

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF073118\
 Data File : VF059740.D
 Acq On : 1 Aug 2018 7:21
 Operator : VA/AP
 Sample : J4140-04RE
 Misc : 14.50g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 01 08:34:24 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	5.05	168	10762	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.77	114	17436	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	2978	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	319	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	12194	63.05	ug/l	0.00
Spiked Amount			Recovery	=	126.10%	
35) Dibromofluoromethane	4.29	113	13406	74.03	ug/l	0.00
Spiked Amount			Recovery	=	148.06%	
50) Toluene-d8	7.71	98	9663	22.88	ug/l	0.00
Spiked Amount			Recovery	=	45.76%	
62) 4-Bromofluorobenzene	11.53	95	573	2.45	ug/l	0.02
Spiked Amount			Recovery	=	4.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	102	Below Cal	#	44
3) Chloromethane	1.10	50	271	Below Cal	#	71
4) Vinyl Chloride	1.15	62	69	Below Cal	#	47
5) Bromomethane	1.33	94	72	Below Cal	#	4
6) Chloroethane	1.41	64	67	Below Cal	#	35
8) Diethyl Ether	1.63	74	64	1.862	ug/l	97
10) Methyl Iodide	2.07	142	84	Below Cal	#	20
11) Tert butyl alcohol	2.73	59	67	7.174	ug/l #	74
12) 1,1-Dichloroethene	1.78	96	85	1.020	ug/l #	4
13) Acrolein	2.14	56	71	32.329	ug/l #	4
14) Allyl chloride	2.20	41	169	1.270	ug/l #	1
15) Acrylonitrile	3.16	53	63	5.103	ug/l #	7
16) Acetone	2.34	43	956	27.479	ug/l #	68
17) Carbon Disulfide	1.85	76	665	Below Cal	#	71
18) Methyl Acetate	2.44	43	138	Below Cal	#	64
20) Methylene Chloride	2.27	84	299	Below Cal	#	47
21) trans-1,2-Dichloroethene	2.39	96	152	Below Cal	#	1
25) 2-Butanone	4.50	43	250	6.439	ug/l #	74
28) Bromochloromethane	3.90	49	151	Below Cal		90
29) Tetrahydrofuran	4.41	42	103	6.902	ug/l #	39
31) Cyclohexane	3.89	56	104	Below Cal	#	15
36) 1,1-Dichloropropene	4.51	75	134	Below Cal	#	46
37) Ethyl Acetate	4.28	43	63	Below Cal	#	19
39) Methylcyclohexane	5.65	83	89	Below Cal	#	13
41) Methacrylonitrile	4.90	41	90	Below Cal	#	51
45) 1,2-Dichloropropane	6.38	63	102	1.097	ug/l #	1
48) Methyl methacrylate	6.85	41	79	1.007	ug/l #	61
49) 1,4-Dioxane	6.67	88	79	71.964	ug/l #	21
51) 4-Methyl-2-Pentanone	8.25	43	306	3.858	ug/l	91
52) Toluene	7.80	92	166	Below Cal	#	1
58) 2-Chloroethyl Vinyl ether	7.87	63	66	5.748	ug/l	100
59) 2-Hexanone	9.55	43	86	1.353	ug/l #	30
69) o-Xylene	10.74	106	66	1.738	ug/l #	1
70) Styrene	10.86	104	61	1.060	ug/l #	26

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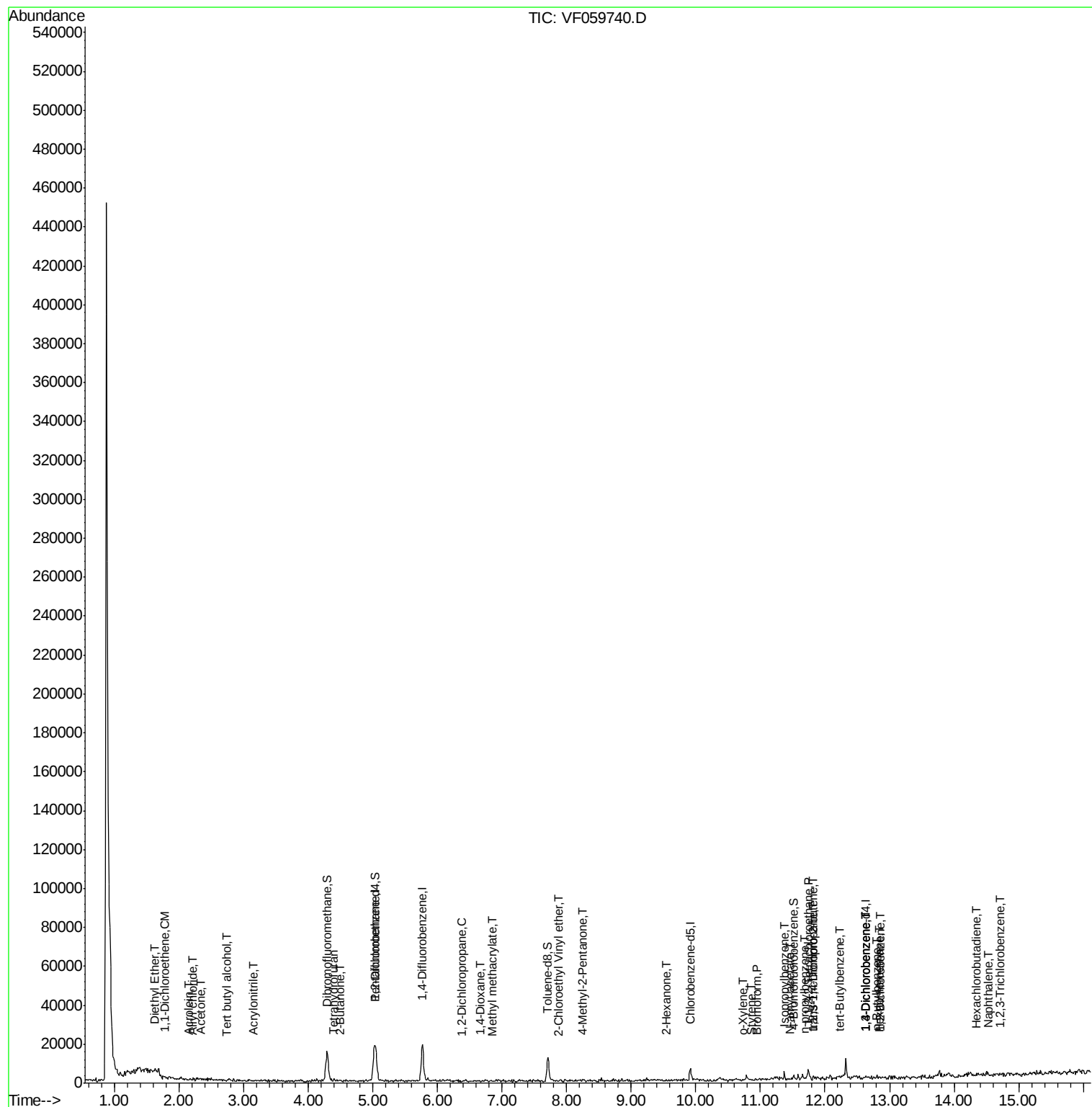
71) Bromoform	10.95	173	63	3.476	ug/l #	30
73) Isopropylbenzene	11.37	105	60	2.867	ug/l #	50
74) N-amyl acetate	11.46	43	64	12.120	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	11.74	83	204	51.776	ug/l #	80
76) 1,2,3-Trichloropropane	11.82	75	72	21.490	ug/l #	1
78) n-propylbenzene	11.68	91	147	2.046	ug/l #	54
81) trans-1,4-Dichloro-2-buten	11.82	75	72	51.891	ug/l #	9
83) tert-Butylbenzene	12.23	119	92	4.896	ug/l #	26
84) 1,2,4-Trimethylbenzene	12.33	105	69	Below Cal	#	33
85) sec-Butylbenzene	12.41	105	67	Below Cal	#	57
87) 1,3-Dichlorobenzene	12.64	146	72	2.655	ug/l #	24
88) 1,4-Dichlorobenzene	12.64	146	72	4.244	ug/l #	24
89) n-Butylbenzene	12.81	91	174	4.623	ug/l #	76
90) Hexachloroethane	12.84	117	61	11.555	ug/l #	18
91) 1,2-Dichlorobenzene	12.86	146	72	4.258	ug/l #	24
94) Hexachlorobutadiene	14.35	225	72	13.761	ug/l #	19
95) Naphthalene	14.52	128	103	7.489	ug/l #	8
96) 1,2,3-Trichlorobenzene	14.70	180	62	8.156	ug/l #	13

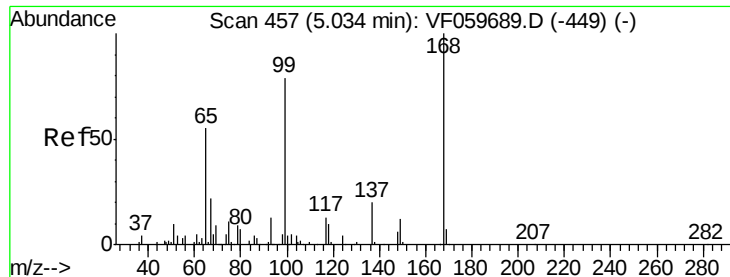
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

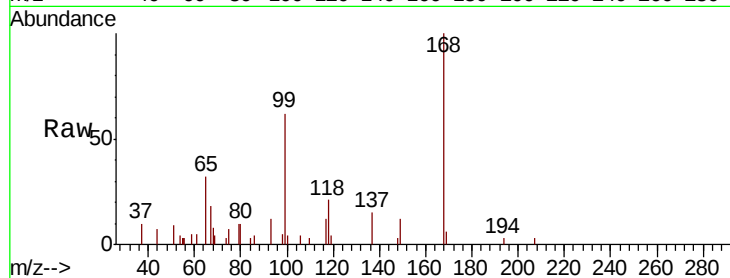
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 10762

Ion Ratio Lower Upper

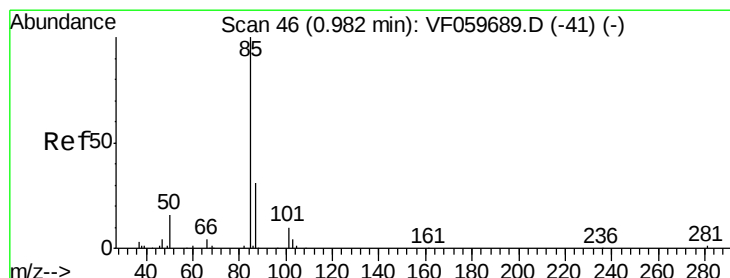
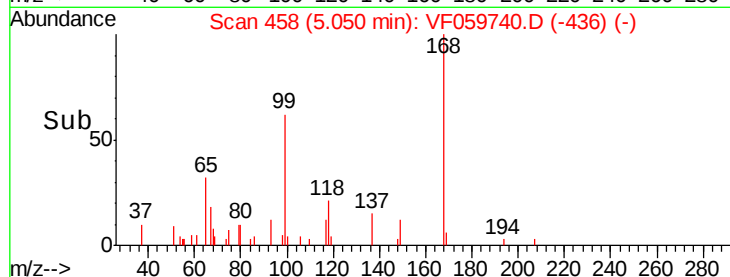
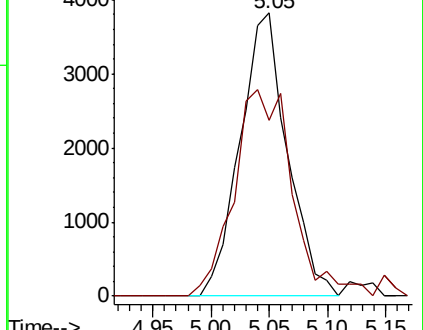
168 100

99 62.0 63.3 94.9#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF059740.D

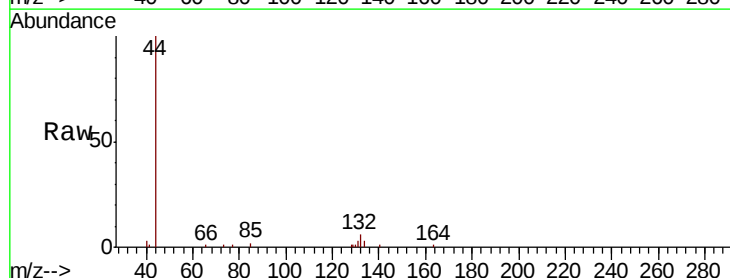
Acq: 1 Aug 2018 7:21

Tgt Ion: 85 Resp: 102

Ion Ratio Lower Upper

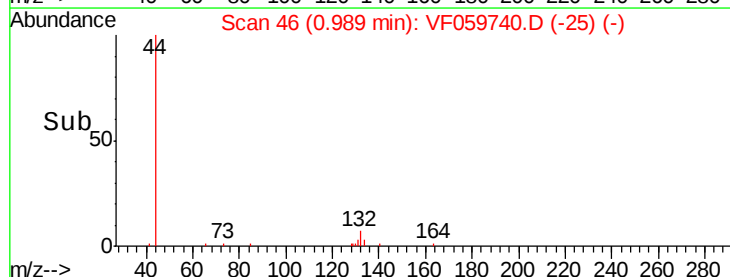
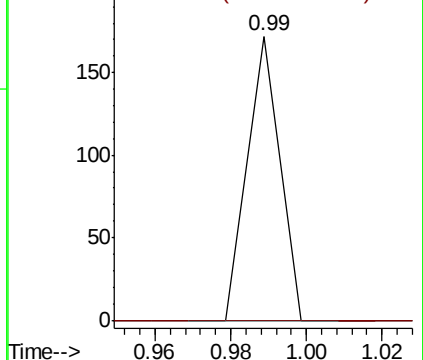
85 100

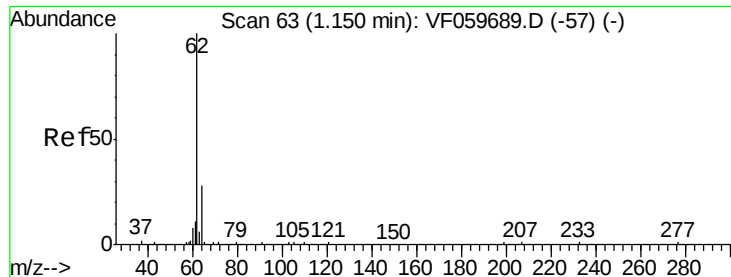
87 0.0 15.3 45.8#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#4

Vinyl Chloride

Concen: Below Cal

RT: 1.15 min Scan# 62

Delta R.T. -0.00 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

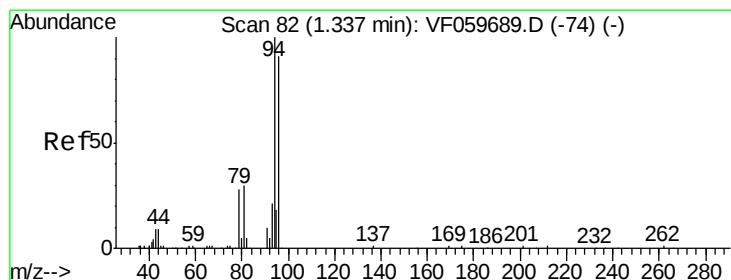
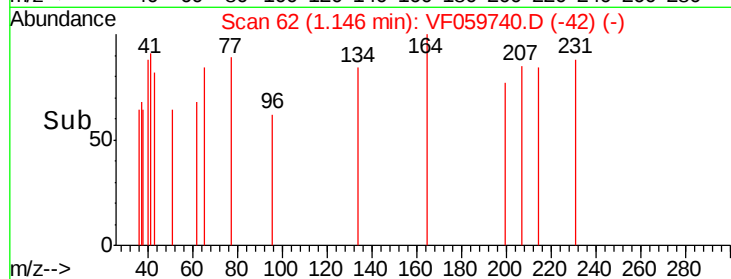
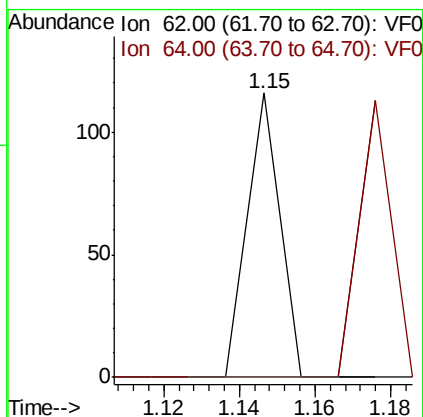
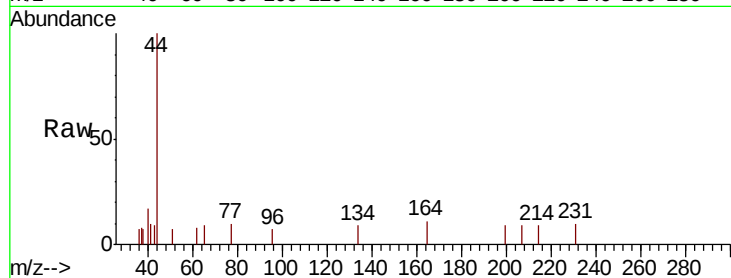
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 62 Resp: 69

Ion Ratio Lower Upper

62 100

64 0.0 22.6 33.8#



#5

Bromomethane

Concen: Below Cal

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059740.D

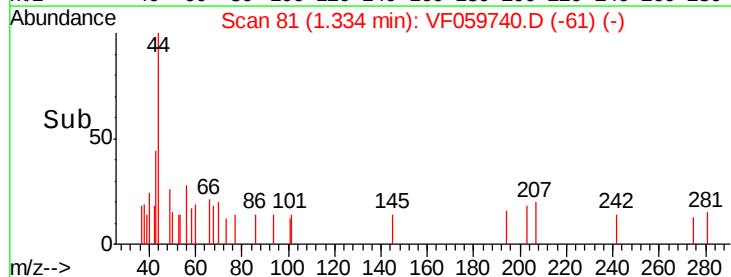
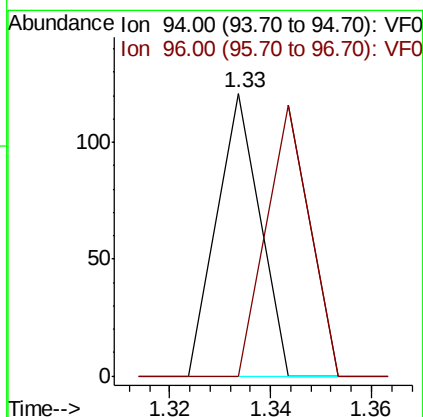
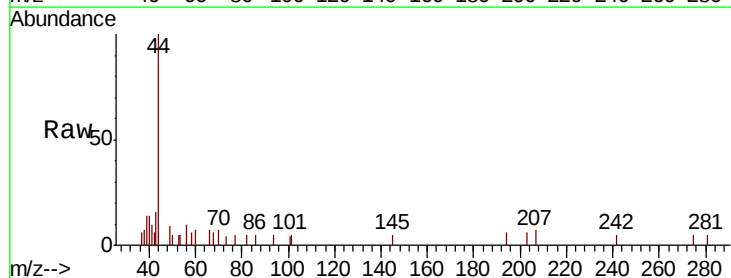
Acq: 1 Aug 2018 7:21

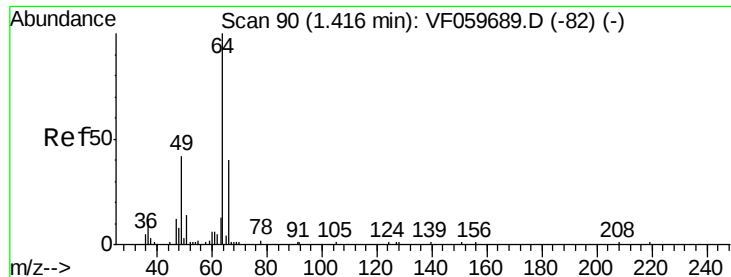
Tgt Ion: 94 Resp: 72

Ion Ratio Lower Upper

94 100

96 0.0 73.6 110.4#





#6

Chloroethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. -0.00 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

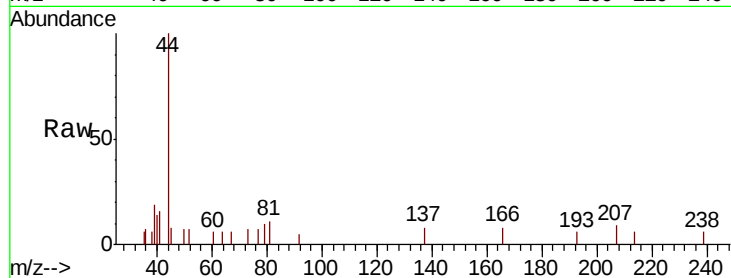
ClientSampled :

Tot Ion: 64 Resp: 67

Ion Ratio Lower Upper

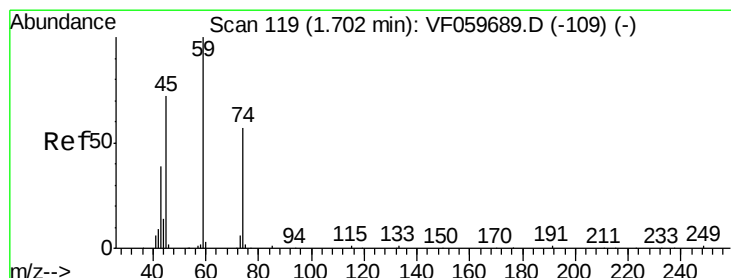
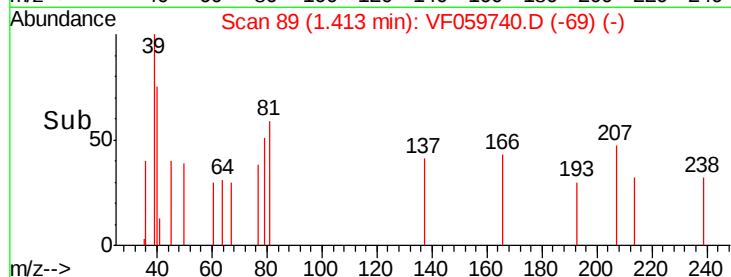
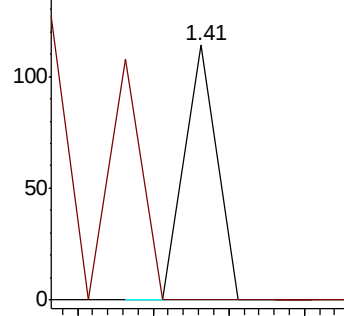
64 100

66 0.0 32.6 49.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 1.862 ug/l

RT: 1.63 min Scan# 111

Delta R.T. -0.07 min

Lab File: VF059740.D

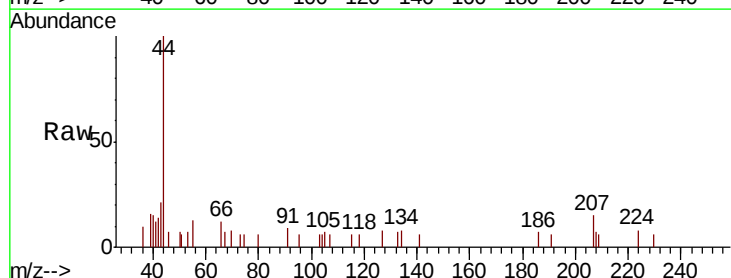
Acq: 1 Aug 2018 7:21

Tgt Ion: 74 Resp: 64

Ion Ratio Lower Upper

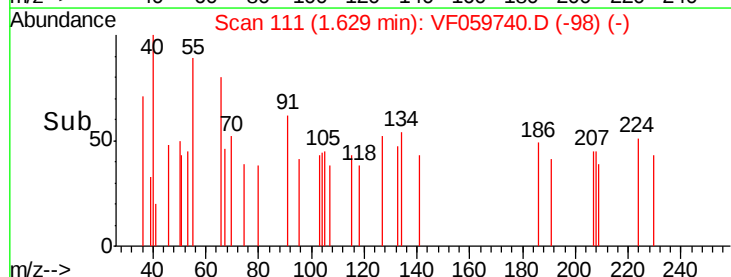
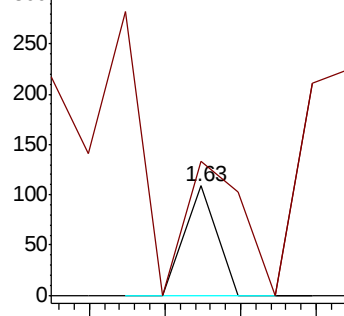
74 100

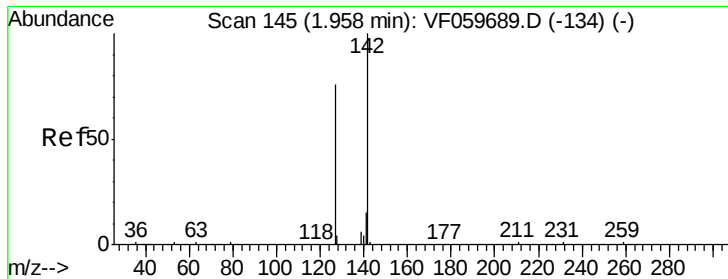
45 122.0 62.7 188.2



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

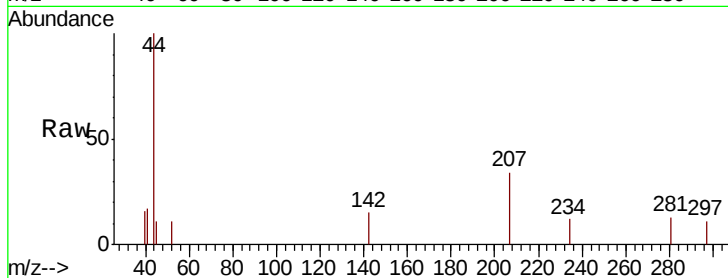




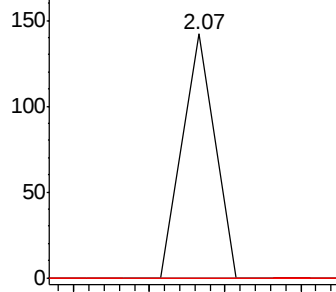
#10
Methyl Iodide
Concen: Below Cal
RT: 2.07 min Scan# 156
Delta R.T. 0.11 min
Lab File: VF059740.D
Acq: 1 Aug 2018 7:21

Instrument :
MSVOA_F
ClientSampleId :

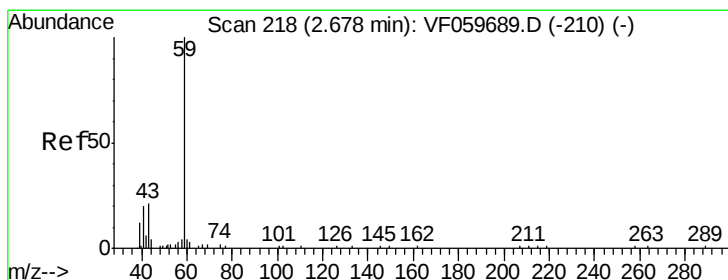
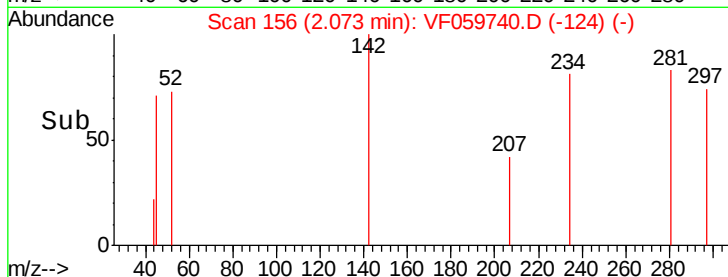
Tot Ion:142 Resp: 84
Ion Ratio Lower Upper
142 100
127 0.0 60.6 91.0#
141 0.0 12.0 18.0#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V

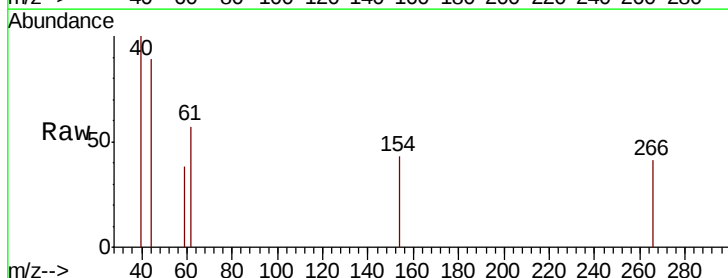


Time-->

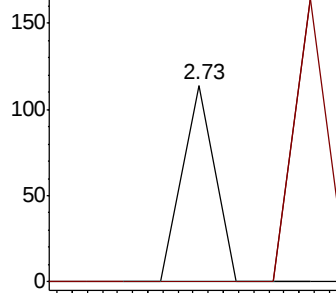


#11
Tert butyl alcohol
Concen: 7.174 ug/l
RT: 2.73 min Scan# 223
Delta R.T. 0.06 min
Lab File: VF059740.D
Acq: 1 Aug 2018 7:21

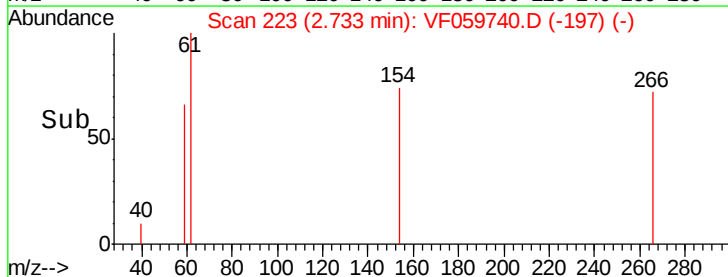
Tgt Ion: 59 Resp: 67
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#

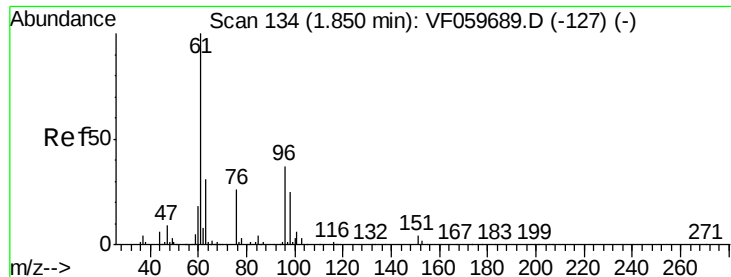


Abundance Ion 59.00 (58.70 to 59.70): VF0
Ion 57.00 (56.70 to 57.70): VF0



Time-->





#12

1,1-Dichloroethene

Concen: 1.020 ug/l

RT: 1.78 min Scan# 126

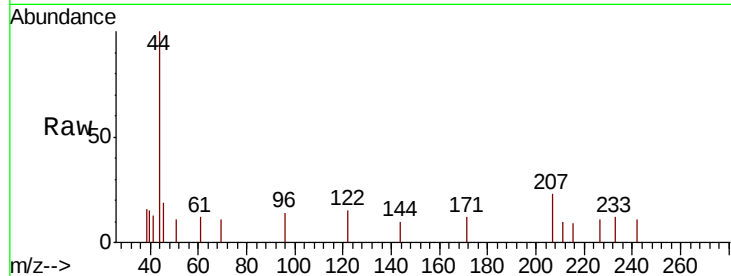
Delta R.T. -0.07 min

Lab File: VF059740.D

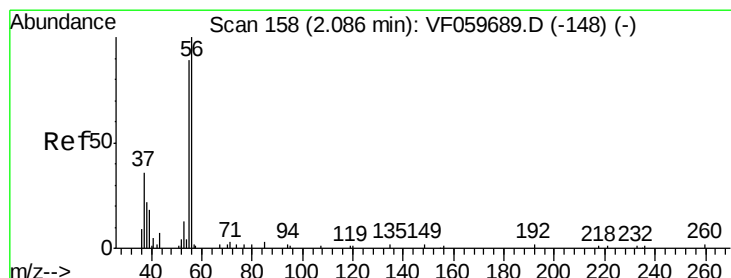
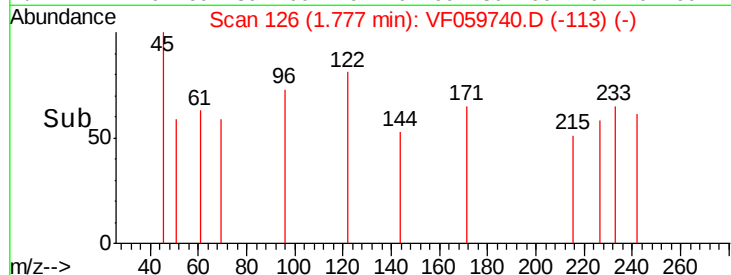
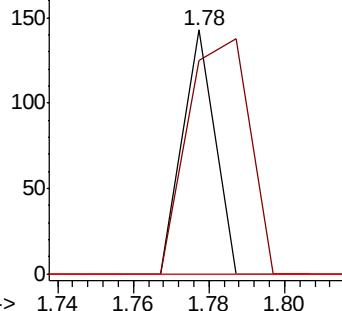
Acq: 1 Aug 2018 7:21

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Tot Ion	Ratio	Lower	Upper
96	100		
61	87.4	215.1	322.7#
98	0.0	54.3	81.5#



Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



#13

Acrolein

Concen: 32.329 ug/l

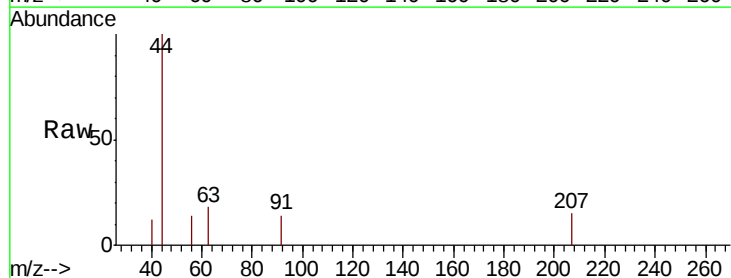
RT: 2.14 min Scan# 163

Delta R.T. 0.06 min

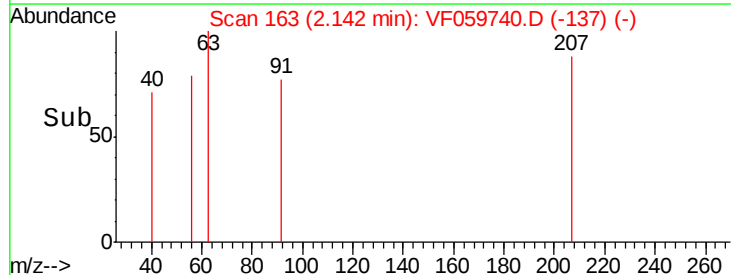
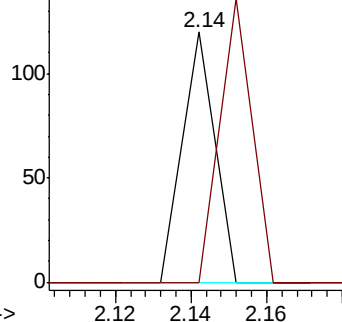
Lab File: VF059740.D

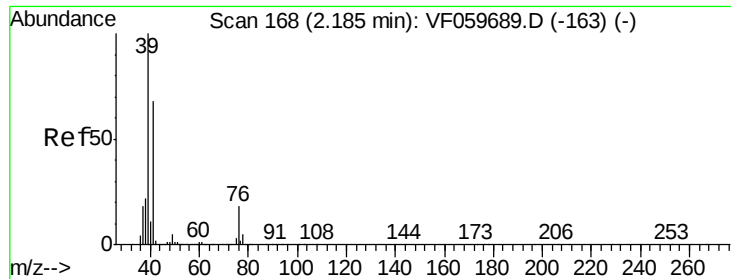
Acq: 1 Aug 2018 7:21

Tgt 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

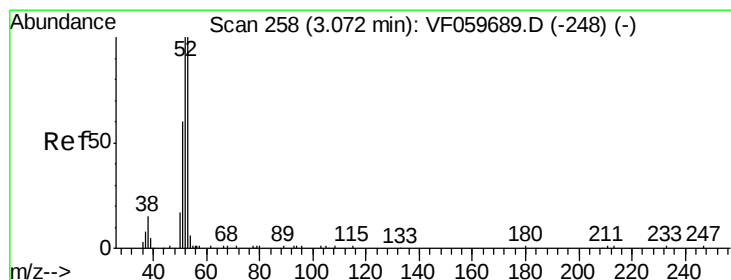
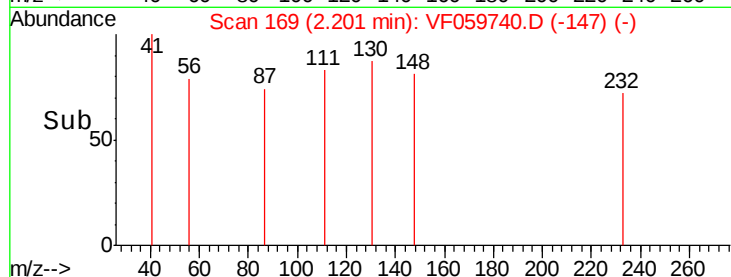
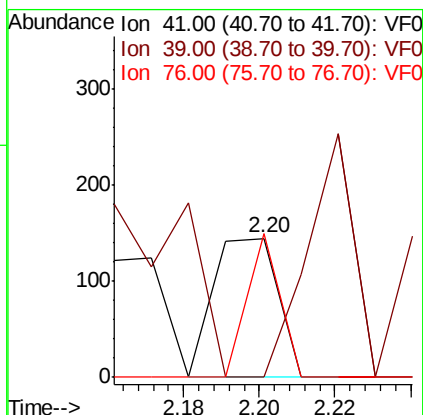
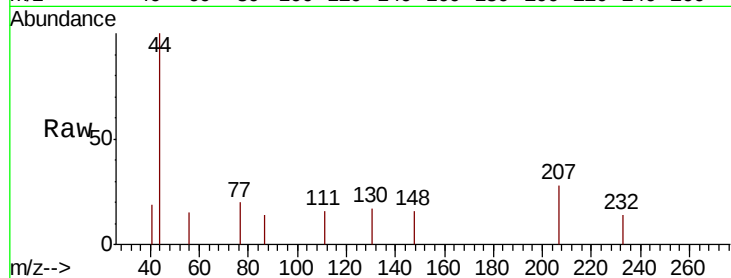




#14
Allvl chloride
Concen: 1.270 ug/l
RT: 2.20 min Scan# 169
Delta R.T. 0.02 min
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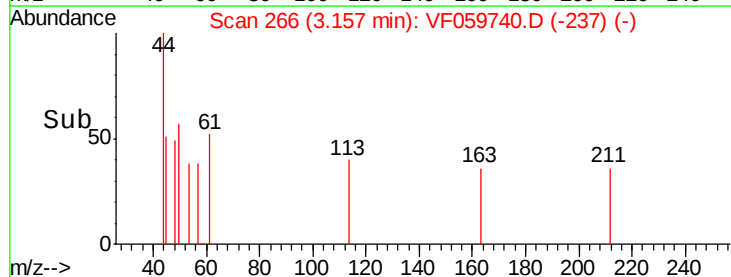
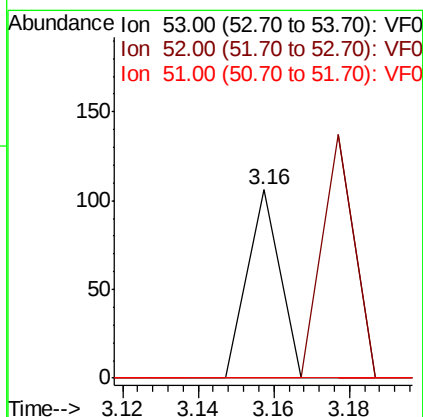
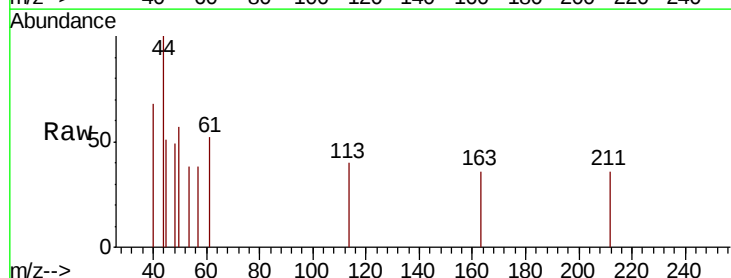
Instrument :
MSVOA_F
ClientSampled :

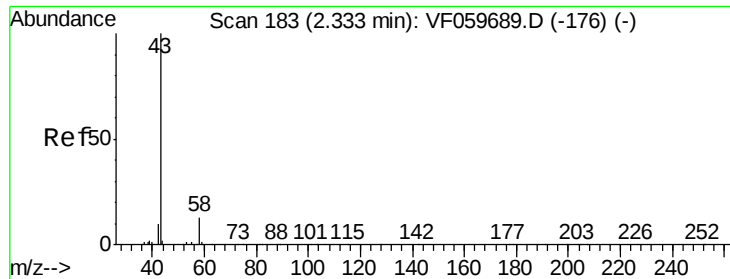
Tot Ion: 41 Resp: 169
Ion Ratio Lower Upper
41 100
39 0.0 118.1 177.1#
76 103.5 22.0 33.0#



#15
Acrylonitrile
Concen: 5.103 ug/l
RT: 3.16 min Scan# 266
Delta R.T. 0.09 min
Lab File: VF059740.D
Acq: 1 Aug 2018 7:21

Tgt Ion: 53 Resp: 63
Ion Ratio Lower Upper
53 100
52 0.0 80.3 120.5#
51 0.0 49.4 74.0#





#16

Acetone

Concen: 27.479 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

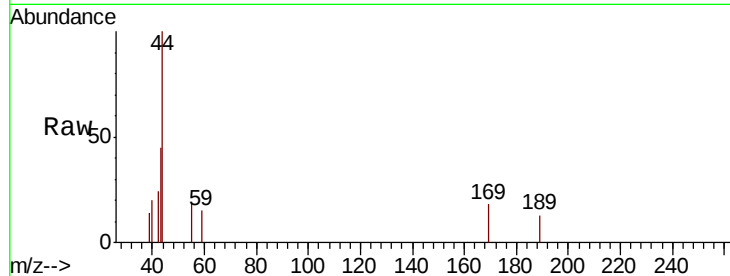
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 956

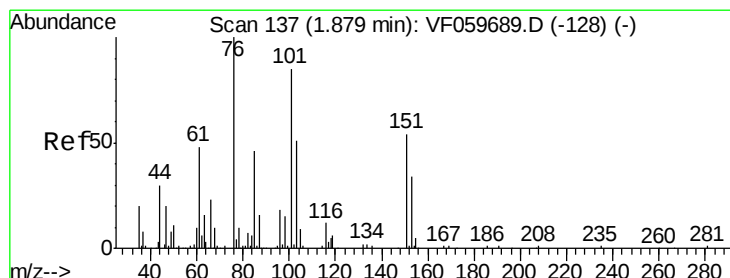
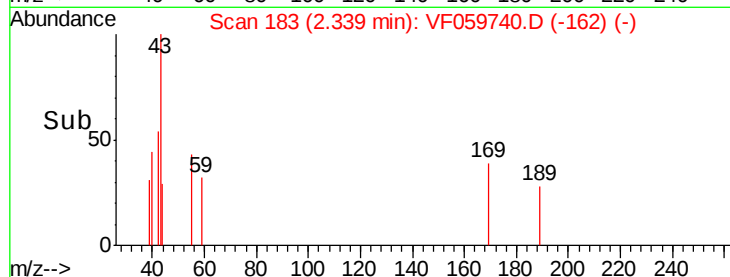
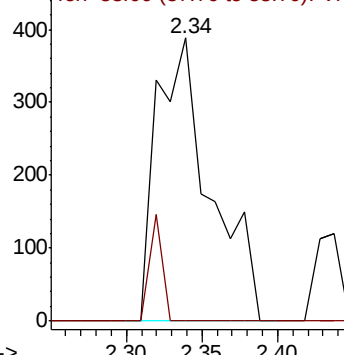
Ion Ratio Lower Upper

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



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.85 min Scan# 133

Delta R.T. -0.03 min

Lab File: VF059740.D

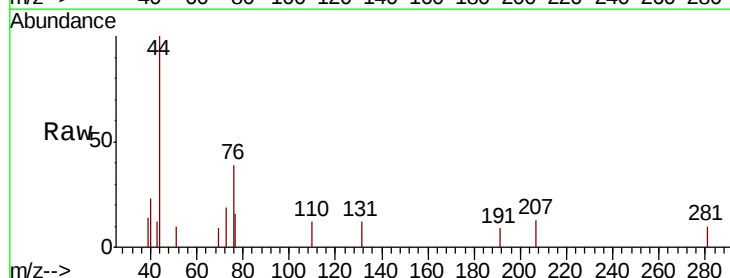
Acq: 1 Aug 2018 7:21

Tgt Ion: 76 Resp: 665

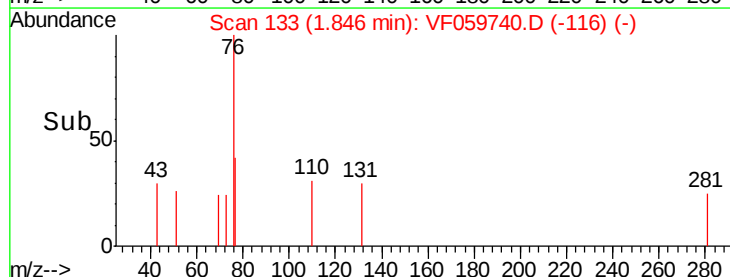
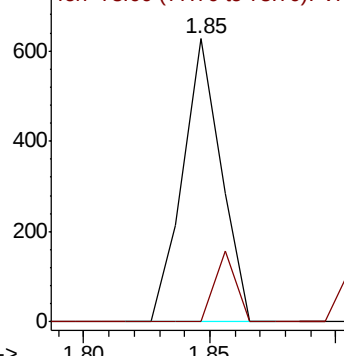
Ion Ratio Lower Upper

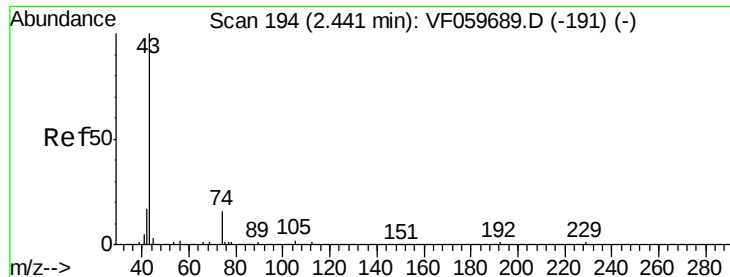
76 100

78 0.0 8.9 13.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0
Ion 78.00 (77.70 to 78.70): VF0

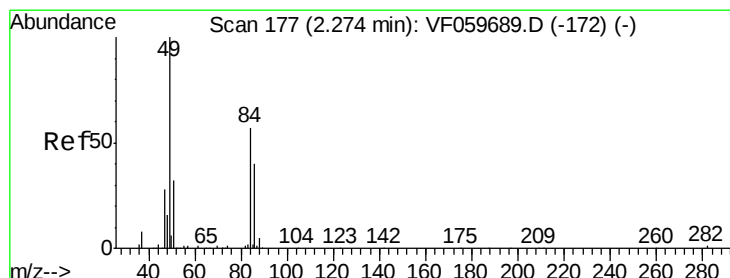
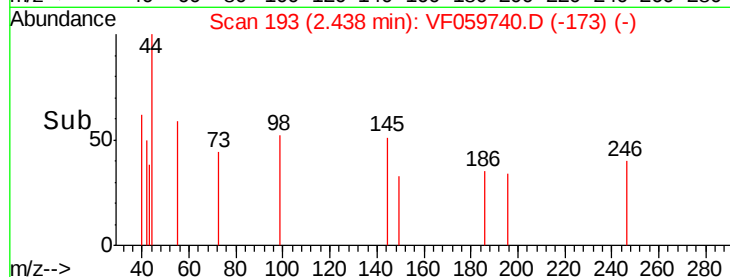
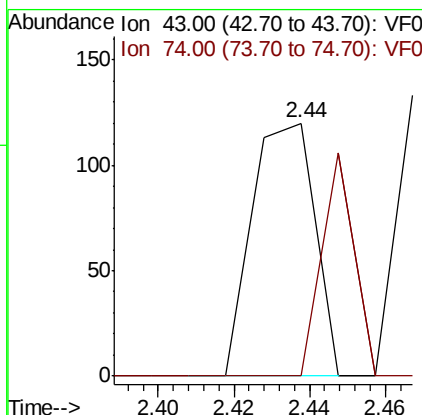
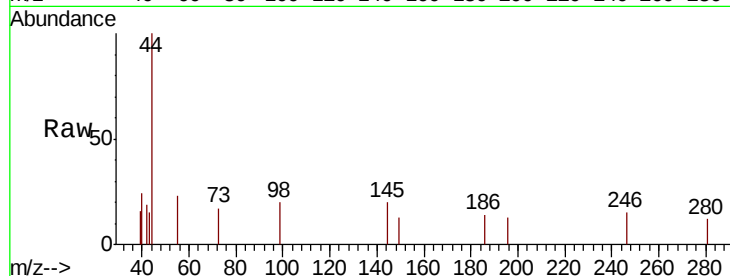




#18
Methyl Acetate
Concen: Below Cal
RT: 2.44 min Scan# 193
Delta R.T. -0.00 min
Lab File: VF059740.D
Acq: 1 Aug 2018 7:21

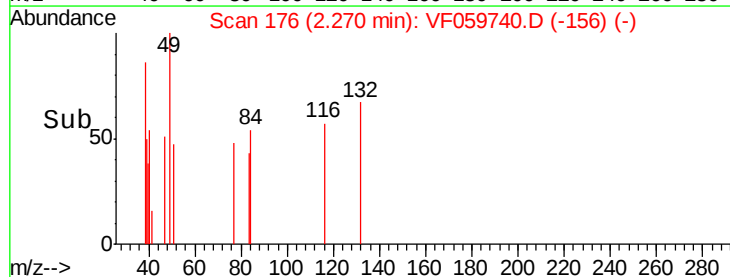
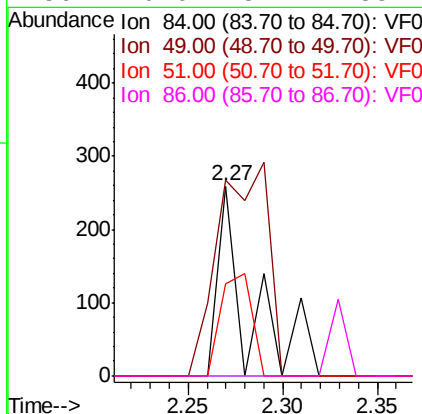
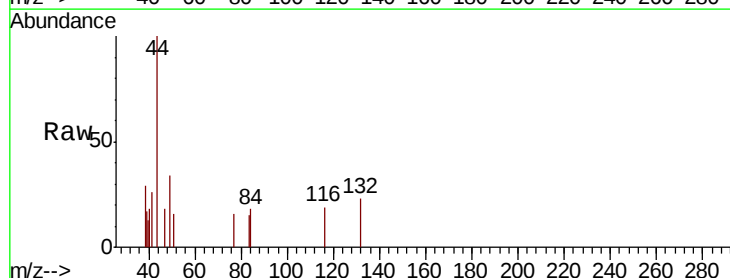
Instrument :
MSVOA_F
ClientSampled :

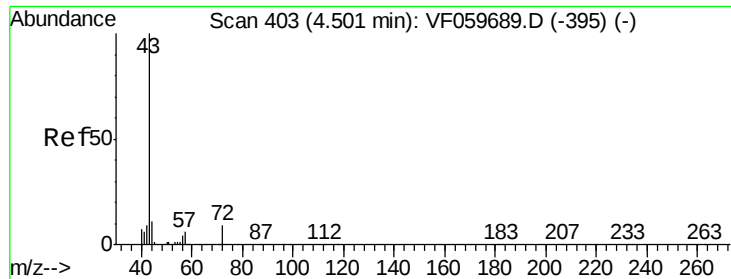
Tot Ion: 43 Resp: 138
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059740.D
Acq: 1 Aug 2018 7:21

Tgt Ion: 84 Resp: 299
Ion Ratio Lower Upper
84 100
49 103.1 142.2 213.4#
51 48.6 46.2 69.2
86 0.0 57.1 85.7#

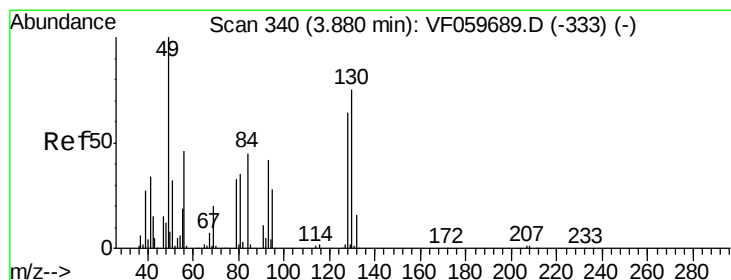
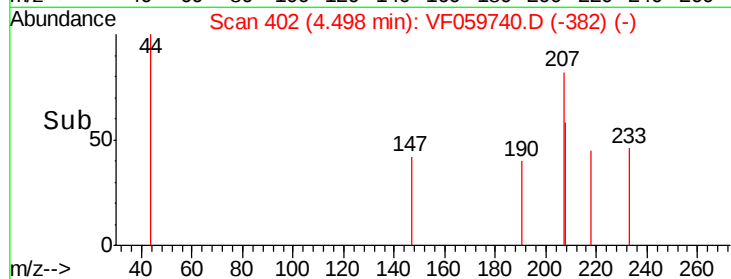
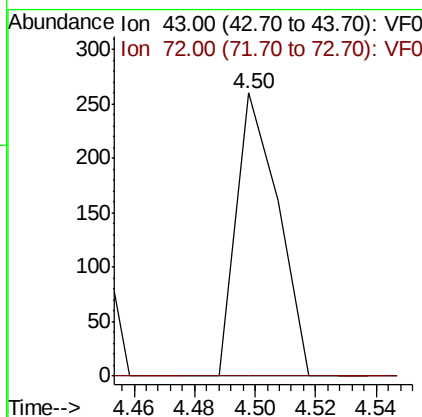
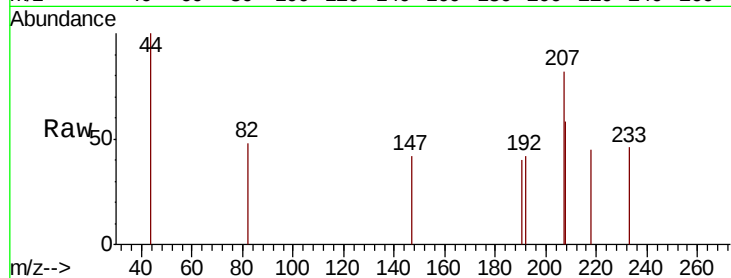




#25
2-Butanone
Concen: 6.439 ug/l
RT: 4.50 min Scan# 402
Delta R.T. -0.00 min
Lab File: VF059740.D
Acq: 1 Aug 2018 7:21

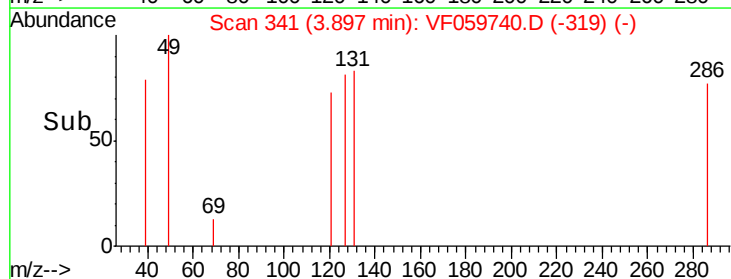
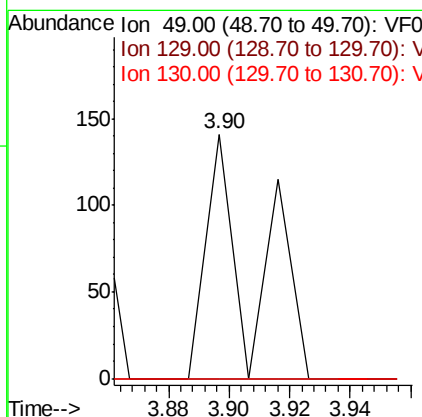
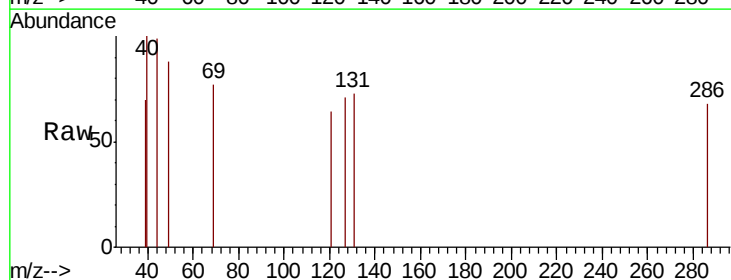
Instrument :
MSVOA_F
ClientSampled :

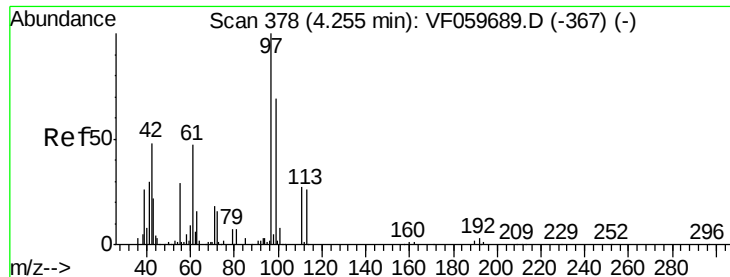
Tot Ion: 43 Resp: 250
Ion Ratio Lower Upper
43 100
72 0.0 7.7 11.5#



#28
Bromochloromethane
Concen: Below Cal
RT: 3.90 min Scan# 341
Delta R.T. 0.02 min
Lab File: VF059740.D
Acq: 1 Aug 2018 7:21

Tgt Ion: 49 Resp: 151
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.8
130 83.0 59.6 89.4





#29

Tetrahydrofuran

Concen: 6.902 ug/l

RT: 4.41 min Scan# 393

Delta R.T. 0.15 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

ClientSampled :

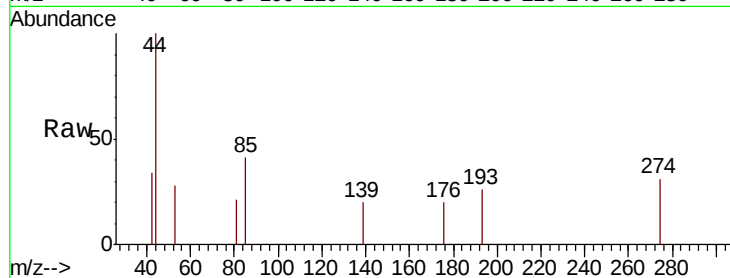
Tot Ion: 42 Resp: 103

Ion Ratio Lower Upper

42 100

72 0.0 27.0 40.6#

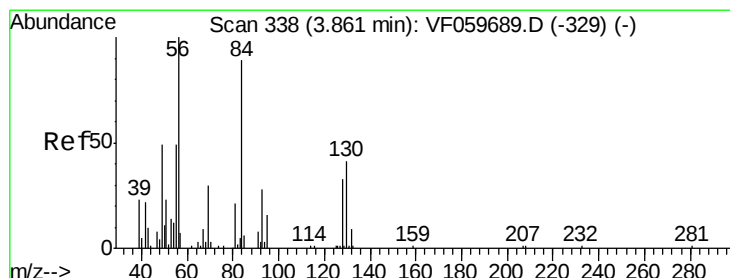
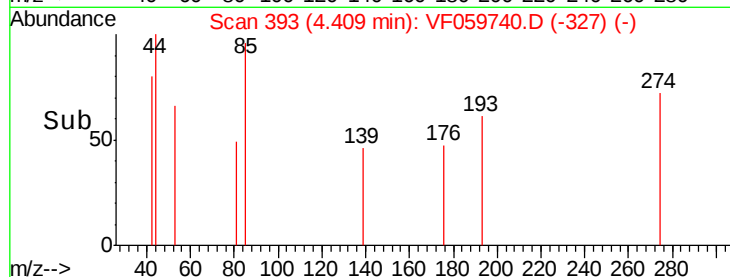
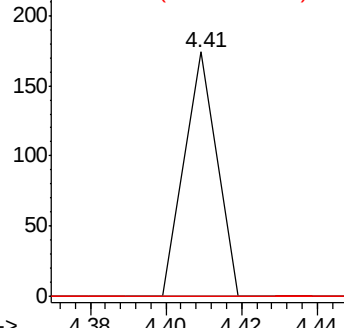
71 0.0 29.7 44.5#



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: 3.89 min Scan# 340

Delta R.T. 0.03 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

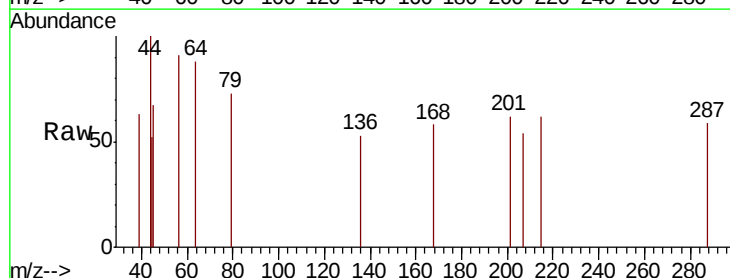
Tgt Ion: 56 Resp: 104

Ion Ratio Lower Upper

56 100

69 0.0 23.7 35.5#

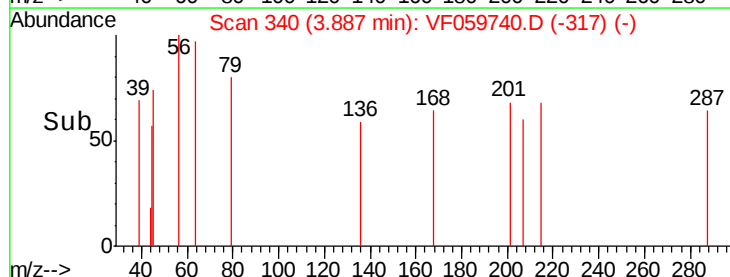
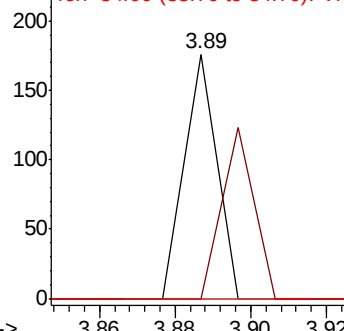
84 0.0 71.1 106.7#

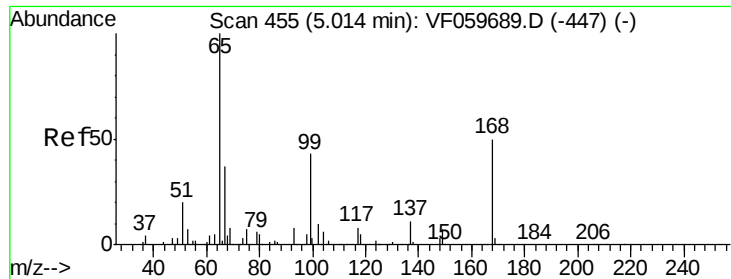


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0

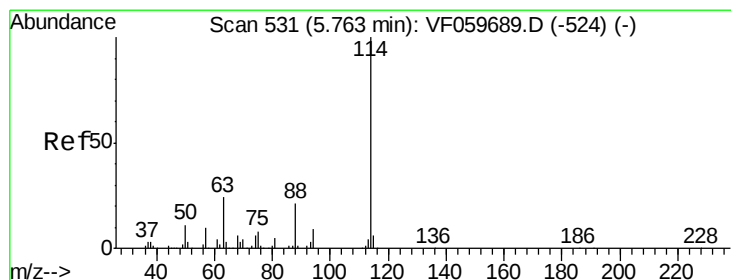
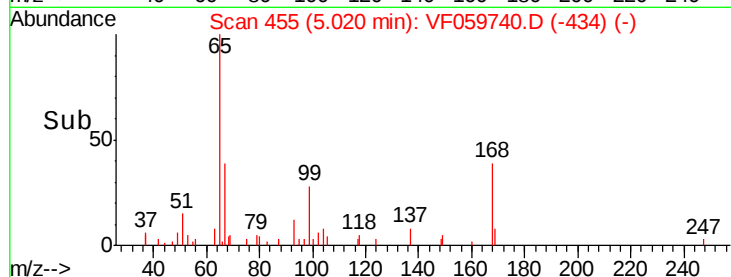
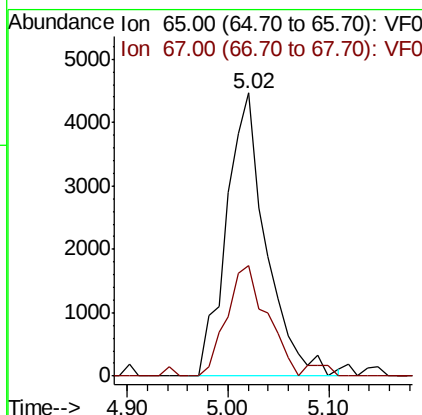
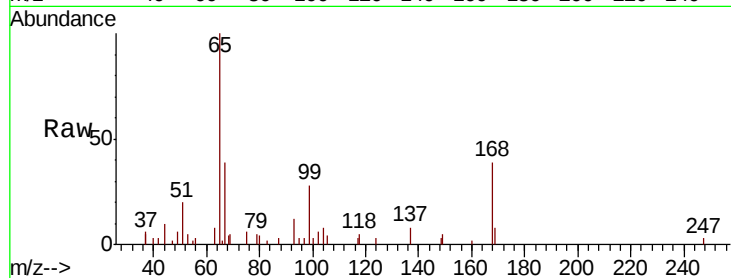




#33
 1,2-Dichloroethane-d4
 Concen: 63.046 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. 0.01 min
 Lab File: VF059740.D
 Acq: 1 Aug 2018 7:21

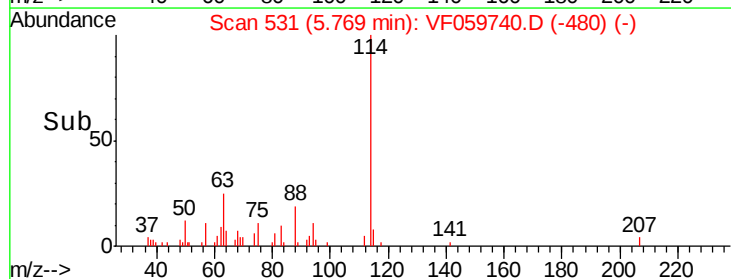
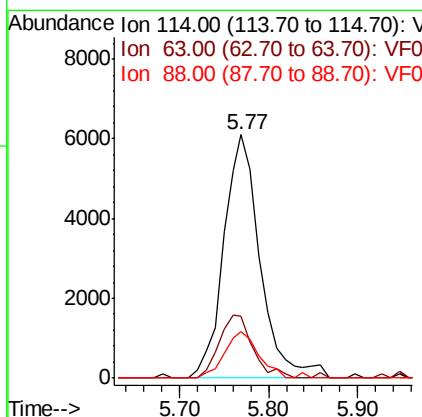
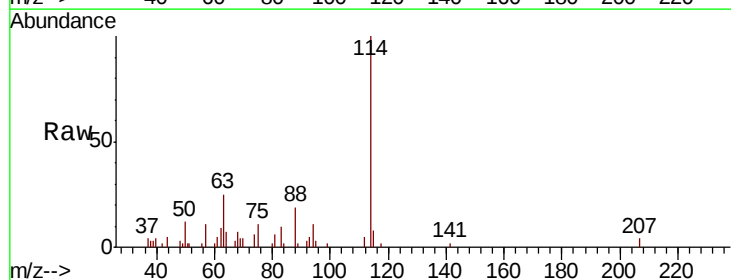
Instrument :
 MSVOA_F
 ClientSampleId :

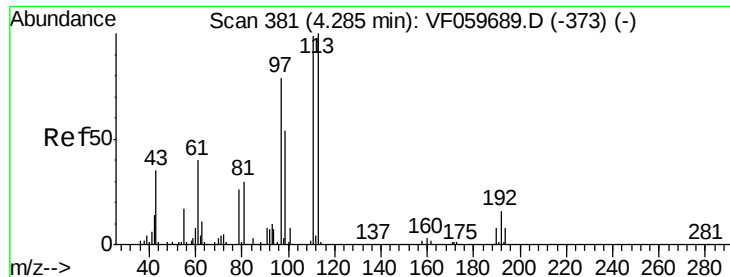
Tot Ion: 65 Resp: 12194
 Ion Ratio Lower Upper
 65 100
 67 39.0 0.0 84.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VF059740.D
 Acq: 1 Aug 2018 7:21

Tgt Ion:114 Resp: 17436
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 47.4
 88 18.9 0.0 41.2





#35

Dibromofluoromethane

Concen: 74.026 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

ClientSampleId :

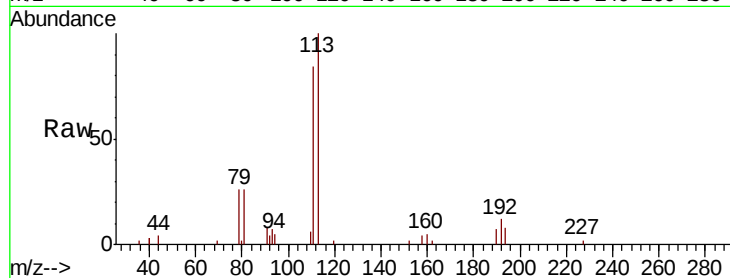
Tot Ion:113 Resp: 13406

Ion Ratio Lower Upper

113 100

111 84.5 79.0 118.4

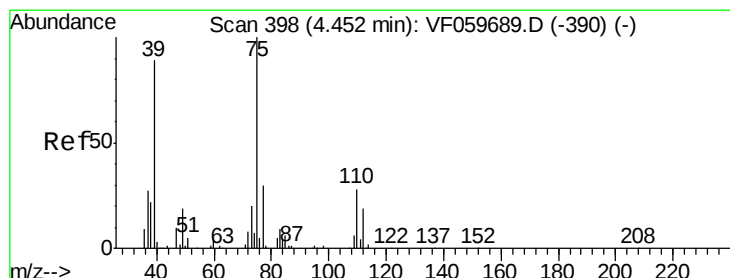
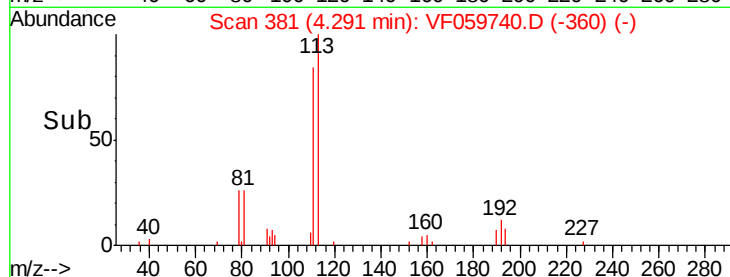
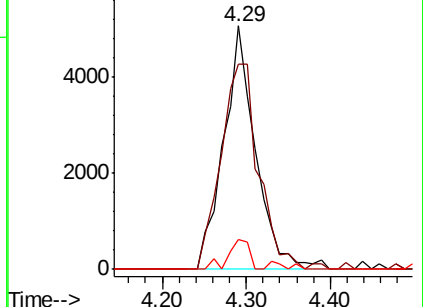
192 12.2 13.2 19.8#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: Below Cal

RT: 4.51 min Scan# 403

Delta R.T. 0.06 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

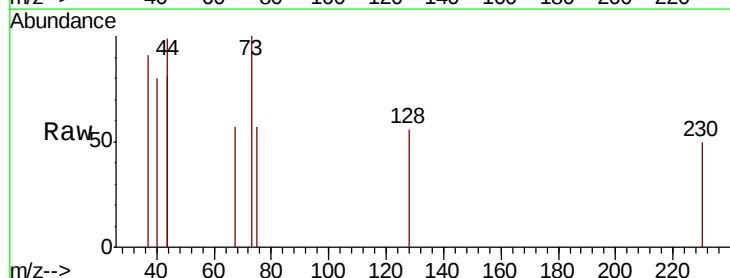
Tgt Ion: 75 Resp: 134

Ion Ratio Lower Upper

75 100

110 0.0 14.0 41.9#

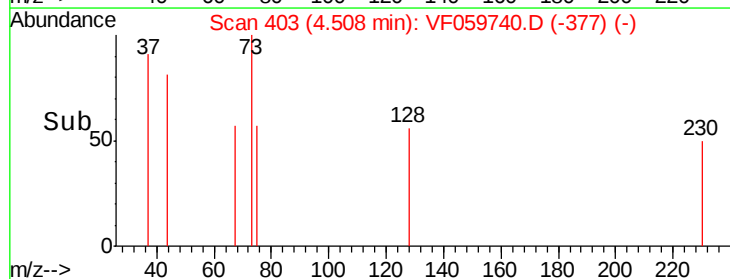
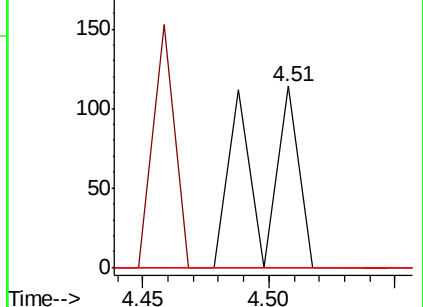
77 0.0 24.2 36.2#

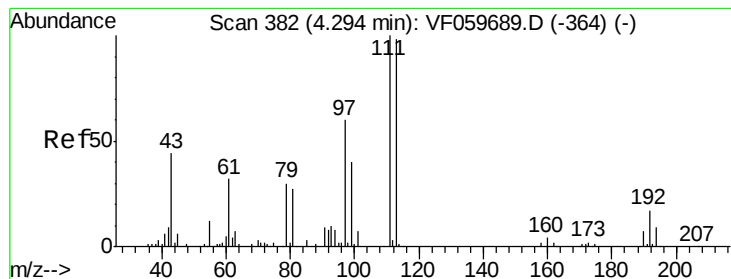


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

ClientSampled :

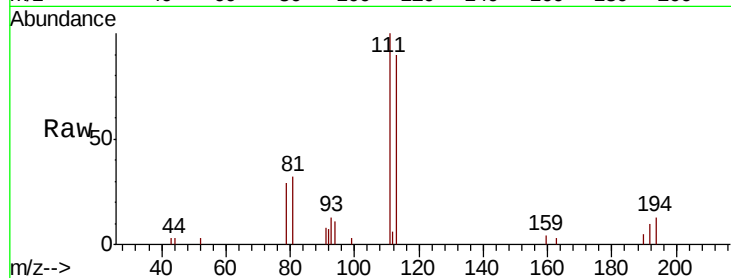
Tot Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

61 0.0 58.2 87.2#

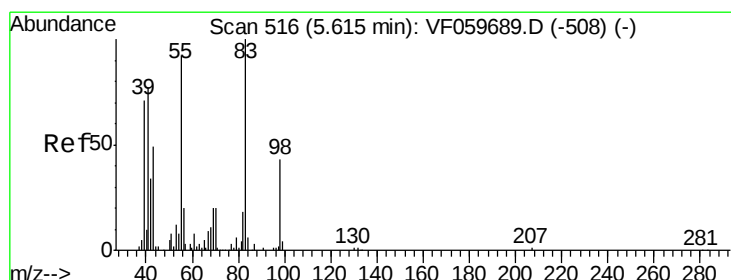
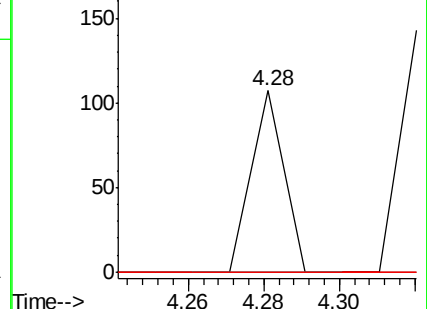
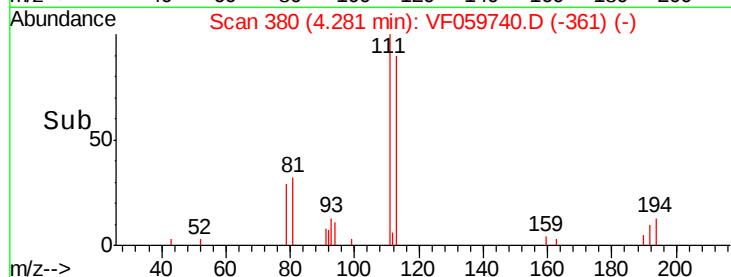
70 0.0 6.0 9.0#



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: 5.65 min Scan# 519

Delta R.T. 0.04 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

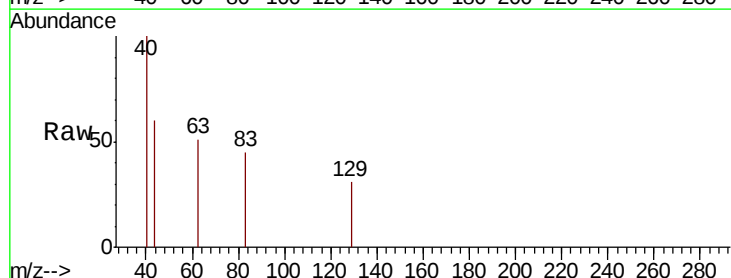
Tgt Ion: 83 Resp: 89

Ion Ratio Lower Upper

83 100

55 0.0 73.4 110.2#

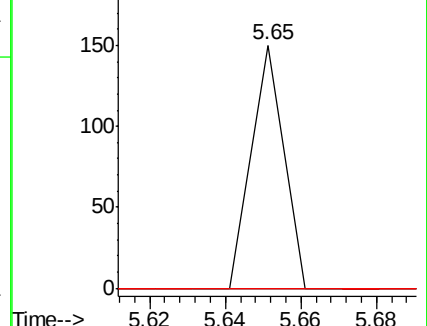
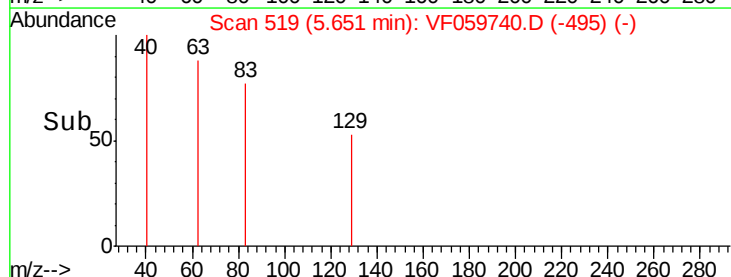
98 0.0 34.2 51.4#

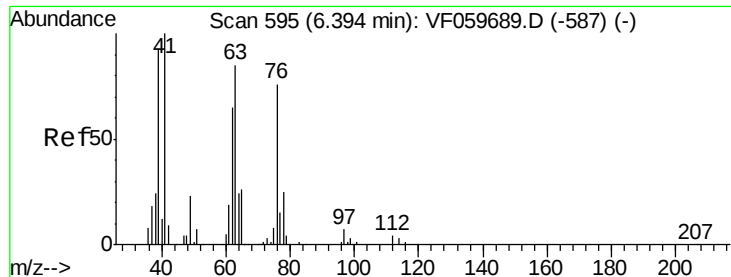


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#45

1,2-Dichloropropane

Concen: 1.097 ug/l

RT: 6.38 min Scan# 593

Delta R.T. -0.01 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

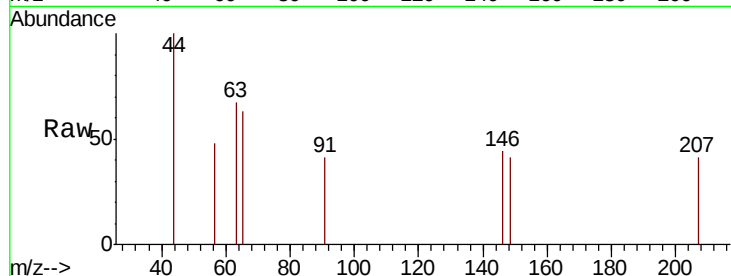
ClientSampled :

Tot Ion: 63 Resp: 102

Ion Ratio Lower Upper

63 100

65 93.6 25.2 37.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

200

150

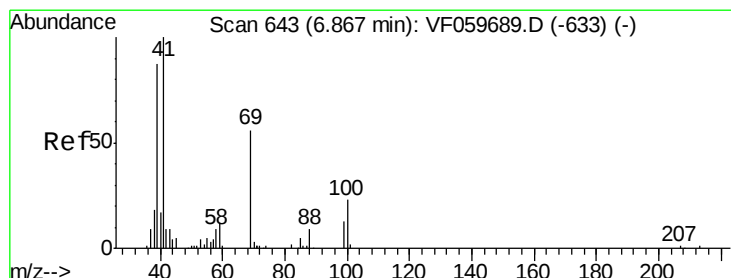
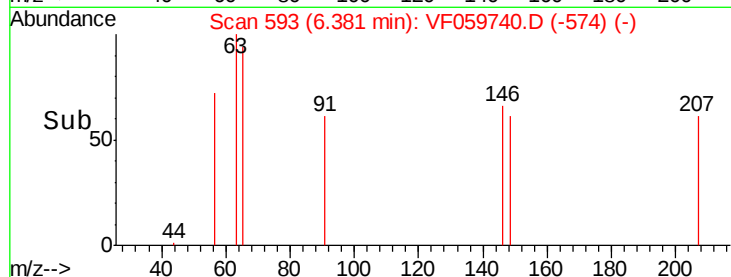
100

50

0

6.36 6.38 6.40

Time-->



#48

Methyl methacrylate

Concen: 1.007 ug/l

RT: 6.85 min Scan# 641

Delta R.T. -0.01 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

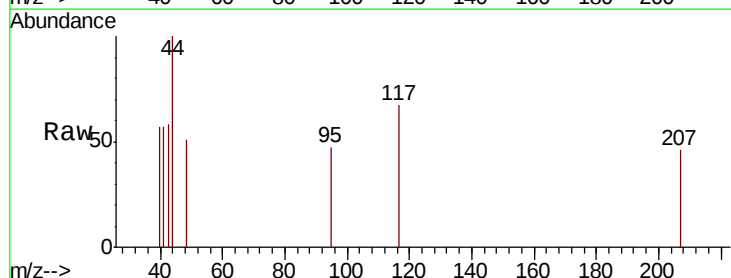
Tgt Ion: 41 Resp: 79

Ion Ratio Lower Upper

41 100

69 0.0 44.4 66.6#

39 100.7 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

150

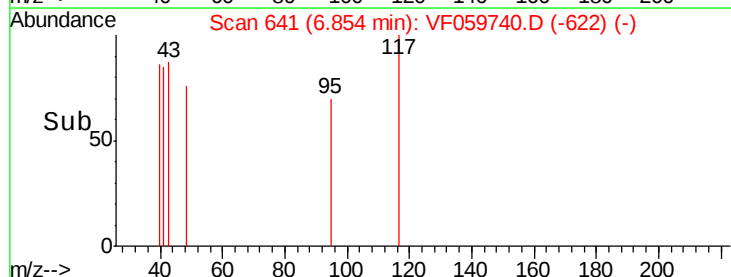
100

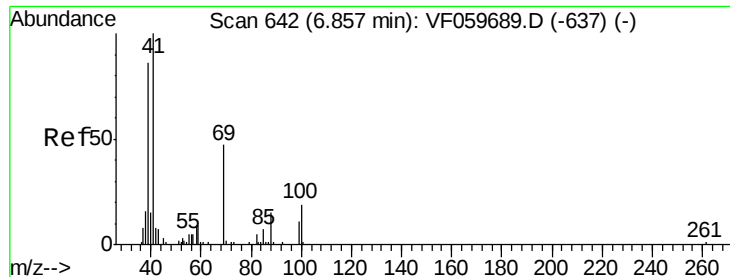
50

0

6.82 6.84 6.86 6.88

Time-->





#49

1,4-Dioxane

Concen: 71.964 ug/l

RT: 6.67 min Scan# 622

Delta R.T. -0.19 min

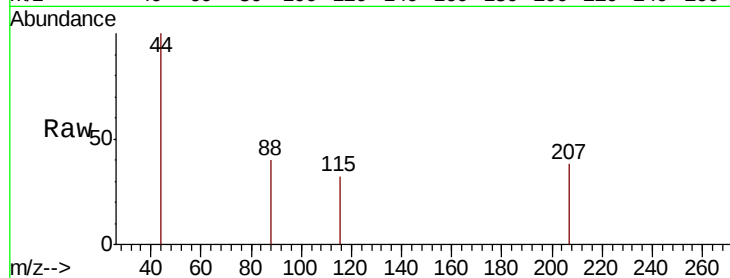
Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 79

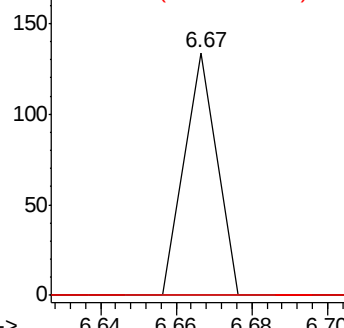
Ion	Ratio	Lower	Upper
88	100		
43	0.0	45.2	67.8#
58	0.0	49.0	73.6#



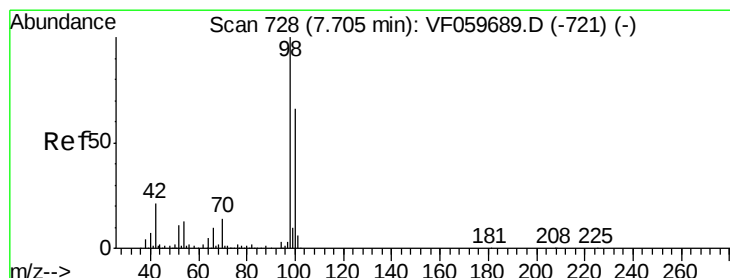
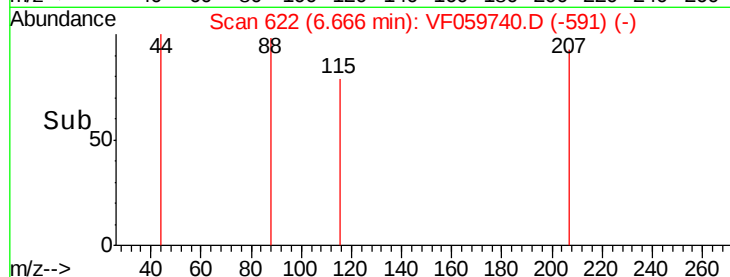
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 22.881 ug/l

RT: 7.71 min Scan# 728

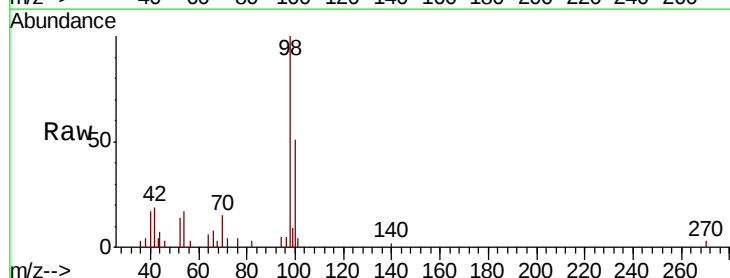
Delta R.T. 0.01 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

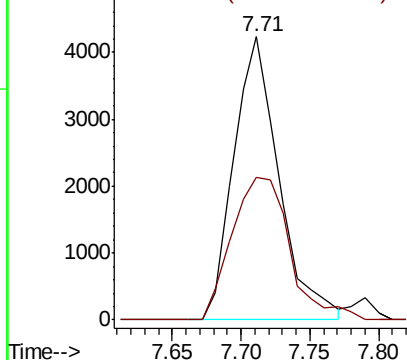
Tgt Ion: 98 Resp: 9663

Ion	Ratio	Lower	Upper
98	100		
100	50.5	52.8	79.2#

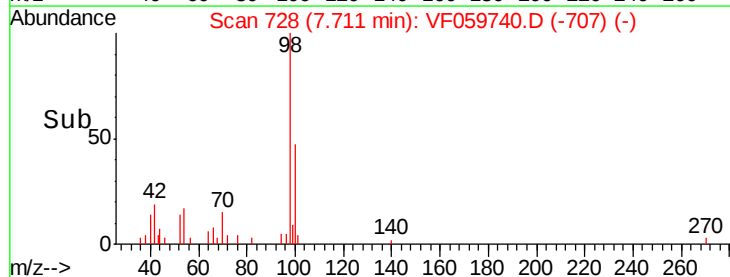


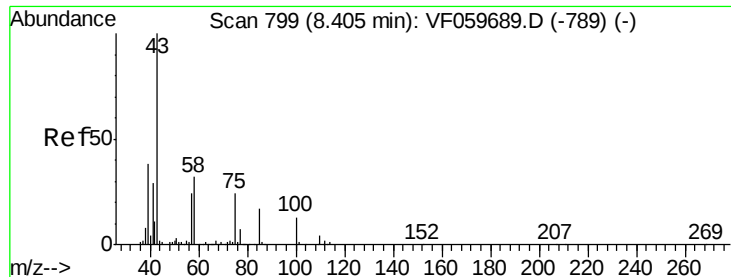
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 3.858 ug/l

RT: 8.25 min Scan# 783

Delta R.T. -0.15 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

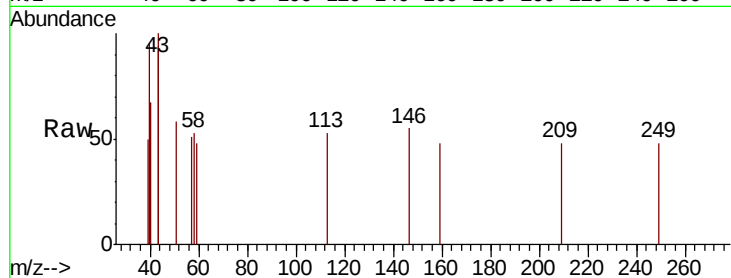
ClientSampled :

Tot Ion: 43 Resp: 306

Ion Ratio Lower Upper

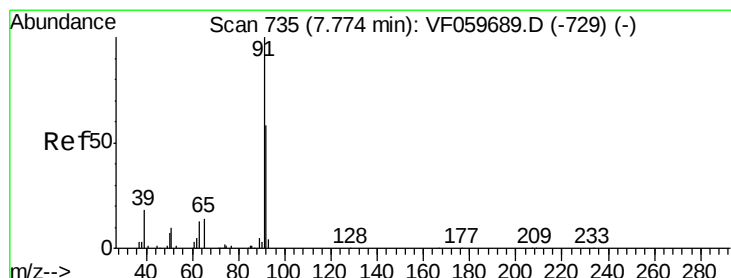
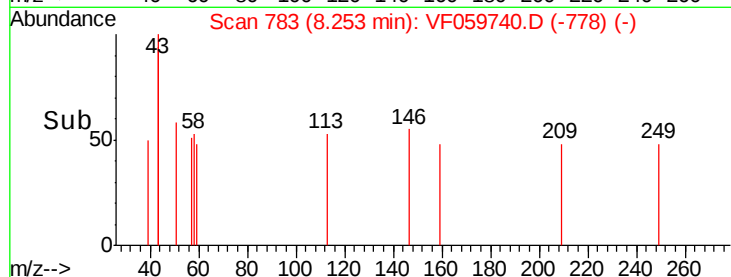
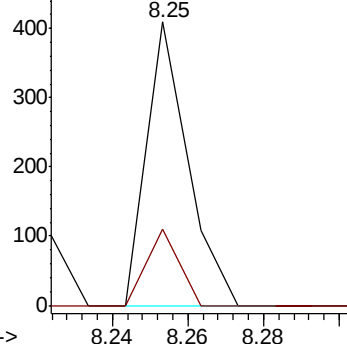
43 100

58 27.1 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: Below Cal

RT: 7.80 min Scan# 737

Delta R.T. 0.03 min

Lab File: VF059740.D

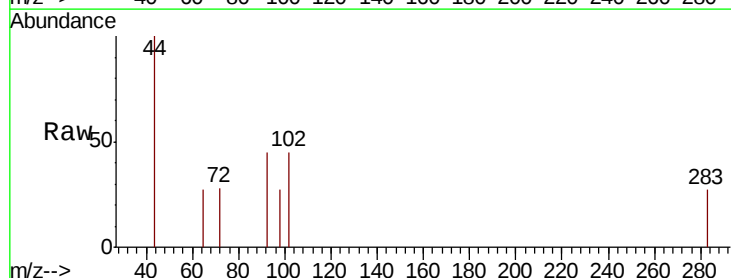
Acq: 1 Aug 2018 7:21

Tgt Ion: 92 Resp: 166

Ion Ratio Lower Upper

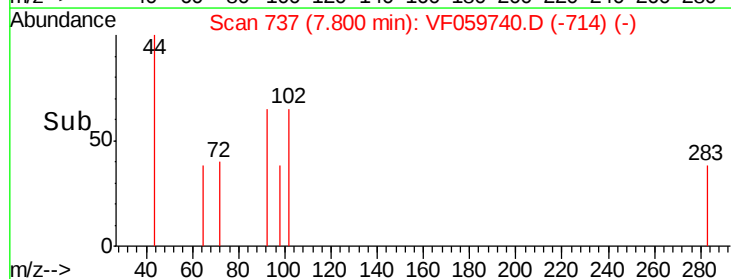
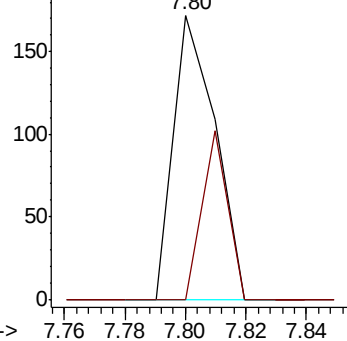
92 100

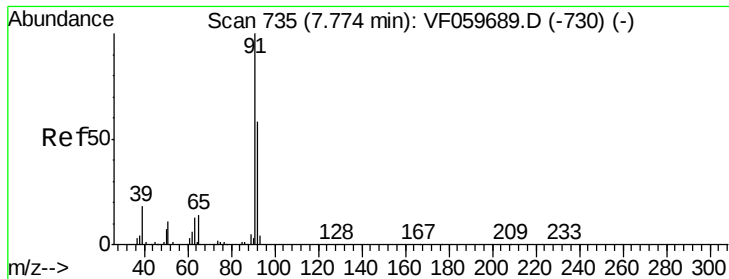
91 0.0 139.0 208.4#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

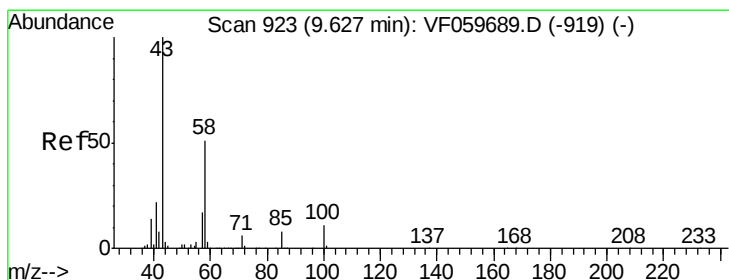
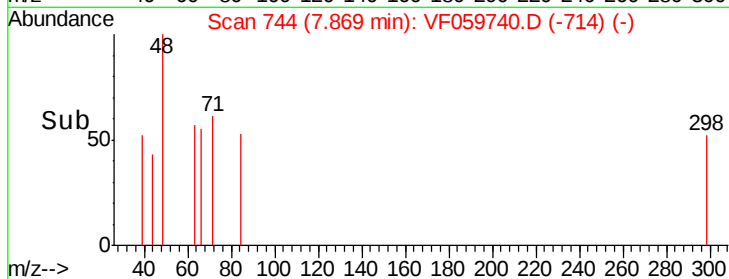
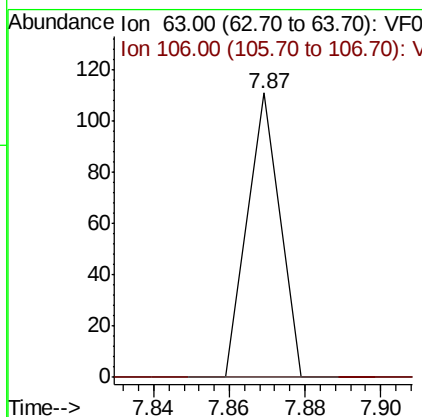
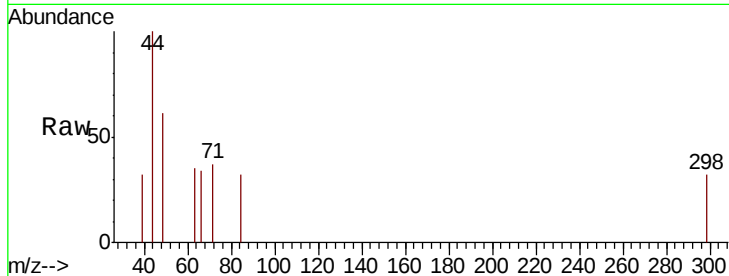




#58
 2-Chloroethyl Vinyl ether
 Concen: 5.748 ug/l
 RT: 7.87 min Scan# 744
 Delta R.T. 0.09 min
 Lab File: VF059740.D
 Acq: 1 Aug 2018 7:21

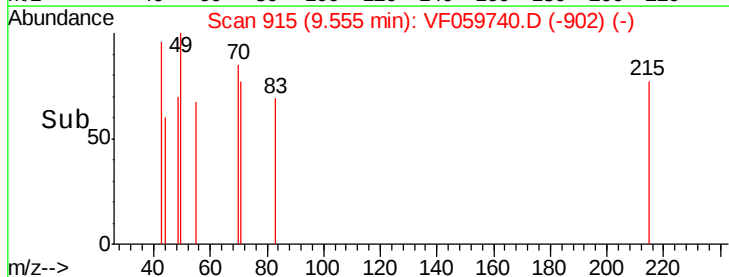
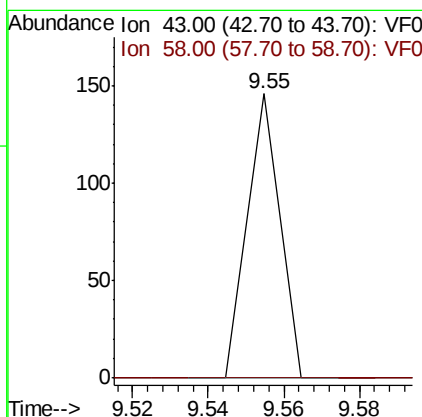
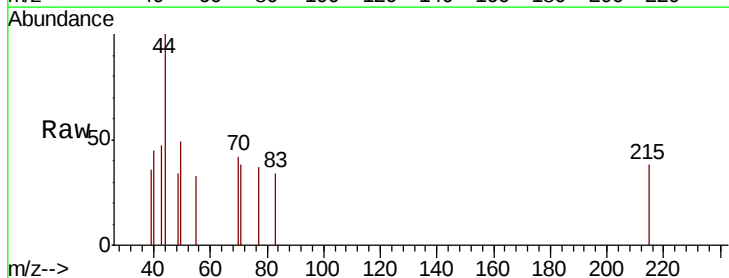
Instrument :
 MSVOA_F
 ClientSampled :

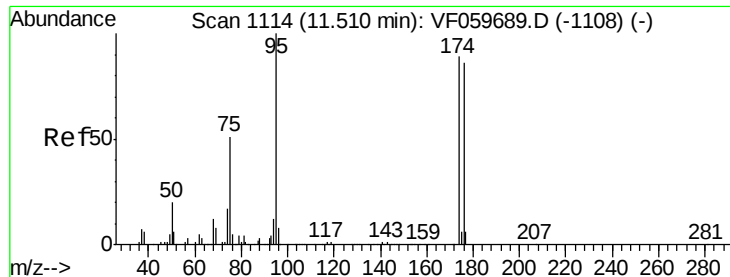
Tot Ion: 63 Resp: 66
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 1.353 ug/l
 RT: 9.55 min Scan# 915
 Delta R.T. -0.07 min
 Lab File: VF059740.D
 Acq: 1 Aug 2018 7:21

Tgt Ion: 43 Resp: 86
 Ion Ratio Lower Upper
 43 100
 58 0.0 23.3 69.8#





#62

4-Bromofluorobenzene

Concen: 2.451 ug/l

RT: 11.53 min Scan# 1115

Delta R.T. 0.02 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

ClientSampled :

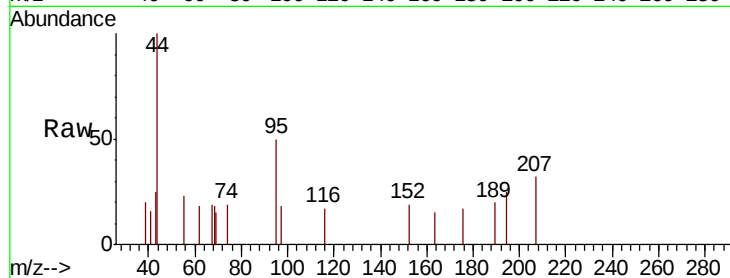
Tot Ion: 95 Resp: 573

Ion Ratio Lower Upper

95 100

174 0.0 0.0 178.4

176 34.9 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

11.53

400

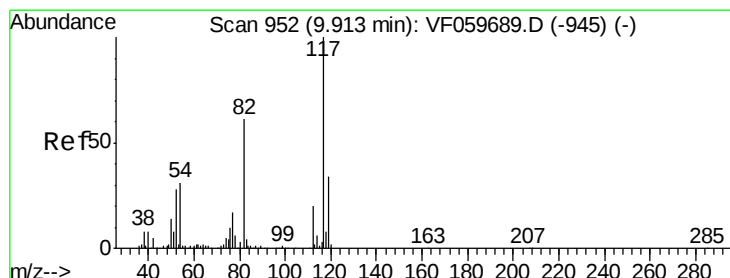
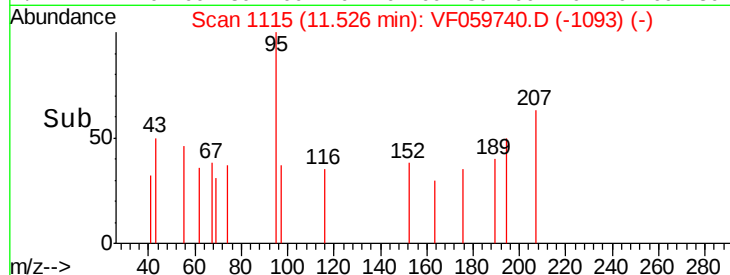
300

200

100

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

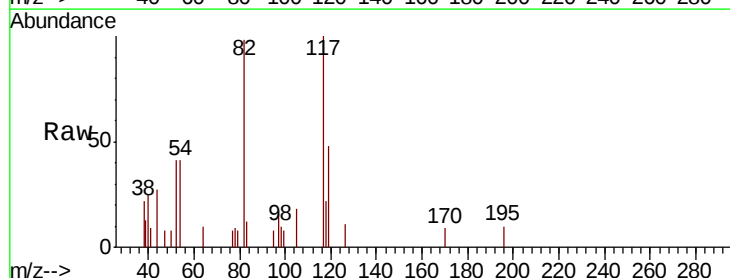
Tgt Ion: 117 Resp: 2978

Ion Ratio Lower Upper

117 100

82 98.2 49.0 73.4#

119 48.1 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

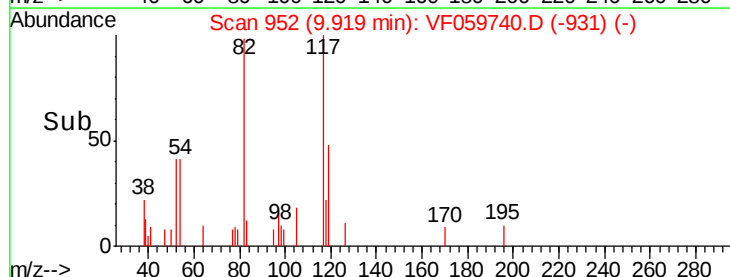
1500

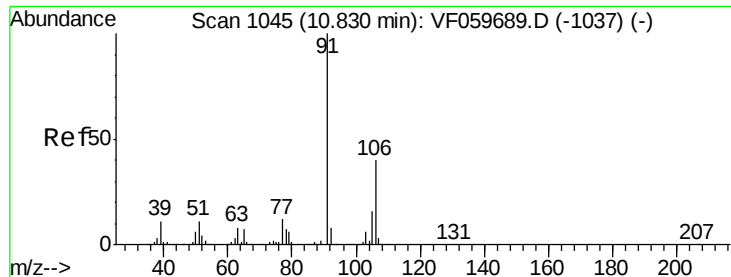
1000

500

0

Time-->

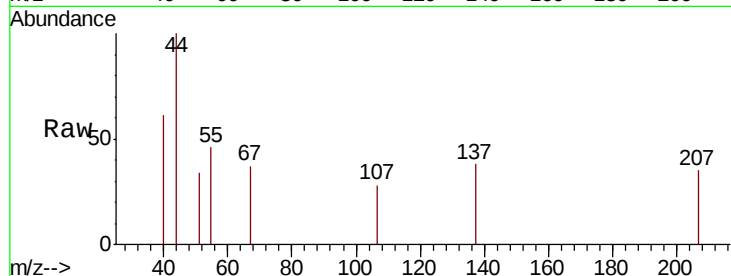




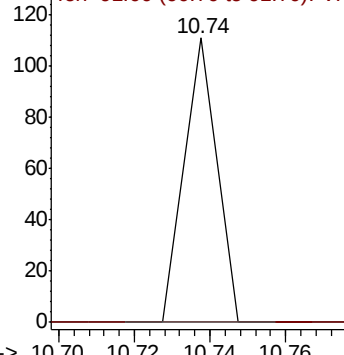
#69
o-Xylene
Concen: 1.738 ug/l
RT: 10.74 min Scan# 1035
Delta R.T. -0.09 min
Lab File: VF059740.D
Acq: 1 Aug 2018 7:21

Instrument :
MSVOA_F
ClientSampled :

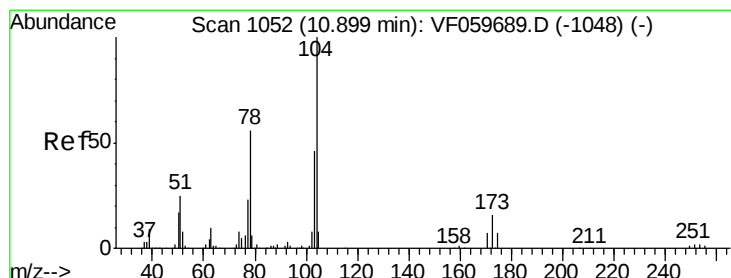
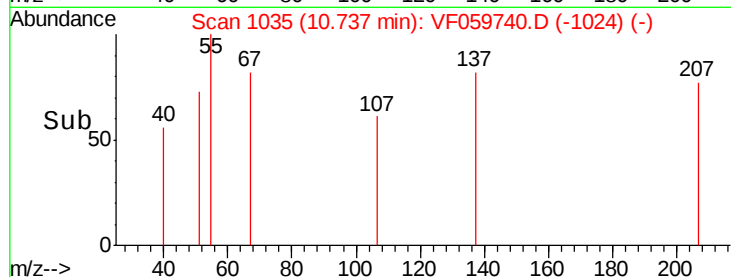
Tot Ion:106 Resp: 66
Ion Ratio Lower Upper
106 100
91 0.0 124.6 373.7#



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

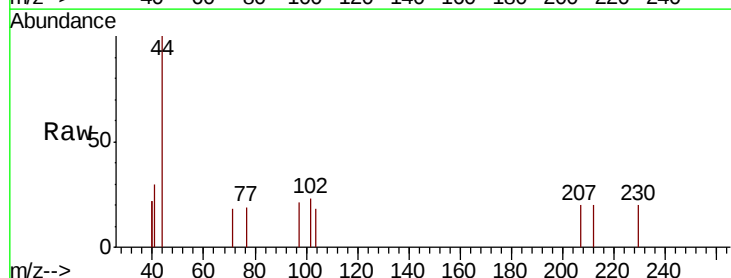


Time--> 10.70 10.72 10.74 10.76

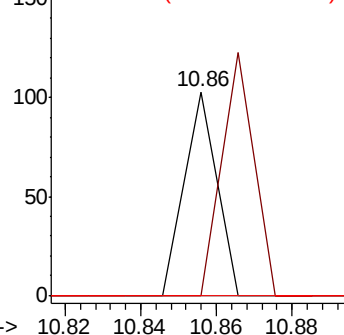


#70
Styrene
Concen: 1.060 ug/l
RT: 10.86 min Scan# 1047
Delta R.T. -0.04 min
Lab File: VF059740.D
Acq: 1 Aug 2018 7:21

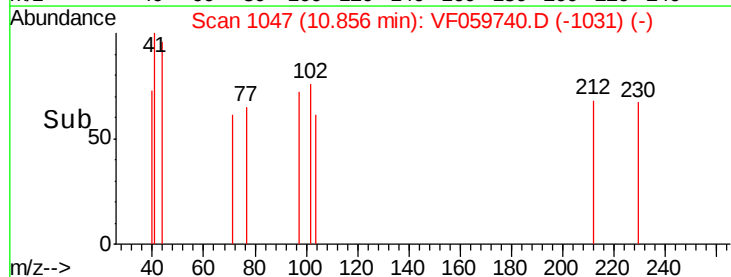
Tgt Ion:104 Resp: 61
Ion Ratio Lower Upper
104 100
78 0.0 45.3 67.9#
103 0.0 36.6 54.8#

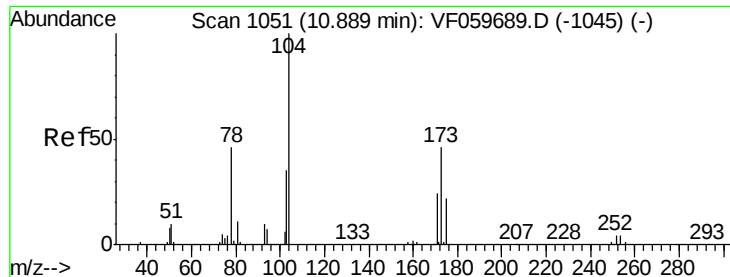


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V



Time--> 10.82 10.84 10.86 10.88





#71

Bromoform

Concen: 3.476 ug/l

RT: 10.95 min Scan# 1057

Delta R.T. 0.07 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

ClientSampleId :

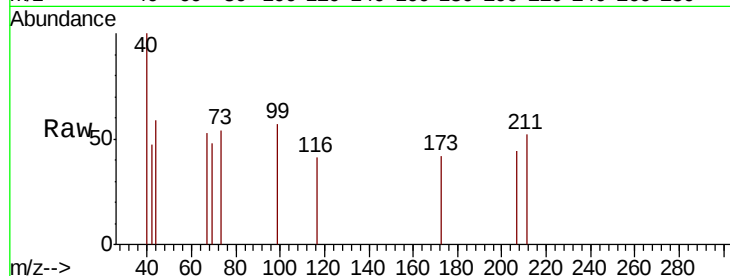
Tot Ion:173 Resp: 63

Ion Ratio Lower Upper

173 100

175 0.0 23.4 70.0#

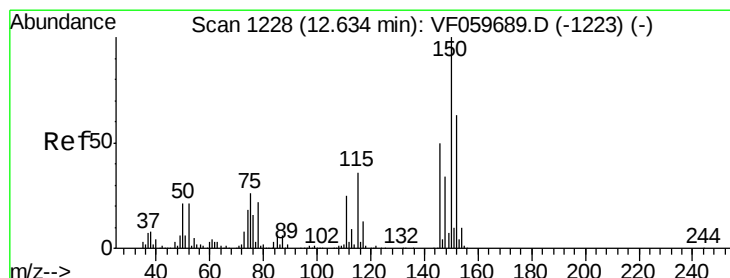
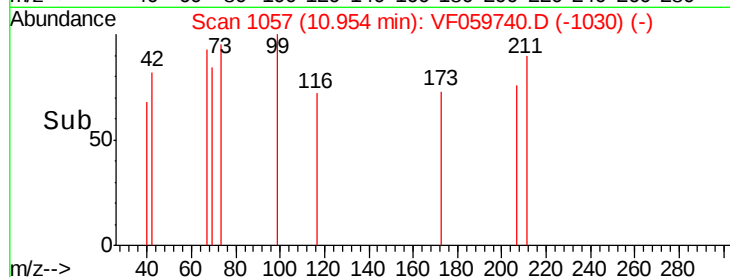
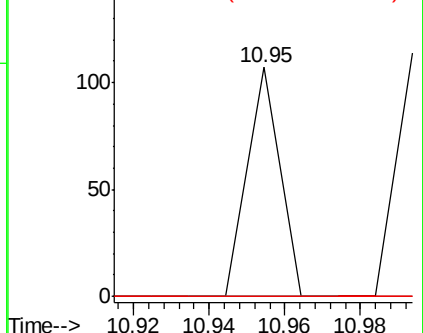
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

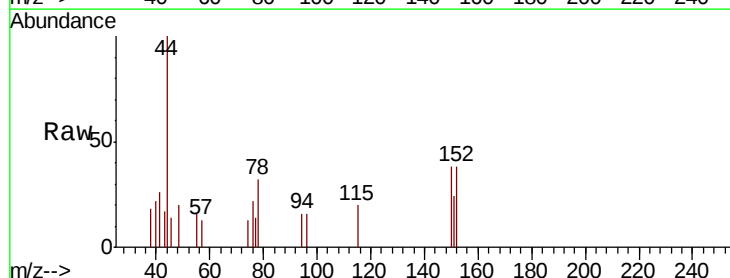
Tgt Ion:152 Resp: 319

Ion Ratio Lower Upper

152 100

115 53.5 28.2 84.6

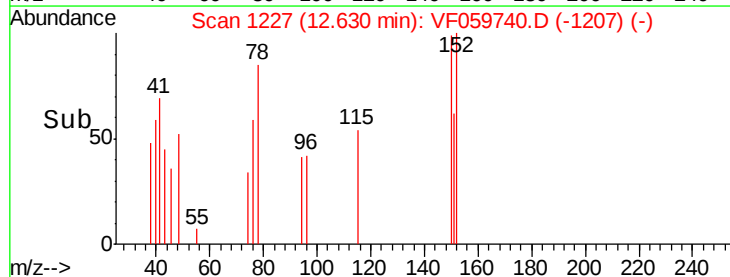
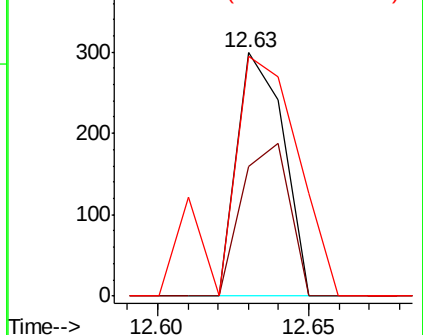
150 98.7 0.0 316.2

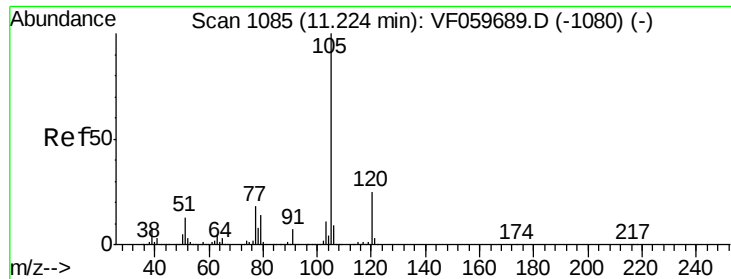


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 2.867 ug/l

RT: 11.37 min Scan# 1099

Delta R.T. 0.14 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

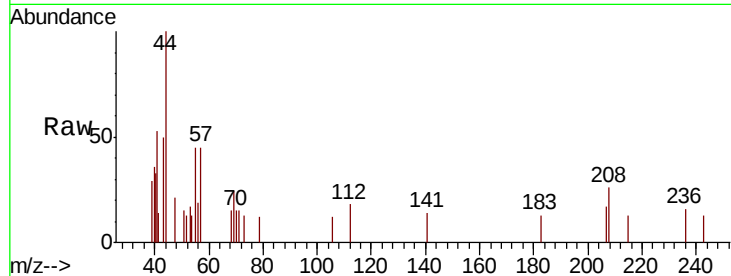
ClientSampleId :

Tot Ion: 105 Resp: 60

Ion Ratio Lower Upper

105 100

120 0.0 12.4 37.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.37

100

80

60

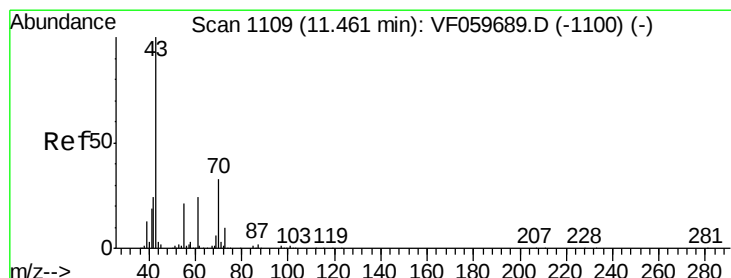
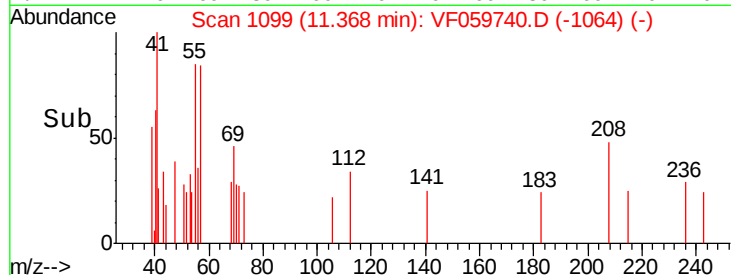
40

20

0

11.34 11.36 11.38

Time-->



#74

N-ethyl acetate

Concen: 12.120 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Tgt Ion: 43 Resp: 64

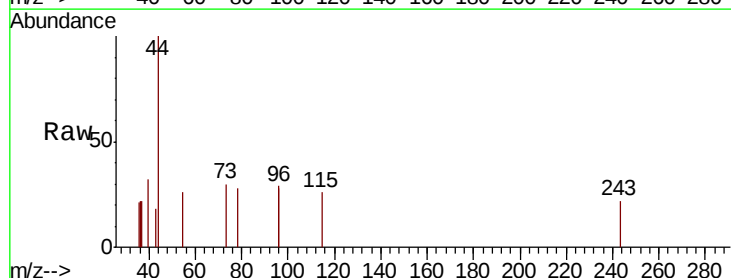
Ion Ratio Lower Upper

43 100

70 0.0 26.3 39.5#

55 0.0 16.6 25.0#

61 0.0 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

200

150

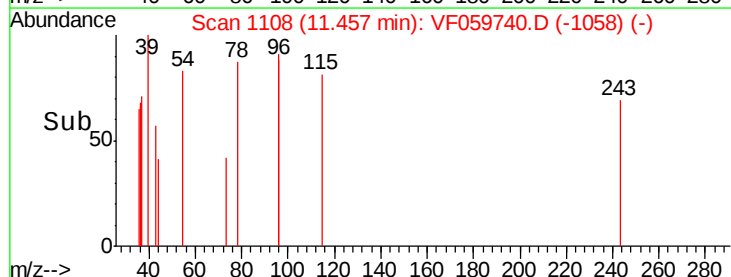
100

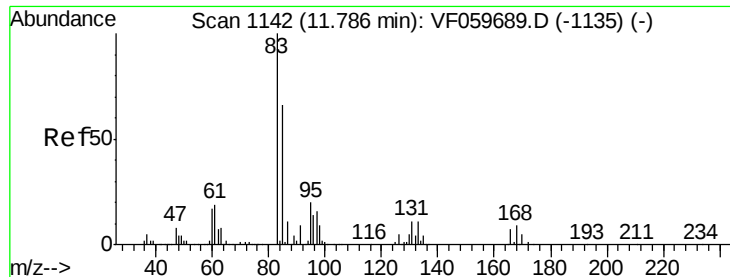
50

0

11.44 11.46 11.48

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 51.776 ug/l

RT: 11.74 min Scan# 1137

Delta R.T. -0.04 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

ClientSampled :

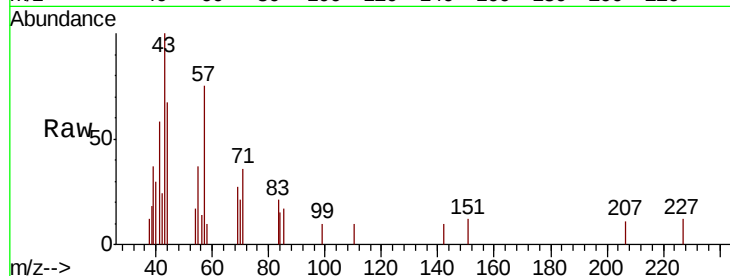
Tot Ion: 83 Resp: 204

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.3#

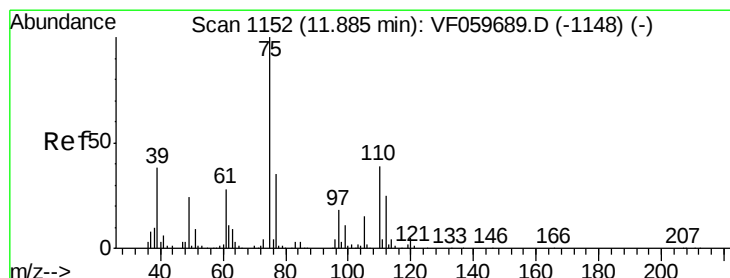
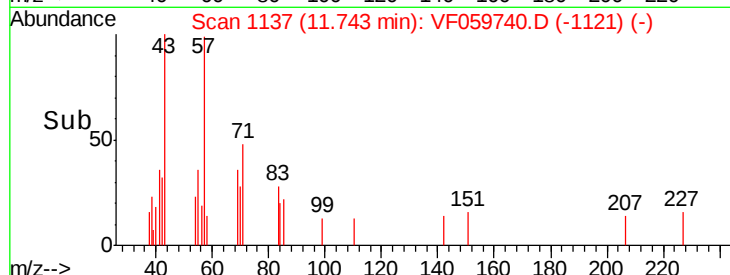
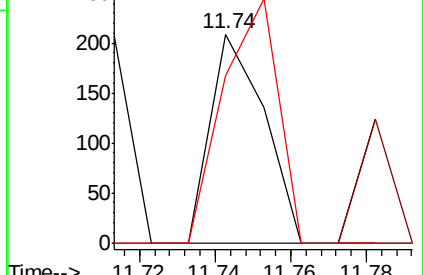
85 79.9 32.8 98.3



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: 21.490 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.06 min

Lab File: VF059740.D

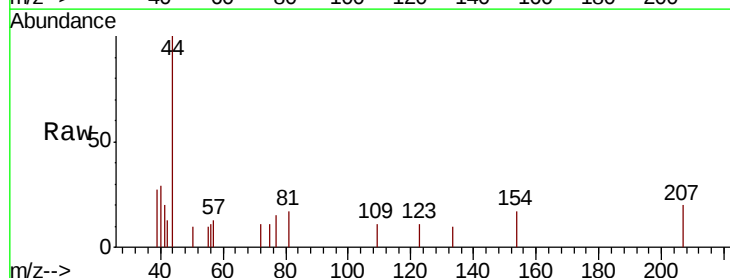
Acq: 1 Aug 2018 7:21

Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

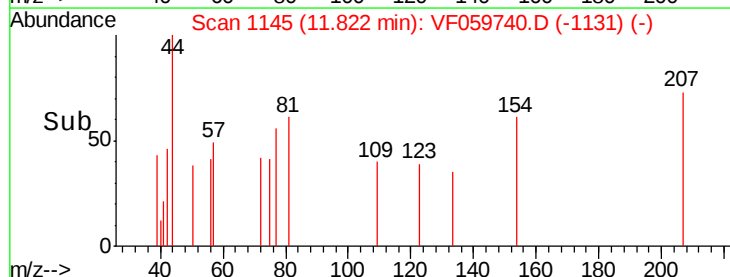
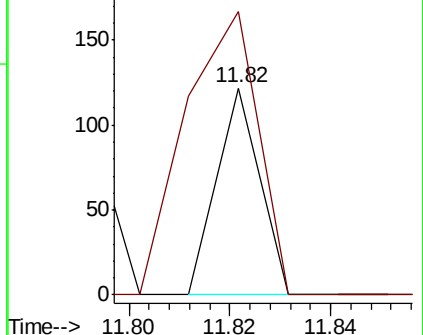
75 100

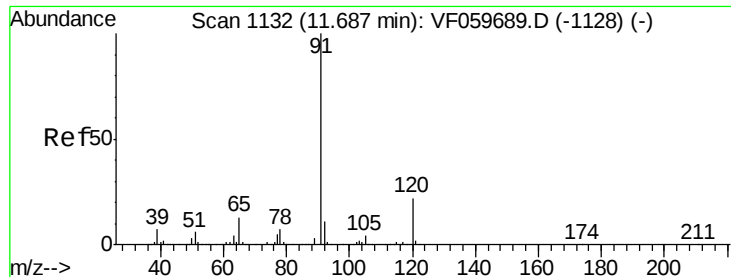
77 136.9 18.0 54.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 2.046 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

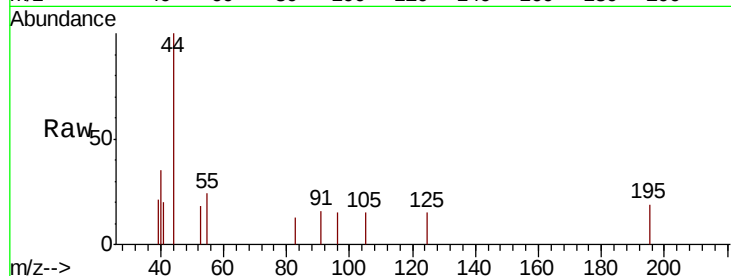
ClientSampled :

Tot Ion: 91 Resp: 147

Ion Ratio Lower Upper

91 100

120 0.0 11.0 33.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

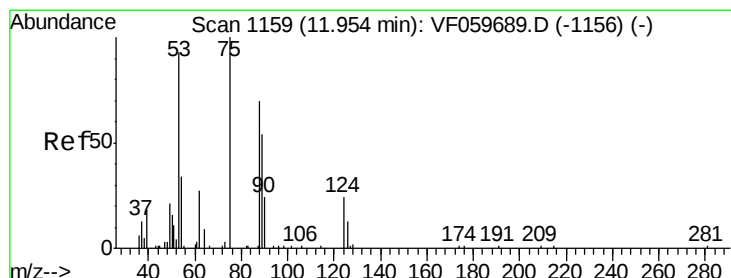
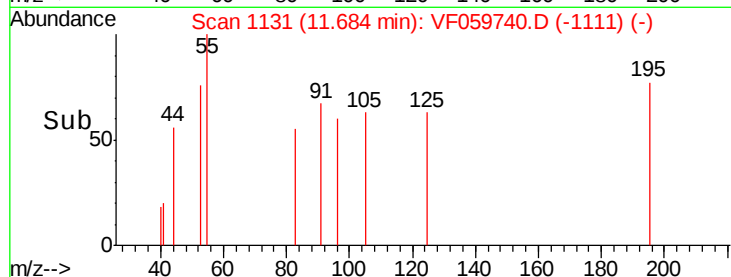
11.68

100

50

0

Time--> 11.65 11.70



#81

trans-1,4-Dichloro-2-butene

Concen: 51.891 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.13 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

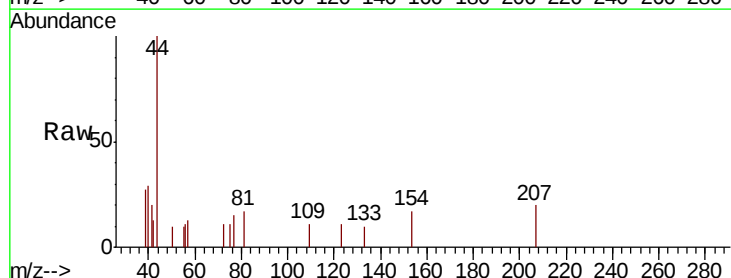
Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

53 0.0 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

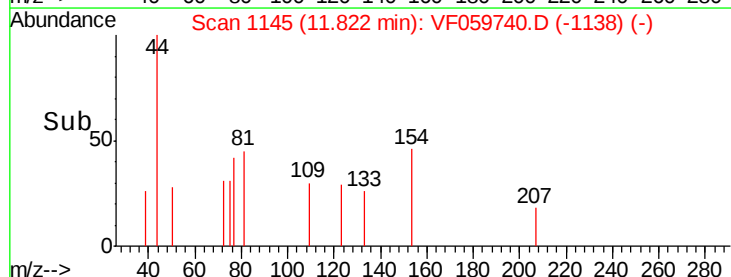
11.82

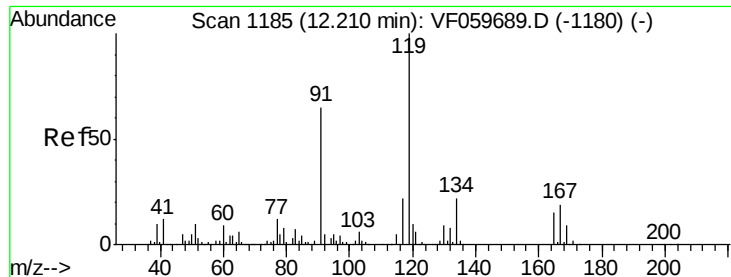
100

50

0

Time--> 11.80 11.82 11.84





#83

tert-Butylbenzene

Concen: 4.896 ug/l

RT: 12.23 min Scan# 1186

Delta R.T. 0.02 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

ClientSampleId :

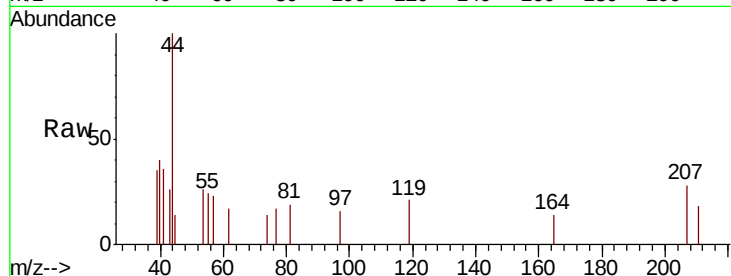
Tot Ion:119 Resp: 92

Ion Ratio Lower Upper

119 100

91 0.0 32.8 98.4#

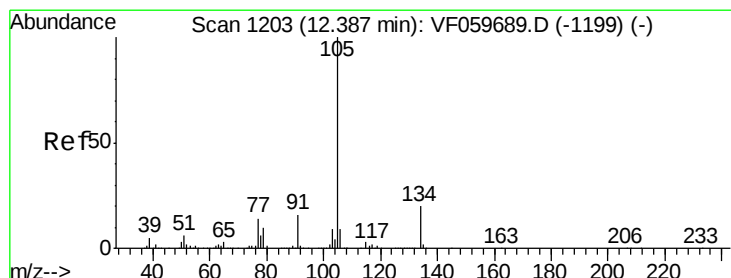
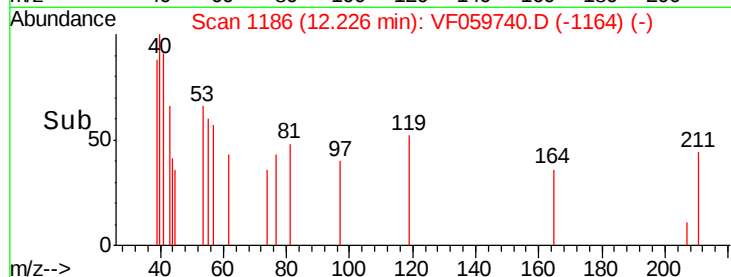
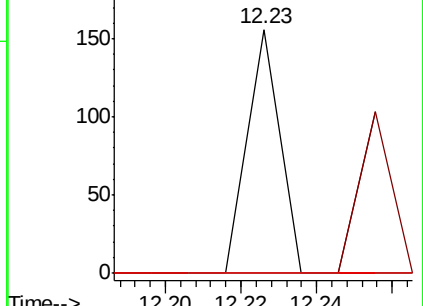
134 0.0 10.9 32.7#



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: 12.41 min Scan# 1205

Delta R.T. 0.03 min

Lab File: VF059740.D

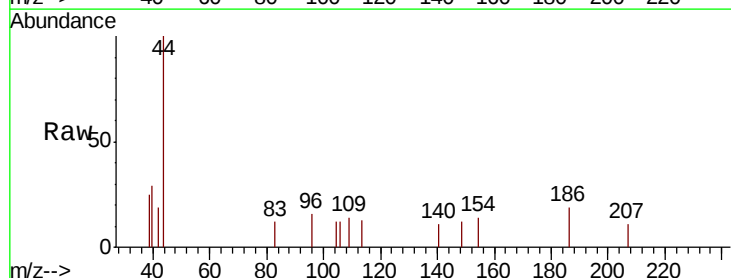
Acq: 1 Aug 2018 7:21

Tgt Ion:105 Resp: 67

Ion Ratio Lower Upper

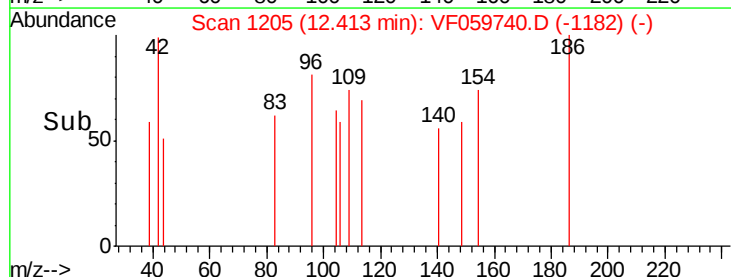
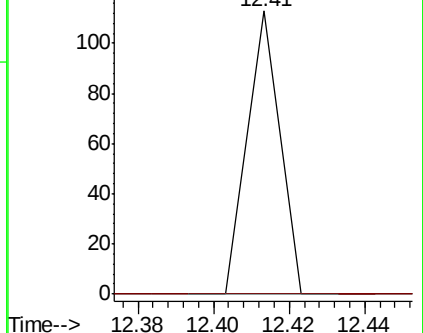
105 100

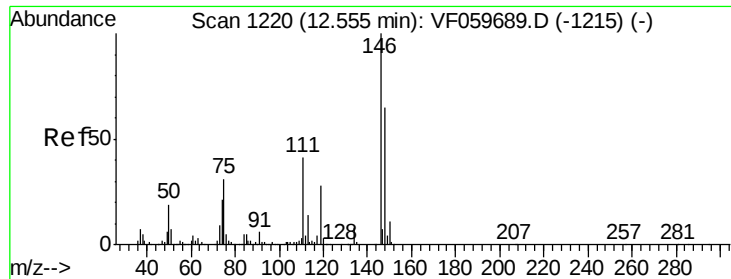
134 0.0 9.8 29.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

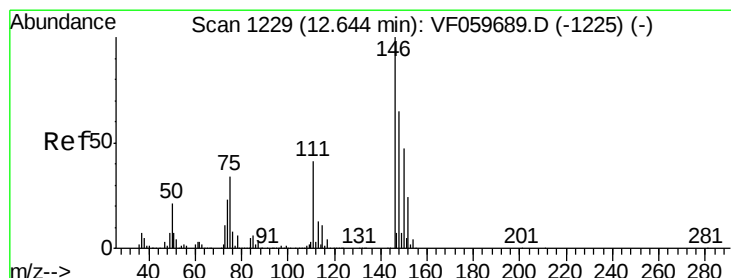
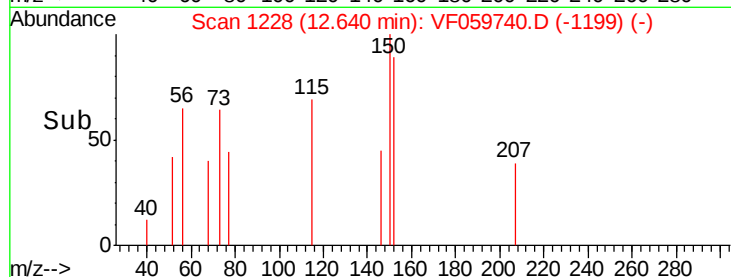
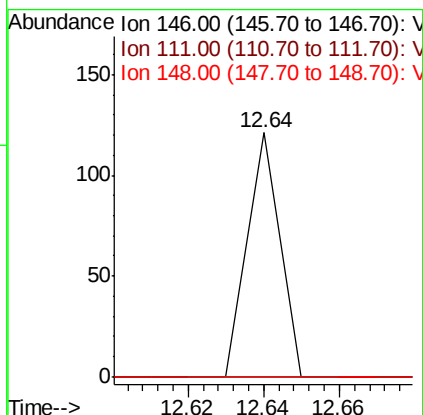
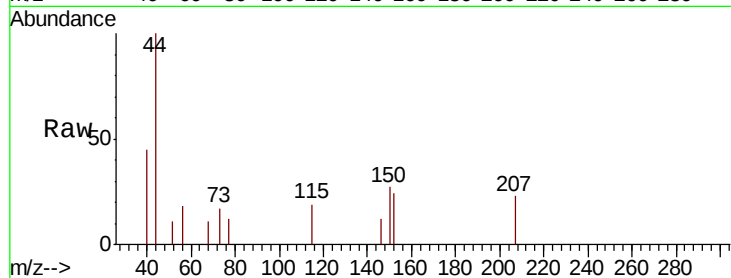




#87
 1,3-Dichlorobenzene
 Concen: 2.655 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. 0.09 min
 Lab File: VF059740.D
 Acq: 1 Aug 2018 7:21

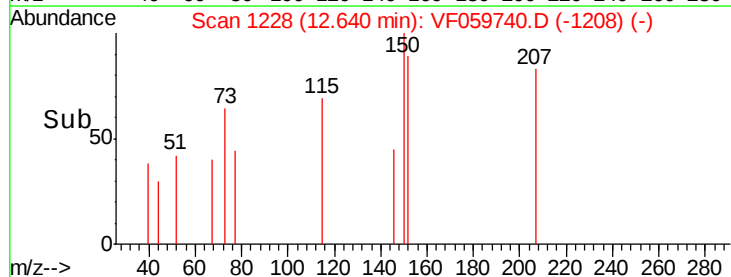
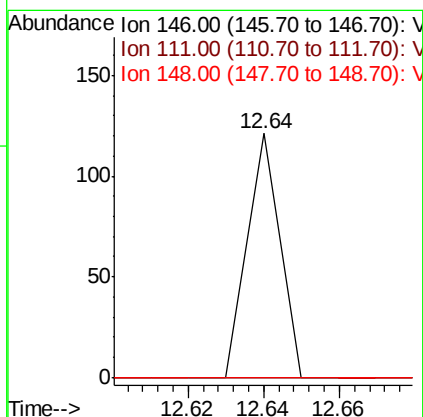
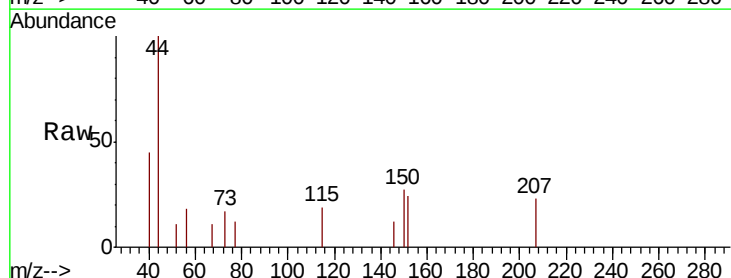
Instrument :
 MSVOA_F
 ClientSampleId :

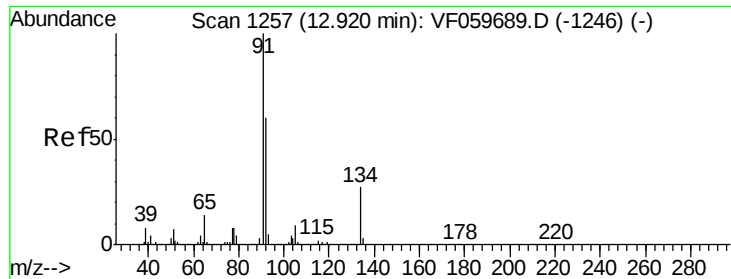
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.7	62.1#
148	0.0	32.3	96.8#



#88
 1,4-Dichlorobenzene
 Concen: 4.244 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VF059740.D
 Acq: 1 Aug 2018 7:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.8	62.2#
148	0.0	32.3	96.9#





#89

n-Butylbenzene

Concen: 4.623 ug/l

RT: 12.81 min Scan# 1245

Delta R.T. -0.11 min

Lab File: VF059740.D

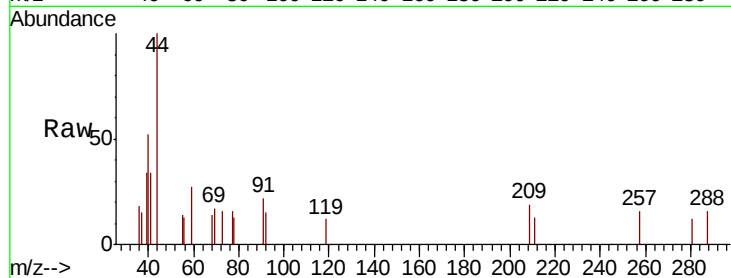
Acq: 1 Aug 2018 7:21

Instrument :

MSVOA_F

ClientSampled :

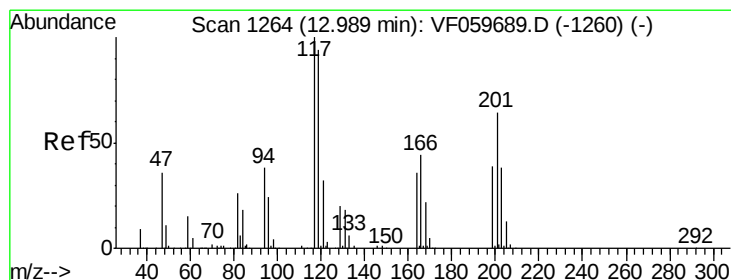
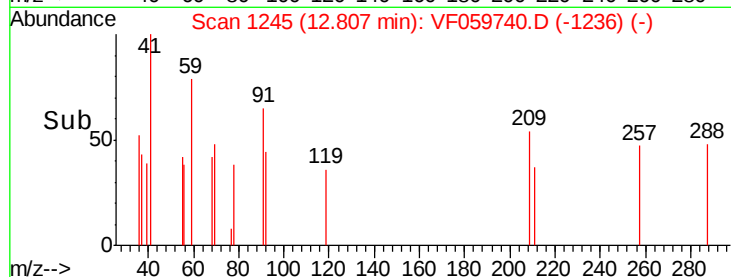
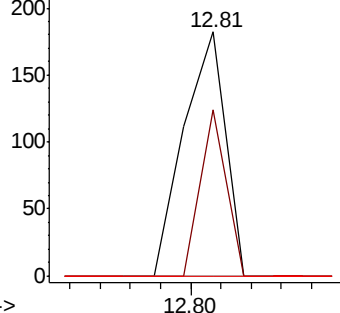
Tot Ion:	91	Resp:	174
Ion	Ratio	Lower	Upper
91	100		
92	68.1	30.1	90.3
134	0.0	13.7	41.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 11.555 ug/l

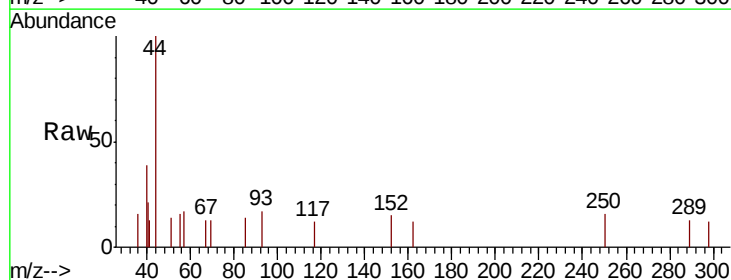
RT: 12.84 min Scan# 1248

Delta R.T. -0.15 min

Lab File: VF059740.D

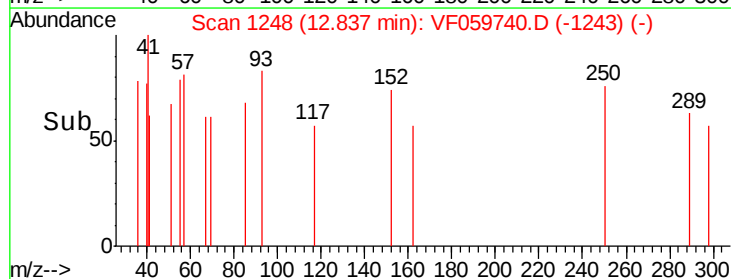
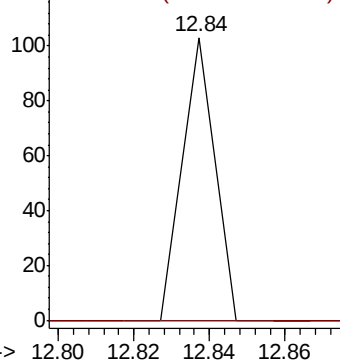
Acq: 1 Aug 2018 7:21

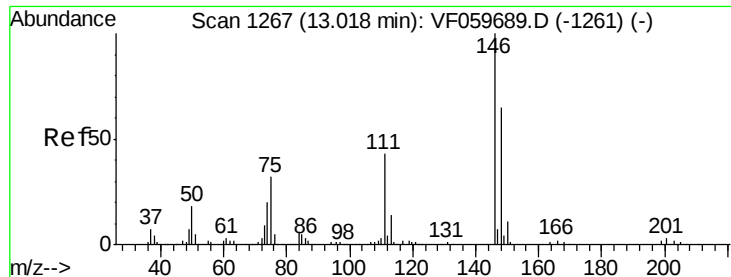
Tgt Ion:	117	Resp:	61
Ion	Ratio	Lower	Upper
117	100		
201	0.0	31.9	95.5#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 4.258 ug/l

RT: 12.86 min Scan# 1250

Delta R.T. -0.16 min

Lab File: VF059740.D

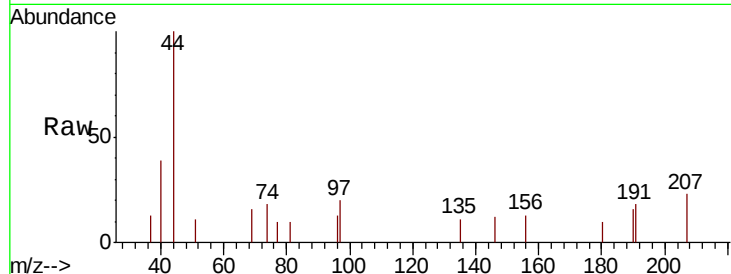
Acq: 1 Aug 2018 7:21

Instrument :

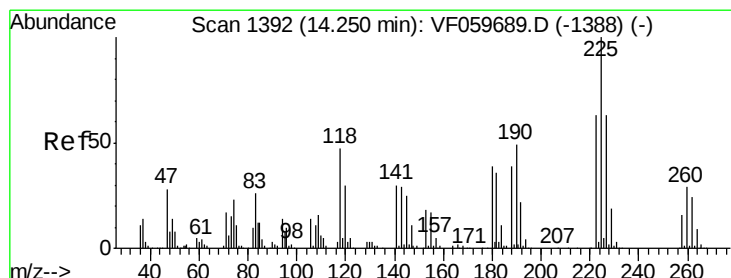
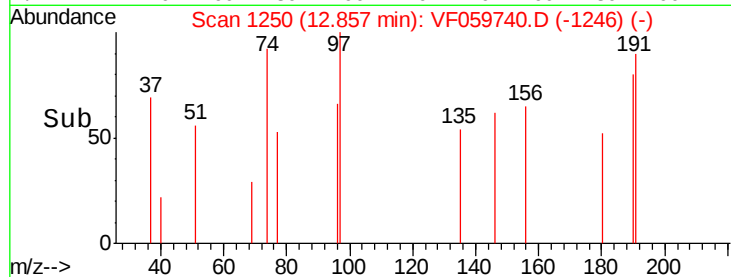
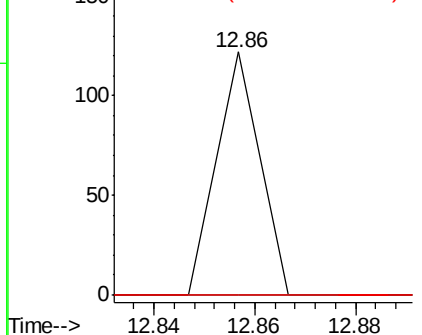
MSVOA_F

ClientSampled :

Tot Ion:	146	Resp:	72
Ion	Ratio	Lower	Upper
146	100		
111	0.0	21.6	65.0#
148	0.0	32.3	96.9#



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#94

Hexachlorobutadiene

Concen: 13.761 ug/l

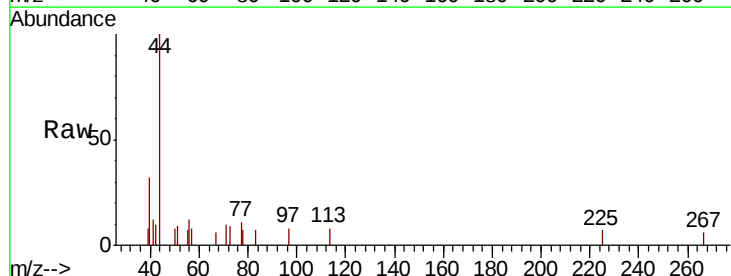
RT: 14.35 min Scan# 1401

Delta R.T. 0.09 min

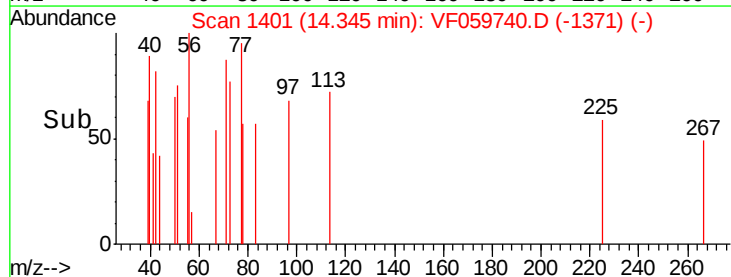
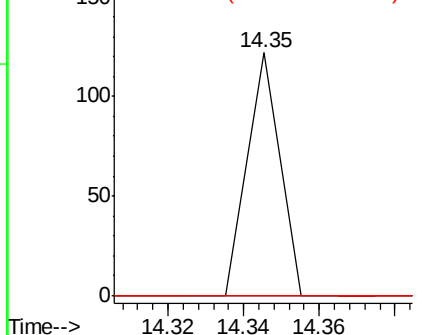
Lab File: VF059740.D

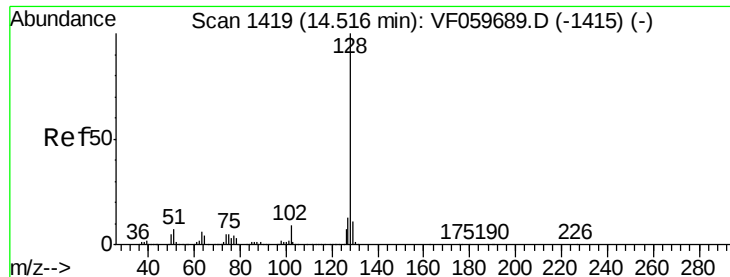
Acq: 1 Aug 2018 7:21

Tgt Ion:	225	Resp:	72
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.4	94.2#
227	0.0	31.5	94.5#



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 7.489 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.01 min

Lab File: VF059740.D

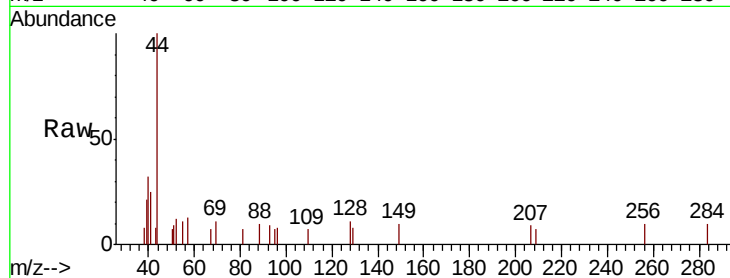
Acq: 1 Aug 2018 7:21

Instrument :

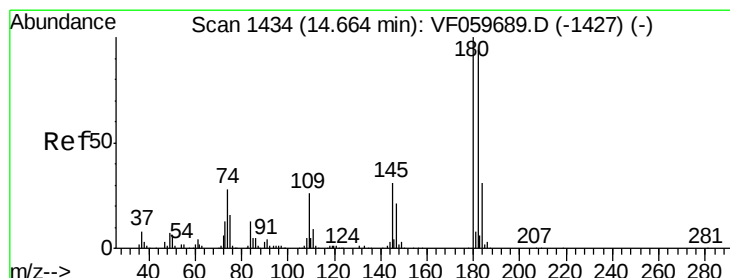
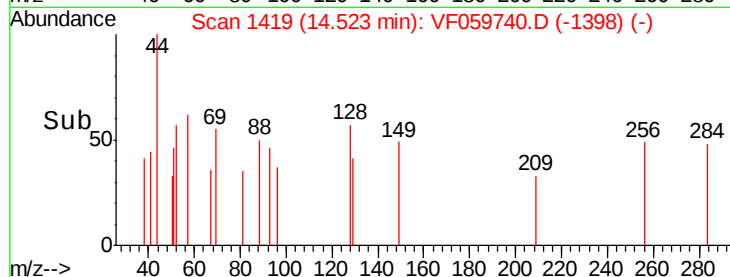
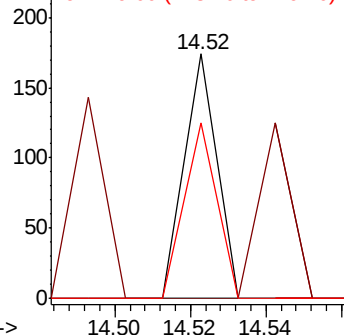
MSVOA_F

ClientSampled :

Tot Ion:	128	Resp:	103
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	71.8	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: 8.156 ug/l

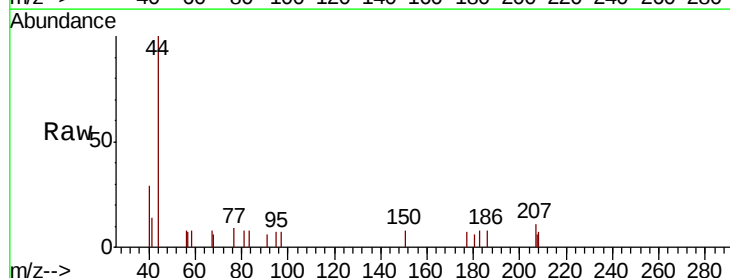
RT: 14.70 min Scan# 1437

Delta R.T. 0.04 min

Lab File: VF059740.D

Acq: 1 Aug 2018 7:21

Tgt Ion:	180	Resp:	62
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

