

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080218\
 Data File : VF059828.D
 Acq On : 3 Aug 2018 9:38
 Operator : VA/AP
 Sample : J4267-13
 Misc : 5.02g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 UST-W

Quant Time: Aug 03 10:51:52 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	5.03	168	6496	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	5168	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	1365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	1430	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	3007	25.76	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	51.52%	
35) Dibromofluoromethane	4.28	113	2551	47.52	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.04%	
50) Toluene-d8	7.71	98	373	2.98	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	5.96%	
62) 4-Bromofluorobenzene	11.51	95	1185	17.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	34.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.87	85	65	Below Cal	#	44
3) Chloromethane	1.10	50	445	7.63	ug/l	38
4) Vinyl Chloride	1.13	62	61	Below Cal	#	47
5) Bromomethane	1.35	94	70	Below Cal	#	4
9) 1,1,2-Trichlorotrifluoroet	1.87	101	79	1.24	ug/l	22
12) 1,1-Dichloroethene	1.80	96	86	1.71	ug/l	1
13) Acrolein	1.96	56	72	43.39	ug/l	4
14) Allyl chloride	2.20	41	102	1.27	ug/l	55
15) Acrylonitrile	3.17	53	89	11.86	ug/l	7
16) Acetone	2.30	43	202	9.62	ug/l	68
17) Carbon Disulfide	2.02	76	108	Below Cal	#	71
18) Methyl Acetate	2.54	43	68	Below Cal	#	64
20) Methylene Chloride	2.23	84	75	Below Cal	#	1
21) trans-1,2-Dichloroethene	2.45	96	67	Below Cal	#	1
25) 2-Butanone	4.52	43	271	11.56	ug/l	74
28) Bromochloromethane	3.92	49	92	Below Cal	#	15
29) Tetrahydrofuran	4.22	42	63	6.99	ug/l	39
31) Cyclohexane	3.93	56	64	Below Cal	#	15
36) 1,1-Dichloropropene	4.47	75	63	Below Cal	#	46
37) Ethyl Acetate	4.32	43	160	1.73	ug/l	19
41) Methacrylonitrile	4.93	41	240	16.57	ug/l	58
42) 1,2-Dichloroethane	5.03	62	90	1.23	ug/l	1
43) Isopropyl Acetate	7.21	43	70	2.27	ug/l	46
45) 1,2-Dichloropropane	6.40	63	135	4.90	ug/l	43
46) Dibromomethane	6.19	93	83	3.17	ug/l	8
48) Methyl methacrylate	6.80	41	231	9.94	ug/l	13
49) 1,4-Dioxane	6.38	88	63	395.36	ug/l	21
51) 4-Methyl-2-Pentanone	8.39	43	60	2.55	ug/l	42
53) t-1,3-Dichloropropene	8.31	75	72	1.16	ug/l	41
54) cis-1,3-Dichloropropene	7.44	75	79	1.32	ug/l	79
55) 1,1,2-Trichloroethane	8.71	97	64	2.26	ug/l	14
56) Ethyl methacrylate	8.85	69	133	4.51	ug/l	14
58) 2-Chloroethyl Vinyl ether	7.83	63	229	67.28	ug/l	100
59) 2-Hexanone	9.45	43	173	9.18	ug/l	85

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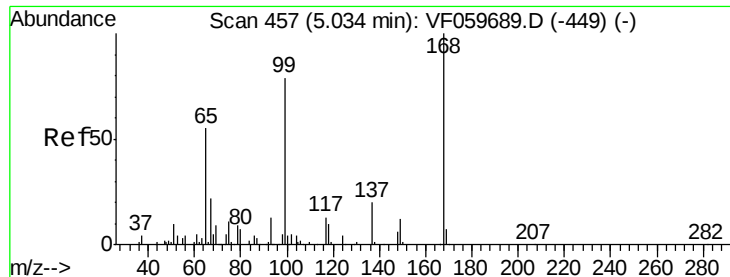
Instrument :
 MSVOA_F
 ClientSampleId :
 UST-W

Quant Time: Aug 03 10:51:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

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

64) Tetrachloroethene	8.33	164	71	3.60	ug/l #	1
65) Chlorobenzene	9.89	112	83	3.04	ug/l #	43
67) Ethyl Benzene	9.94	91	62	1.31	ug/l #	46
69) o-Xylene	10.83	106	79	4.54	ug/l #	1
70) Styrene	10.73	104	65	2.46	ug/l #	26
74) N-amyl acetate	11.48	43	372	15.71	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	11.69	83	65	3.68	ug/l #	25
78) n-propylbenzene	11.79	91	76	Below Cal	#	54
79) 2-Chlorotoluene	11.79	91	76	Below Cal	#	44
80) 1,3,5-Trimethylbenzene	11.97	105	72	Below Cal	#	31
82) 4-Chlorotoluene	12.04	91	60	Below Cal	#	44
84) 1,2,4-Trimethylbenzene	12.33	105	69	Below Cal	#	33
85) sec-Butylbenzene	12.38	105	79	Below Cal	#	57
86) p-Isopropyltoluene	12.56	119	66	Below Cal	#	49
87) 1,3-Dichlorobenzene	12.57	146	62	Below Cal	#	24
88) 1,4-Dichlorobenzene	12.64	146	62	Below Cal	#	24
89) n-Butylbenzene	12.91	91	118	Below Cal	#	29
91) 1,2-Dichlorobenzene	12.88	146	75	Below Cal	#	24
92) 1,2-Dibromo-3-Chloropropan	13.73	75	92	21.31	ug/l #	52
95) Naphthalene	14.50	128	263	4.27	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.53	180	67	1.97	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

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ClientSampleId :

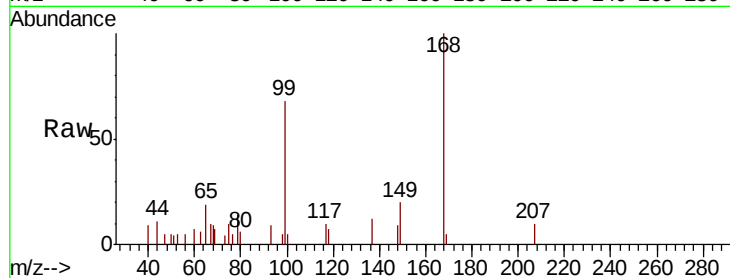
UST-W

Tot Ion:168 Resp: 6496

Ion Ratio Lower Upper

168 100

99 68.0 63.3 94.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

2500

2000

1500

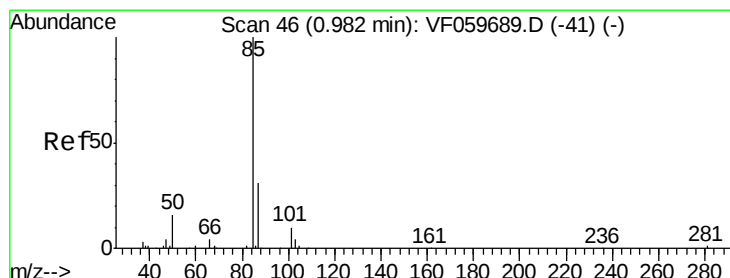
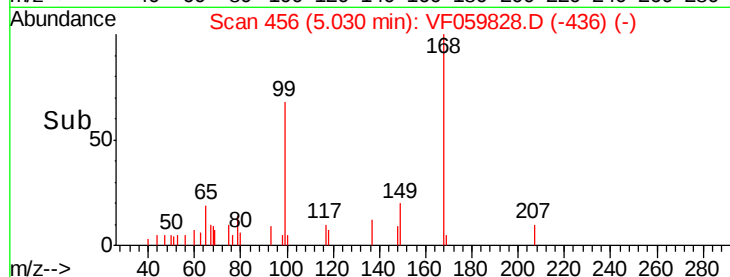
1000

500

0

Time-->

5.00 5.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.87 min Scan# 34

Delta R.T. -0.11 min

Lab File: VF059828.D

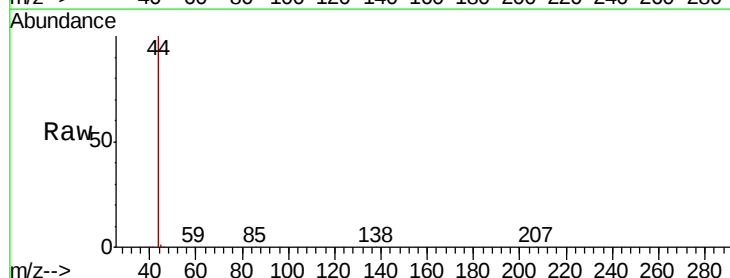
Acq: 3 Aug 2018 9:38

Tgt Ion: 85 Resp: 65

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

0.87

150

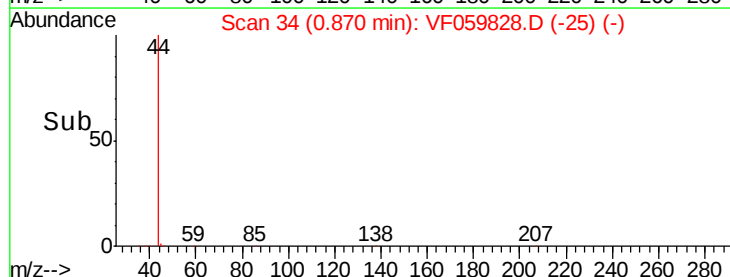
100

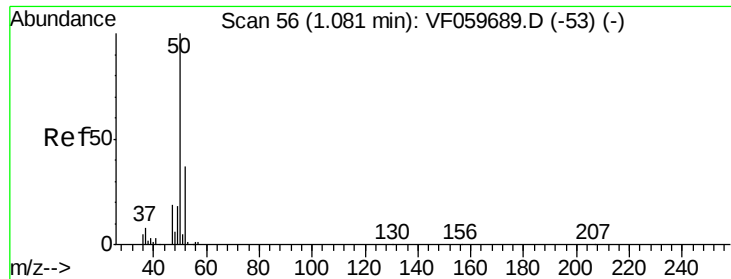
50

0

Time-->

0.84 0.86 0.88 0.90





#3

Chloromethane

Concen: 7.63 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.02 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampleId :

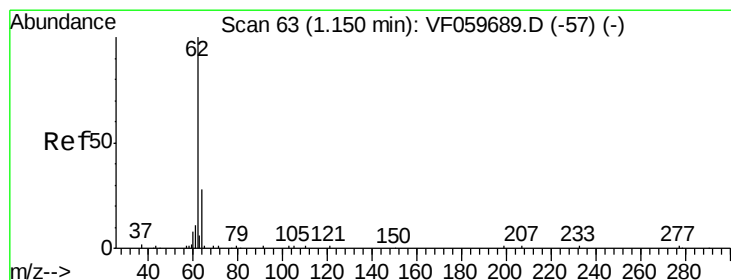
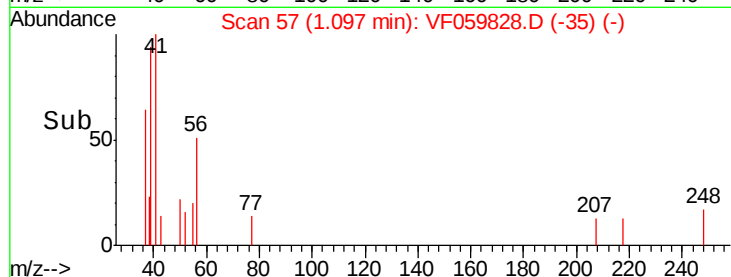
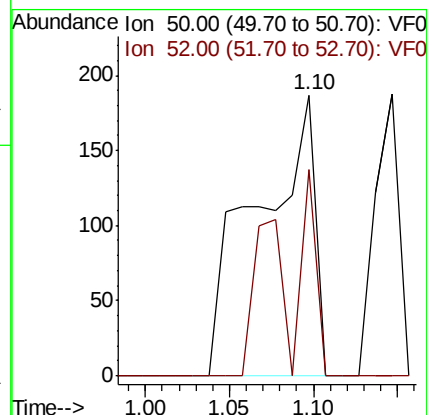
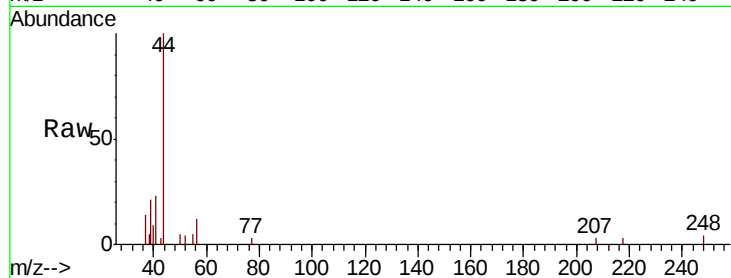
UST-W

Tot Ion: 50 Resp: 445

Ion Ratio Lower Upper

50 100

52 73.3 29.1 43.7#



#4

Vinyl Chloride

Concen: Below Cal

RT: 1.13 min Scan# 60

Delta R.T. -0.02 min

Lab File: VF059828.D

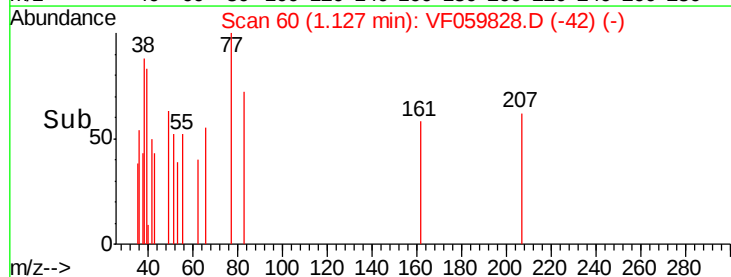
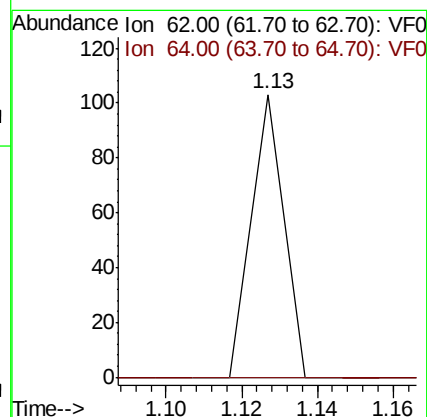
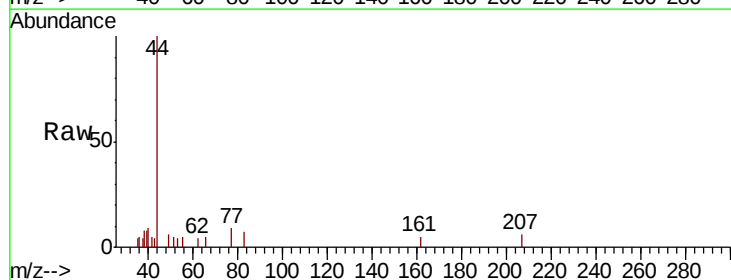
Acq: 3 Aug 2018 9:38

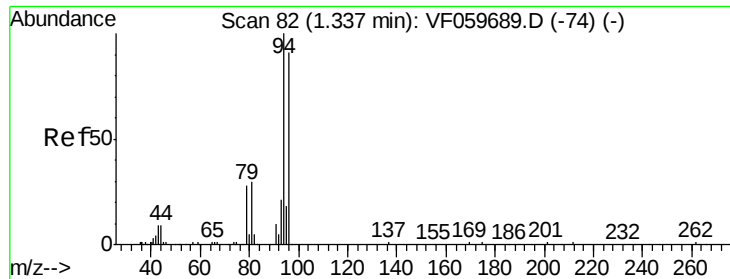
Tgt Ion: 62 Resp: 61

Ion Ratio Lower Upper

62 100

64 0.0 22.6 33.8#





#5

Bromomethane

Concen: Below Cal

RT: 1.35 min Scan# 83

Delta R.T. 0.02 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampled :

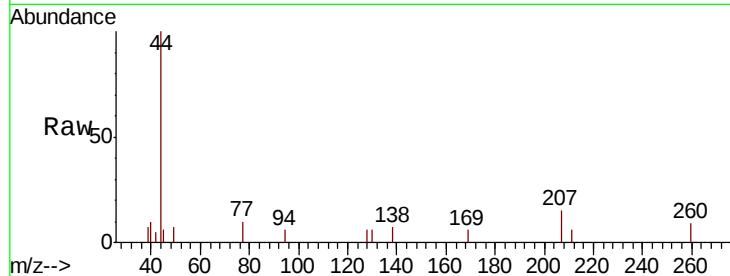
UST-W

Tot Ion: 94 Resp: 70

Ion Ratio Lower Upper

94 100

96 0.0 73.6 110.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.35

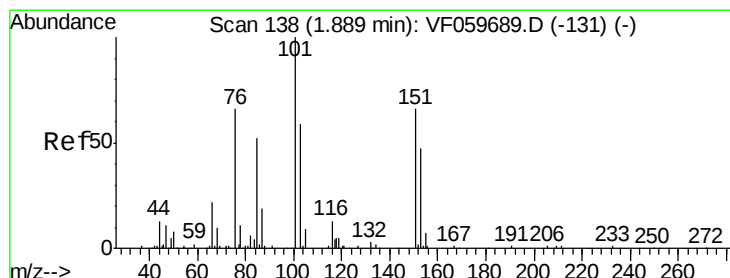
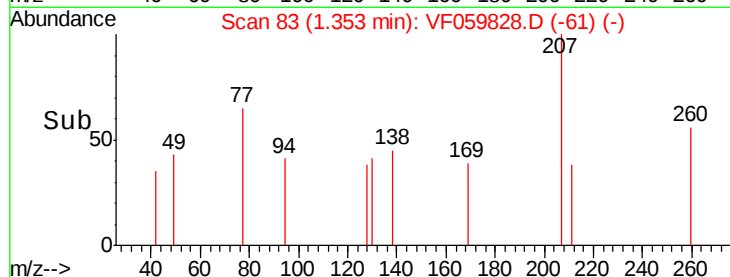
100

50

0

1.34 1.36 1.38

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.24 ug/l

RT: 1.87 min Scan# 135

Delta R.T. -0.02 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

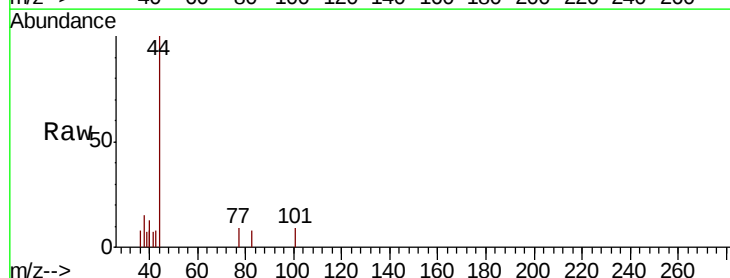
Tgt Ion:101 Resp: 79

Ion Ratio Lower Upper

101 100

85 0.0 40.7 61.1#

151 0.0 51.4 77.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V

150

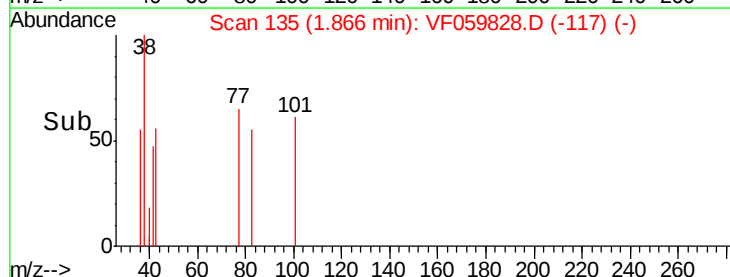
100

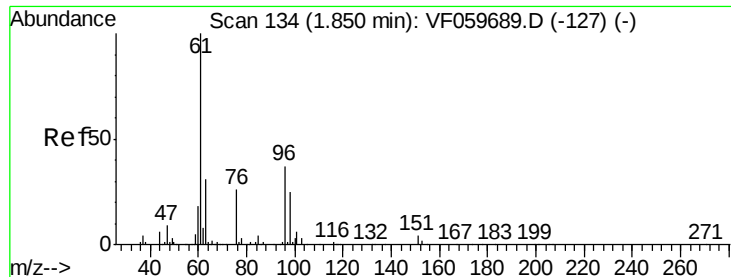
50

0

1.84 1.86 1.88 1.90

Time-->





#12

1,1-Dichloroethene

Concen: 1.71 ug/l

RT: 1.80 min Scan# 128

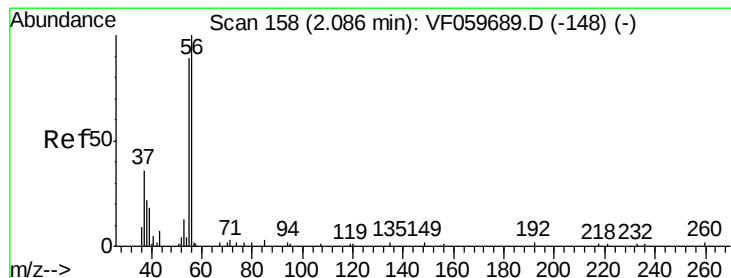
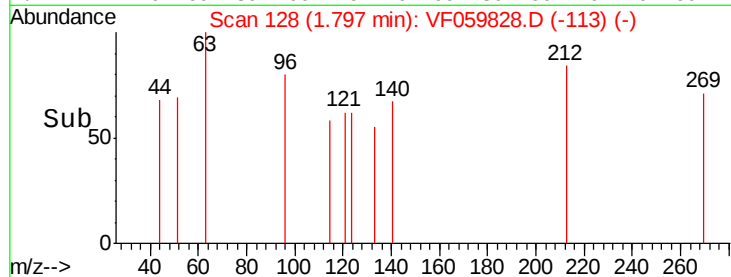
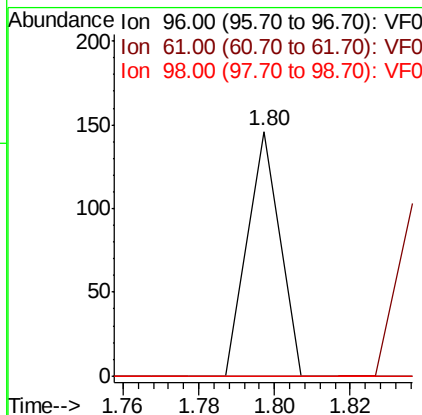
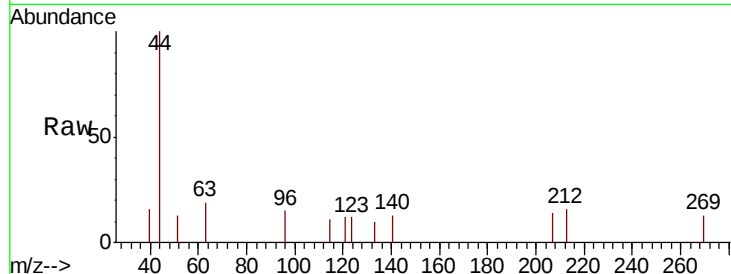
Delta R.T. -0.05 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :
MSVOA_F
ClientSampled :
UST-W

Tot Ion:	96	Resp:	86
Ion	Ratio	Lower	Upper
96	100		
61	0.0	215.1	322.7#
98	0.0	54.3	81.5#



#13

Acrolein

Concen: 43.39 ug/l

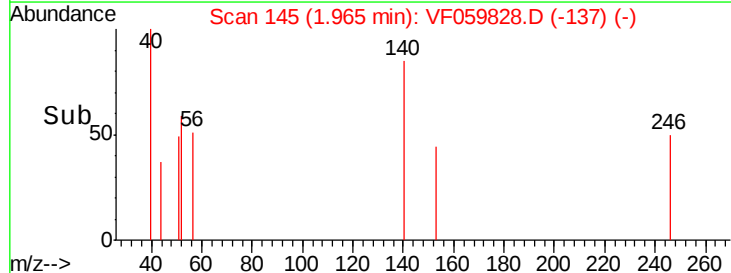
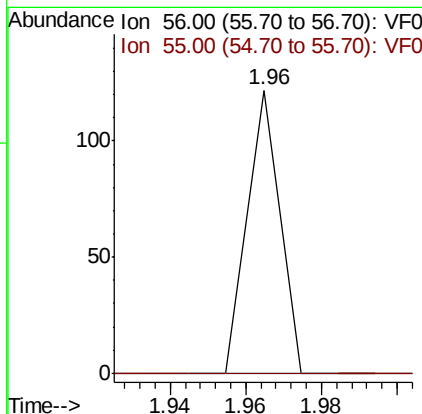
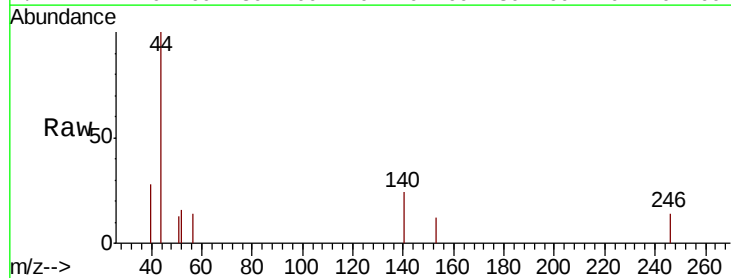
RT: 1.96 min Scan# 145

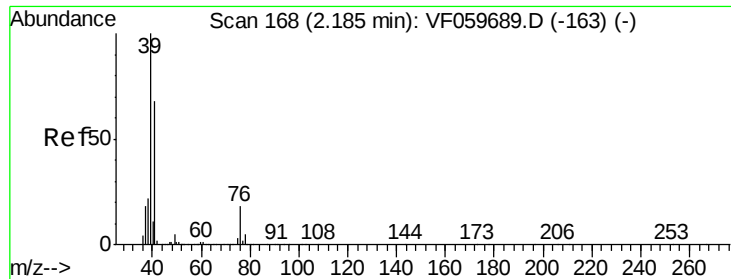
Delta R.T. -0.12 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Tgt Ion:	56	Resp:	72
Ion	Ratio	Lower	Upper
56	100		
55	0.0	73.2	109.8#

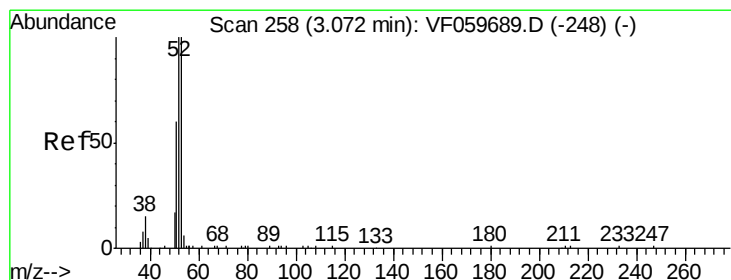
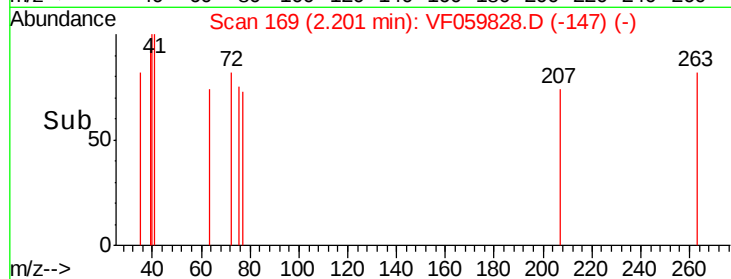
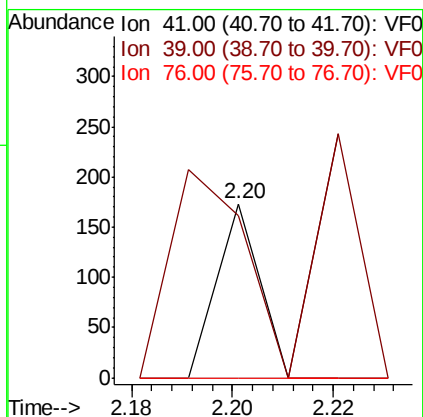
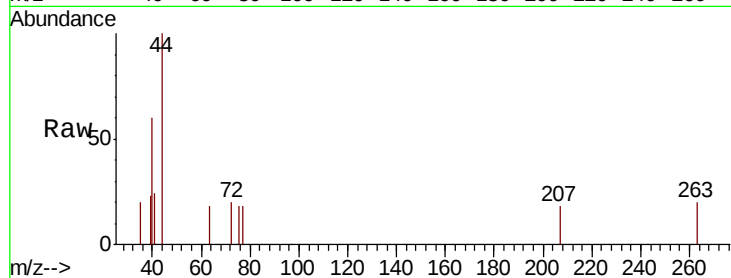




#14
Allvl chloride
Concen: 1.27 ug/l
RT: 2.20 min Scan# 169
Delta R.T. 0.02 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

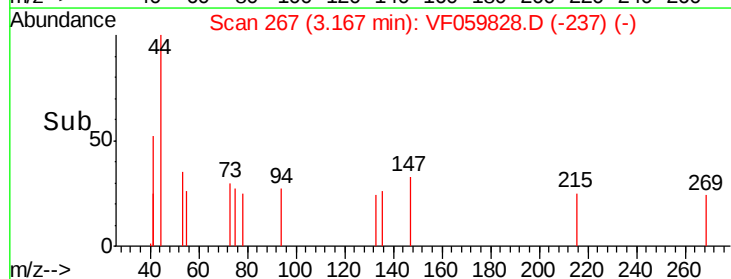
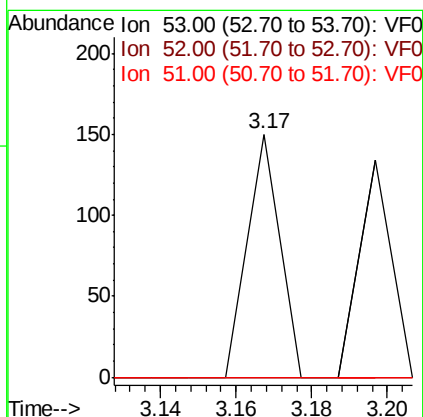
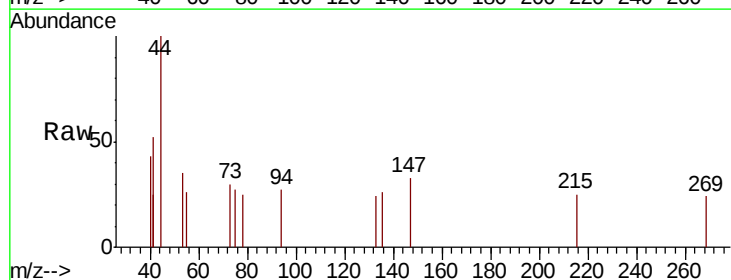
Instrument :
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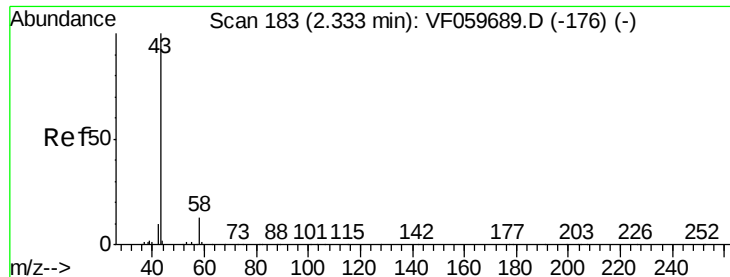
Tot Ion: 41 Resp: 102
Ion Ratio Lower Upper
41 100
39 93.1 118.1 177.1#
76 0.0 22.0 33.0#



#15
Acrylonitrile
Concen: 11.86 ug/l
RT: 3.17 min Scan# 267
Delta R.T. 0.10 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Tgt Ion: 53 Resp: 89
Ion Ratio Lower Upper
53 100
52 0.0 80.3 120.5#
51 0.0 49.4 74.0#





#16

Acetone

Concen: 9.62 ug/l

RT: 2.30 min Scan# 179

Delta R.T. -0.03 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampled :

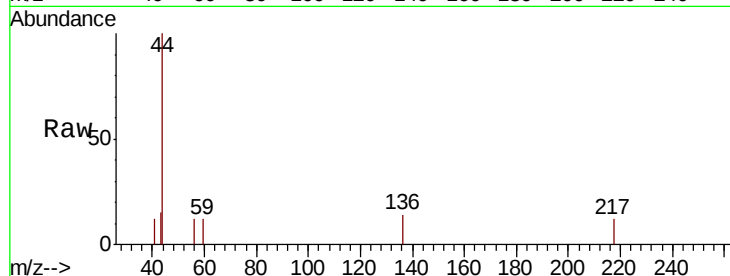
UST-W

Tot Ion: 43 Resp: 202

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

150

100

50

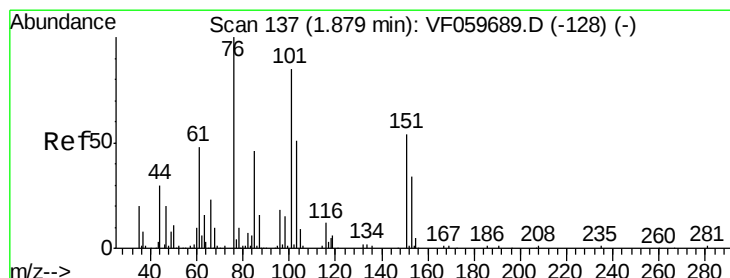
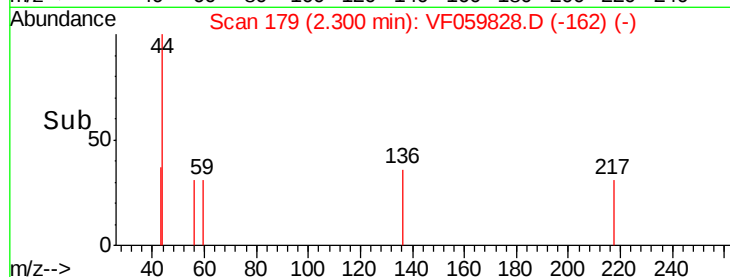
0

2.25

2.30

2.35

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.02 min Scan# 151

Delta R.T. 0.14 min

Lab File: VF059828.D

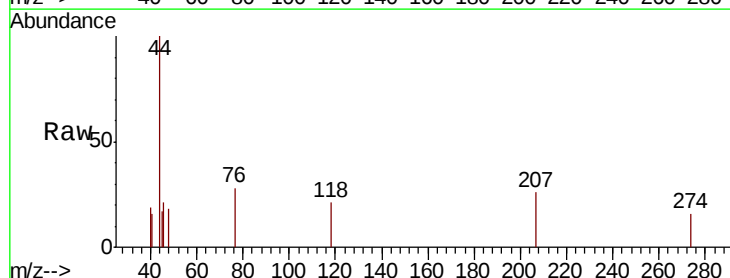
Acq: 3 Aug 2018 9:38

Tgt Ion: 76 Resp: 108

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

200

150

100

50

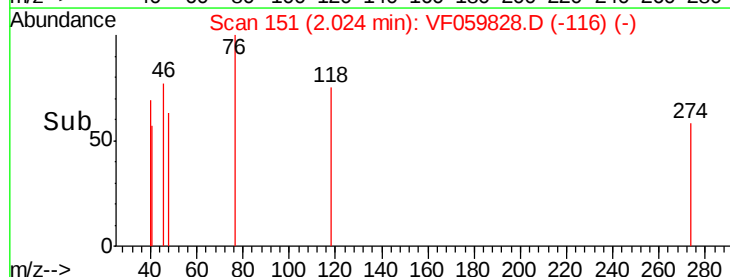
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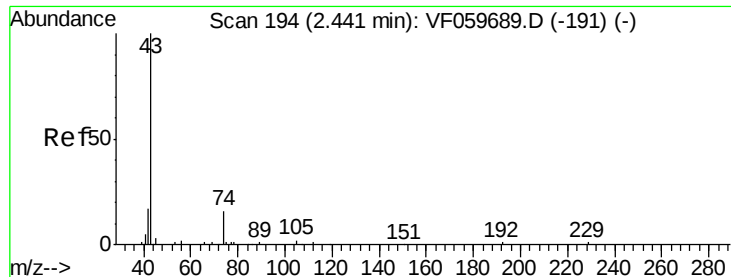
2.00

2.02

2.04

Time-->

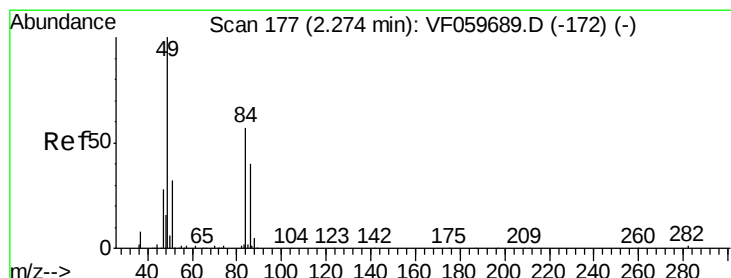
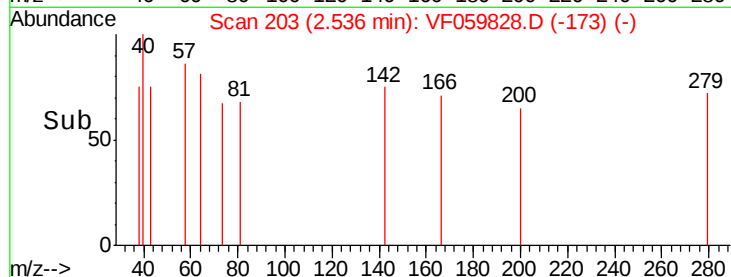
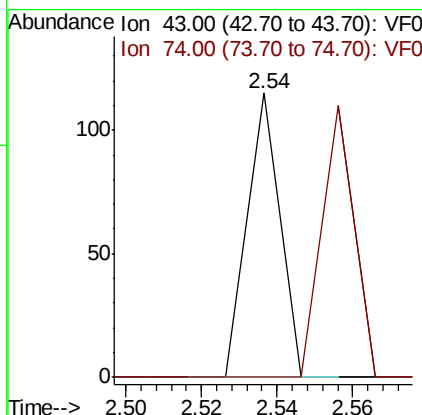
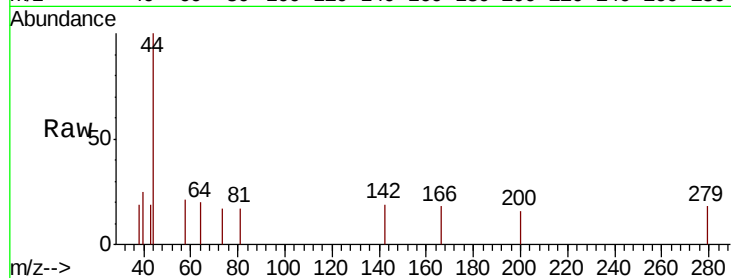




#18
Methyl Acetate
Concen: Below Cal
RT: 2.54 min Scan# 203
Delta R.T. 0.10 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

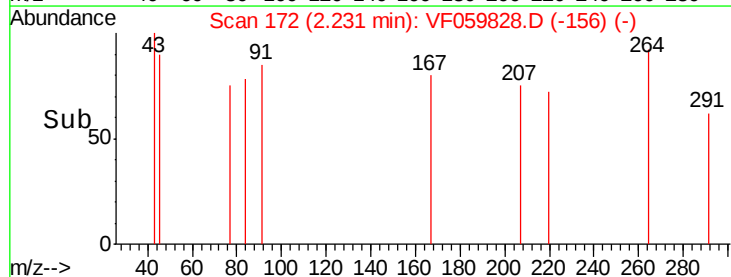
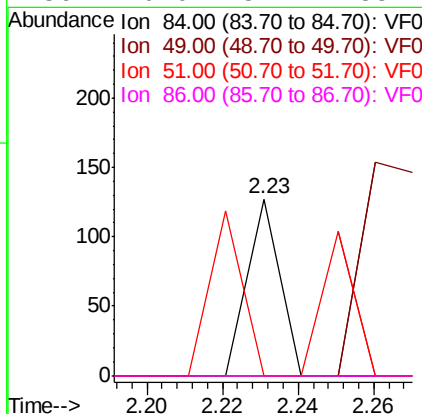
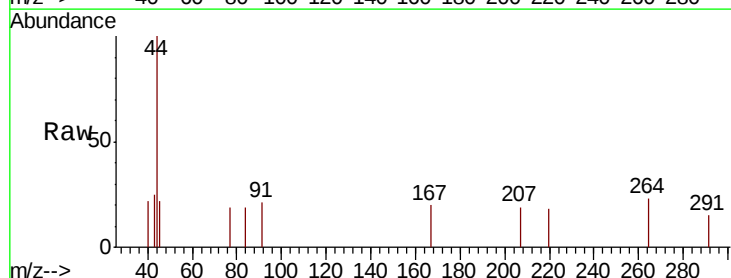
Instrument :
MSVOA_F
ClientSampled :
UST-W

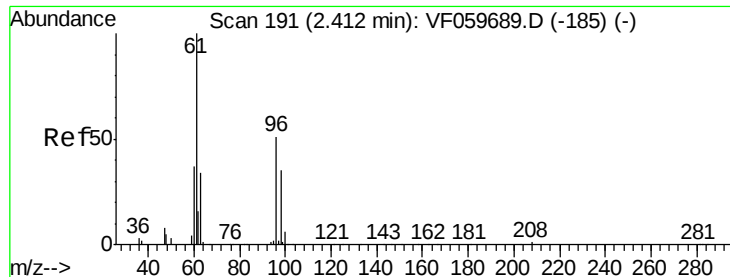
Tot Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.23 min Scan# 172
Delta R.T. -0.04 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Tgt Ion: 84 Resp: 75
Ion Ratio Lower Upper
84 100
49 0.0 142.2 213.4#
51 0.0 46.2 69.2#
86 0.0 57.1 85.7#





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 2.45 min Scan# 194

Delta R.T. 0.04 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampleId :

UST-W

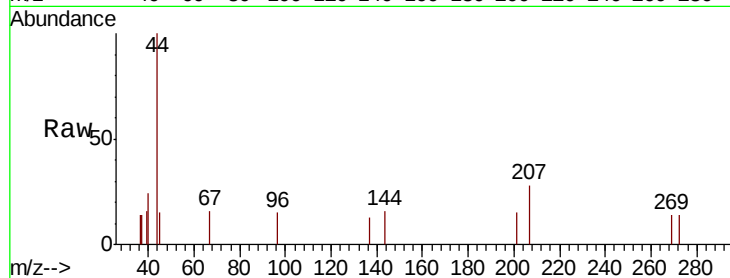
Tot Ion: 96 Resp: 67

Ion Ratio Lower Upper

96 100

61 0.0 157.4 236.0#

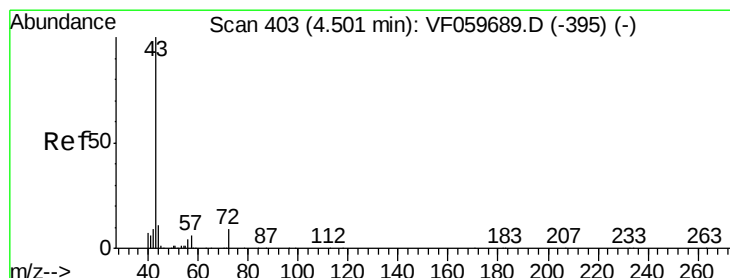
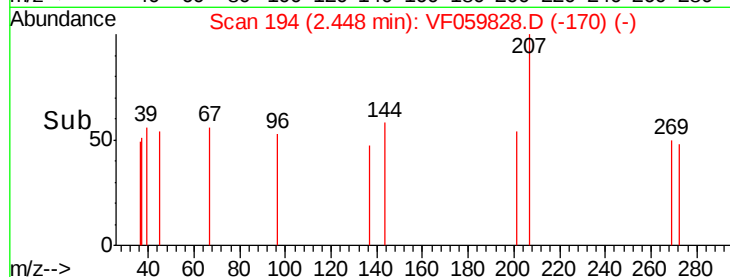
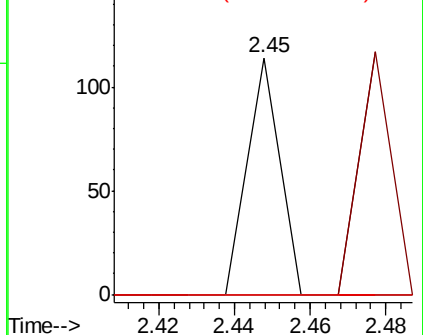
98 0.0 55.0 82.4#



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



#25

2-Butanone

Concen: 11.56 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.02 min

Lab File: VF059828.D

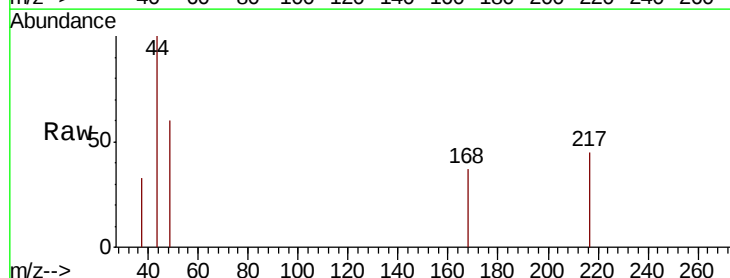
Acq: 3 Aug 2018 9:38

Tgt Ion: 43 Resp: 271

Ion Ratio Lower Upper

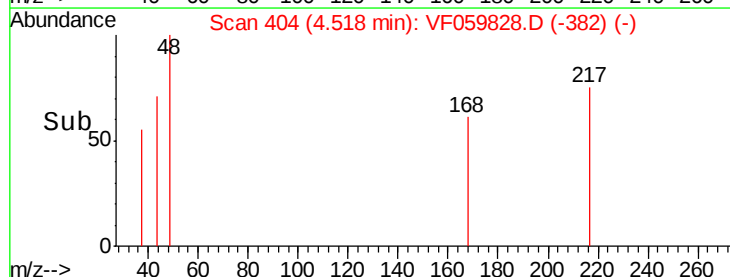
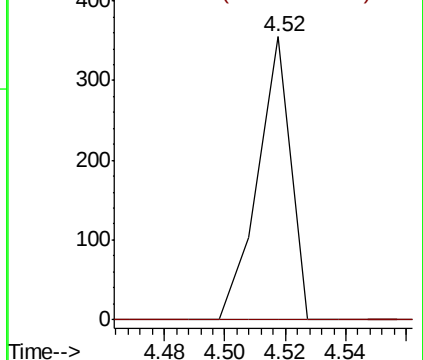
43 100

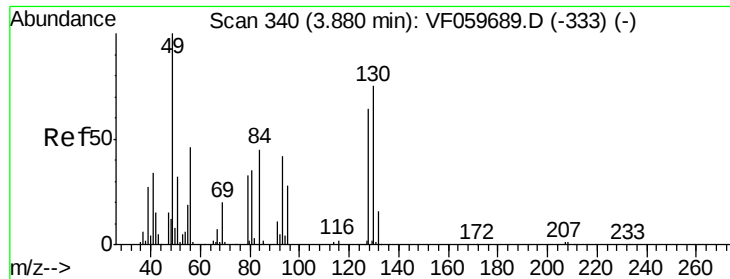
72 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#28

Bromochloromethane

Concen: Below Cal

RT: 3.92 min Scan# 343

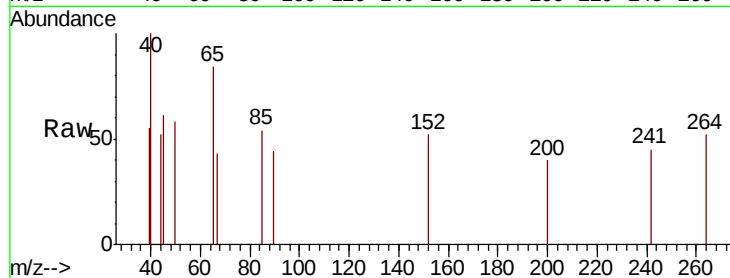
Delta R.T. 0.04 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :
MSVOA_F
ClientSampleId :
UST-W

Tot Ion:	49	Resp:	92
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.8
130	0.0	59.6	89.4#

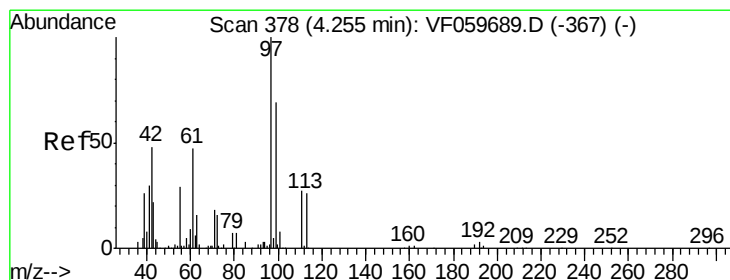
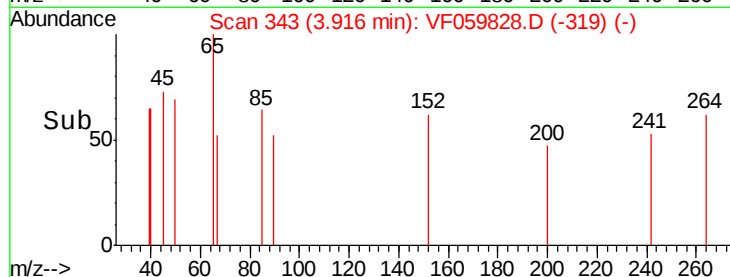
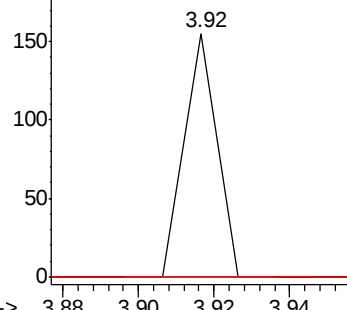


Abundance

Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: 6.99 ug/l

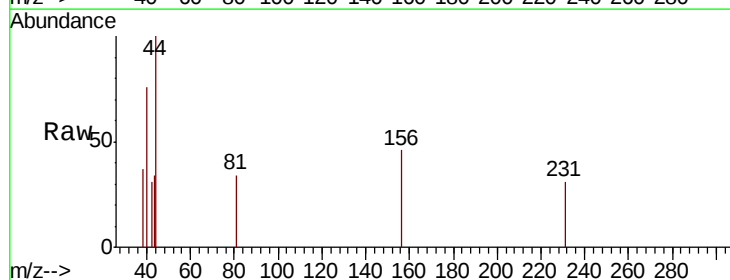
RT: 4.22 min Scan# 374

Delta R.T. -0.03 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Tgt Ion:	42	Resp:	63
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.0	40.6#
71	0.0	29.7	44.5#

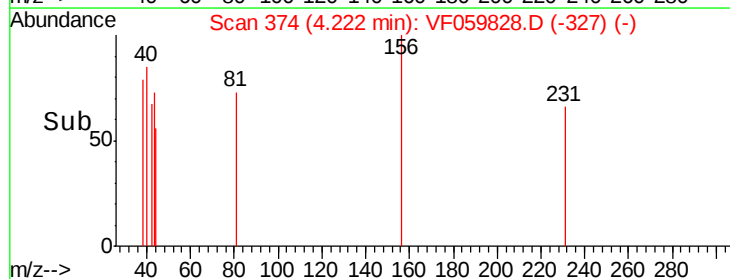
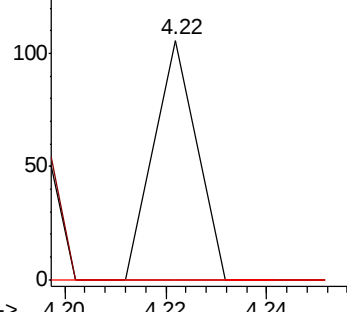


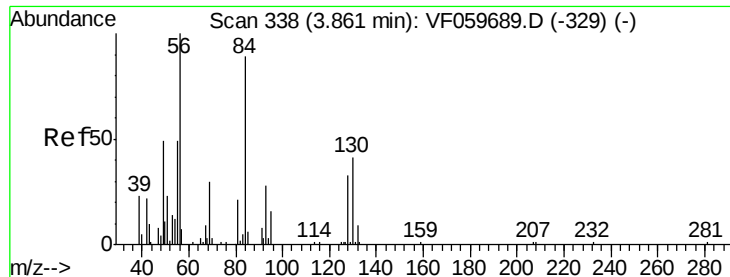
Abundance

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

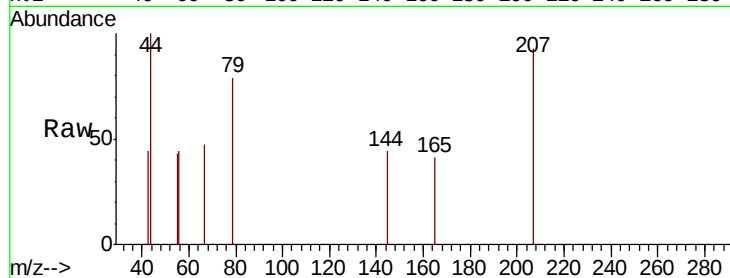




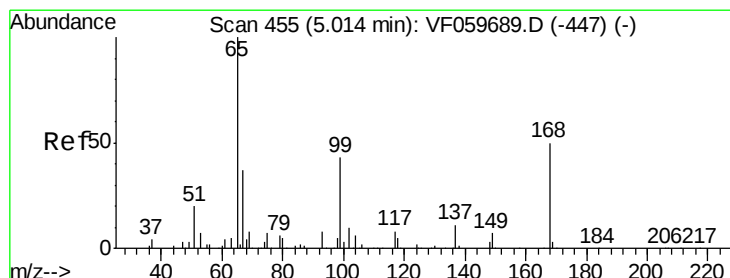
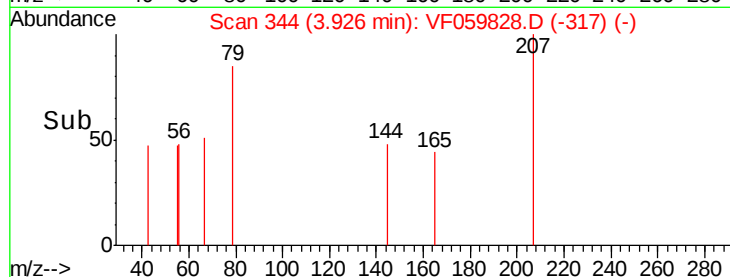
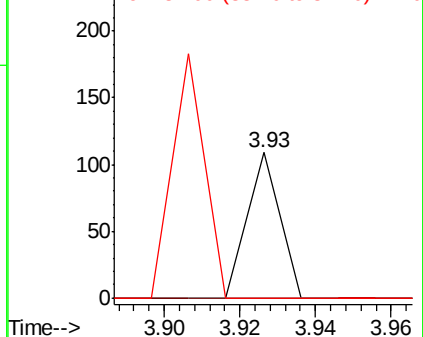
#31
Cyclohexane
Concen: Below Cal
RT: 3.93 min Scan# 344
Delta R.T. 0.07 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Instrument :
MSVOA_F
ClientSampled :
UST-W

Tot Ion: 56 Resp: 64
Ion Ratio Lower Upper
56 100
69 0.0 23.7 35.5#
84 0.0 71.1 106.7#

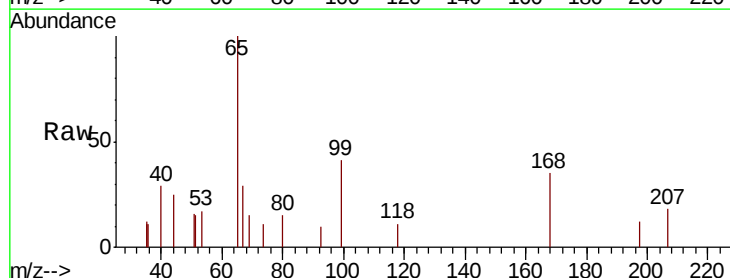


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

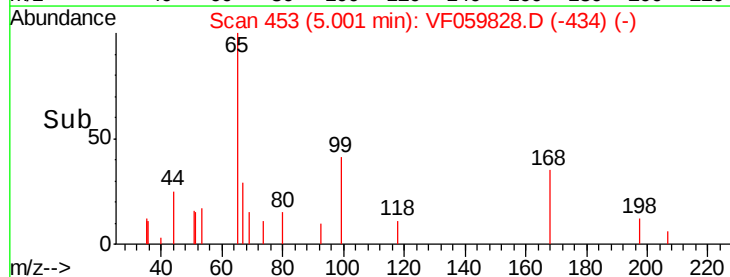
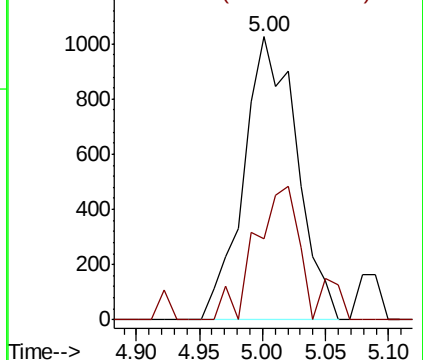


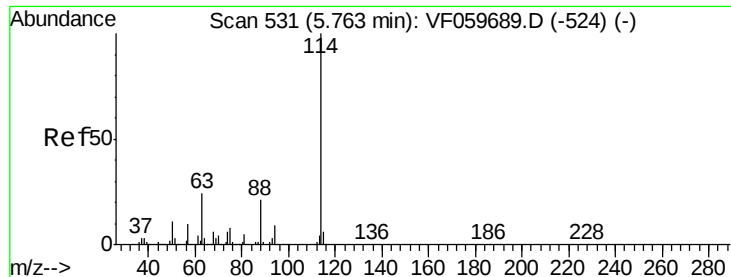
#33
1,2-Dichloroethane-d4
Concen: 25.76 ug/l
RT: 5.00 min Scan# 453
Delta R.T. -0.01 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Tgt Ion: 65 Resp: 3007
Ion Ratio Lower Upper
65 100
67 28.6 0.0 84.6



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampleId :

UST-W

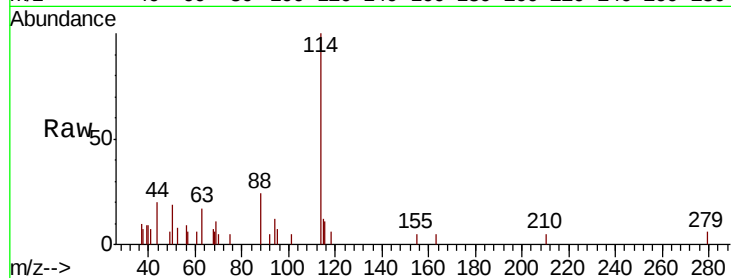
Tot Ion:114 Resp: 5168

Ion Ratio Lower Upper

114 100

63 17.4 0.0 47.4

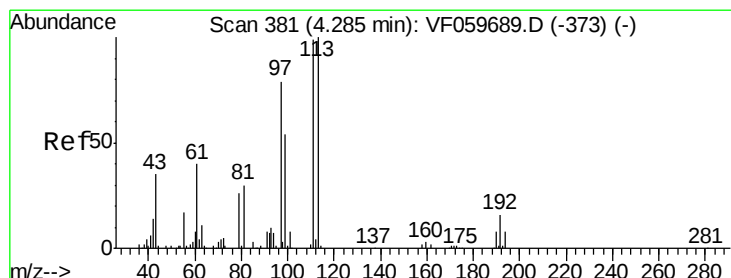
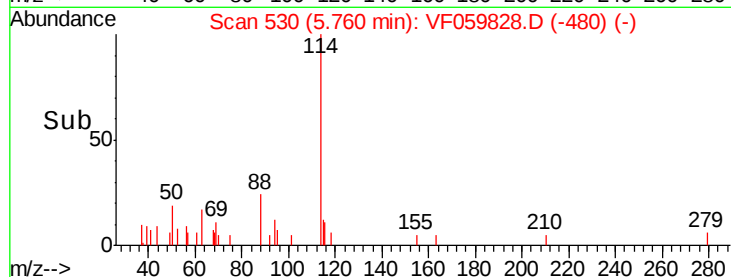
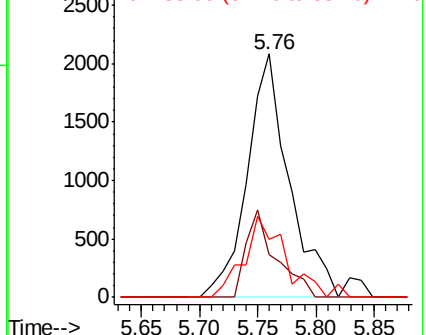
88 24.0 0.0 41.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 47.52 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

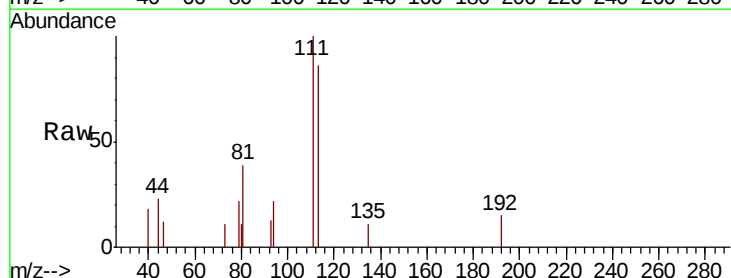
Tgt Ion:113 Resp: 2551

Ion Ratio Lower Upper

113 100

111 116.7 79.0 118.4

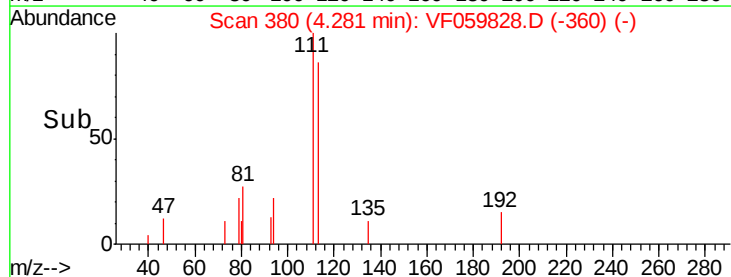
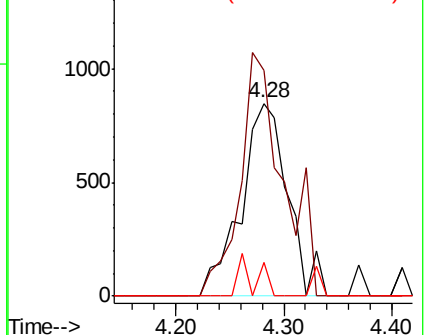
192 17.8 13.2 19.8

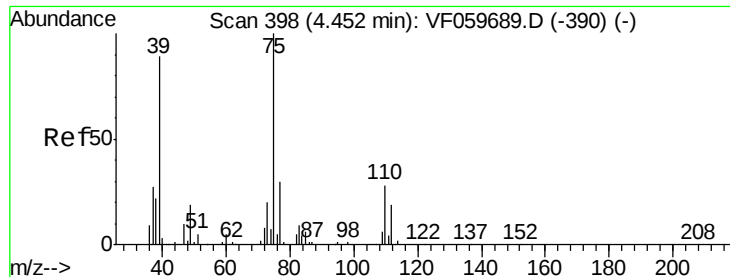


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

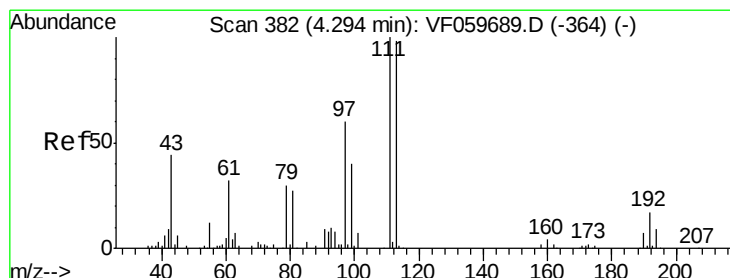
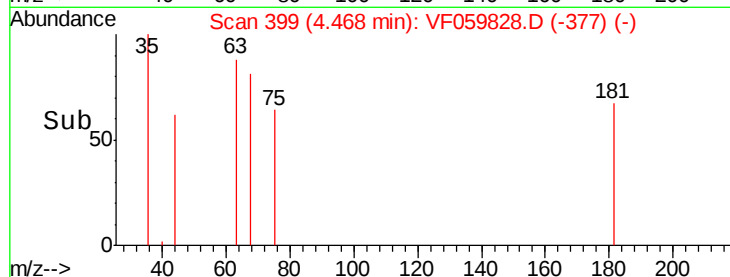
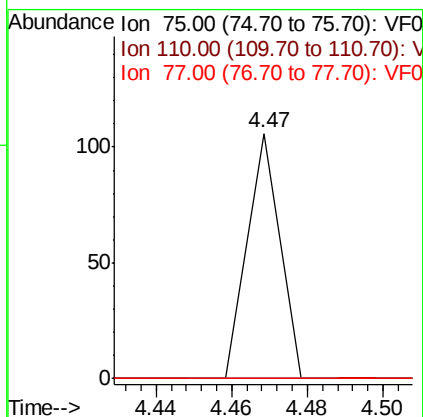
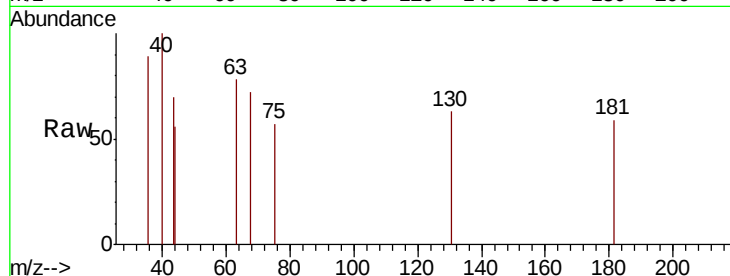




#36
 1,1-Dichloropropene
 Concen: Below Cal
 RT: 4.47 min Scan# 399
 Delta R.T. 0.02 min
 Lab File: VF059828.D
 Acq: 3 Aug 2018 9:38

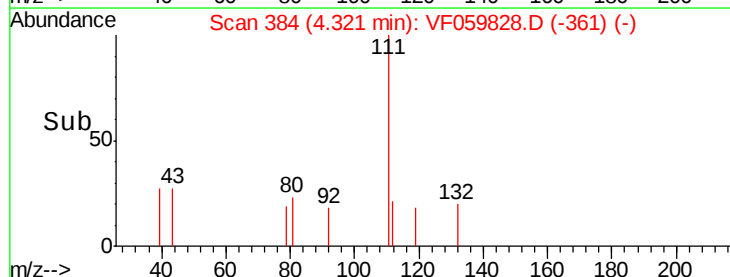
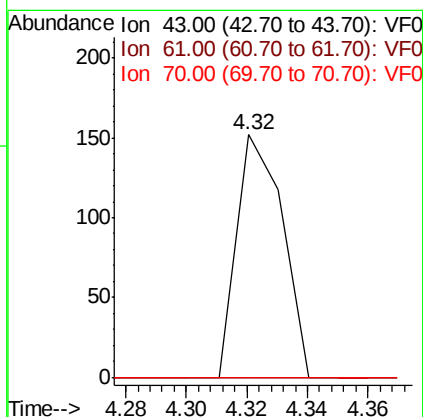
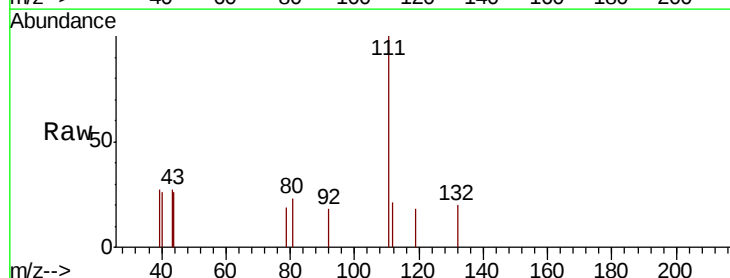
Instrument :
 MSVOA_F
 ClientSampleId :
 UST-W

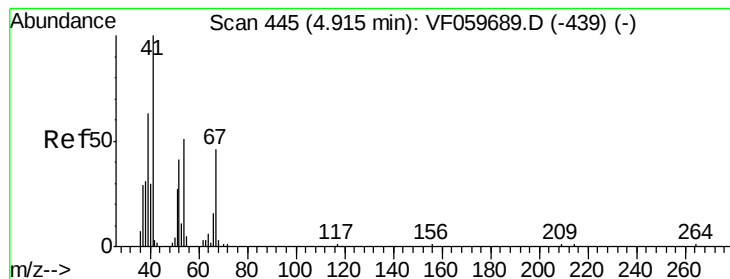
Tot Ion: 75 Resp: 63
 Ion Ratio Lower Upper
 75 100
 110 0.0 14.0 41.9#
 77 0.0 24.2 36.2#



#37
 Ethyl Acetate
 Concen: 1.73 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.03 min
 Lab File: VF059828.D
 Acq: 3 Aug 2018 9:38

Tgt Ion: 43 Resp: 160
 Ion Ratio Lower Upper
 43 100
 61 0.0 58.2 87.2#
 70 0.0 6.0 9.0#





#41

Methacrylonitrile

Concen: 16.57 ug/l

RT: 4.93 min Scan# 446

Delta R.T. 0.02 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampled :

UST-W

Tot Ion: 41 Resp: 240

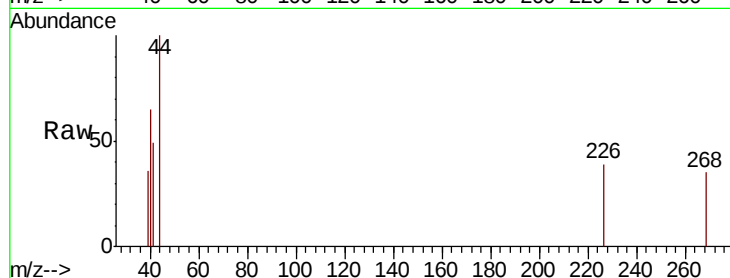
Ion Ratio Lower Upper

41 100

39 73.6 55.2 82.8

67 0.0 36.2 54.2#

52 0.0 37.7 56.5#

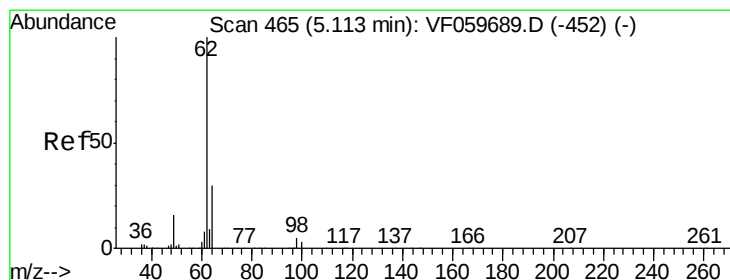
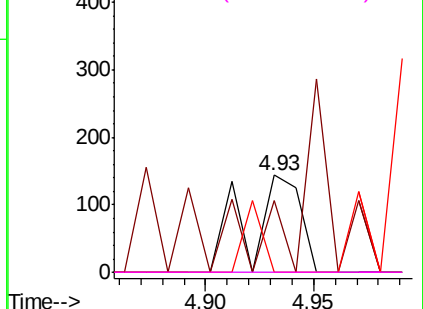
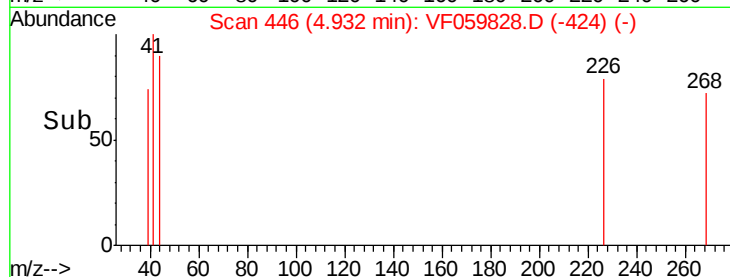


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 1.23 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.08 min

Lab File: VF059828.D

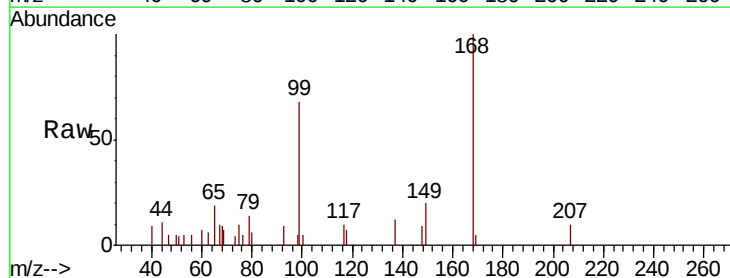
Acq: 3 Aug 2018 9:38

Tgt Ion: 62 Resp: 90

Ion Ratio Lower Upper

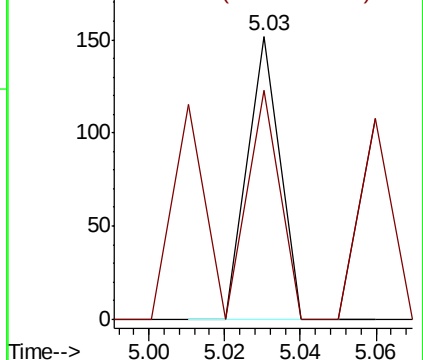
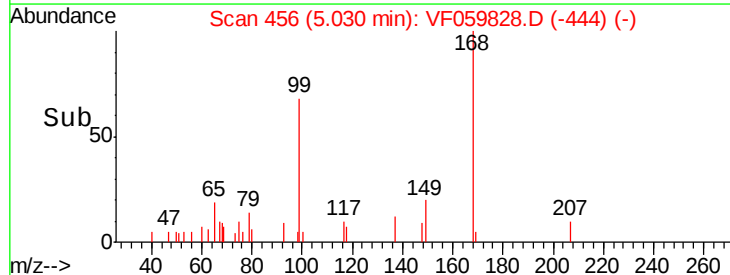
62 100

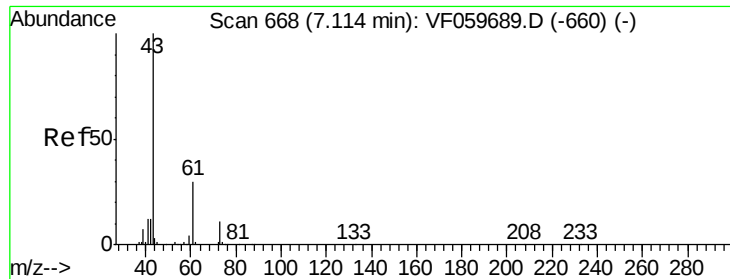
98 80.9 0.0 9.6#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 2.27 ug/l

RT: 7.21 min Scan# 677

Delta R.T. 0.10 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampleId :

UST-W

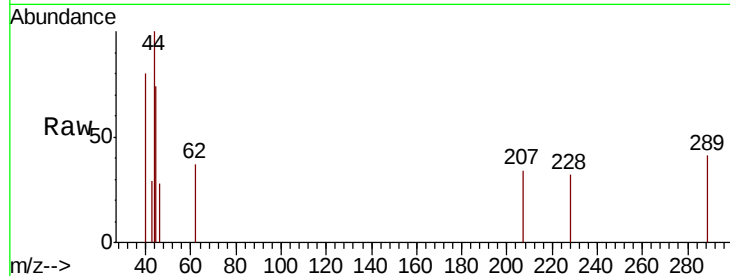
Tot Ion: 43 Resp: 70

Ion Ratio Lower Upper

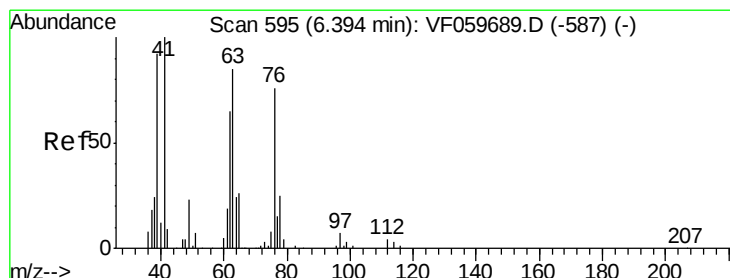
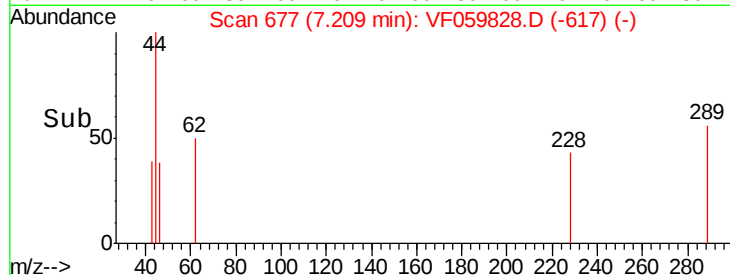
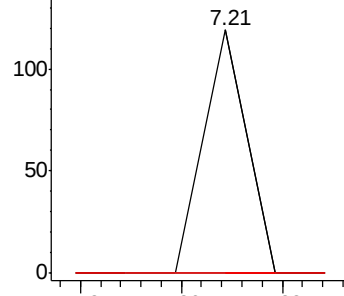
43 100

61 0.0 23.8 35.8#

87 0.0 0.6 1.0#



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



#45

1,2-Dichloropropane

Concen: 4.90 ug/l

RT: 6.40 min Scan# 595

Delta R.T. 0.01 min

Lab File: VF059828.D

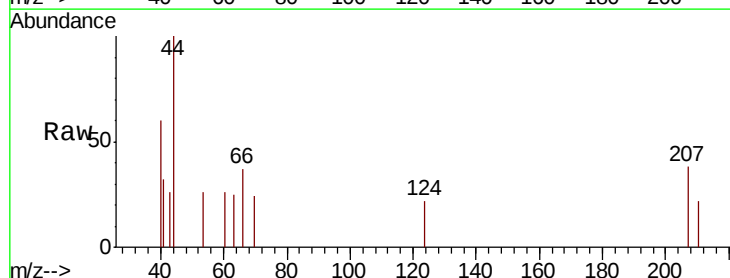
Acq: 3 Aug 2018 9:38

Tgt Ion: 63 Resp: 135

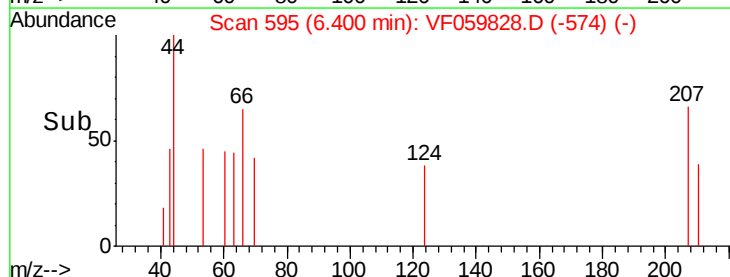
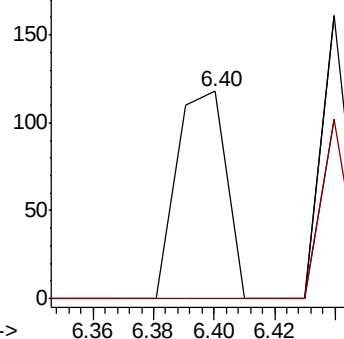
Ion Ratio Lower Upper

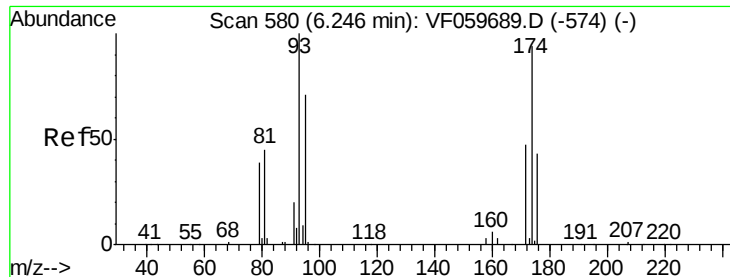
63 100

65 0.0 25.2 37.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0
Ion 65.00 (64.70 to 65.70): VF0





#46

Dibromomethane

Concen: 3.17 ug/l

RT: 6.19 min Scan# 574

Delta R.T. -0.05 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampled :

UST-W

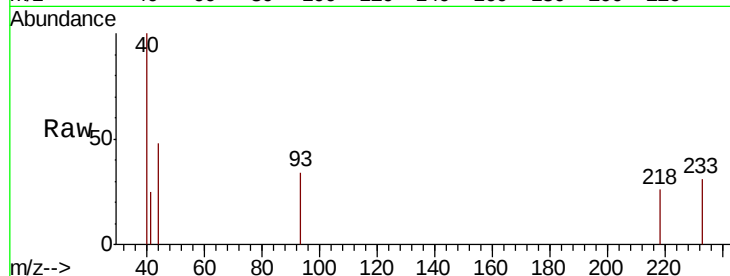
Tot Ion: 93 Resp: 83

Ion Ratio Lower Upper

93 100

95 0.0 57.1 85.7#

174 0.0 74.8 112.2#

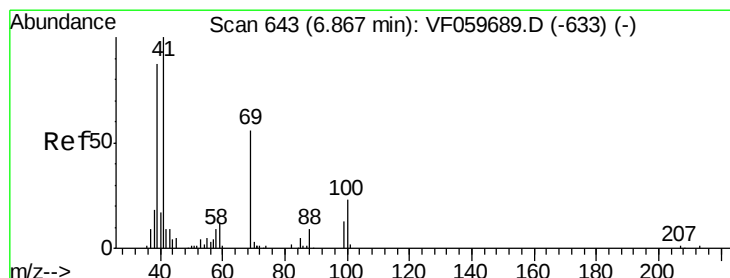
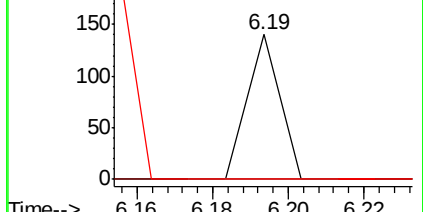
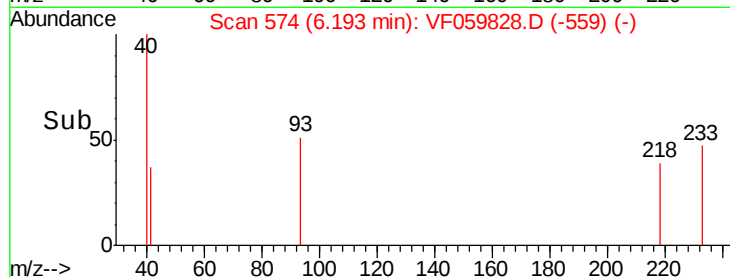


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Time-->



#48

Methyl methacrylate

Concen: 9.94 ug/l

RT: 6.80 min Scan# 636

Delta R.T. -0.06 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

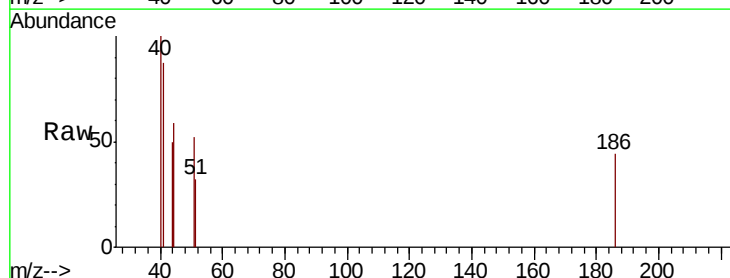
Tgt Ion: 41 Resp: 231

Ion Ratio Lower Upper

41 100

69 0.0 44.4 66.6#

39 0.0 69.4 104.2#

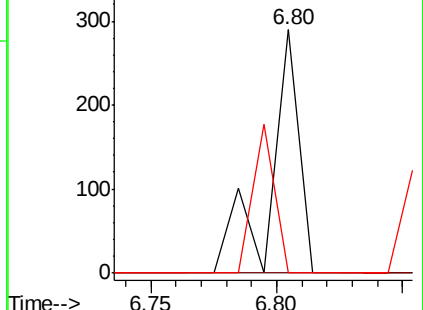
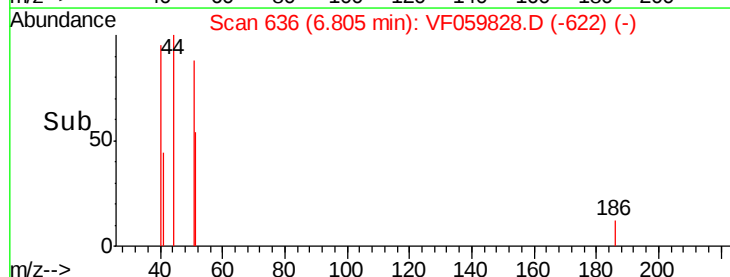


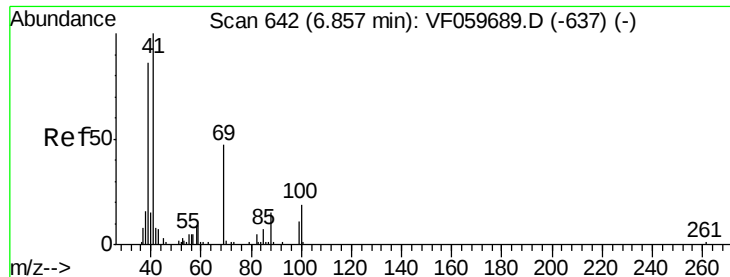
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Time-->





#49

1,4-Dioxane

Concen: 395.36 ug/l

RT: 6.38 min Scan# 593

Delta R.T. -0.48 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampled :

UST-W

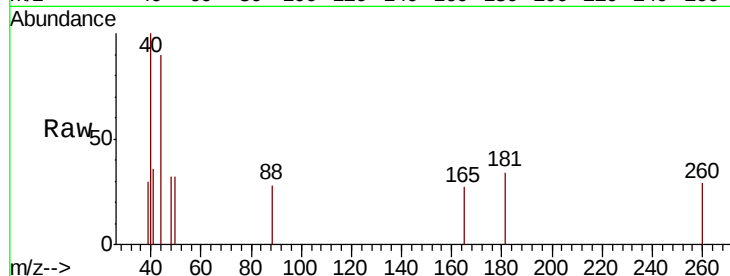
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 45.2 67.8#

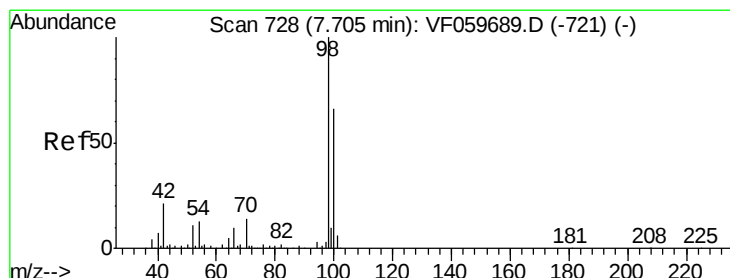
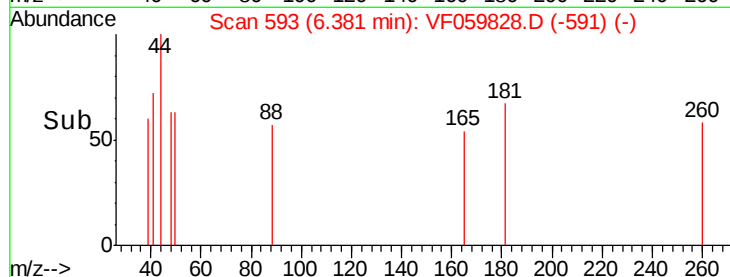
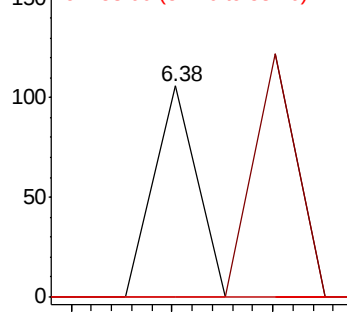
58 0.0 49.0 73.6#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 2.98 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059828.D

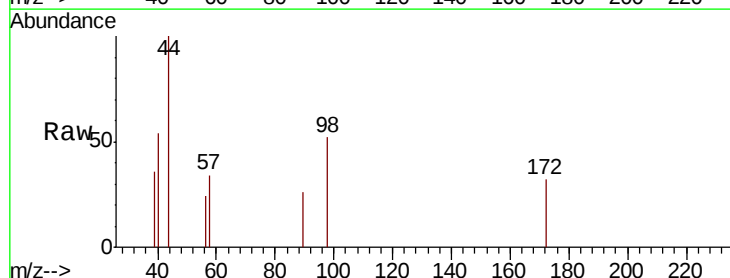
Acq: 3 Aug 2018 9:38

Tgt Ion: 98 Resp: 373

Ion Ratio Lower Upper

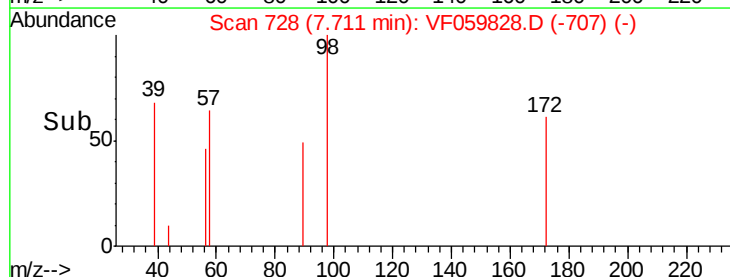
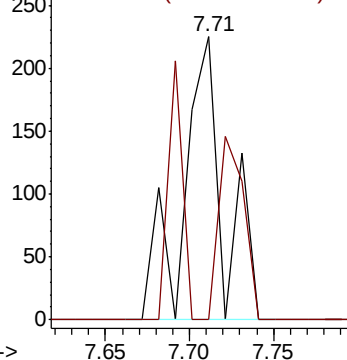
98 100

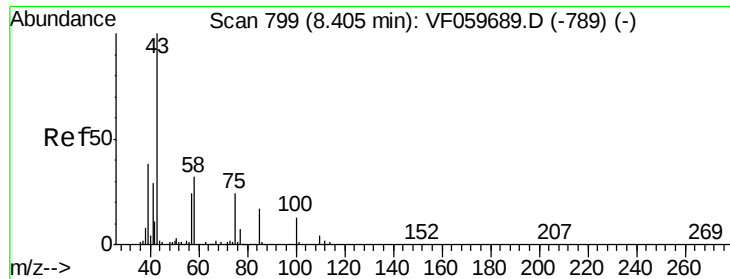
100 0.0 52.8 79.2#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.55 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampleId :

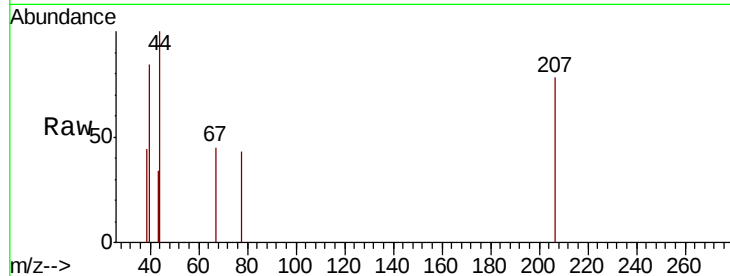
UST-W

Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

300

250

200

150

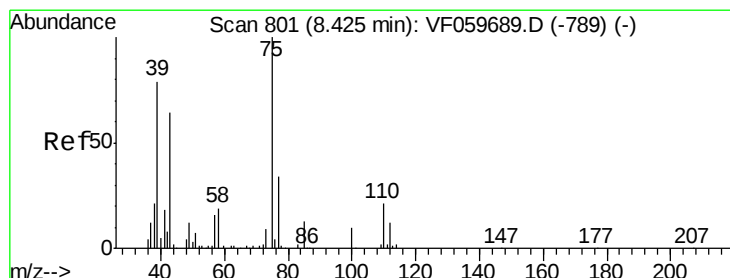
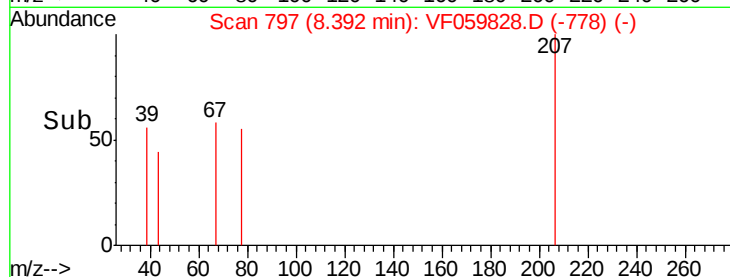
100

50

0

8.38 8.40 8.42

Time-->



#53

t-1,3-Dichloropropene

Concen: 1.16 ug/l

RT: 8.31 min Scan# 789

Delta R.T. -0.11 min

Lab File: VF059828.D

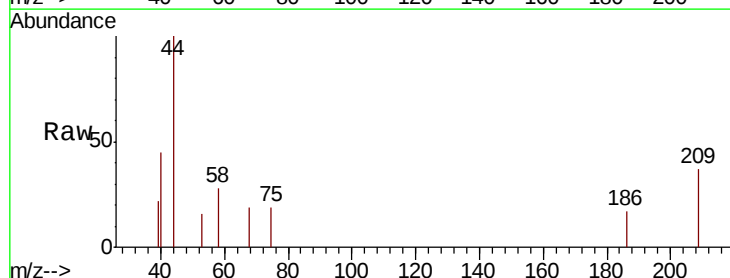
Acq: 3 Aug 2018 9:38

Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

77 0.0 27.0 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

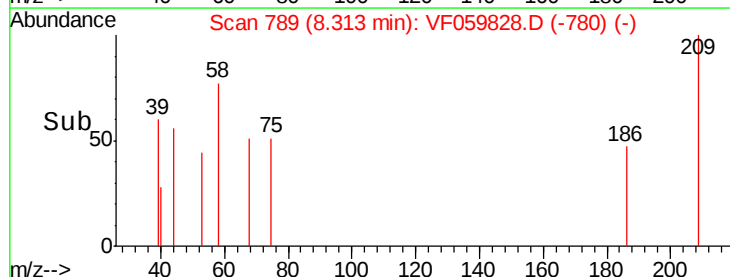
100

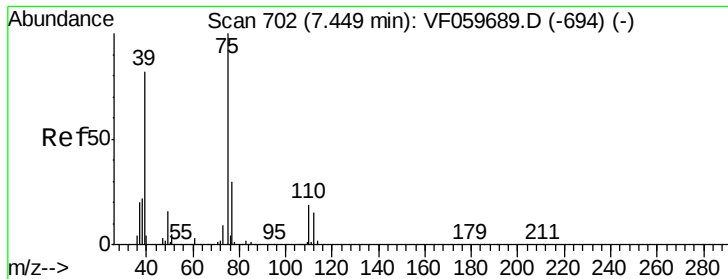
50

0

8.28 8.30 8.32 8.34

Time-->





#54

cis-1,3-Dichloropropene

Concen: 1.32 ug/l

RT: 7.44 min Scan# 700

Delta R.T. -0.01 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampleId :

UST-W

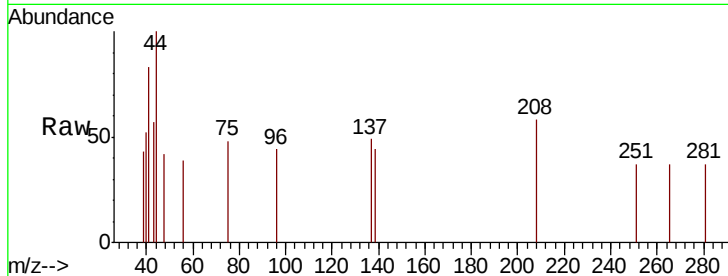
Tot Ion: 75 Resp: 79

Ion Ratio Lower Upper

75 100

77 0.0 24.0 36.0#

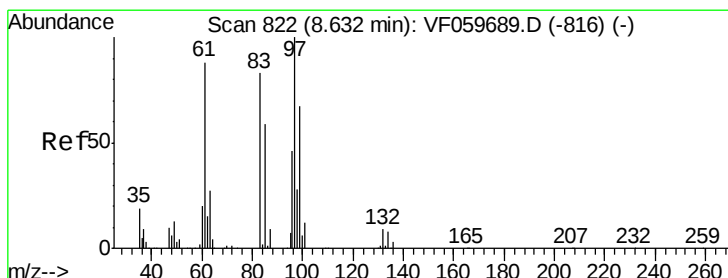
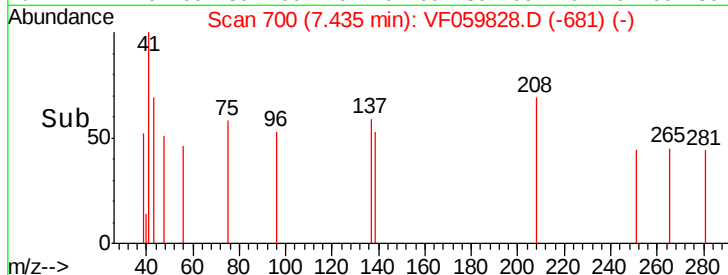
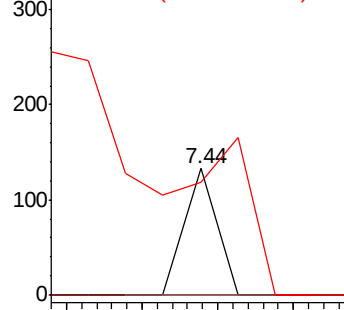
39 89.5 65.4 98.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#55

1,1,2-Trichloroethane

Concen: 2.26 ug/l

RT: 8.71 min Scan# 829

Delta R.T. 0.08 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Tgt Ion: 97 Resp: 64

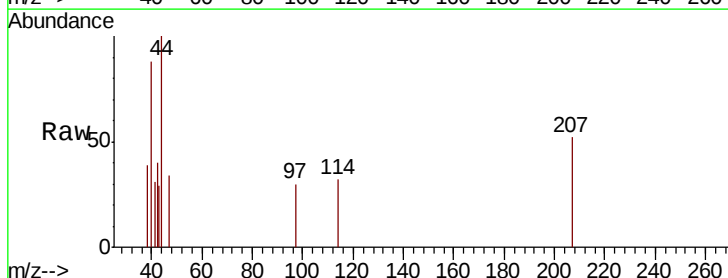
Ion Ratio Lower Upper

97 100

83 0.0 66.6 100.0#

85 0.0 47.4 71.0#

99 0.0 53.2 79.8#

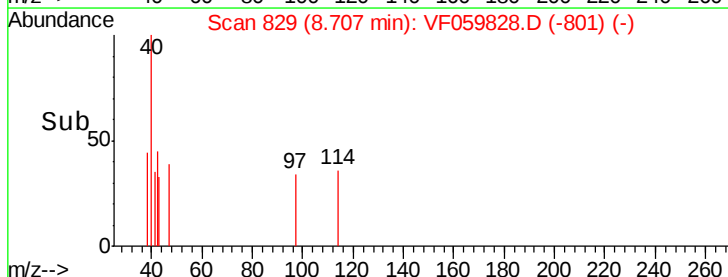
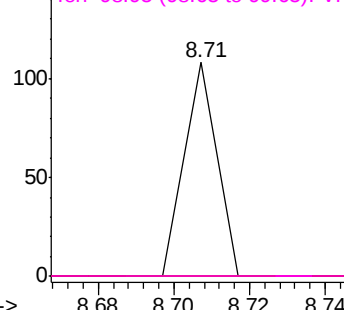


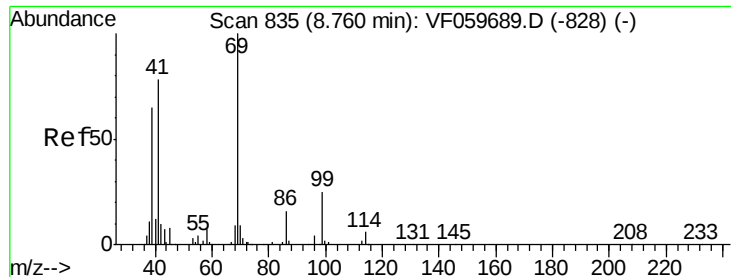
Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0





#56

Ethyl methacrylate

Concen: 4.51 ug/l

RT: 8.85 min Scan# 843

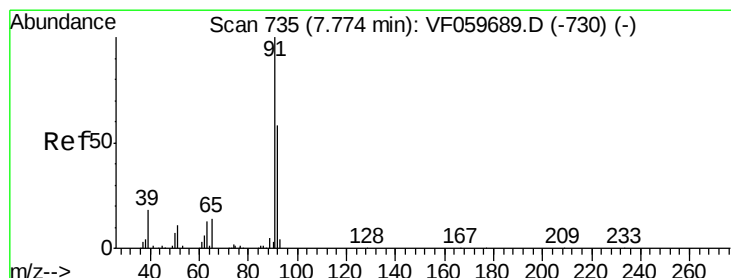
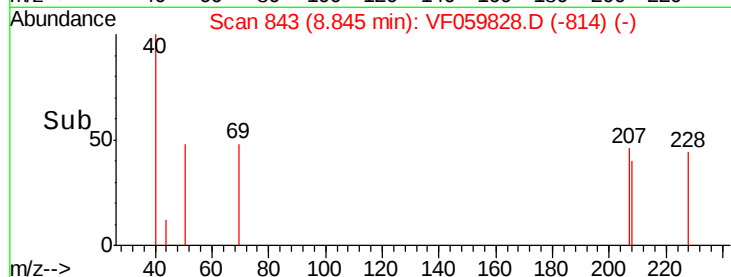
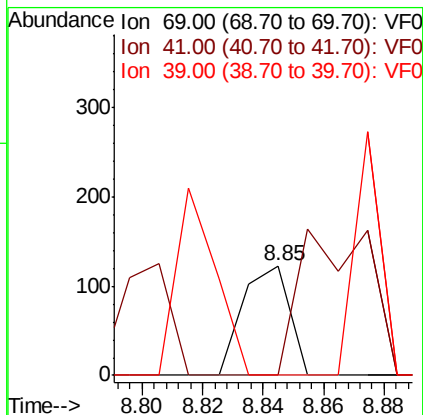
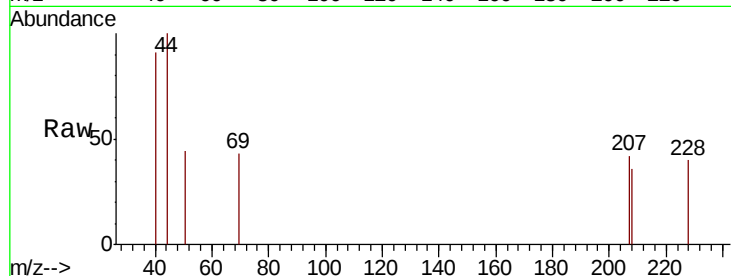
Delta R.T. 0.09 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :
MSVOA_F
ClientSampled :
UST-W

Tot Ion:	69	Resp:	133
Ion	Ratio	Lower	Upper
69	100		
41	0.0	62.3	93.5#
39	0.0	52.4	78.6#



#58

2-Chloroethyl Vinyl ether

Concen: 67.28 ug/l

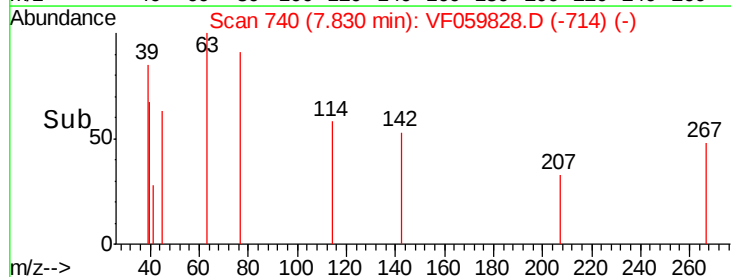
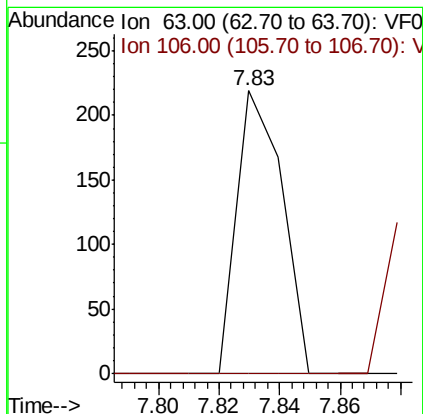
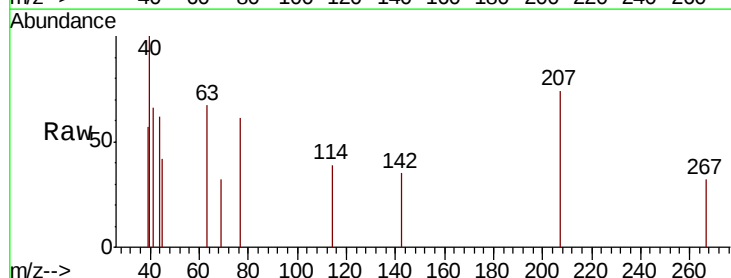
RT: 7.83 min Scan# 740

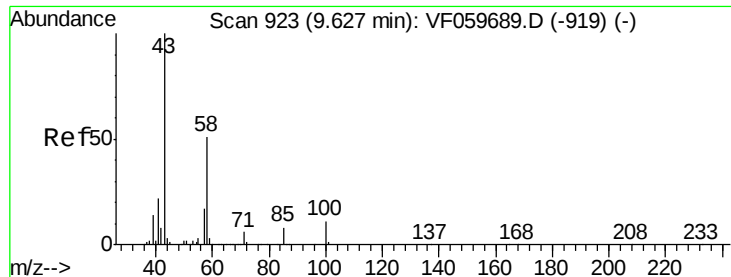
Delta R.T. 0.06 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Tgt Ion:	63	Resp:	229
Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0

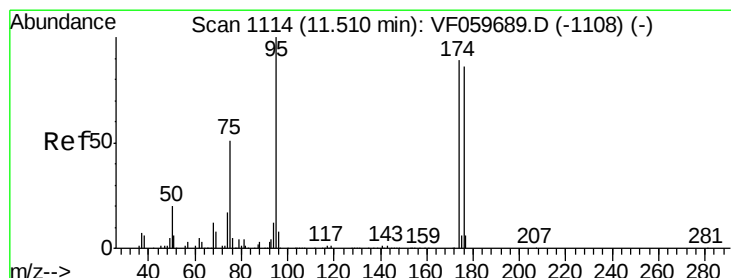
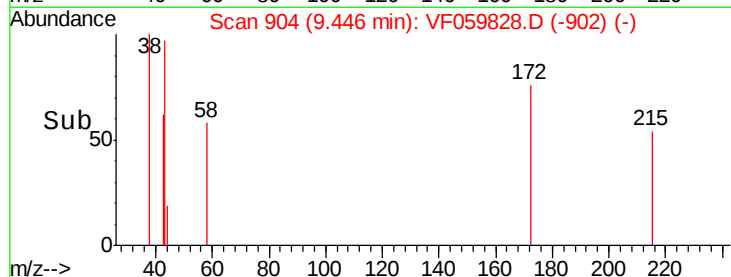
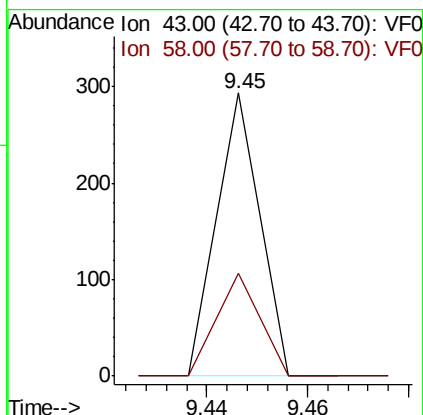
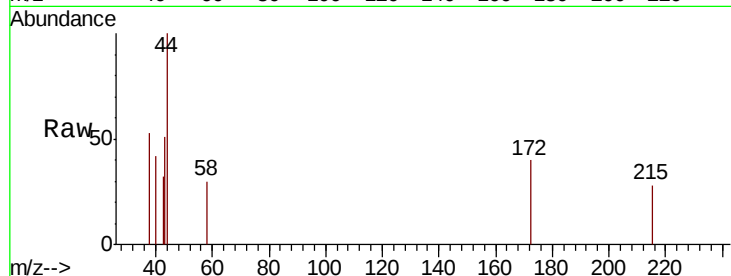




#59
2-Hexanone
Concen: 9.18 ug/l
RT: 9.45 min Scan# 904
Delta R.T. -0.18 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

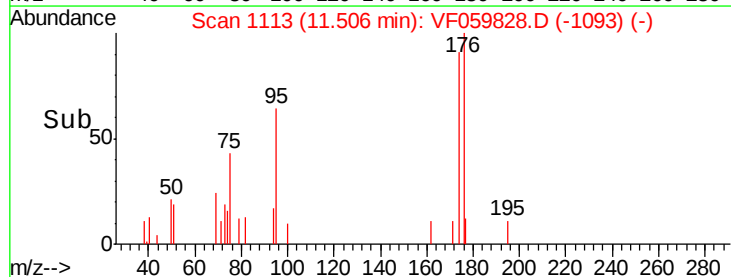
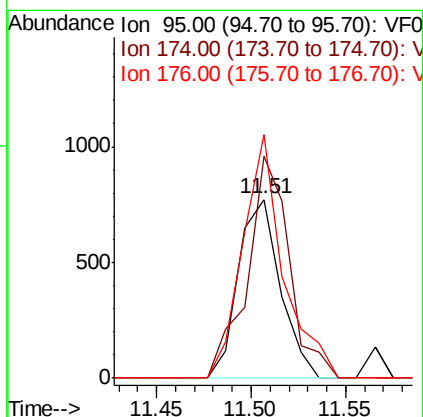
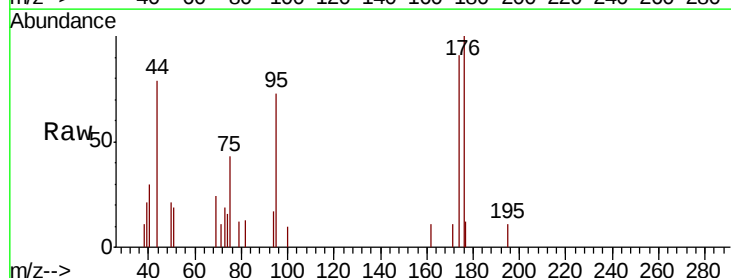
Instrument :
MSVOA_F
ClientSampleId :
UST-W

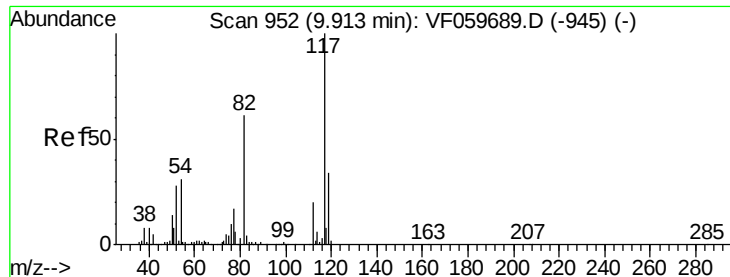
Tot Ion: 43 Resp: 173
Ion Ratio Lower Upper
43 100
58 36.5 23.3 69.8



#62
4-Bromofluorobenzene
Concen: 17.10 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Tgt Ion: 95 Resp: 1185
Ion Ratio Lower Upper
95 100
174 123.9 0.0 178.4
176 136.1 0.0 173.0

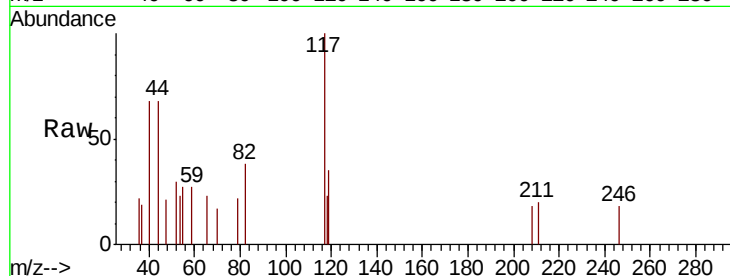




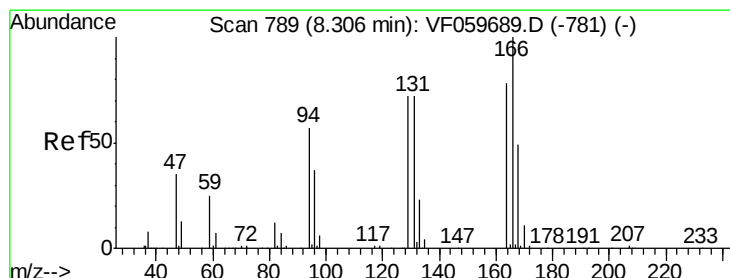
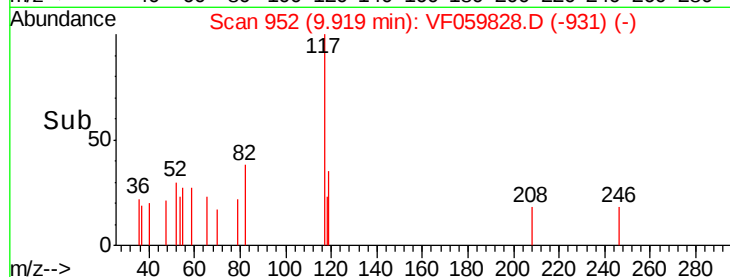
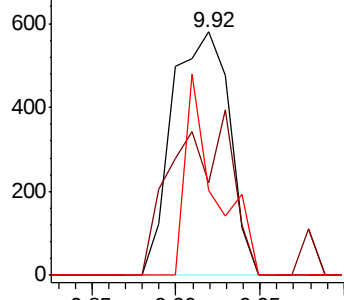
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Instrument :
MSVOA_F
ClientSampleId :
UST-W

Tot Ion:117 Resp: 1365
Ion Ratio Lower Upper
117 100
82 37.9 49.0 73.4#
119 34.8 27.3 40.9

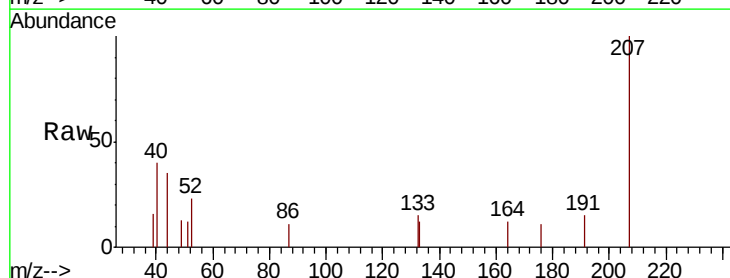


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

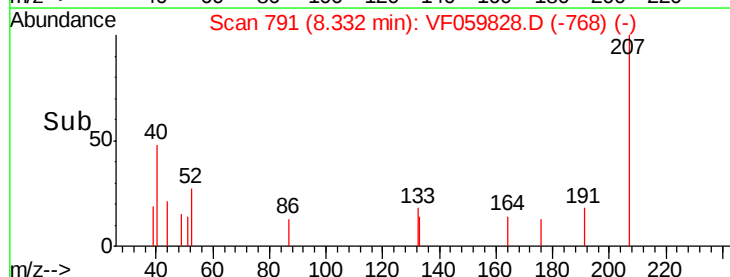
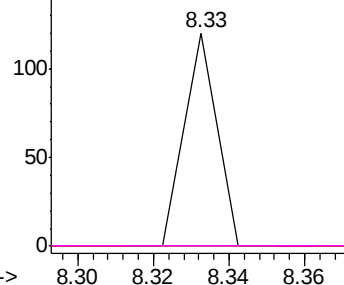


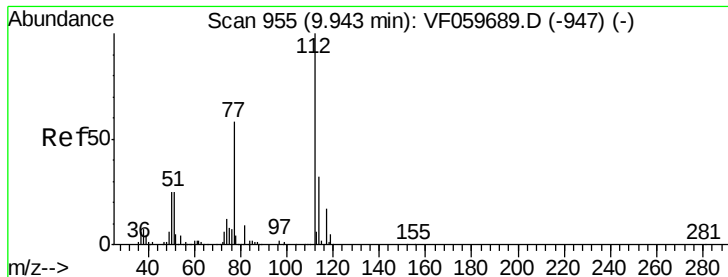
#64
Tetrachloroethene
Concen: 3.60 ug/l
RT: 8.33 min Scan# 791
Delta R.T. 0.03 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Tgt Ion:164 Resp: 71
Ion Ratio Lower Upper
164 100
166 0.0 102.1 153.1#
129 0.0 73.8 110.6#
131 0.0 73.1 109.7#



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

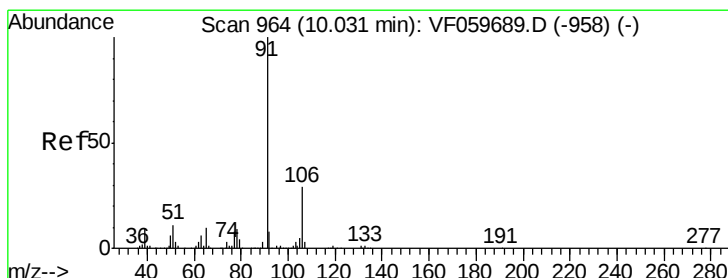
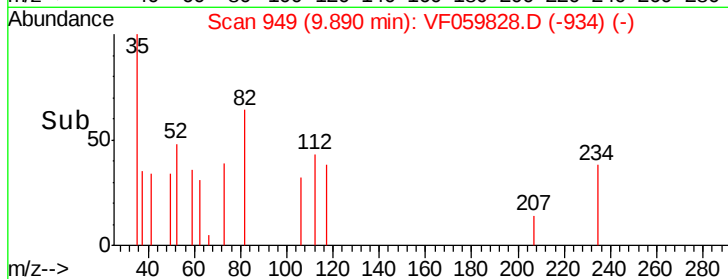
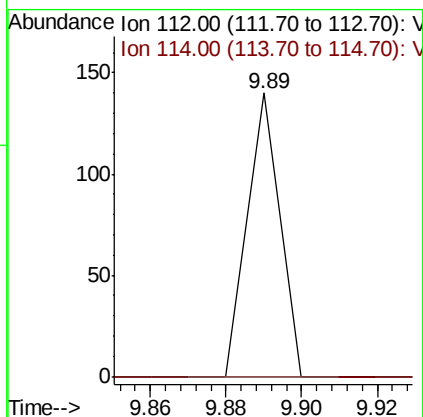
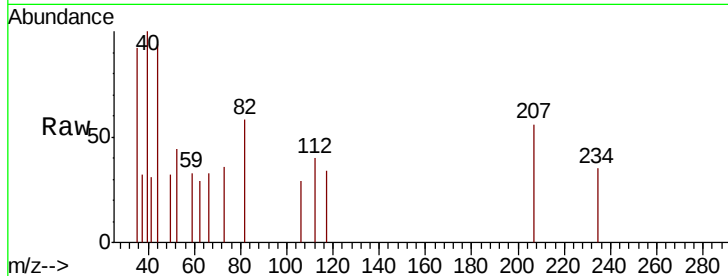




#65
Chlorobenzene
Concen: 3.04 ug/l
RT: 9.89 min Scan# 949
Delta R.T. -0.05 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

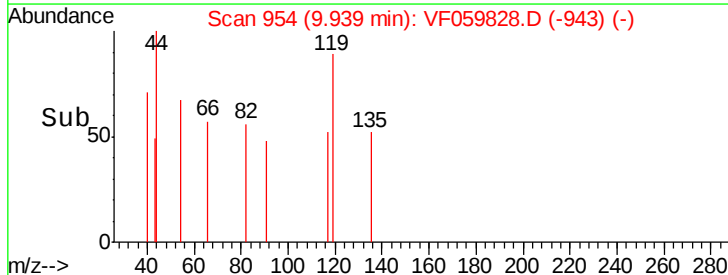
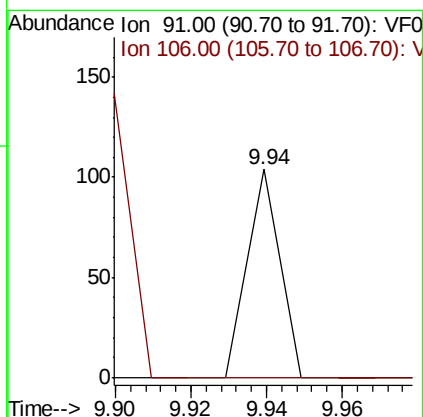
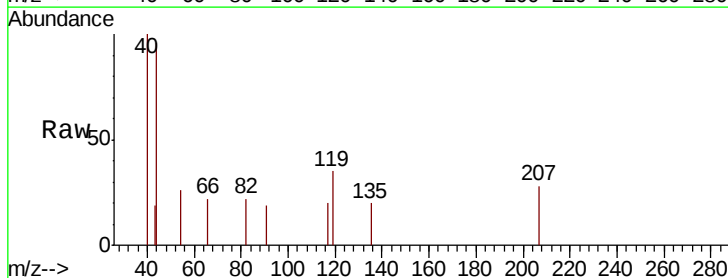
Instrument :
MSVOA_F
ClientSampleId :
UST-W

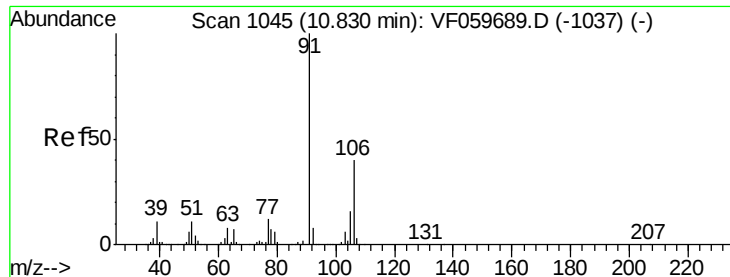
Tot Ion:112 Resp: 83
Ion Ratio Lower Upper
112 100
114 0.0 25.6 38.4#



#67
Ethyl Benzene
Concen: 1.31 ug/l
RT: 9.94 min Scan# 954
Delta R.T. -0.09 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Tgt Ion: 91 Resp: 62
Ion Ratio Lower Upper
91 100
106 0.0 22.9 34.3#

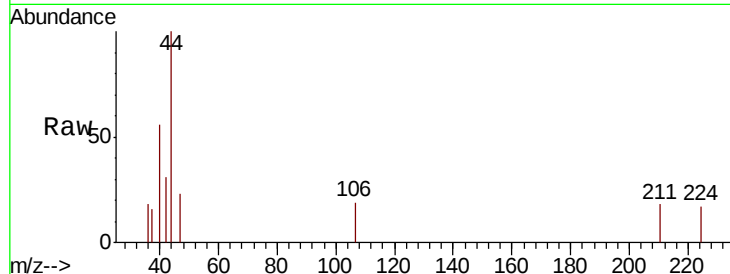




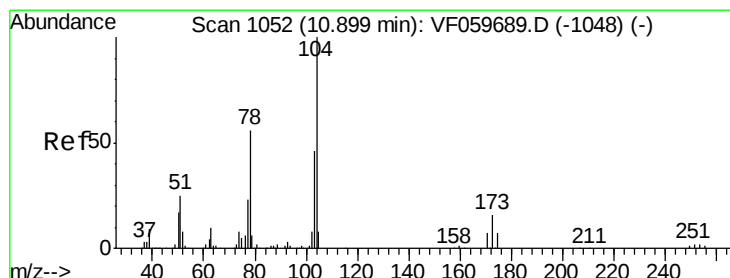
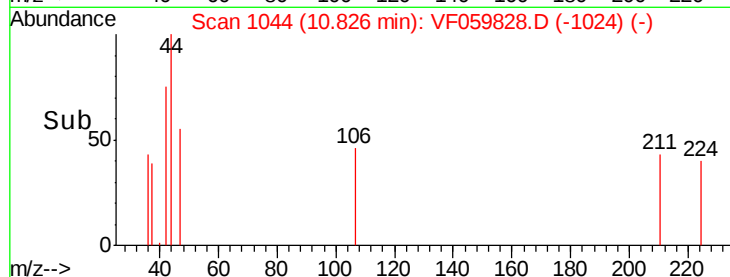
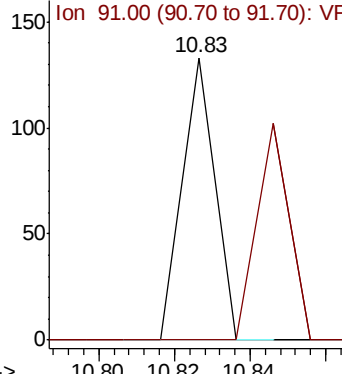
#69
o-Xylene
Concen: 4.54 ug/l
RT: 10.83 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Instrument :
MSVOA_F
ClientSampled :
UST-W

Tot Ion:106 Resp: 79
Ion Ratio Lower Upper
106 100
91 0.0 124.6 373.7#

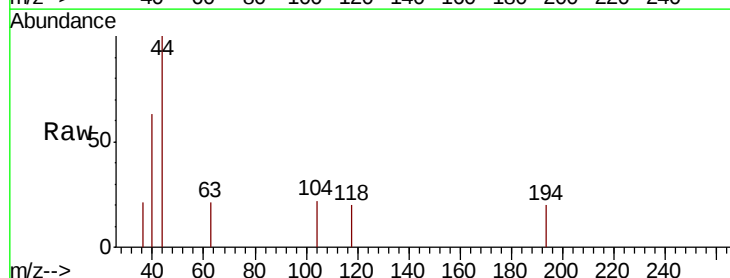


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

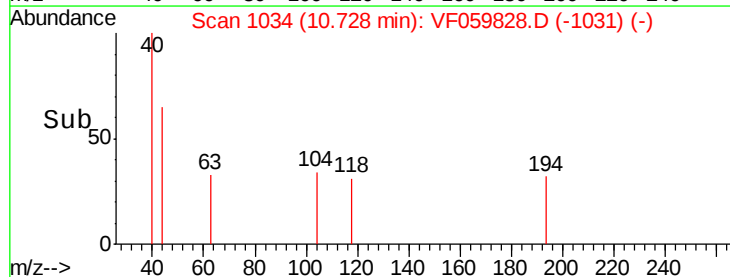
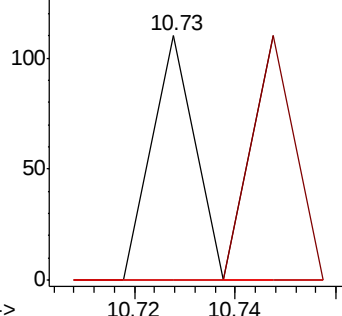


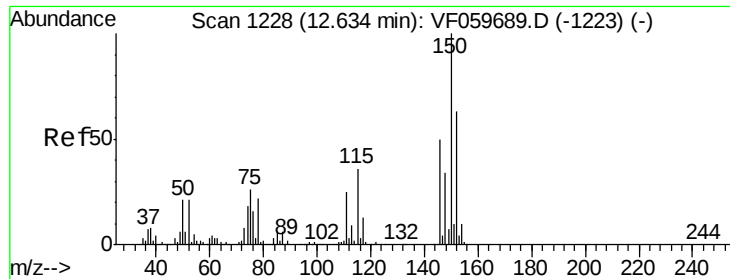
#70
Styrene
Concen: 2.46 ug/l
RT: 10.73 min Scan# 1034
Delta R.T. -0.17 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Tgt Ion:104 Resp: 65
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



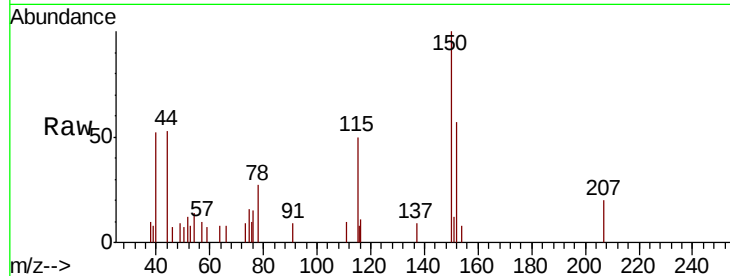


#72

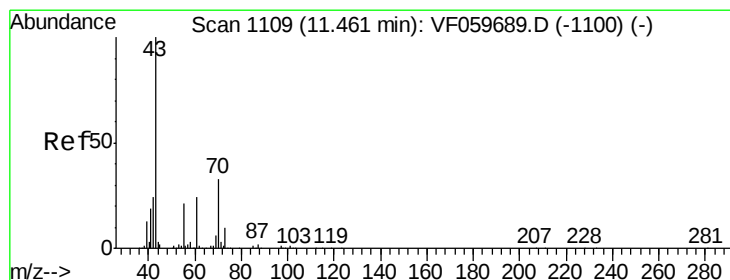
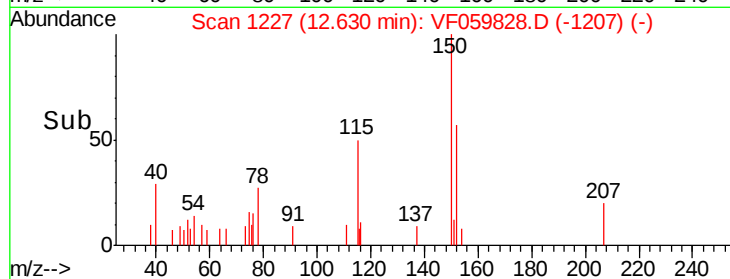
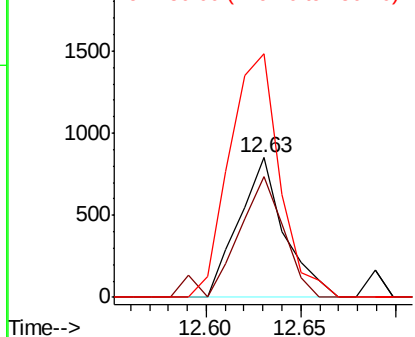
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Instrument :
MSVOA_F
ClientSampleId :
UST-W

Tot Ion:152 Resp: 1430
Ion Ratio Lower Upper
152 100
115 86.7 28.2 84.6#
150 174.4 0.0 316.2



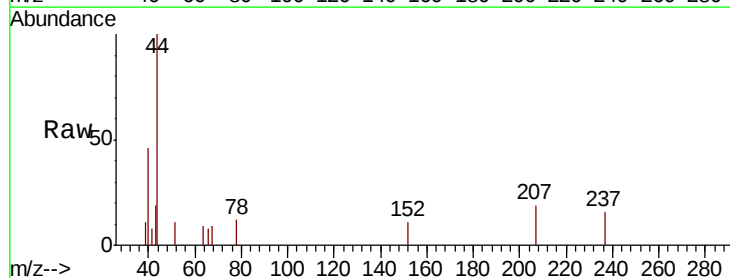
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



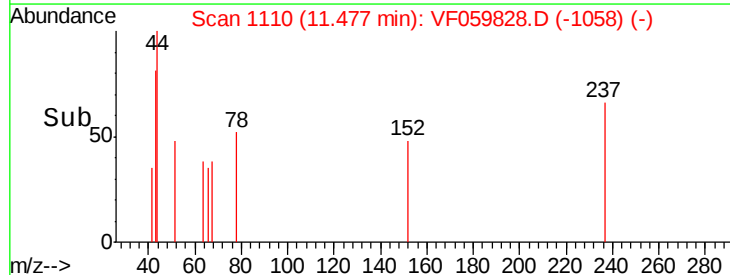
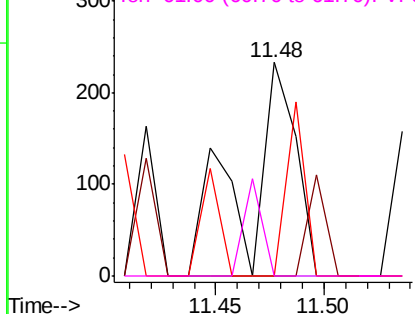
#74

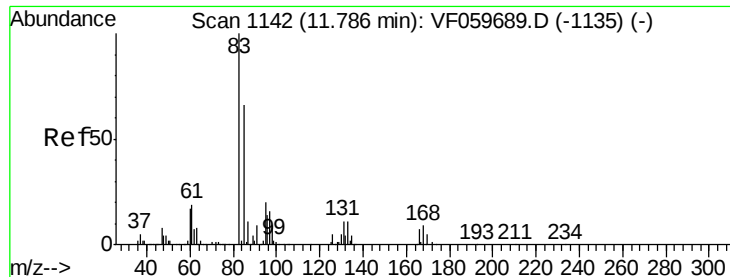
N-ethyl acetate
Concen: 15.71 ug/l
RT: 11.48 min Scan# 1110
Delta R.T. 0.02 min
Lab File: VF059828.D
Acq: 3 Aug 2018 9:38

Tgt Ion: 43 Resp: 372
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





#75

1,1,2,2-Tetrachloroethane

Concen: 3.68 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.09 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampled :

UST-W

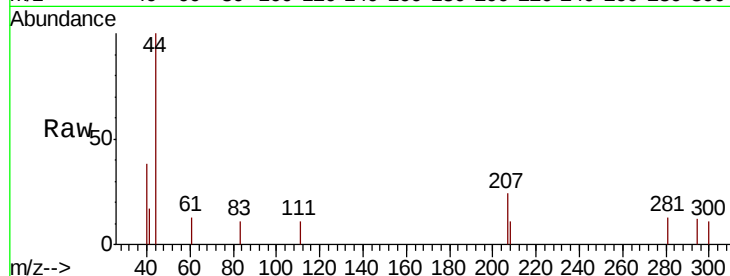
Tot Ion: 83 Resp: 65

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.3#

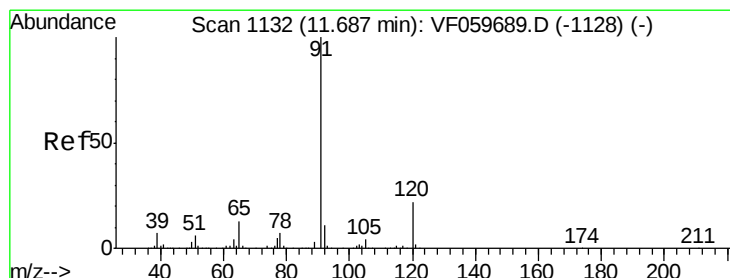
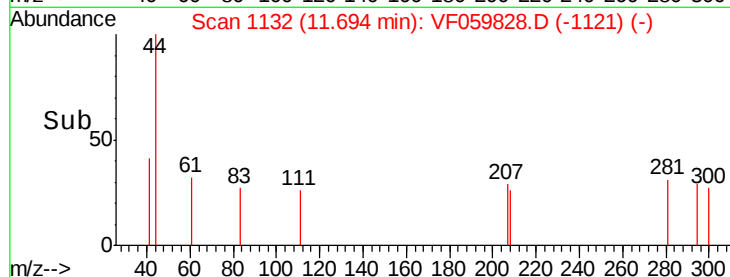
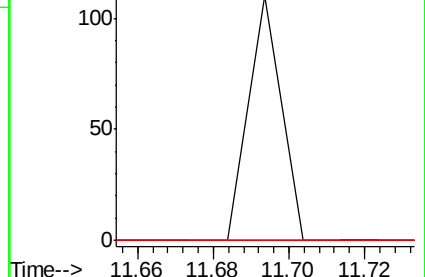
85 0.0 32.8 98.3#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#78

n-propylbenzene

Concen: Below Cal

RT: 11.79 min Scan# 1142

Delta R.T. 0.11 min

Lab File: VF059828.D

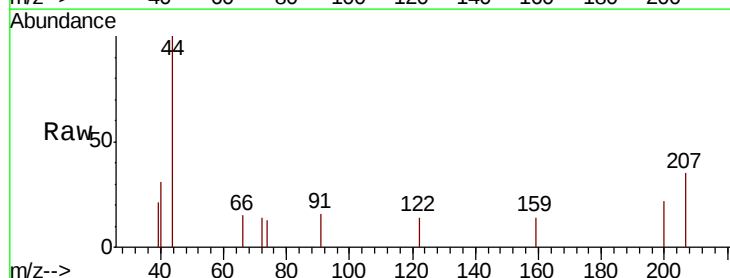
Acq: 3 Aug 2018 9:38

Tgt Ion: 91 Resp: 76

Ion Ratio Lower Upper

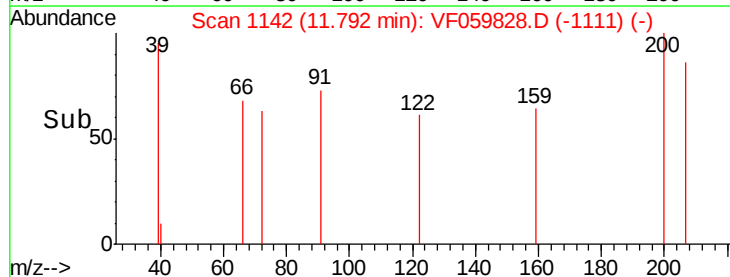
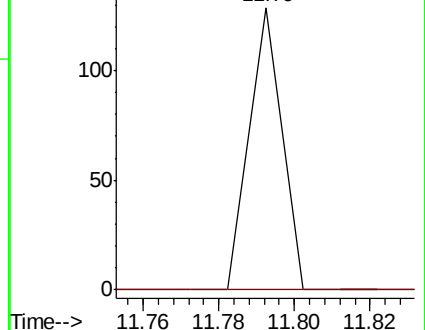
91 100

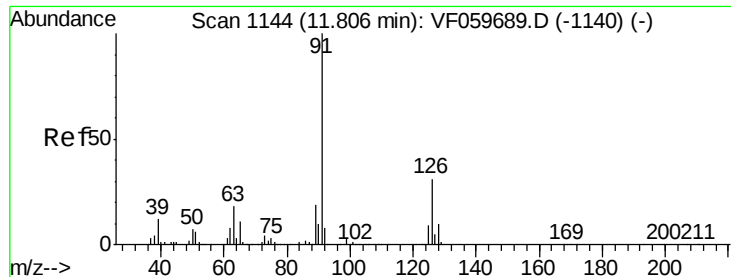
120 0.0 11.0 33.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.79 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampled :

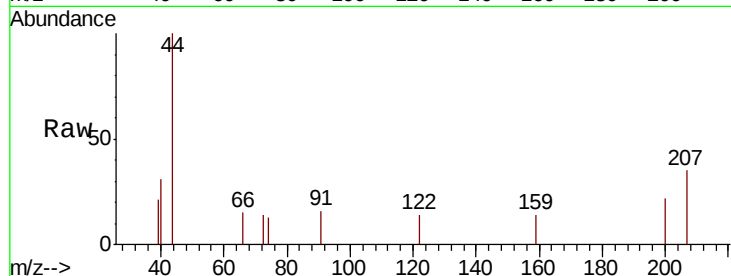
UST-W

Tot Ion: 91 Resp: 76

Ion Ratio Lower Upper

91 100

126 0.0 15.4 46.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.79

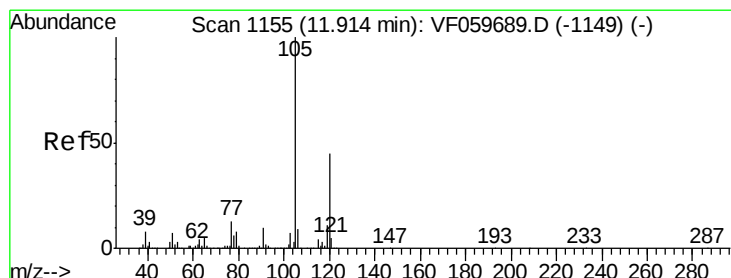
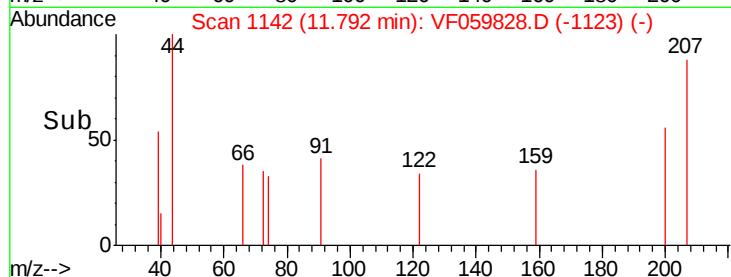
100

50

0

Time-->

11.76 11.78 11.80 11.82



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 11.97 min Scan# 1160

Delta R.T. 0.06 min

Lab File: VF059828.D

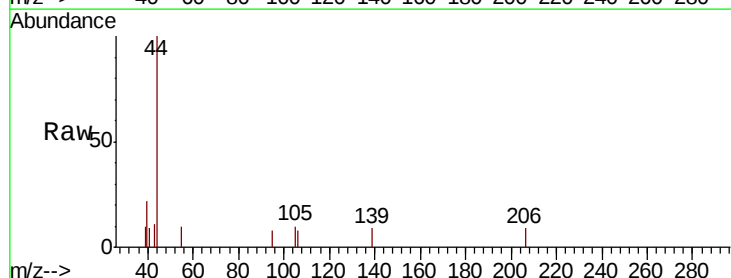
Acq: 3 Aug 2018 9:38

Tgt Ion:105 Resp: 72

Ion Ratio Lower Upper

105 100

120 0.0 22.7 68.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.97

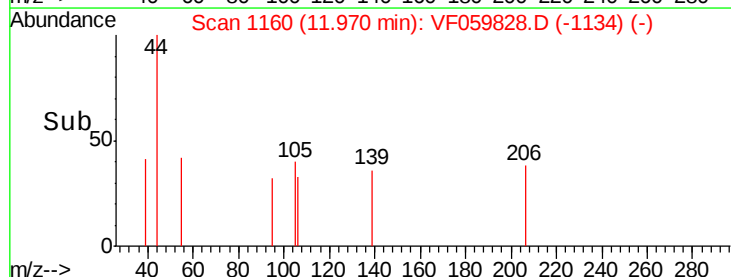
100

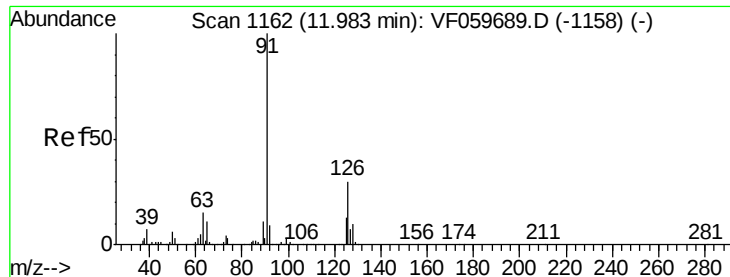
50

0

Time-->

11.94 11.96 11.98 12.00





#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.04 min Scan# 1167

Delta R.T. 0.06 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampleId :

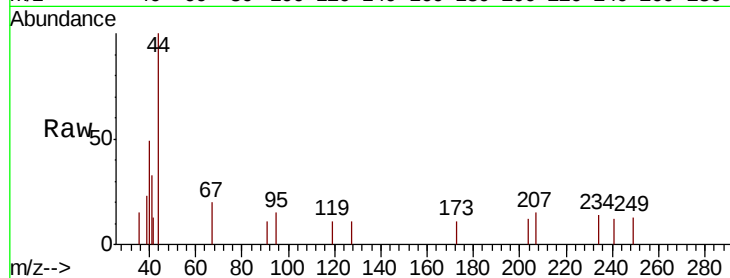
UST-W

Tot Ion: 91 Resp: 60

Ion Ratio Lower Upper

91 100

126 0.0 15.2 45.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

12.04

100

80

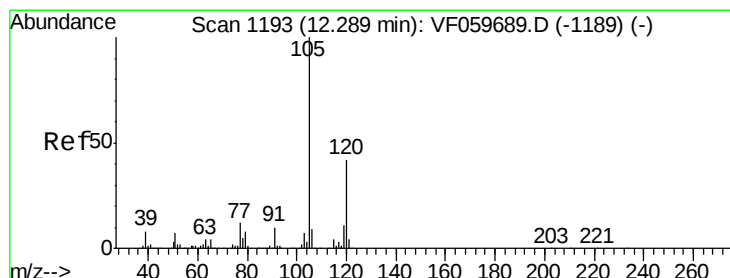
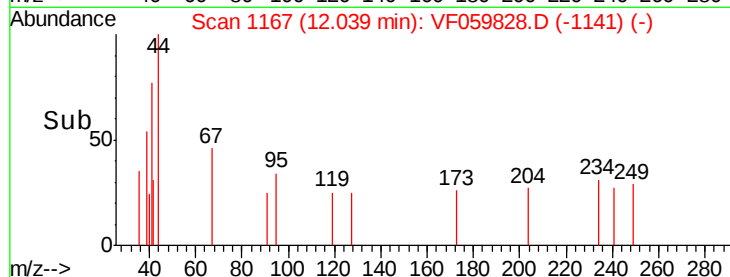
60

40

20

0

Time--> 12.00 12.02 12.04 12.06



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 12.33 min Scan# 1197

Delta R.T. 0.05 min

Lab File: VF059828.D

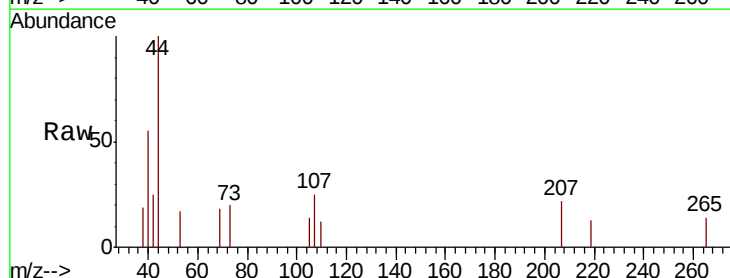
Acq: 3 Aug 2018 9:38

Tgt Ion: 105 Resp: 69

Ion Ratio Lower Upper

105 100

120 0.0 21.1 63.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

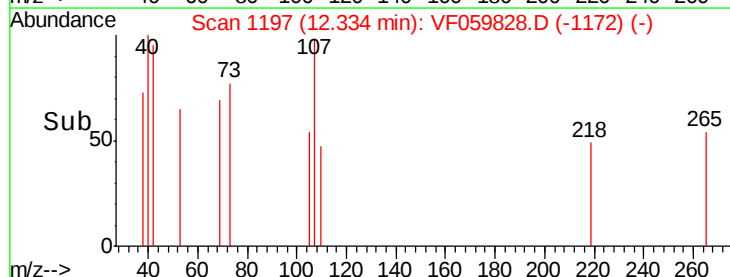
12.33

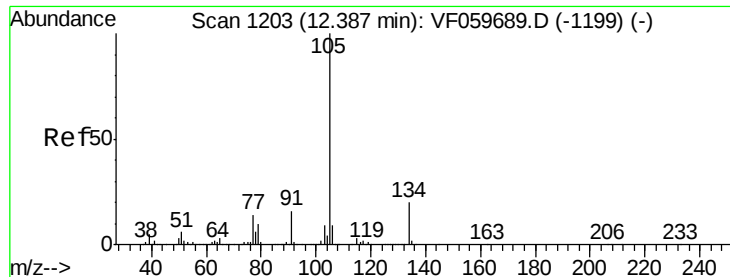
100

50

0

Time--> 12.30 12.32 12.34 12.36

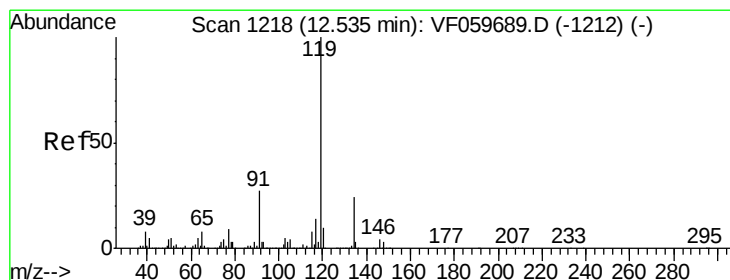
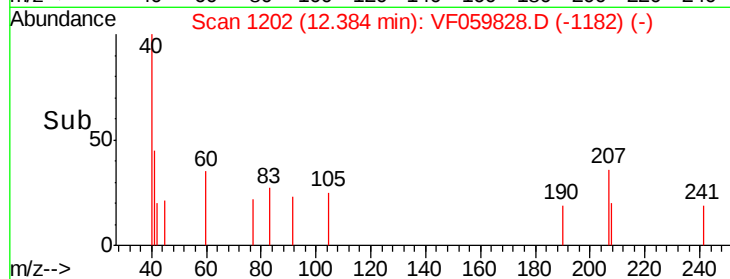
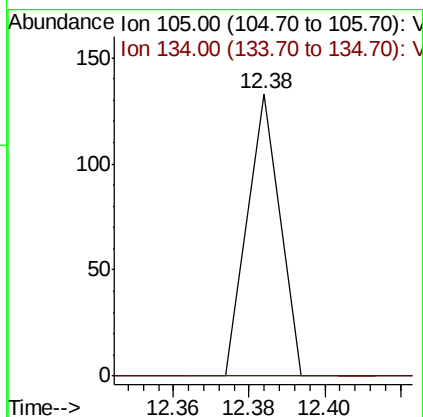
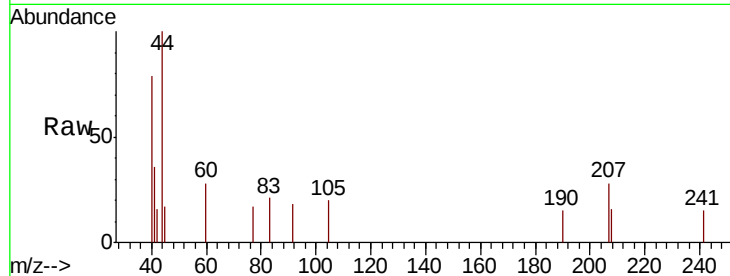




#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 12.38 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF059828.D
 Acq: 3 Aug 2018 9:38

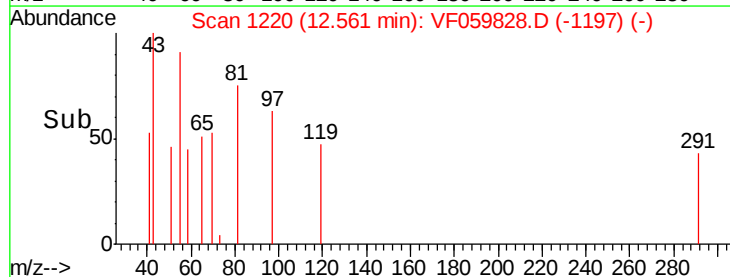
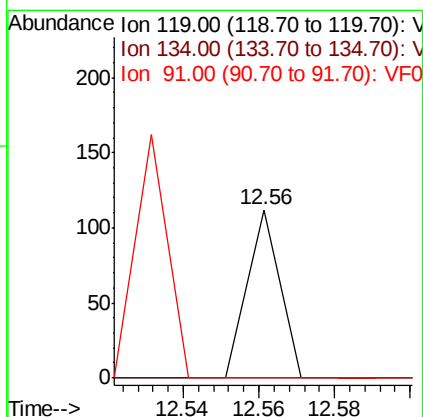
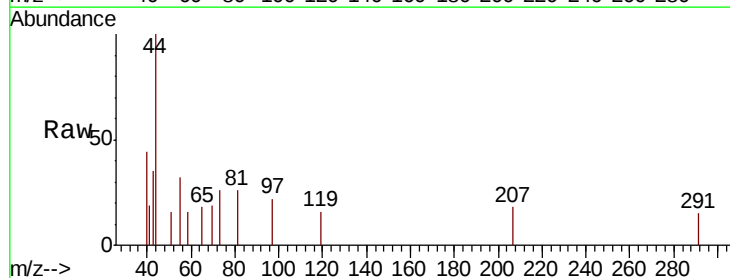
Instrument :
 MSVOA_F
 ClientSampled :
 UST-W

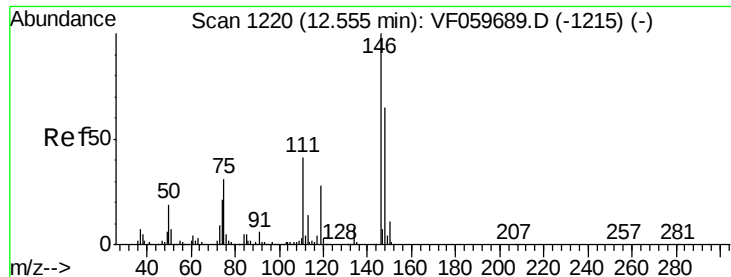
Tot Ion:105 Resp: 79
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#



#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.56 min Scan# 1220
 Delta R.T. 0.03 min
 Lab File: VF059828.D
 Acq: 3 Aug 2018 9:38

Tgt Ion:119 Resp: 66
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.2 36.6#
 91 0.0 13.4 40.2#





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.57 min Scan# 1221

Delta R.T. 0.02 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

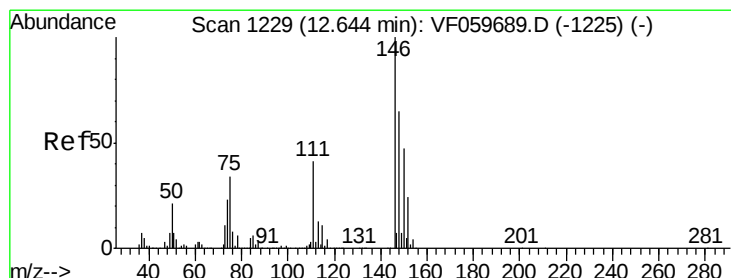
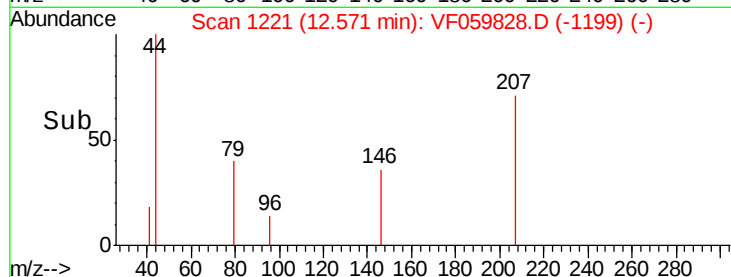
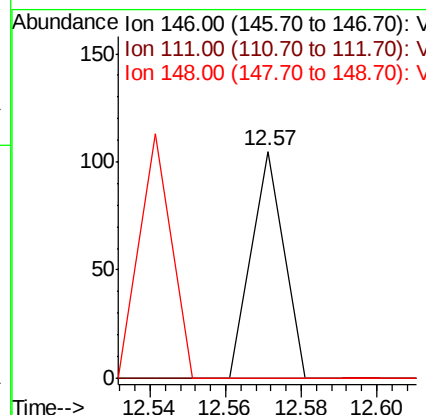
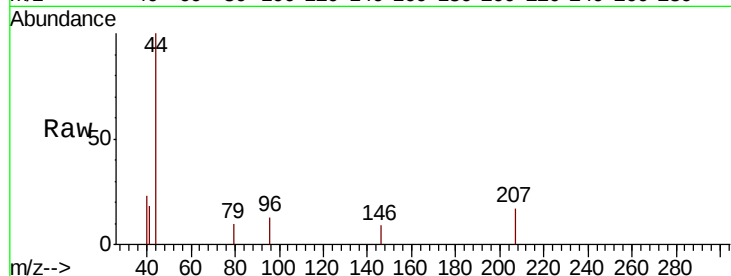
Instrument :

MSVOA_F

ClientSampled :

UST-W

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: Below Cal

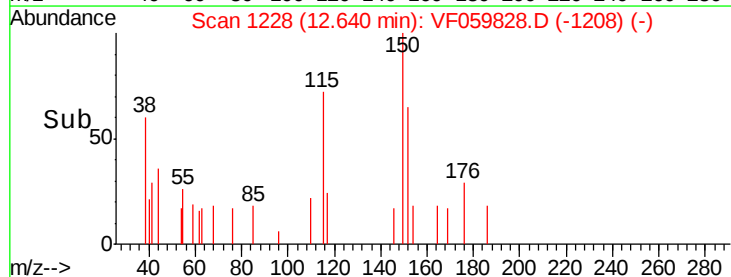
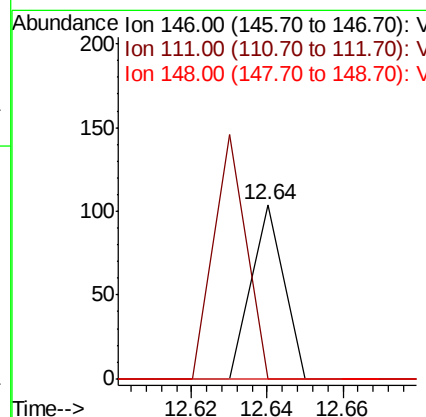
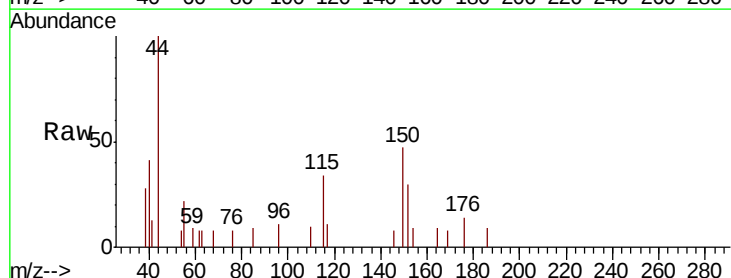
RT: 12.64 min Scan# 1228

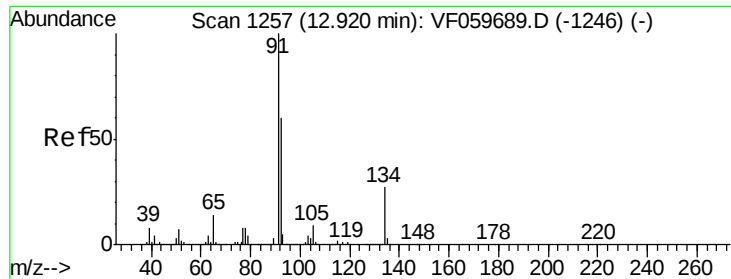
Delta R.T. -0.00 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

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: Below Cal

RT: 12.91 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampleId :

UST-W

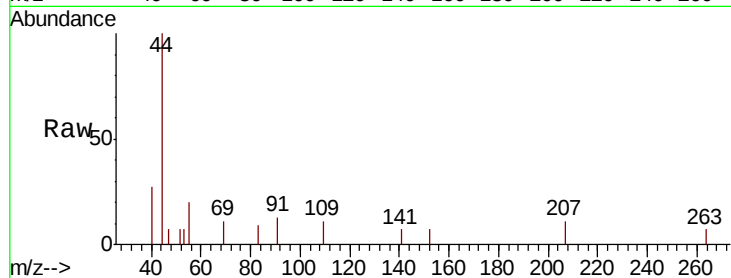
Tot Ion: 91 Resp: 118

Ion Ratio Lower Upper

91 100

92 0.0 30.1 90.3#

134 0.0 13.7 41.0#

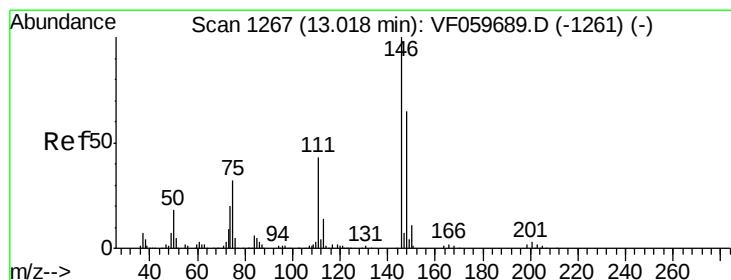
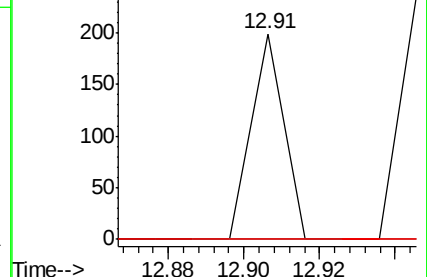
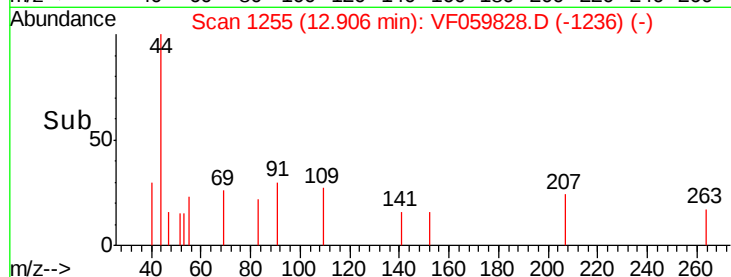


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

Time-->



#91

1,2-Dichlorobenzene

Concen: Below Cal

RT: 12.88 min Scan# 1252

Delta R.T. -0.14 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

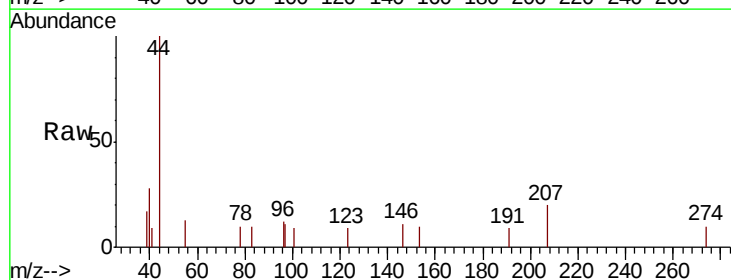
Tgt Ion: 146 Resp: 75

Ion Ratio Lower Upper

146 100

111 0.0 21.6 65.0#

148 0.0 32.3 96.9#

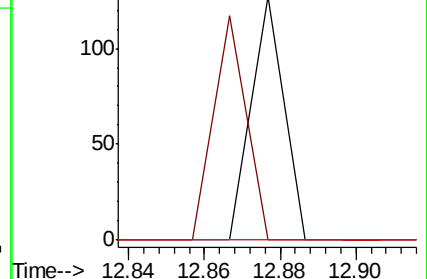
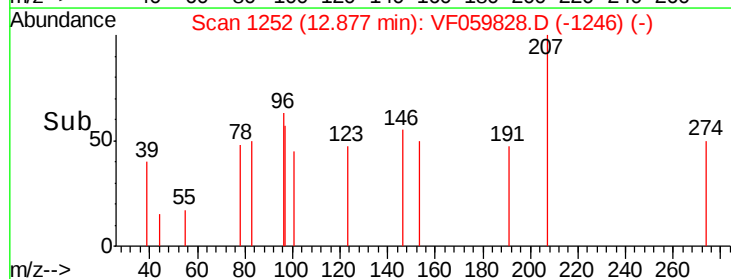


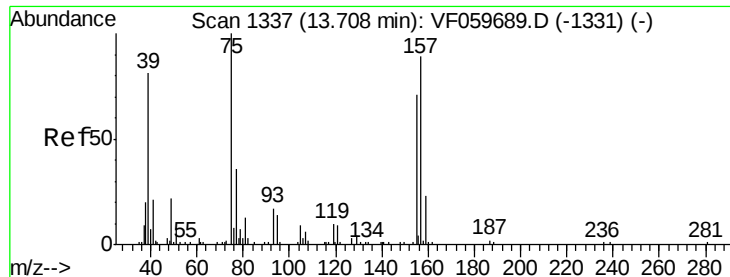
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 21.31 ug/l

RT: 13.73 min Scan# 1339

Delta R.T. 0.03 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

Instrument :

MSVOA_F

ClientSampleId :

UST-W

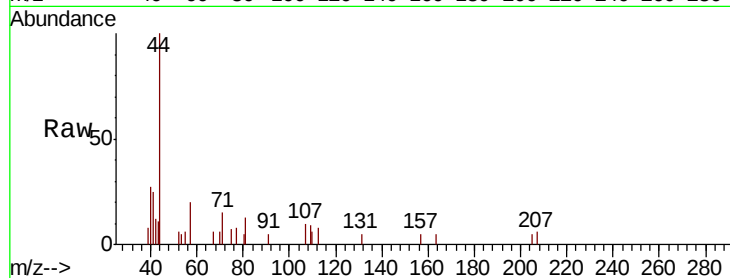
Tot Ion: 75 Resp: 92

Ion Ratio Lower Upper

75 100

155 0.0 35.4 106.2#

157 72.3 44.4 133.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

13.73

150

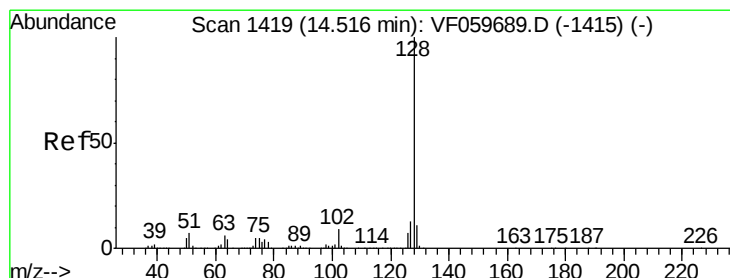
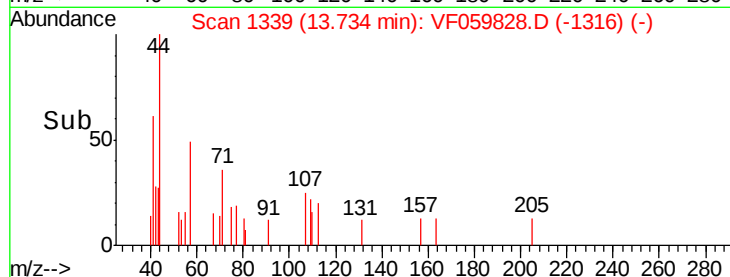
100

50

0

13.70 13.72 13.74 13.76

Time-->



#95

Naphthalene

Concen: 4.27 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF059828.D

Acq: 3 Aug 2018 9:38

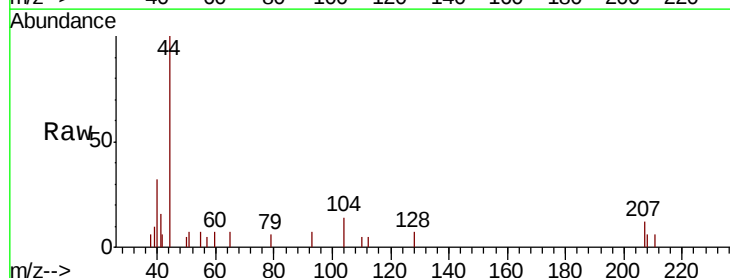
Tgt Ion:128 Resp: 263

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

14.50

200

150

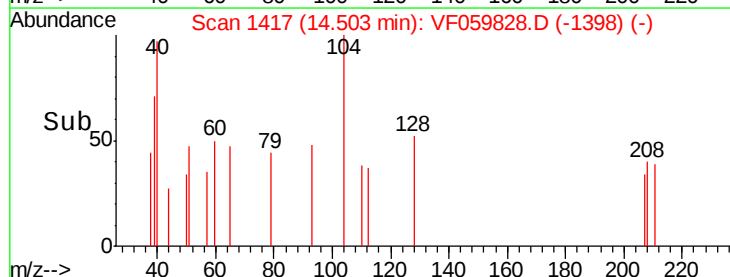
100

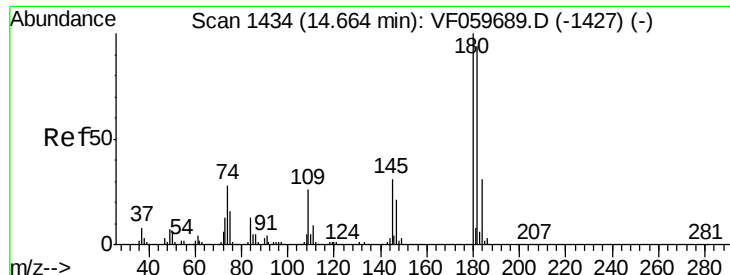
50

0

14.50 14.55

Time-->

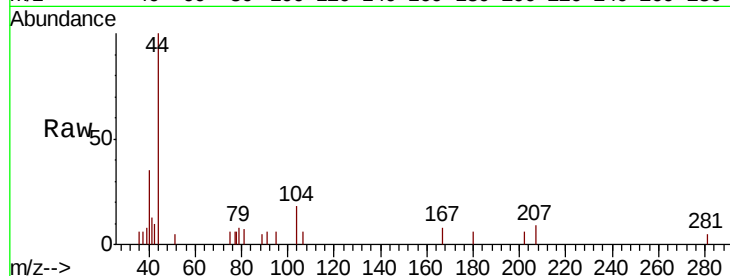




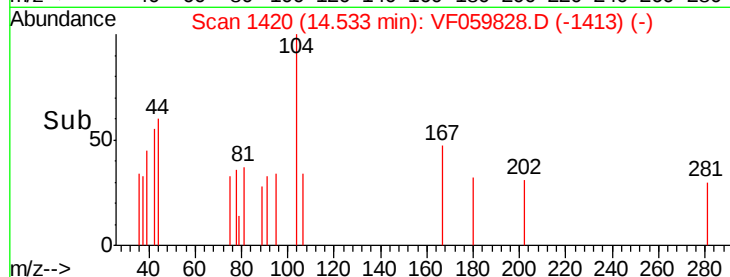
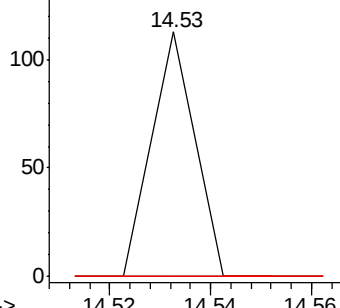
#96
 1,2,3-Trichlorobenzene
 Concen: 1.97 ug/l
 RT: 14.53 min Scan# 1420
 Delta R.T. -0.13 min
 Lab File: VF059828.D
 Acq: 3 Aug 2018 9:38

Instrument :
 MSVOA_F
 ClientSampleId :
 UST-W

Tot 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



Time-->