scan# 529
Delta R.T. 0.13 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

Instrument :
MSVOA_F
ClientSampleId :
SB-4(7-9)

Tot Ion	Ratio	Lower	Upper
83	100		
55	0.0	73.4	110.2#
98	0.0	34.2	51.4#

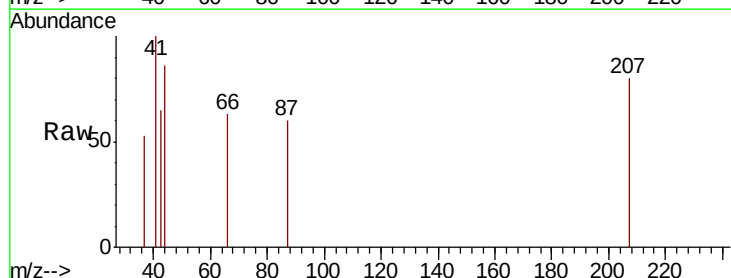


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

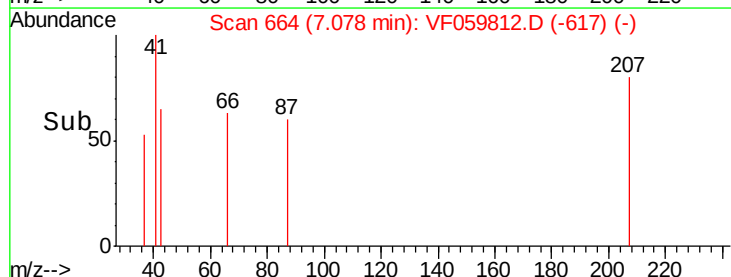
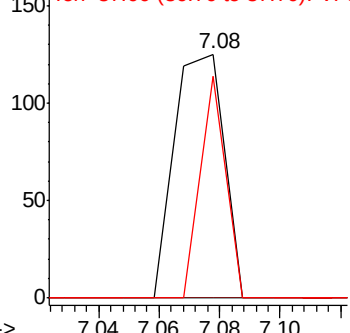


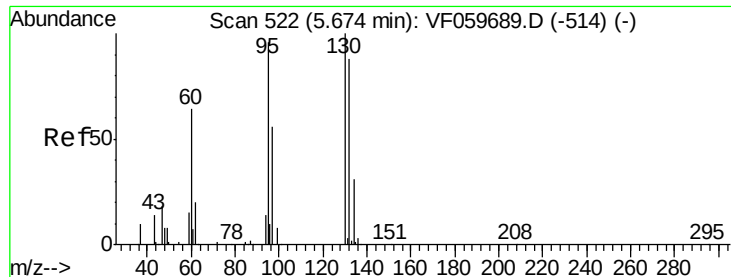
#43
Isopropyl Acetate
Concen: 2.904 ug/l
RT: 7.08 min Scan# 664
Delta R.T. -0.04 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.8	35.8#
87	91.2	0.6	1.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0





#44

Trichloroethene

Concen: Below Cal

RT: 5.65 min Scan# 519

Delta R.T. -0.03 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

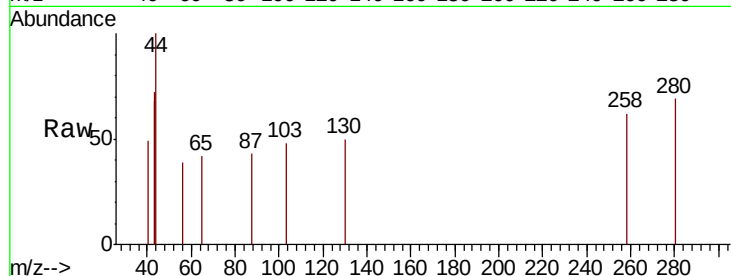
SB-4(7-9)

Tot Ion:130 Resp: 145

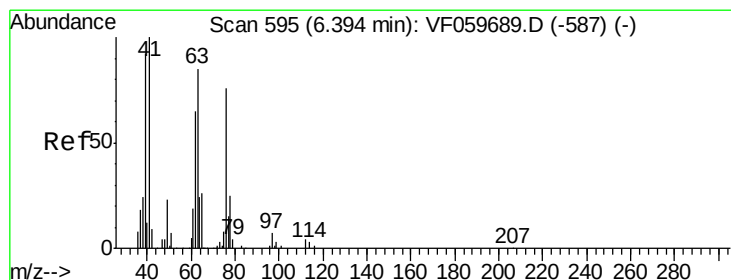
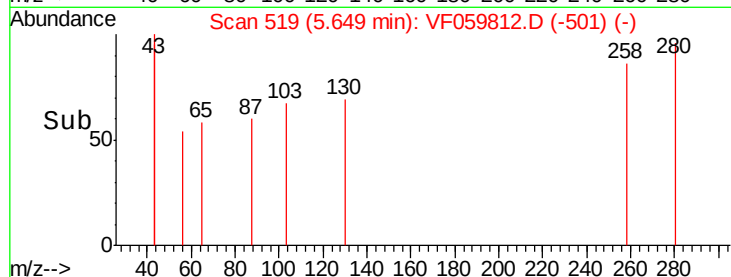
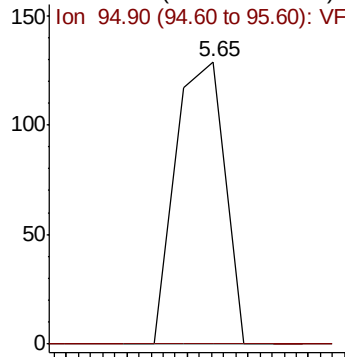
Ion Ratio Lower Upper

130 100

95 0.0 0.0 191.0



Abundance Ion 129.90 (129.60 to 130.60): VF0



#45

1,2-Dichloropropane

Concen: 2.012 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF059812.D

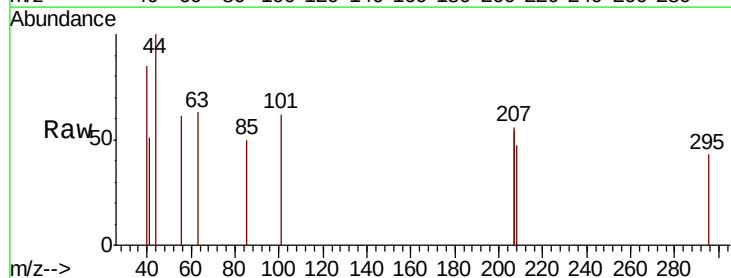
Acq: 2 Aug 2018 20:35

Tgt Ion: 63 Resp: 89

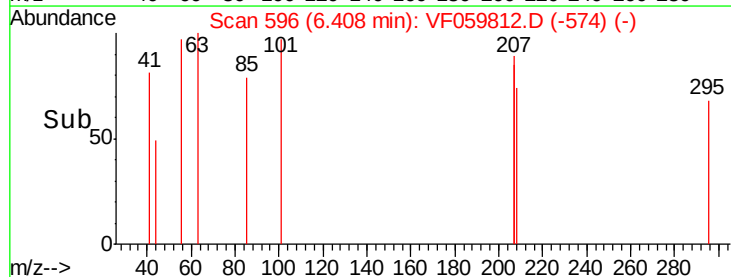
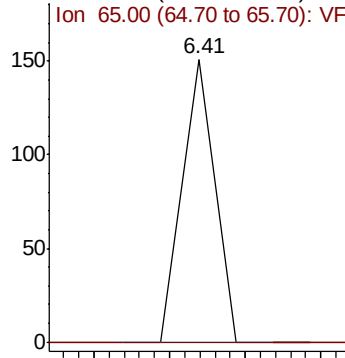
Ion Ratio Lower Upper

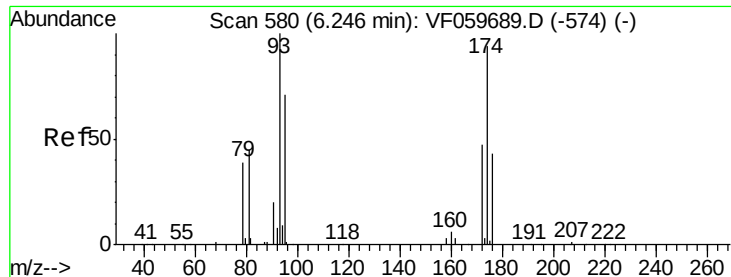
63 100

65 0.0 25.2 37.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0





#46

Dibromomethane

Concen: 1.643 ug/l

RT: 6.17 min Scan# 572

Delta R.T. -0.08 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

SB-4(7-9)

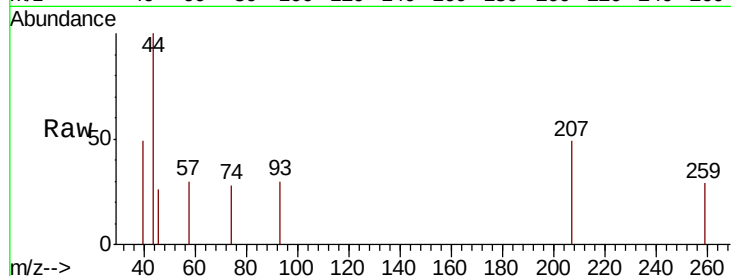
Tot Ion: 93 Resp: 69

Ion Ratio Lower Upper

93 100

95 0.0 57.1 85.7#

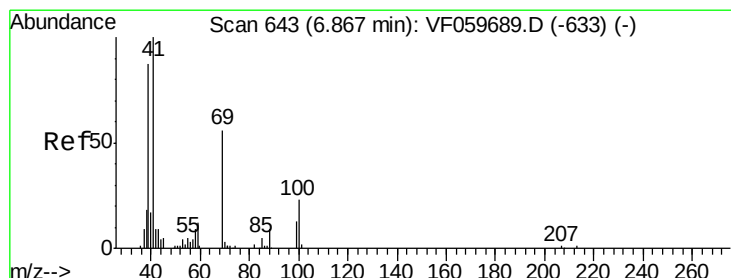
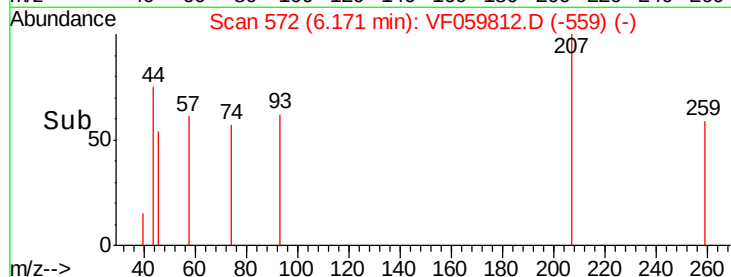
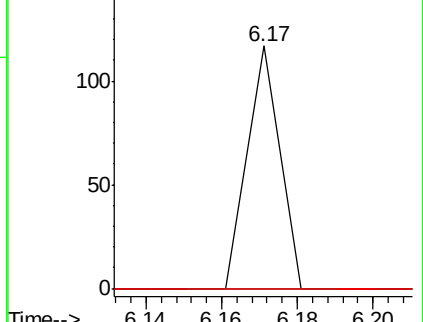
174 0.0 74.8 112.2#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V



#48

Methyl methacrylate

Concen: 4.664 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.00 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

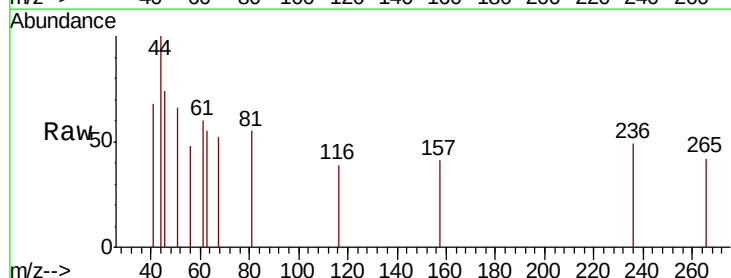
Tgt Ion: 41 Resp: 174

Ion Ratio Lower Upper

41 100

69 0.0 44.4 66.6#

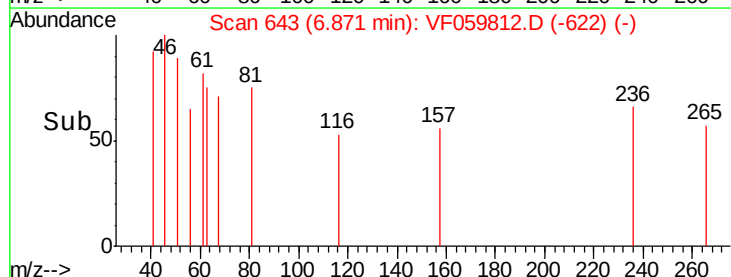
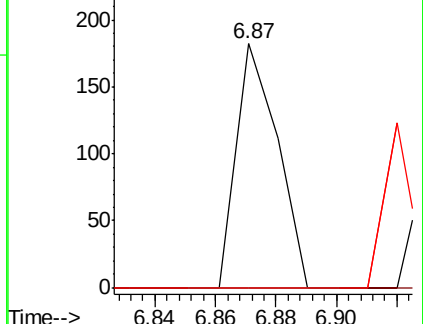
39 0.0 69.4 104.2#

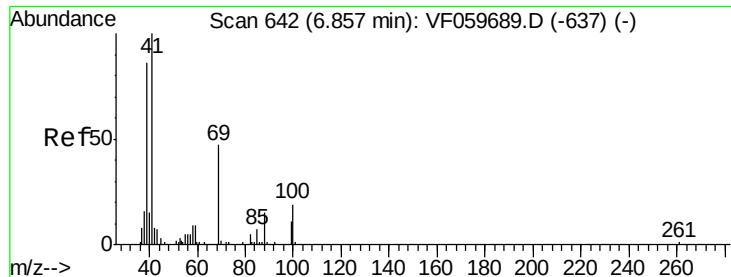


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 563.193 ug/l

RT: 6.38 min Scan# 593

Delta R.T. -0.48 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

SB-4(7-9)

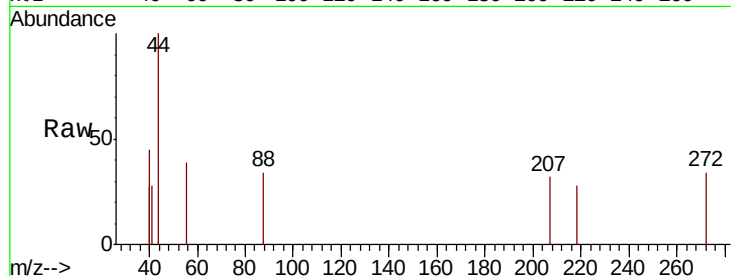
Tot Ion: 88 Resp: 137

Ion Ratio Lower Upper

88 100

43 0.0 45.2 67.8#

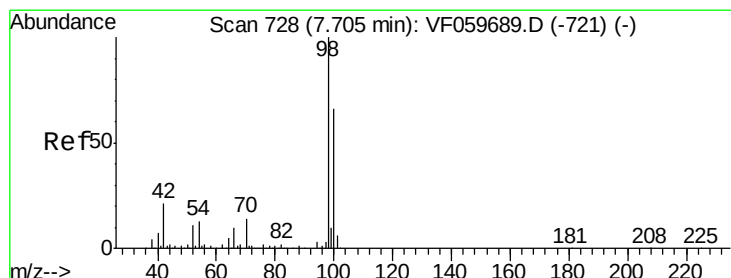
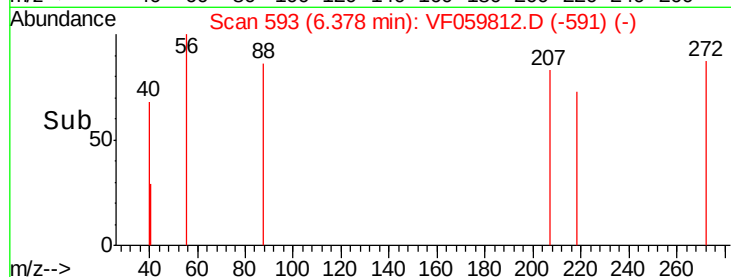
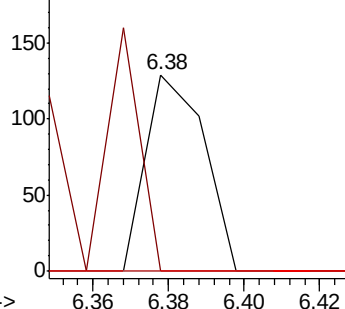
58 0.0 49.0 73.6#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 29.877 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.01 min

Lab File: VF059812.D

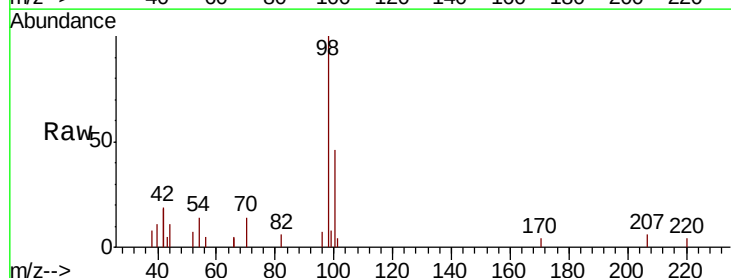
Acq: 2 Aug 2018 20:35

Tgt Ion: 98 Resp: 6002

Ion Ratio Lower Upper

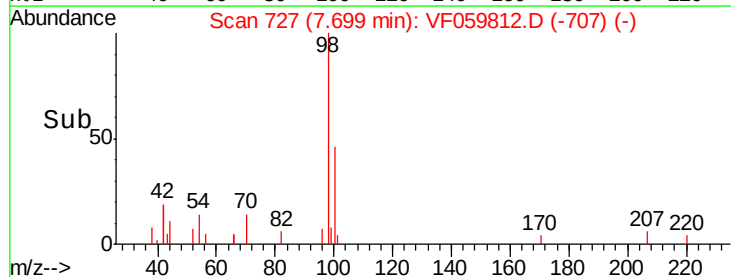
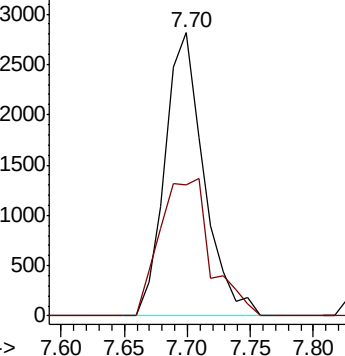
98 100

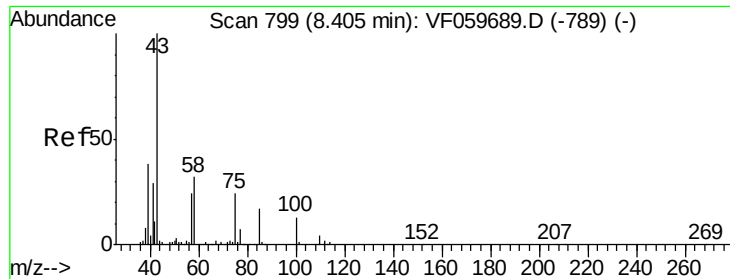
100 46.1 52.8 79.2#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 13.121 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.02 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

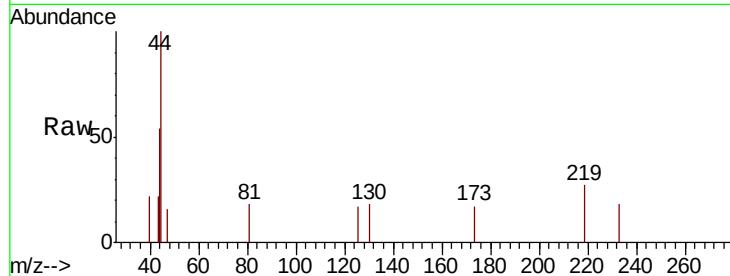
SB-4(7-9)

Tot Ion: 43 Resp: 495

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.39

400

300

200

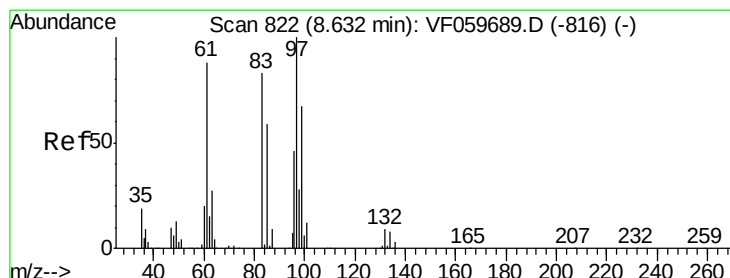
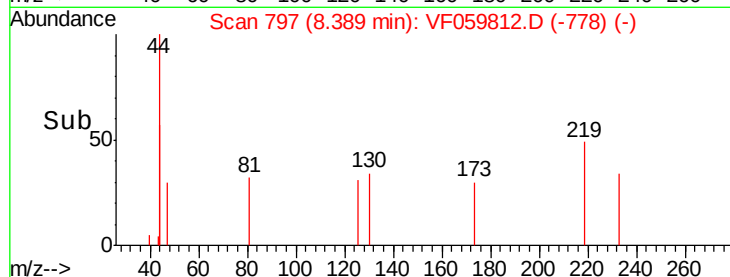
100

0

8.35

8.40

Time-->



#55

1,1,2-Trichloroethane

Concen: 1.411 ug/l

RT: 8.61 min Scan# 819

Delta R.T. -0.03 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Tgt Ion: 97 Resp: 64

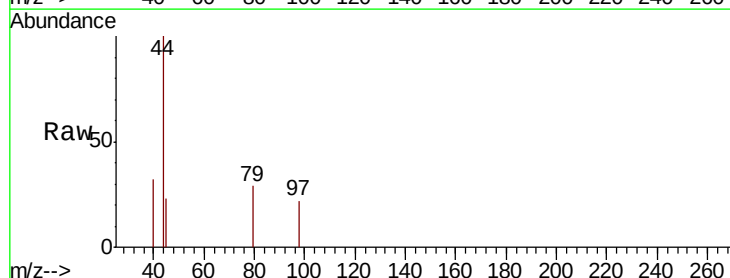
Ion Ratio Lower Upper

97 100

83 0.0 66.6 100.0#

85 0.0 47.4 71.0#

99 0.0 53.2 79.8#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0

200

150

100

50

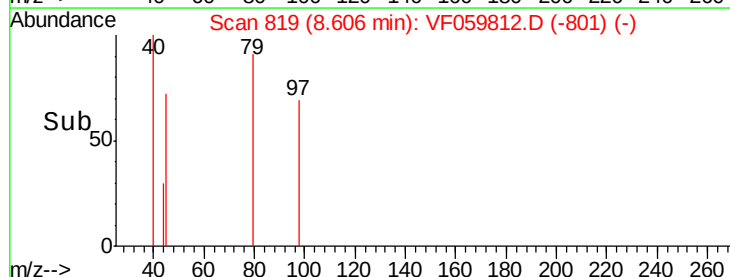
0

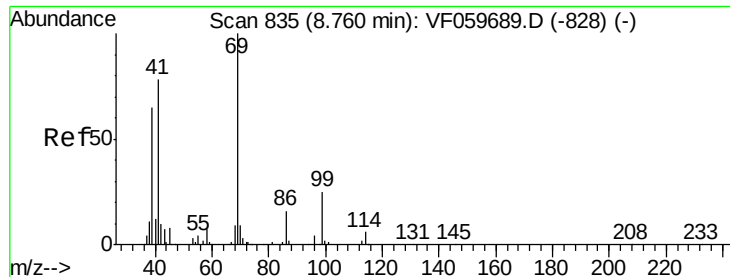
8.58

8.60

8.62

Time-->





#56

Ethyl methacrylate

Concen: 1.311 ug/l

RT: 8.88 min Scan# 847

Delta R.T. 0.12 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

SB-4(7-9)

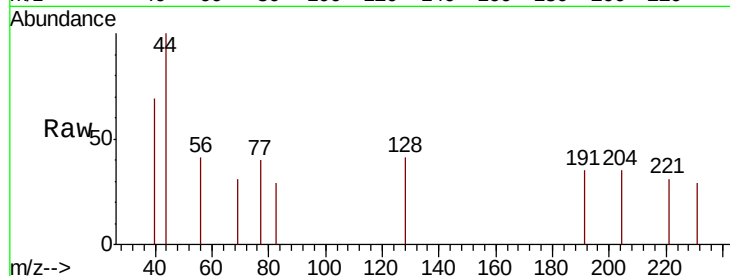
Tot Ion: 69 Resp: 62

Ion Ratio Lower Upper

69 100

41 0.0 62.3 93.5#

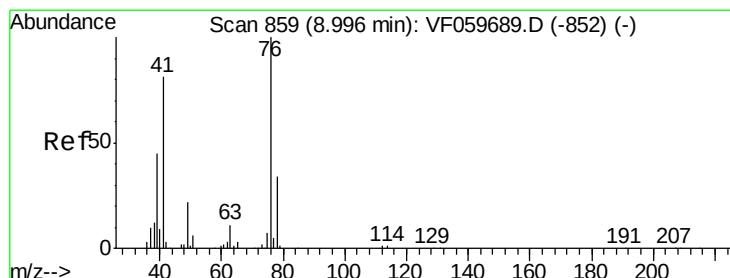
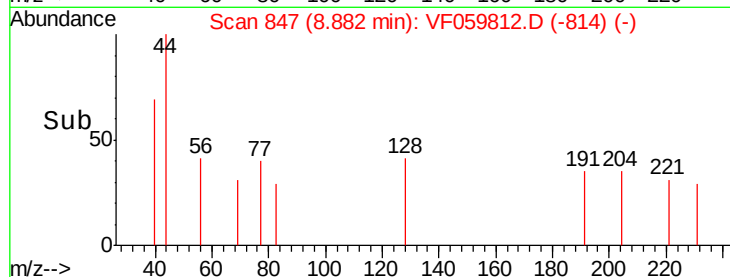
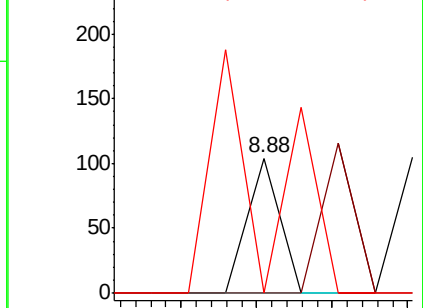
39 0.0 52.4 78.6#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#57

1,3-Dichloropropane

Concen: 1.298 ug/l

RT: 9.11 min Scan# 870

Delta R.T. 0.11 min

Lab File: VF059812.D

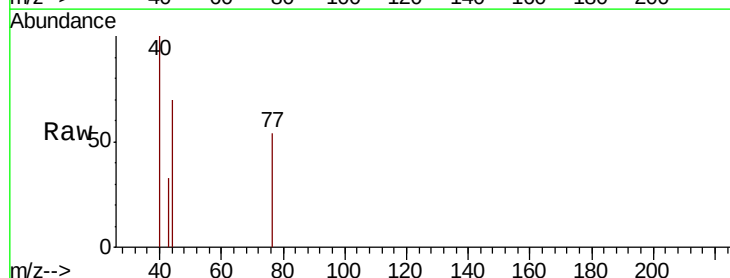
Acq: 2 Aug 2018 20:35

Tgt Ion: 76 Resp: 101

Ion Ratio Lower Upper

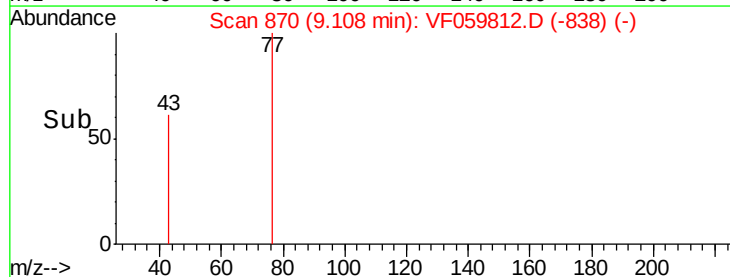
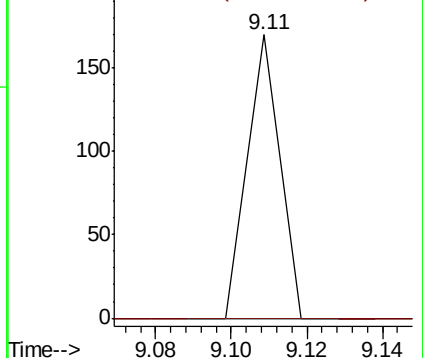
76 100

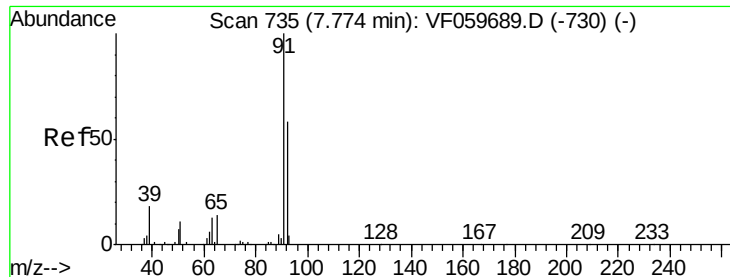
78 0.0 27.2 40.8#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 14.097 ug/l

RT: 7.83 min Scan# 740

Delta R.T. 0.05 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

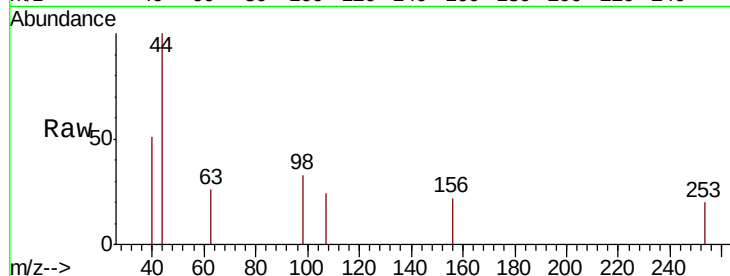
SB-4(7-9)

Tot Ion: 63 Resp: 77

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0

7.83

150

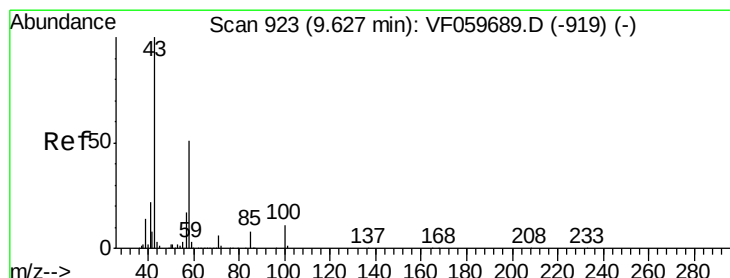
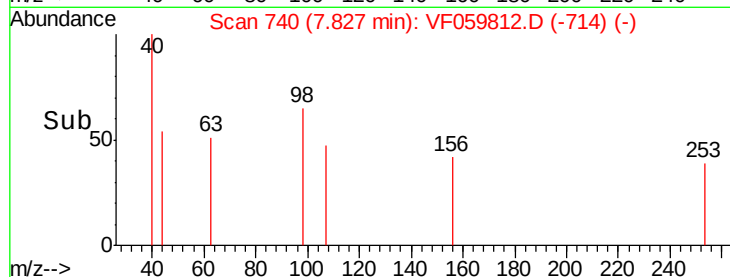
100

50

0

7.80 7.82 7.84 7.86

Time-->



#59

2-Hexanone

Concen: 4.565 ug/l

RT: 9.57 min Scan# 917

Delta R.T. -0.06 min

Lab File: VF059812.D

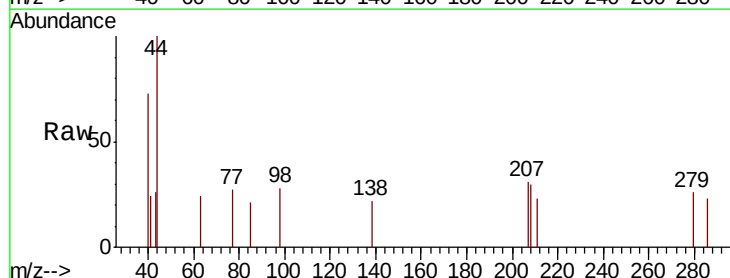
Acq: 2 Aug 2018 20:35

Tgt Ion: 43 Resp: 138

Ion Ratio Lower Upper

43 100

58 0.0 23.3 69.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.57

150

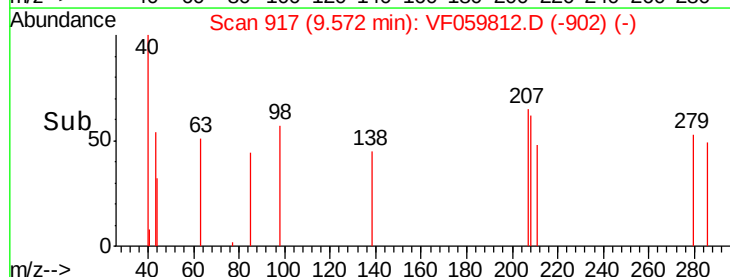
100

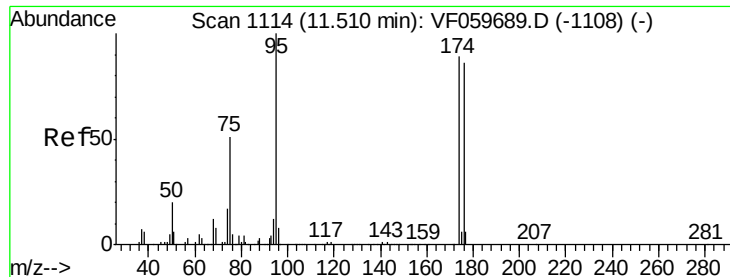
50

0

9.52 9.54 9.56 9.58 9.60

Time-->





#62

4-Bromofluorobenzene

Concen: 15.484 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

SB-4(7-9)

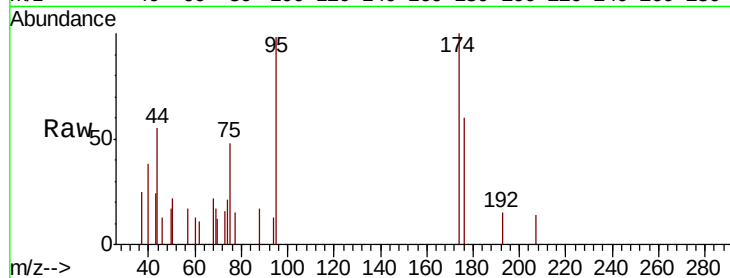
Tot Ion: 95 Resp: 1722

Ion Ratio Lower Upper

95 100

174 102.0 0.0 178.4

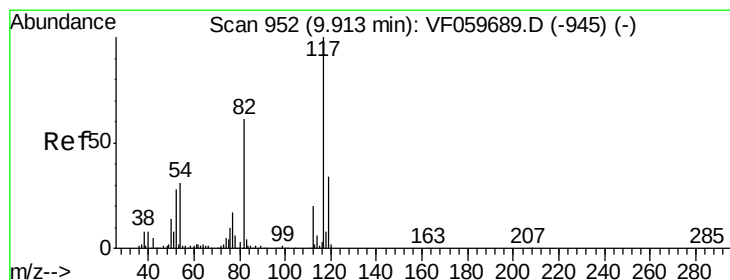
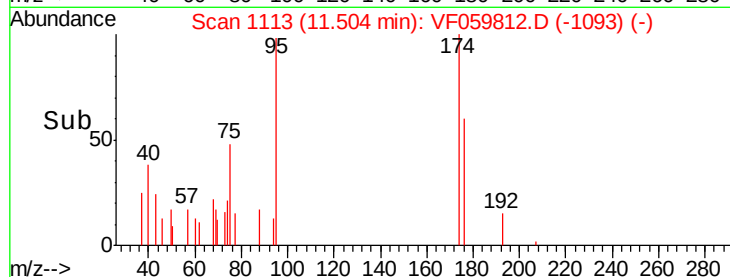
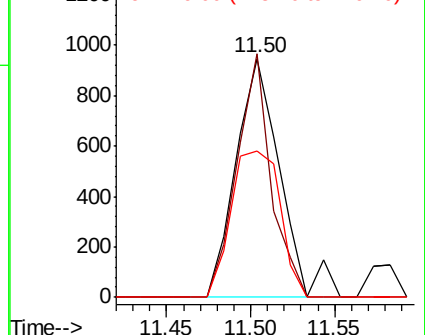
176 61.1 0.0 173.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.02 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

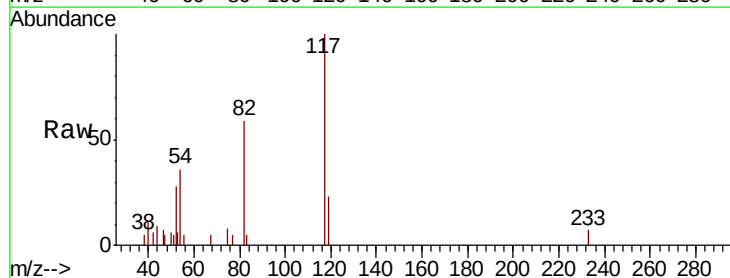
Tgt Ion: 117 Resp: 5317

Ion Ratio Lower Upper

117 100

82 58.6 49.0 73.4

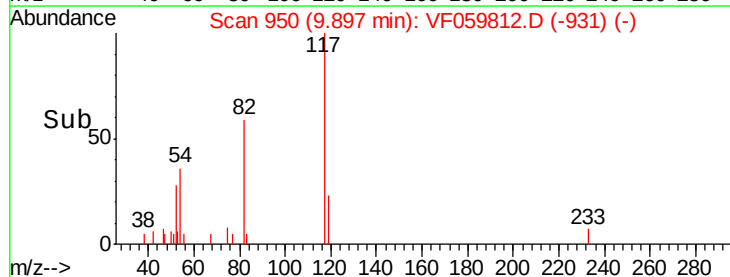
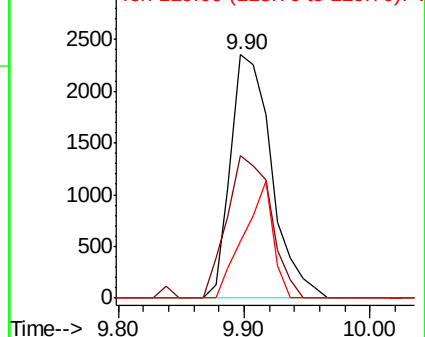
119 23.5 27.3 40.9#

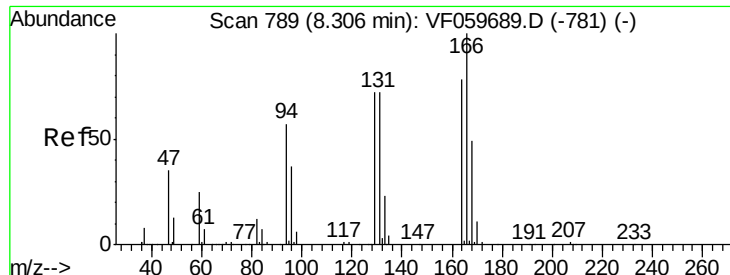


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#64

Tetrachloroethene

Concen: Below Cal

RT: 8.30 min Scan# 788

Delta R.T. -0.01 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

SB-4(7-9)

Tot Ion:164 Resp: 60

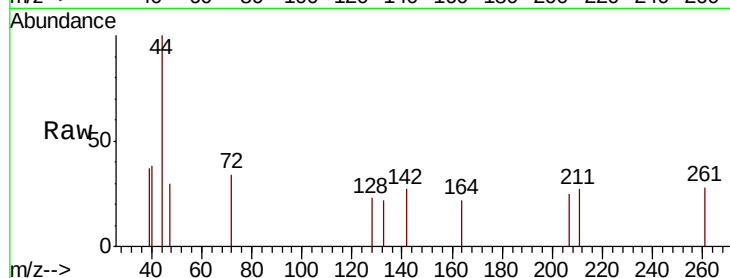
Ion Ratio Lower Upper

164 100

166 0.0 102.1 153.1#

129 0.0 73.8 110.6#

131 0.0 73.1 109.7#

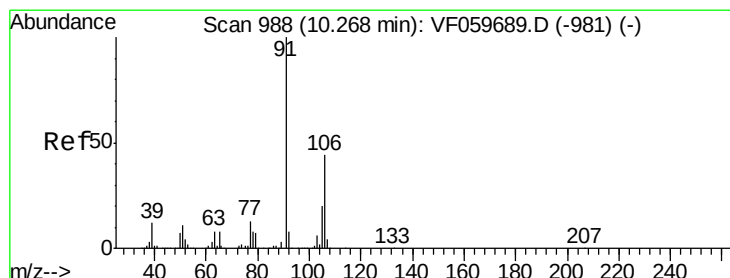
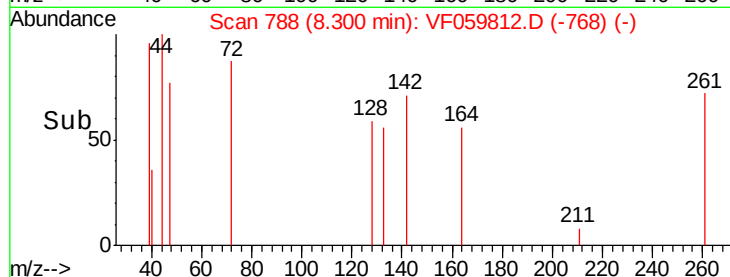
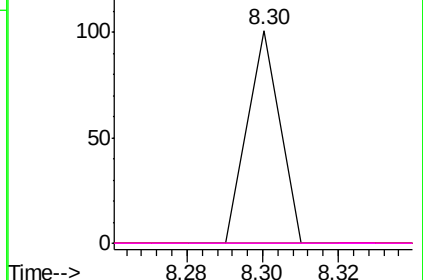


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#68

m/p-Xylenes

Concen: Below Cal

RT: 10.12 min Scan# 973

Delta R.T. -0.14 min

Lab File: VF059812.D

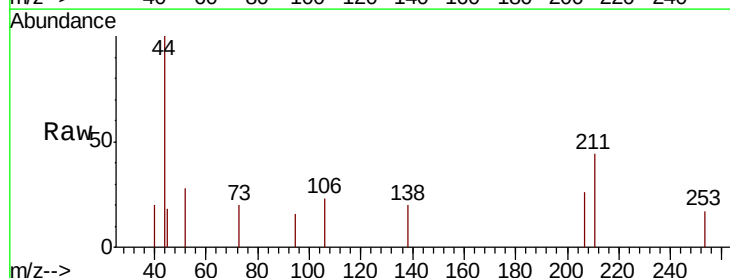
Acq: 2 Aug 2018 20:35

Tgt Ion:106 Resp: 84

Ion Ratio Lower Upper

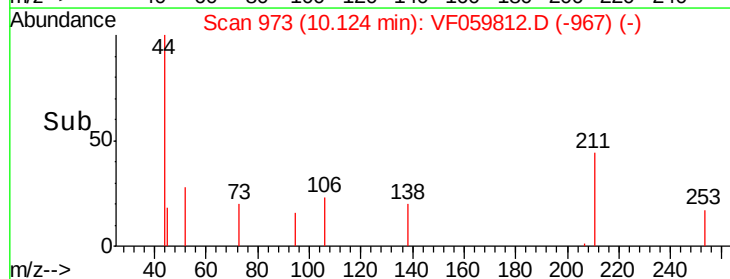
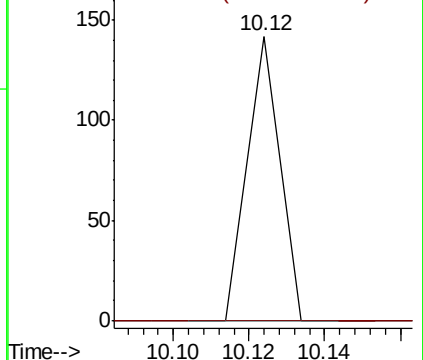
106 100

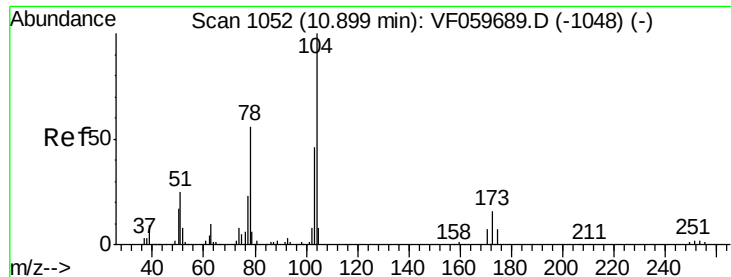
91 0.0 181.7 272.5#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#70

Stvrene

Concen: 1.597 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampled :

SB-4(7-9)

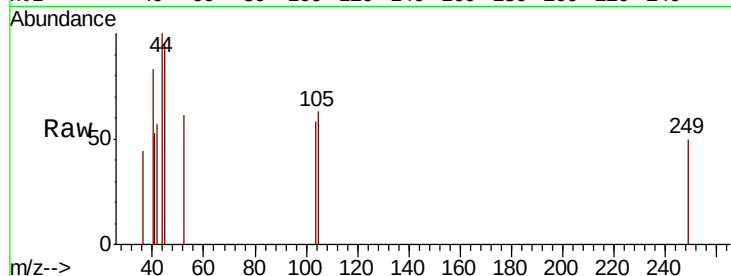
Tot Ion:104 Resp: 164

Ion Ratio Lower Upper

104 100

78 0.0 45.3 67.9#

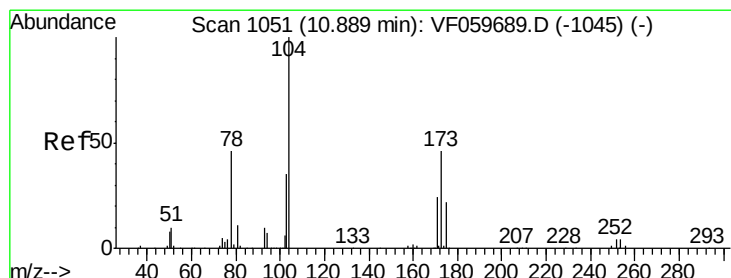
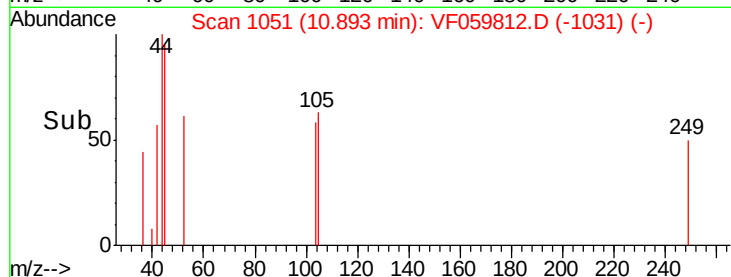
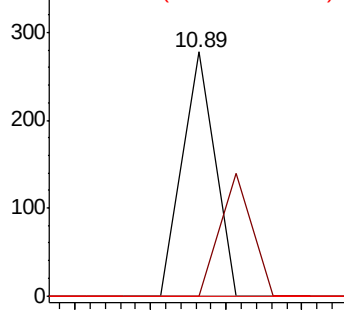
103 0.0 36.6 54.8#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.751 ug/l

RT: 10.74 min Scan# 1036

Delta R.T. -0.14 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

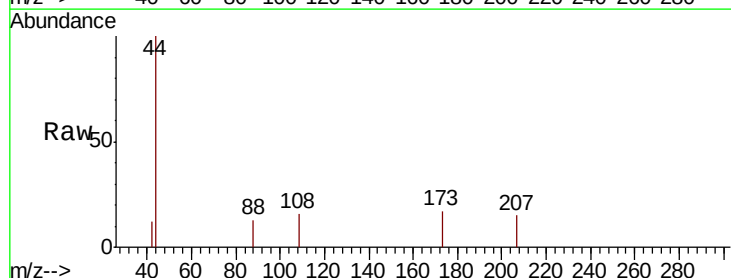
Tgt Ion:173 Resp: 89

Ion Ratio Lower Upper

173 100

175 0.0 23.4 70.0#

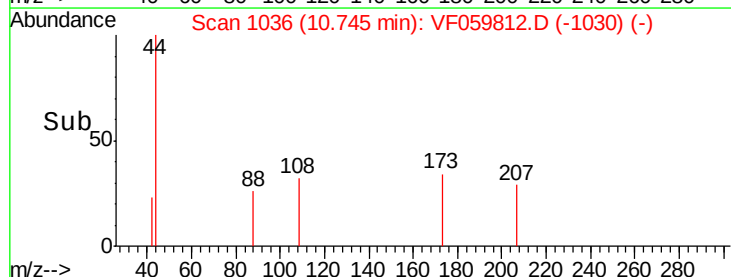
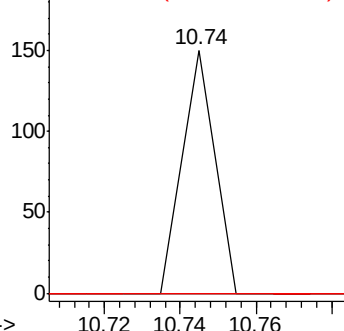
254 0.0 0.0 0.0

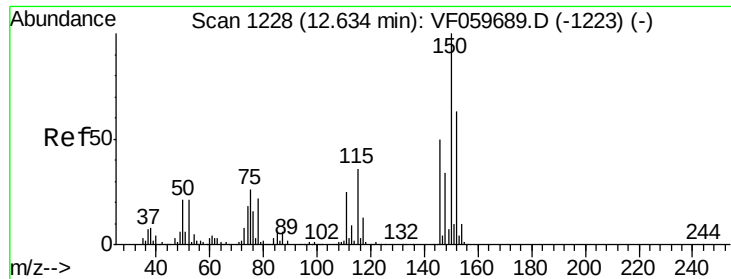


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



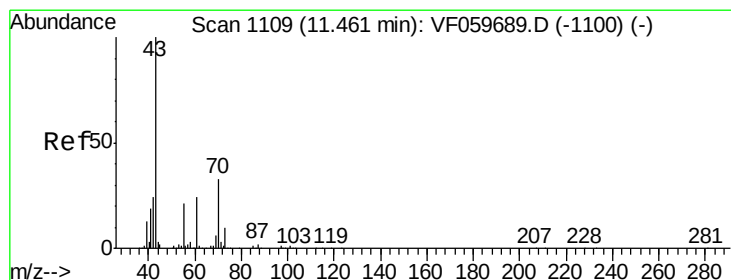
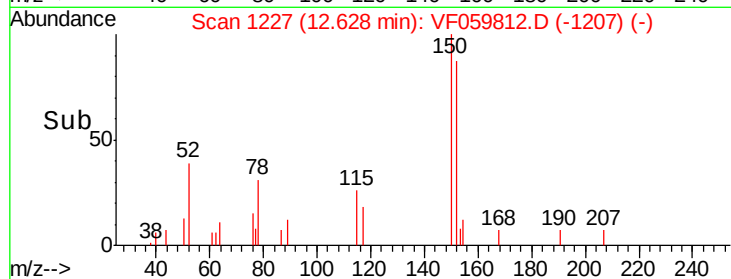
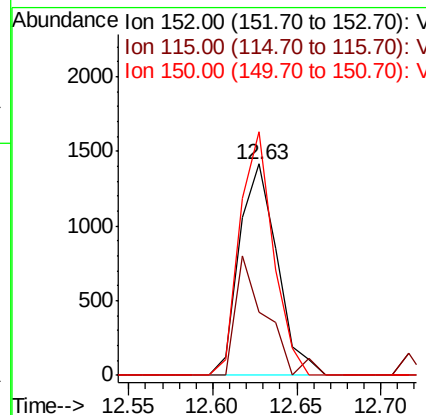
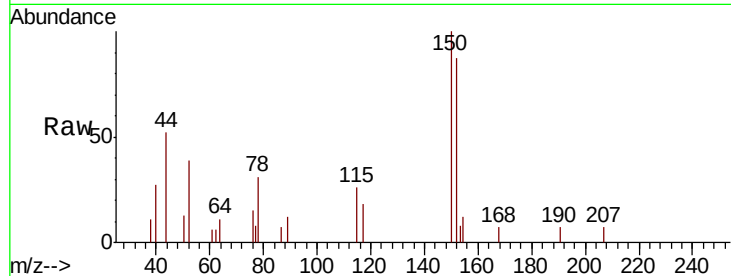


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.01 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

Instrument :
MSVOA_F
ClientSampleId :
SB-4(7-9)

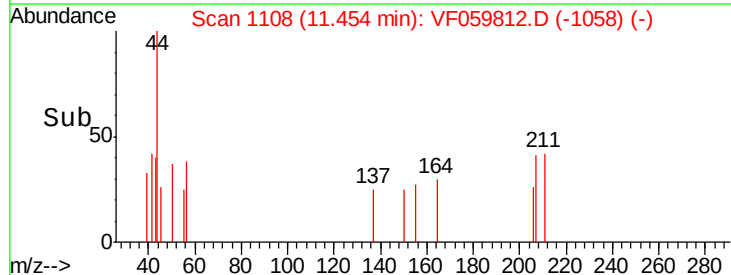
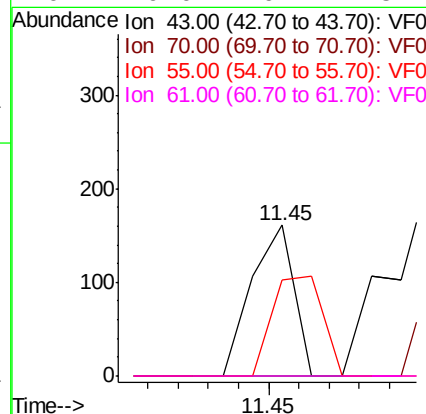
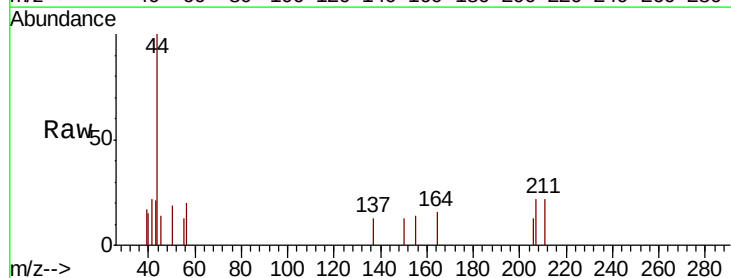
Tot Ion:152 Resp: 2213
Ion Ratio Lower Upper
152 100
115 29.7 28.2 84.6
150 115.4 0.0 316.2

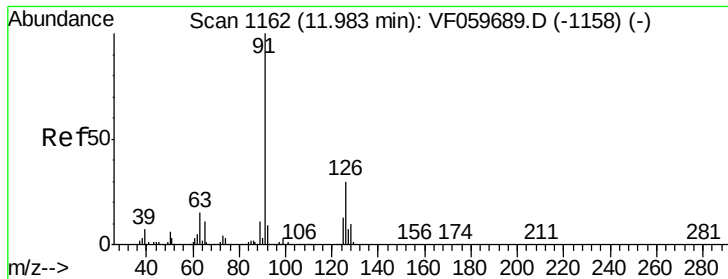


#74

N-amil acetate
Concen: 4.313 ug/l
RT: 11.45 min Scan# 1108
Delta R.T. -0.01 min
Lab File: VF059812.D
Acq: 2 Aug 2018 20:35

Tgt Ion: 43 Resp: 158
Ion Ratio Lower Upper
43 100
70 0.0 26.3 39.5#
55 63.4 16.6 25.0#
61 0.0 19.1 28.7#





#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.04 min Scan# 1167

Delta R.T. 0.05 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampleId :

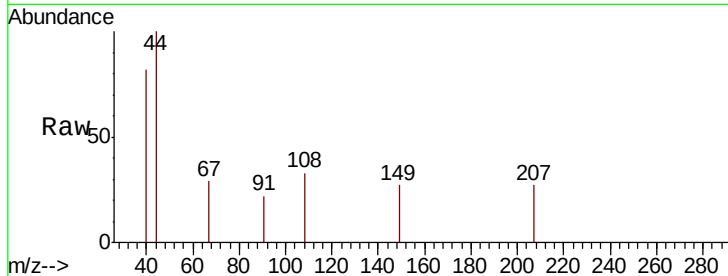
SB-4(7-9)

Tot Ion: 91 Resp: 60

Ion Ratio Lower Upper

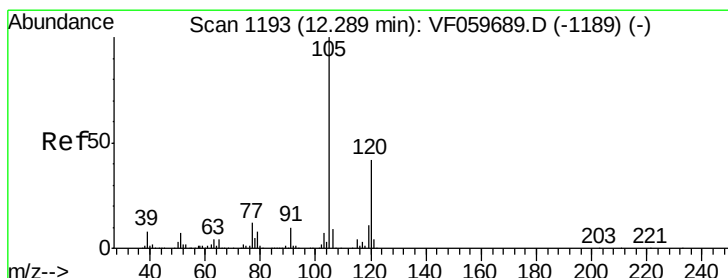
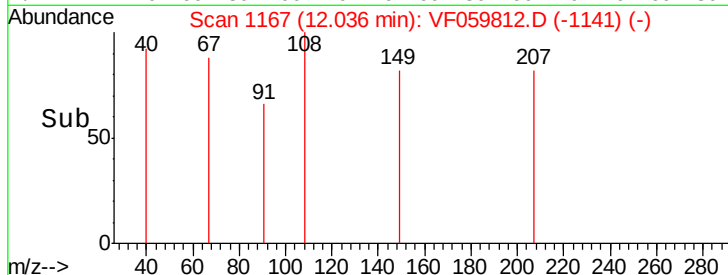
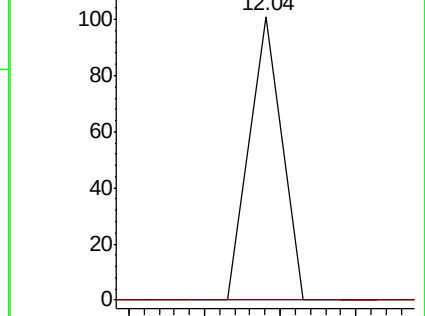
91 100

126 0.0 15.2 45.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 1188

Delta R.T. -0.04 min

Lab File: VF059812.D

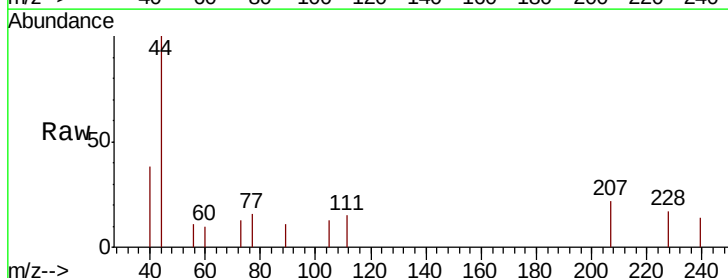
Acq: 2 Aug 2018 20:35

Tgt Ion:105 Resp: 74

Ion Ratio Lower Upper

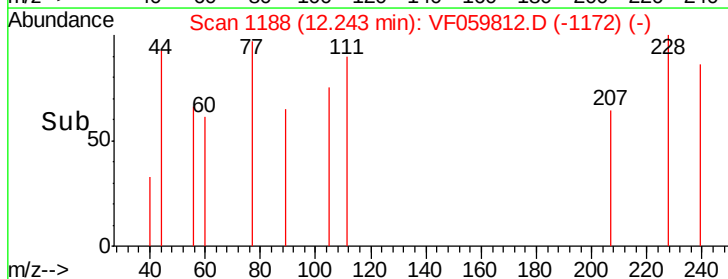
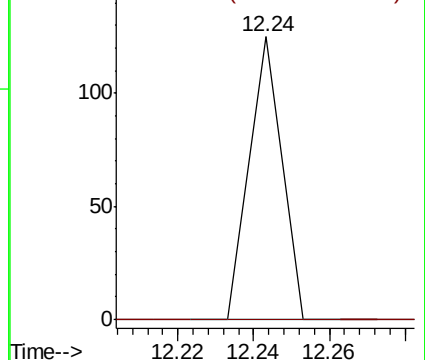
105 100

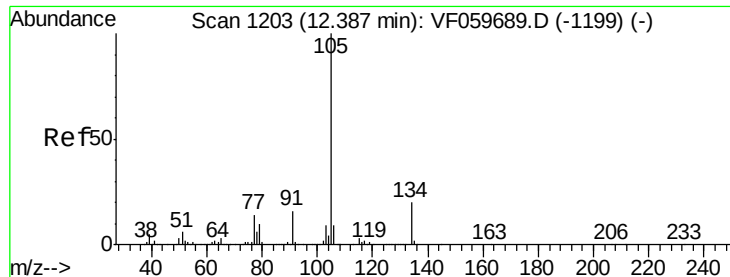
120 0.0 21.1 63.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 1188

Delta R.T. -0.14 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampled :

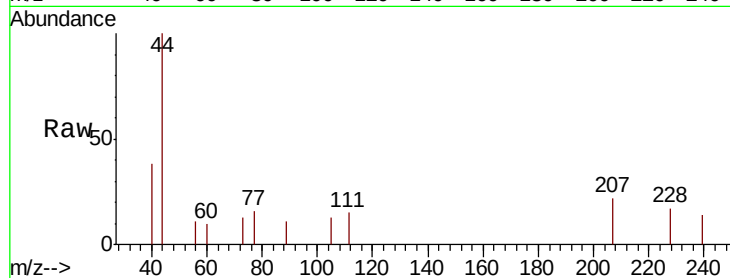
SB-4(7-9)

Tot Ion:105 Resp: 74

Ion Ratio Lower Upper

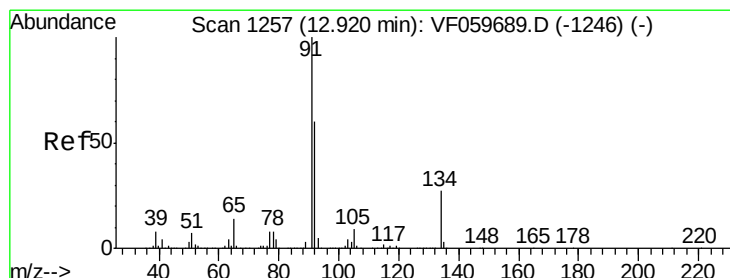
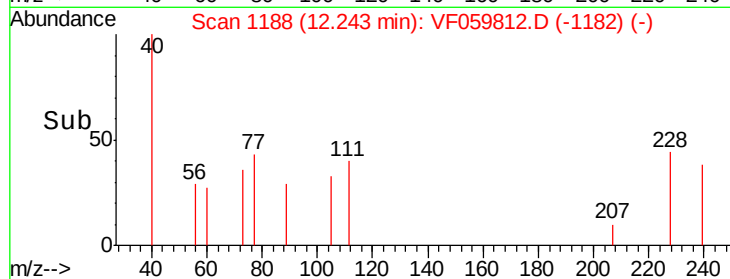
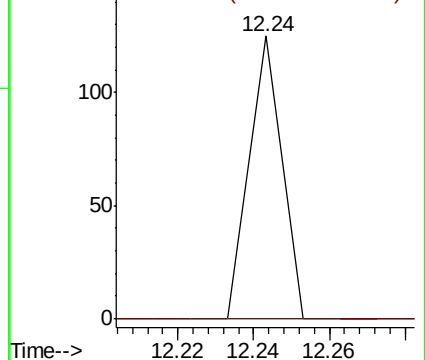
105 100

134 0.0 9.8 29.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: Below Cal

RT: 12.87 min Scan# 1252

Delta R.T. -0.05 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

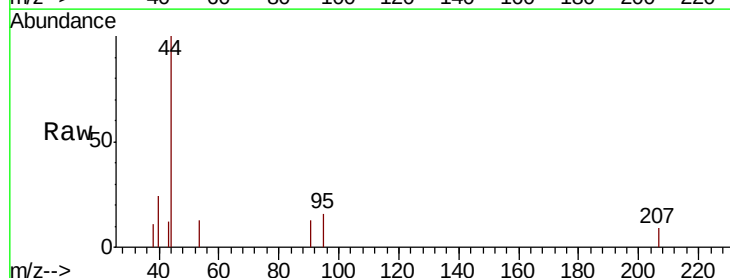
Tgt Ion: 91 Resp: 84

Ion Ratio Lower Upper

91 100

92 0.0 30.1 90.3#

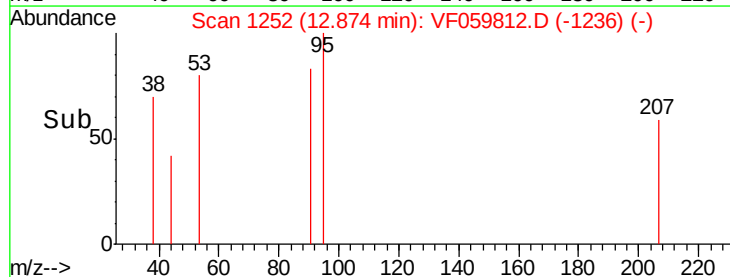
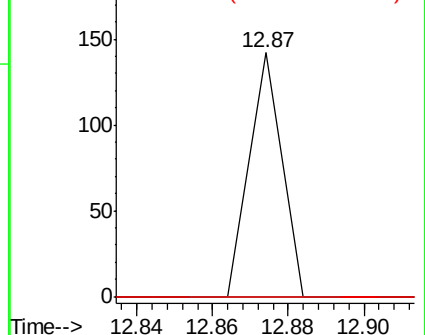
134 0.0 13.7 41.0#

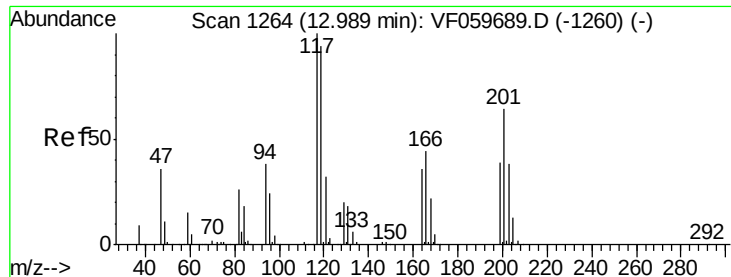


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 1.666 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampled :

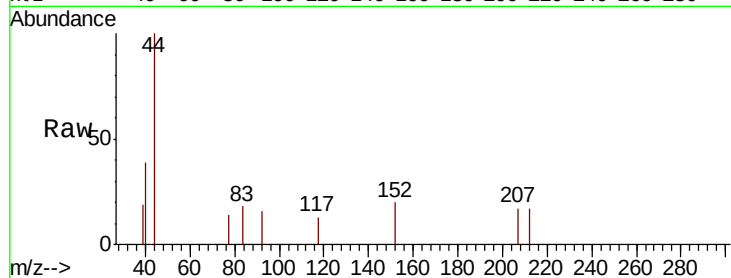
SB-4(7-9)

Tot Ion:117 Resp: 61

Ion Ratio Lower Upper

117 100

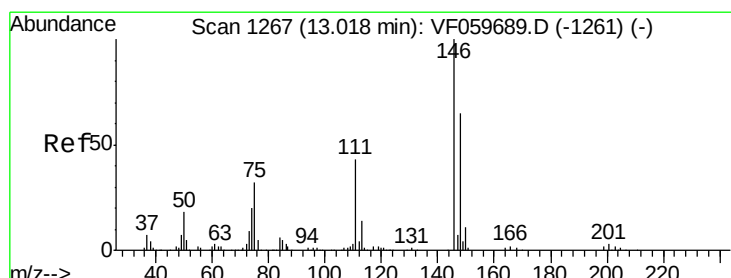
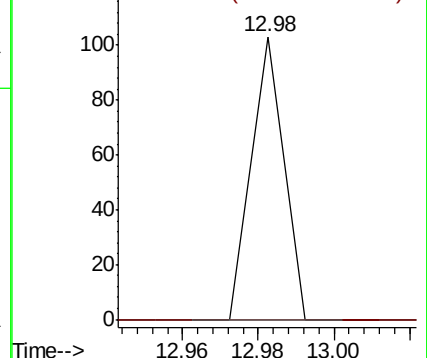
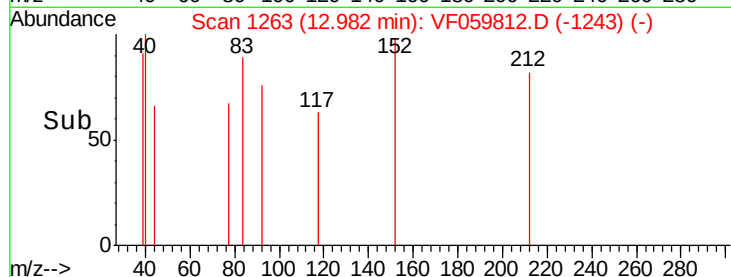
201 0.0 31.9 95.5#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

12.98



#91

1,2-Dichlorobenzene

Concen: Below Cal

RT: 13.17 min Scan# 1282

Delta R.T. 0.15 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

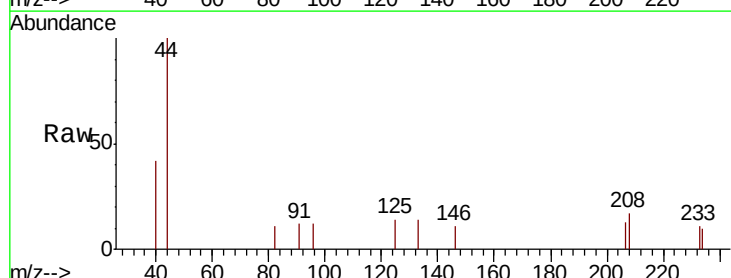
Tgt Ion:146 Resp: 67

Ion Ratio Lower Upper

146 100

111 0.0 21.6 65.0#

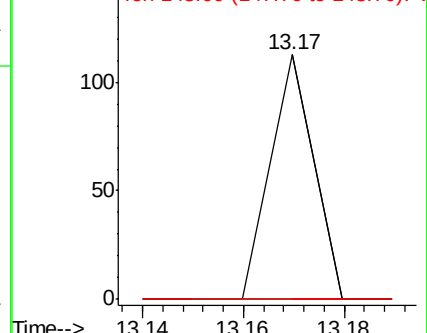
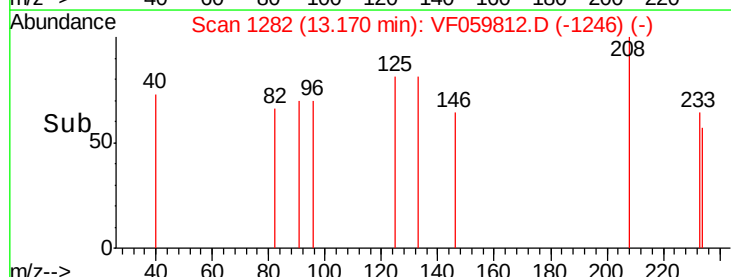
148 0.0 32.3 96.9#

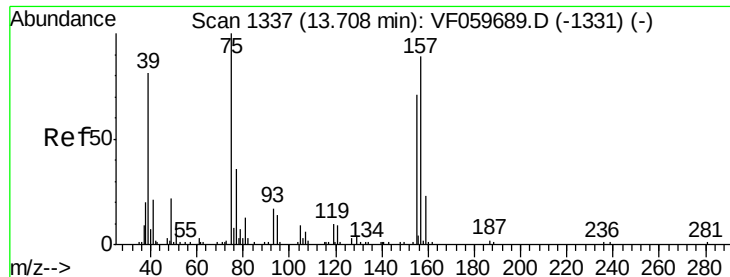


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 9.129 ug/l

RT: 13.64 min Scan# 1330

Delta R.T. -0.07 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

Instrument :

MSVOA_F

ClientSampled :

SB-4(7-9)

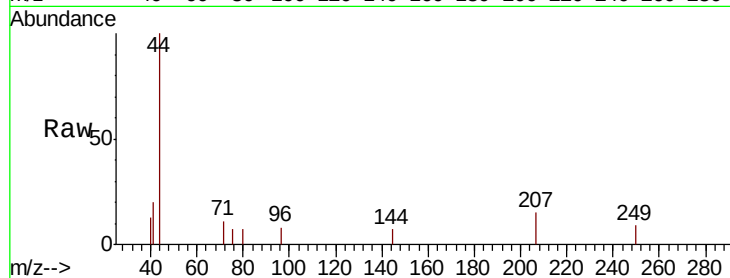
Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

155 0.0 35.4 106.2#

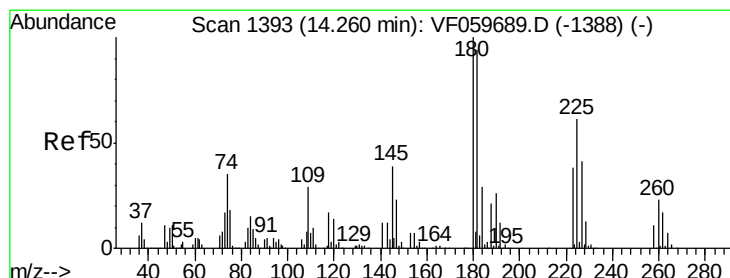
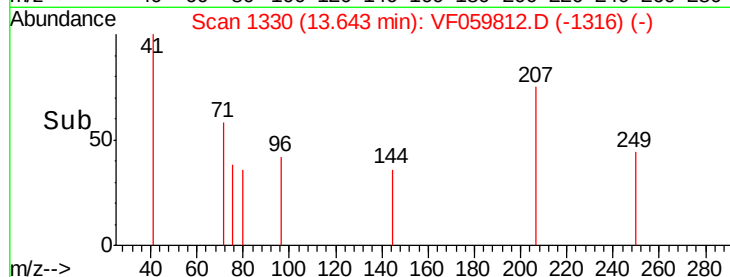
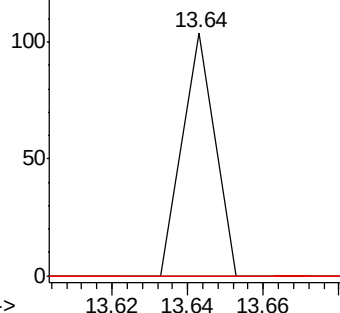
157 0.0 44.4 133.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#93

1,2,4-Trichlorobenzene

Concen: Below Cal

RT: 14.24 min Scan# 1391

Delta R.T. -0.02 min

Lab File: VF059812.D

Acq: 2 Aug 2018 20:35

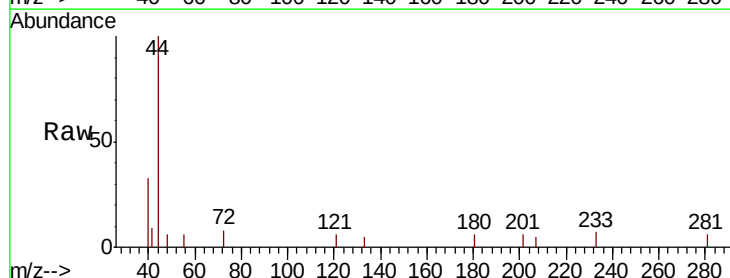
Tgt Ion:180 Resp: 67

Ion Ratio Lower Upper

180 100

182 0.0 47.2 141.6#

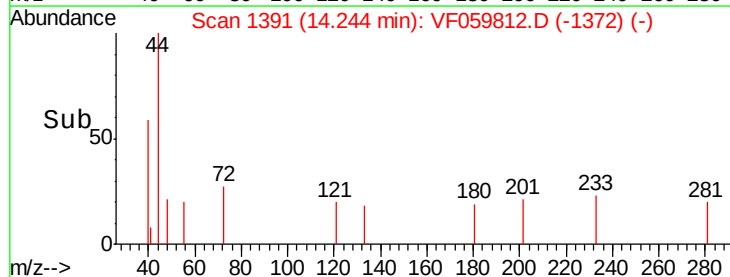
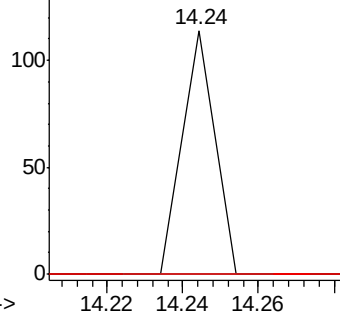
145 0.0 19.3 57.9#

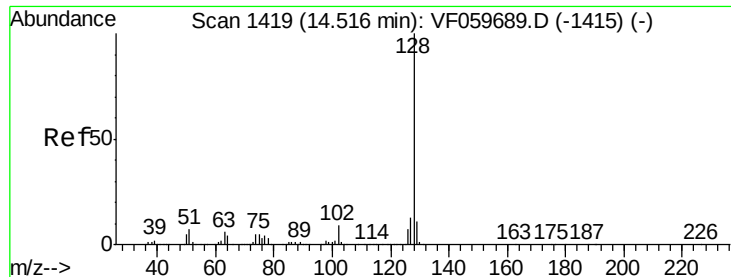


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

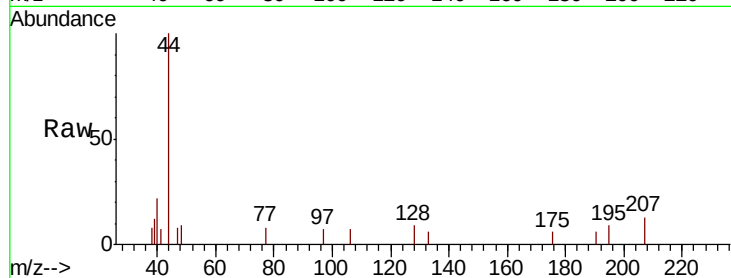




#95
 Naphthalene
 Concen: 1.017 ug/l
 RT: 14.53 min Scan# 1420
 Delta R.T. 0.01 min
 Lab File: VF059812.D
 Acq: 2 Aug 2018 20:35

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-4(7-9)

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	0.0	8.6	13.0#



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

