

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071018\
 Data File : VF059484.D
 Acq On : 10 Jul 2018 15:10
 Operator : VA/AP
 Sample : J3891-05RE
 Misc : 5.30g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230RE

Quant Time: Jul 10 15:39:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F070718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 07 06:35:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	9328	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.75	114	9978	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.90	117	7424	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	1857	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	2301	14.18	ug/l	0.03
Spiked Amount	50.000		Recovery	=	28.36%	
35) Dibromofluoromethane	4.27	113	2868	29.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	59.92%	
50) Toluene-d8	7.70	98	7309	32.45	ug/l	0.02
Spiked Amount	50.000		Recovery	=	64.90%	
62) 4-Bromofluorobenzene	11.54	95	92	0.73	ug/l	0.06
Spiked Amount	50.000		Recovery	=	1.46%	

Target Compounds						Qvalue
3) Chloromethane	1.09	50	254	3.92	ug/l #	44
5) Bromomethane	1.36	94	64	1.23	ug/l #	4
6) Chloroethane	1.53	64	78	2.19	ug/l #	40
8) Diethyl Ether	1.63	74	73	2.42	ug/l #	64
9) 1,1,2-Trichlorotrifluoroet	1.86	101	81	1.04	ug/l #	20
11) Tert butyl alcohol	2.61	59	59	7.98	ug/l #	73
12) 1,1-Dichloroethene	1.83	96	80	1.13	ug/l #	1
13) Acrolein	2.07	56	70	12.22	ug/l #	11
15) Acrylonitrile	3.07	53	138	10.23	ug/l #	10
16) Acetone	2.34	43	77	3.17	ug/l #	67
18) Methyl Acetate	2.41	43	60	1.06	ug/l #	66
20) Methylene Chloride	2.28	84	745	7.11	ug/l #	34
22) Diisopropyl ether	2.91	45	258	1.02	ug/l #	76
23) Vinyl Acetate	3.33	43	321	2.18	ug/l #	81
25) 2-Butanone	4.51	43	71	2.15	ug/l #	60
28) Bromochloromethane	3.89	49	74	1.05	ug/l #	8
29) Tetrahydrofuran	4.22	42	70	4.52	ug/l #	38
37) Ethyl Acetate	4.28	43	248	4.01	ug/l #	23
41) Methacrylonitrile	4.91	41	521	18.34	ug/l #	22
45) 1,2-Dichloropropane	6.48	63	69	1.16	ug/l #	45
48) Methyl methacrylate	6.85	41	206	4.08	ug/l #	11
49) 1,4-Dioxane	6.95	88	73	318.37	ug/l #	15
51) 4-Methyl-2-Pentanone	8.40	43	334	6.33	ug/l #	40
55) 1,1,2-Trichloroethane	8.62	97	89	1.48	ug/l #	16
56) Ethyl methacrylate	8.75	69	83	1.22	ug/l #	37
58) 2-Chloroethyl Vinyl ether	7.76	63	73	11.20	ug/l	100
59) 2-Hexanone	9.66	43	67	1.71	ug/l #	31
61) 1,2-Dibromoethane	9.07	107	108	1.46	ug/l #	2
66) 1,1,1,2-Tetrachloroethane	9.98	131	88	1.32	ug/l #	9
74) N-amyl acetate	11.43	43	286	8.30	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.79	83	75	2.92	ug/l #	24
76) 1,2,3-Trichloropropane	11.78	75	67	3.21	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.95	75	82	7.57	ug/l #	9
87) 1,3-Dichlorobenzene	12.56	146	82	1.39	ug/l #	25

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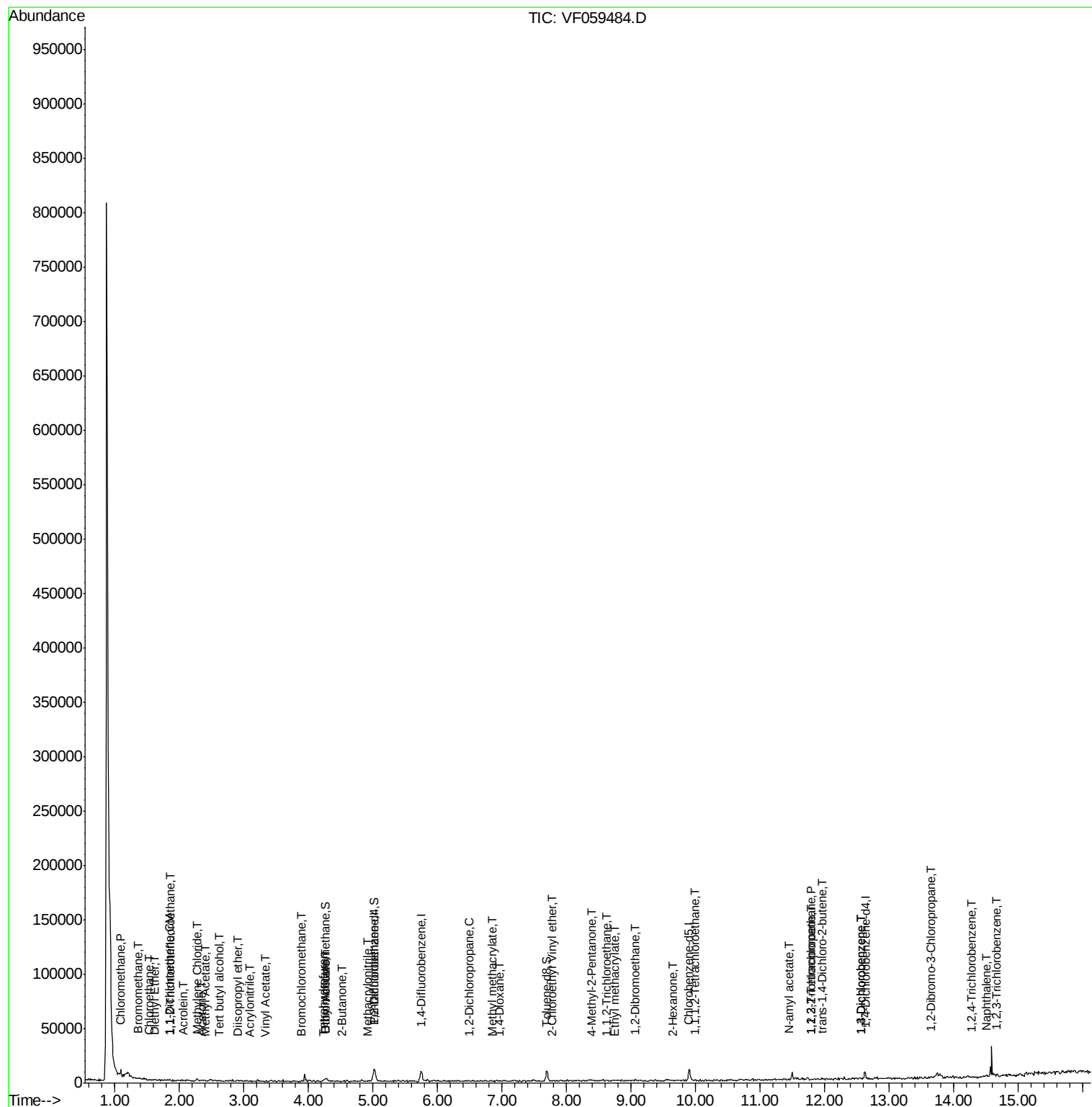
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) 1,4-Dichlorobenzene	12.56	146	82	1.42	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.65	75	71	11.05	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.28	180	80	1.84	ug/l #	11
95) Naphthalene	14.52	128	235	2.71	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.66	180	68	1.61	ug/l #	1

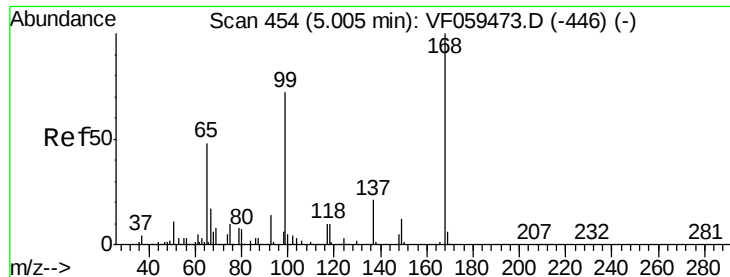
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 456

Delta R.T. 0.02 min

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Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

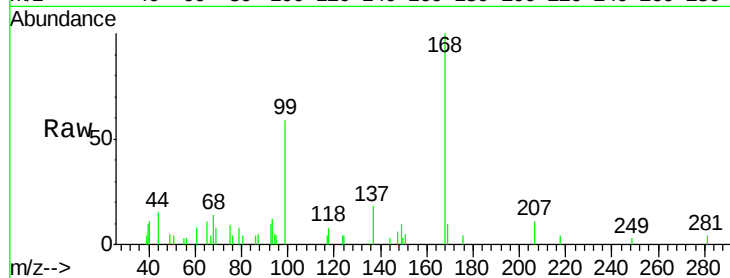
72-12002-RBR-RBR-VNJ-230RE

Tot Ion:168 Resp: 9328

Ion Ratio Lower Upper

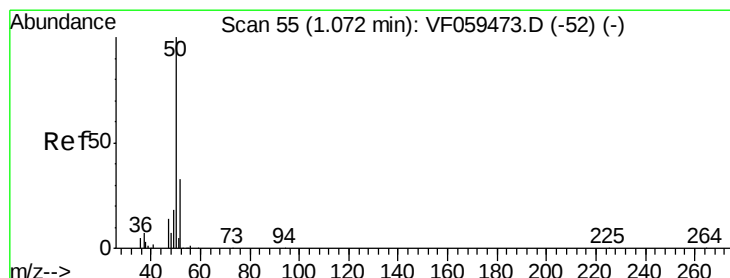
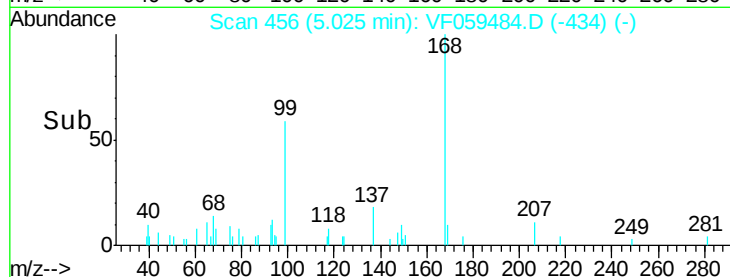
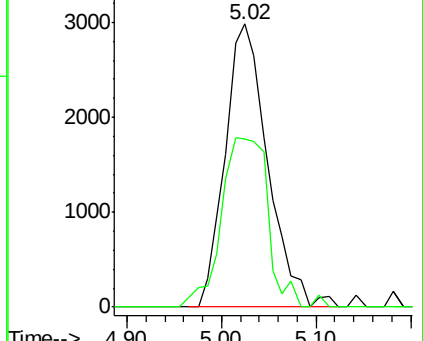
168 100

99 59.5 57.7 86.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 3.92 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.02 min

Lab File: VF059484.D

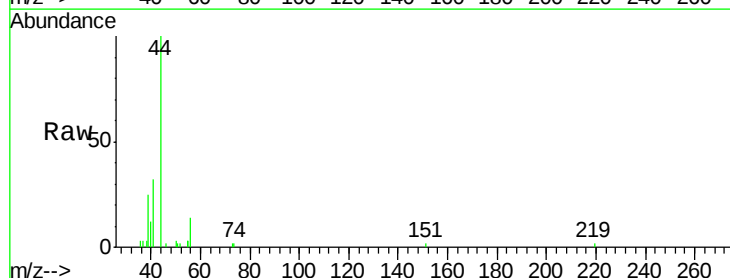
Acq: 10 Jul 2018 15:10

Tgt Ion: 50 Resp: 254

Ion Ratio Lower Upper

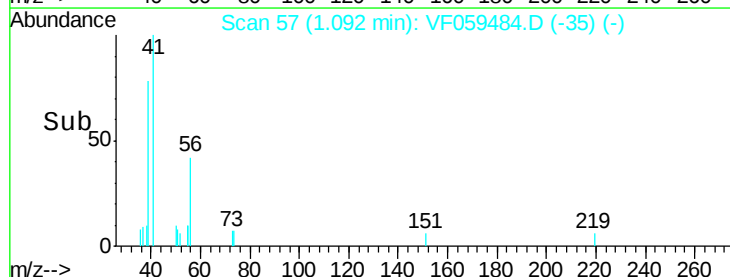
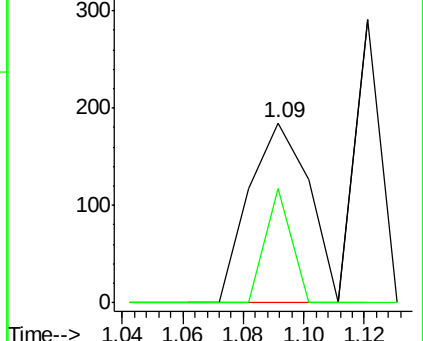
50 100

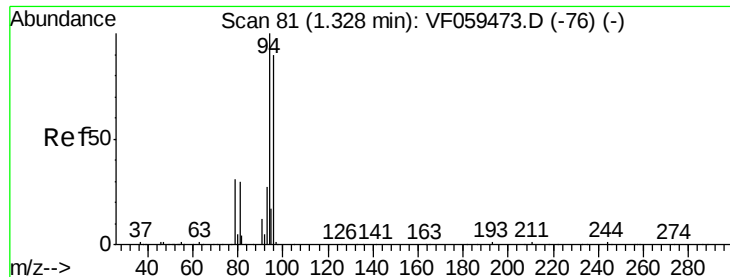
52 63.8 25.9 38.9#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: 1.23 ug/l

RT: 1.36 min Scan# 84

Delta R.T. 0.03 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

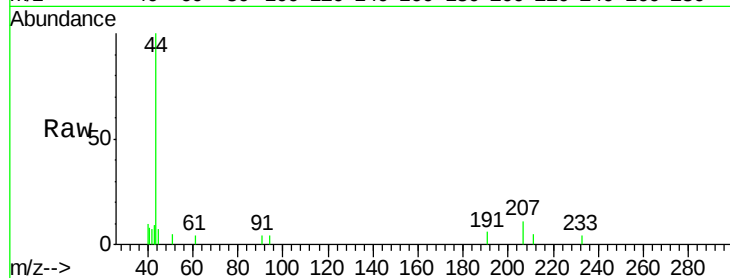
72-12002-RBR-RBR-VNJ-230RE

Tot Ion: 94 Resp: 64

Ion Ratio Lower Upper

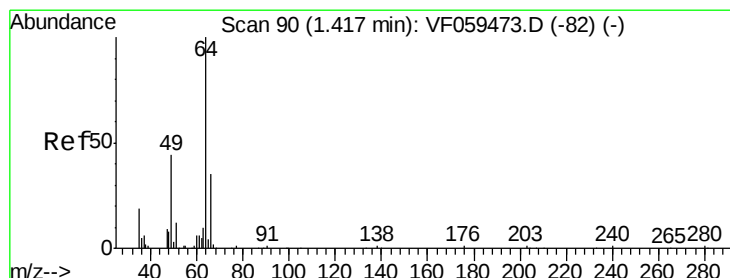
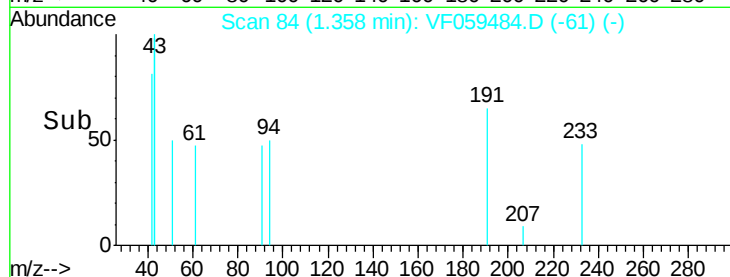
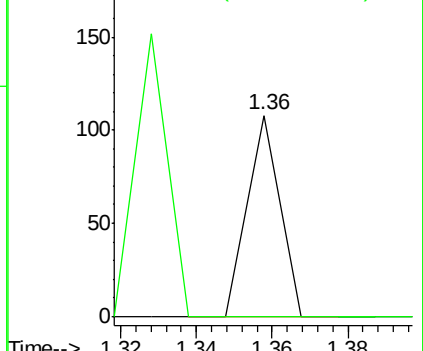
94 100

96 0.0 72.0 108.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 2.19 ug/l

RT: 1.53 min Scan# 101

Delta R.T. 0.11 min

Lab File: VF059484.D

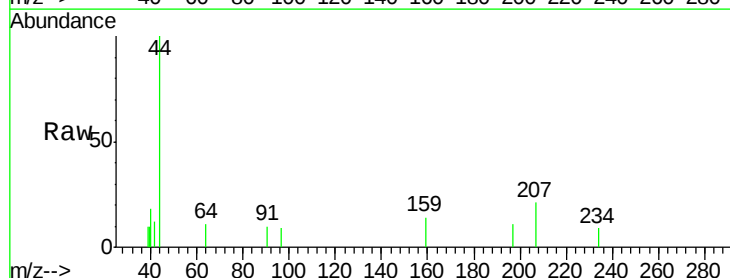
Acq: 10 Jul 2018 15:10

Tgt Ion: 64 Resp: 78

Ion Ratio Lower Upper

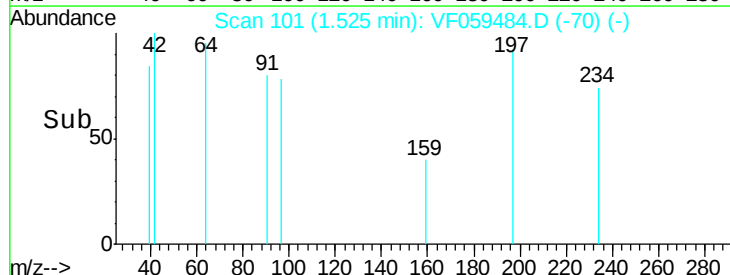
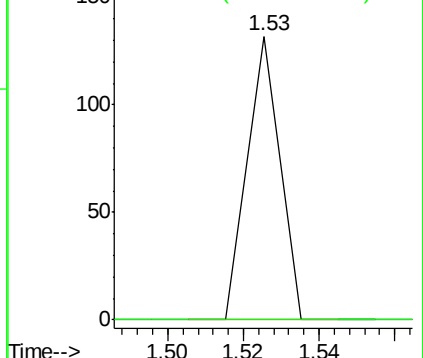
64 100

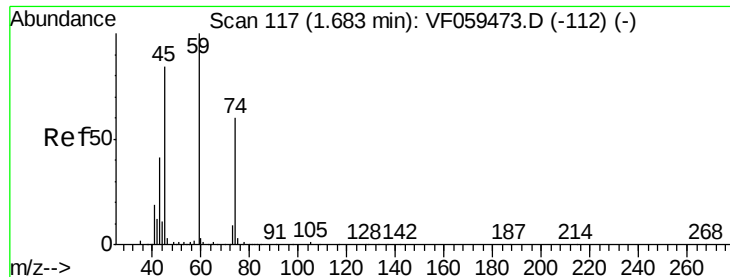
66 0.0 28.1 42.1#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#8

Diethyl Ether

Concen: 2.42 ug/l

RT: 1.63 min Scan# 112

Delta R.T. -0.05 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

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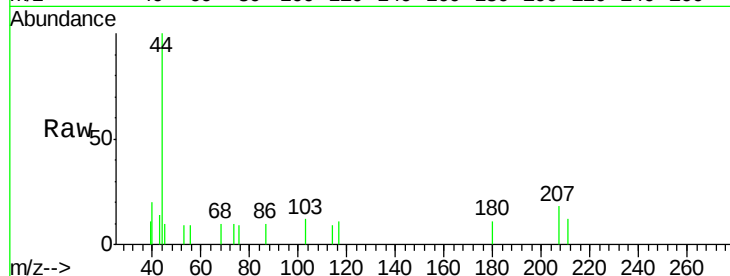
72-12002-RBR-RBR-VNJ-230RE

Tot Ion: 74 Resp: 73

Ion Ratio Lower Upper

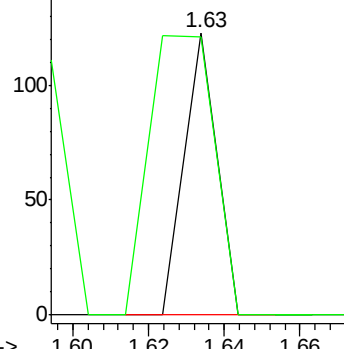
74 100

45 98.4 71.1 213.3

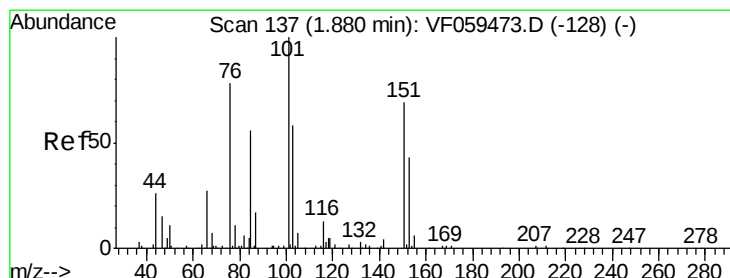
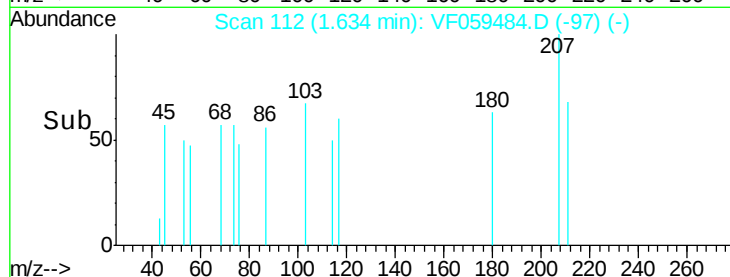


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.04 ug/l

RT: 1.86 min Scan# 135

Delta R.T. -0.02 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

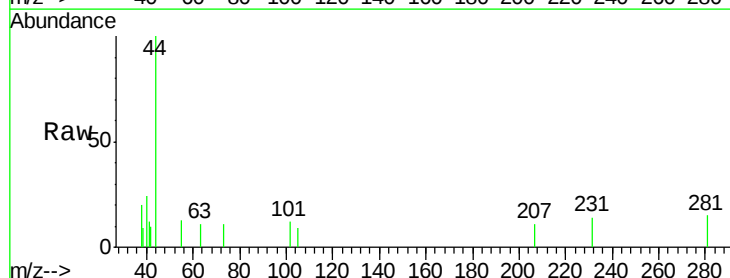
Tgt Ion: 101 Resp: 81

Ion Ratio Lower Upper

101 100

85 0.0 43.8 65.8#

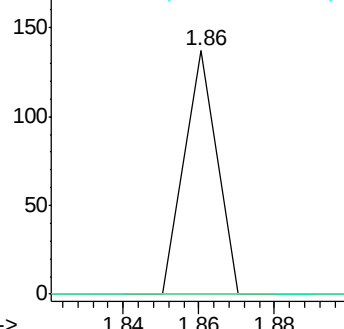
151 0.0 54.2 81.4#



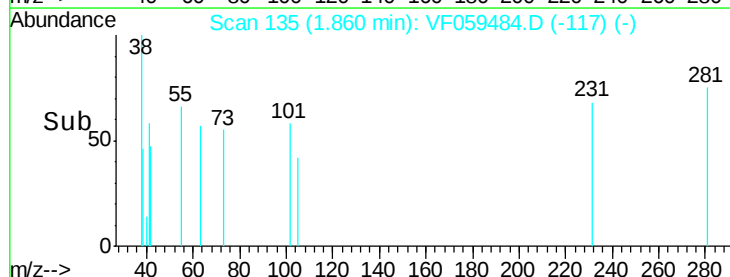
Abundance Ion 101.00 (100.70 to 101.70): V

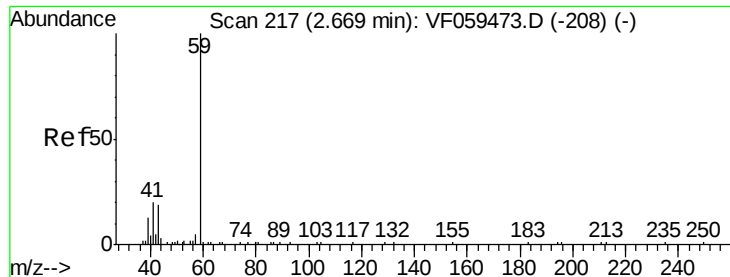
Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



Time-->

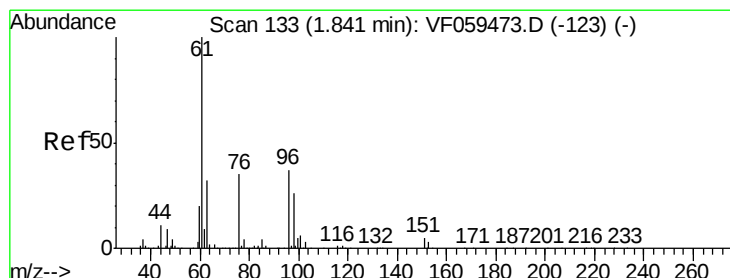
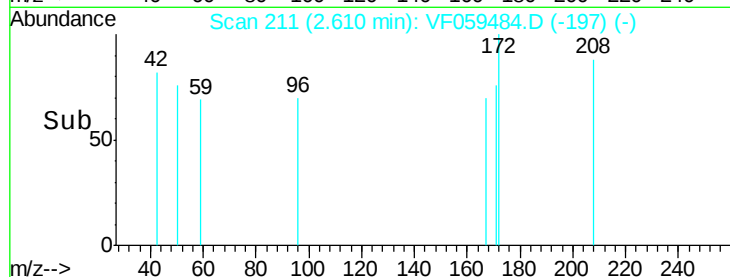
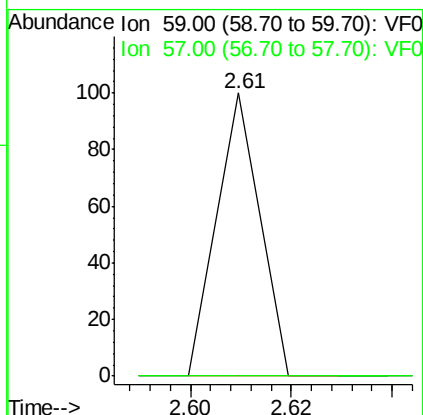
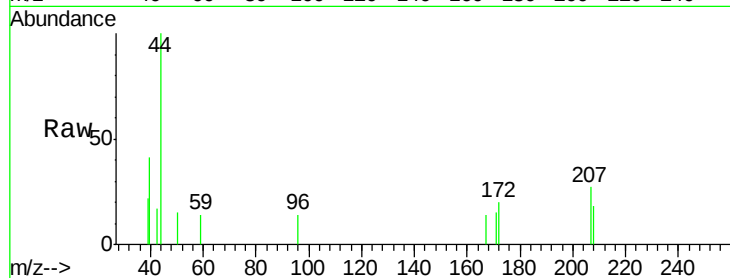




#11
Tert butyl alcohol
Concen: 7.98 ug/l
RT: 2.61 min Scan# 211
Delta R.T. -0.06 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

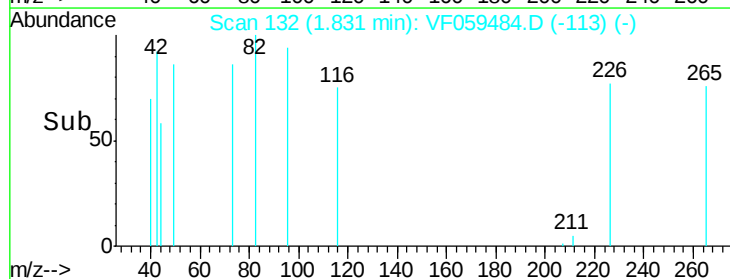
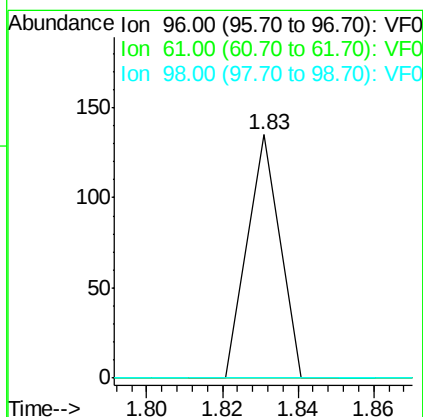
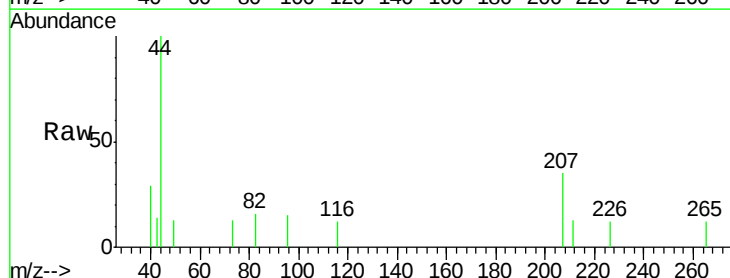
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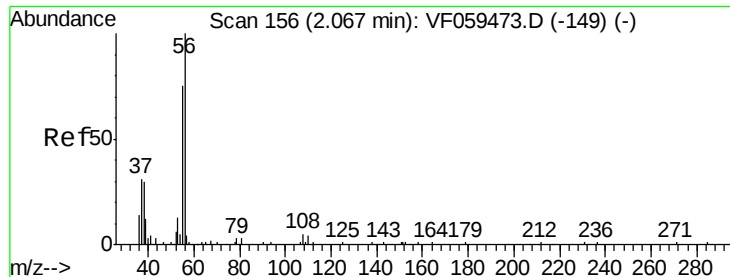
Tot Ion: 59 Resp: 59
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#12
1,1-Dichloroethene
Concen: 1.13 ug/l
RT: 1.83 min Scan# 132
Delta R.T. -0.01 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

Tgt Ion: 96 Resp: 80
Ion Ratio Lower Upper
96 100
61 0.0 214.4 321.6#
98 0.0 55.6 83.4#





#13

Acrolein

Concen: 12.22 ug/l

RT: 2.07 min Scan# 156

Delta R.T. 0.00 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

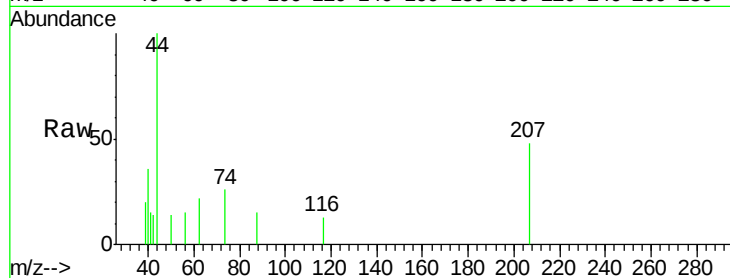
72-12002-RBR-RBR-VNJ-230RE

Tot Ion: 56 Resp: 70

Ion Ratio Lower Upper

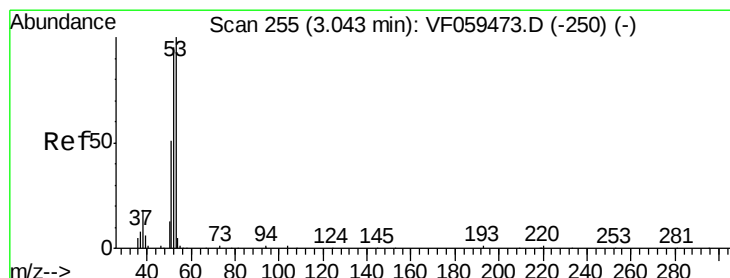
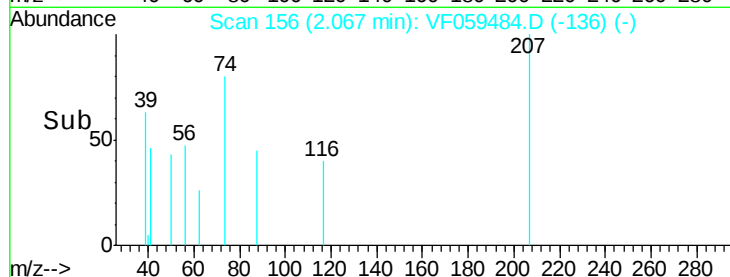
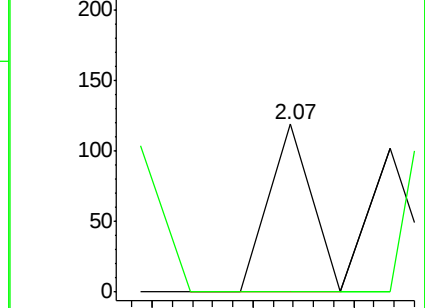
56 100

55 0.0 61.2 91.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 10.23 ug/l

RT: 3.07 min Scan# 258

Delta R.T. 0.03 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

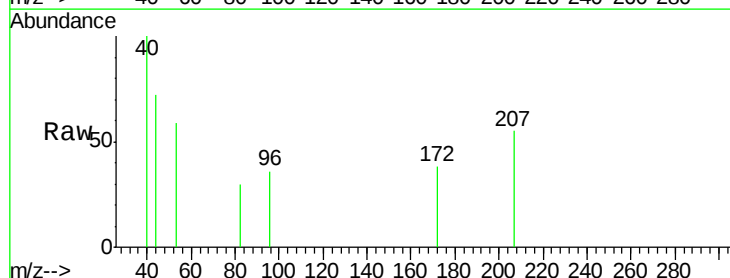
Tgt Ion: 53 Resp: 138

Ion Ratio Lower Upper

53 100

52 0.0 76.8 115.2#

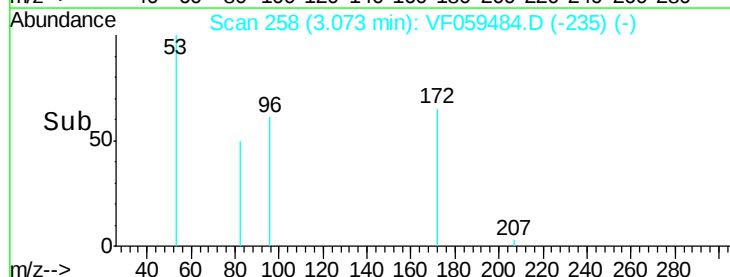
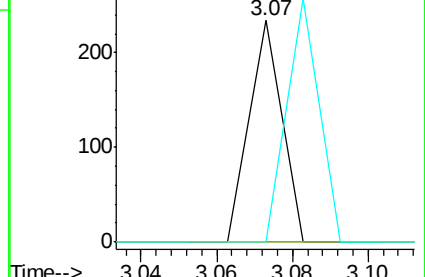
51 0.0 41.8 62.8#

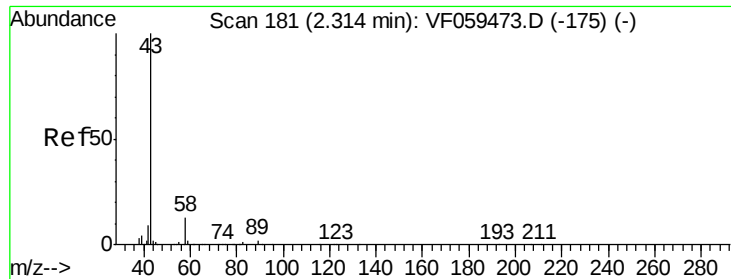


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

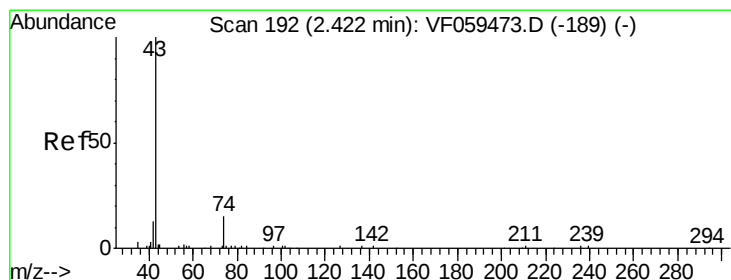
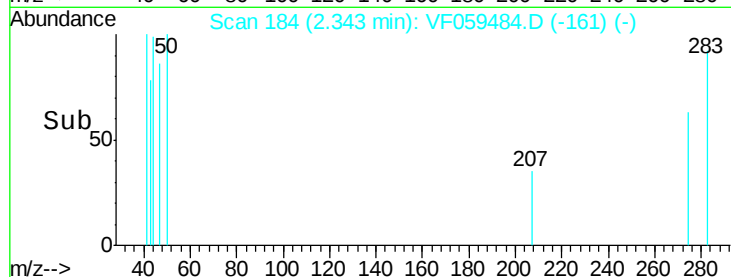
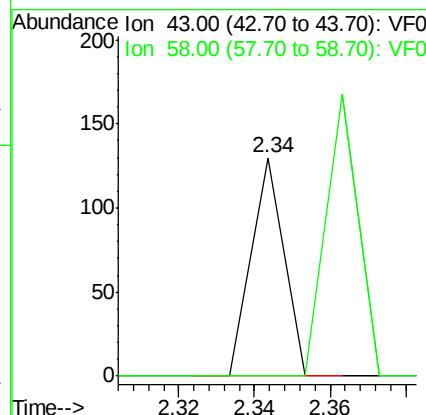
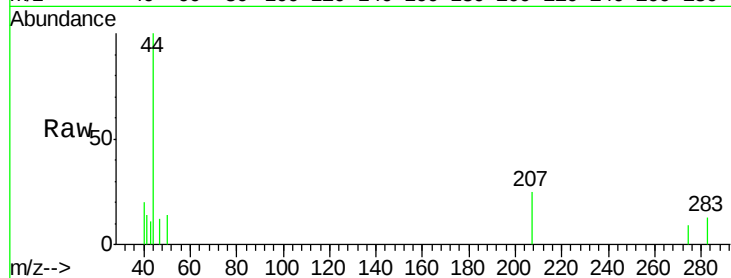




#16
Acetone
Concen: 3.17 ug/l
RT: 2.34 min Scan# 184
Delta R.T. 0.03 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

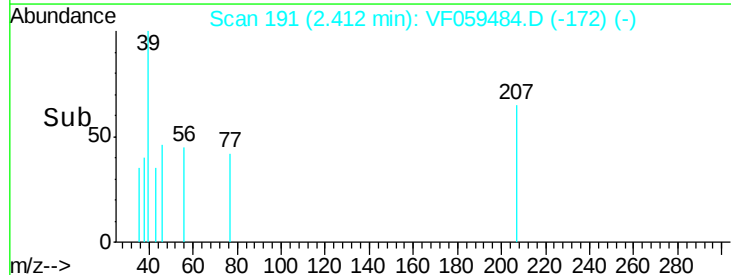
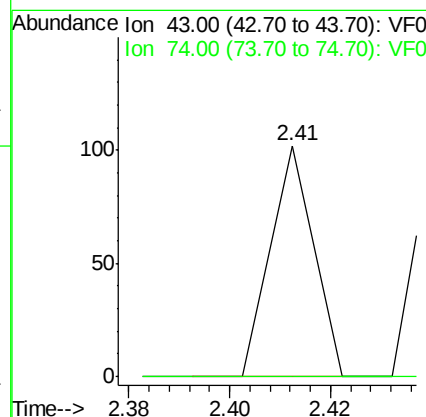
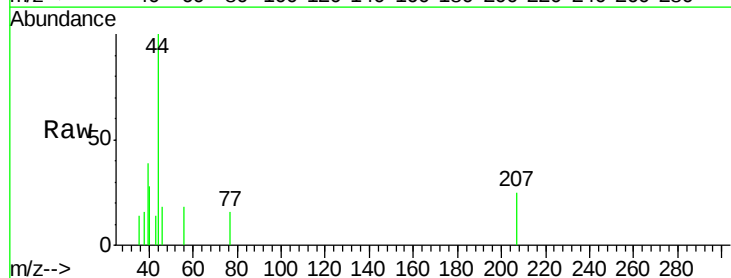
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ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

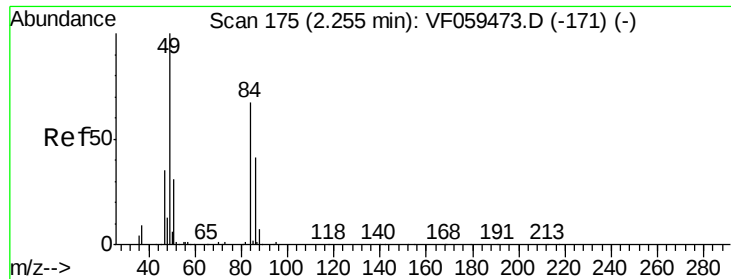
Tot Ion: 43 Resp: 77
Ion Ratio Lower Upper
43 100
58 0.0 10.5 15.7#



#18
Methyl Acetate
Concen: 1.06 ug/l
RT: 2.41 min Scan# 191
Delta R.T. -0.01 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
74 0.0 10.8 16.2#

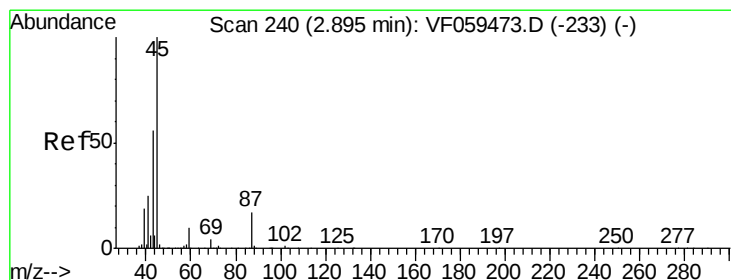
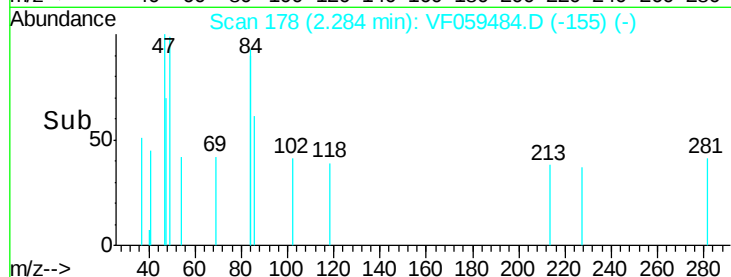
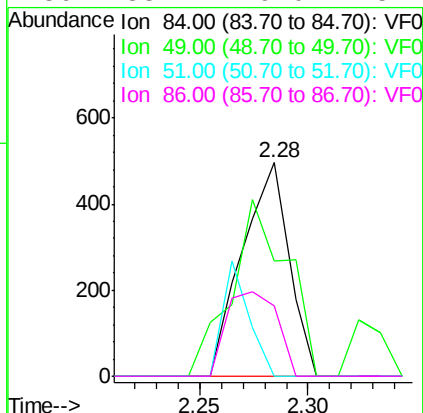
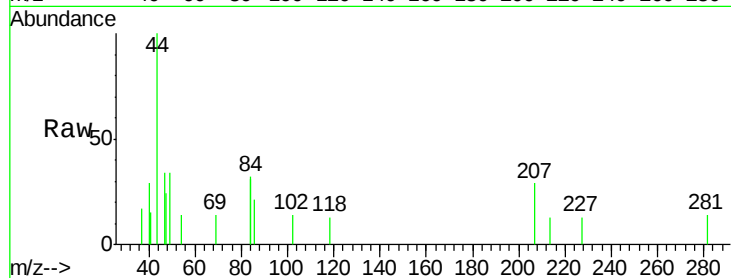




#20
Methvlene Chloride
Concen: 7.11 ug/l
RT: 2.28 min Scan# 178
Delta R.T. 0.03 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

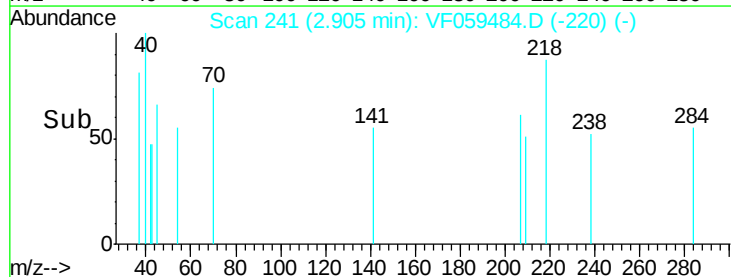
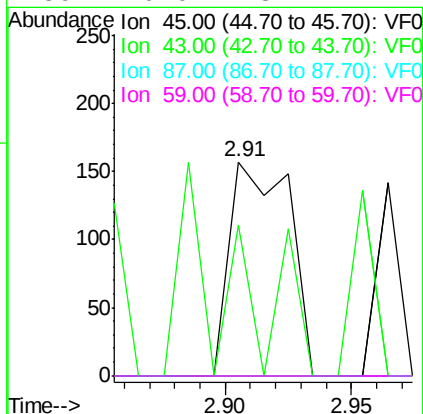
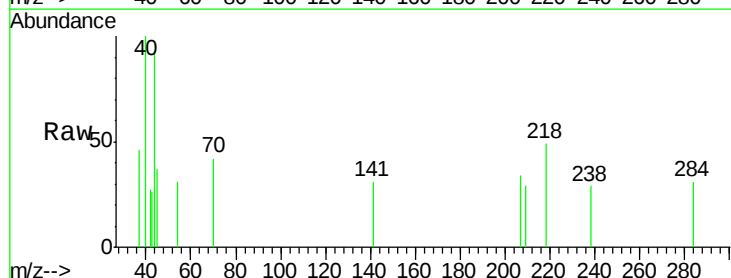
Instrument :
MSVOA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

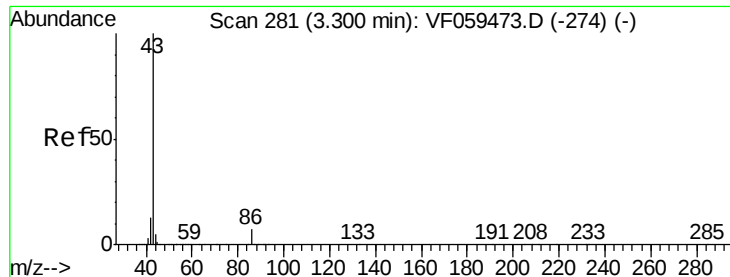
Tot Ion:	84	Resp:	745
Ion	Ratio	Lower	Upper
84	100		
49	54.0	120.4	180.6#
51	0.0	38.1	57.1#
86	33.1	49.0	73.4#



#22
Diisopropyl ether
Concen: 1.02 ug/l
RT: 2.91 min Scan# 241
Delta R.T. 0.01 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

Tgt Ion:	45	Resp:	258
Ion	Ratio	Lower	Upper
45	100		
43	70.7	45.4	68.2#
87	0.0	13.5	20.3#
59	0.0	8.2	12.4#





#23

Vinyl Acetate

Concen: 2.18 ug/l

RT: 3.33 min Scan# 284

Delta R.T. 0.03 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

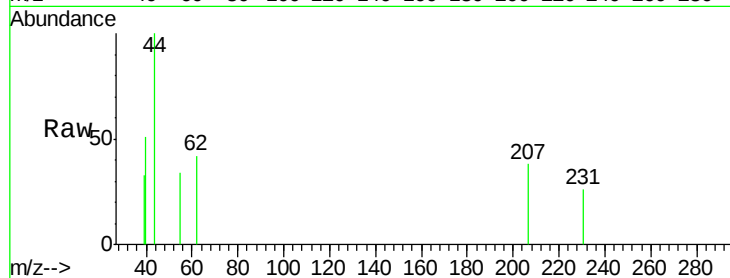
72-12002-RBR-RBR-VNJ-230RE

Tot Ion: 43 Resp: 321

Ion Ratio Lower Upper

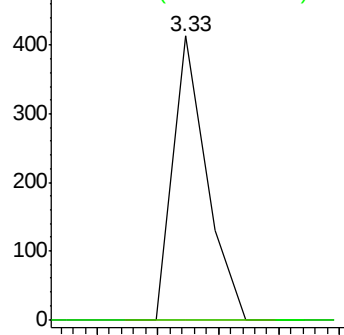
43 100

86 0.0 5.3 7.9#

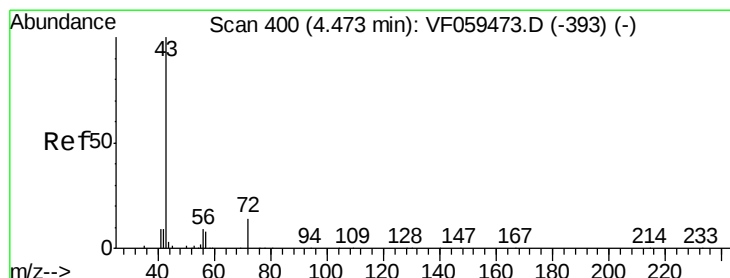
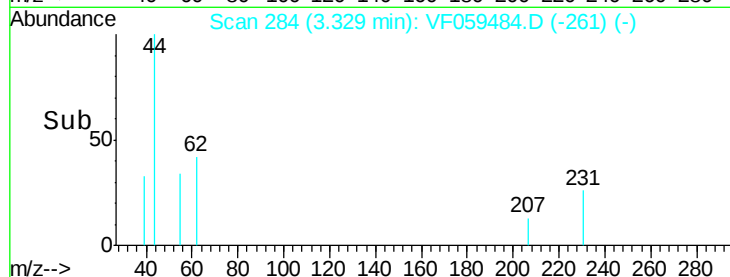


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#25

2-Butanone

Concen: 2.15 ug/l

RT: 4.51 min Scan# 404

Delta R.T. 0.04 min

Lab File: VF059484.D

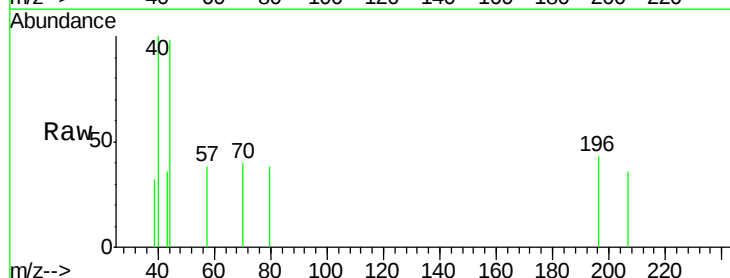
Acq: 10 Jul 2018 15:10

Tgt Ion: 43 Resp: 71

Ion Ratio Lower Upper

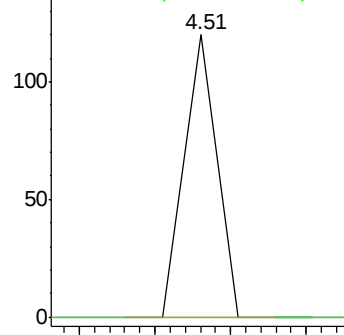
43 100

72 0.0 13.8 20.8#

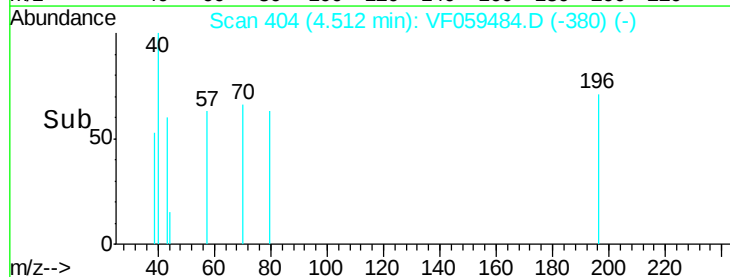


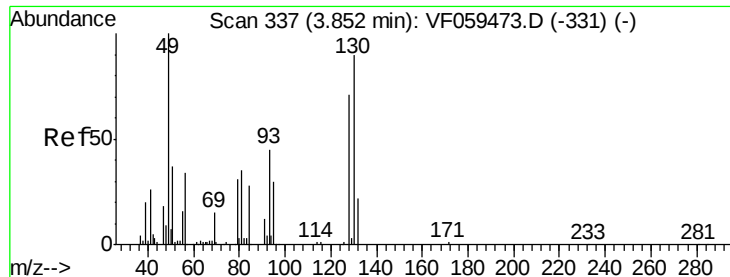
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->





#28

Bromochloromethane

Concen: 1.05 ug/l

RT: 3.89 min Scan# 341

Delta R.T. 0.04 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE

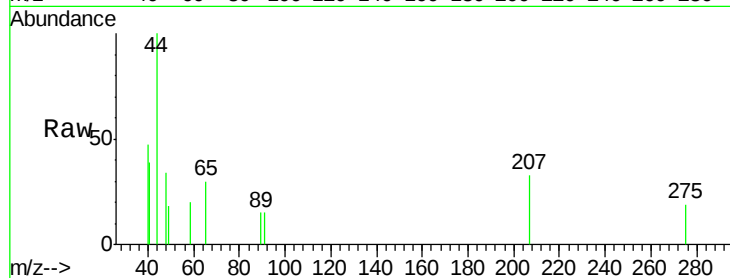
Tot Ion: 49 Resp: 74

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.2

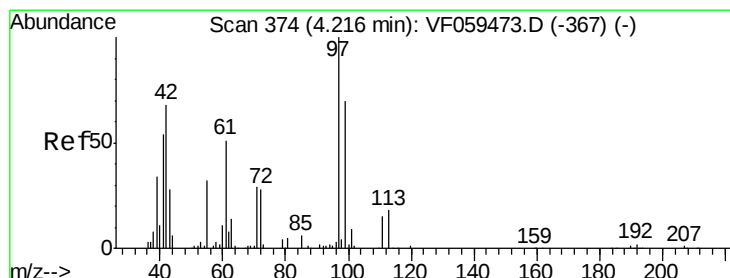
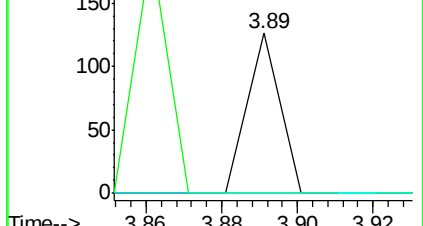
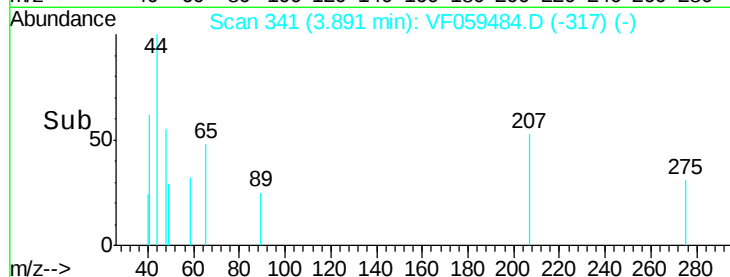
130 0.0 71.4 107.0#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



#29

Tetrahydrofuran

Concen: 4.52 ug/l

RT: 4.22 min Scan# 374

Delta R.T. 0.00 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

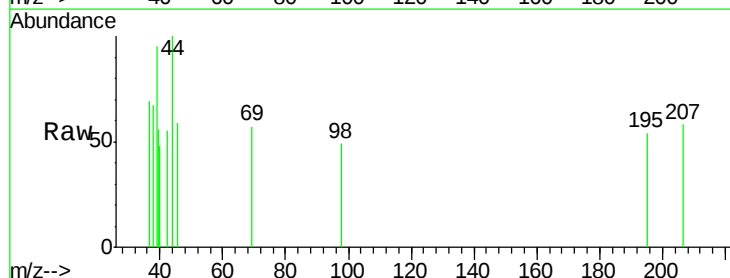
Tgt Ion: 42 Resp: 70

Ion Ratio Lower Upper

42 100

72 0.0 29.2 43.8#

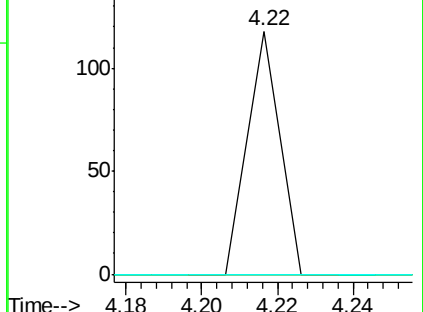
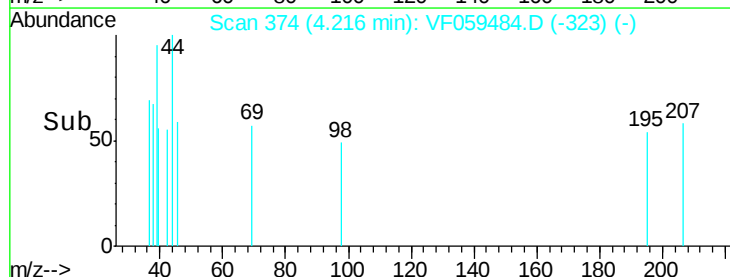
71 0.0 30.1 45.1#

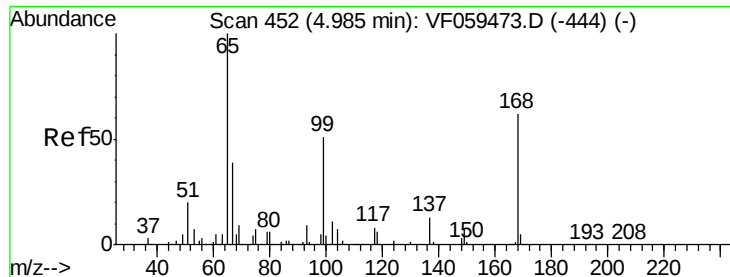


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

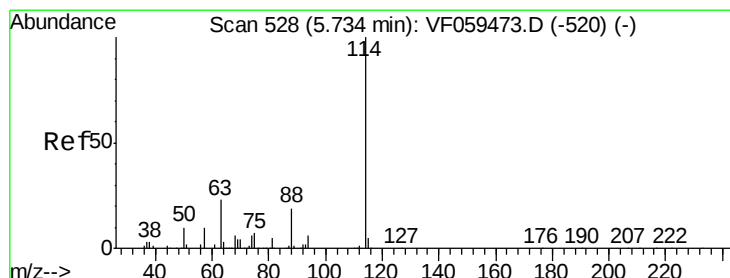
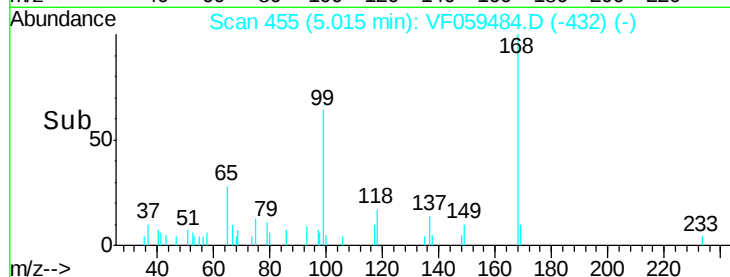
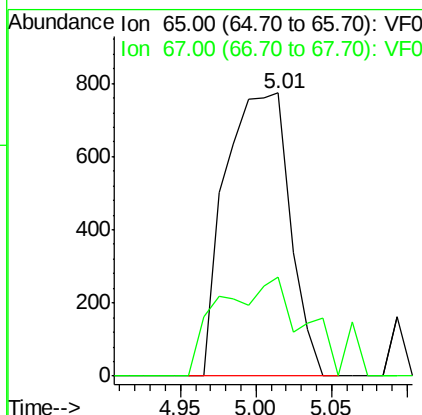
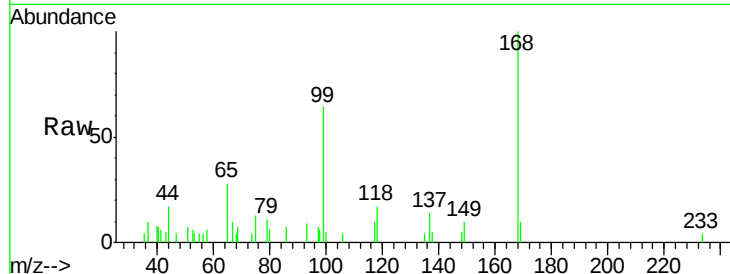




#33
 1,2-Dichloroethane-d4
 Concen: 14.18 ug/l
 RT: 5.01 min Scan# 455
 Delta R.T. 0.03 min
 Lab File: VF059484.D
 Acq: 10 Jul 2018 15:10

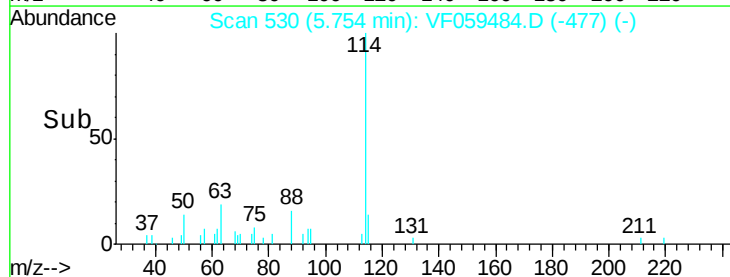
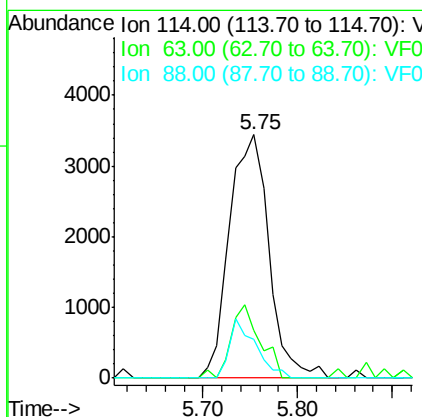
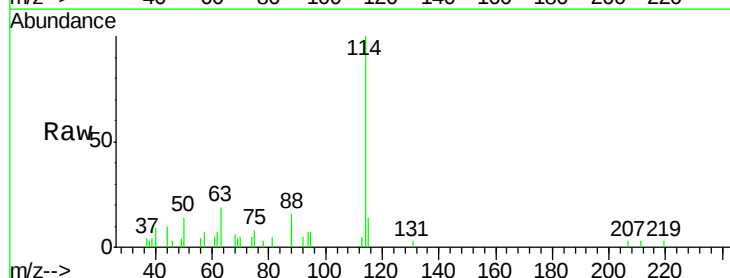
Instrument :
 MSVOA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230RE

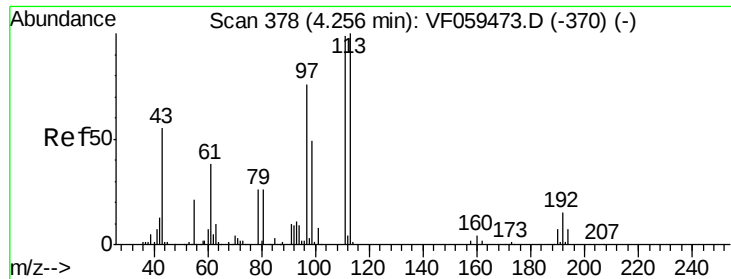
Tot Ion: 65 Resp: 2301
 Ion Ratio Lower Upper
 65 100
 67 35.2 0.0 88.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. 0.02 min
 Lab File: VF059484.D
 Acq: 10 Jul 2018 15:10

Tgt Ion:114 Resp: 9978
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 47.2
 88 15.7 0.0 38.0

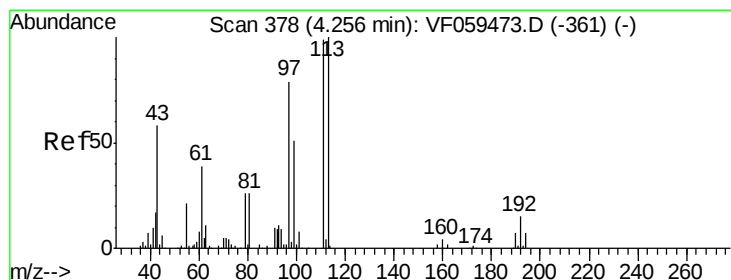
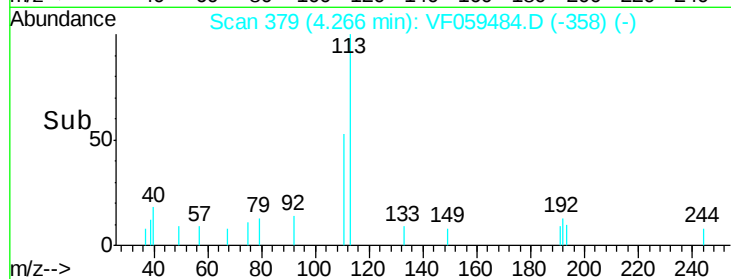
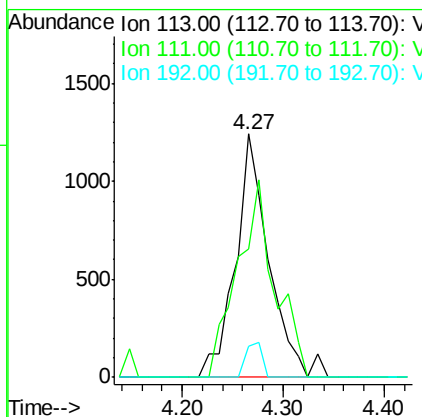
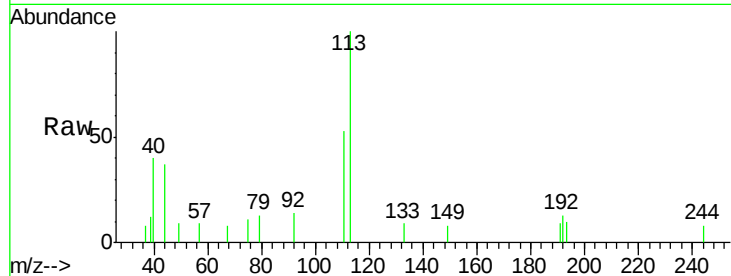




#35
 Dibromofluoromethane
 Concen: 29.96 ug/l
 RT: 4.27 min Scan# 379
 Delta R.T. 0.01 min
 Lab File: VF059484.D
 Acq: 10 Jul 2018 15:10

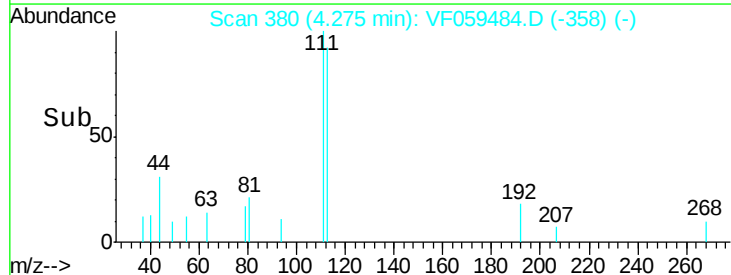
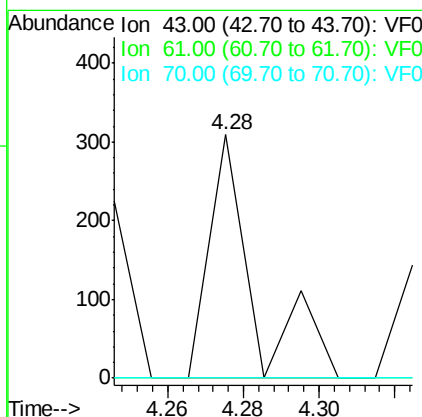
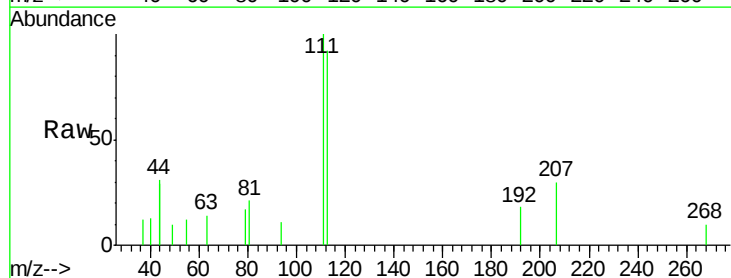
Instrument :
 MSVOA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230RE

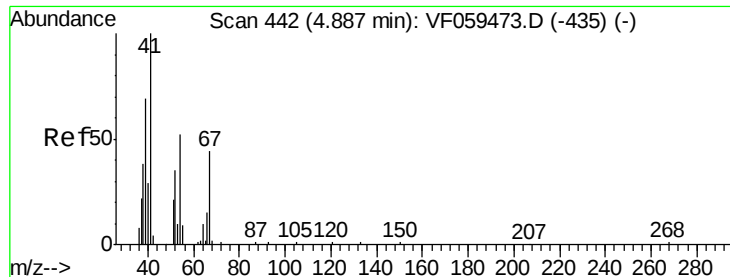
Tot Ion:113 Resp: 2868
 Ion Ratio Lower Upper
 113 100
 111 52.7 79.3 118.9#
 192 13.0 12.0 18.0



#37
 Ethyl Acetate
 Concen: 4.01 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. 0.02 min
 Lab File: VF059484.D
 Acq: 10 Jul 2018 15:10

Tgt Ion: 43 Resp: 248
 Ion Ratio Lower Upper
 43 100
 61 0.0 54.2 81.4#
 70 0.0 7.0 10.6#

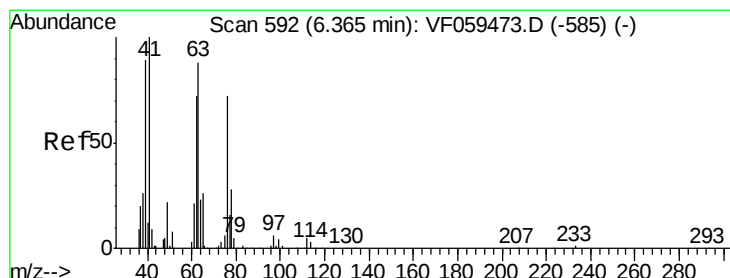
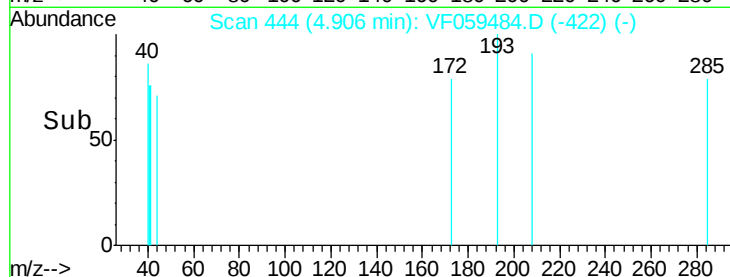
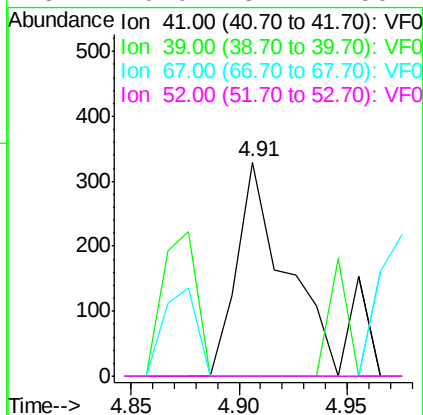
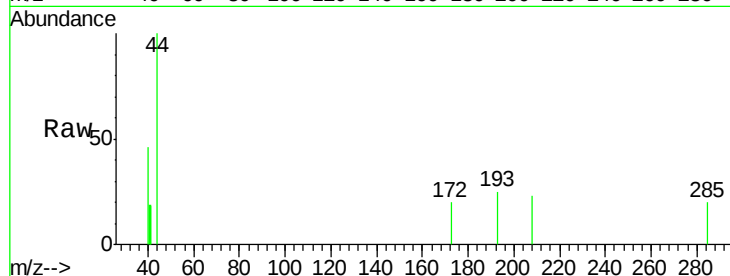




#41
Methacrylonitrile
Concen: 18.34 ug/l
RT: 4.91 min Scan# 444
Delta R.T. 0.02 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

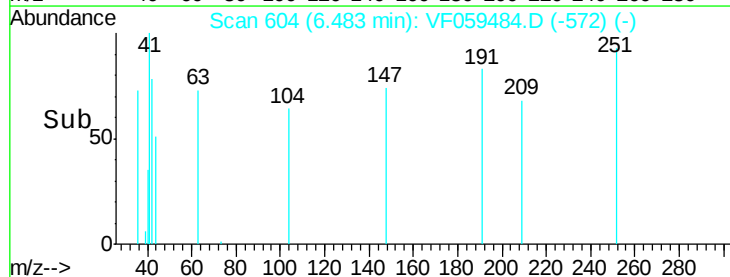
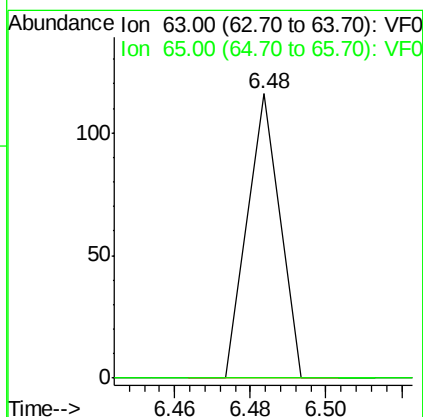
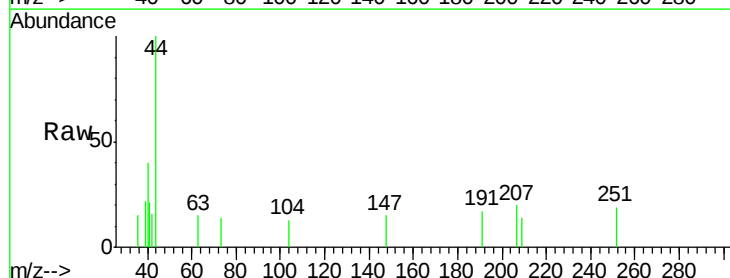
Instrument :
MSVOA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

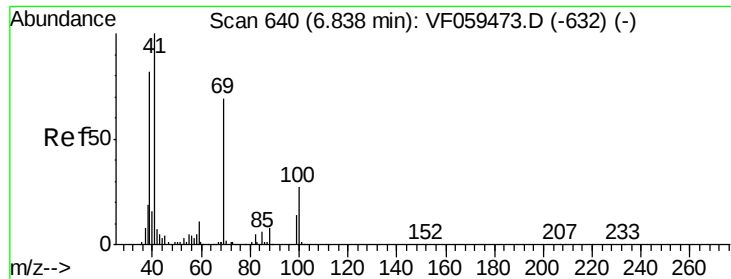
Tot Ion:	41	Resp:	521
Ion	Ratio	Lower	Upper
41	100		
39	0.0	61.7	92.5#
67	0.0	35.4	53.2#
52	0.0	37.4	56.2#



#45
1,2-Dichloropropane
Concen: 1.16 ug/l
RT: 6.48 min Scan# 604
Delta R.T. 0.12 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

Tgt Ion:	63	Resp:	69
Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.5	35.3#

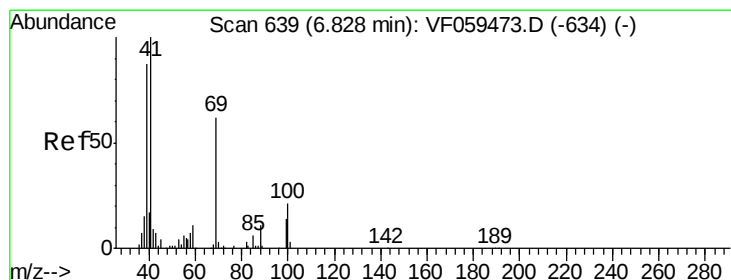
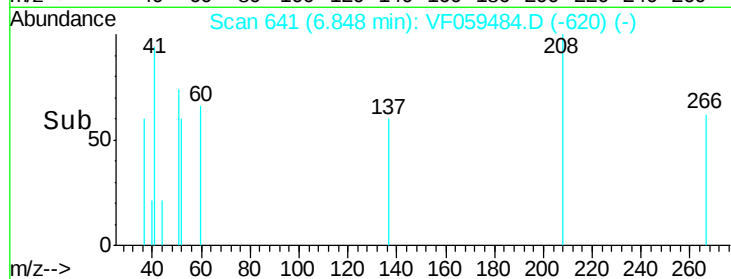
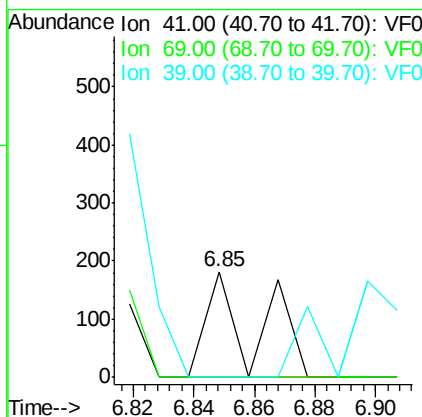
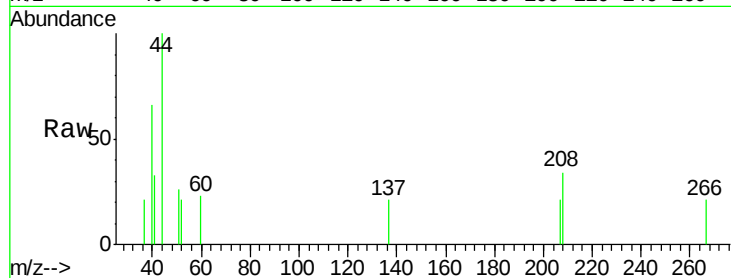




#48
Methvl methacrylate
Concen: 4.08 ug/l
RT: 6.85 min Scan# 641
Delta R.T. 0.01 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

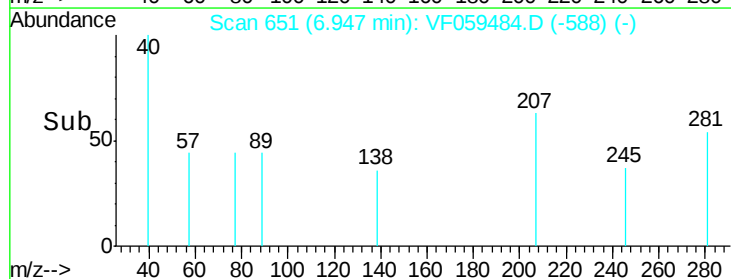
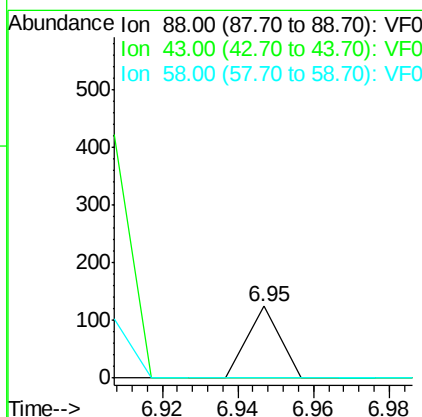
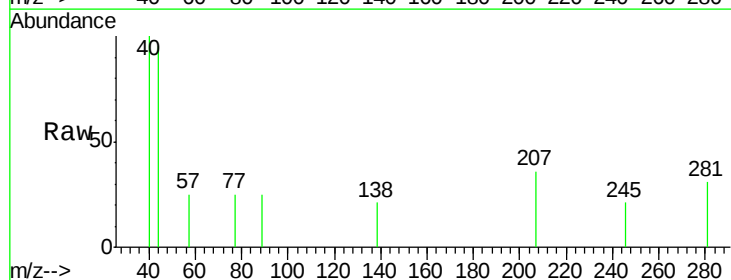
Instrument :
MSVOA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

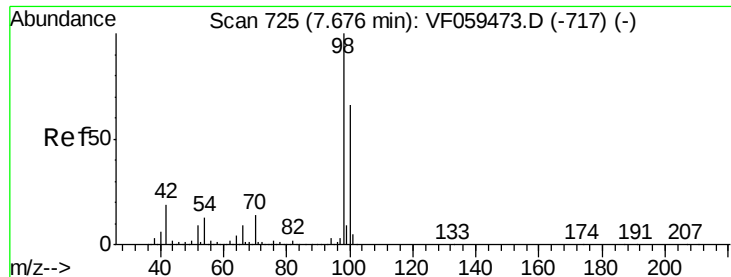
Tot Ion: 41 Resp: 206
Ion Ratio Lower Upper
41 100
69 0.0 55.6 83.4#
39 0.0 66.0 99.0#



#49
1,4-Dioxane
Concen: 318.37 ug/l
RT: 6.95 min Scan# 651
Delta R.T. 0.12 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 0.0 57.3 85.9#
58 0.0 54.6 81.8#

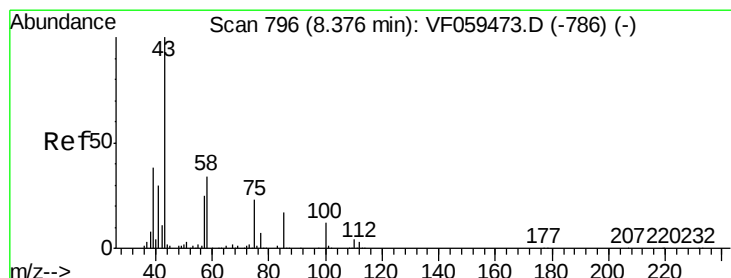
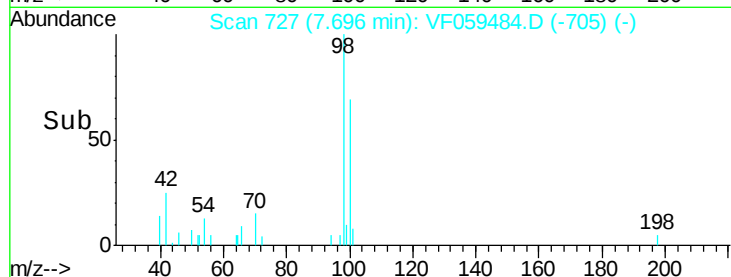
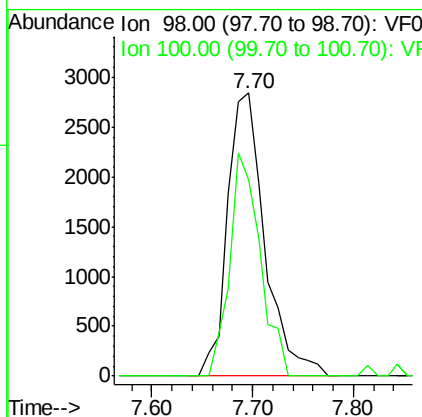
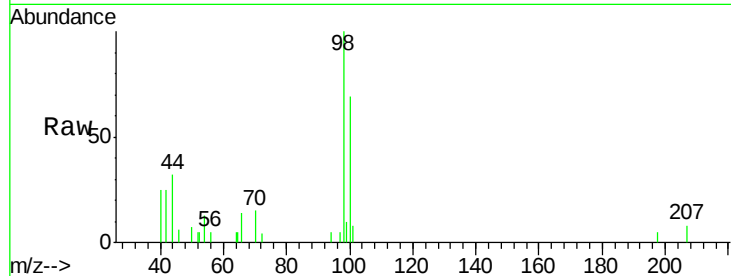




#50
Toluene-d8
Concen: 32.45 ug/l
RT: 7.70 min Scan# 727
Delta R.T. 0.02 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

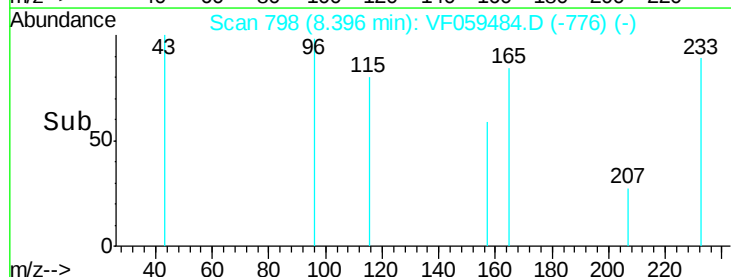
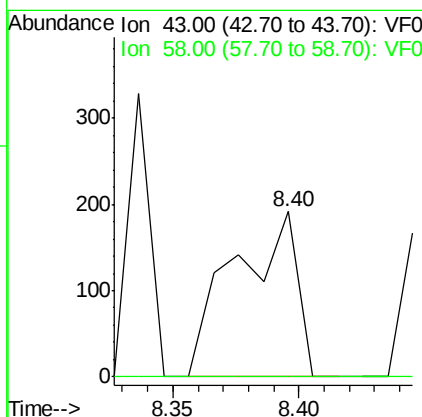
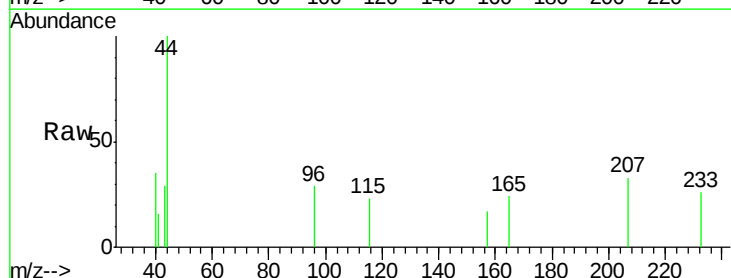
Instrument :
MSVOA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

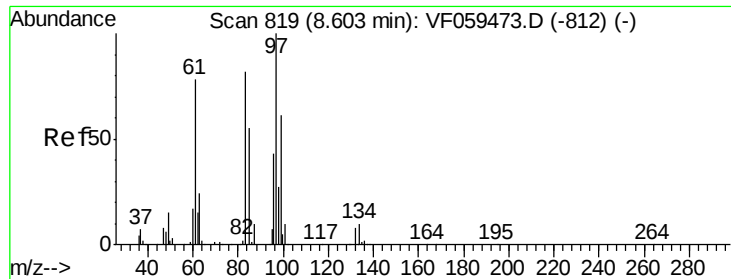
Tot Ion: 98 Resp: 7309
Ion Ratio Lower Upper
98 100
100 69.5 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 6.33 ug/l
RT: 8.40 min Scan# 798
Delta R.T. 0.02 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

Tgt Ion: 43 Resp: 334
Ion Ratio Lower Upper
43 100
58 0.0 27.4 41.2#





#55

1,1,2-Trichloroethane

Concen: 1.48 ug/l

RT: 8.62 min Scan# 821

Delta R.T. 0.02 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE

Tot Ion: 97 Resp: 89

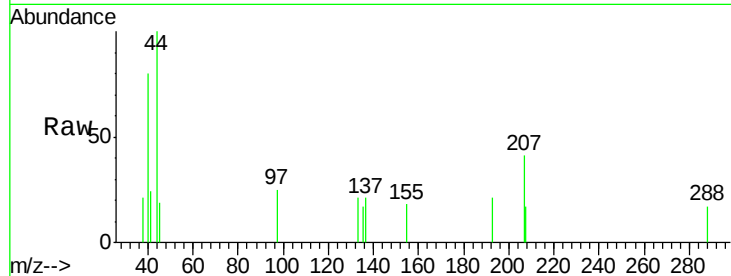
Ion Ratio Lower Upper

97 100

83 0.0 65.7 98.5#

85 0.0 43.8 65.6#

99 0.0 48.5 72.7#

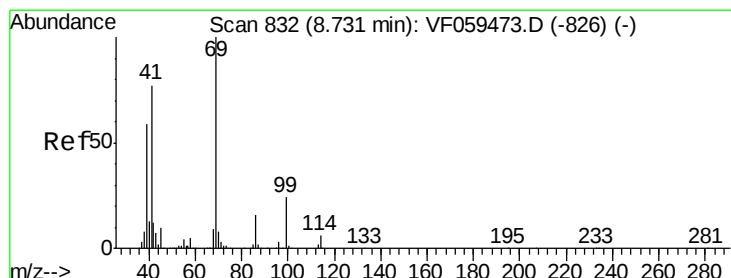
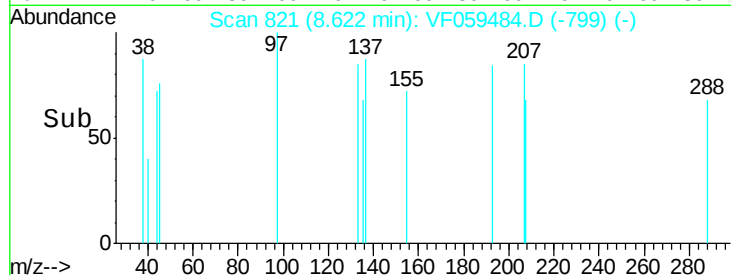
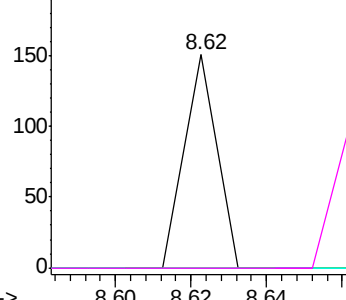


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 1.22 ug/l

RT: 8.75 min Scan# 834

Delta R.T. 0.02 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

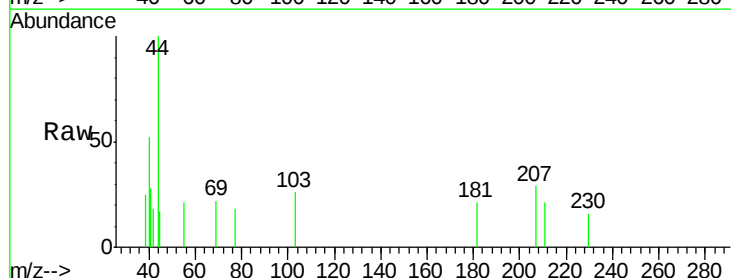
Tgt Ion: 69 Resp: 83

Ion Ratio Lower Upper

69 100

41 127.7 62.2 93.4#

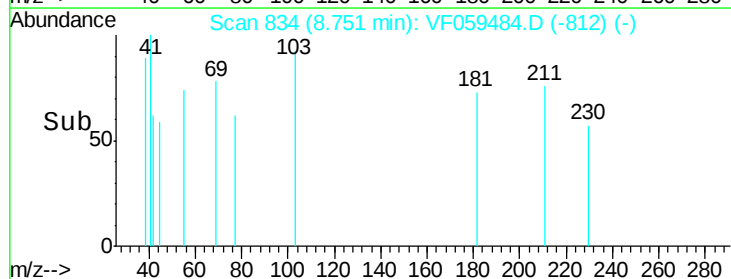
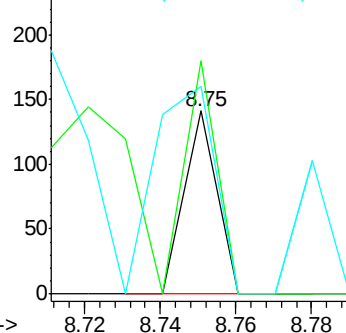
39 113.5 47.7 71.5#

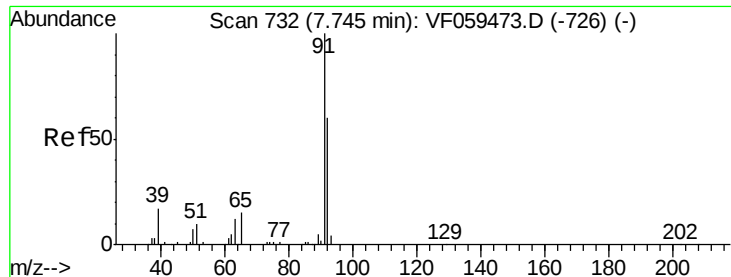


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 11.20 ug/l

RT: 7.76 min Scan# 734

Delta R.T. 0.02 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

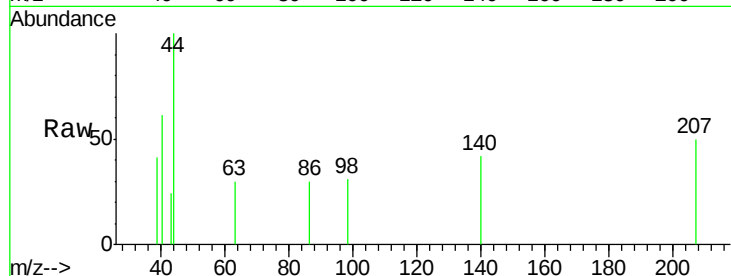
72-12002-RBR-RBR-VNJ-230RE

Tot Ion: 63 Resp: 73

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

7.76

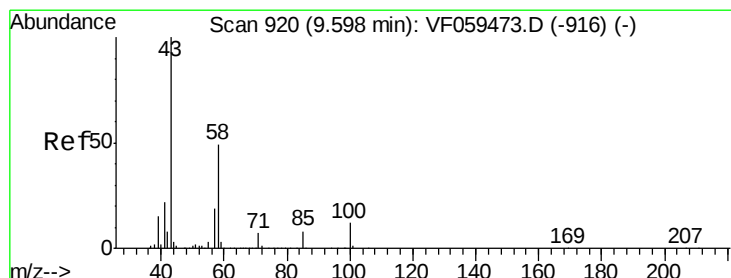
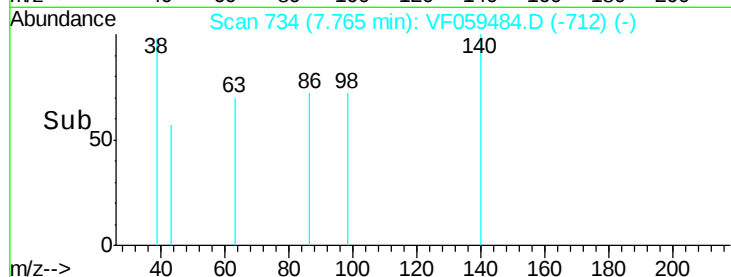
100

50

0

7.74 7.76 7.78

Time-->



#59

2-Hexanone

Concen: 1.71 ug/l

RT: 9.66 min Scan# 926

Delta R.T. 0.06 min

Lab File: VF059484.D

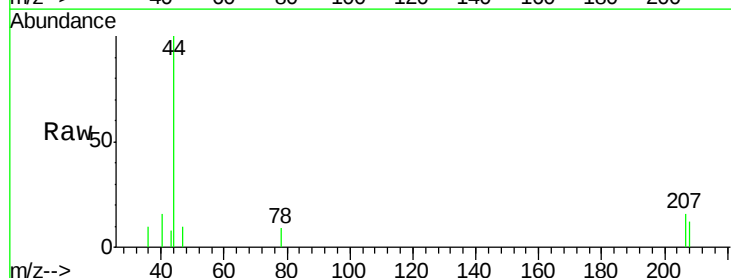
Acq: 10 Jul 2018 15:10

Tgt Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

58 0.0 22.4 67.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.66

120

100

80

60

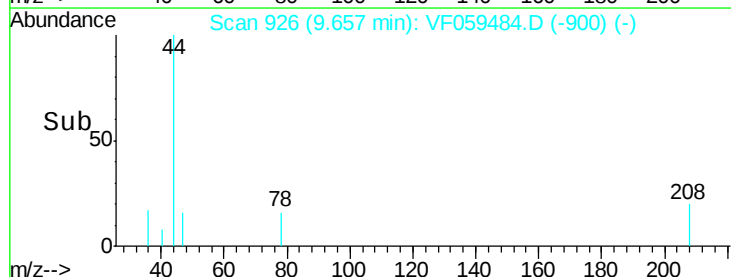
40

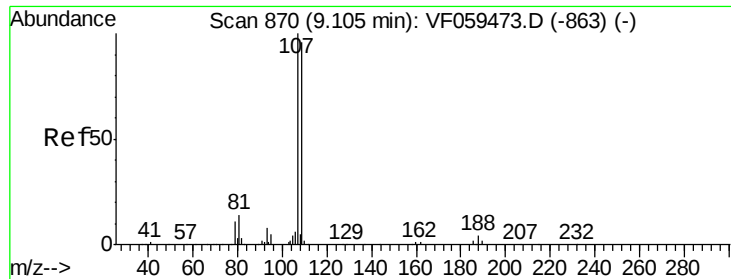
20

0

9.64 9.66 9.68

Time-->





#61

1,2-Dibromoethane

Concen: 1.46 ug/l

RT: 9.07 min Scan# 866

Delta R.T. -0.04 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

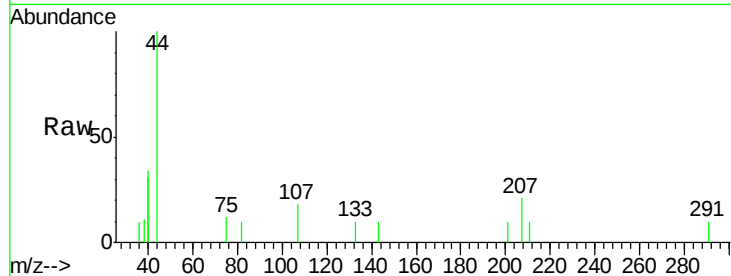
72-12002-RBR-RBR-VNJ-230RE

Tot Ion:107 Resp: 108

Ion Ratio Lower Upper

107 100

109 0.0 76.7 115.1#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.07

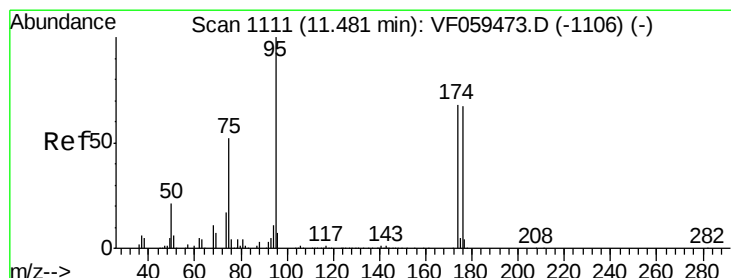
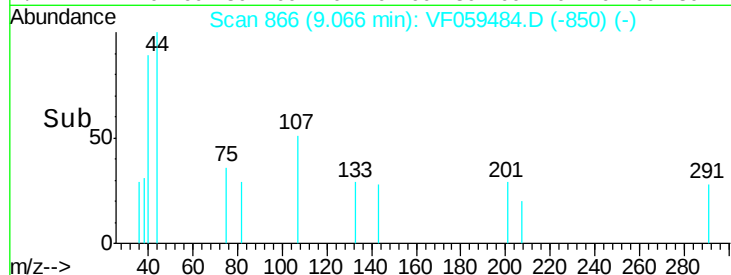
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 0.73 ug/l

RT: 11.54 min Scan# 1117

Delta R.T. 0.06 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

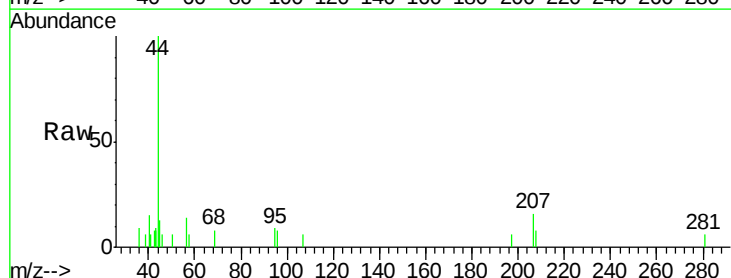
Tgt Ion: 95 Resp: 92

Ion Ratio Lower Upper

95 100

174 0.0 0.0 137.0

176 0.0 0.0 133.8



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

200

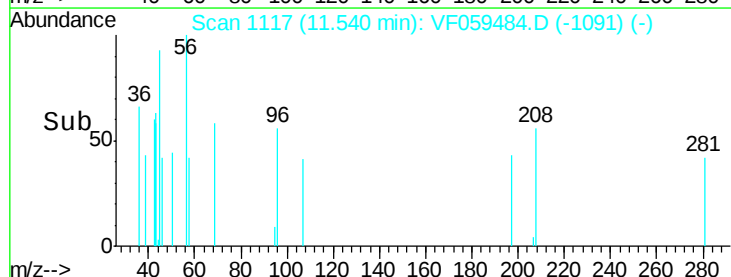
150

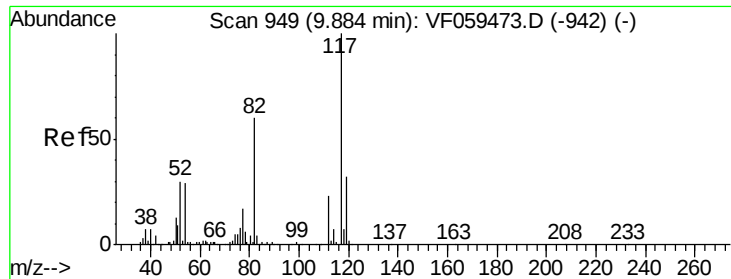
100

50

0

Time-->

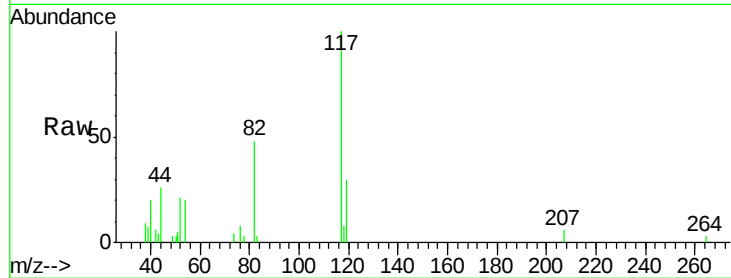




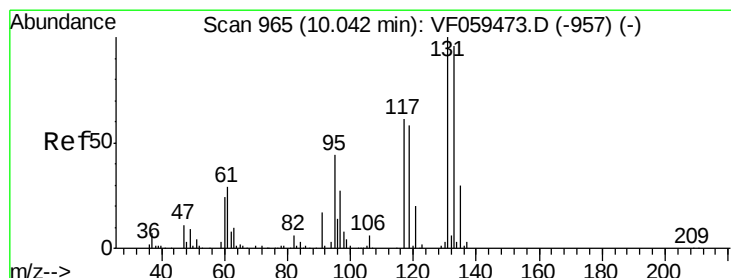
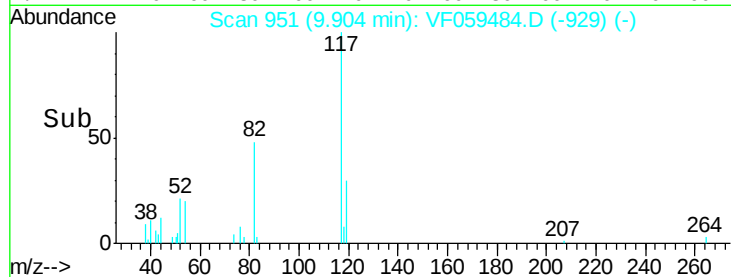
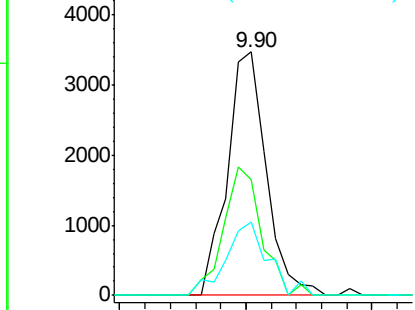
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 951
Delta R.T. 0.02 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

Instrument :
MSVOA_F
ClientSampleId :
72-12002-RBR-RBR-VNJ-230RE

Tot Ion:117 Resp: 7424
Ion Ratio Lower Upper
117 100
82 47.6 48.2 72.4#
119 29.9 25.7 38.5

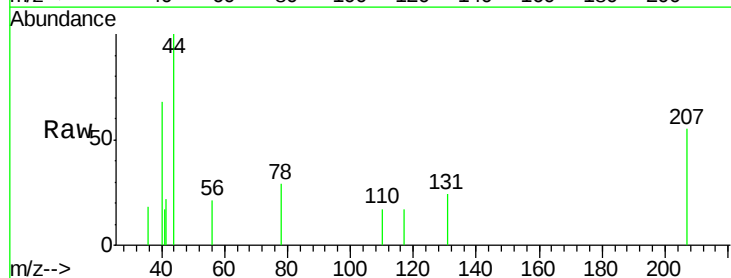


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

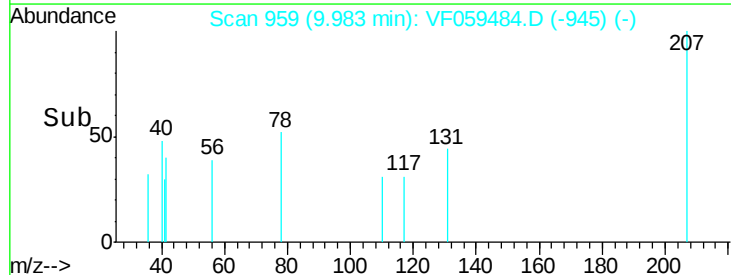
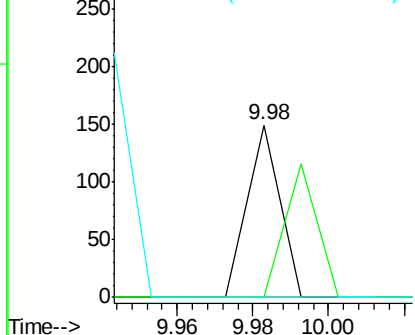


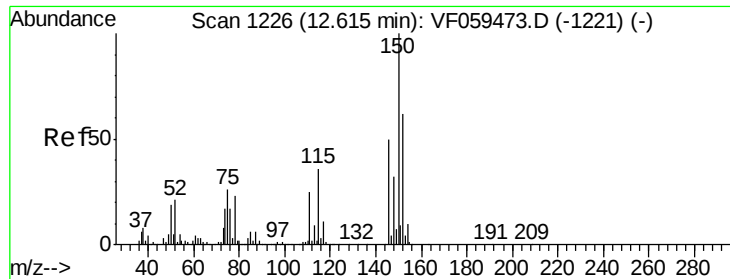
#66
1,1,1,2-Tetrachloroethane
Concen: 1.32 ug/l
RT: 9.98 min Scan# 959
Delta R.T. -0.06 min
Lab File: VF059484.D
Acq: 10 Jul 2018 15:10

Tgt Ion:131 Resp: 88
Ion Ratio Lower Upper
131 100
133 0.0 48.1 144.3#
119 0.0 29.3 87.8#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. 0.01 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE

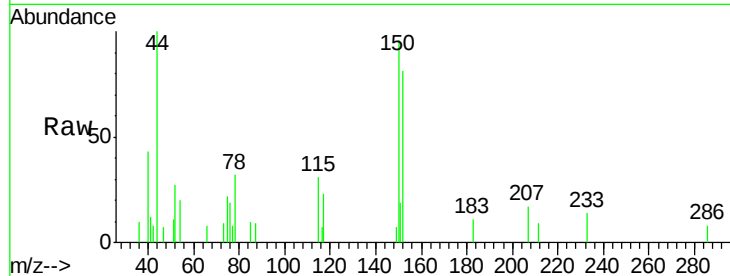
Tot Ion:152 Resp: 1857

Ion Ratio Lower Upper

152 100

115 38.4 28.7 86.3

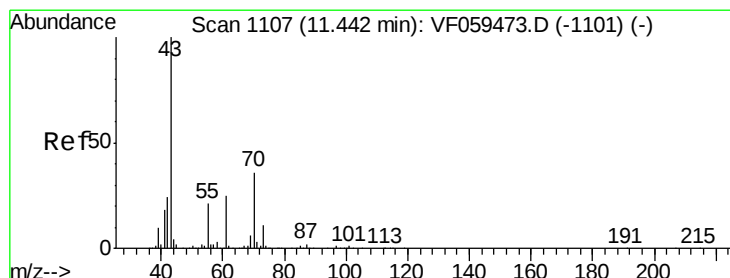
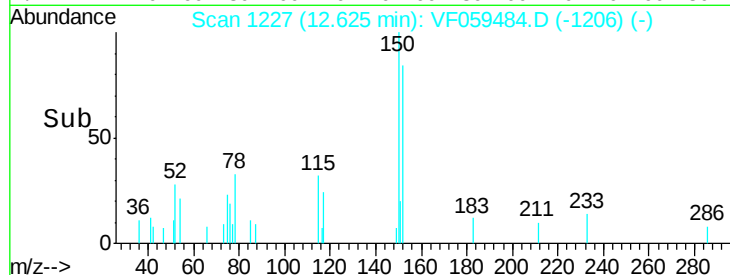
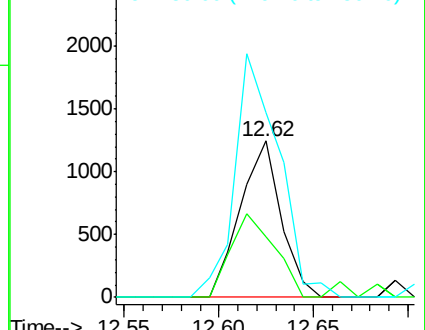
150 118.5 0.0 323.8



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-aryl acetate

Concen: 8.30 ug/l

RT: 11.43 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Tgt Ion: 43 Resp: 286

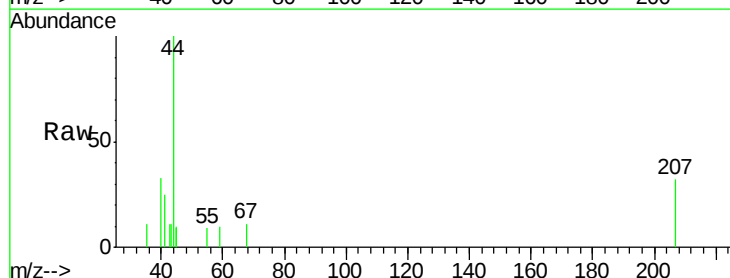
Ion Ratio Lower Upper

43 100

70 0.0 28.7 43.1#

55 42.8 16.6 24.8#

61 0.0 20.1 30.1#

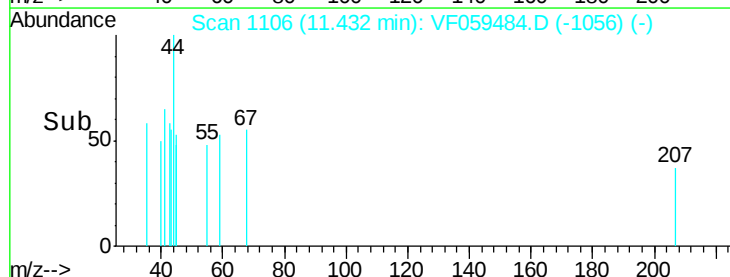
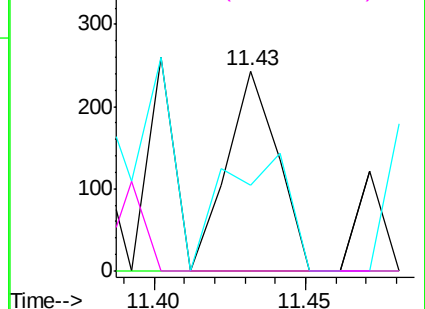


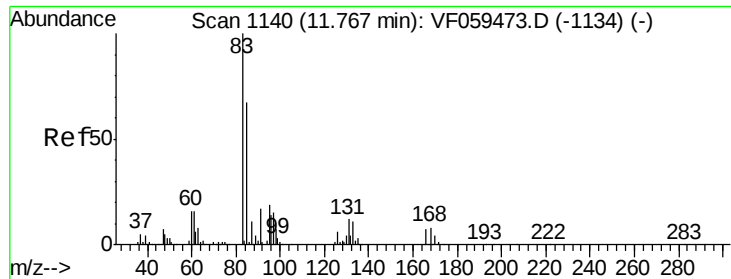
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 2.92 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.02 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE

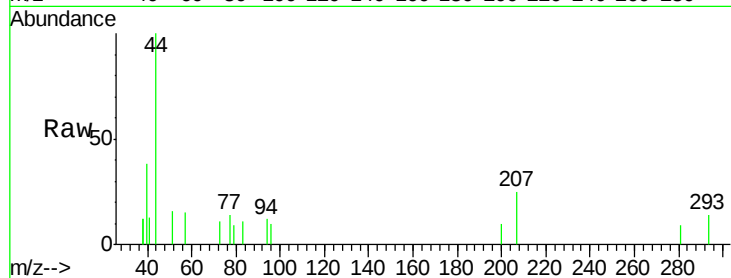
Tot Ion: 83 Resp: 75

Ion Ratio Lower Upper

83 100

131 0.0 6.0 18.0#

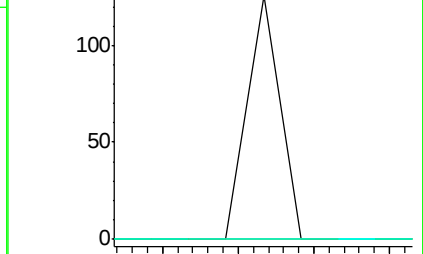
85 0.0 33.7 101.1#



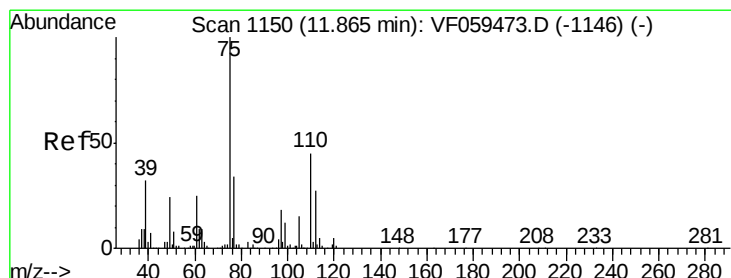
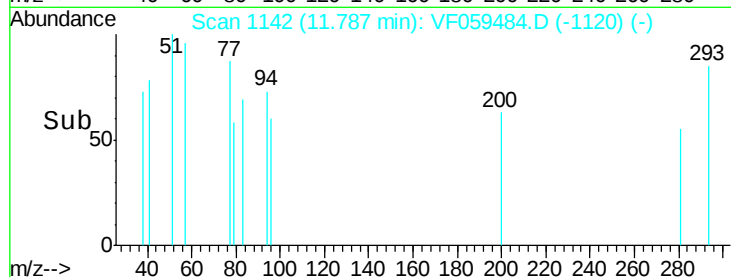
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



Time-->



#76

1,2,3-Trichloropropane

Concen: 3.21 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.09 min

Lab File: VF059484.D

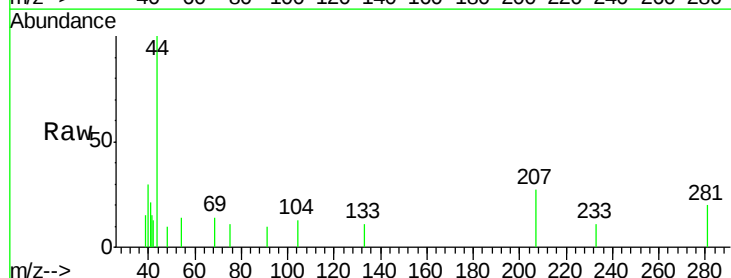
Acq: 10 Jul 2018 15:10

Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

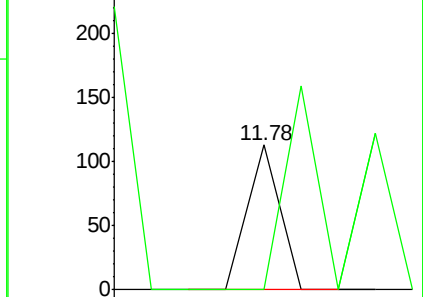
75 100

77 0.0 16.9 50.6#

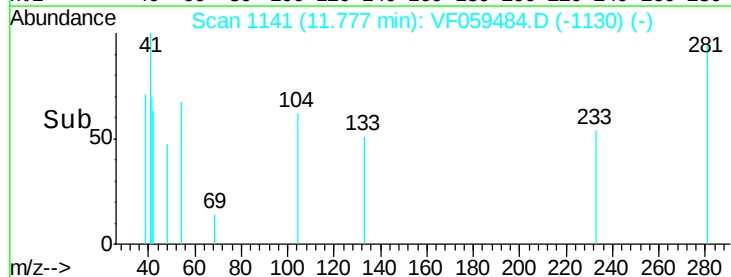


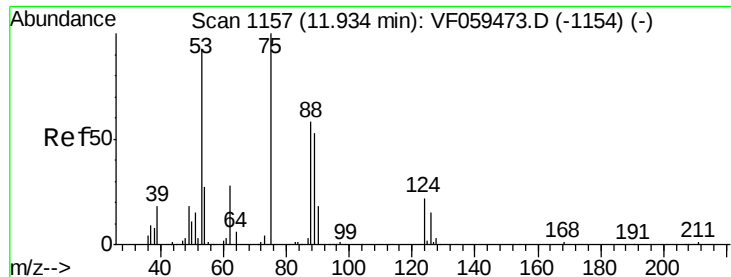
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 7.57 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE

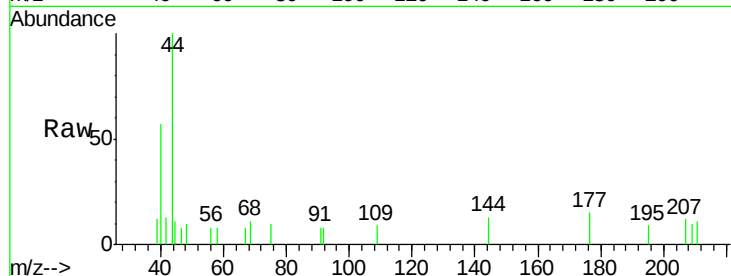
Tot Ion: 75 Resp: 82

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

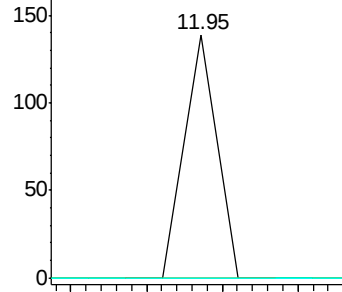
89 0.0 45.9 68.9#



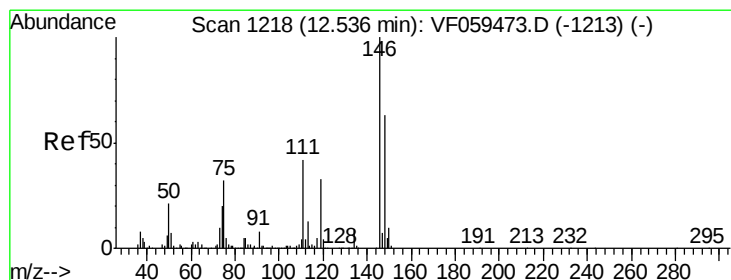
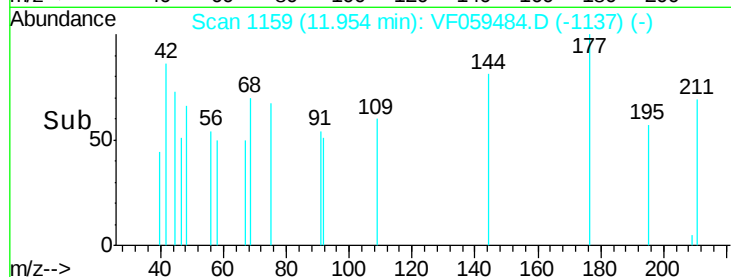
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



Time--> 11.92 11.94 11.96 11.98



#87

1,3-Dichlorobenzene

Concen: 1.39 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. 0.02 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

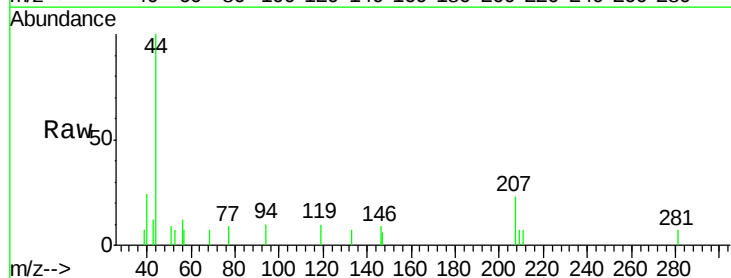
Tgt Ion: 146 Resp: 82

Ion Ratio Lower Upper

146 100

111 0.0 21.0 63.0#

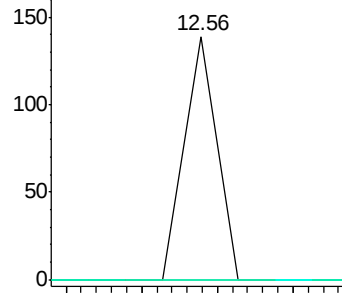
148 0.0 31.6 94.8#



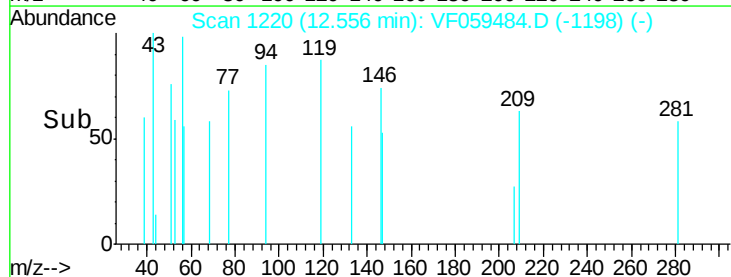
Abundance Ion 146.00 (145.70 to 146.70): V

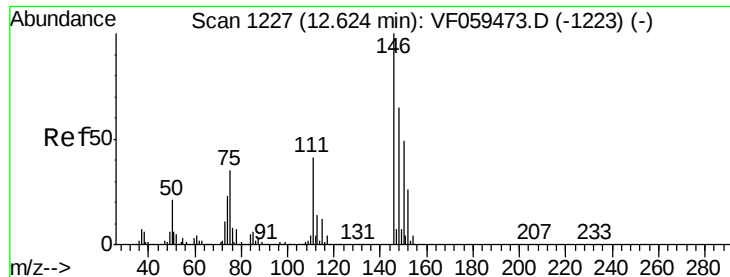
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



Time--> 12.52 12.54 12.56 12.58





#88

1,4-Dichlorobenzene

Concen: 1.42 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. -0.07 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE

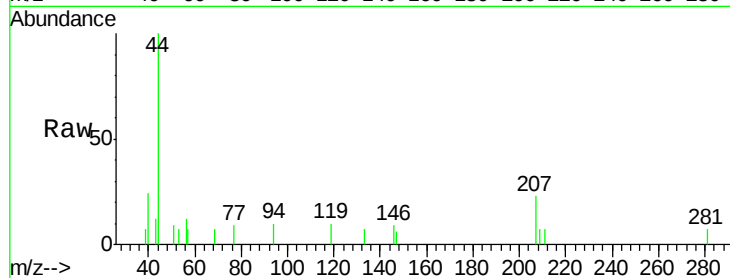
Tot Ion:146 Resp: 82

Ion Ratio Lower Upper

146 100

111 0.0 20.8 62.2#

148 0.0 32.6 97.8#

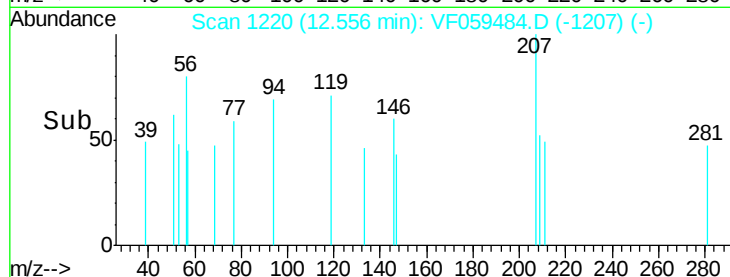


Abundance Ion 146.00 (145.70 to 146.70): V

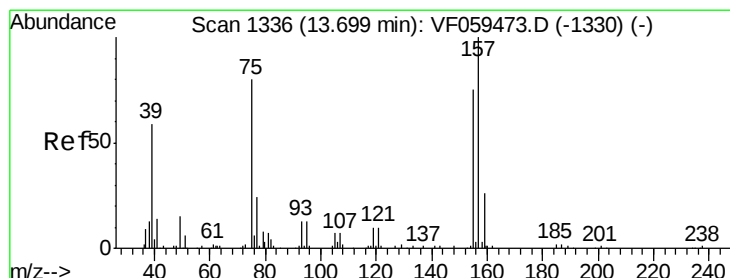
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

12.56



Time--> 12.52 12.54 12.56 12.58



#92

1,2-Dibromo-3-Chloropropane

Concen: 11.05 ug/l

RT: 13.65 min Scan# 1331

Delta R.T. -0.05 min

Lab File: VF059484.D

Acq: 10 Jul 2018 15:10

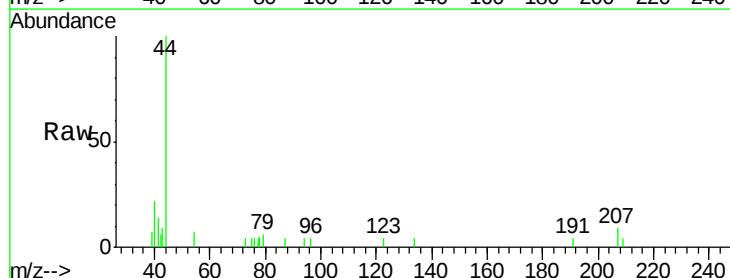
Tgt Ion: 75 Resp: 71

Ion Ratio Lower Upper

75 100

155 0.0 47.3 141.8#

157 0.0 62.6 187.8#

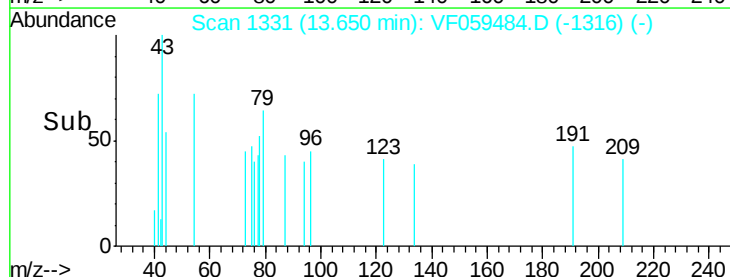


Abundance Ion 75.00 (74.70 to 75.70): VF0

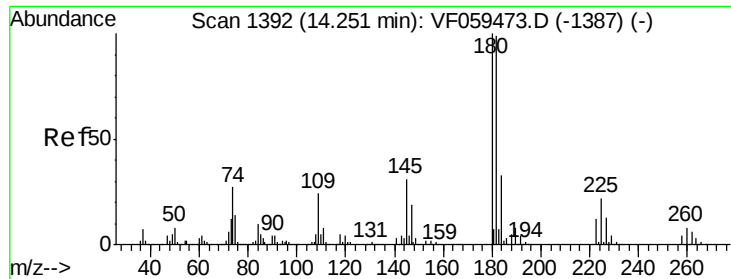
Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

13.65



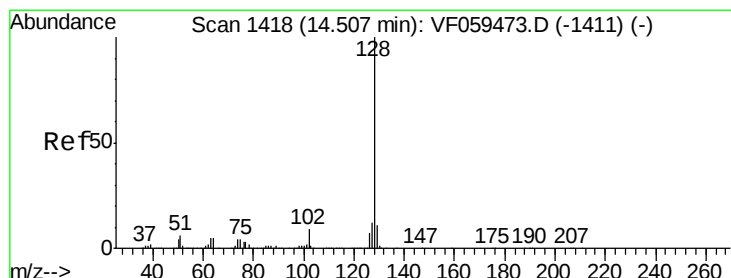
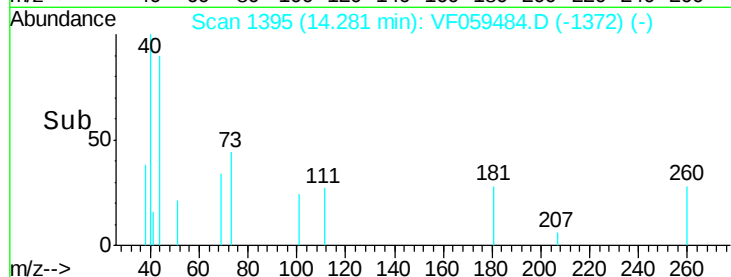
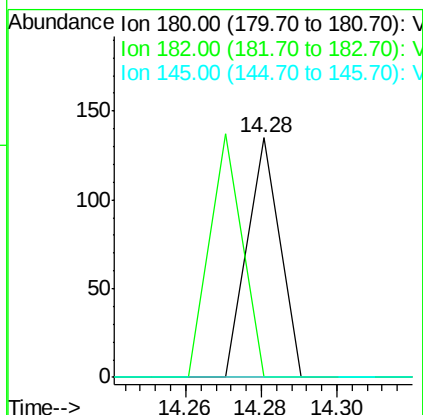
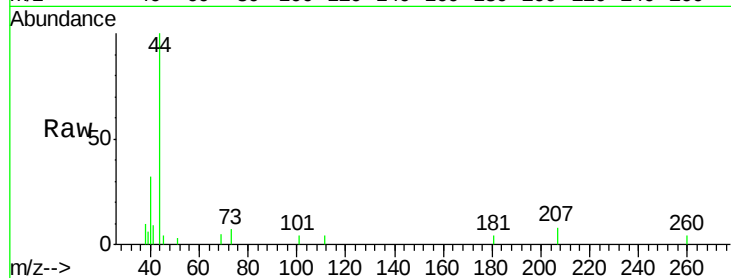
Time--> 13.62 13.64 13.66 13.68



#93
 1,2,4-Trichlorobenzene
 Concen: 1.84 ug/l
 RT: 14.28 min Scan# 1395
 Delta R.T. 0.03 min
 Lab File: VF059484.D
 Acq: 10 Jul 2018 15:10

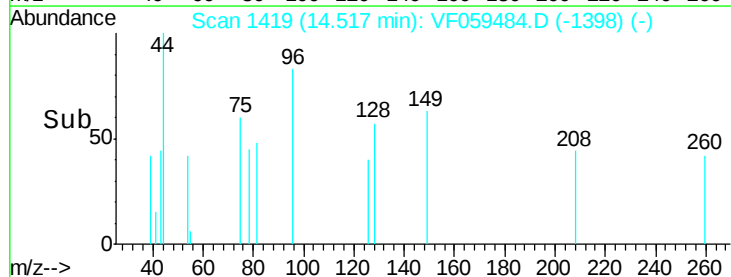
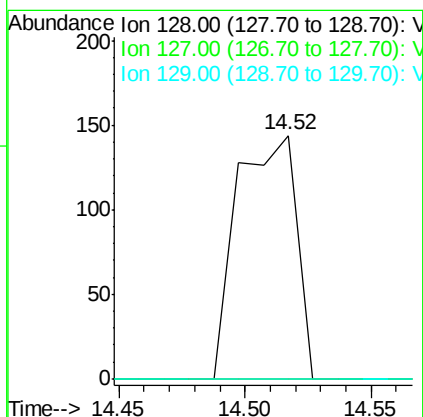
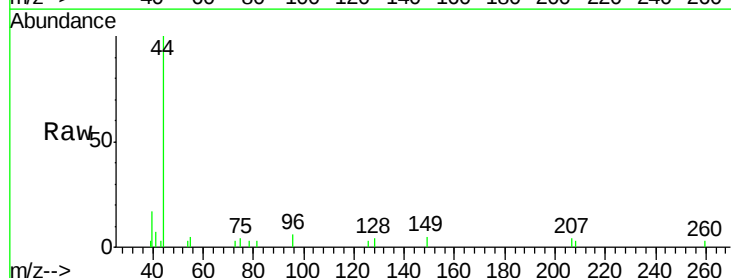
Instrument :
 MSVOA_F
 ClientSampleId :
 72-12002-RBR-RBR-VNJ-230RE

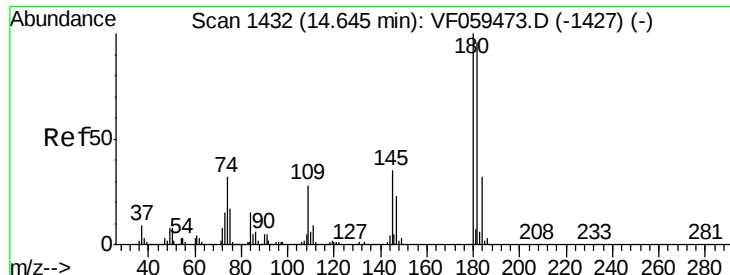
Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	49.5	148.7#
145	0.0	15.4	46.2#



#95
 Naphthalene
 Concen: 2.71 ug/l
 RT: 14.52 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VF059484.D
 Acq: 10 Jul 2018 15:10

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.9	14.9#
129	0.0	9.0	13.6#





#96

1,2,3-Trichlorobenzene

Concen: 1.61 ug/l

RT: 14.66 min Scan# 1433

Delta R.T. 0.01 min

Lab File: VF059484.D

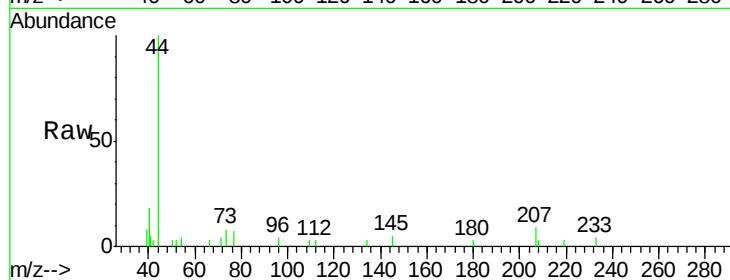
Acq: 10 Jul 2018 15:10

Instrument :

MSVOA_F

ClientSampleId :

72-12002-RBR-RBR-VNJ-230RE



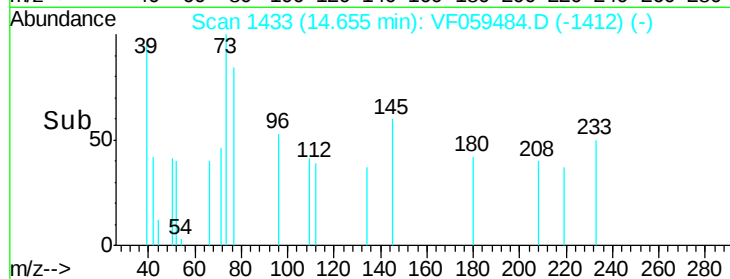
Tot Ion:180 Resp: 68

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.7#

145 141.7 17.5 52.5#



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

