

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080118\
 Data File : VF059782.D
 Acq On : 2 Aug 2018 5:19
 Operator : VA/AP
 Sample : J4164-11
 Misc : 10.88g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 DUP-072518

Quant Time: Aug 02 07:50:32 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	7210	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	6514	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	3112	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	425	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	1232	9.51	ug/l	0.00
Spiked Amount			Recovery	=	19.02%	
35) Dibromofluoromethane	4.30	113	2135	31.56	ug/l	0.01
Spiked Amount			Recovery	=	63.12%	
50) Toluene-d8	7.71	98	3994	25.31	ug/l	0.00
Spiked Amount			Recovery	=	50.62%	
62) 4-Bromofluorobenzene	11.51	95	701	8.03	ug/l	0.00
Spiked Amount			Recovery	=	16.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	103	Below Cal	#	38
4) Vinyl Chloride	0.99	62	95	Below Cal	#	47
5) Bromomethane	1.36	94	132	Below Cal	#	4
6) Chloroethane	1.43	64	60	Below Cal	#	35
8) Diethyl Ether	1.77	74	78	3.39	ug/l	64
9) 1,1,2-Trichlorotrifluoroet	1.95	101	96	1.36	ug/l	# 22
11) Tert butyl alcohol	2.64	59	65	11.05	ug/l	# 74
12) 1,1-Dichloroethene	1.75	96	64	1.15	ug/l	# 1
13) Acrolein	1.93	56	67	38.97	ug/l	# 4
14) Allyl chloride	2.16	41	167	1.87	ug/l	# 1
16) Acetone	2.34	43	106	4.55	ug/l	# 68
17) Carbon Disulfide	1.94	76	64	Below Cal	#	71
18) Methyl Acetate	2.45	43	66	Below Cal	#	64
20) Methylene Chloride	2.40	84	93	Below Cal	#	1
23) Vinyl Acetate	3.36	43	173	1.78	ug/l	# 83
25) 2-Butanone	4.50	43	65	2.50	ug/l	# 74
29) Tetrahydrofuran	4.18	42	81	8.10	ug/l	# 39
31) Cyclohexane	3.84	56	65	Below Cal	#	15
37) Ethyl Acetate	4.36	43	73	Below Cal	#	19
39) Methylcyclohexane	5.62	83	60	Below Cal	#	13
41) Methacrylonitrile	4.89	41	177	8.46	ug/l	# 37
43) Isopropyl Acetate	7.13	43	326	8.37	ug/l	# 46
44) Trichloroethene	5.79	130	73	Below Cal	#	1
45) 1,2-Dichloropropane	6.31	63	88	2.53	ug/l	# 43
48) Methyl methacrylate	6.85	41	62	2.12	ug/l	# 13
49) 1,4-Dioxane	6.92	88	61	280.37	ug/l	# 21
51) 4-Methyl-2-Pentanone	8.43	43	63	2.13	ug/l	# 42
53) t-1,3-Dichloropropene	8.56	75	107	1.37	ug/l	# 55
55) 1,1,2-Trichloroethane	8.50	97	138	3.87	ug/l	# 14
56) Ethyl methacrylate	8.75	69	60	1.61	ug/l	# 14
58) 2-Chloroethyl Vinyl ether	7.86	63	63	14.69	ug/l	100
59) 2-Hexanone	9.62	43	155	6.53	ug/l	# 30
60) Dibromochloromethane	8.76	129	70	1.11	ug/l	# 12
68) m/p-Xylenes	10.22	106	76	Below Cal	#	1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

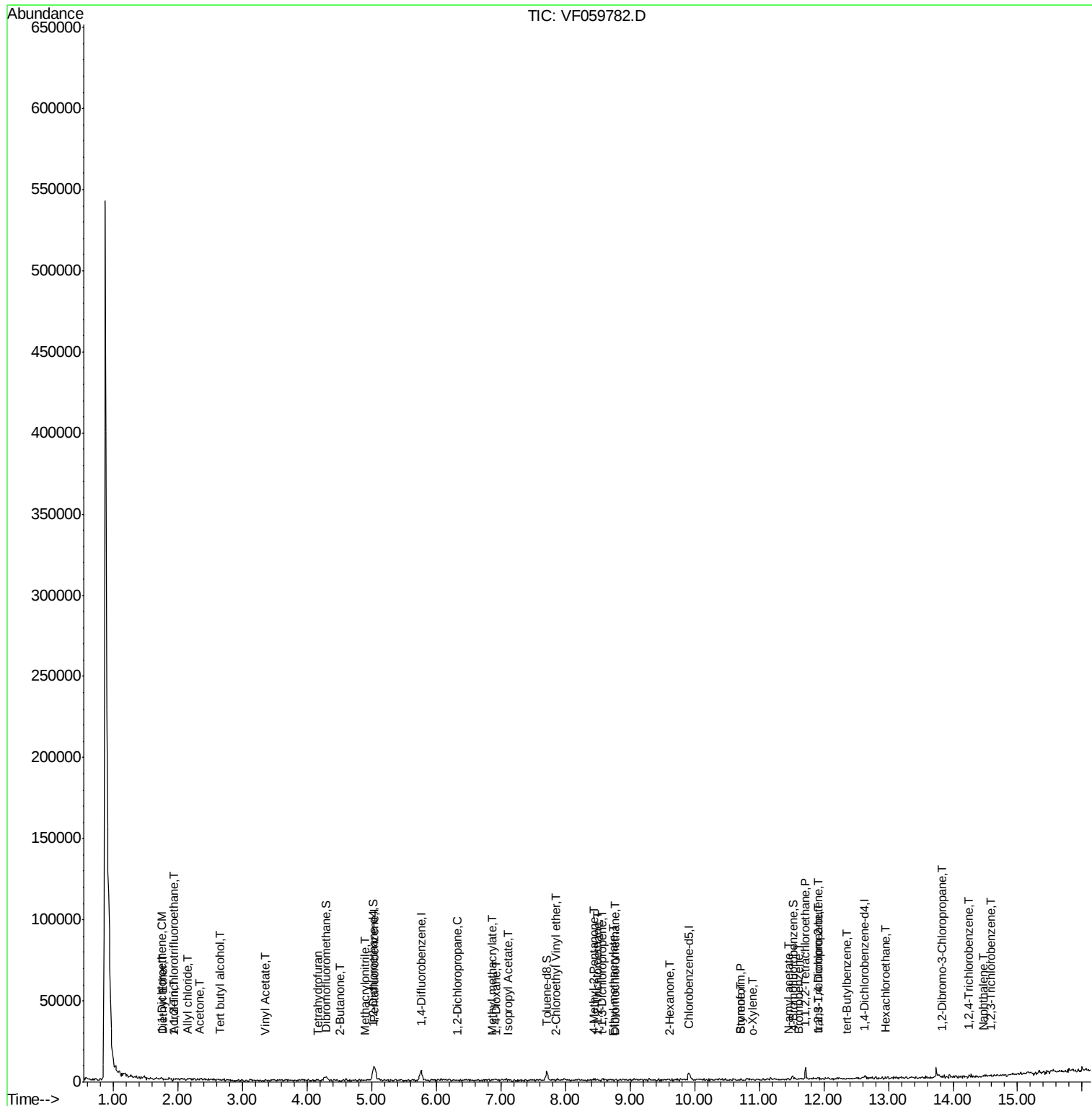
69) o-Xylene	10.89	106	74	1.86	ug/l #	1
70) Styrene	10.73	104	136	2.26	ug/l #	26
71) Bromoform	10.72	173	72	3.80	ug/l #	30
74) N-amyl acetate	11.45	43	64	9.10	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.70	83	60	11.43	ug/l #	25
76) 1,2,3-Trichloropropane	11.91	75	148	33.16	ug/l #	1
77) Bromobenzene	11.61	156	62	8.51	ug/l #	1
81) trans-1,4-Dichloro-2-buten	11.91	75	148	80.06	ug/l #	69
83) tert-Butylbenzene	12.34	119	62	2.48	ug/l #	26
85) sec-Butylbenzene	12.52	105	72	Below	Cal #	57
86) p-Isopropyltoluene	12.64	119	92	Below	Cal #	49
89) n-Butylbenzene	12.99	91	86	Below	Cal #	29
90) Hexachloroethane	12.96	117	63	8.96	ug/l #	18
92) 1,2-Dibromo-3-Chloropropan	13.83	75	70	54.55	ug/l #	39
93) 1,2,4-Trichlorobenzene	14.25	180	80	4.26	ug/l #	12
95) Naphthalene	14.47	128	93	5.08	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.60	180	68	6.71	ug/l #	13

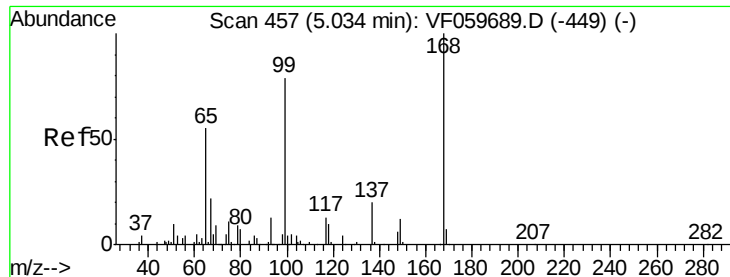
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

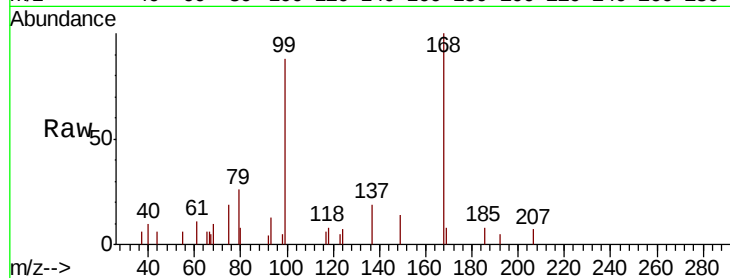
DUP-072518

Tot Ion:168 Resp: 7210

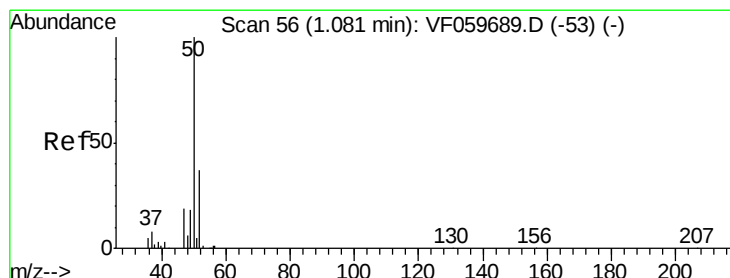
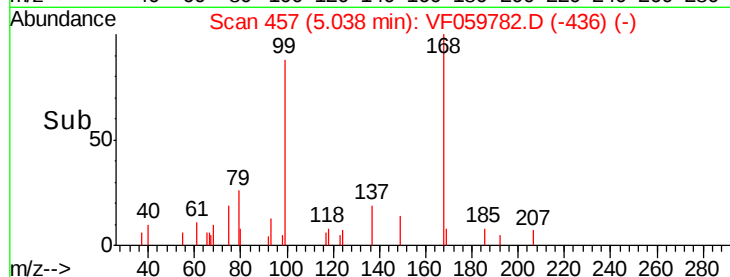
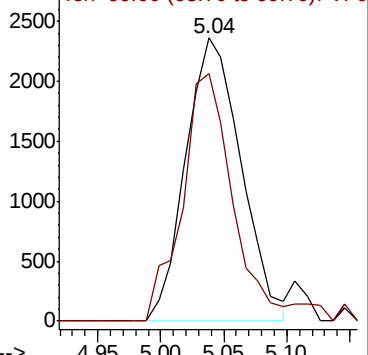
Ion Ratio Lower Upper

168 100

99 87.5 63.3 94.9



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: Below Cal

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059782.D

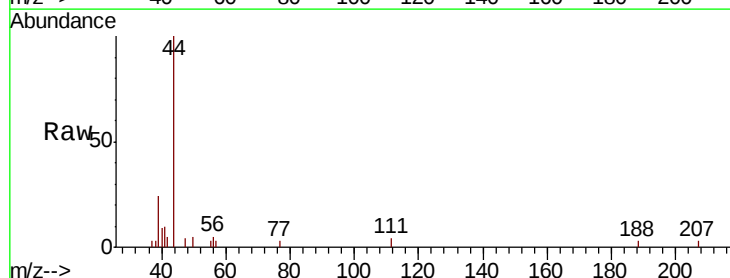
Acq: 2 Aug 2018 5:19

Tgt Ion: 50 Resp: 103

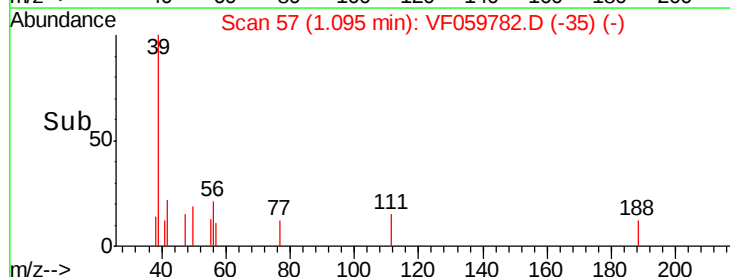
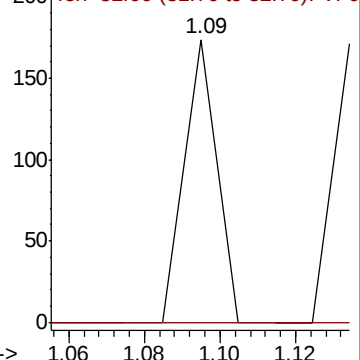
Ion Ratio Lower Upper

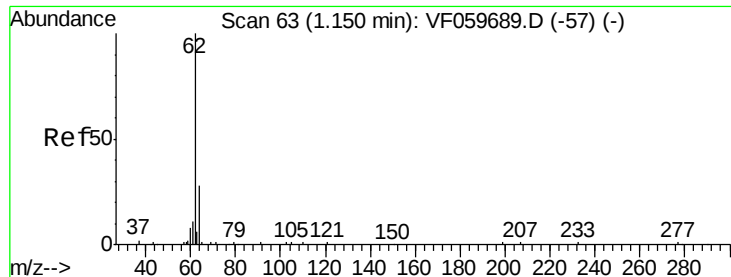
50 100

52 0.0 29.1 43.7#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: Below Cal

RT: 0.99 min Scan# 46

Delta R.T. -0.16 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleID :

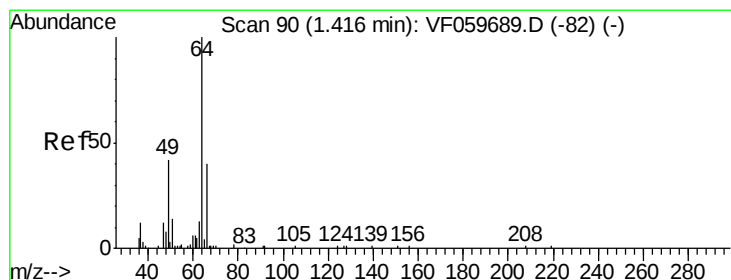
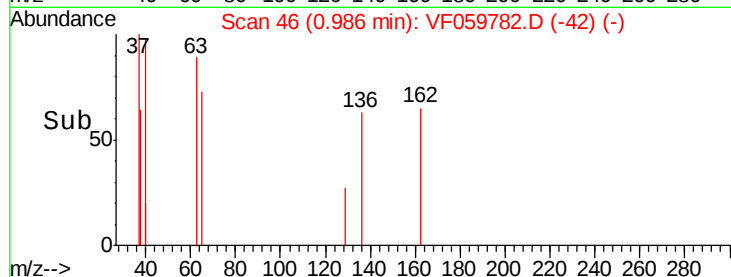
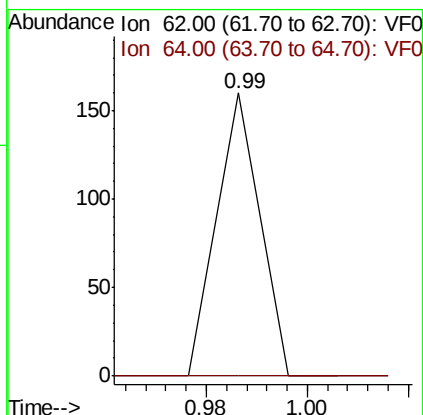
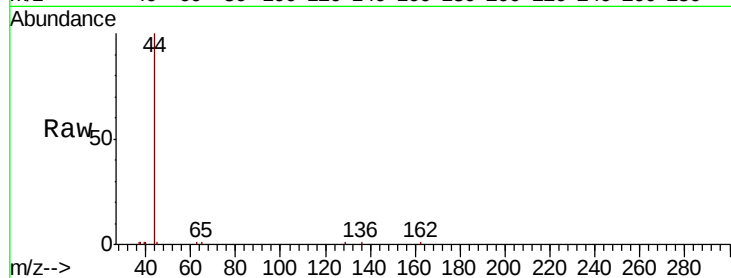
DUP-072518

Tot Ion: 62 Resp: 95

Ion Ratio Lower Upper

62 100

64 0.0 22.6 33.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.01 min

Lab File: VF059782.D

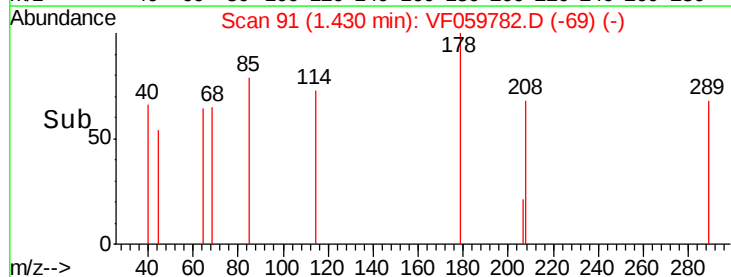
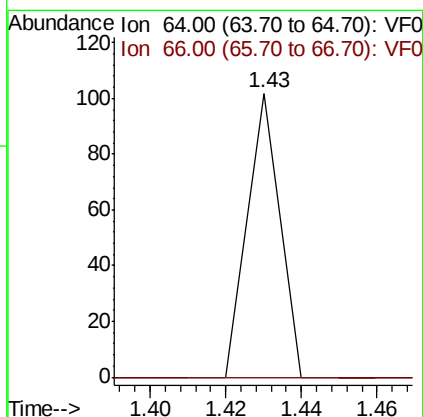
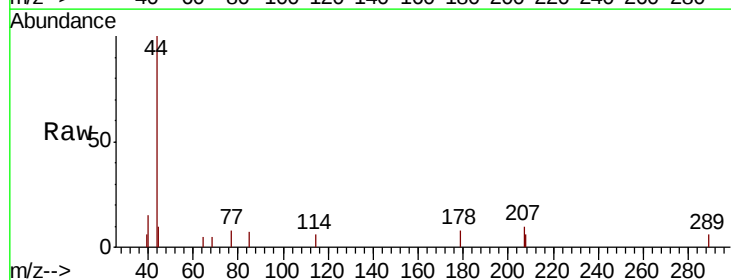
Acq: 2 Aug 2018 5:19

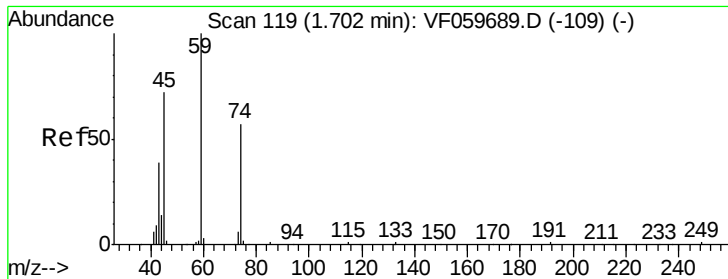
Tgt Ion: 64 Resp: 60

Ion Ratio Lower Upper

64 100

66 0.0 32.6 49.0#





#8

Diethyl Ether

Concen: 3.39 ug/l

RT: 1.77 min Scan# 125

Delta R.T. 0.06 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

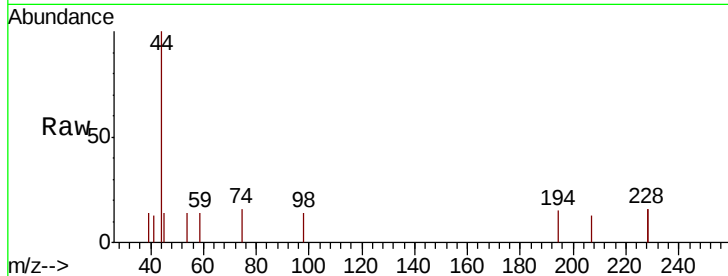
DUP-072518

Tot Ion: 74 Resp: 78

Ion Ratio Lower Upper

74 100

45 84.1 62.7 188.2



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

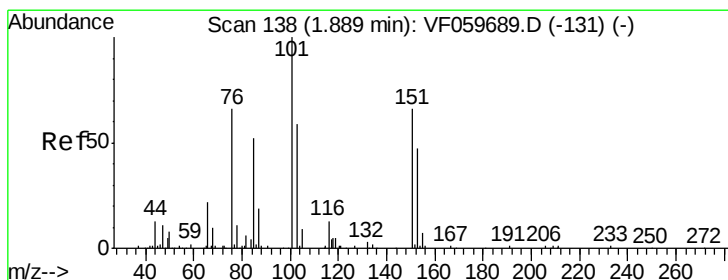
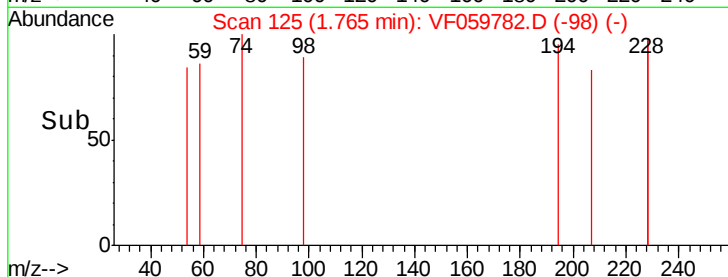
1.77

100

50

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.36 ug/l

RT: 1.95 min Scan# 144

Delta R.T. 0.06 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

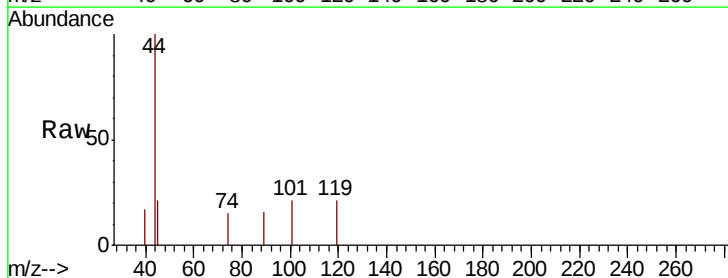
Tgt Ion: 101 Resp: 96

Ion Ratio Lower Upper

101 100

85 0.0 40.7 61.1#

151 0.0 51.4 77.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V

1.95

200

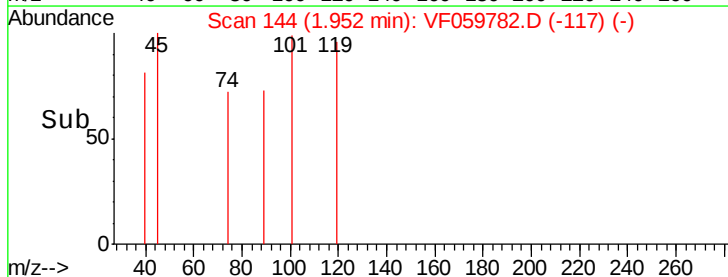
150

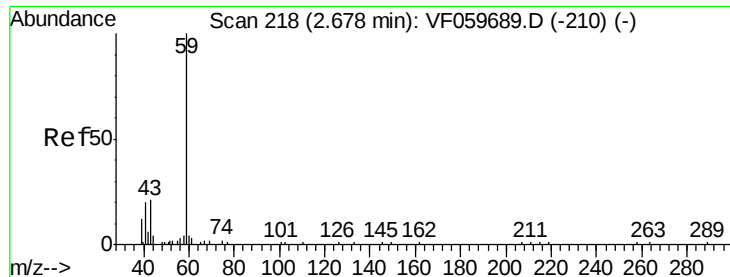
100

50

0

Time-->



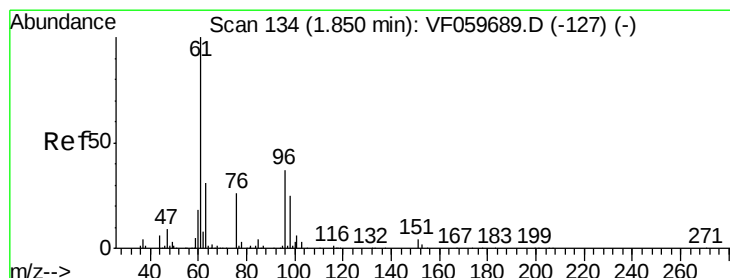
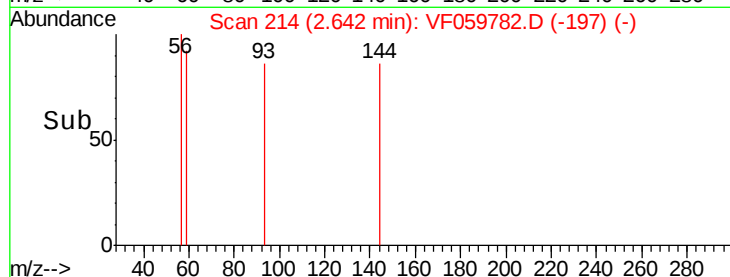
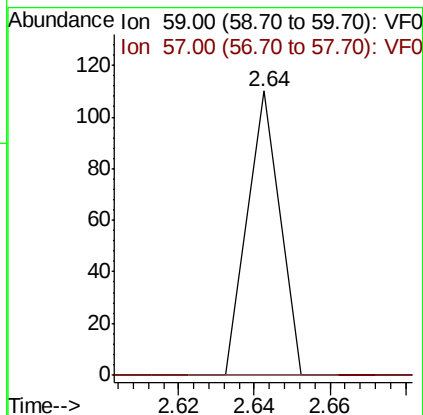
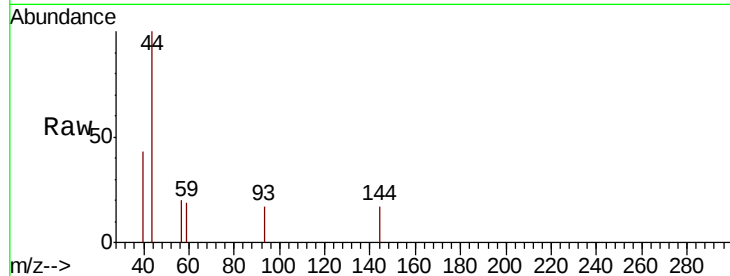


#11

Tert butyl alcohol
 Concen: 11.05 ug/l
 RT: 2.64 min Scan# 214
 Delta R.T. -0.03 min
 Lab File: VF059782.D
 Acq: 2 Aug 2018 5:19

Instrument :
 MSVOA_F
 ClientSampleID :
 DUP-072518

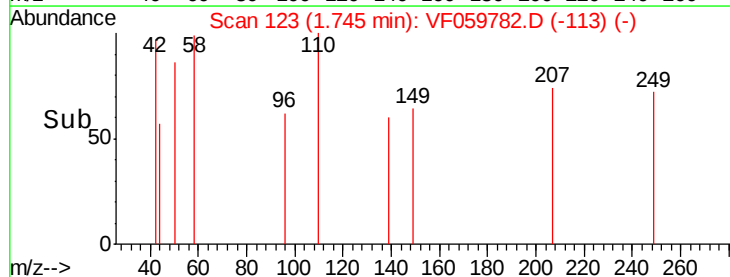
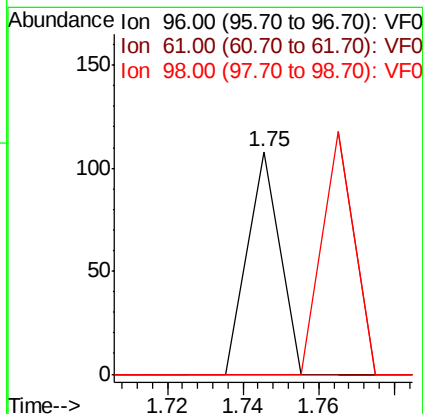
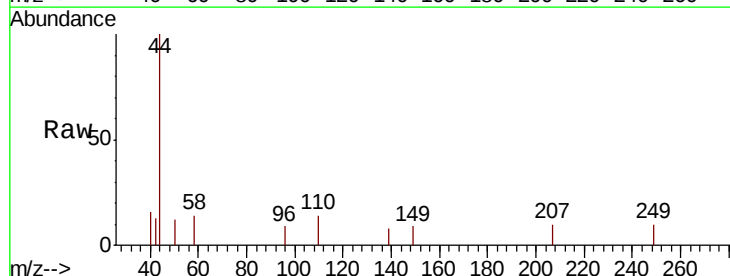
Tot Ion: 59 Resp: 65
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

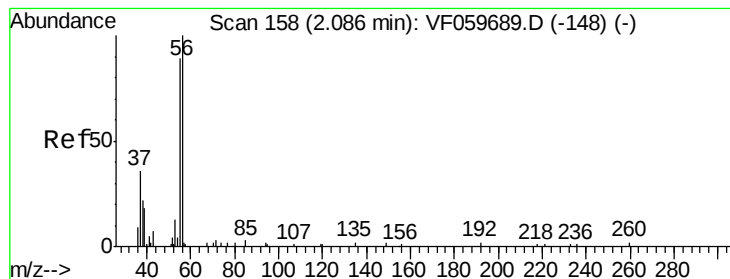


#12

1,1-Dichloroethene
 Concen: 1.15 ug/l
 RT: 1.75 min Scan# 123
 Delta R.T. -0.10 min
 Lab File: VF059782.D
 Acq: 2 Aug 2018 5:19

Tgt Ion: 96 Resp: 64
 Ion Ratio Lower Upper
 96 100
 61 0.0 215.1 322.7#
 98 0.0 54.3 81.5#





#13

Acrolein

Concen: 38.97 ug/l

RT: 1.93 min Scan# 142

Delta R.T. -0.15 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampled :

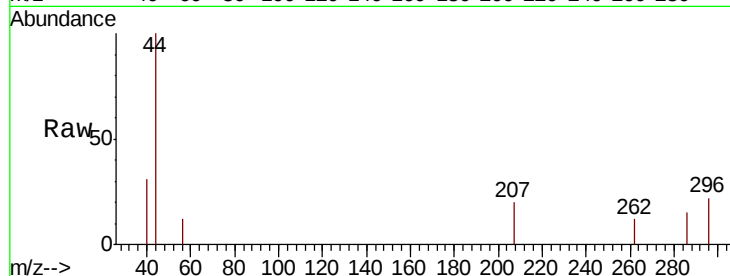
DUP-072518

Tot Ion: 56 Resp: 67

Ion Ratio Lower Upper

56 100

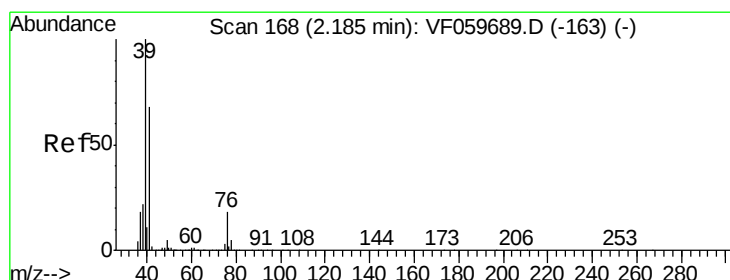
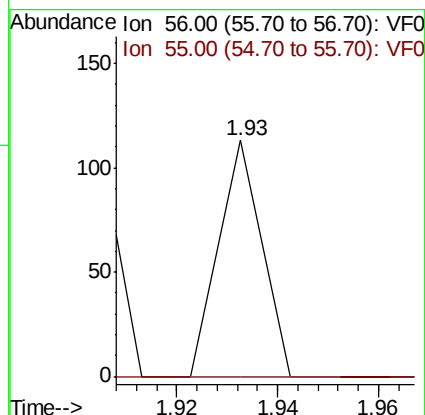
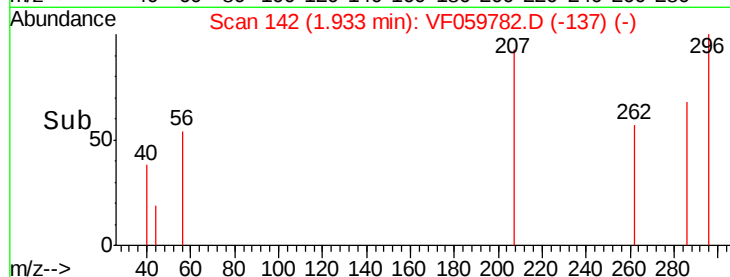
55 0.0 73.2 109.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

1.93



#14

Allyl chloride

Concen: 1.87 ug/l

RT: 2.16 min Scan# 165

Delta R.T. -0.03 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

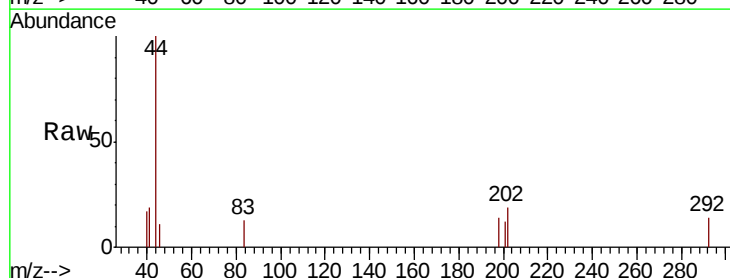
Tgt Ion: 41 Resp: 167

Ion Ratio Lower Upper

41 100

39 0.0 118.1 177.1#

76 0.0 22.0 33.0#

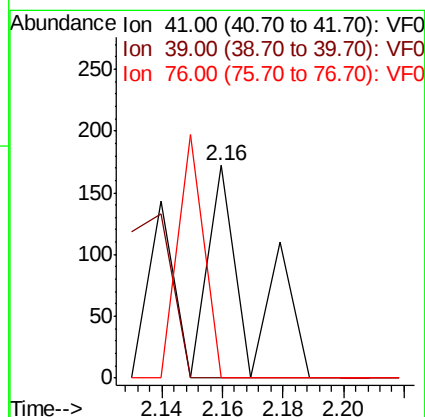
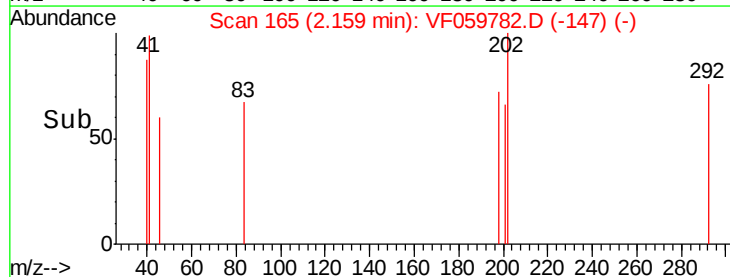


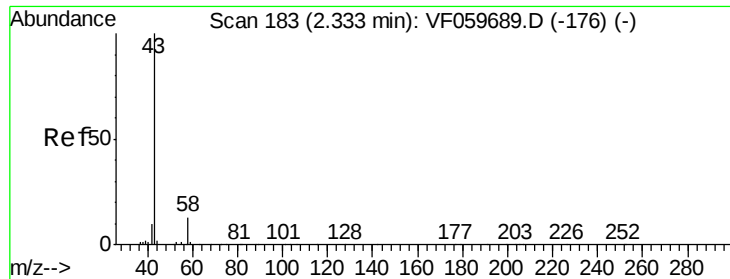
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

2.16





#16

Acetone

Concen: 4.55 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

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ClientSampleId :

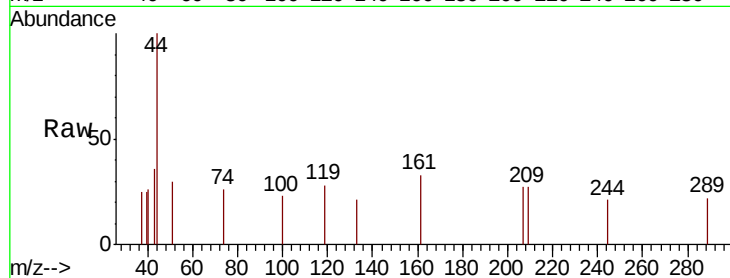
DUP-072518

Tot Ion: 43 Resp: 106

Ion Ratio Lower Upper

43 100

58 0.0 10.1 15.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.34

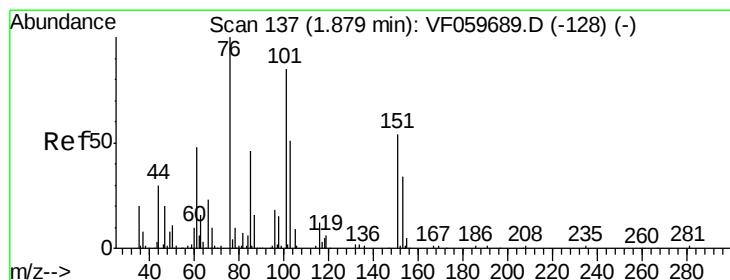
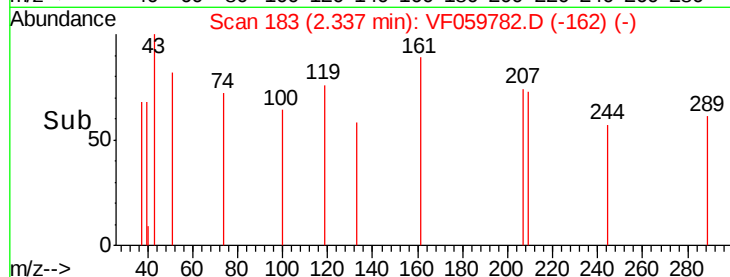
150

100

50

0

Time--> 2.30 2.32 2.34 2.36



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.94 min Scan# 143

Delta R.T. 0.06 min

Lab File: VF059782.D

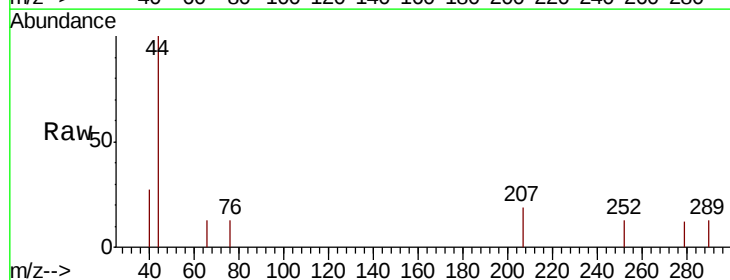
Acq: 2 Aug 2018 5:19

Tgt Ion: 76 Resp: 64

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

1.94

120

100

80

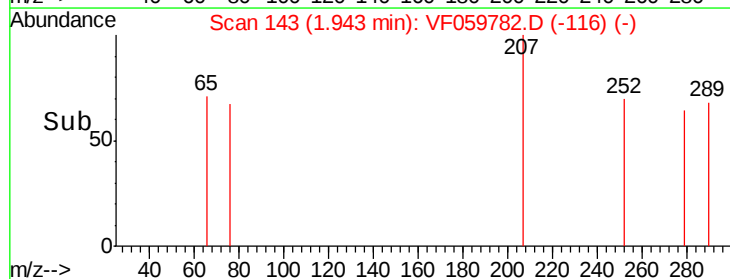
60

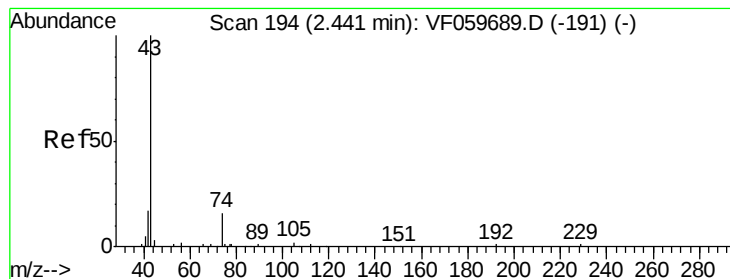
40

20

0

Time--> 1.92 1.94 1.96





#18

Methyl Acetate

Concen: Below Cal

RT: 2.45 min Scan# 194

Delta R.T. 0.00 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

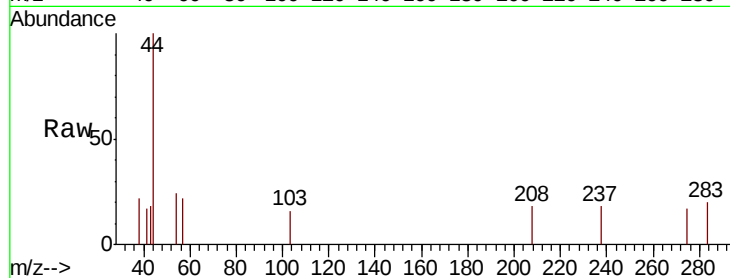
DUP-072518

Tot Ion: 43 Resp: 66

Ion Ratio Lower Upper

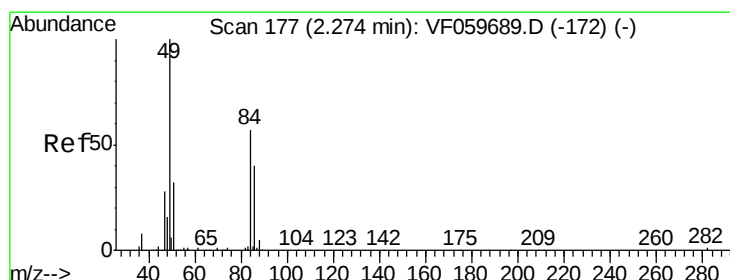
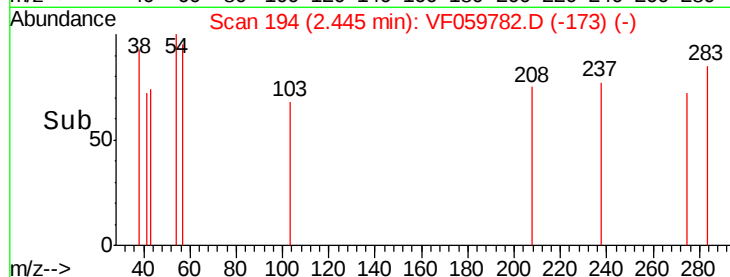
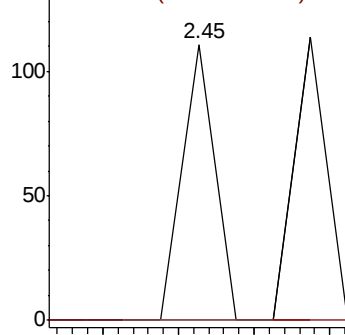
43 100

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: 2.40 min Scan# 189

Delta R.T. 0.12 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Tgt Ion: 84 Resp: 93

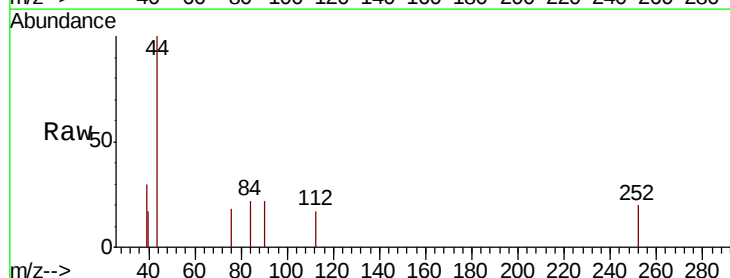
Ion Ratio Lower Upper

84 100

49 0.0 142.2 213.4#

51 0.0 46.2 69.2#

86 0.0 57.1 85.7#

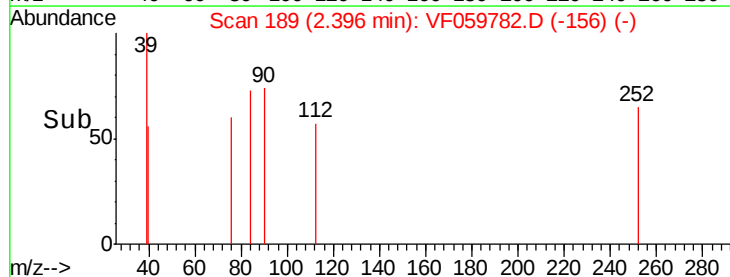
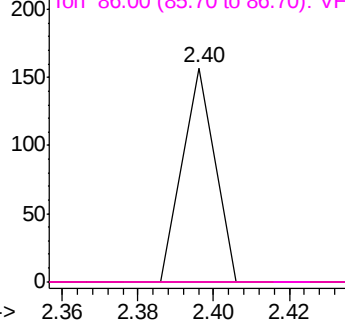


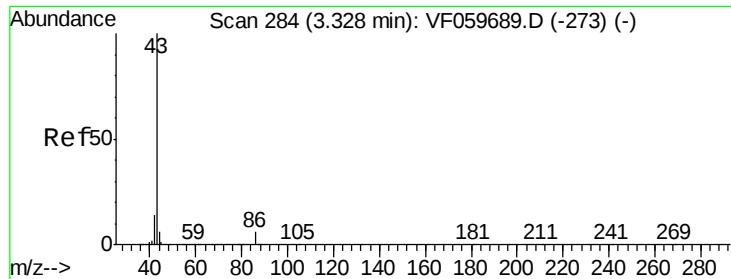
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#23

Vinyl Acetate

Concen: 1.78 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.03 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleID :

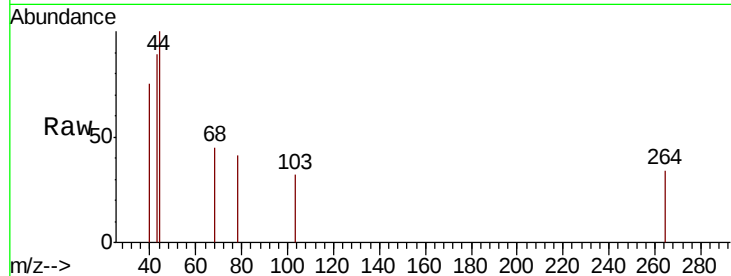
DUP-072518

Tot Ion: 43 Resp: 173

Ion Ratio Lower Upper

43 100

86 0.0 4.6 6.8#



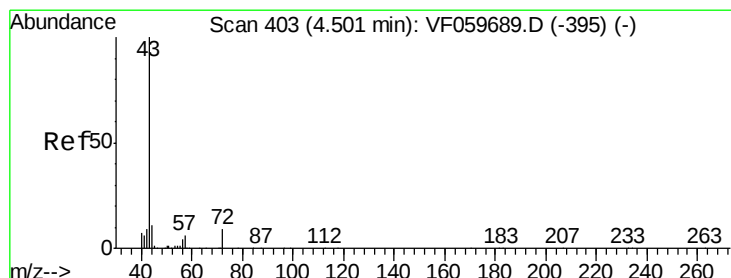
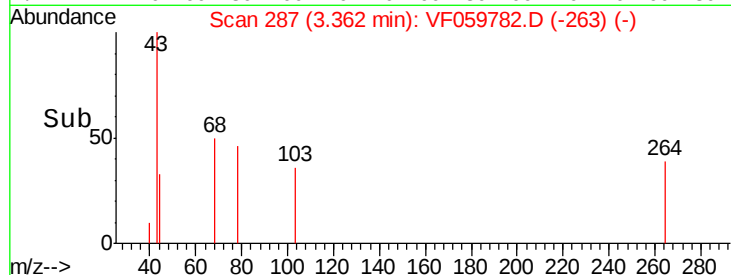
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.36

3.34 3.36 3.38

Time-->



#25

2-Butanone

Concen: 2.50 ug/l

RT: 4.50 min Scan# 402

Delta R.T. -0.01 min

Lab File: VF059782.D

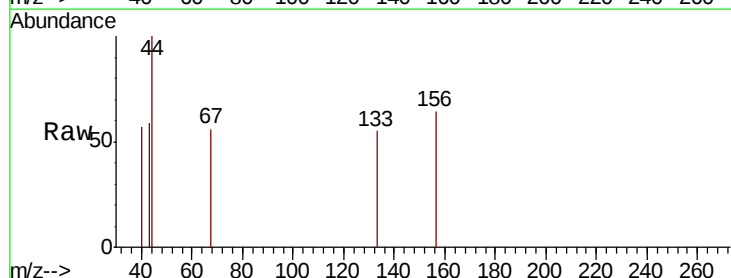
Acq: 2 Aug 2018 5:19

Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

72 0.0 7.7 11.5#



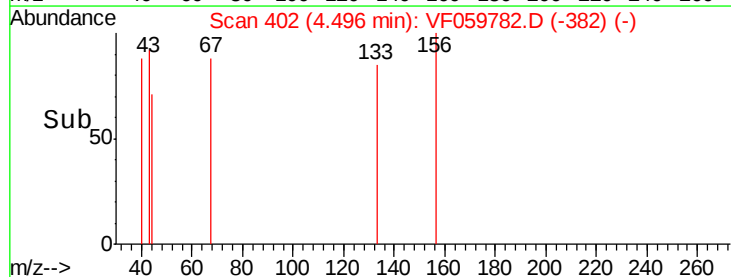
Abundance Ion 43.00 (42.70 to 43.70): VF0

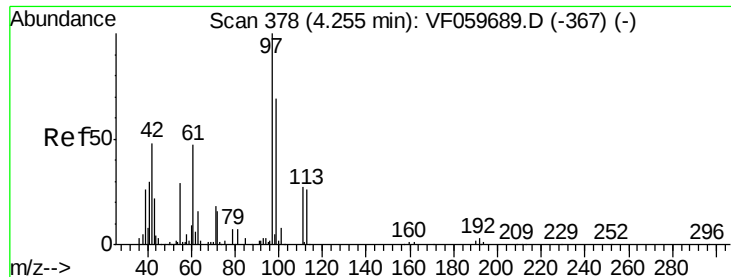
Ion 72.00 (71.70 to 72.70): VF0

4.50

4.46 4.48 4.50 4.52

Time-->





#29

Tetrahydrofuran

Concen: 8.10 ug/l

RT: 4.18 min Scan# 370

Delta R.T. -0.07 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

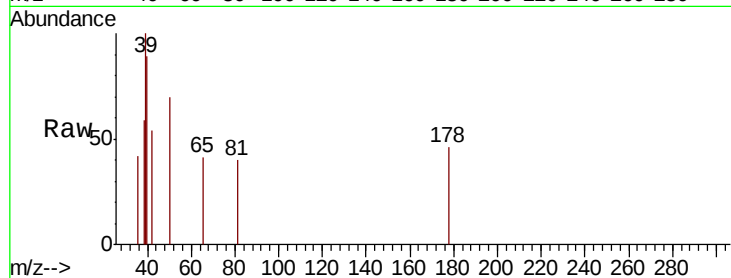
Tot Ion: 42 Resp: 81

Ion Ratio Lower Upper

42 100

72 0.0 27.0 40.6#

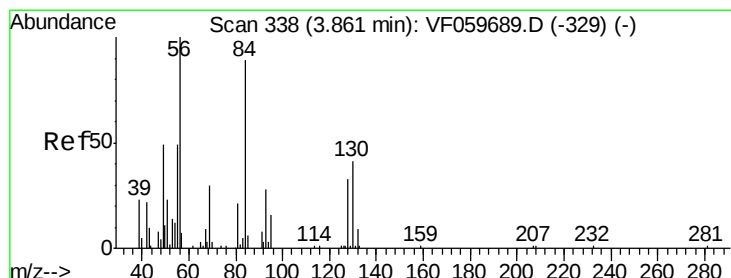
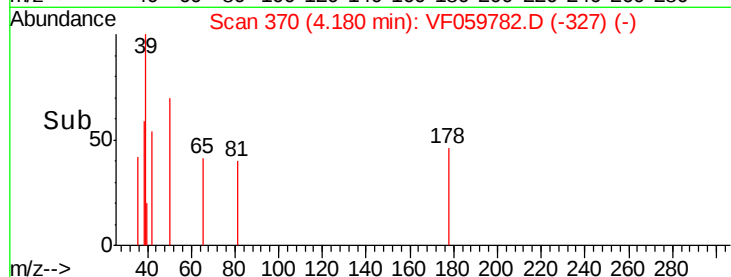
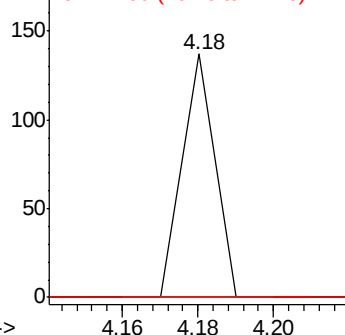
71 0.0 29.7 44.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#31

Cyclohexane

Concen: Below Cal

RT: 3.84 min Scan# 336

Delta R.T. -0.02 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

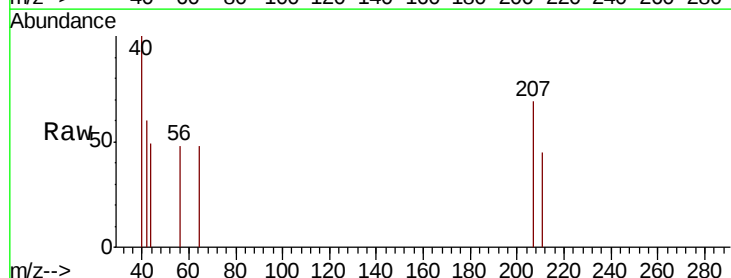
Tgt Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

69 0.0 23.7 35.5#

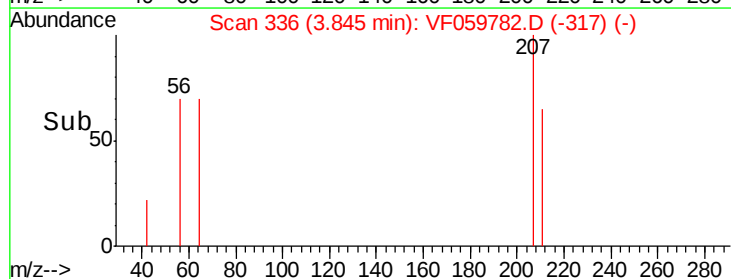
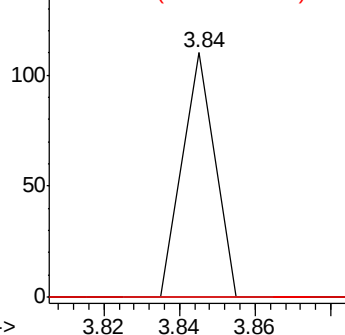
84 0.0 71.1 106.7#

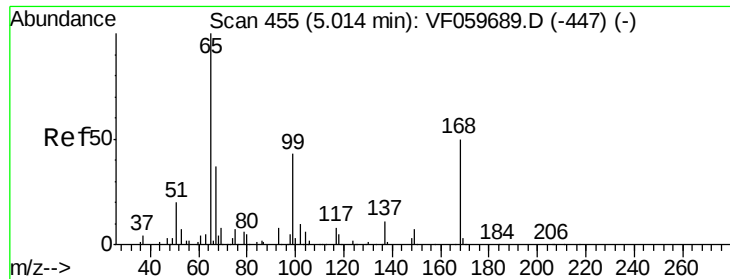


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0

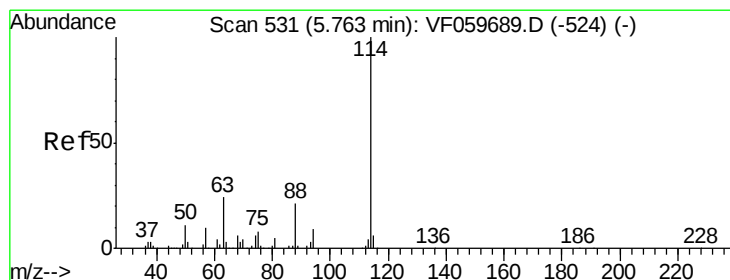
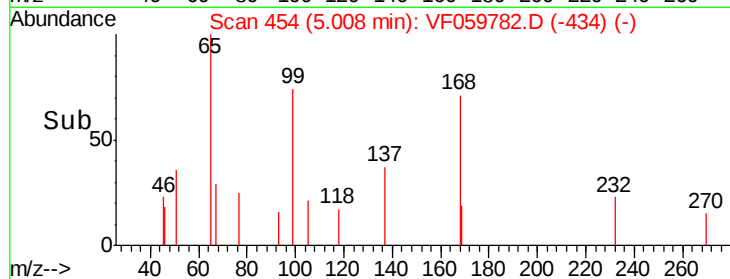
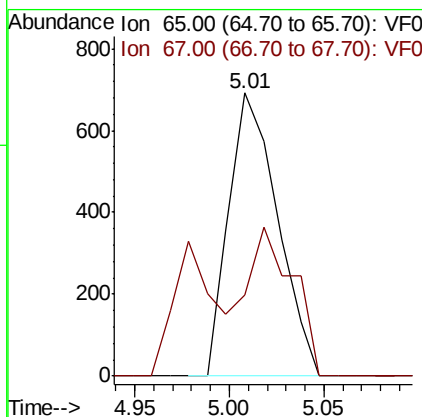
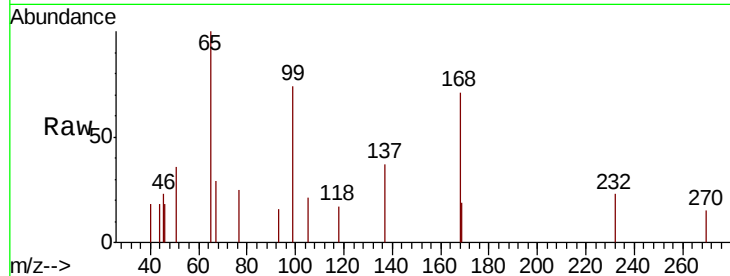




#33
 1,2-Dichloroethane-d4
 Concen: 9.51 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.01 min
 Lab File: VF059782.D
 Acq: 2 Aug 2018 5:19

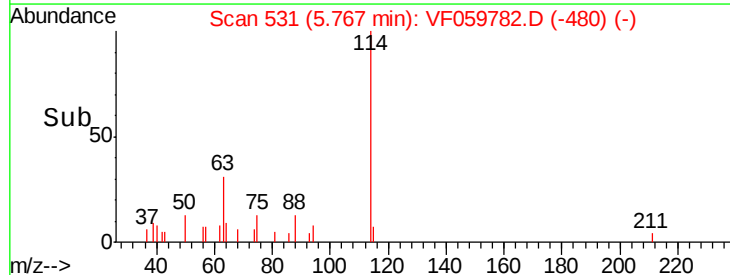
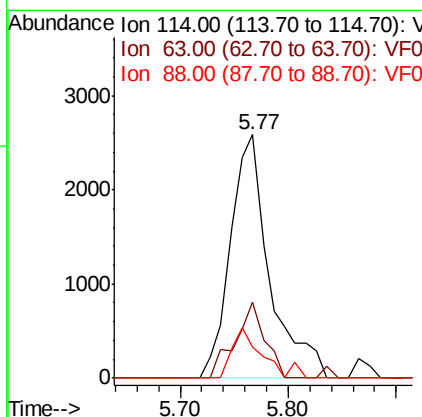
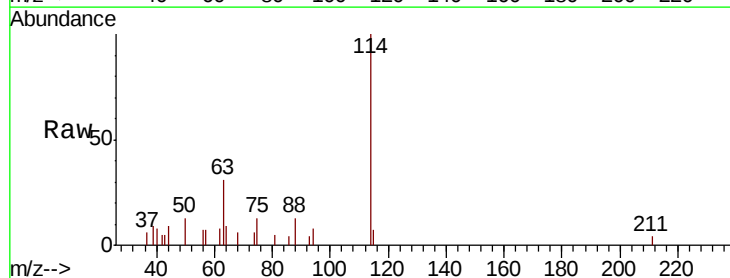
Instrument :
 MSVOA_F
 ClientSampleId :
 DUP-072518

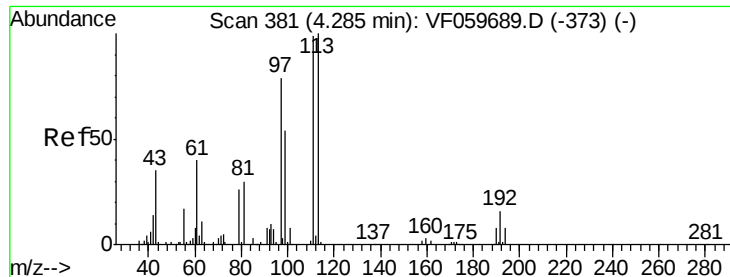
Tot Ion: 65 Resp: 1232
 Ion Ratio Lower Upper
 65 100
 67 28.6 0.0 84.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. 0.00 min
 Lab File: VF059782.D
 Acq: 2 Aug 2018 5:19

Tgt Ion:114 Resp: 6514
 Ion Ratio Lower Upper
 114 100
 63 31.2 0.0 47.4
 88 13.0 0.0 41.2





#35

Dibromofluoromethane

Concen: 31.56 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.01 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampled :

DUP-072518

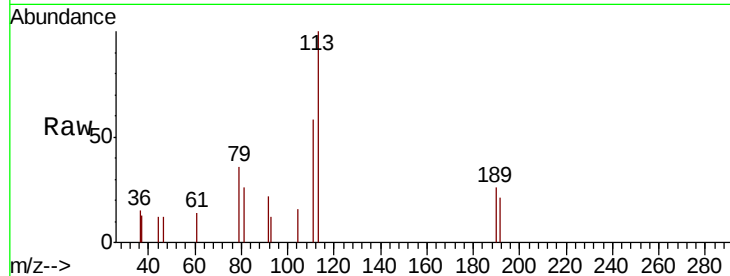
Tot Ion:113 Resp: 2135

Ion Ratio Lower Upper

113 100

111 58.2 79.0 118.4#

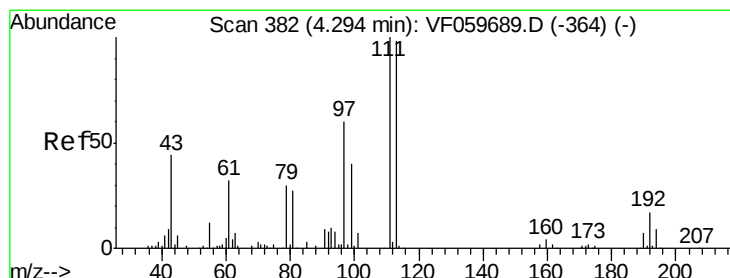
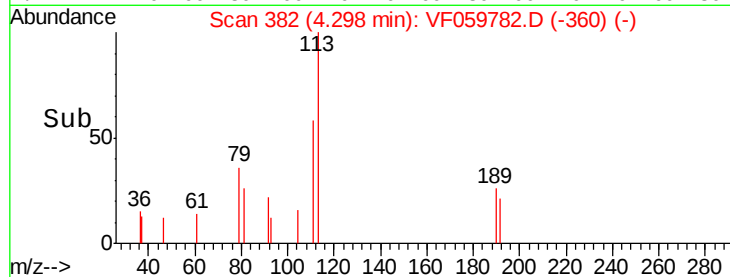
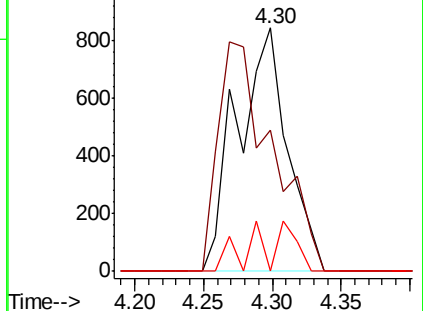
192 0.0 13.2 19.8#



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



#37

Ethyl Acetate

Concen: Below Cal

RT: 4.36 min Scan# 388

Delta R.T. 0.06 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

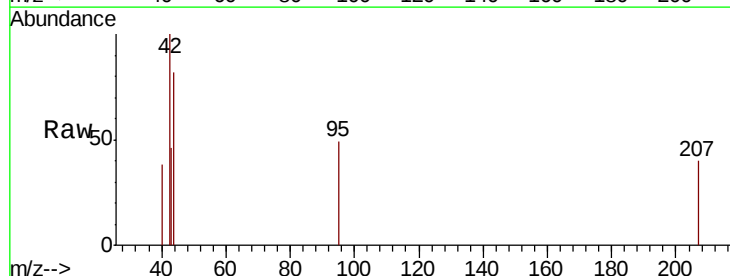
Tgt Ion: 43 Resp: 73

Ion Ratio Lower Upper

43 100

61 0.0 58.2 87.2#

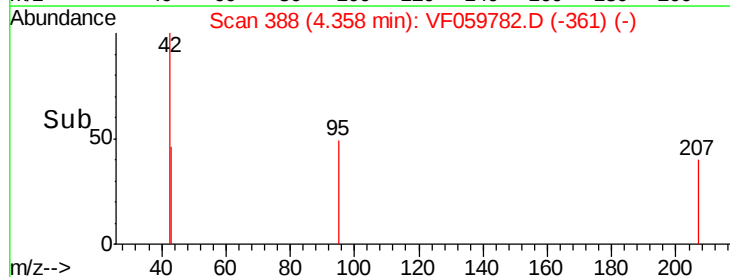
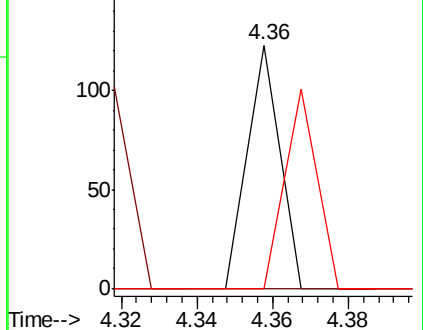
70 0.0 6.0 9.0#

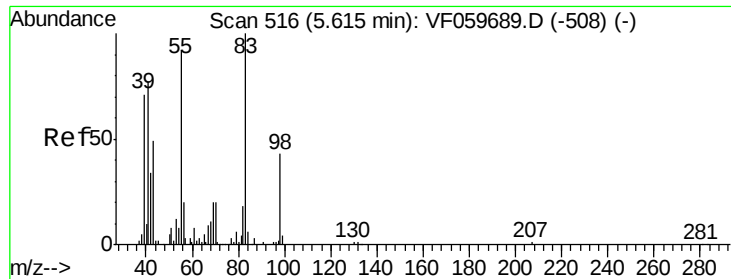


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

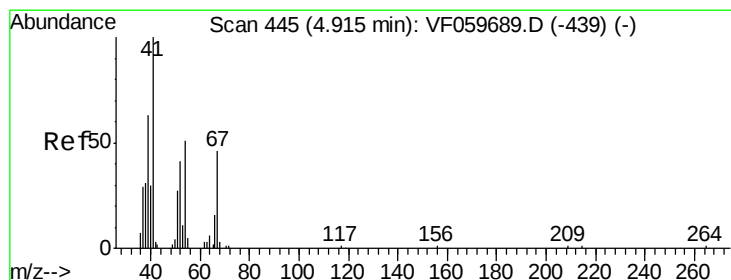
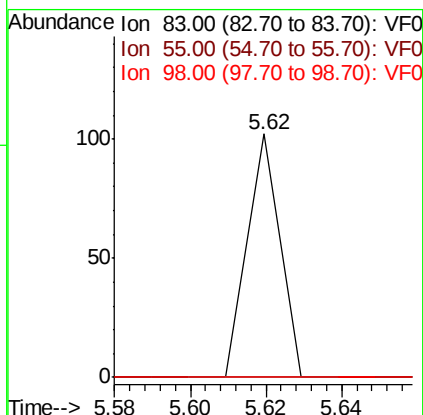
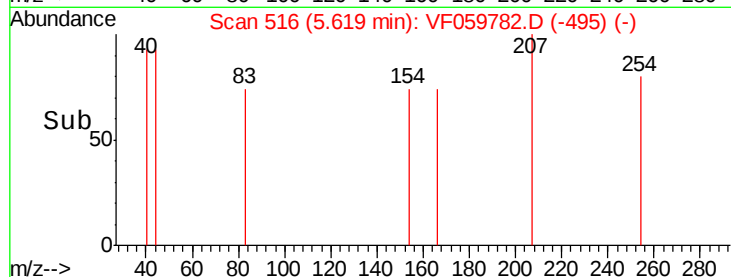
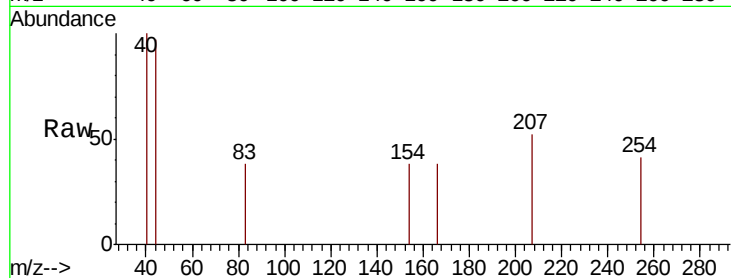




#39
Methylcyclohexane
Concen: Below Cal
RT: 5.62 min Scan# 516
Delta R.T. 0.00 min
Lab File: VF059782.D
Acq: 2 Aug 2018 5:19

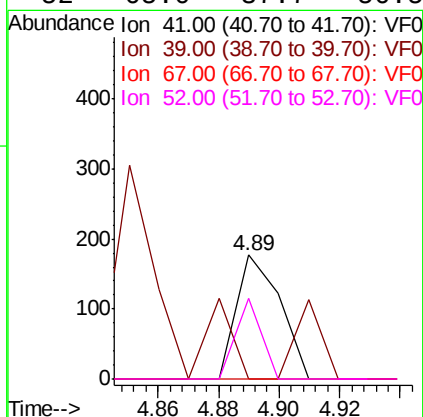
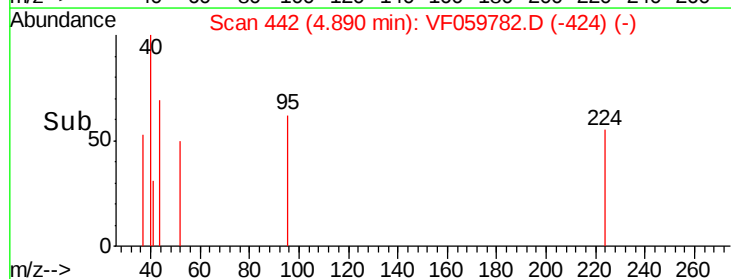
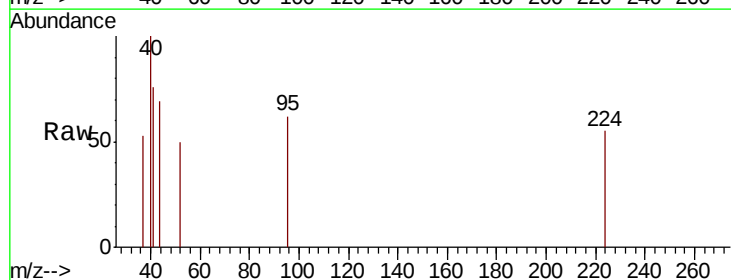
Instrument :
MSVOA_F
ClientSampleId :
DUP-072518

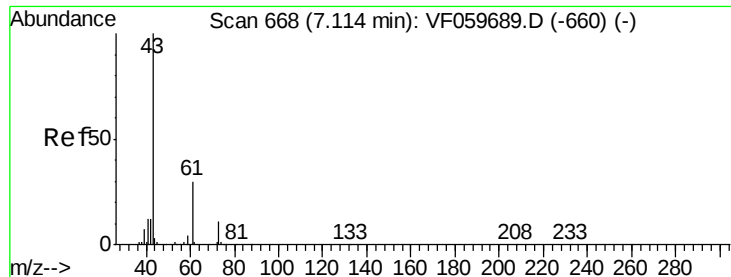
Tot Ion: 83 Resp: 60
Ion Ratio Lower Upper
83 100
55 0.0 73.4 110.2#
98 0.0 34.2 51.4#



#41
Methacrylonitrile
Concen: 8.46 ug/l
RT: 4.89 min Scan# 442
Delta R.T. -0.03 min
Lab File: VF059782.D
Acq: 2 Aug 2018 5:19

Tgt Ion: 41 Resp: 177
Ion Ratio Lower Upper
41 100
39 0.0 55.2 82.8#
67 0.0 36.2 54.2#
52 65.0 37.7 56.5#





#43

Isopropyl Acetate

Concen: 8.37 ug/l

RT: 7.13 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

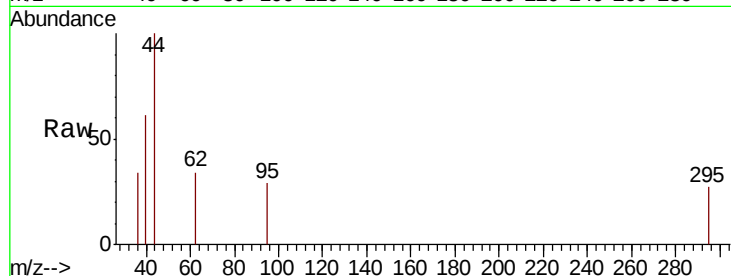
Tot Ion: 43 Resp: 326

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.8#

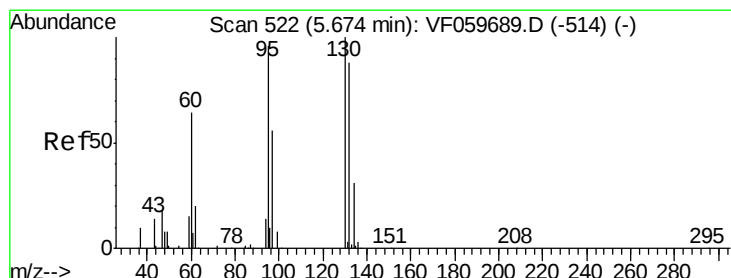
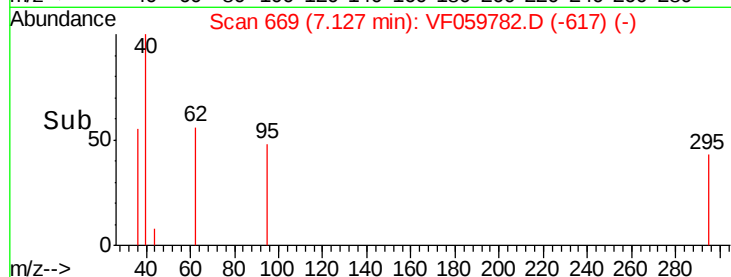
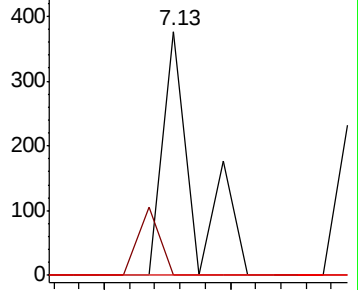
87 0.0 0.6 1.0#



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: 5.79 min Scan# 533

Delta R.T. 0.11 min

Lab File: VF059782.D

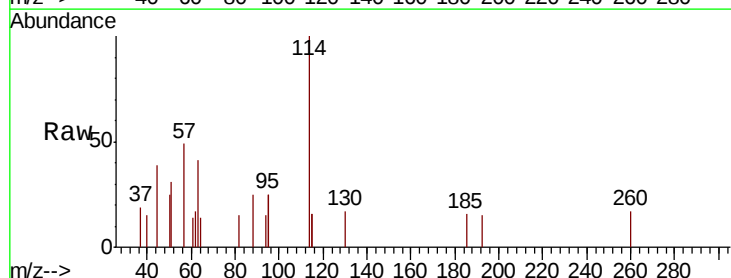
Acq: 2 Aug 2018 5:19

Tgt Ion:130 Resp: 73

Ion Ratio Lower Upper

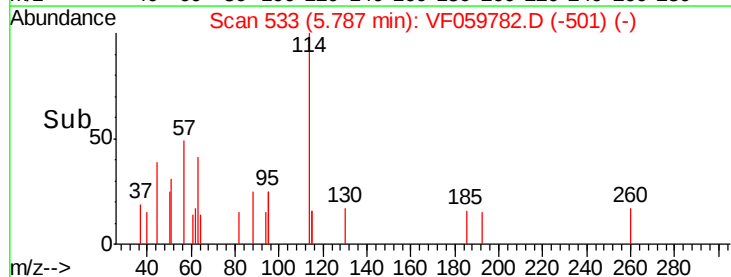
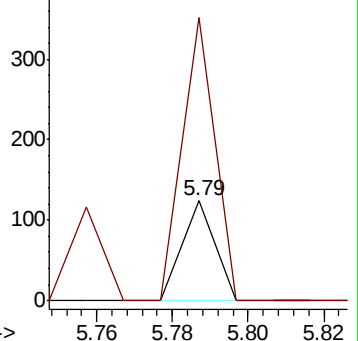
130 100

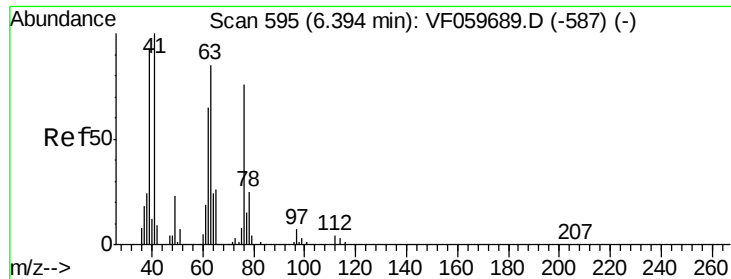
95 283.9 0.0 191.0#



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 2.53 ug/l

RT: 6.31 min Scan# 586

Delta R.T. -0.08 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

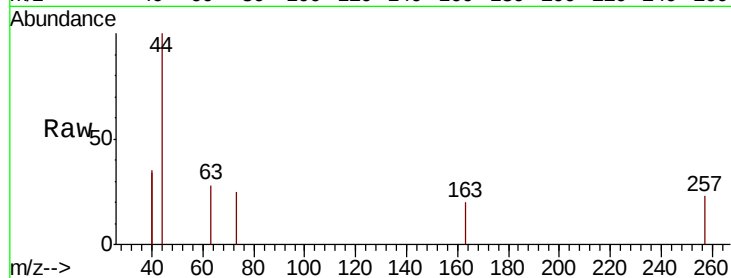
DUP-072518

Tot Ion: 63 Resp: 88

Ion Ratio Lower Upper

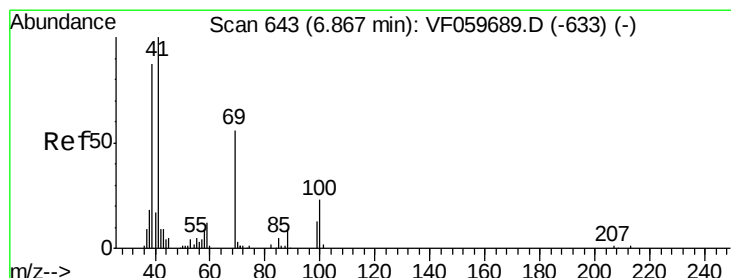
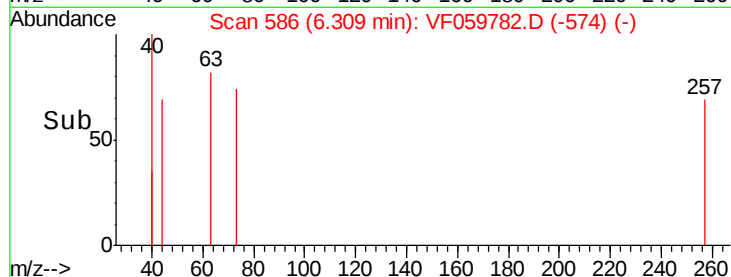
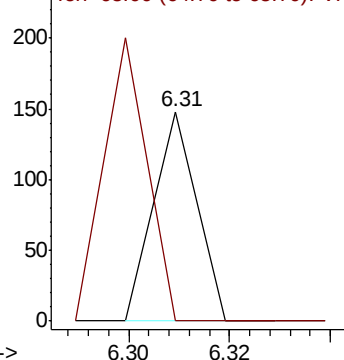
63 100

65 0.0 25.2 37.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#48

Methyl methacrylate

Concen: 2.12 ug/l

RT: 6.85 min Scan# 641

Delta R.T. -0.02 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

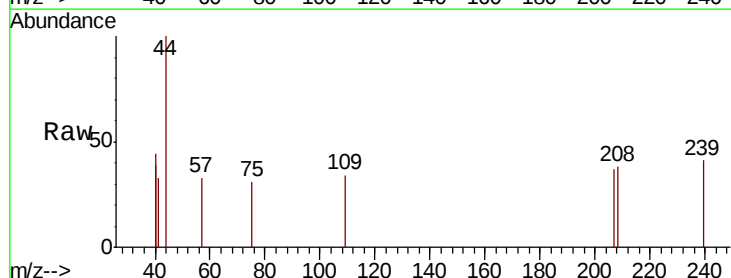
Tgt Ion: 41 Resp: 62

Ion Ratio Lower Upper

41 100

69 0.0 44.4 66.6#

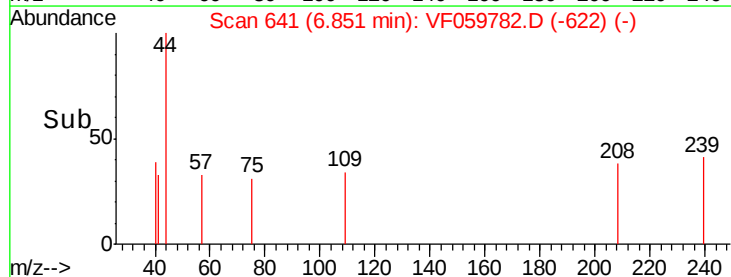
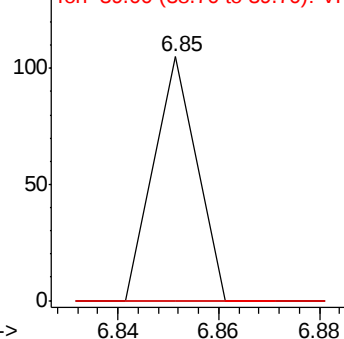
39 0.0 69.4 104.2#

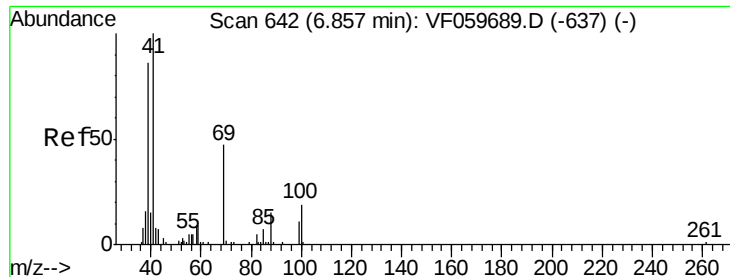


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 280.37 ug/l

RT: 6.92 min Scan# 648

Delta R.T. 0.06 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

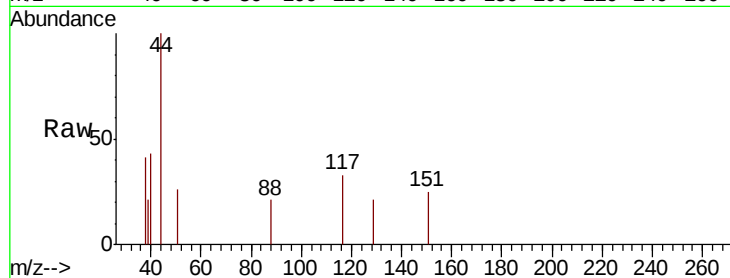
Tot Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 0.0 45.2 67.8#

58 0.0 49.0 73.6#

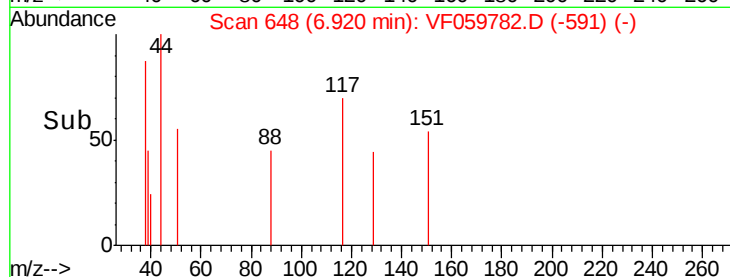


Abundance Ion 88.00 (87.70 to 88.70): VF0

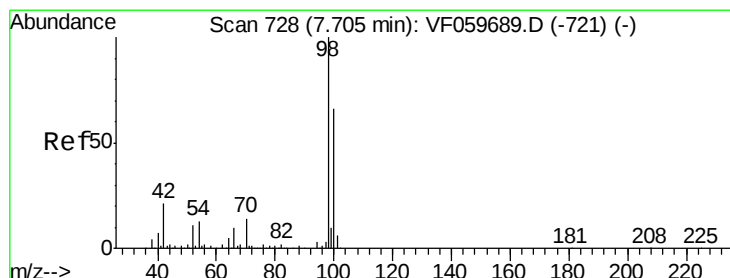
Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

6.92



Time-->



#50

Toluene-d8

Concen: 25.31 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.00 min

Lab File: VF059782.D

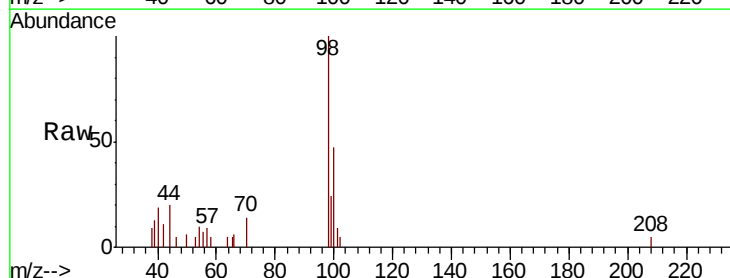
Acq: 2 Aug 2018 5:19

Tgt Ion: 98 Resp: 3994

Ion Ratio Lower Upper

98 100

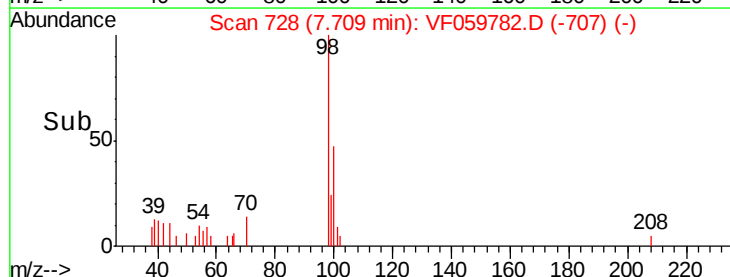
100 46.7 52.8 79.2#



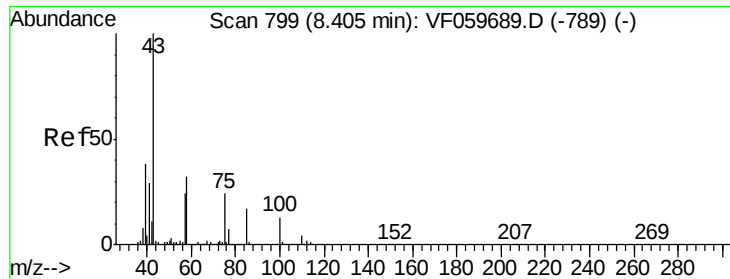
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71



Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.13 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.02 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

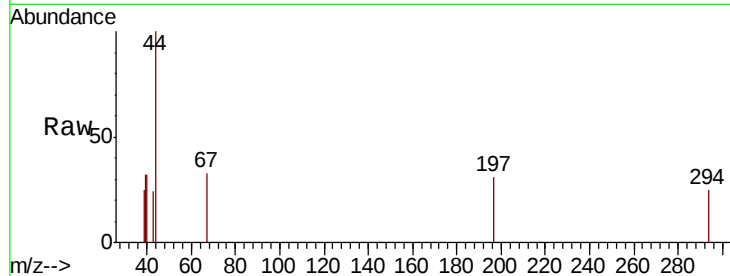
DUP-072518

Tot Ion: 43 Resp: 63

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

8.43

100

80

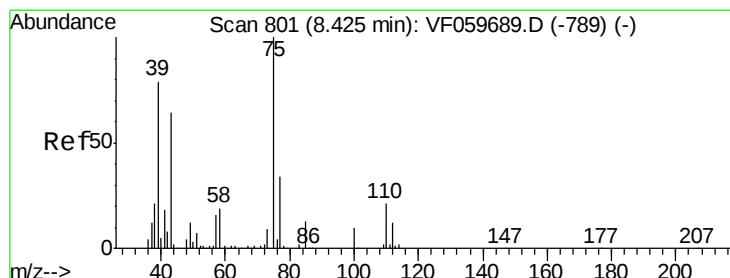
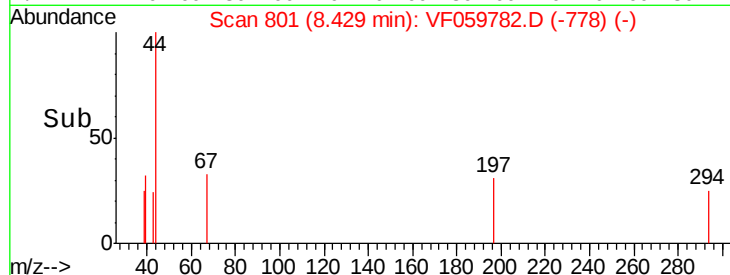
60

40

20

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 1.37 ug/l

RT: 8.56 min Scan# 814

Delta R.T. 0.13 min

Lab File: VF059782.D

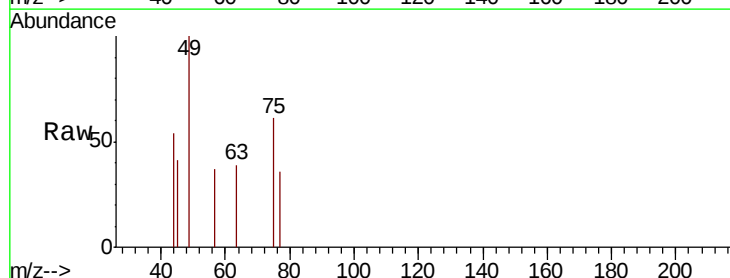
Acq: 2 Aug 2018 5:19

Tgt Ion: 75 Resp: 107

Ion Ratio Lower Upper

75 100

77 59.1 27.0 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.56

200

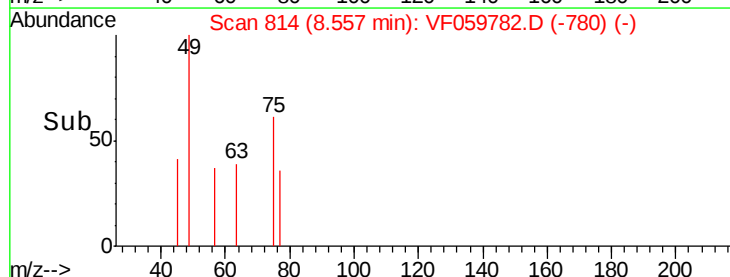
150

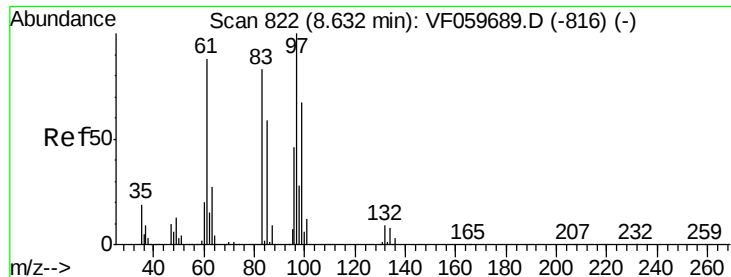
100

50

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 3.87 ug/l

RT: 8.50 min Scan# 808

Delta R.T. -0.13 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

Tot Ion: 97 Resp: 138

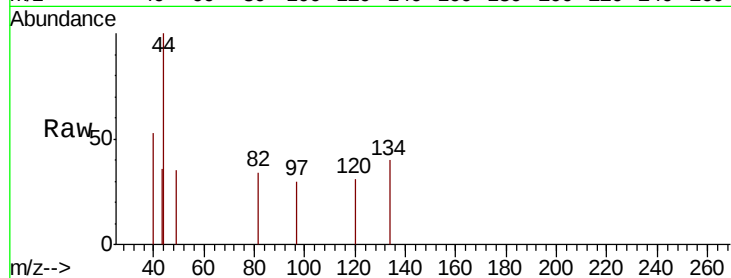
Ion Ratio Lower Upper

97 100

83 0.0 66.6 100.0#

85 0.0 47.4 71.0#

99 0.0 53.2 79.8#

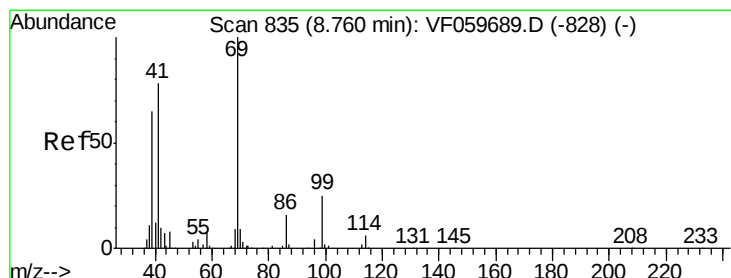
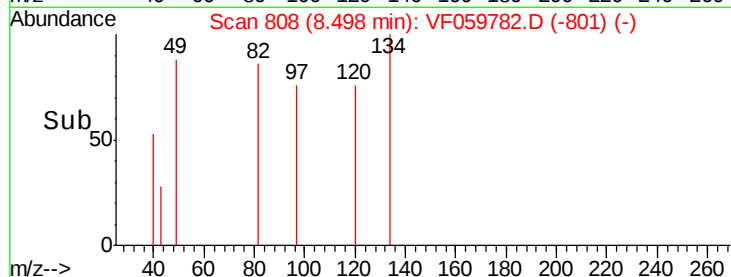
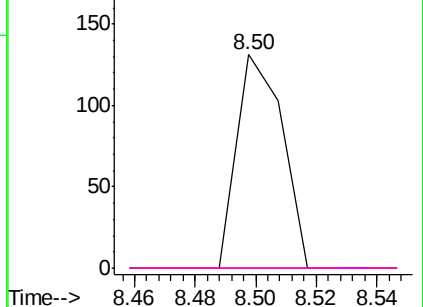


Abundance Ion 97.00 (96.70 to 97.70): VF0

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



#56

Ethyl methacrylate

Concen: 1.61 ug/l

RT: 8.75 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

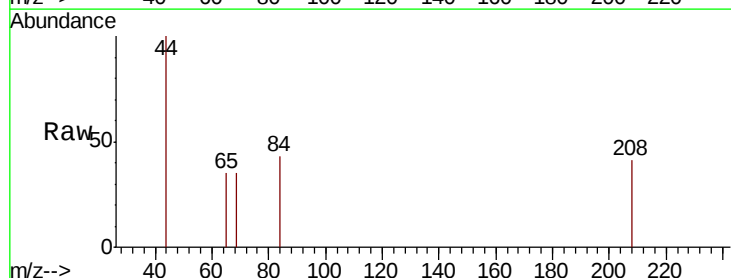
Tgt Ion: 69 Resp: 60

Ion Ratio Lower Upper

69 100

41 0.0 62.3 93.5#

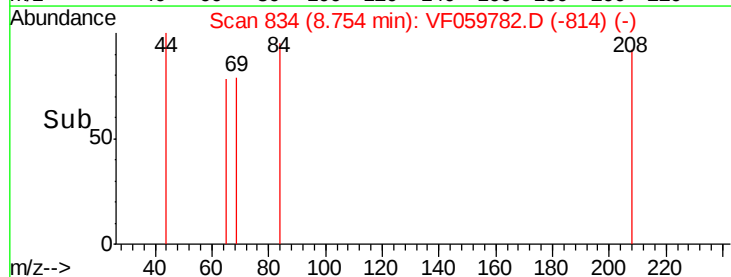
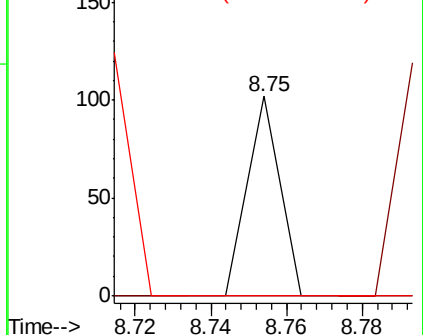
39 0.0 52.4 78.6#

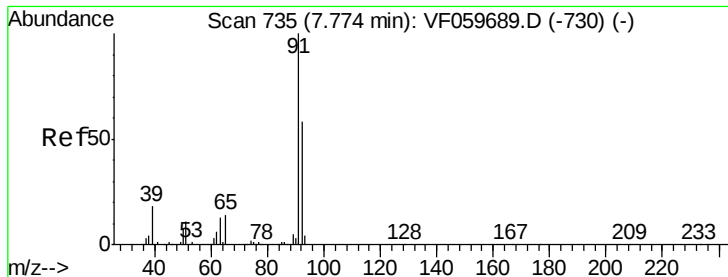


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 14.69 ug/l

RT: 7.86 min Scan# 743

Delta R.T. 0.08 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

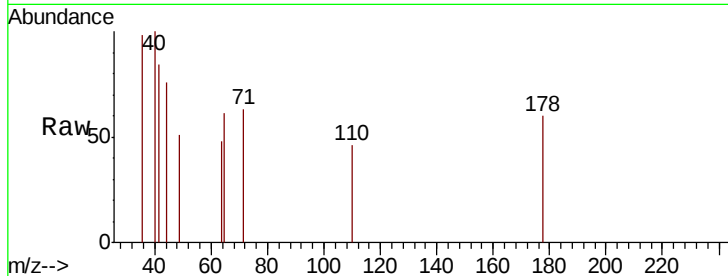
DUP-072518

Tot Ion: 63 Resp: 63

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): V

7.86

100

80

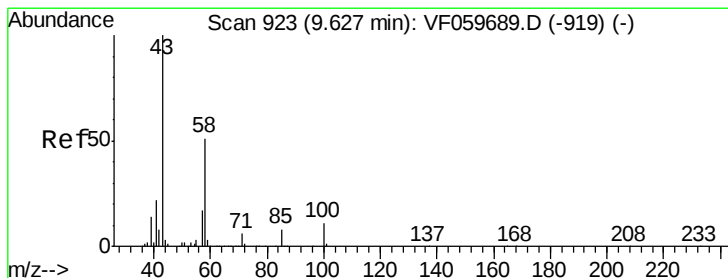
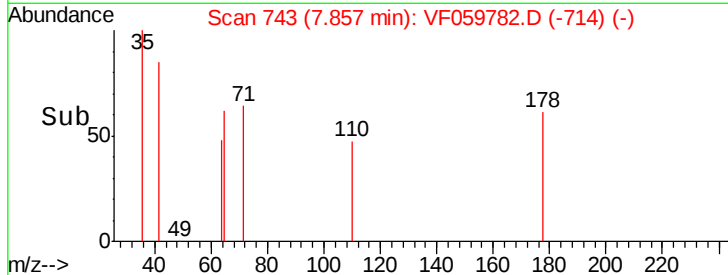
60

40

20

0

Time--> 7.82 7.84 7.86 7.88



#59

2-Hexanone

Concen: 6.53 ug/l

RT: 9.62 min Scan# 922

Delta R.T. -0.01 min

Lab File: VF059782.D

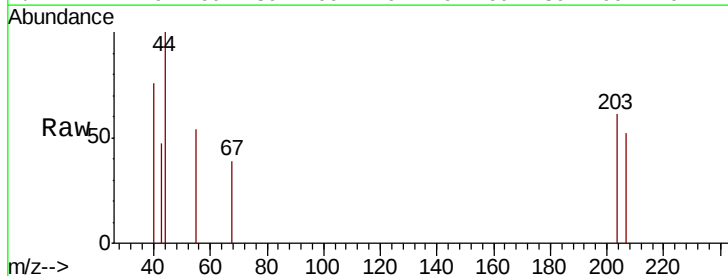
Acq: 2 Aug 2018 5:19

Tgt Ion: 43 Resp: 155

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

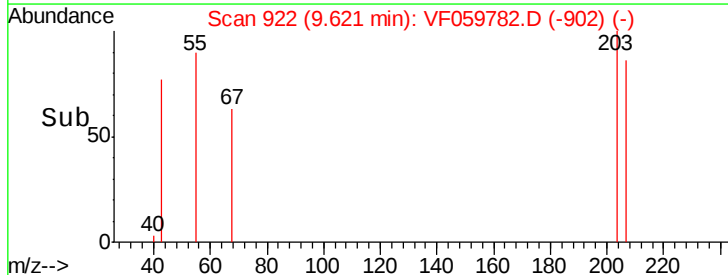
150

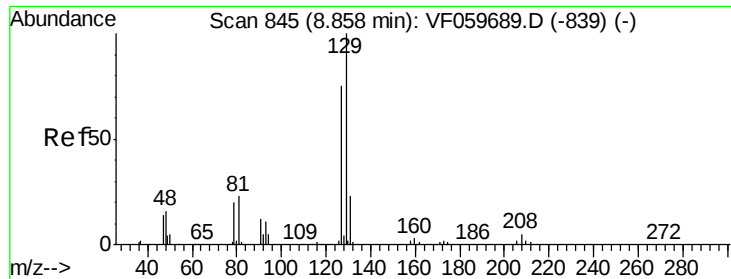
100

50

0

Time--> 9.58 9.60 9.62 9.64 9.66





#60

Dibromochloromethane

Concen: 1.11 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.09 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

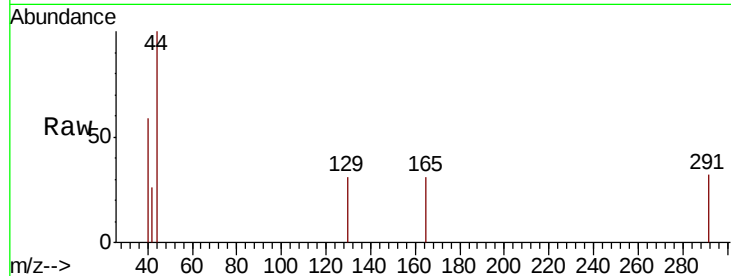
DUP-072518

Tot Ion:129 Resp: 70

Ion Ratio Lower Upper

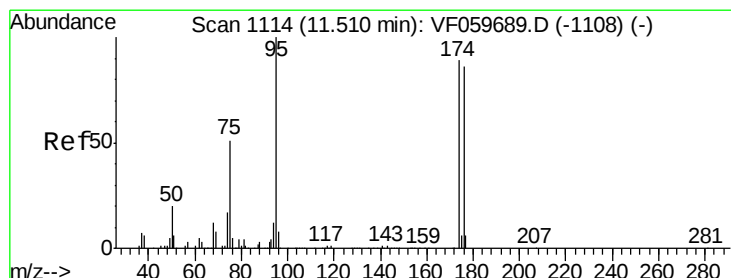
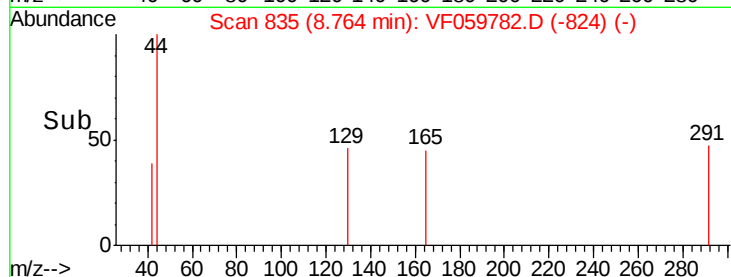
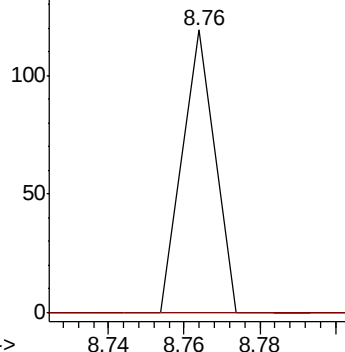
129 100

127 0.0 37.7 113.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#62

4-Bromofluorobenzene

Concen: 8.03 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

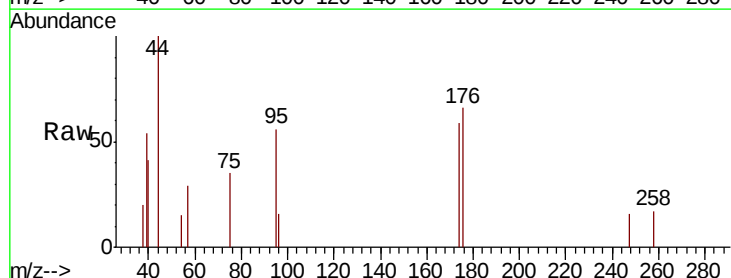
Tgt Ion: 95 Resp: 701

Ion Ratio Lower Upper

95 100

174 105.7 0.0 178.4

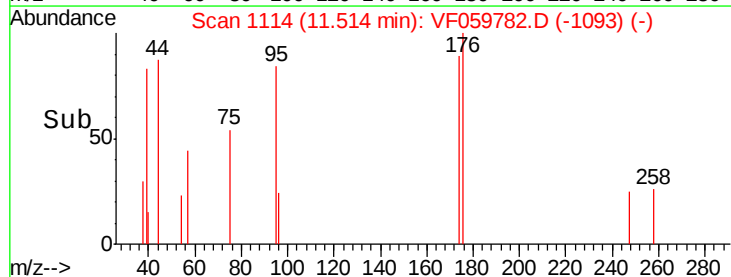
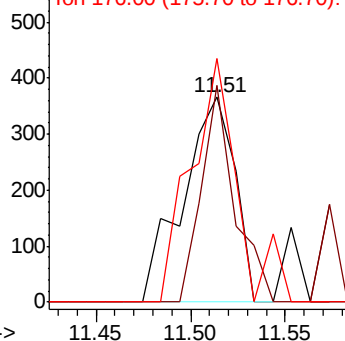
176 118.9 0.0 173.0

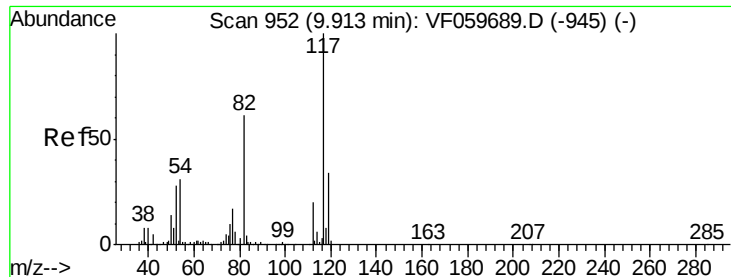


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

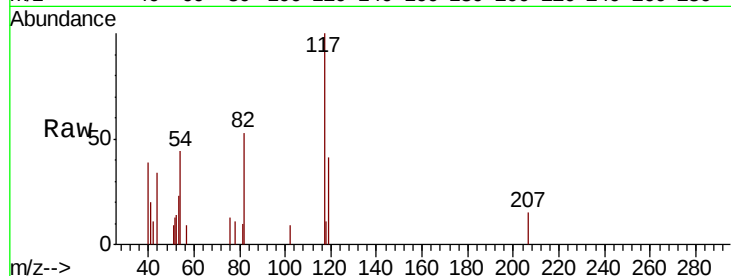




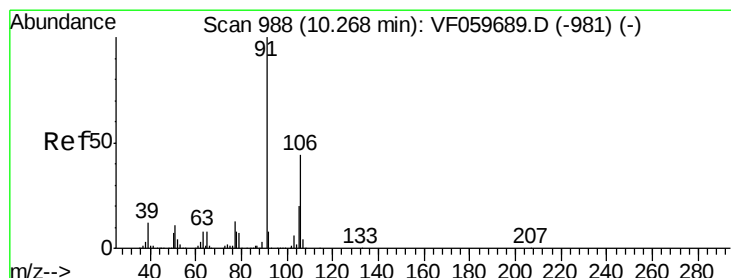
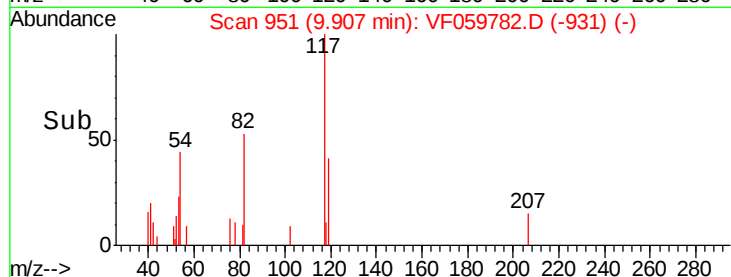
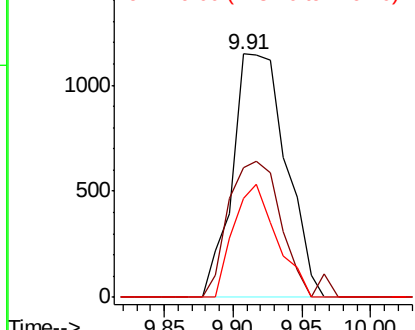
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF059782.D
Acq: 2 Aug 2018 5:19

Instrument :
MSVOA_F
ClientSampleId :
DUP-072518

Tot Ion	Ion	Ratio	Lower	Upper
117	100			
82	53.4	49.0	73.4	
119	40.6	27.3	40.9	

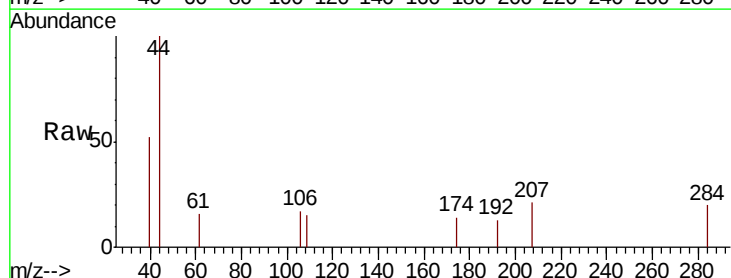


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

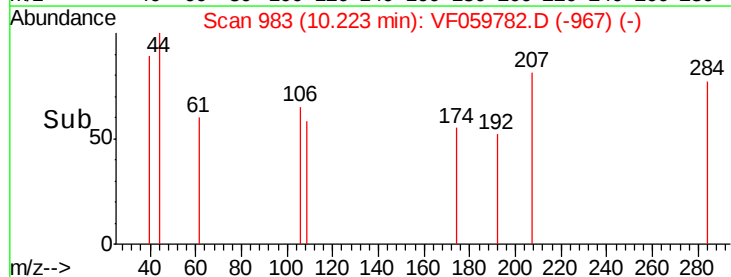
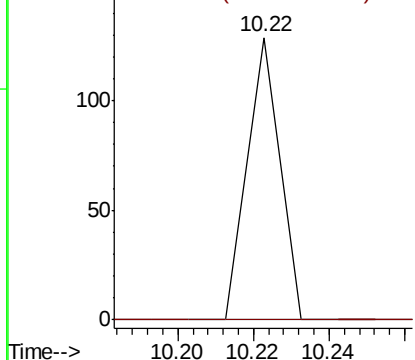


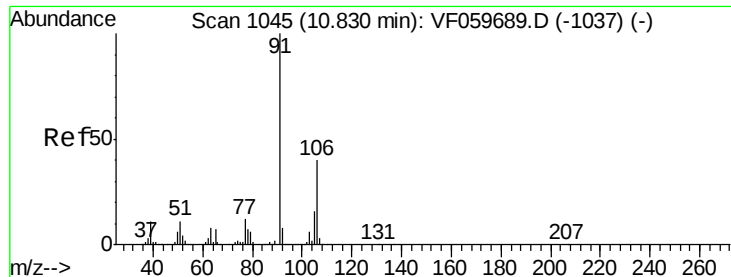
#68
m/p-Xylenes
Concen: Below Cal
RT: 10.22 min Scan# 983
Delta R.T. -0.04 min
Lab File: VF059782.D
Acq: 2 Aug 2018 5:19

Tgt Ion	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

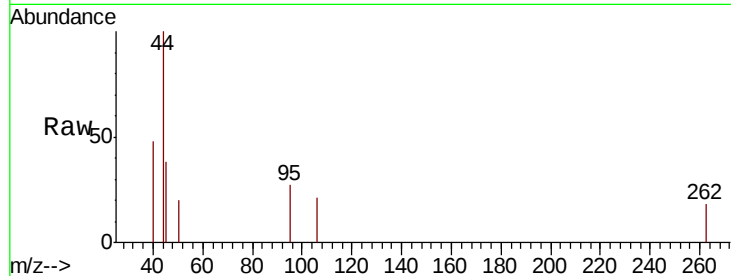




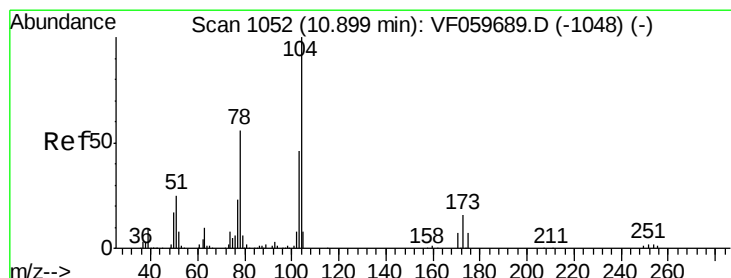
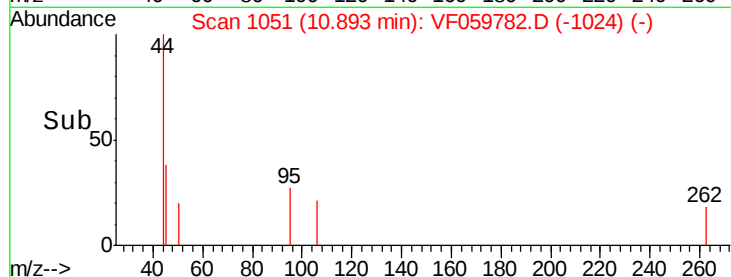
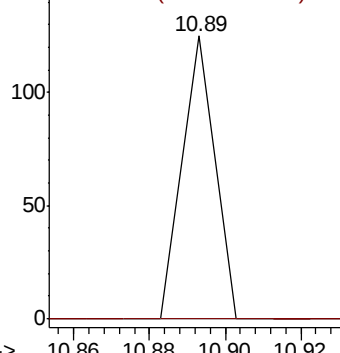
#69
o-Xylene
Concen: 1.86 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.06 min
Lab File: VF059782.D
Acq: 2 Aug 2018 5:19

Instrument :
MSVOA_F
ClientSampled :
DUP-072518

Tot Ion:106 Resp: 74
Ion Ratio Lower Upper
106 100
91 0.0 124.6 373.7#

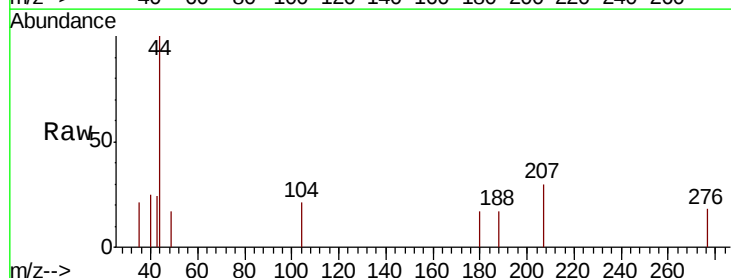


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

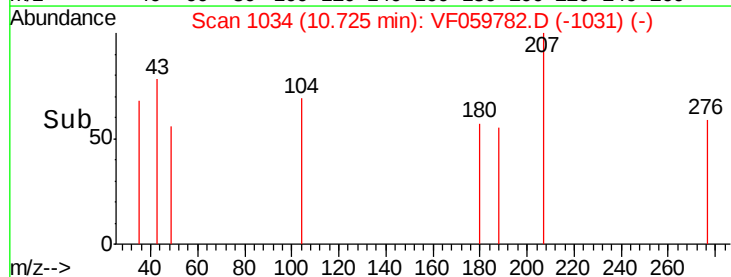
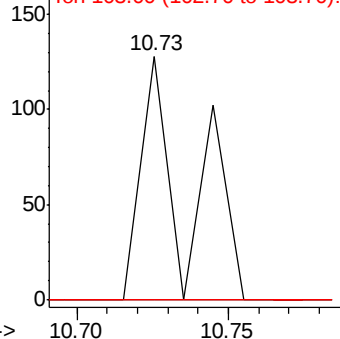


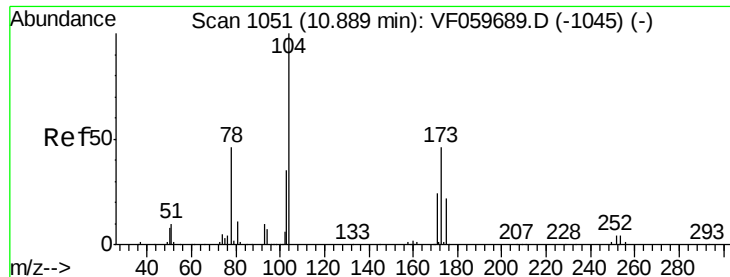
#70
Styrene
Concen: 2.26 ug/l
RT: 10.73 min Scan# 1034
Delta R.T. -0.17 min
Lab File: VF059782.D
Acq: 2 Aug 2018 5:19

Tgt Ion:104 Resp: 136
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: 3.80 ug/l

RT: 10.72 min Scan# 1033

Delta R.T. -0.17 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

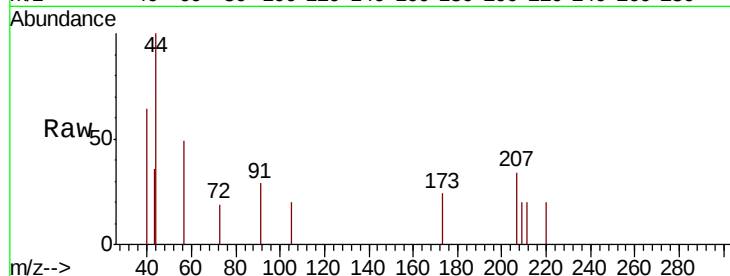
Tot Ion:173 Resp: 72

Ion Ratio Lower Upper

173 100

175 0.0 23.4 70.0#

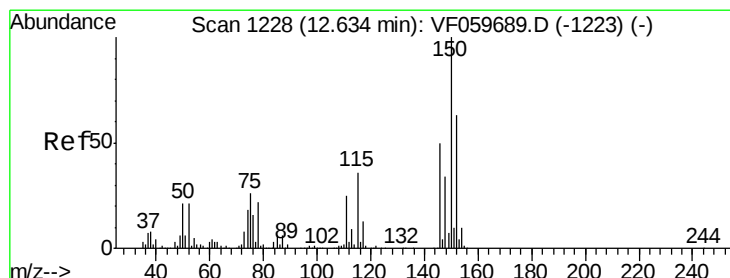
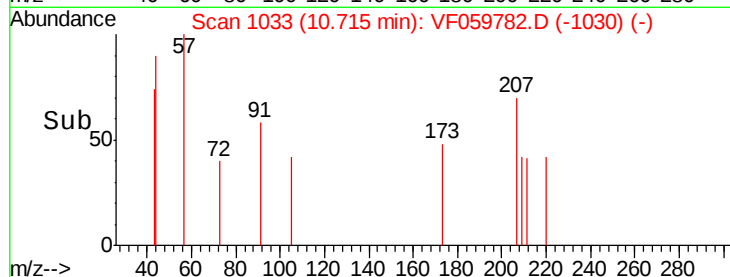
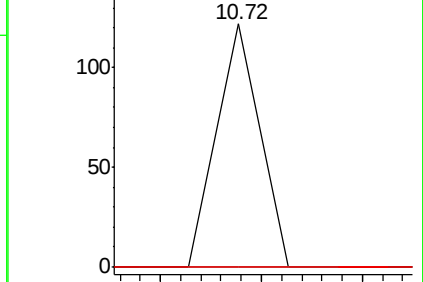
254 0.0 0.0 0.0



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: 50.00 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

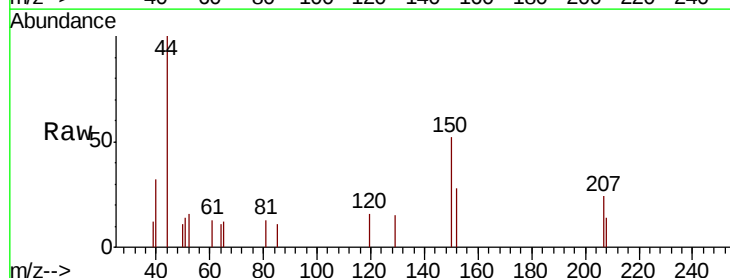
Tgt Ion:152 Resp: 425

Ion Ratio Lower Upper

152 100

115 0.0 28.2 84.6#

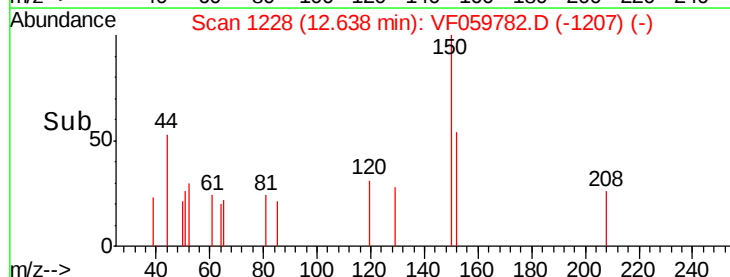
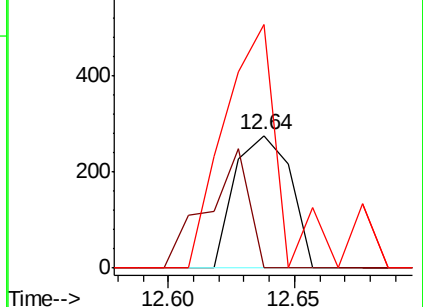
150 184.0 0.0 316.2

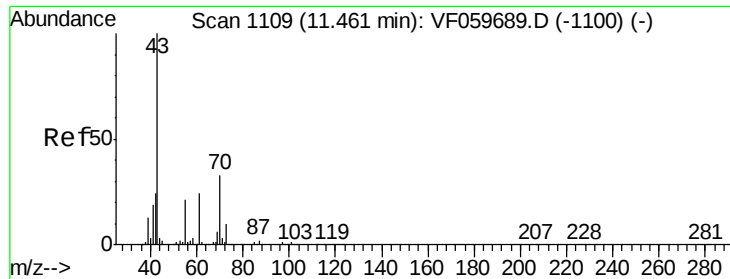


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 9.10 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

Tot Ion: 43 Resp: 64

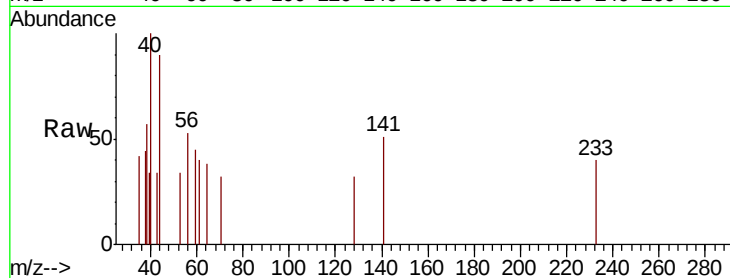
Ion Ratio Lower Upper

43 100

70 94.4 26.3 39.5#

55 0.0 16.6 25.0#

61 117.6 19.1 28.7#

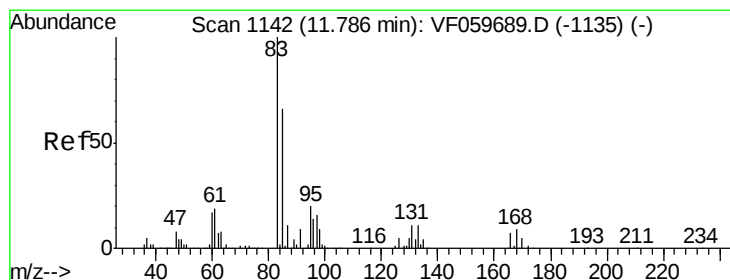
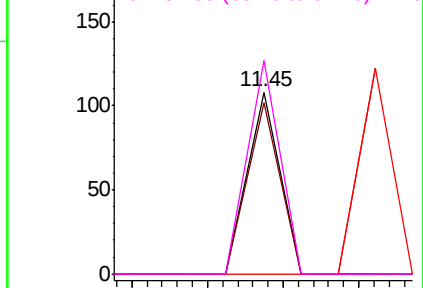
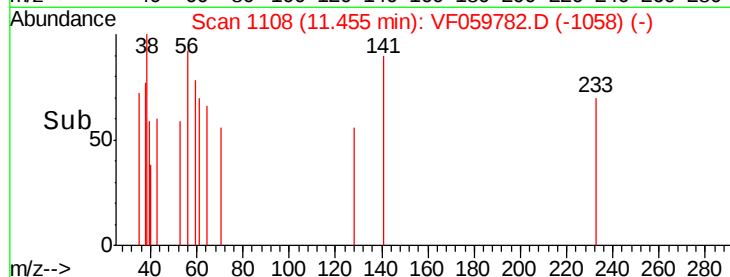


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 11.43 ug/l

RT: 11.70 min Scan# 1133

Delta R.T. -0.08 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

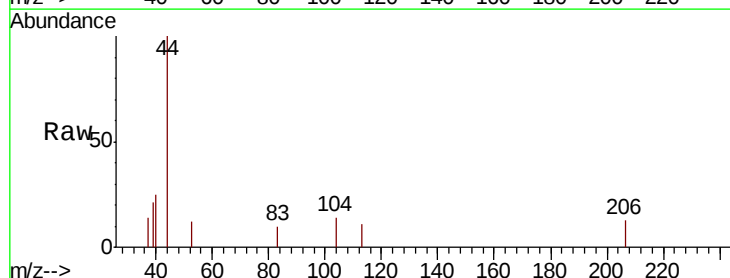
Tgt Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.3#

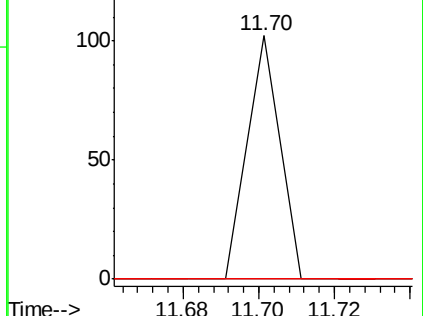
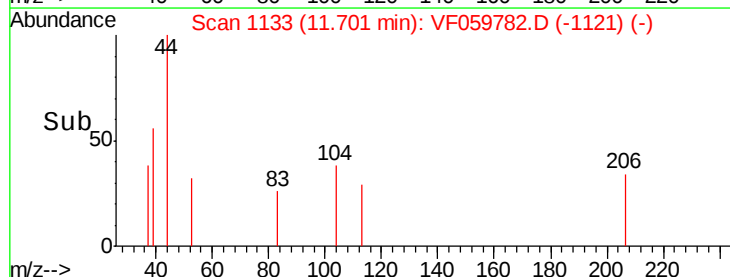
85 0.0 32.8 98.3#

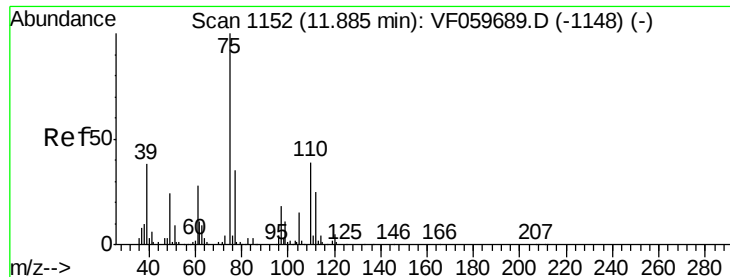


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 33.16 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

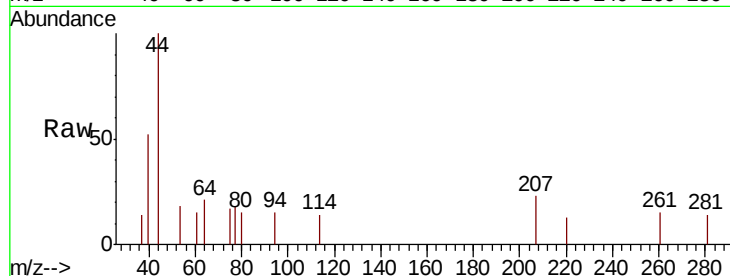
DUP-072518

Tot Ion: 75 Resp: 148

Ion Ratio Lower Upper

75 100

77 102.2 18.0 54.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

150

100

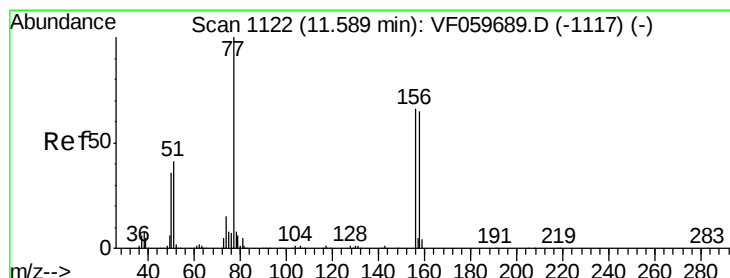
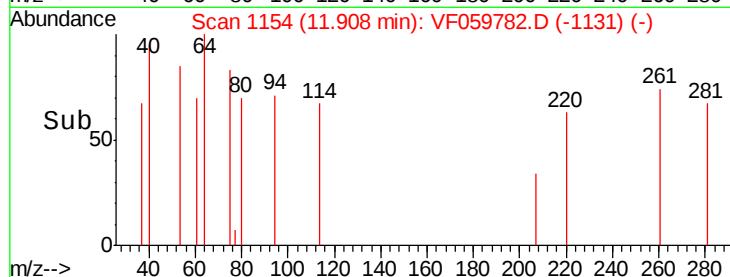
50

0

11.90

11.95

Time-->



#77

Bromobenzene

Concen: 8.51 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. 0.02 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

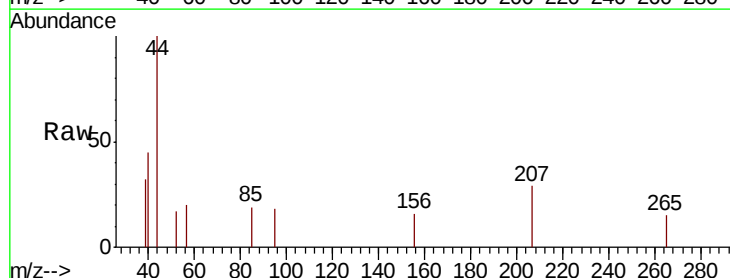
Tgt Ion: 156 Resp: 62

Ion Ratio Lower Upper

156 100

77 0.0 75.2 225.6#

158 0.0 49.1 147.3#



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V

100

50

0

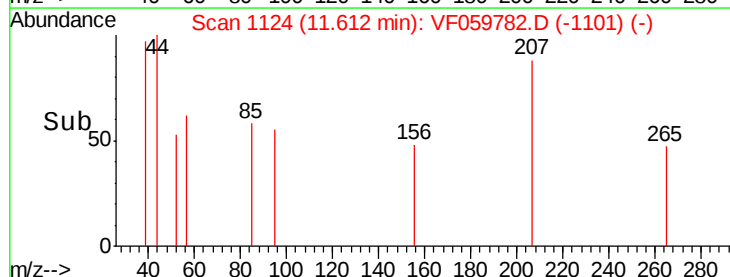
11.58

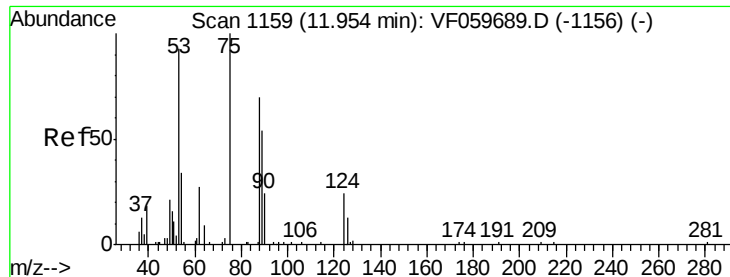
11.60

11.62

11.64

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 80.06 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. -0.05 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

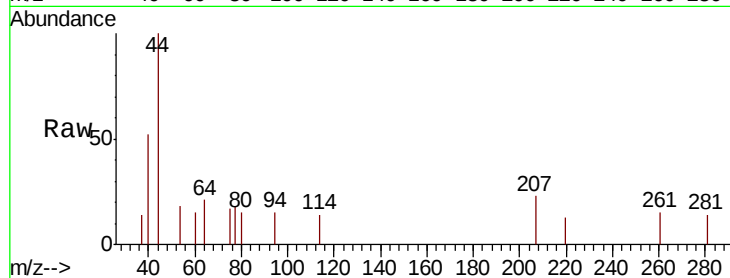
Tot Ion: 75 Resp: 148

Ion Ratio Lower Upper

75 100

53 102.2 78.3 117.5

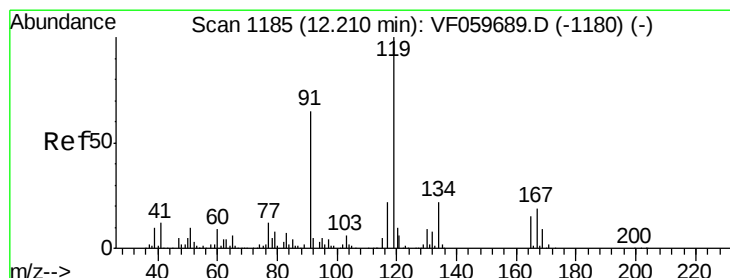
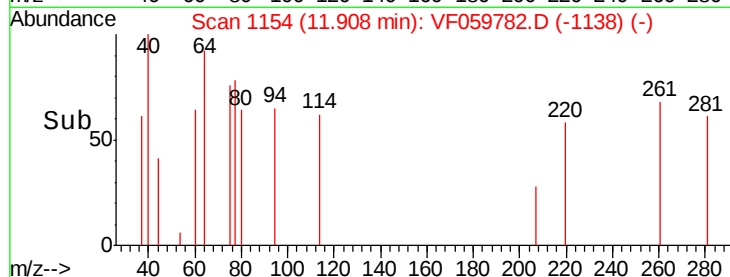
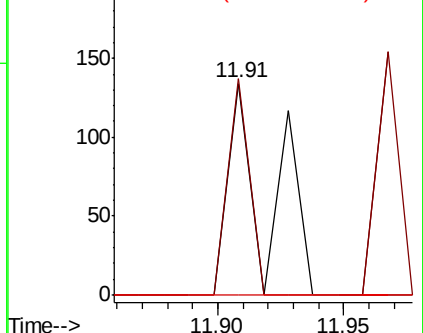
89 0.0 45.4 68.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#83

tert-Butylbenzene

Concen: 2.48 ug/l

RT: 12.34 min Scan# 1198

Delta R.T. 0.13 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

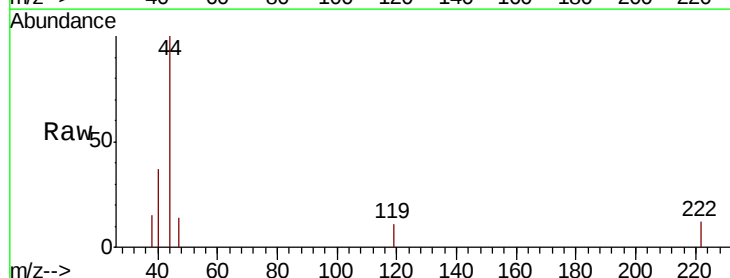
Tgt Ion: 119 Resp: 62

Ion Ratio Lower Upper

119 100

91 0.0 32.8 98.4#

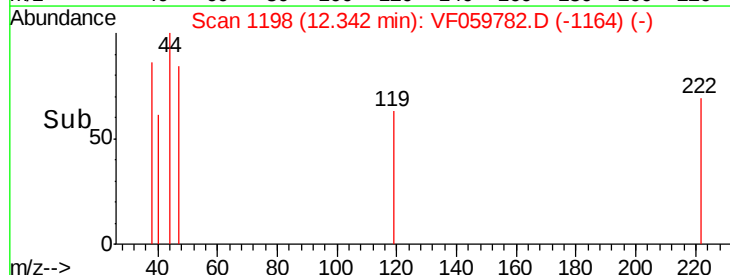
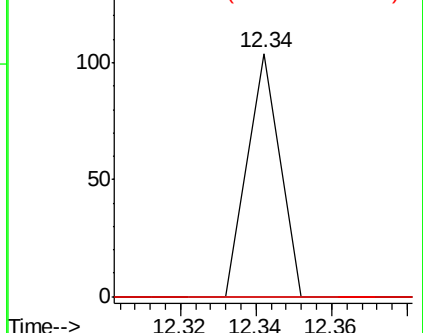
134 0.0 10.9 32.7#

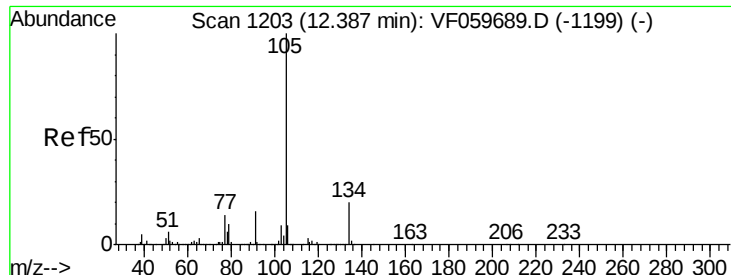


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V





#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.52 min Scan# 1216

Delta R.T. 0.13 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampled :

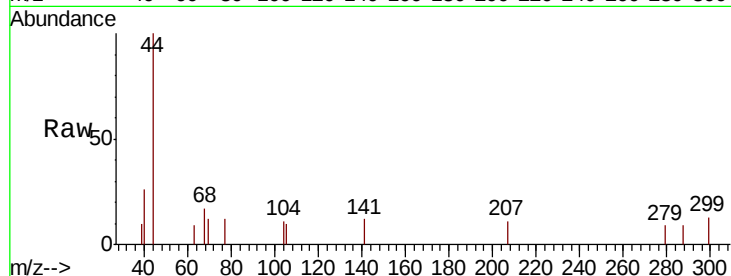
DUP-072518

Tot Ion:105 Resp: 72

Ion Ratio Lower Upper

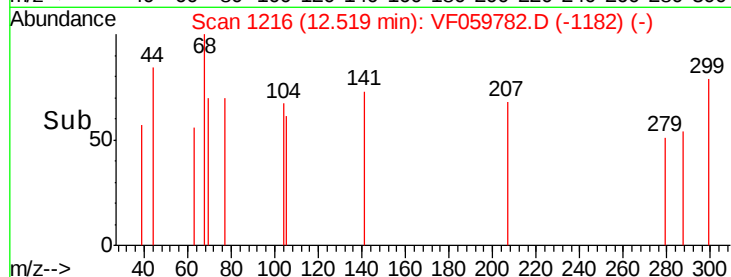
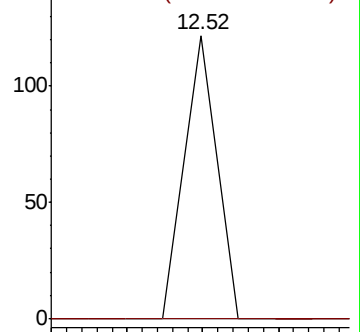
105 100

134 0.0 9.8 29.3#

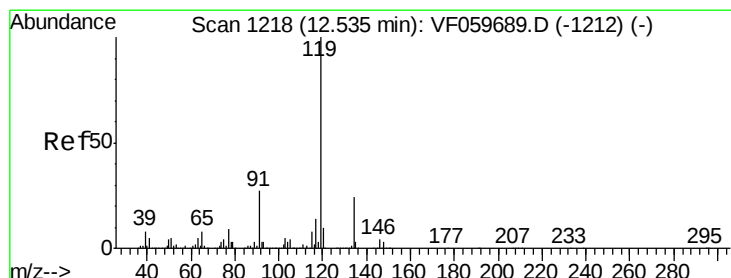


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time--> 12.48 12.50 12.52 12.54



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 12.64 min Scan# 1228

Delta R.T. 0.10 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

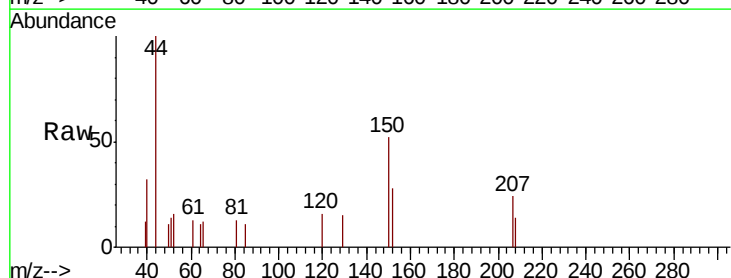
Tgt Ion:119 Resp: 92

Ion Ratio Lower Upper

119 100

134 0.0 12.2 36.6#

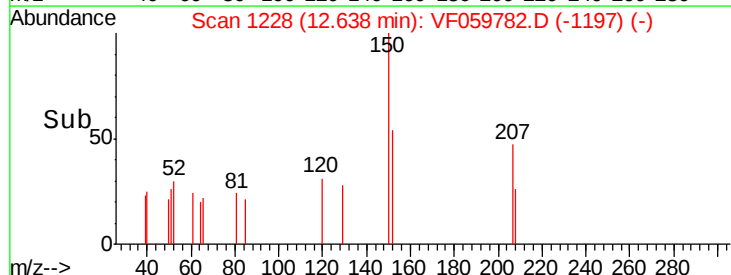
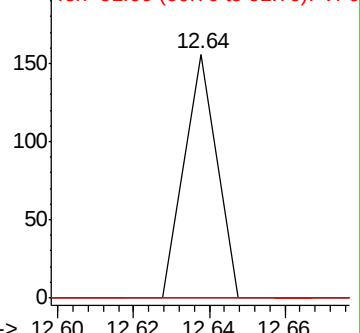
91 0.0 13.4 40.2#



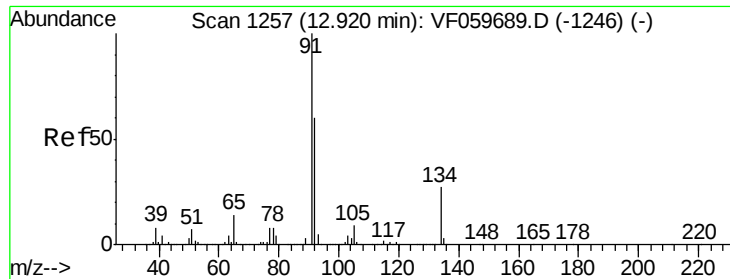
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0



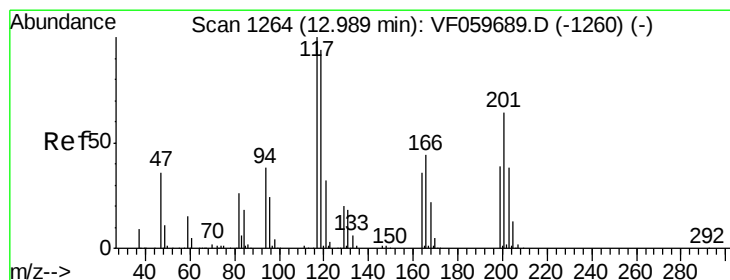
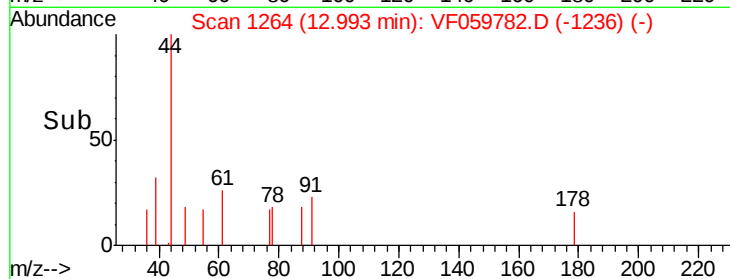
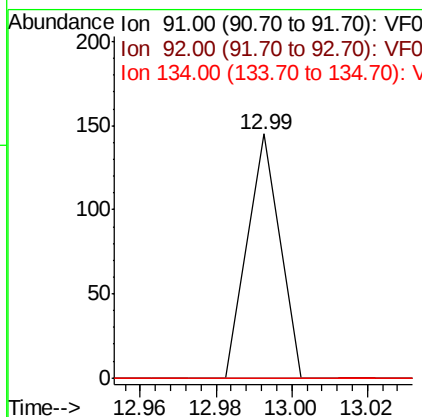
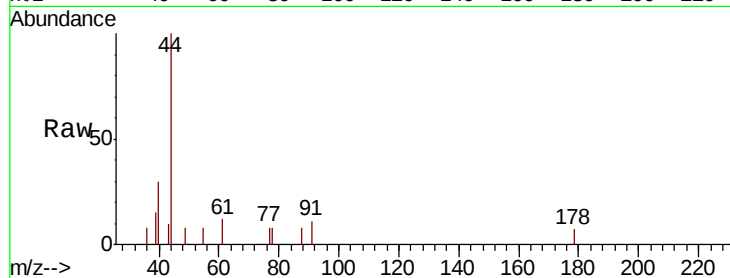
Time--> 12.60 12.62 12.64 12.66



#89
n-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 1264
Delta R.T. 0.07 min
Lab File: VF059782.D
Acq: 2 Aug 2018 5:19

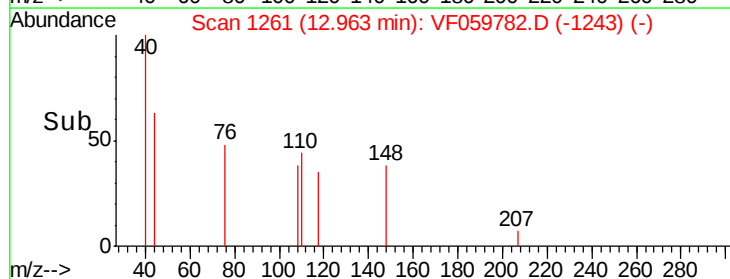
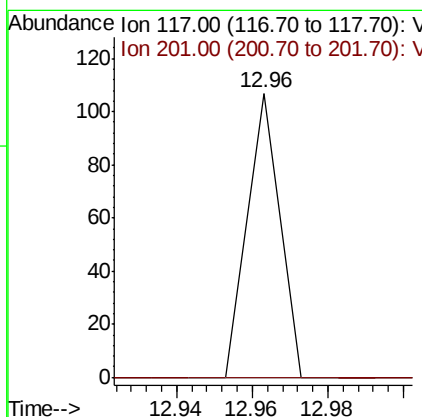
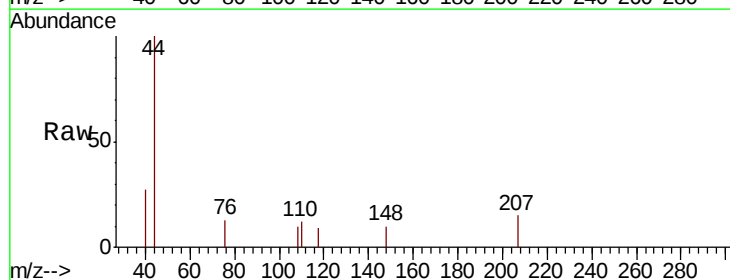
Instrument :
MSVOA_F
ClientSampled :
DUP-072518

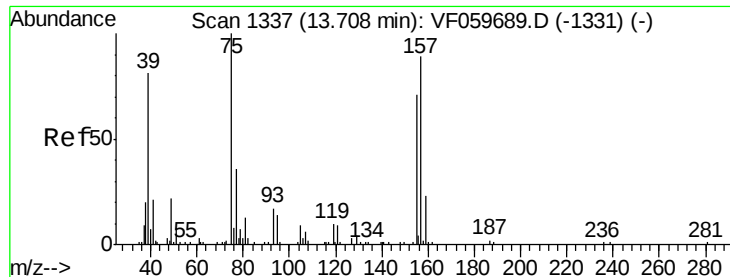
Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	30.1	90.3#
134	0.0	13.7	41.0#



#90
Hexachloroethane
Concen: 8.96 ug/l
RT: 12.96 min Scan# 1261
Delta R.T. -0.03 min
Lab File: VF059782.D
Acq: 2 Aug 2018 5:19

Tgt Ion	Ratio	Lower	Upper
117	100		
201	0.0	31.9	95.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 54.55 ug/l

RT: 13.83 min Scan# 1349

Delta R.T. 0.12 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

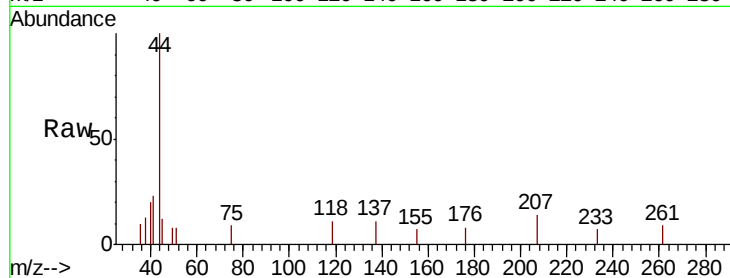
Tot Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

155 86.6 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

13.83

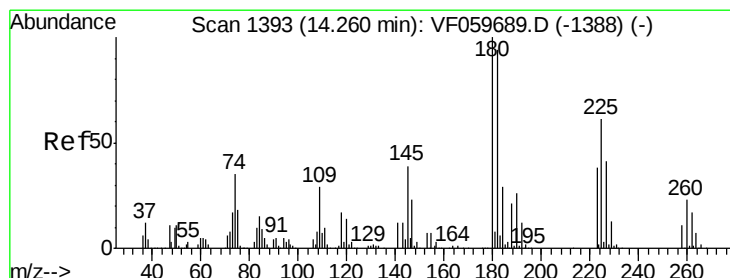
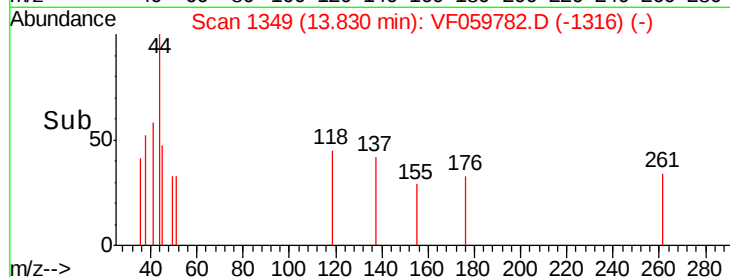
100

50

0

13.80 13.82 13.84 13.86

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 4.26 ug/l

RT: 14.25 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

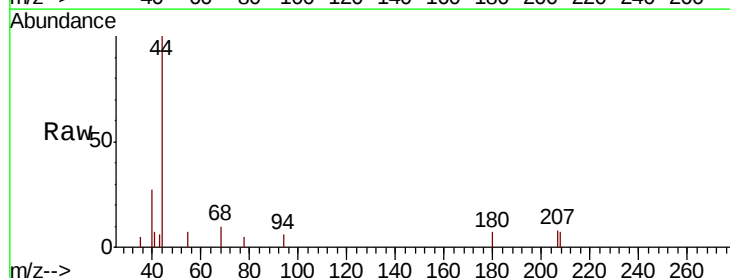
Tgt Ion:180 Resp: 80

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

14.25

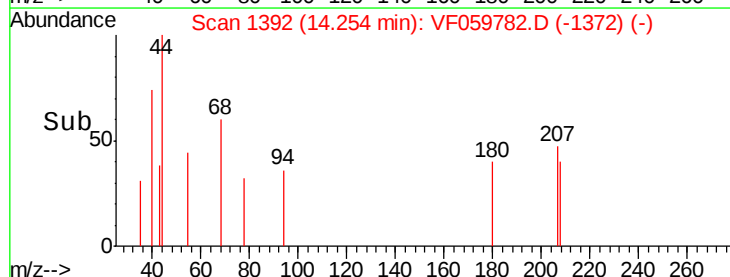
100

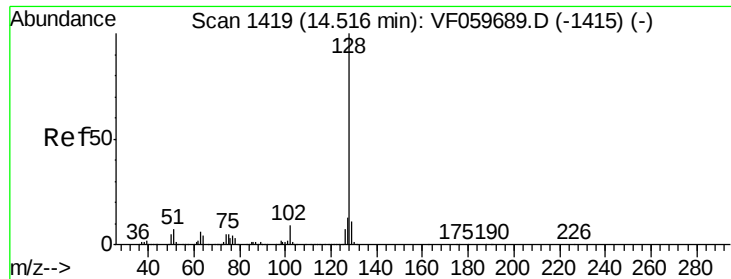
50

0

14.22 14.24 14.26 14.28

Time-->





#95

Naphthalene

Concen: 5.08 ug/l

RT: 14.47 min Scan# 1414

Delta R.T. -0.05 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

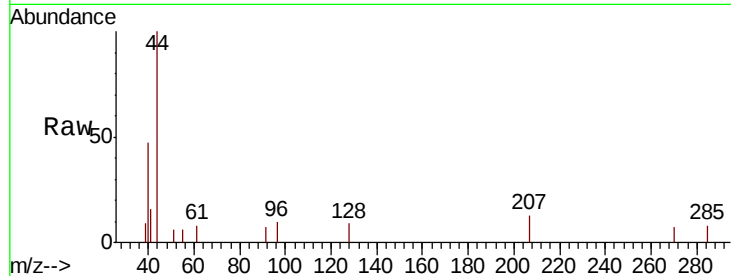
Tot Ion:128 Resp: 93

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

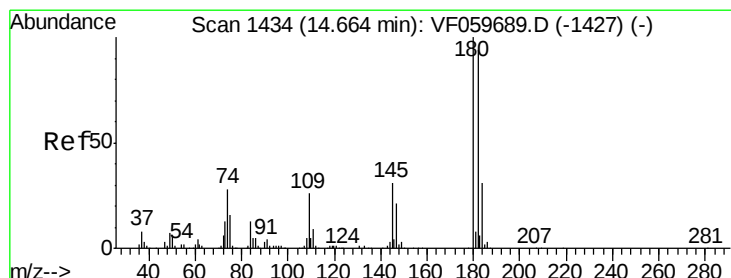
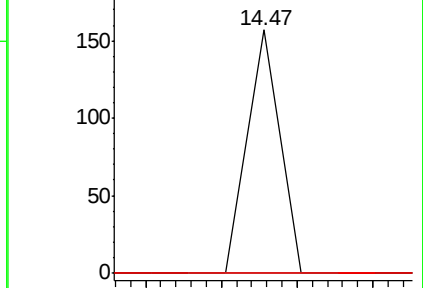
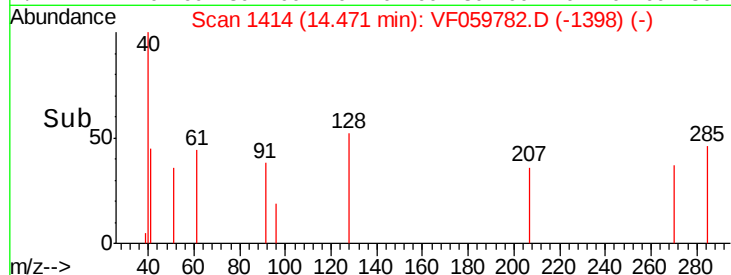
129 0.0 8.6 13.0#



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



#96

1,2,3-Trichlorobenzene

Concen: 6.71 ug/l

RT: 14.60 min Scan# 1427

Delta R.T. -0.07 min

Lab File: VF059782.D

Acq: 2 Aug 2018 5:19

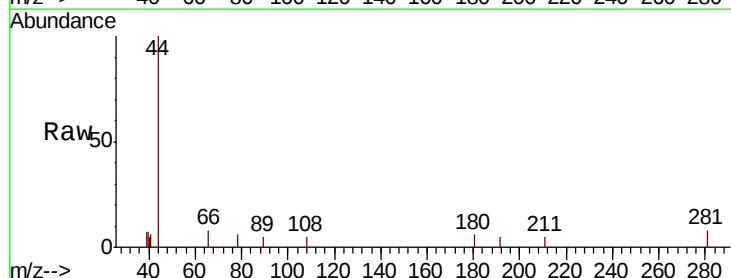
Tgt Ion:180 Resp: 68

Ion Ratio Lower Upper

180 100

182 0.0 47.2 141.6#

145 0.0 15.6 46.7#



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

