

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100518\
 Data File : VF060465.D
 Acq On : 5 Oct 2018 20:04
 Operator : VA/AP
 Sample : J5270-06RE
 Misc : 4.99/5mL/MSVOA F/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 STOCK-PILE-CRE

Quant Time: Oct 06 04:37:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	61546	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.74	114	67579	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	18735	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	2517	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	36735	38.14	ug/l	0.00
Spiked Amount			Recovery	=	76.28%	
35) Dibromofluoromethane	4.28	113	38520	60.67	ug/l	0.01
Spiked Amount			Recovery	=	121.34%	
50) Toluene-d8	7.69	98	32071	20.51	ug/l	0.00
Spiked Amount			Recovery	=	41.02%	
62) 4-Bromofluorobenzene	11.50	95	3700	5.18	ug/l	0.01
Spiked Amount			Recovery	=	10.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	818	Below Cal	#	43
3) Chloromethane	1.10	50	1088	1.302	ug/l #	41
8) Diethyl Ether	1.70	74	360	1.302	ug/l	68
11) Tert butyl alcohol	2.66	59	355	6.094	ug/l #	1
13) Acrolein	1.95	56	936	19.980	ug/l	97
14) Allyl chloride	2.19	41	1276	1.067	ug/l #	54
15) Acrylonitrile	3.03	53	702	7.033	ug/l #	67
16) Acetone	2.26	43	3029	Below Cal		97
18) Methyl Acetate	2.53	43	604	Below Cal		94
20) Methylene Chloride	2.27	84	2051	Below Cal	#	64
25) 2-Butanone	4.49	43	769	3.084	ug/l #	60
29) Tetrahydrofuran	4.26	42	707	2.998	ug/l #	48
41) Methacrylonitrile	4.92	41	471	2.784	ug/l #	32
48) Methyl methacrylate	6.86	41	408	1.474	ug/l	88
49) 1,4-Dioxane	6.86	88	76	31.846	ug/l #	3
51) 4-Methyl-2-Pentanone	8.39	43	1876	6.835	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.72	63	112	2.710	ug/l	100
59) 2-Hexanone	9.61	43	3950	19.620	ug/l #	61
68) m/p-Xylenes	10.25	106	296	1.177	ug/l #	59
73) Isopropylbenzene	11.21	105	548	2.765	ug/l #	51
74) N-amyl acetate	11.45	43	1146	25.196	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	11.87	83	66	1.827	ug/l #	22
76) 1,2,3-Trichloropropane	11.81	75	145	5.451	ug/l	75
77) Bromobenzene	11.57	156	77	1.738	ug/l #	34
78) n-propylbenzene	11.67	91	1269	5.282	ug/l	93
79) 2-Chlorotoluene	11.80	91	464	3.302	ug/l #	61
80) 1,3,5-Trimethylbenzene	11.91	105	626	3.718	ug/l	71
81) trans-1,4-Dichloro-2-buten	11.97	75	66	5.597	ug/l #	15
82) 4-Chlorotoluene	11.97	91	839	5.835	ug/l	93
83) tert-Butylbenzene	12.20	119	376	2.264	ug/l #	84
84) 1,2,4-Trimethylbenzene	12.27	105	997	5.971	ug/l	68
85) sec-Butylbenzene	12.37	105	880	3.839	ug/l #	58
86) p-Isopropyltoluene	12.54	119	811	4.330	ug/l #	64
87) 1,3-Dichlorobenzene	12.55	146	442	5.302	ug/l	74

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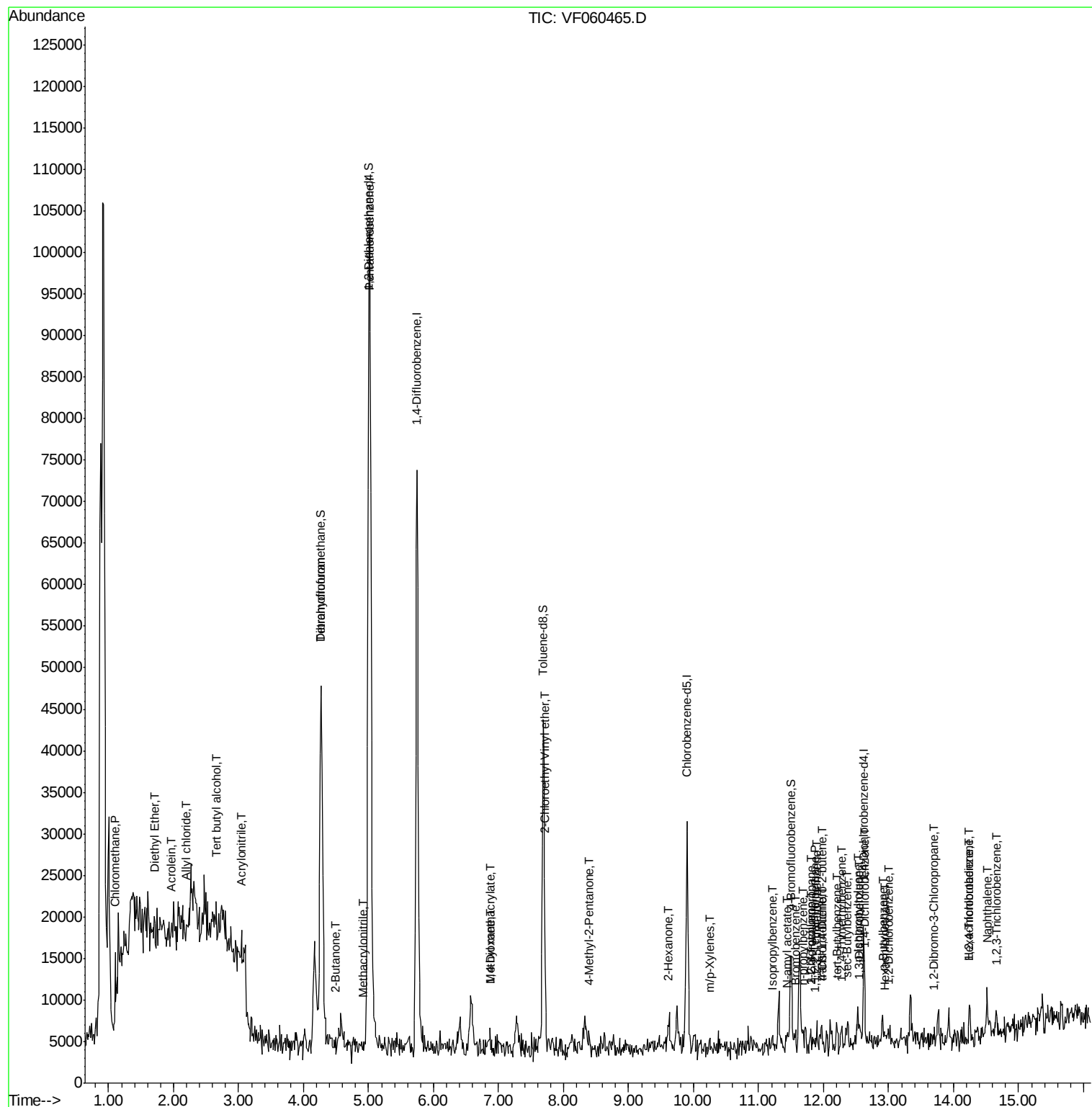
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) 1,4-Dichlorobenzene	12.64	146	476	5.791	ug/l	72
89) n-Butylbenzene	12.91	91	1269	6.403	ug/l	77
90) Hexachloroethane	12.95	117	62	1.281	ug/l #	27
91) 1,2-Dichlorobenzene	13.00	146	525	6.573	ug/l #	45
92) 1,2-Dibromo-3-Chloropropan	13.69	75	321	45.827	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.25	180	784	13.132	ug/l #	54
94) Hexachlorobutadiene	14.24	225	154	3.696	ug/l #	17
95) Naphthalene	14.51	128	2220	20.798	ug/l #	67
96) 1,2,3-Trichlorobenzene	14.67	180	218	3.895	ug/l #	84

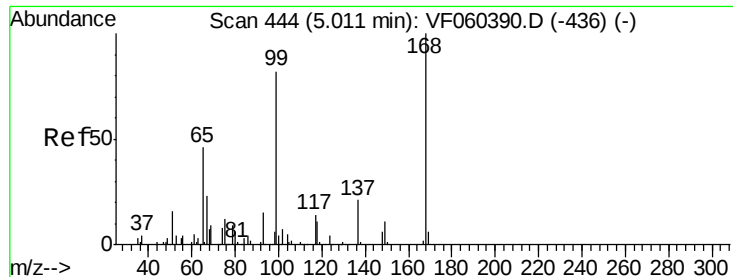
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

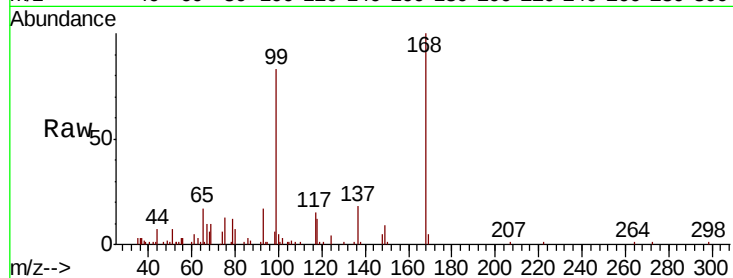
STOCK-PILE-CRE

Tot Ion:168 Resp: 61546

Ion Ratio Lower Upper

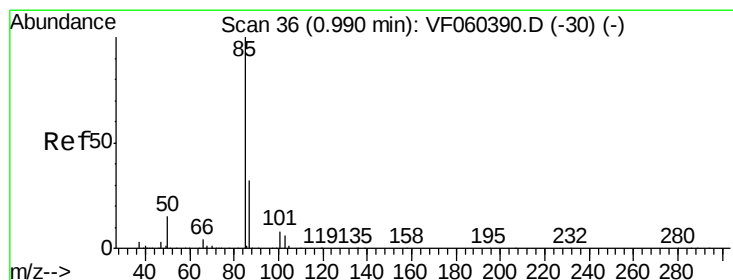
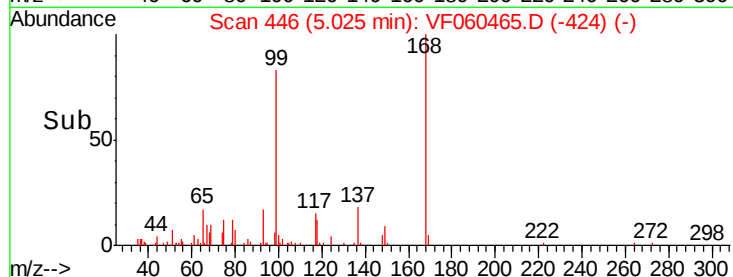
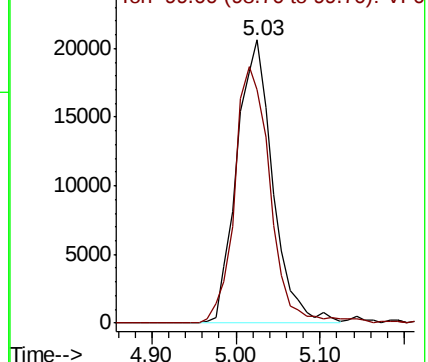
168 100

99 82.6 65.3 97.9



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# 37

Delta R.T. 0.00 min

Lab File: VF060465.D

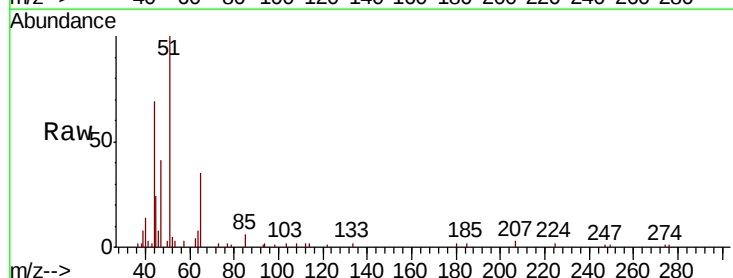
Acq: 5 Oct 2018 20:04

Tgt Ion: 85 Resp: 818

Ion Ratio Lower Upper

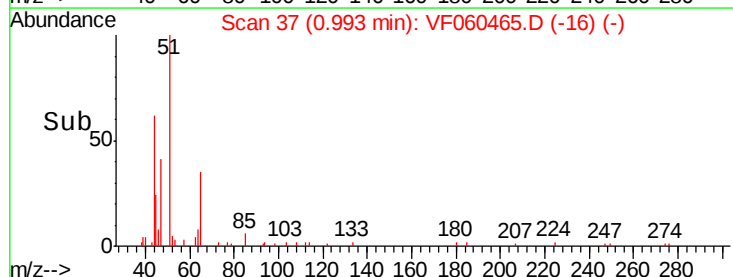
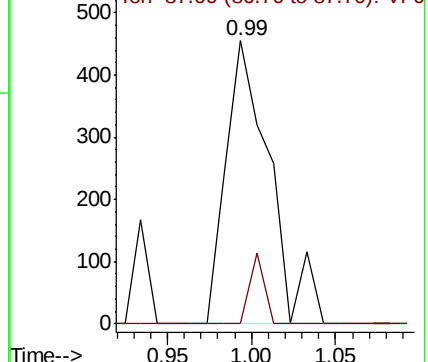
85 100

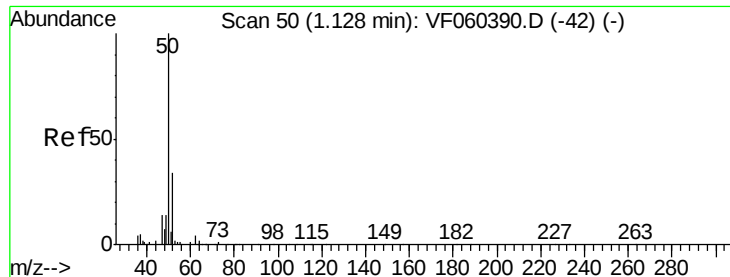
87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 1.302 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.03 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

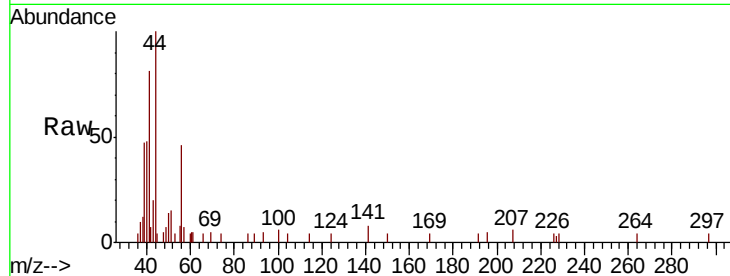
STOCK-PILE-CRE

Tot Ion: 50 Resp: 1088

Ion Ratio Lower Upper

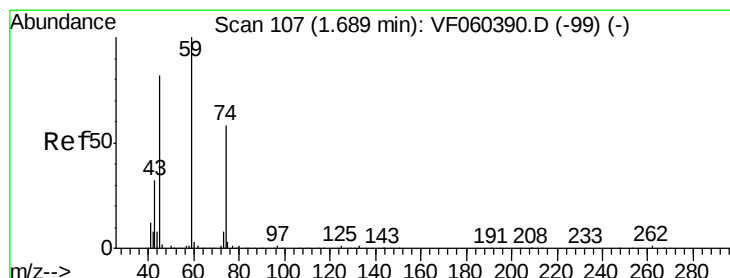
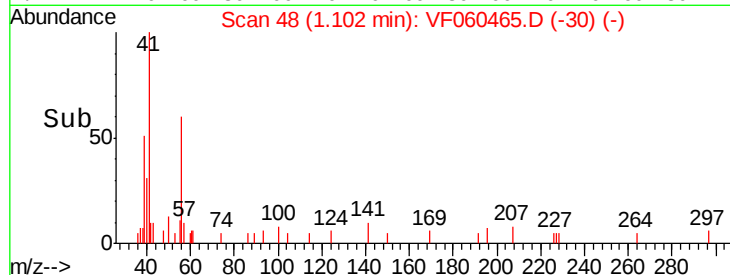
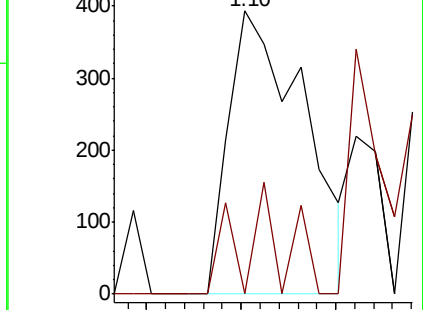
50 100

52 0.0 26.9 40.3#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#8

Diethyl Ether

Concen: 1.302 ug/l

RT: 1.70 min Scan# 109

Delta R.T. 0.01 min

Lab File: VF060465.D

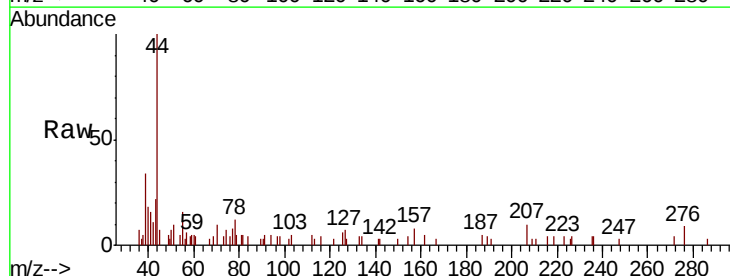
Acq: 5 Oct 2018 20:04

Tgt Ion: 74 Resp: 360

Ion Ratio Lower Upper

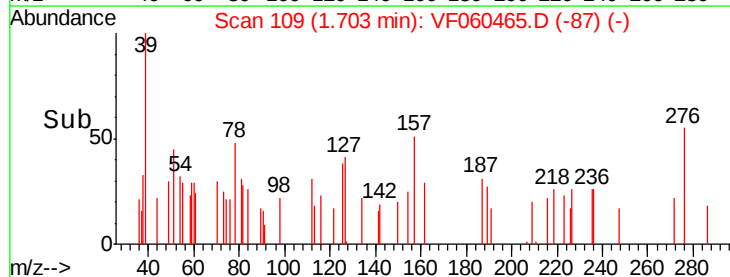
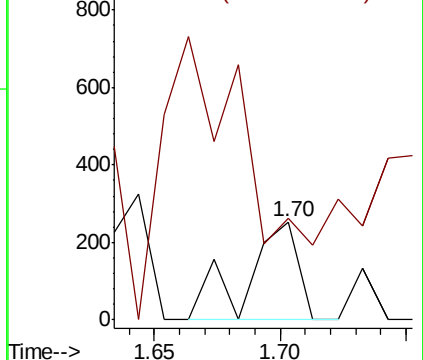
74 100

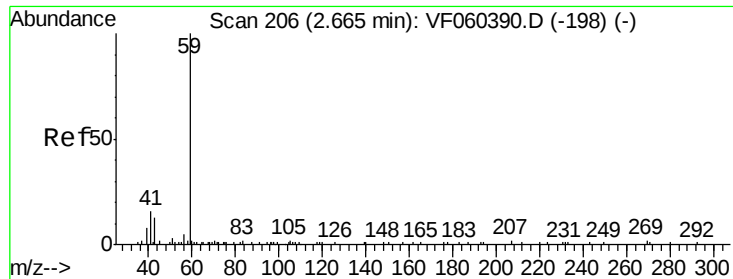
45 103.1 71.3 213.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

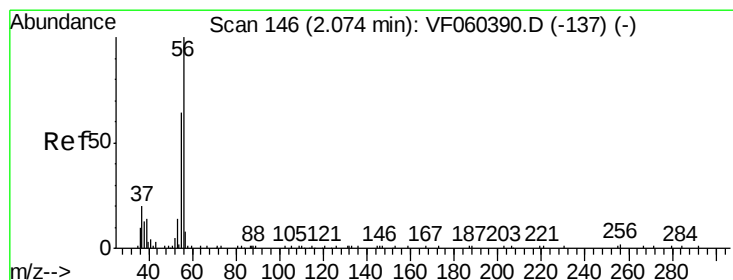
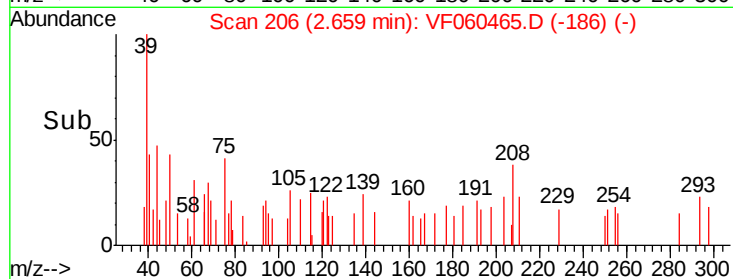
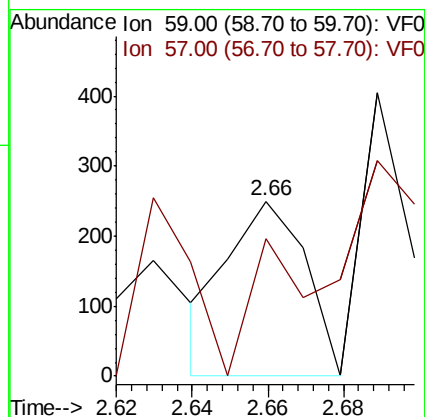
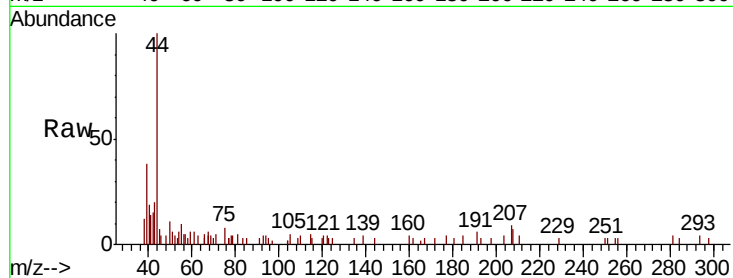




#11
Tert butyl alcohol
Concen: 6.094 ug/l
RT: 2.66 min Scan# 206
Delta R.T. -0.01 min
Lab File: VF060465.D
Acq: 5 Oct 2018 20:04

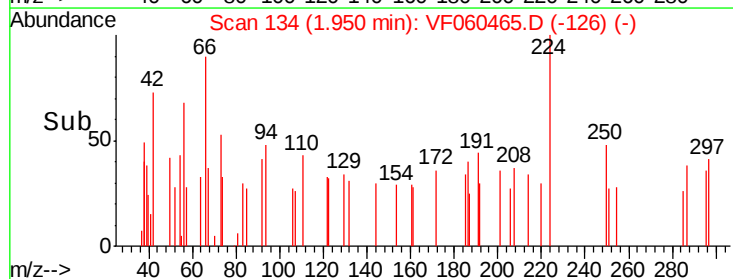
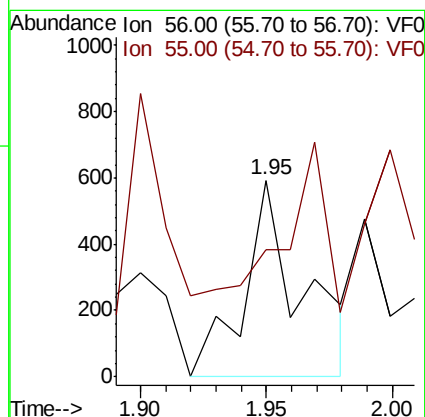
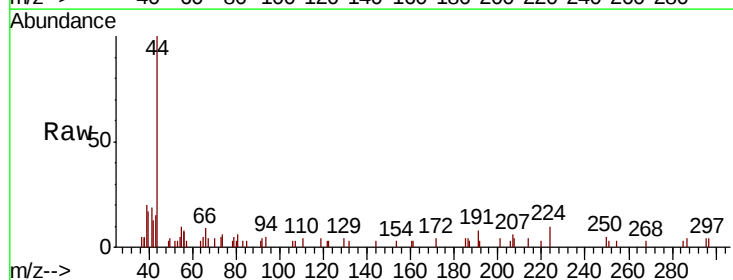
Instrument :
MSVOA_F
ClientSampleId :
STOCK-PILE-CRE

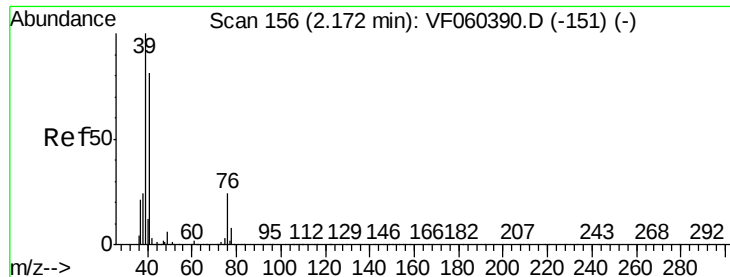
Tot Ion: 59 Resp: 355
Ion Ratio Lower Upper
59 100
57 78.8 6.5 9.7#



#13
Acrolein
Concen: 19.980 ug/l
RT: 1.95 min Scan# 134
Delta R.T. -0.12 min
Lab File: VF060465.D
Acq: 5 Oct 2018 20:04

Tgt Ion: 56 Resp: 936
Ion Ratio Lower Upper
56 100
55 65.0 53.9 80.9





#14

Allvl chloride

Concen: 1.067 ug/l

RT: 2.19 min Scan# 158

Delta R.T. 0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

STOCK-PILE-CRE

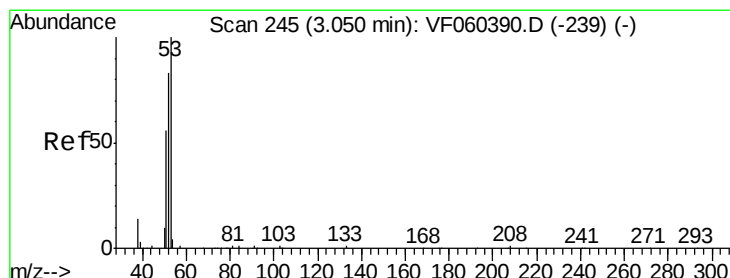
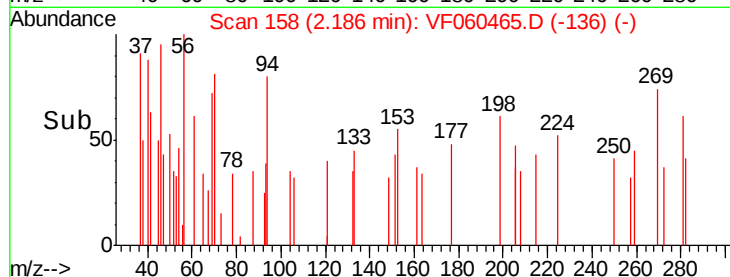
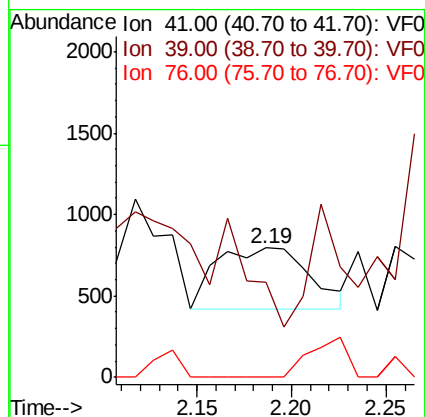
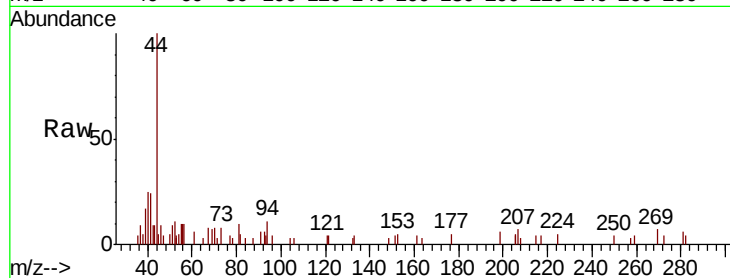
Tot Ion: 41 Resp: 1276

Ion Ratio Lower Upper

41 100

39 73.8 98.3 147.5#

76 0.0 23.9 35.9#



#15

Acrylonitrile

Concen: 7.033 ug/l

RT: 3.03 min Scan# 244

Delta R.T. -0.02 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

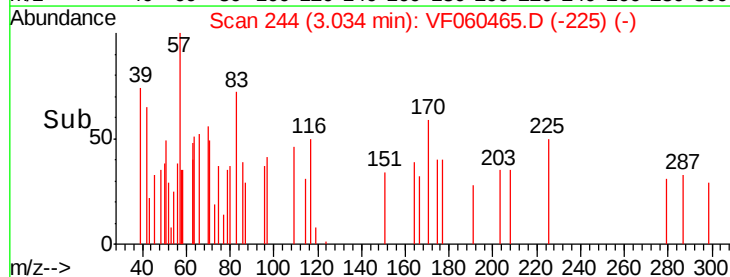
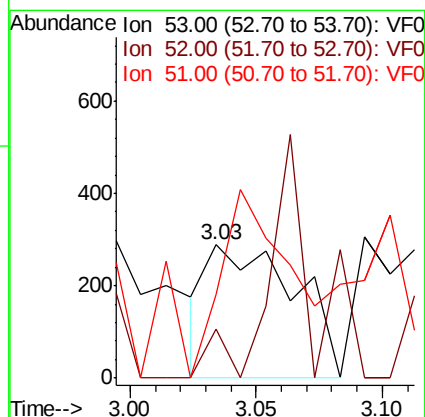
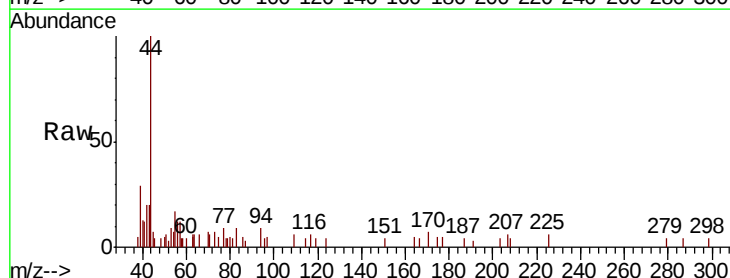
Tgt Ion: 53 Resp: 702

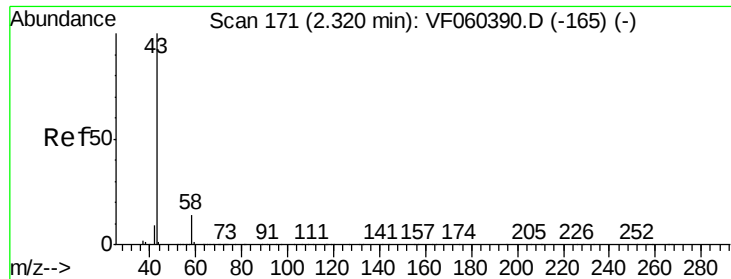
Ion Ratio Lower Upper

53 100

52 36.8 66.0 99.0#

51 62.8 45.6 68.4





#16

Acetone

Concen: Below Cal

RT: 2.26 min Scan# 165

Delta R.T. -0.06 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

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ClientSampleId :

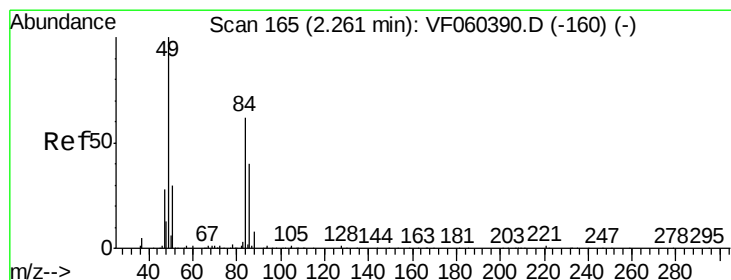
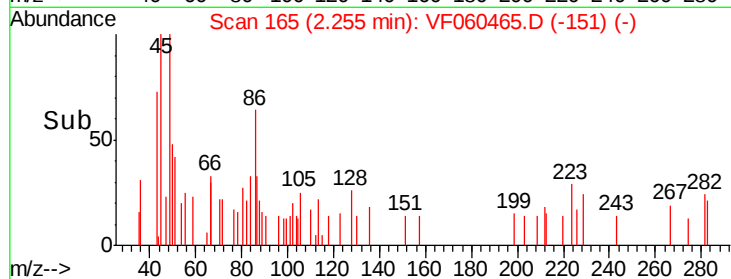
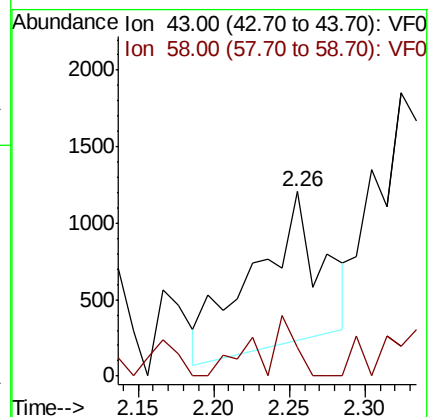
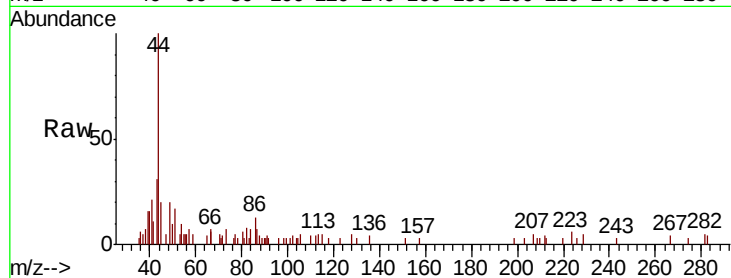
STOCK-PILE-CRE

Tot Ion: 43 Resp: 3029

Ion Ratio Lower Upper

43 100

58 15.2 11.2 16.8



#20

Methylene Chloride

Concen: Below Cal

RT: 2.27 min Scan# 167

Delta R.T. 0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Tgt Ion: 84 Resp: 2051

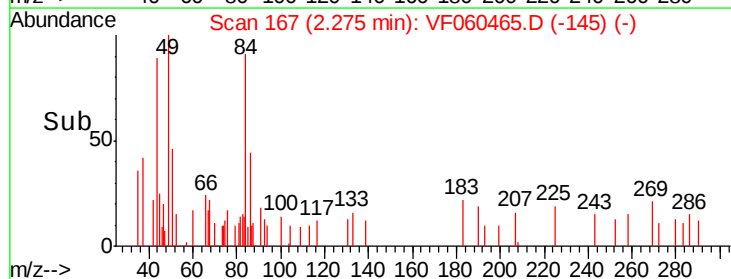
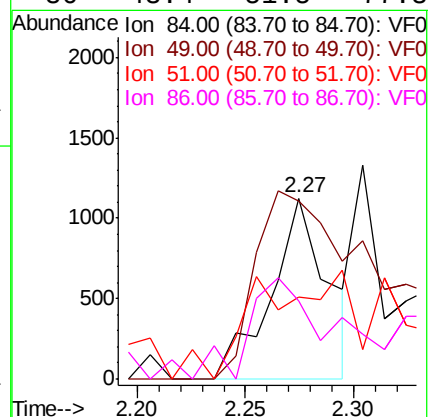
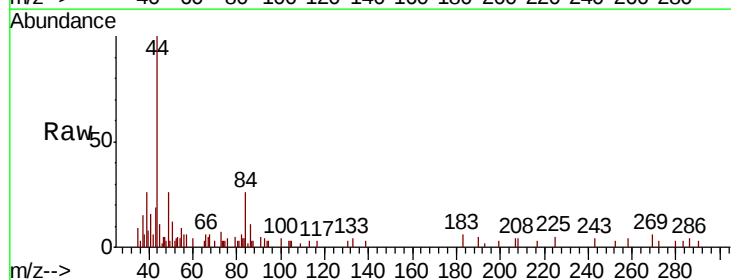
Ion Ratio Lower Upper

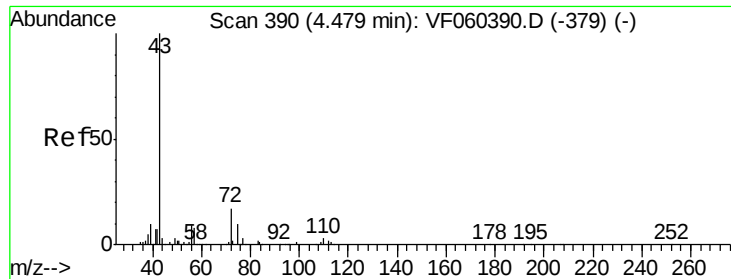
84 100

49 98.4 130.2 195.2#

51 45.2 41.0 61.6

86 43.4 51.5 77.3#





#25

2-Butanone

Concen: 3.084 ug/l

RT: 4.49 min Scan# 392

Delta R.T. 0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

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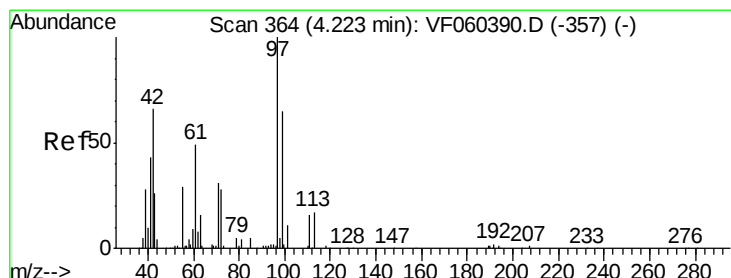
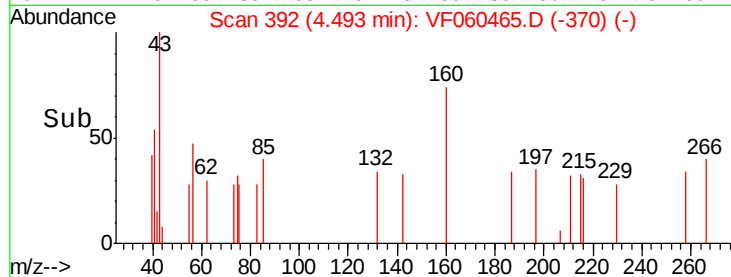
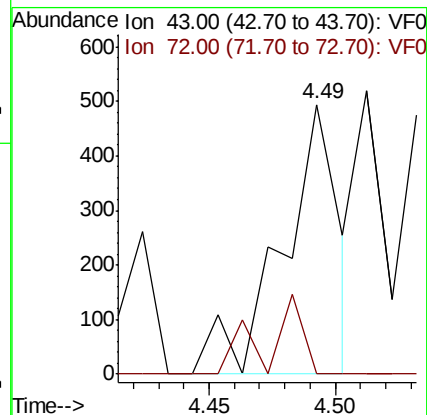
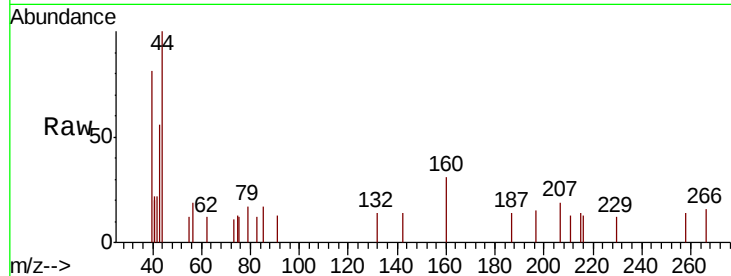
STOCK-PILE-CRE

Tot Ion: 43 Resp: 769

Ion Ratio Lower Upper

43 100

72 0.0 14.1 21.1#



#29

Tetrahydrofuran

Concen: 2.998 ug/l

RT: 4.26 min Scan# 368

Delta R.T. 0.03 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

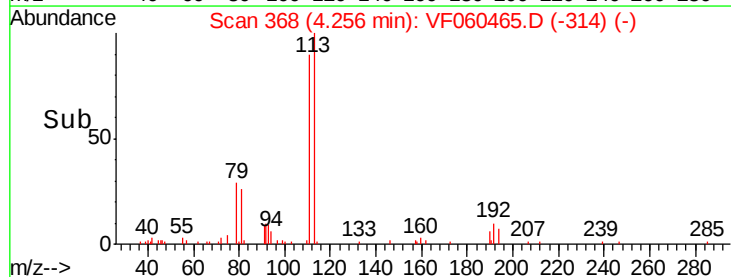
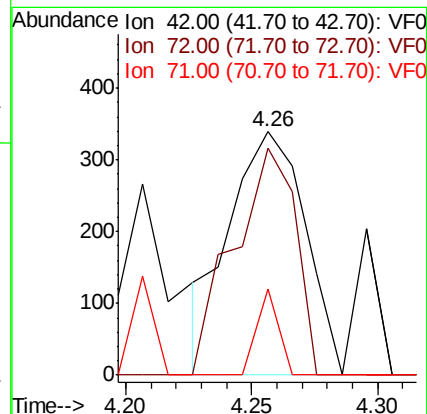
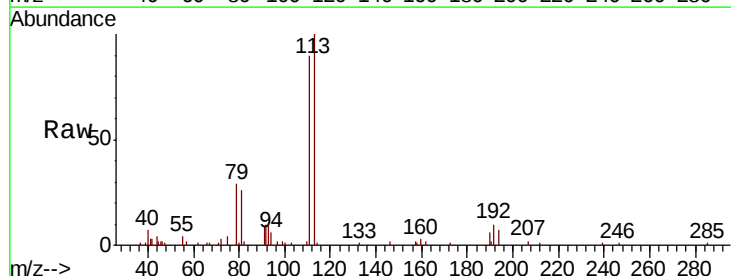
Tgt Ion: 42 Resp: 707

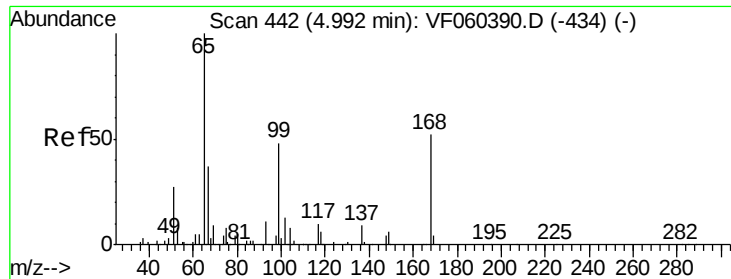
Ion Ratio Lower Upper

42 100

72 76.9 33.6 50.4#

71 10.0 32.7 49.1#

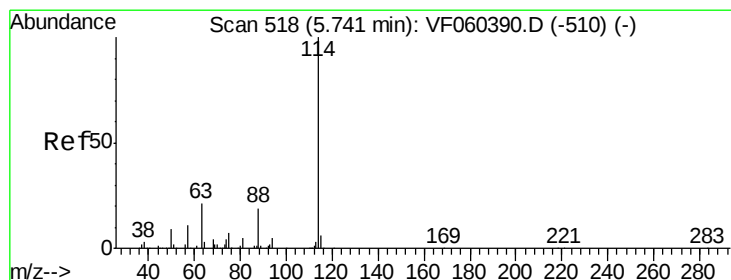
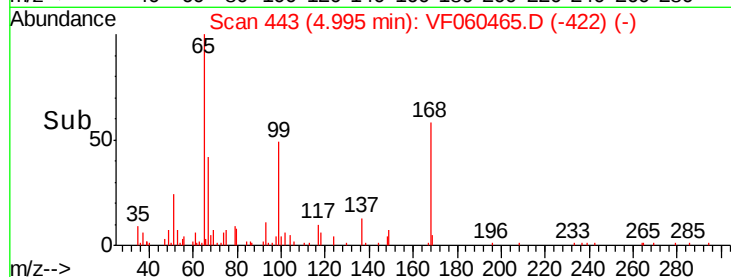
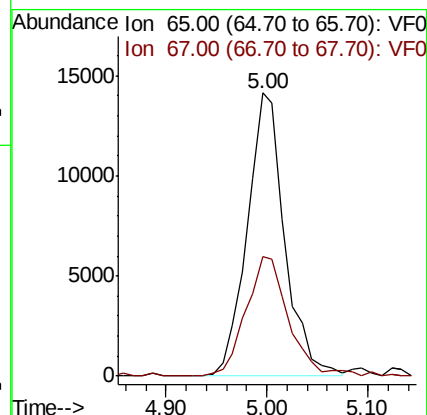
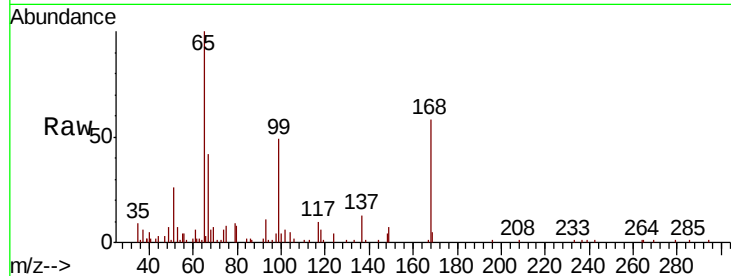




#33
 1,2-Dichloroethane-d4
 Concen: 38.144 ug/l
 RT: 5.00 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VF060465.D
 Acq: 5 Oct 2018 20:04

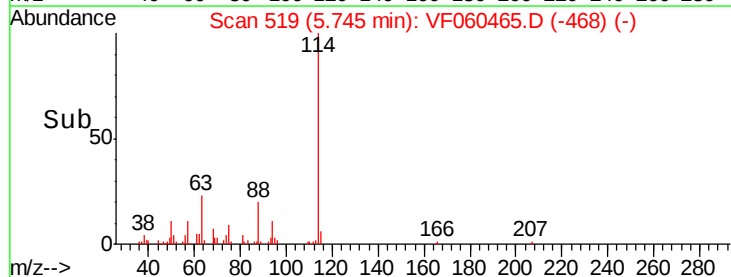
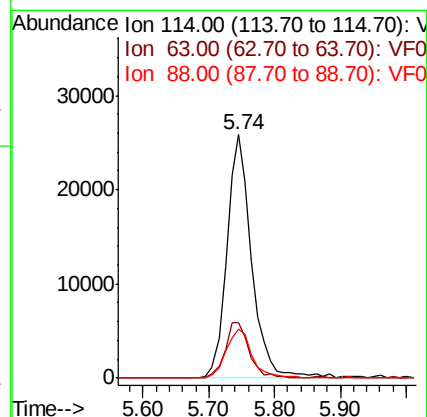
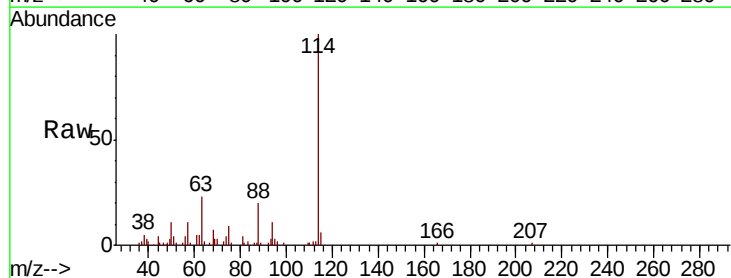
Instrument :
 MSVOA_F
 ClientSampleId :
 STOCK-PILE-CRE

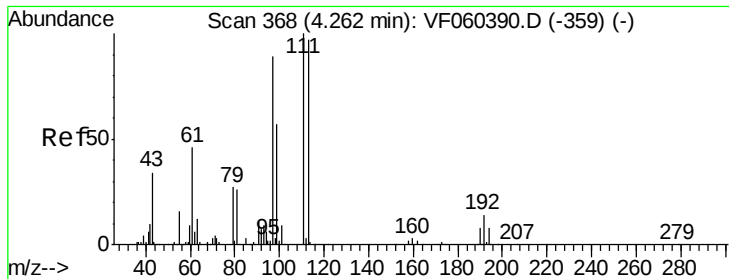
Tot Ion: 65 Resp: 36735
 Ion Ratio Lower Upper
 65 100
 67 42.0 0.0 89.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.74 min Scan# 519
 Delta R.T. 0.00 min
 Lab File: VF060465.D
 Acq: 5 Oct 2018 20:04

Tgt Ion:114 Resp: 67579
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 42.2
 88 20.3 0.0 38.8





#35

Dibromofluoromethane

Concen: 60.675 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

STOCK-PILE-CRE

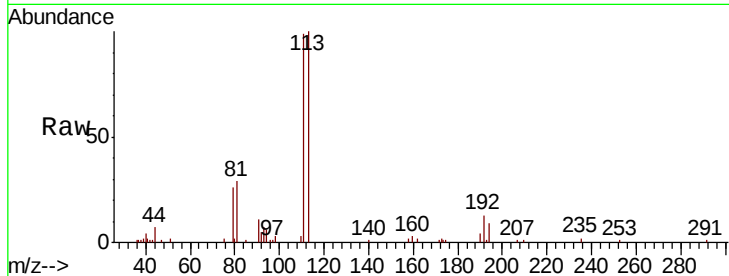
Tot Ion:113 Resp: 38520

Ion Ratio Lower Upper

113 100

111 98.5 82.3 123.5

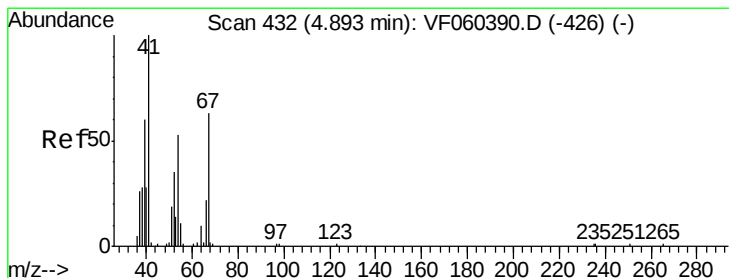
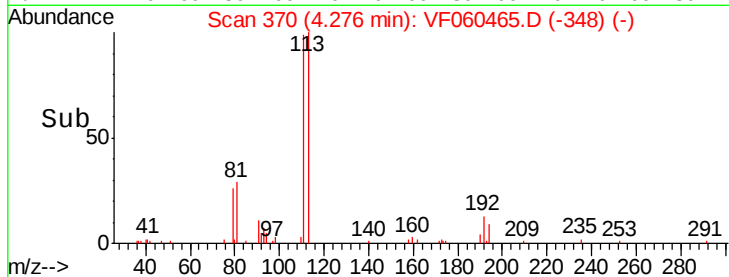
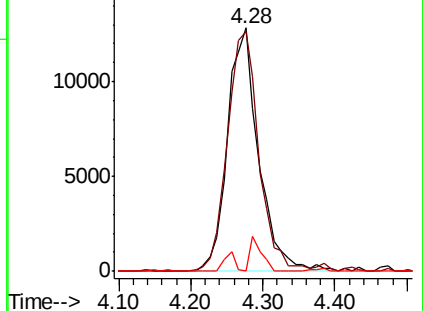
192 0.0 11.8 17.6#



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



#41

Methacrylonitrile

Concen: 2.784 ug/l

RT: 4.92 min Scan# 435

Delta R.T. 0.02 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Tgt Ion: 41 Resp: 471

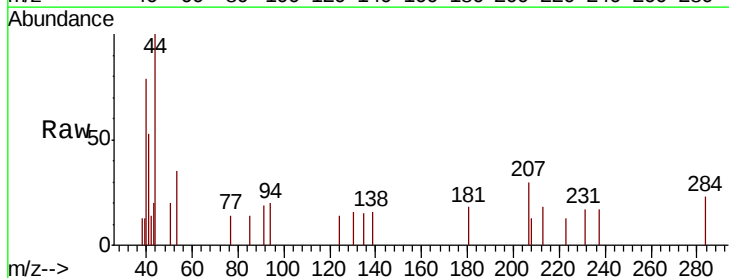
Ion Ratio Lower Upper

41 100

39 24.5 55.0 82.4#

67 0.0 49.6 74.4#

52 0.0 38.8 58.2#

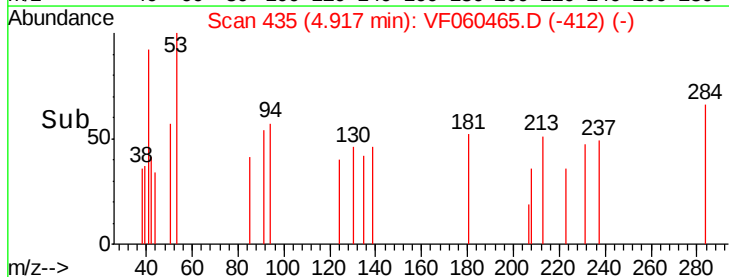
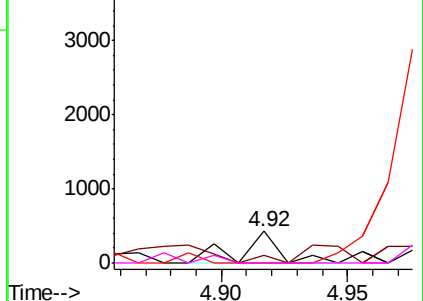


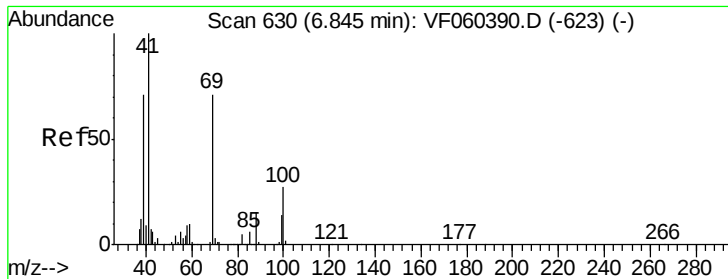
Abundance Ion 41.00 (40.70 to 41.70): VF0

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

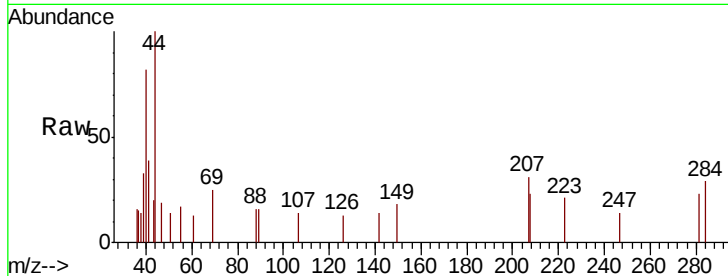




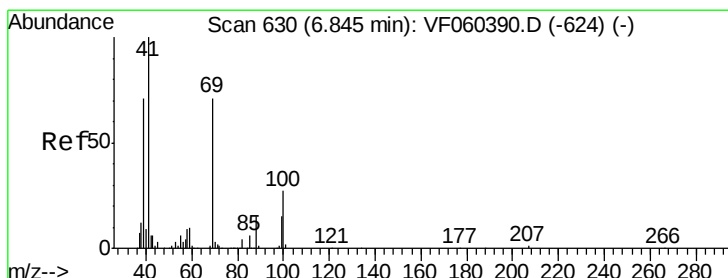
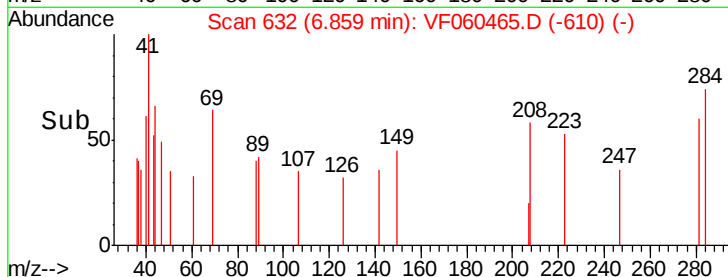
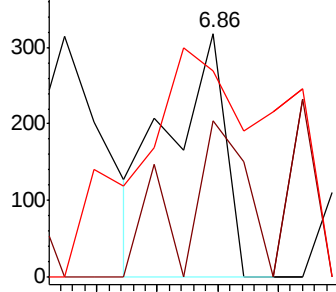
#48
Methvl methacrylate
Concen: 1.474 ug/l
RT: 6.86 min Scan# 632
Delta R.T. 0.01 min
Lab File: VF060465.D
Acq: 5 Oct 2018 20:04

Instrument :
MSVOA_F
ClientSampleId :
STOCK-PILE-CRE

Tot Ion: 41 Resp: 408
Ion Ratio Lower Upper
41 100
69 64.2 56.3 84.5
39 84.9 56.9 85.3

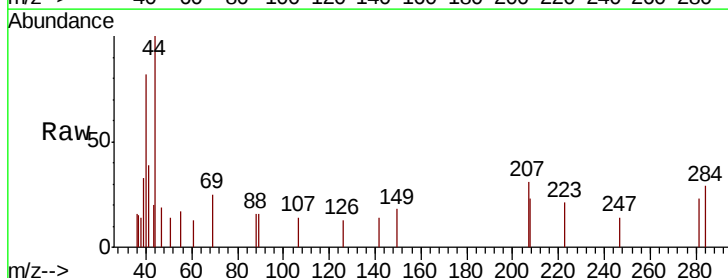


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

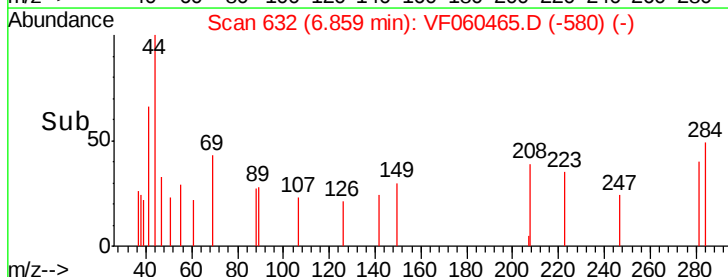
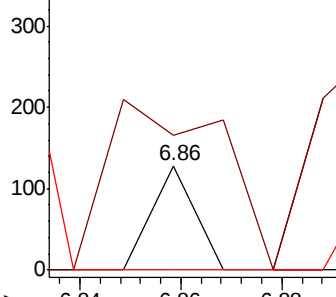


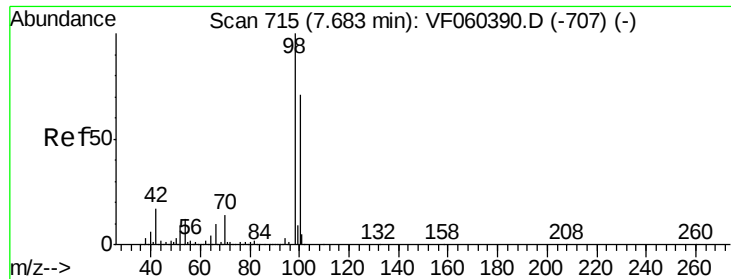
#49
1,4-Dioxane
Concen: 31.846 ug/l
RT: 6.86 min Scan# 632
Delta R.T. 0.01 min
Lab File: VF060465.D
Acq: 5 Oct 2018 20:04

Tgt Ion: 88 Resp: 76
Ion Ratio Lower Upper
88 100
43 128.9 38.3 57.5#
58 0.0 47.4 71.2#



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

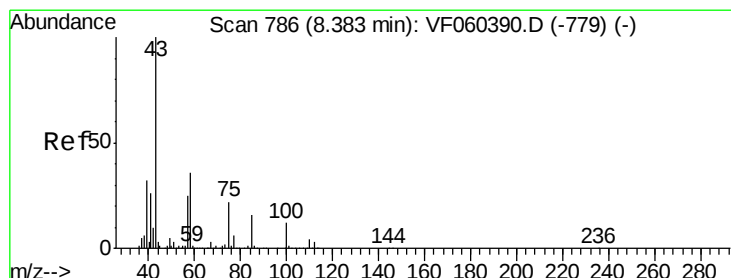
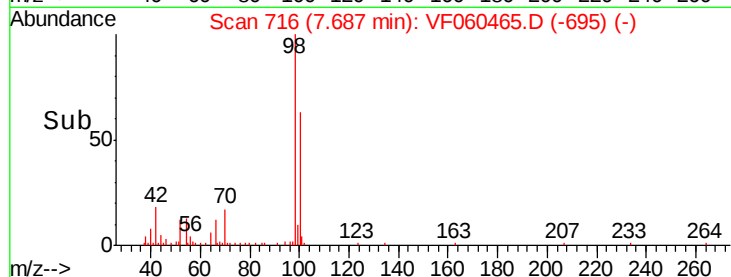
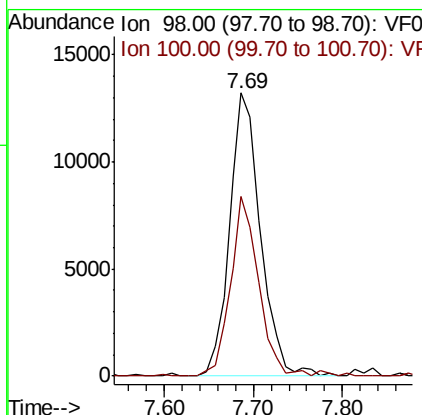
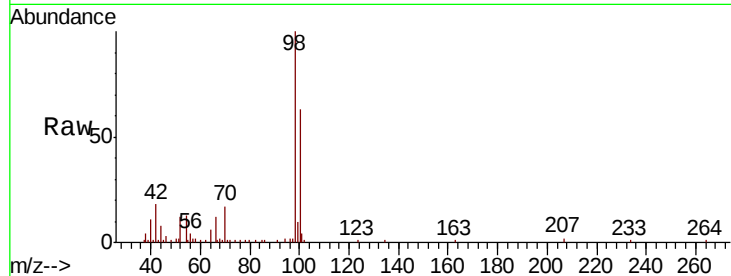




#50
Toluene-d8
Concen: 20.512 ug/l
RT: 7.69 min Scan# 716
Delta R.T. 0.00 min
Lab File: VF060465.D
Acq: 5 Oct 2018 20:04

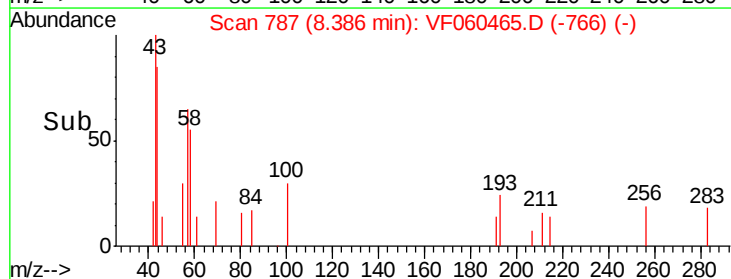
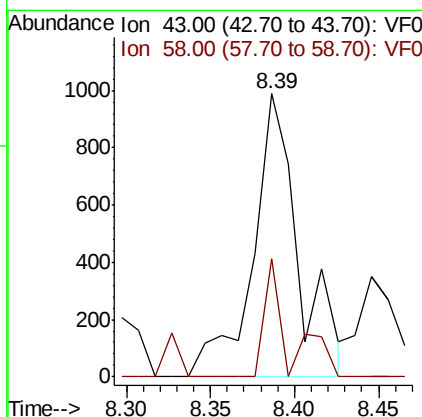
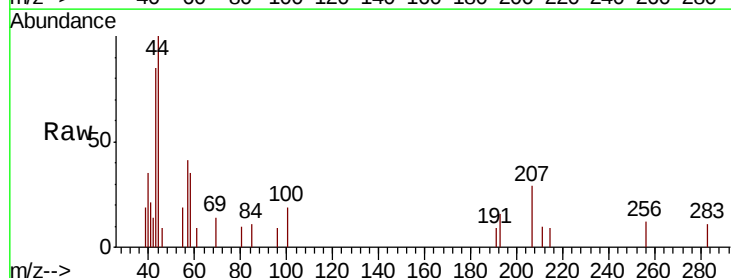
Instrument :
MSVOA_F
ClientSampleId :
STOCK-PILE-CRE

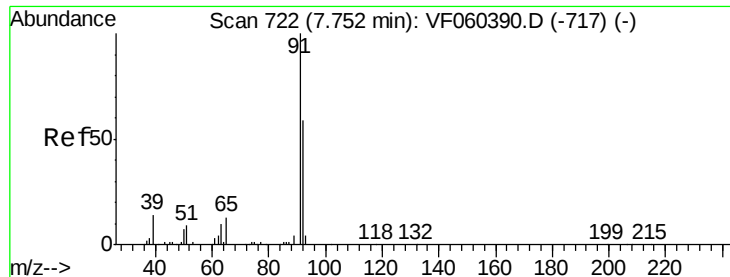
Tot Ion: 98 Resp: 32071
Ion Ratio Lower Upper
98 100
100 63.4 56.5 84.7



#51
4-Methyl-2-Pentanone
Concen: 6.835 ug/l
RT: 8.39 min Scan# 787
Delta R.T. 0.00 min
Lab File: VF060465.D
Acq: 5 Oct 2018 20:04

Tgt Ion: 43 Resp: 1876
Ion Ratio Lower Upper
43 100
58 41.6 28.5 42.7





#58

2-Chloroethyl Vinyl ether

Concen: 2.710 ug/l

RT: 7.72 min Scan# 719

Delta R.T. -0.04 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

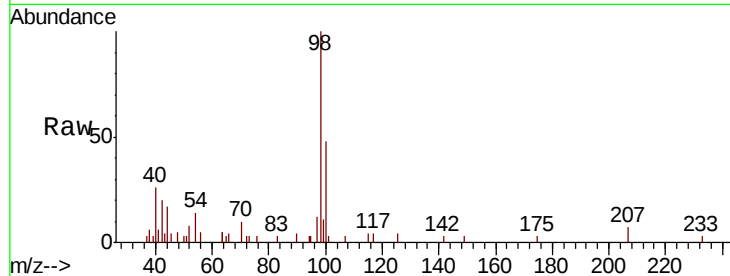
STOCK-PILE-CRE

Tot Ion: 63 Resp: 112

Ion Ratio Lower Upper

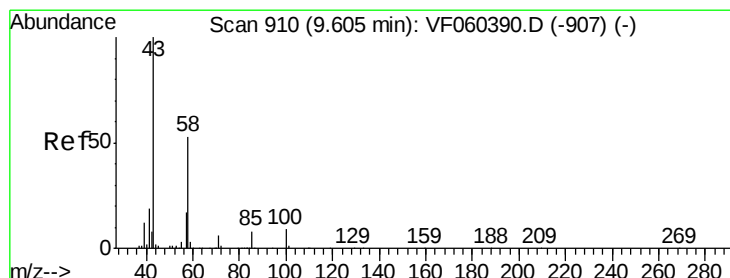
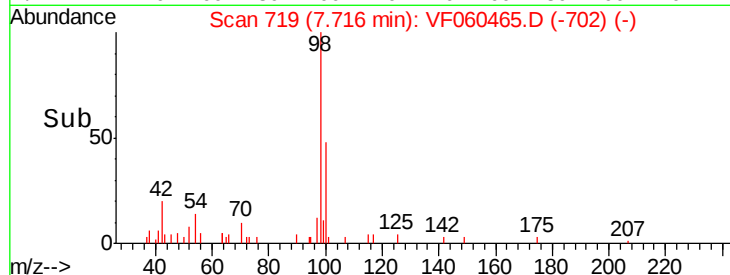
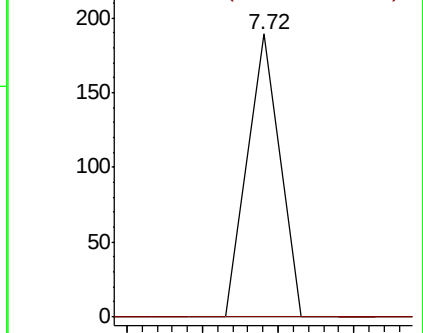
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 19.620 ug/l

RT: 9.61 min Scan# 911

Delta R.T. 0.00 min

Lab File: VF060465.D

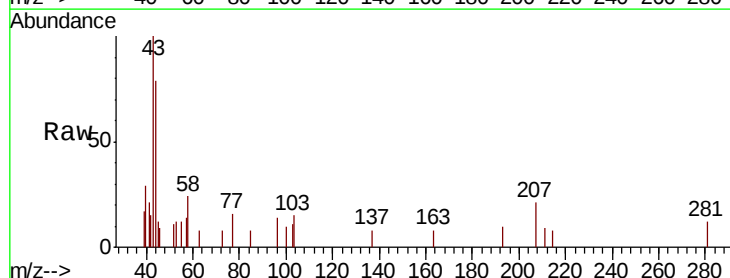
Acq: 5 Oct 2018 20:04

Tgt Ion: 43 Resp: 3950

Ion Ratio Lower Upper

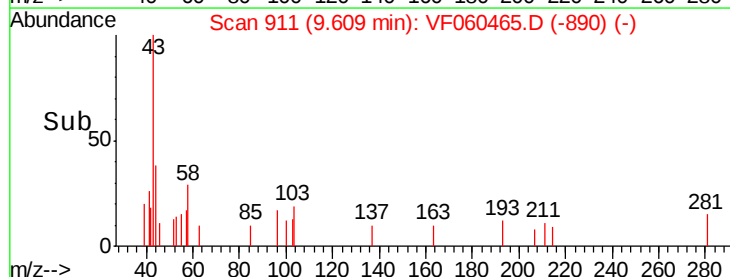
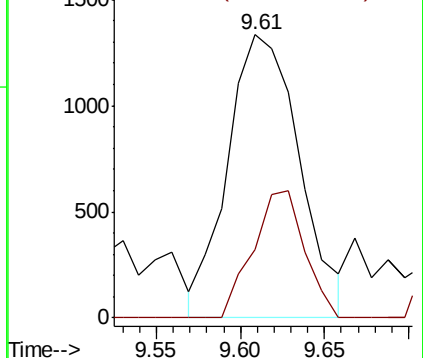
43 100

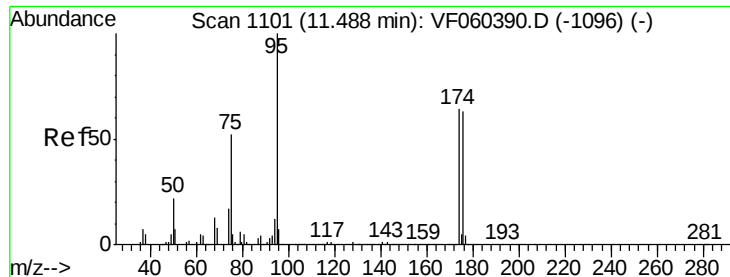
58 24.2 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 5.183 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

STOCK-PILE-CRE

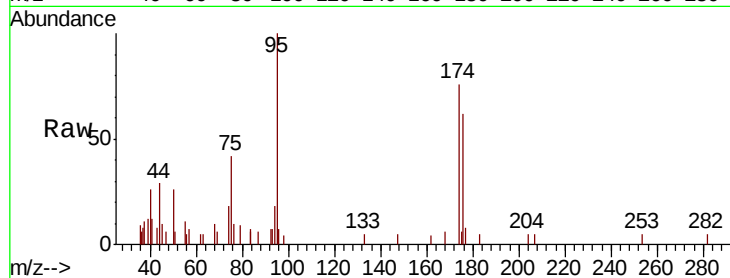
Tot Ion: 95 Resp: 3700

Ion Ratio Lower Upper

95 100

174 76.0 0.0 129.0

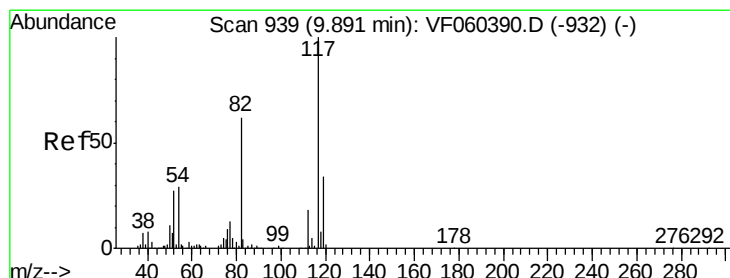
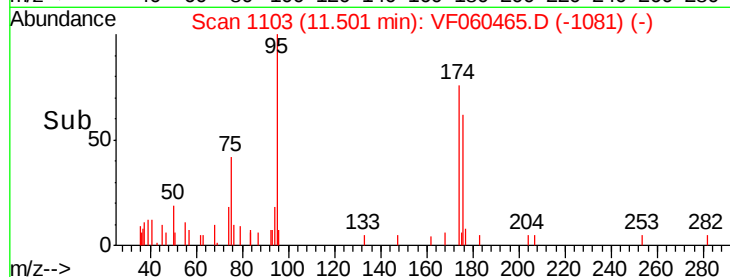
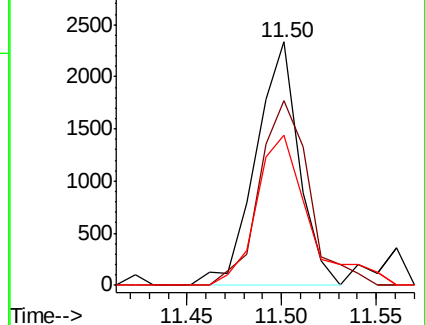
176 61.5 0.0 125.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 941

Delta R.T. 0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

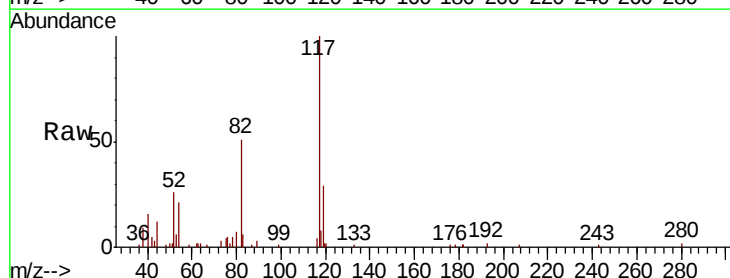
Tgt Ion: 117 Resp: 18735

Ion Ratio Lower Upper

117 100

82 50.8 49.5 74.3

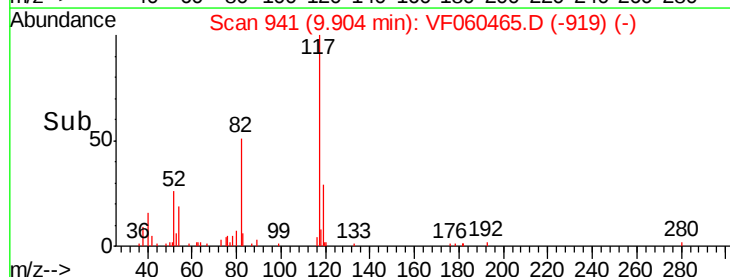
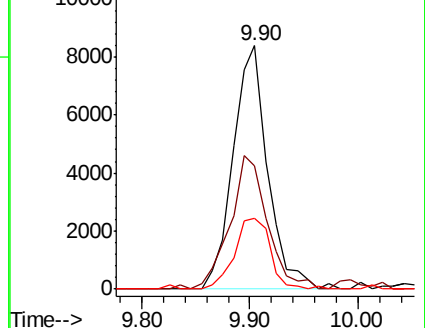
119 29.0 27.0 40.6

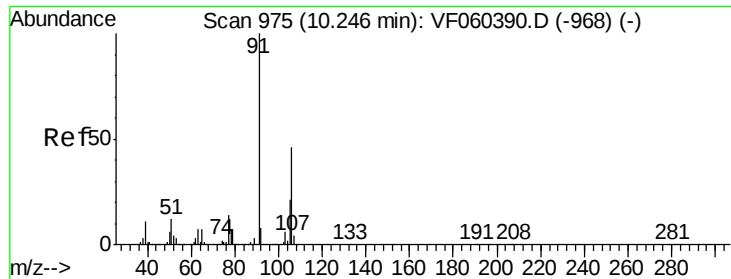


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#68

m/p-Xvlenes

Concen: 1.177 ug/l

RT: 10.25 min Scan# 976

Delta R.T. 0.00 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

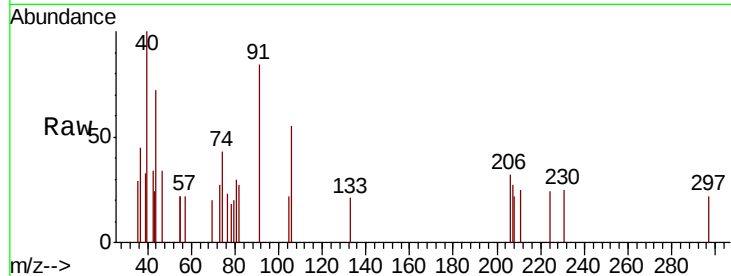
STOCK-PILE-CRE

Tot Ion:106 Resp: 296

Ion Ratio Lower Upper

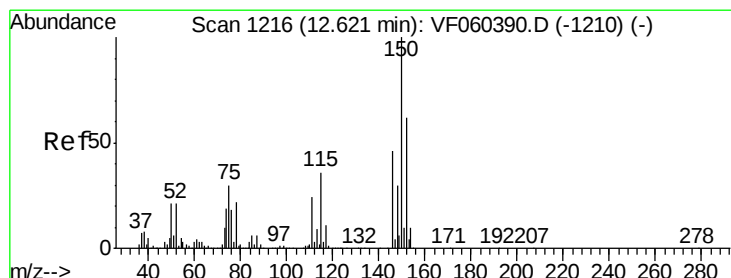
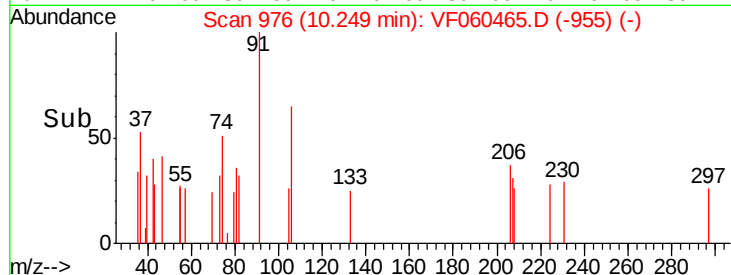
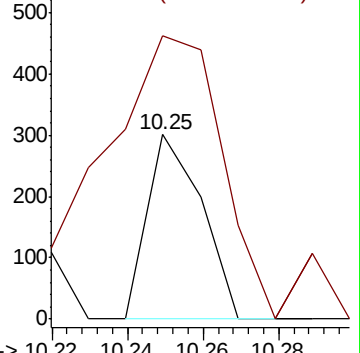
106 100

91 153.5 175.0 262.6#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

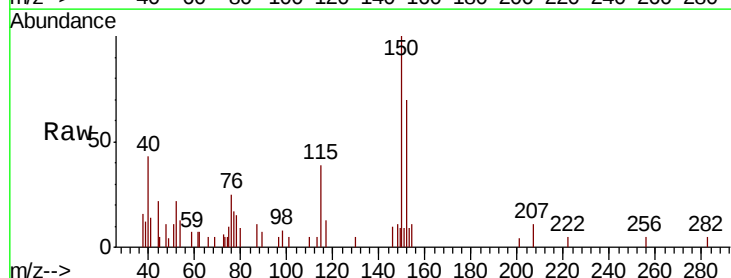
Tgt Ion:152 Resp: 2517

Ion Ratio Lower Upper

152 100

115 55.7 28.6 85.8

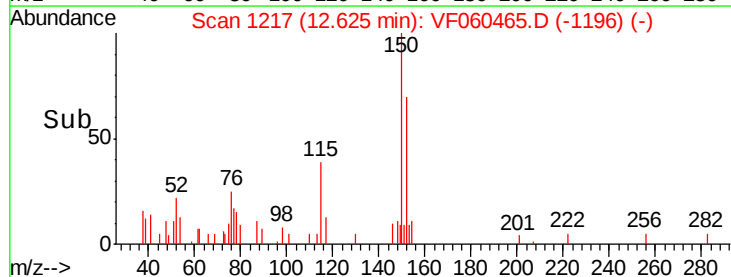
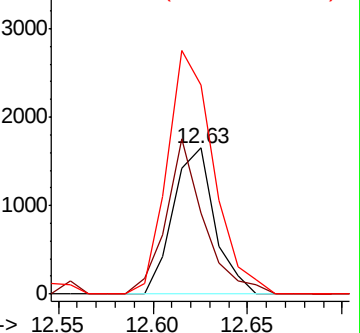
150 143.3 0.0 324.6

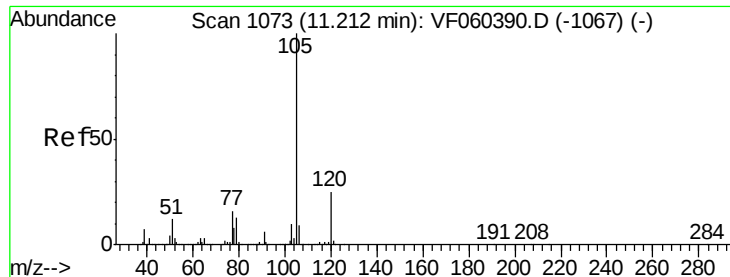


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 2.765 ug/l

RT: 11.21 min Scan# 1073

Delta R.T. -0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

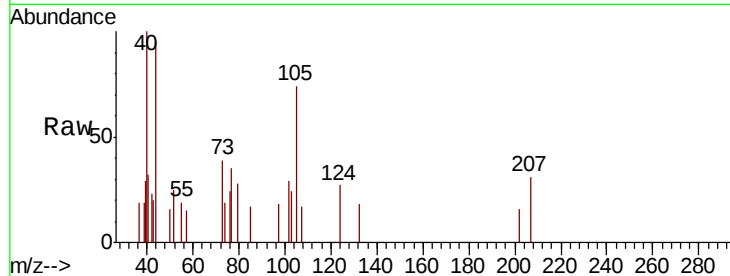
STOCK-PILE-CRE

Tot Ion:105 Resp: 548

Ion Ratio Lower Upper

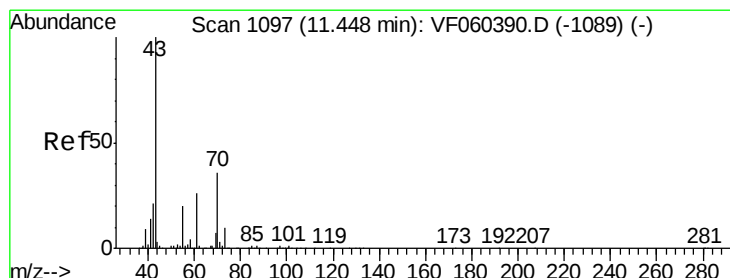
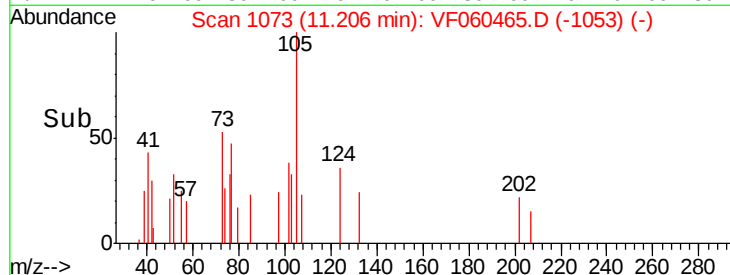
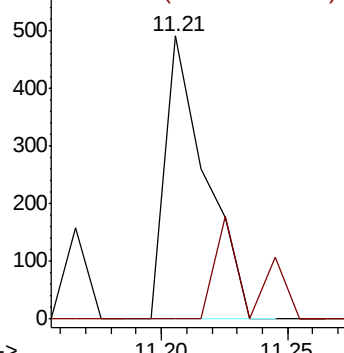
105 100

120 0.0 12.3 36.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 25.196 ug/l

RT: 11.45 min Scan# 1098

Delta R.T. 0.00 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Tgt Ion: 43 Resp: 1146

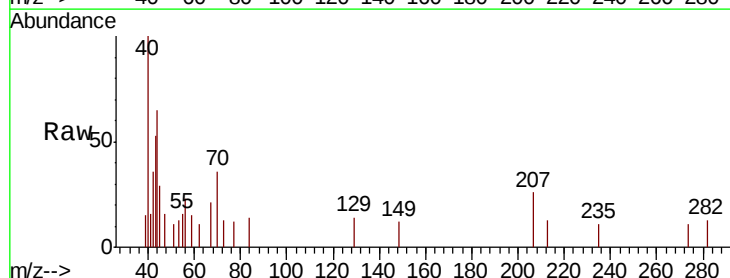
Ion Ratio Lower Upper

43 100

70 69.2 29.1 43.7#

55 31.0 16.3 24.5#

61 0.0 21.0 31.4#

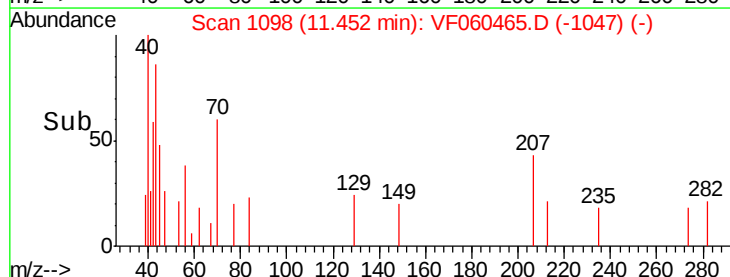
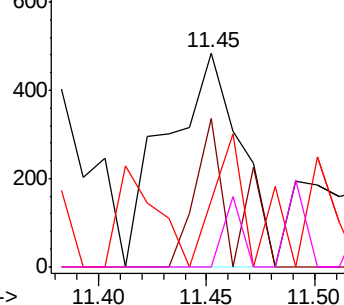


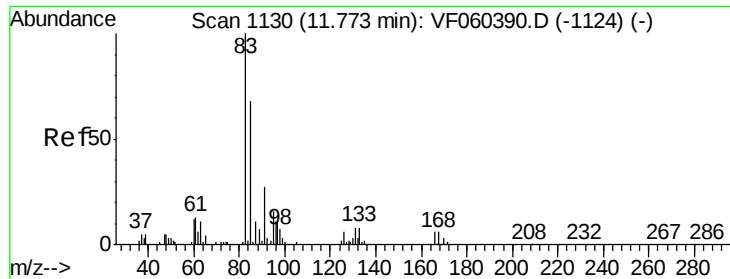
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 1.827 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. 0.09 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

STOCK-PILE-CRE

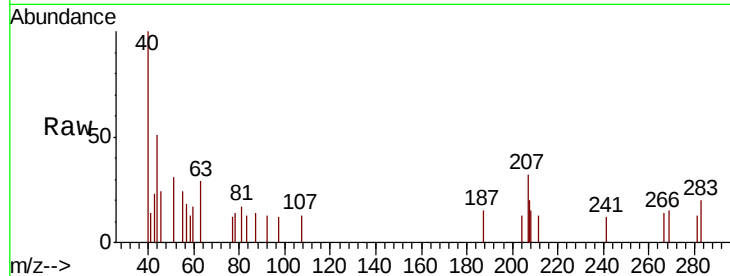
Tot Ion: 83 Resp: 66

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

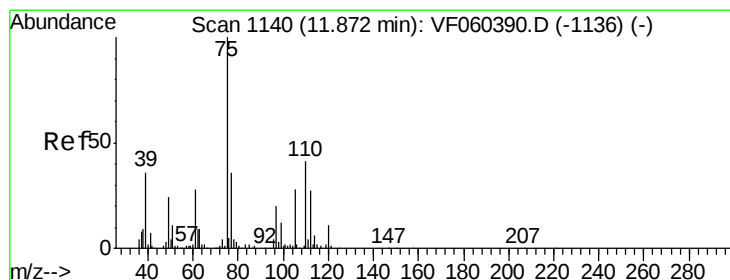
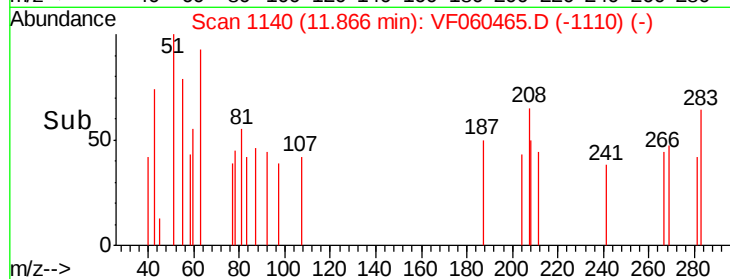
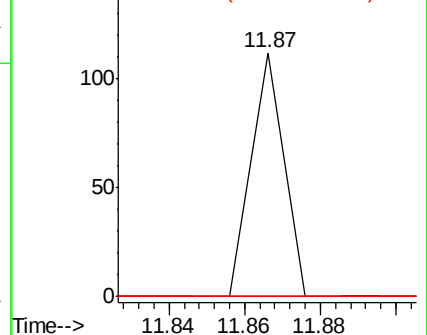
85 0.0 34.0 102.0#



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: 5.451 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.07 min

Lab File: VF060465.D

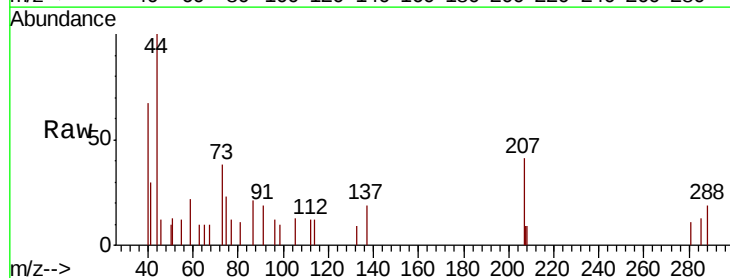
Acq: 5 Oct 2018 20:04

Tgt Ion: 75 Resp: 145

Ion Ratio Lower Upper

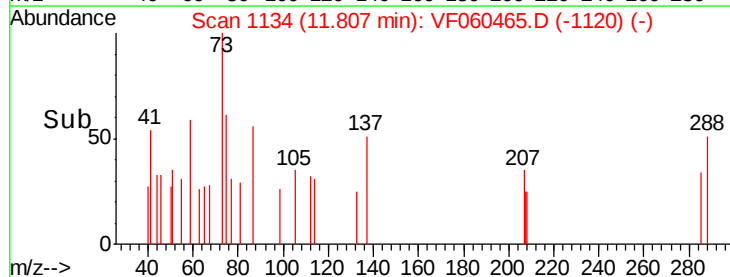
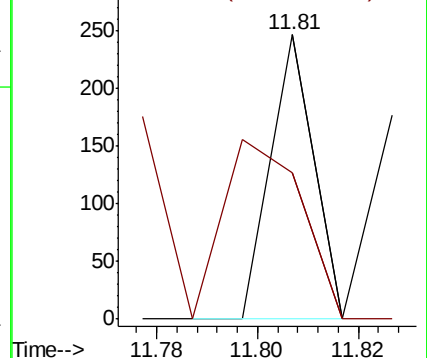
75 100

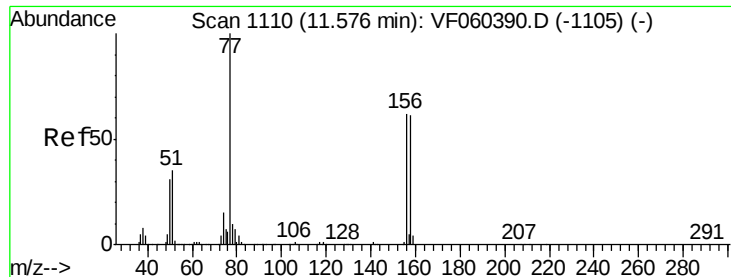
77 51.2 18.1 54.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 1.738 ug/l

RT: 11.57 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

STOCK-PILE-CRE

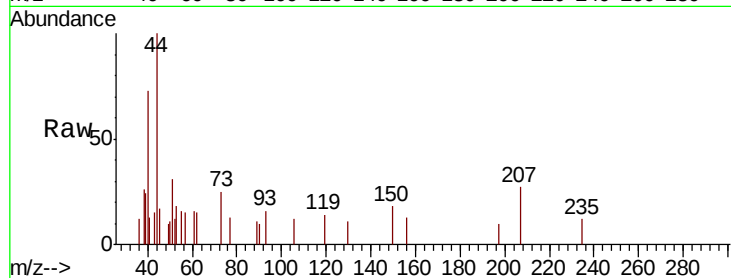
Tot Ion:156 Resp: 77

Ion Ratio Lower Upper

156 100

77 101.5 81.3 243.9

158 0.0 49.6 149.0#



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V

300

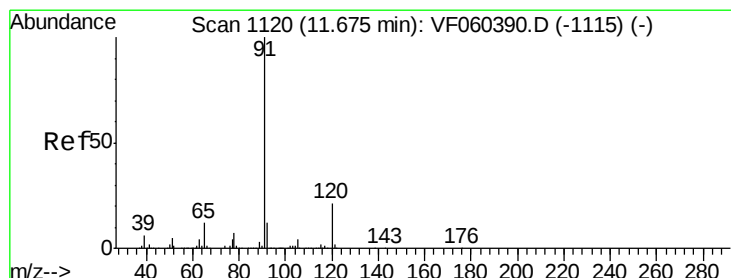
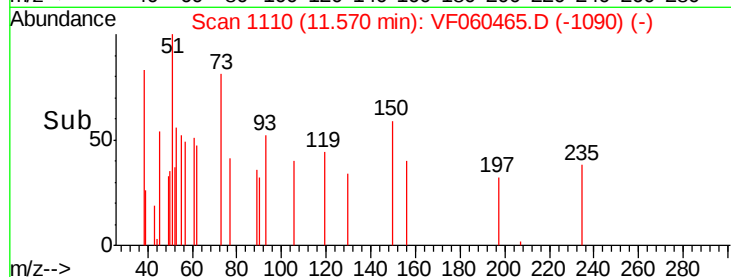
200

100

0

11.54 11.56 11.58 11.60

Time-->



#78

n-propylbenzene

Concen: 5.282 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF060465.D

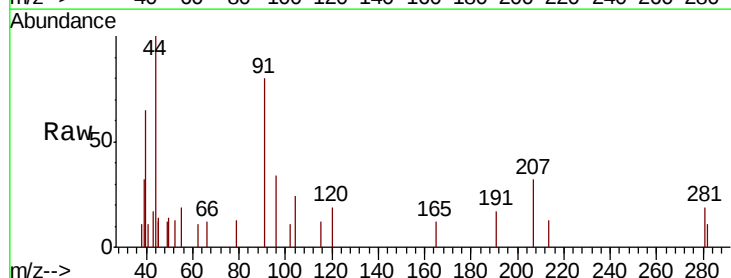
Acq: 5 Oct 2018 20:04

Tgt Ion: 91 Resp: 1269

Ion Ratio Lower Upper

91 100

120 24.4 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

800

600

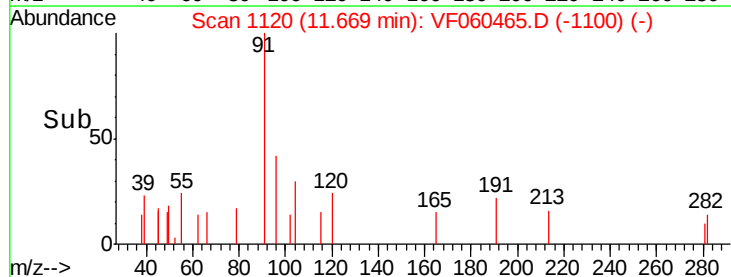
400

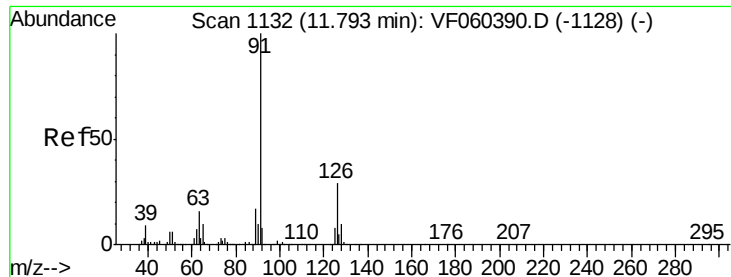
200

0

11.60 11.65 11.70 11.75

Time-->





#79

2-Chlorotoluene

Concen: 3.302 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

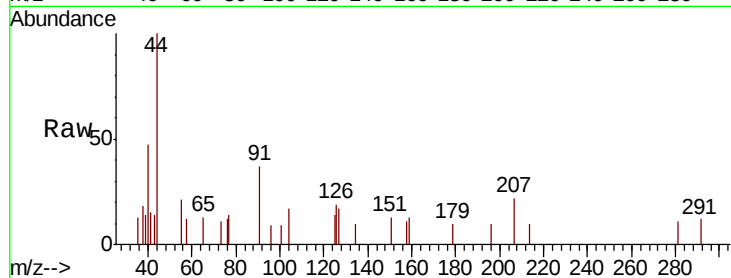
STOCK-PILE-CRE

Tot Ion: 91 Resp: 464

Ion Ratio Lower Upper

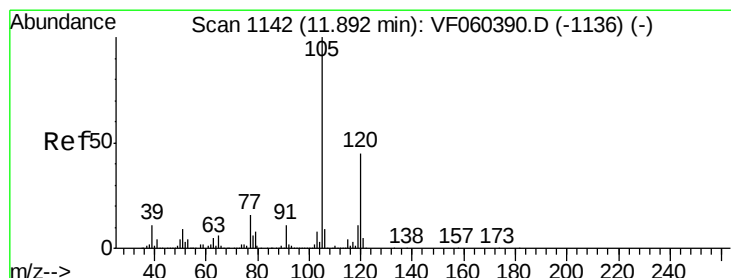
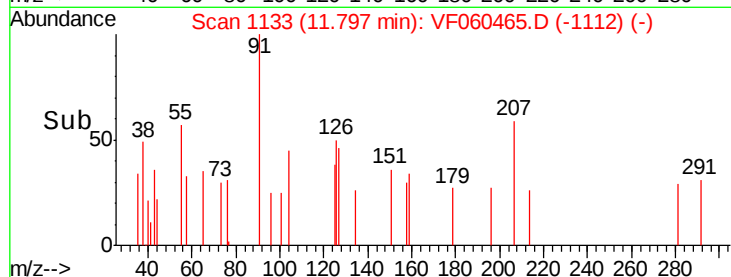
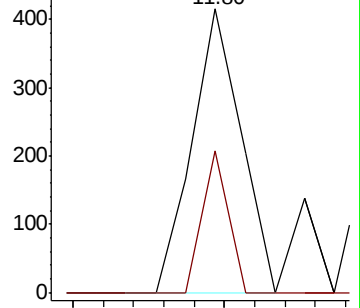
91 100

126 49.9 14.4 43.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 3.718 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF060465.D

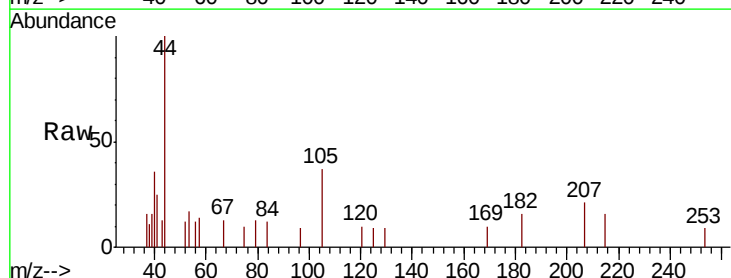
Acq: 5 Oct 2018 20:04

Tgt Ion:105 Resp: 626

Ion Ratio Lower Upper

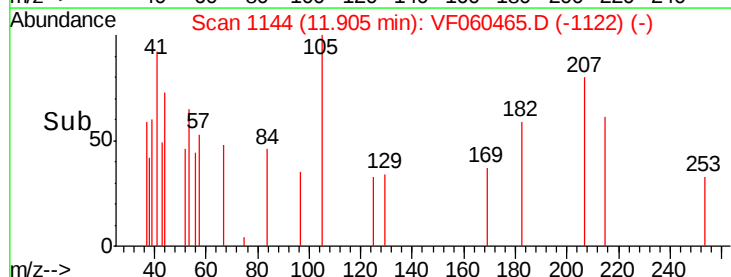
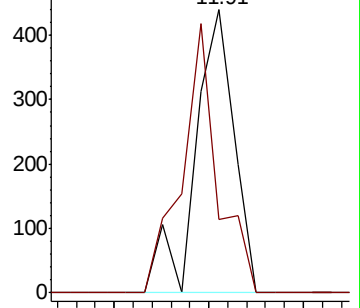
105 100

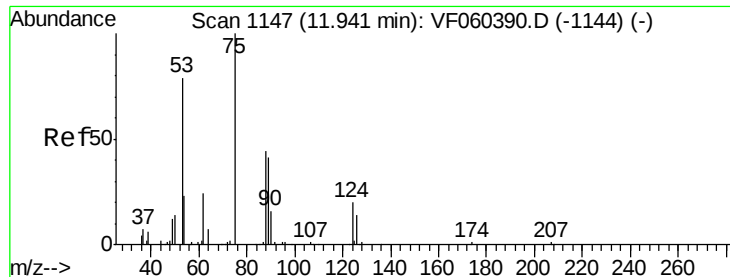
120 26.0 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 5.597 ug/l

RT: 11.97 min Scan# 1151

Delta R.T. 0.03 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

STOCK-PILE-CRE

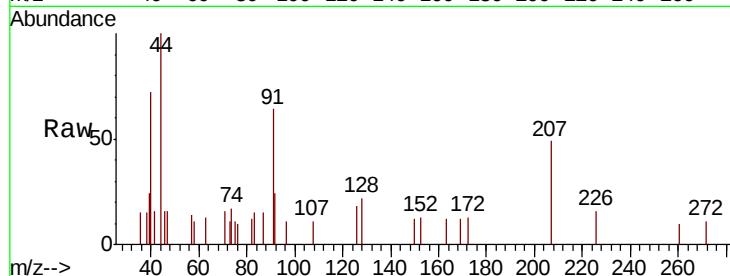
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

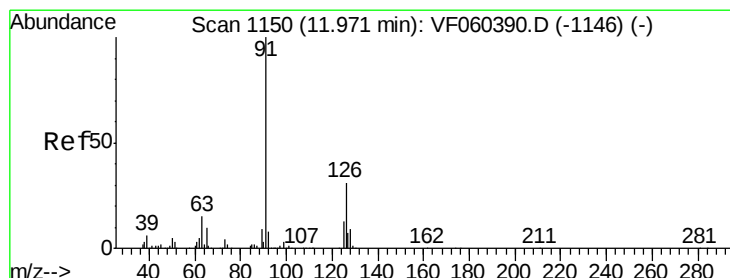
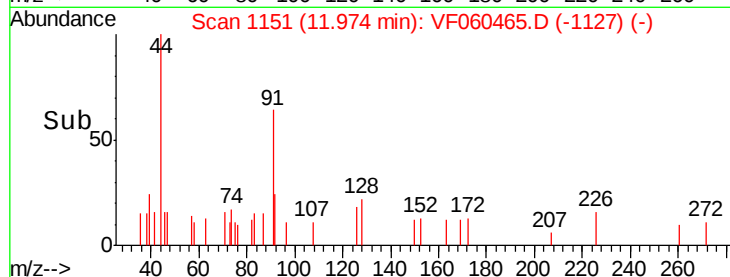
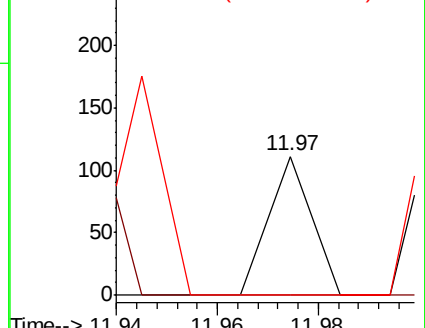
89 0.0 36.7 55.1#



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



#82

4-Chlorotoluene

Concen: 5.835 ug/l

RT: 11.97 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VF060465.D

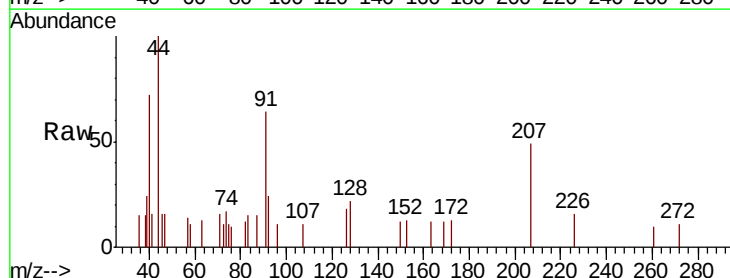
Acq: 5 Oct 2018 20:04

Tgt Ion: 91 Resp: 839

Ion Ratio Lower Upper

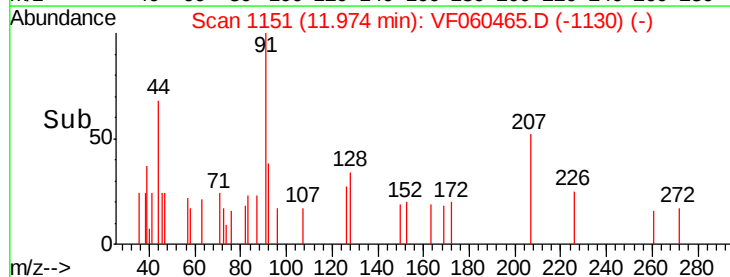
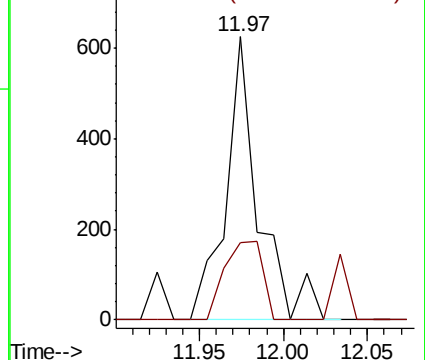
91 100

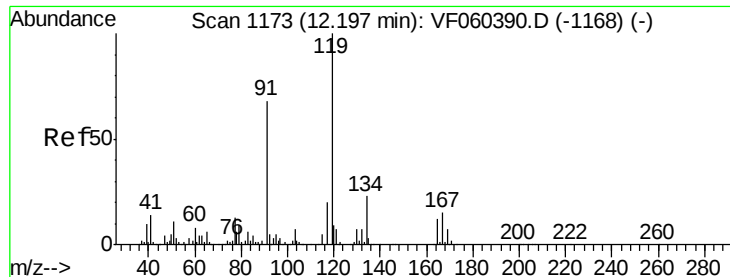
126 27.4 15.7 47.0



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 2.264 ug/l

RT: 12.20 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

STOCK-PILE-CRE

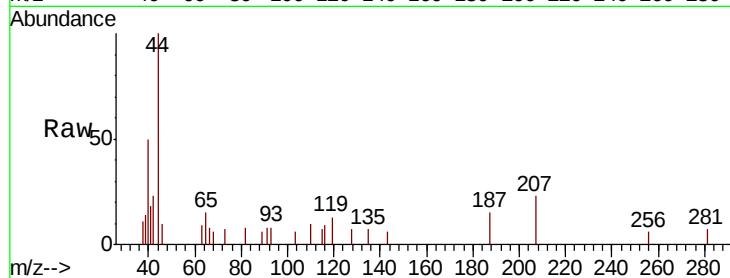
Tot Ion:119 Resp: 376

Ion Ratio Lower Upper

119 100

91 64.1 34.0 102.0

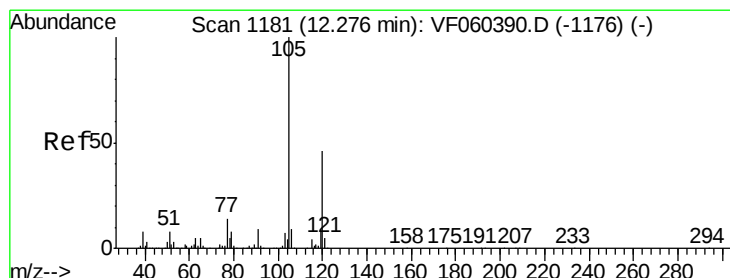
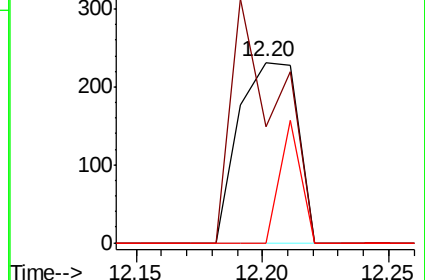
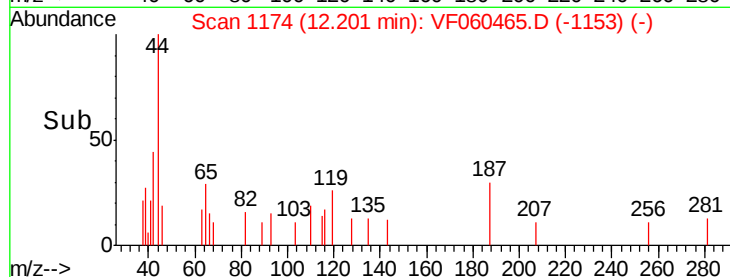
134 0.0 11.7 35.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 5.971 ug/l

RT: 12.27 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VF060465.D

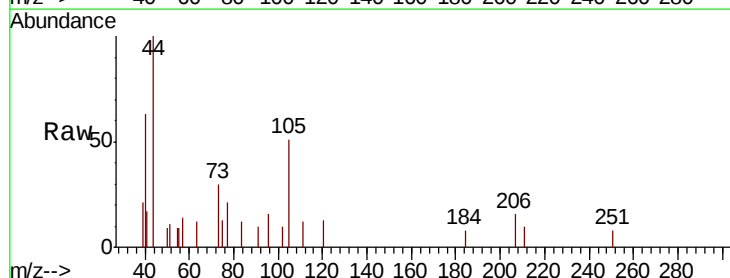
Acq: 5 Oct 2018 20:04

Tgt Ion:105 Resp: 997

Ion Ratio Lower Upper

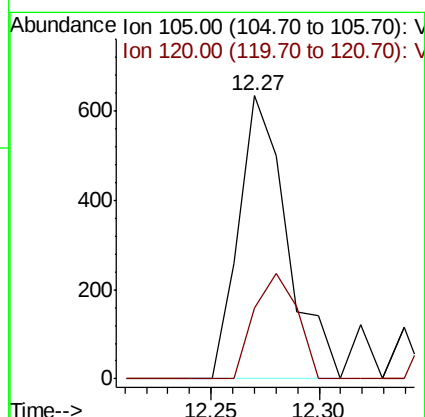
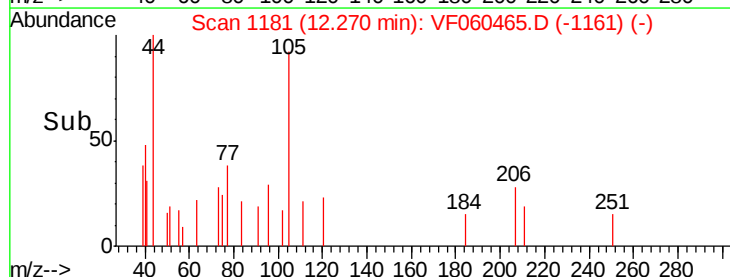
105 100

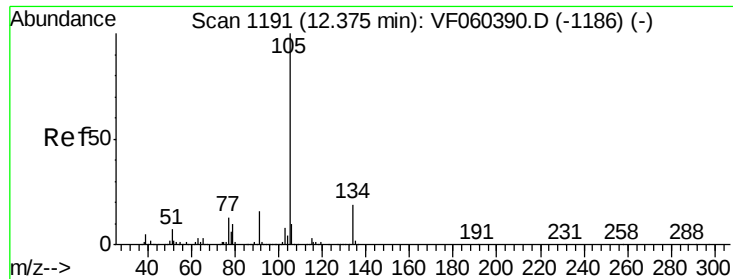
120 24.9 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 3.839 ug/l

RT: 12.37 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

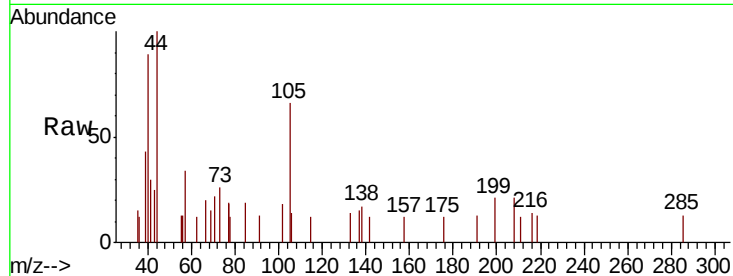
STOCK-PILE-CRE

Tot Ion:105 Resp: 880

Ion Ratio Lower Upper

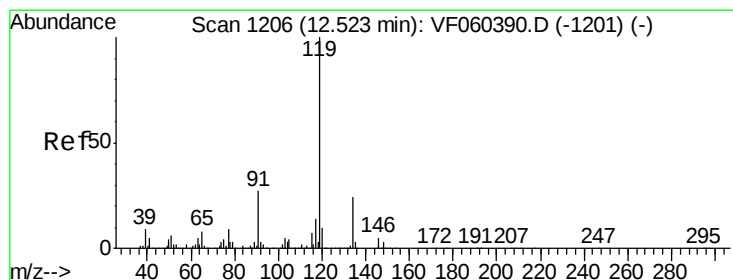
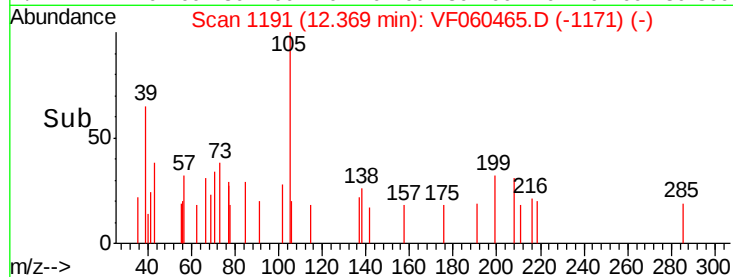
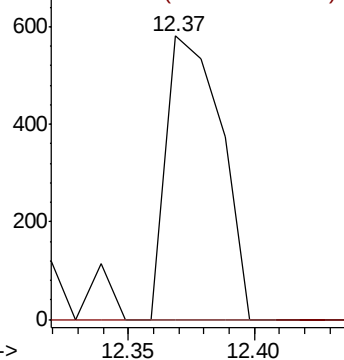
105 100

134 0.0 9.4 28.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.330 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. 0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

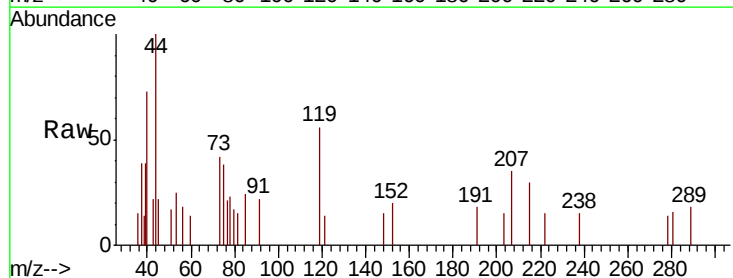
Tgt Ion:119 Resp: 811

Ion Ratio Lower Upper

119 100

134 0.0 12.3 36.8#

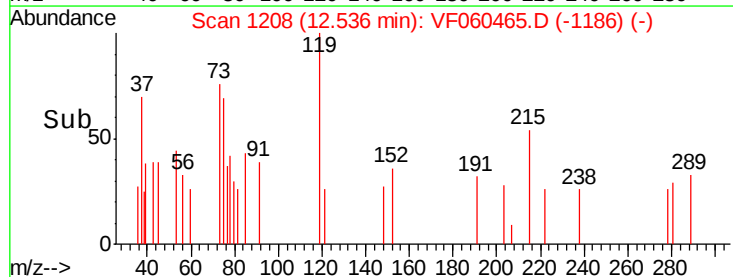
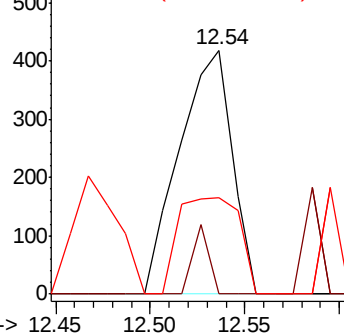
91 39.5 13.5 40.4

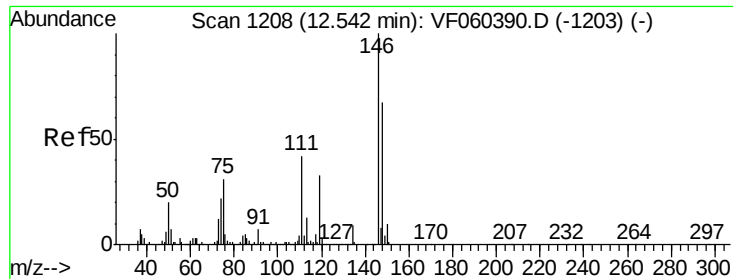


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

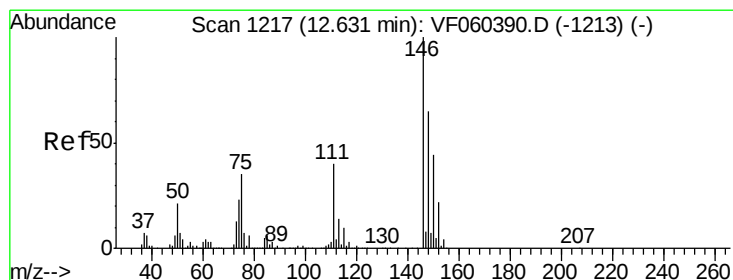
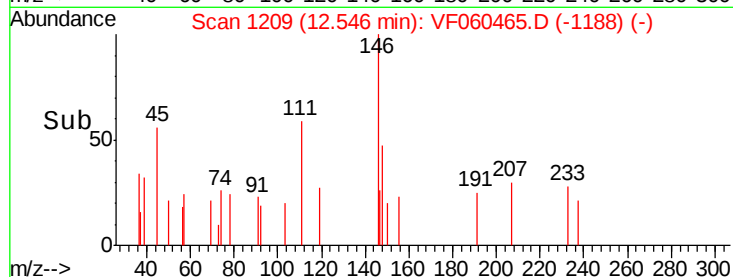
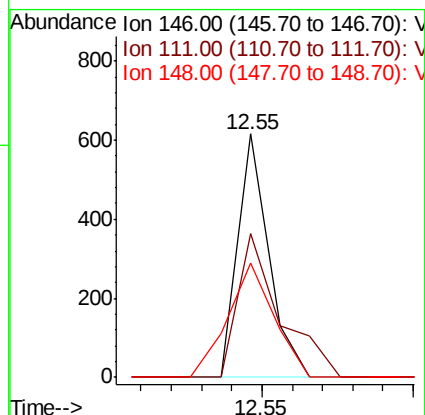
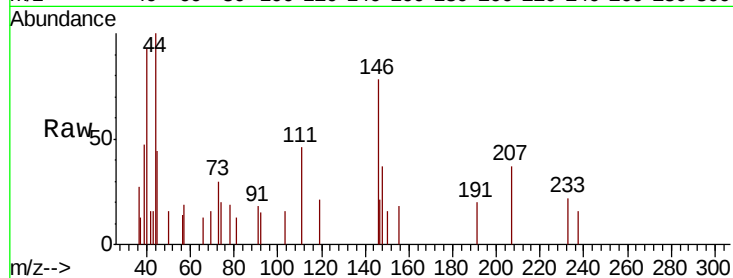




#87
 1,3-Dichlorobenzene
 Concen: 5.302 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. 0.00 min
 Lab File: VF060465.D
 Acq: 5 Oct 2018 20:04

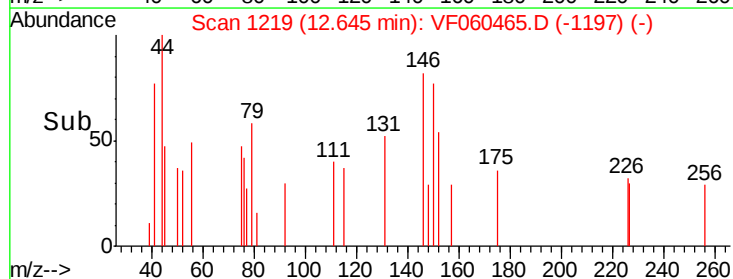
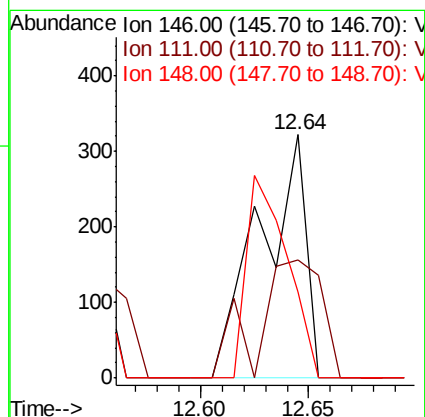
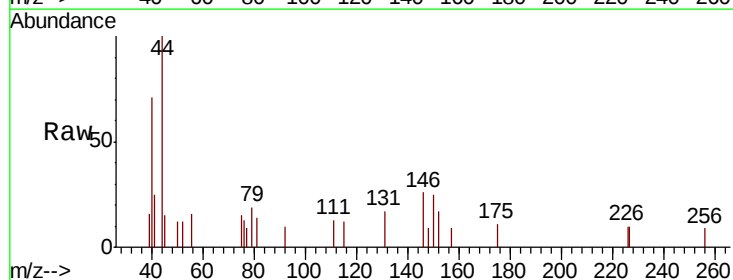
Instrument :
 MSVOA_F
 ClientSampleId :
 STOCK-PILE-CRE

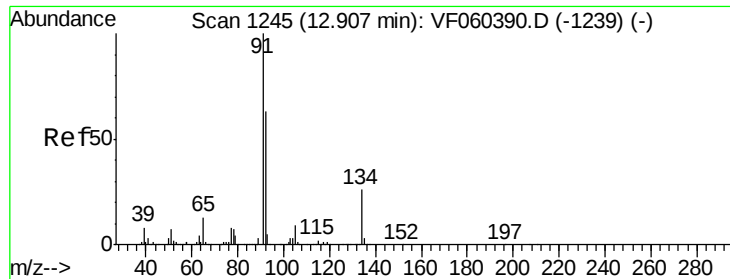
Tot Ion:146 Resp: 442
 Ion Ratio Lower Upper
 146 100
 111 59.1 20.9 62.7
 148 46.8 33.6 100.8



#88
 1,4-Dichlorobenzene
 Concen: 5.791 ug/l
 RT: 12.64 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VF060465.D
 Acq: 5 Oct 2018 20:04

Tgt Ion:146 Resp: 476
 Ion Ratio Lower Upper
 146 100
 111 48.4 20.2 60.6
 148 35.1 32.6 97.8

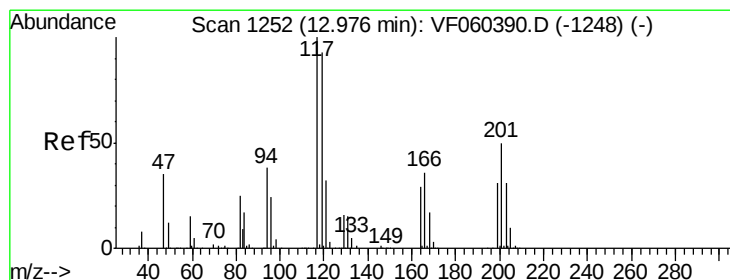
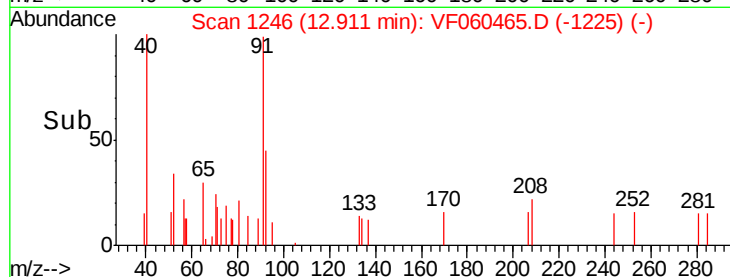
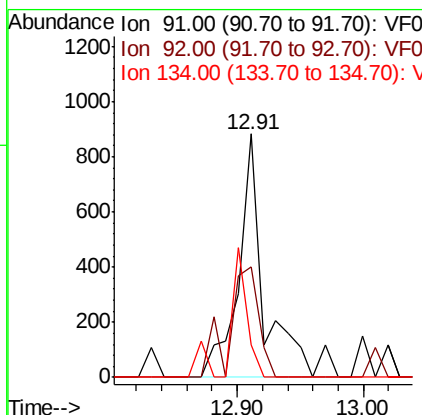
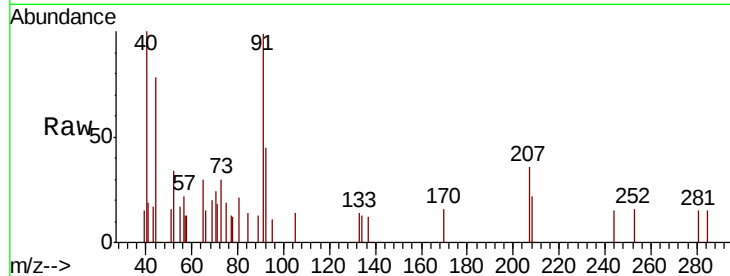




#89
n-Butylbenzene
Concen: 6.403 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. 0.00 min
Lab File: VF060465.D
Acq: 5 Oct 2018 20:04

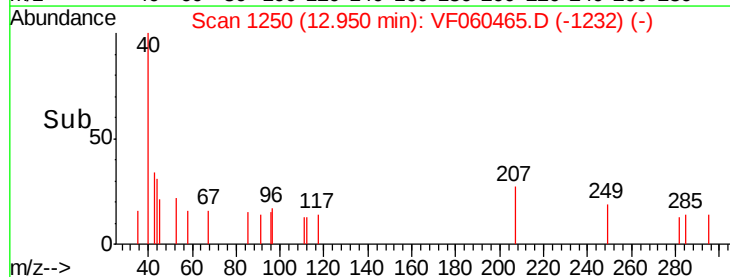
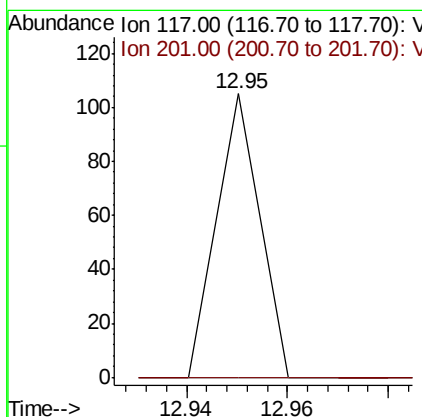
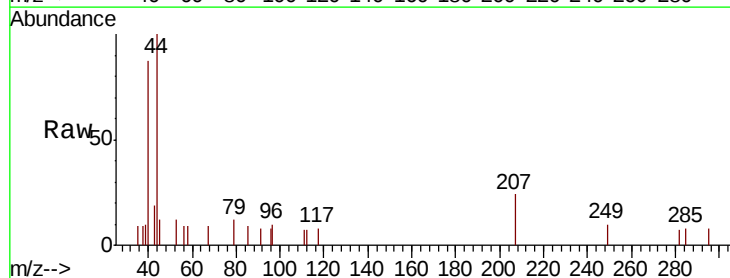
Instrument :
MSVOA_F
ClientSampleId :
STOCK-PILE-CRE

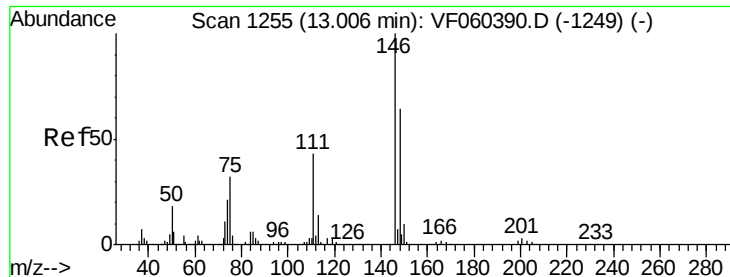
Tot Ion: 91 Resp: 1269
Ion Ratio Lower Upper
91 100
92 45.6 31.3 93.9
134 13.5 13.0 38.9



#90
Hexachloroethane
Concen: 1.281 ug/l
RT: 12.95 min Scan# 1250
Delta R.T. -0.03 min
Lab File: VF060465.D
Acq: 5 Oct 2018 20:04

Tgt Ion: 117 Resp: 62
Ion Ratio Lower Upper
117 100
201 0.0 25.5 76.5#

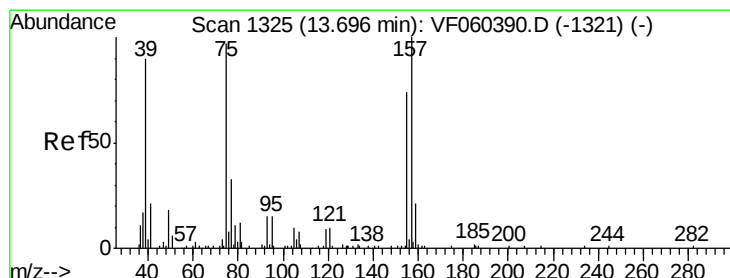
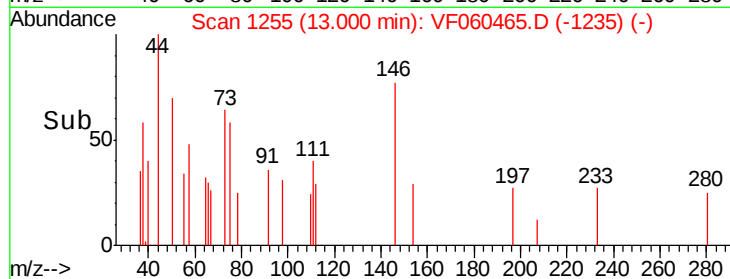
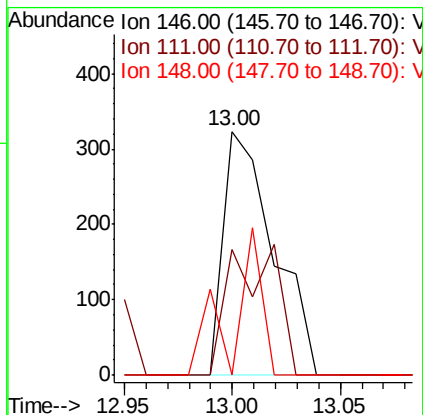
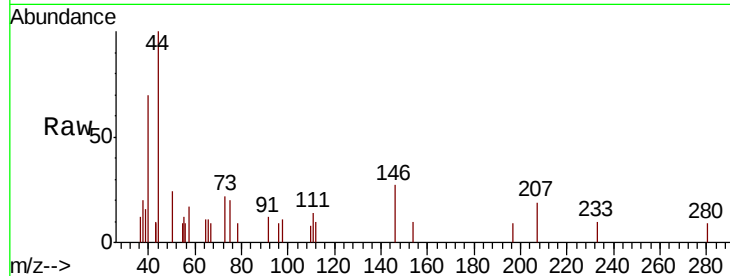




#91
 1,2-Dichlorobenzene
 Concen: 6.573 ug/l
 RT: 13.00 min Scan# 1255
 Delta R.T. -0.01 min
 Lab File: VF060465.D
 Acq: 5 Oct 2018 20:04

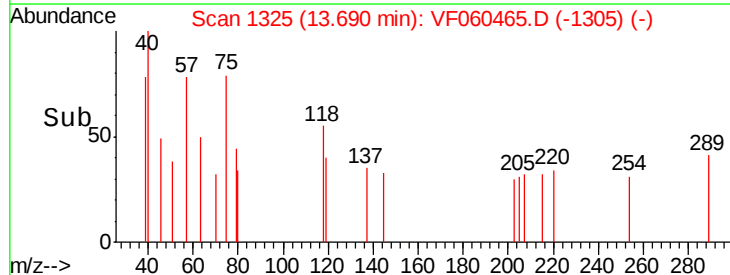
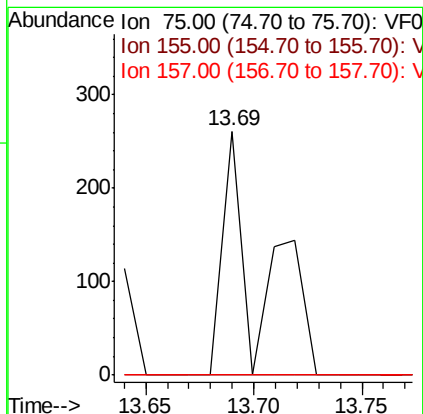
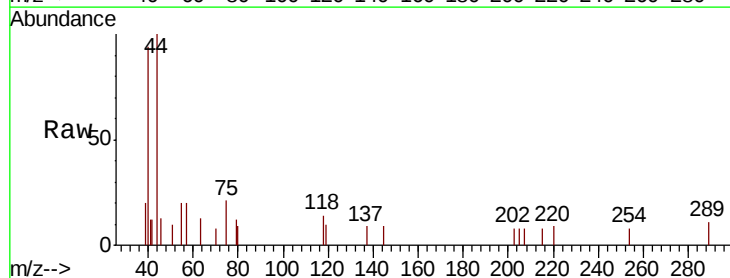
Instrument :
 MSVOA_F
 ClientSampleId :
 STOCK-PILE-CRE

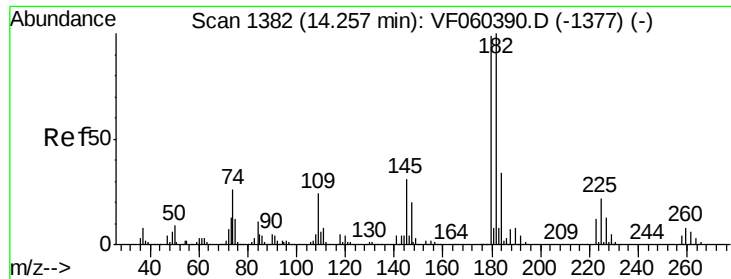
Tot Ion:146 Resp: 525
 Ion Ratio Lower Upper
 146 100
 111 51.7 21.3 64.0
 148 0.0 32.2 96.6#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 45.827 ug/l
 RT: 13.69 min Scan# 1325
 Delta R.T. -0.01 min
 Lab File: VF060465.D
 Acq: 5 Oct 2018 20:04

Tgt Ion: 75 Resp: 321
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.9 113.6#
 157 0.0 51.3 154.0#

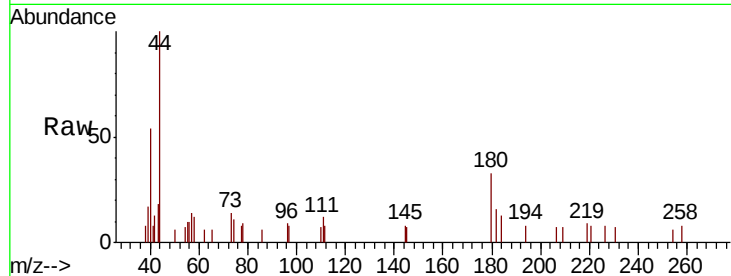




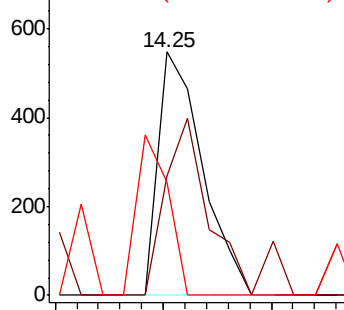
#93
 1,2,4-Trichlorobenzene
 Concen: 13.132 ug/l
 RT: 14.25 min Scan# 1382
 Delta R.T. -0.01 min
 Lab File: VF060465.D
 Acq: 5 Oct 2018 20:04

Instrument :
 MSVOA_F
 ClientSampleId :
 STOCK-PILE-CRE

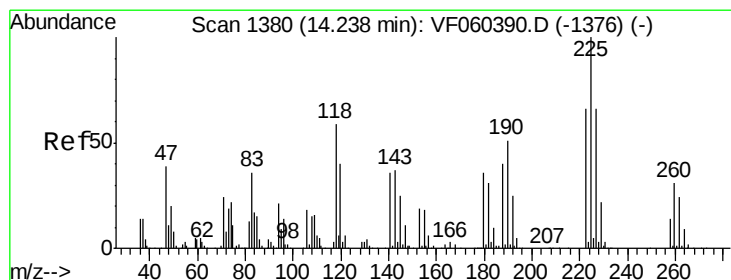
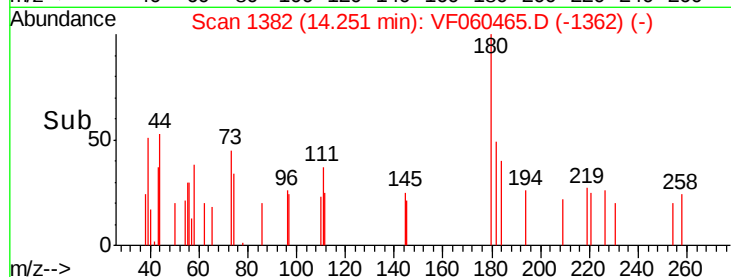
Tot Ion:180 Resp: 784
 Ion Ratio Lower Upper
 180 100
 182 49.1 50.3 150.9#
 145 46.4 15.5 46.5



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

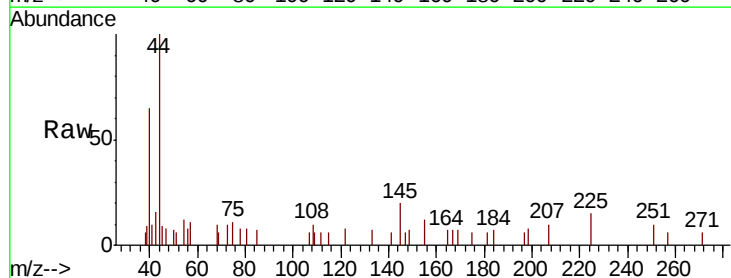


Time--> 14.20 14.25 14.30

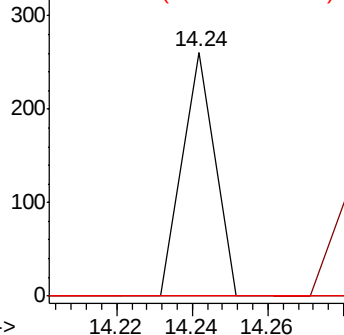


#94
 Hexachlorobutadiene
 Concen: 3.696 ug/l
 RT: 14.24 min Scan# 1381
 Delta R.T. 0.00 min
 Lab File: VF060465.D
 Acq: 5 Oct 2018 20:04

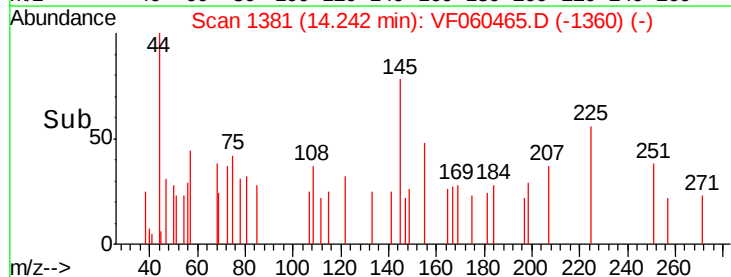
Tgt Ion:225 Resp: 154
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.8 98.4#
 227 0.0 33.0 99.0#

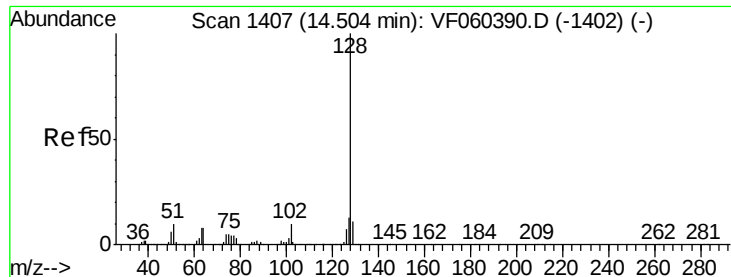


Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V



Time--> 14.22 14.24 14.26





#95

Naphthalene

Concen: 20.798 ug/l

RT: 14.51 min Scan# 1408

Delta R.T. 0.00 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

Instrument :

MSVOA_F

ClientSampleId :

STOCK-PILE-CRE

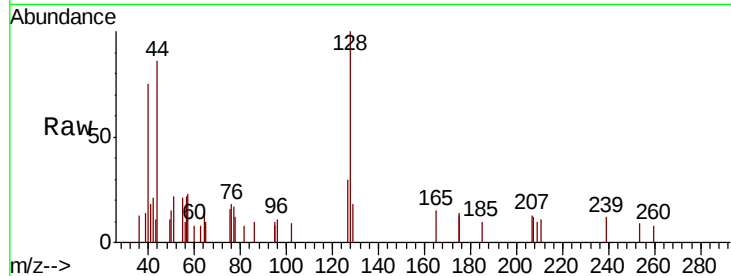
Tot Ion:128 Resp: 2220

Ion Ratio Lower Upper

128 100

127 30.5 10.0 15.0#

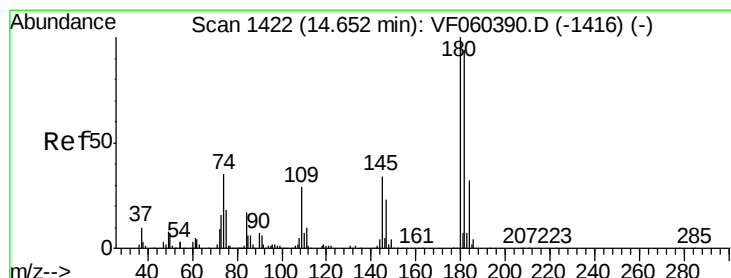
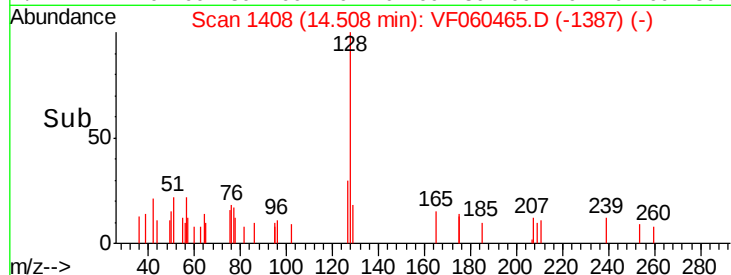
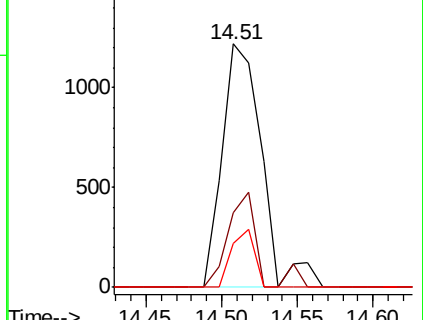
129 18.2 8.7 13.1#



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: 3.895 ug/l

RT: 14.67 min Scan# 1424

Delta R.T. 0.01 min

Lab File: VF060465.D

Acq: 5 Oct 2018 20:04

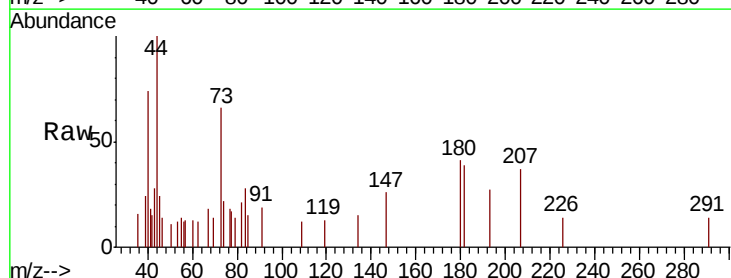
Tgt Ion:180 Resp: 218

Ion Ratio Lower Upper

180 100

182 93.8 46.8 140.3

145 0.0 16.9 50.6#



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

