

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111618\
 Data File : VD060408.D
 Acq On : 16 Nov 2018 19:56
 Operator : JC/SY
 Sample : J5970-04RE
 Misc : 4.64g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-028-BRE

Quant Time: Nov 17 03:04:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1152475	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.45	114	1583402	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	1137817	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.38	152	410908	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.80	65	321632	38.98	ug/l	0.00
Spiked Amount			Recovery	=	77.96%	
35) Dibromofluoromethane	6.33	113	421976	35.74	ug/l	0.00
Spiked Amount			Recovery	=	71.48%	
50) Toluene-d8	9.46	98	1192516	34.51	ug/l	0.00
Spiked Amount			Recovery	=	69.02%	
62) 4-Bromofluorobenzene	12.43	95	371357	29.66	ug/l	-0.01
Spiked Amount			Recovery	=	59.32%	

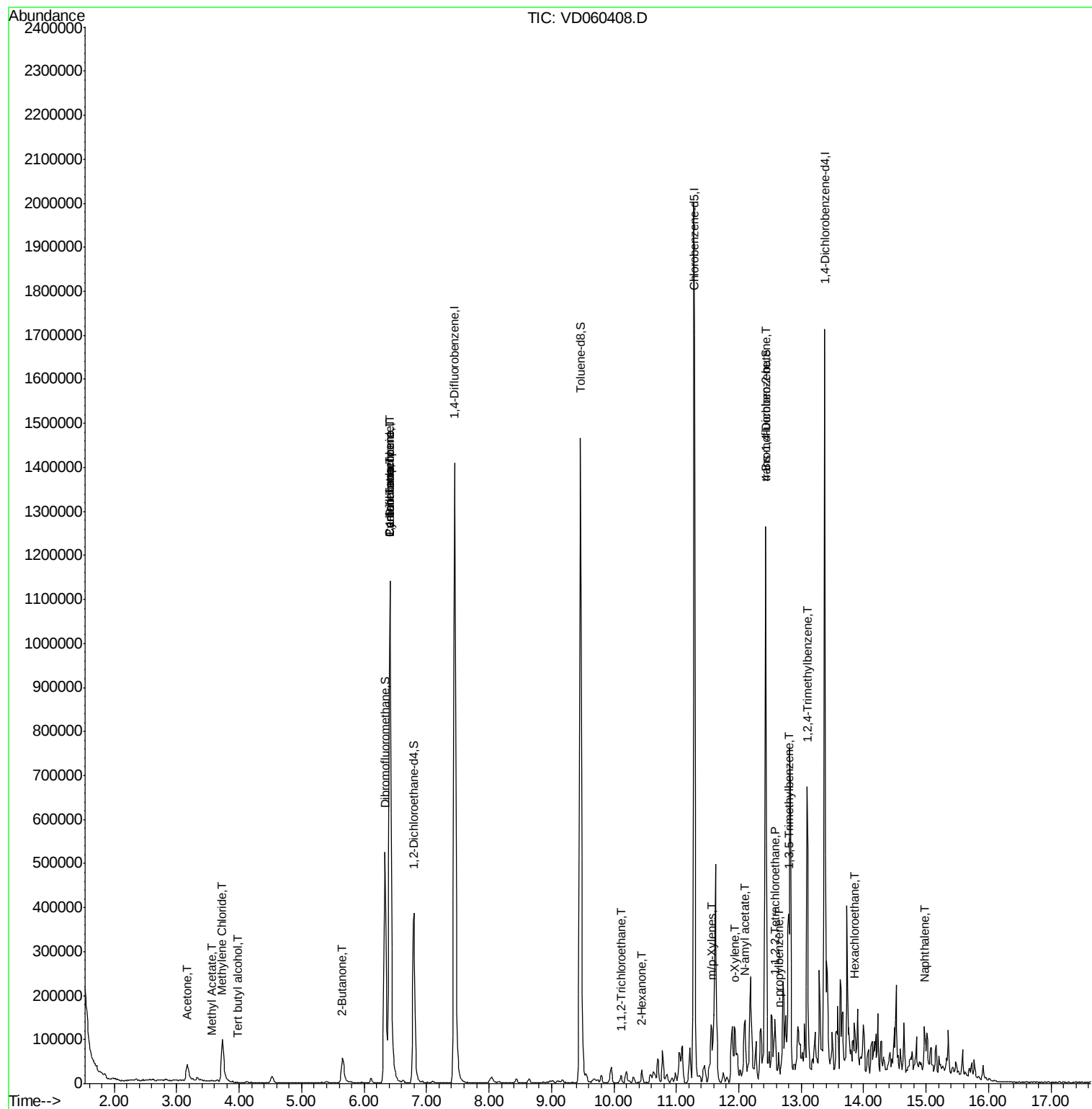
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	445	Below Cal	#	41
11) Tert butyl alcohol	3.97	59	412	1.216	ug/l #	70
16) Acetone	3.17	43	82060	57.329	ug/l	98
18) Methyl Acetate	3.56	43	4635	1.519	ug/l #	63
20) Methylene Chloride	3.74	84	65368	5.148	ug/l	96
25) 2-Butanone	5.64	43	9688	3.256	ug/l	95
31) Cyclohexane	6.41	56	25184	1.278	ug/l #	1
36) 1,1-Dichloropropene	6.41	75	76005	4.859	ug/l #	47
38) Carbon Tetrachloride	6.41	117	89226	6.149	ug/l #	16
55) 1,1,2-Trichloroethane	10.11	97	7527	1.018	ug/l #	21
59) 2-Hexanone	10.45	43	16216	3.866	ug/l #	31
68) m/p-Xylenes	11.56	106	32599	2.095	ug/l	95
69) o-Xylene	11.93	106	21744	1.447	ug/l	79
74) N-amyl acetate	12.09	43	23930	3.118	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	12.58	83	7782	1.589	ug/l #	62
78) n-propylbenzene	12.64	91	39257	1.051	ug/l	94
80) 1,3,5-Trimethylbenzene	12.80	105	135718	5.833	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.43	75	140904	100.688	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.09	105	303111	13.045	ug/l	99
90) Hexachloroethane	13.85	117	6073	1.004	ug/l #	9
95) Naphthalene	14.97	128	52405	4.658	ug/l	97

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

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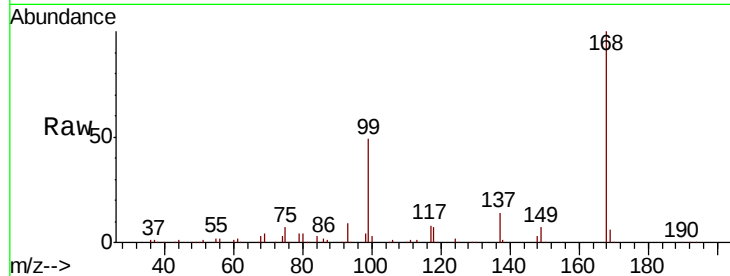


#1

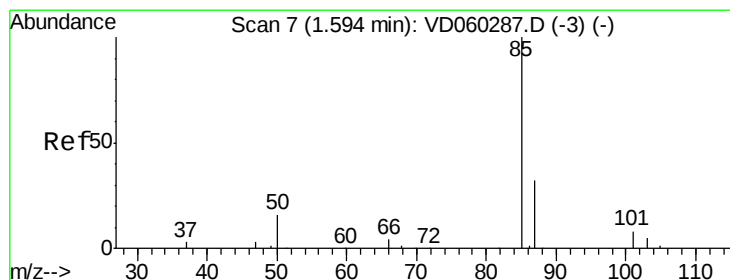
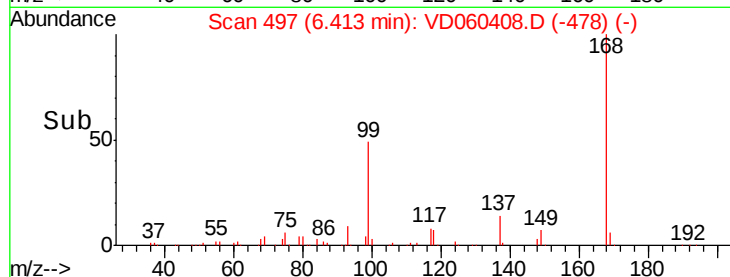
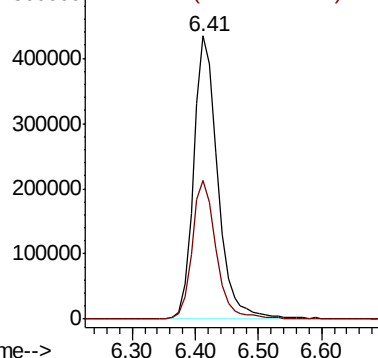
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 6.41 min Scan# 497
 Delta R.T. -0.01 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-028-BRE

Tot Ion:168 Resp: 1152475
 Ion Ratio Lower Upper
 168 100
 99 49.2 39.8 59.8



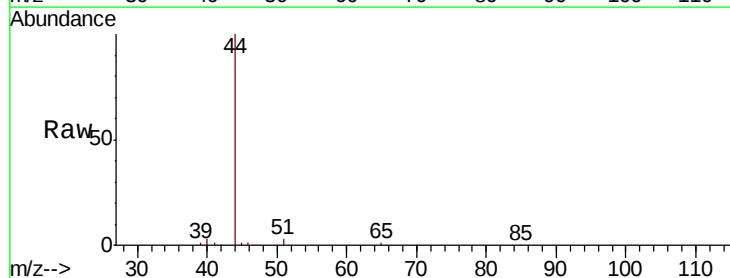
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.95 (98.65 to 99.65): VDC



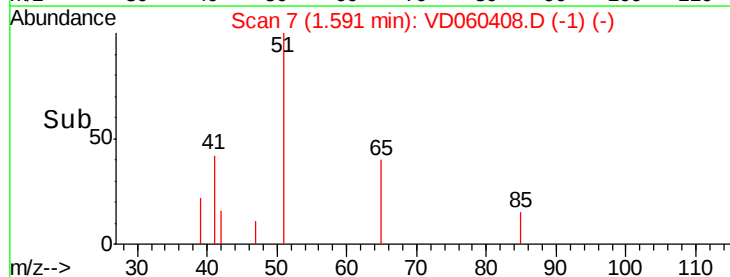
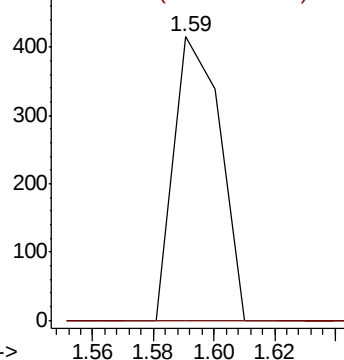
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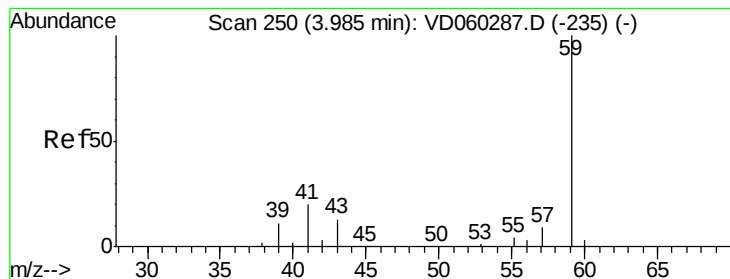
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.59 min Scan# 7
 Delta R.T. -0.00 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Tgt Ion: 85 Resp: 445
 Ion Ratio Lower Upper
 85 100
 87 0.0 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC
 Ion 86.90 (86.60 to 87.60): VDC



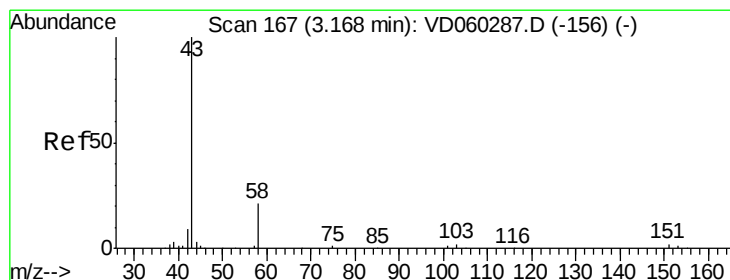
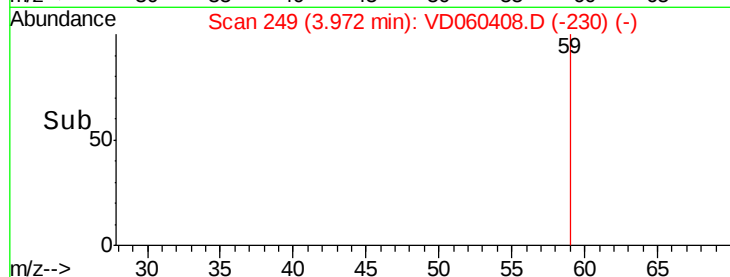
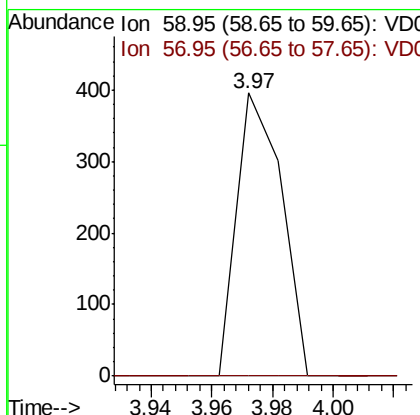
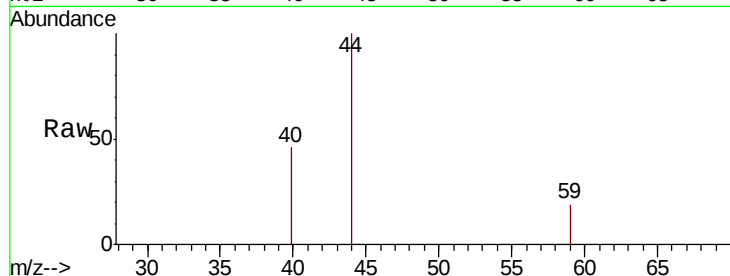


#11

Tert butyl alcohol
 Concen: 1.216 ug/l
 RT: 3.97 min Scan# 249
 Delta R.T. -0.01 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-028-BRE

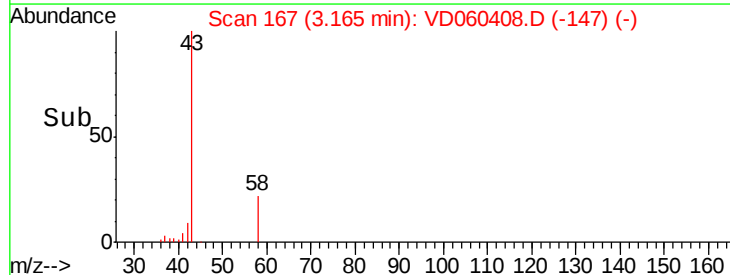
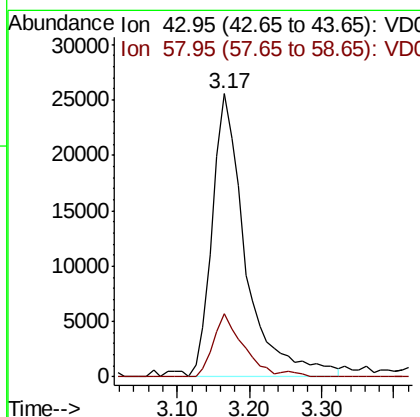
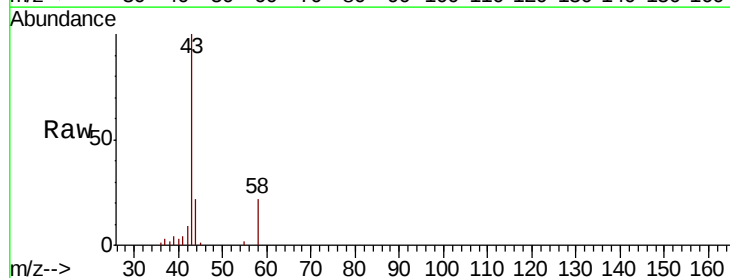
Tot Ion: 59 Resp: 412
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

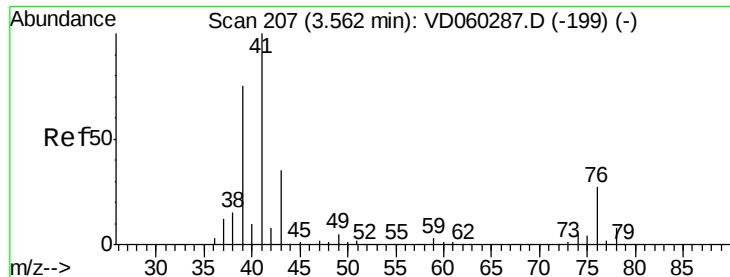


#16

Acetone
 Concen: 57.329 ug/l
 RT: 3.17 min Scan# 167
 Delta R.T. -0.00 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Tgt Ion: 43 Resp: 82060
 Ion Ratio Lower Upper
 43 100
 58 22.1 16.9 25.3

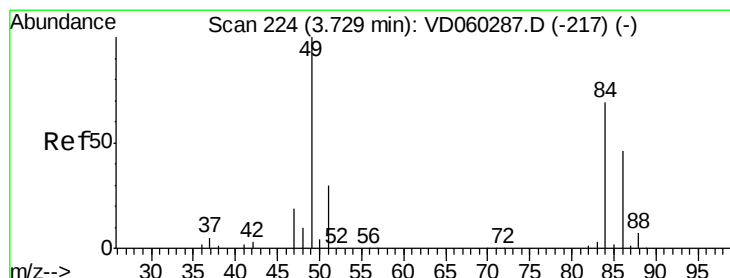
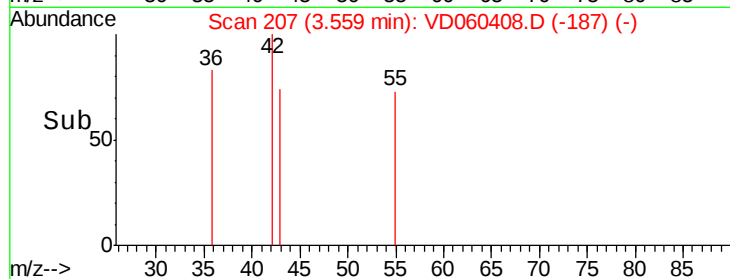
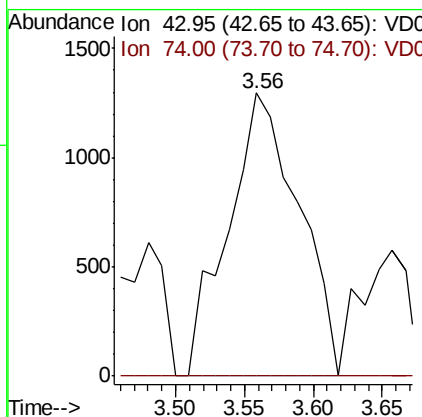
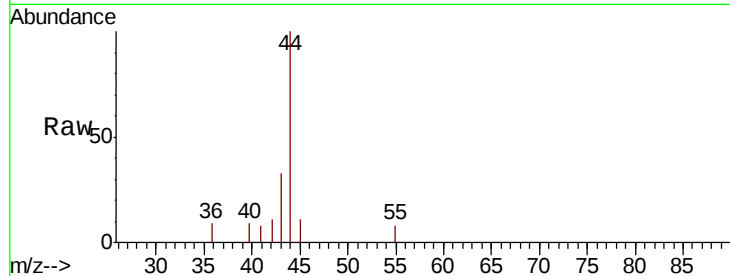




#18
Methyl Acetate
Concen: 1.519 ug/l
RT: 3.56 min Scan# 207
Delta R.T. -0.00 min
Lab File: VD060408.D
Acq: 16 Nov 2018 19:56

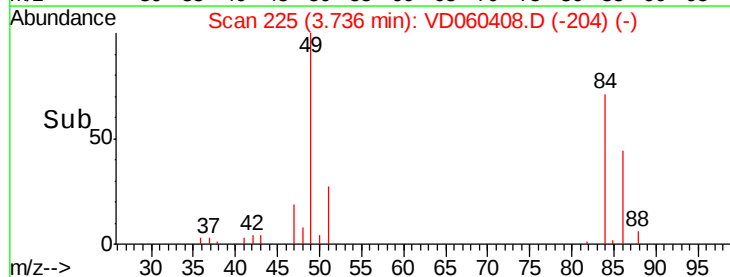
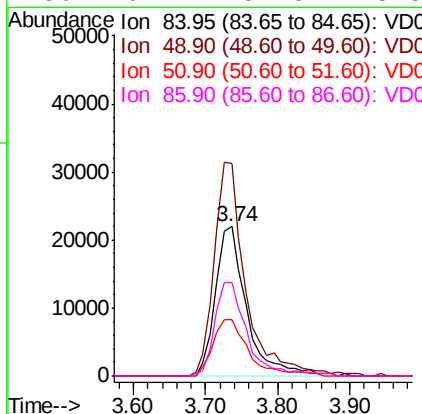
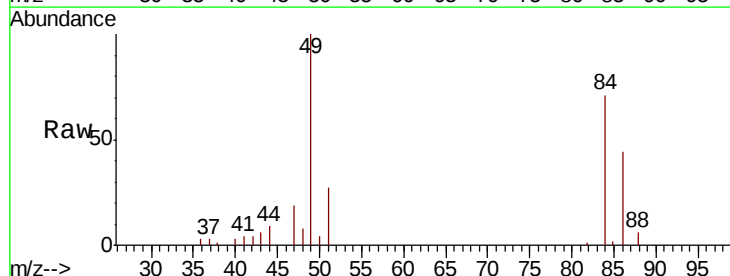
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-BRE

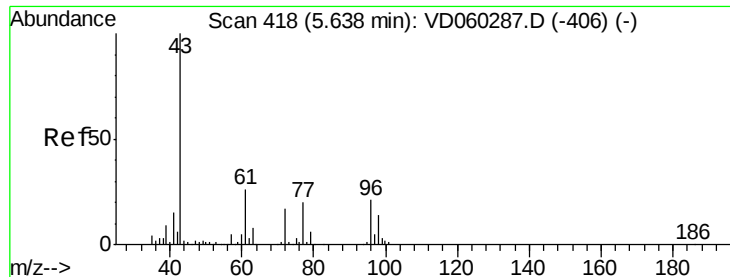
Tot Ion: 43 Resp: 4635
Ion Ratio Lower Upper
43 100
74 0.0 12.4 18.6#



#20
Methylene Chloride
Concen: 5.148 ug/l
RT: 3.74 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD060408.D
Acq: 16 Nov 2018 19:56

Tgt Ion: 84 Resp: 65368
Ion Ratio Lower Upper
84 100
49 141.6 115.6 173.4
51 37.7 35.6 53.4
86 62.4 52.3 78.5





#25

2-Butanone

Concen: 3.256 ug/l

RT: 5.64 min Scan# 418

Delta R.T. -0.00 min

Lab File: VD060408.D

Acq: 16 Nov 2018 19:56

Instrument :

MSVOA_D

ClientSampleId :

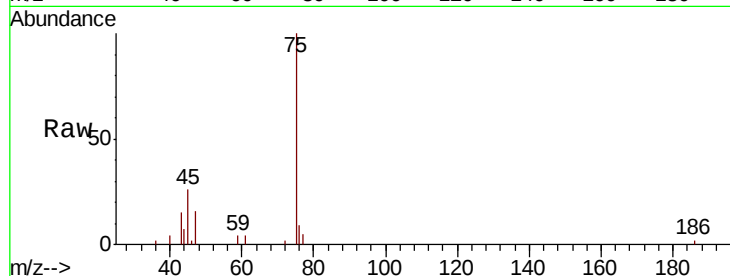
FK-GF-02-028-BRE

Tot Ion: 43 Resp: 9688

Ion Ratio Lower Upper

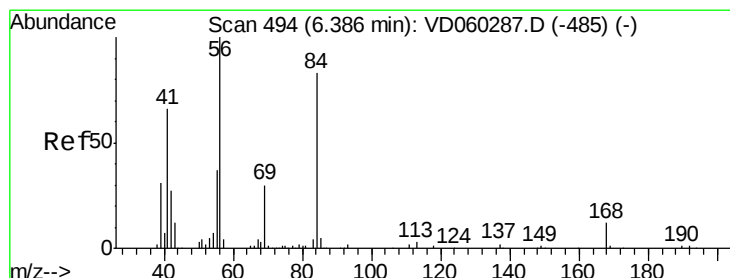
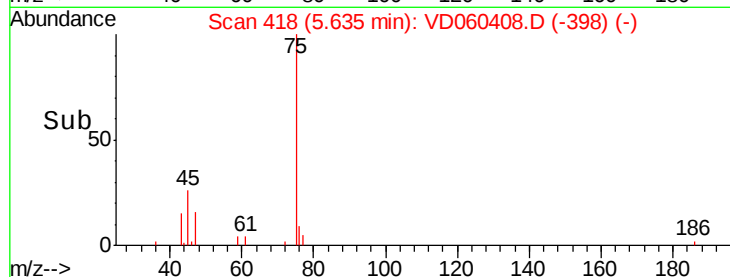
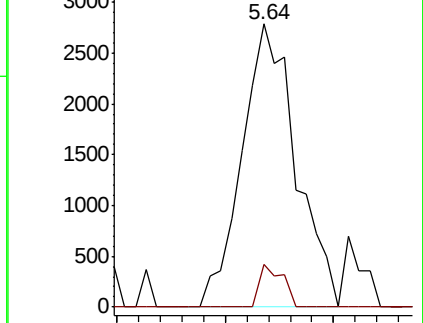
43 100

72 15.2 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.278 ug/l

RT: 6.41 min Scan# 497

Delta R.T. 0.03 min

Lab File: VD060408.D

Acq: 16 Nov 2018 19:56

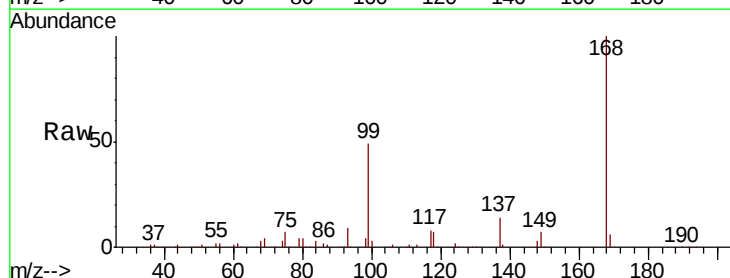
Tgt Ion: 56 Resp: 25184

Ion Ratio Lower Upper

56 100

69 216.1 22.2 33.2#

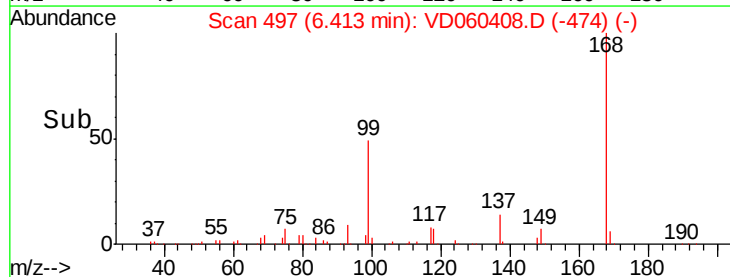
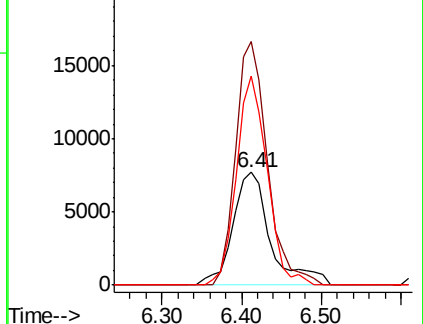
84 185.4 63.0 94.4#

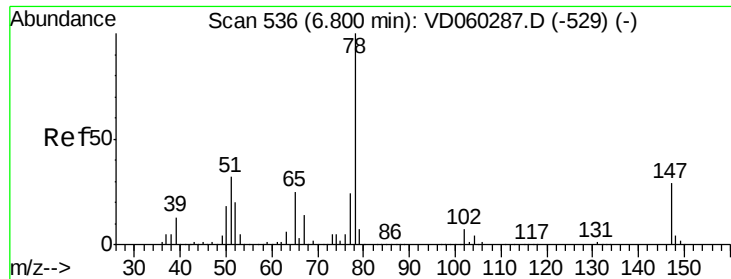


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

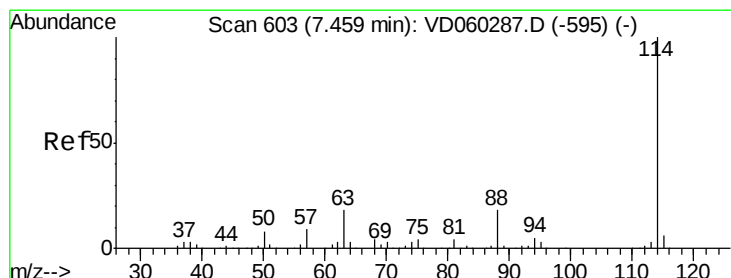
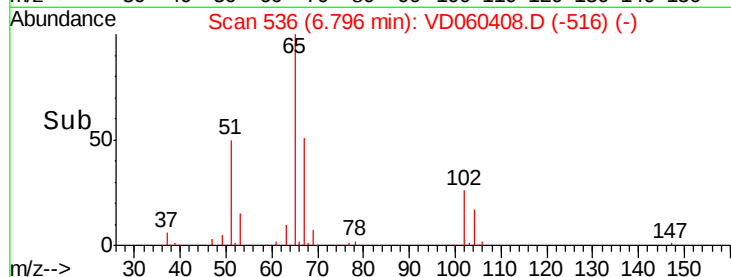
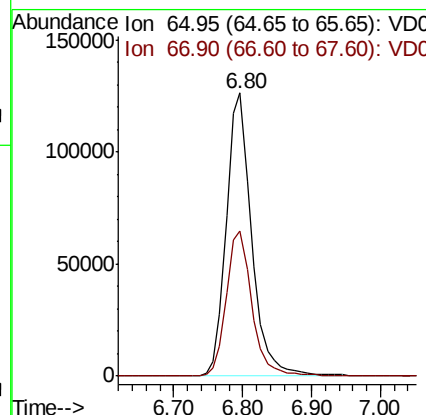
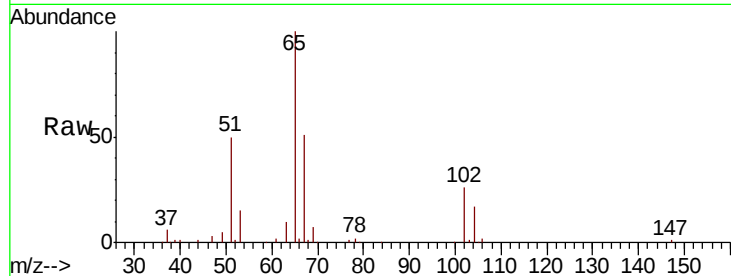




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.80 min Scan# 536
 Delta R.T. -0.00 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

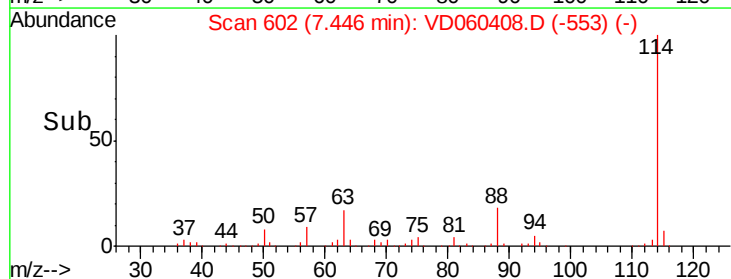
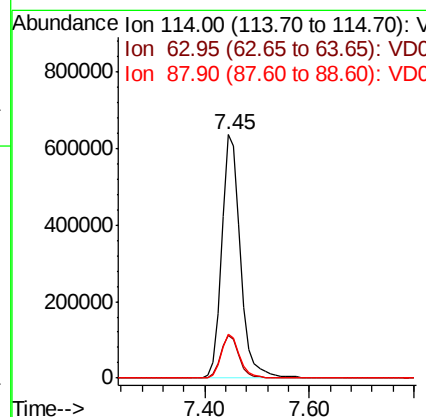
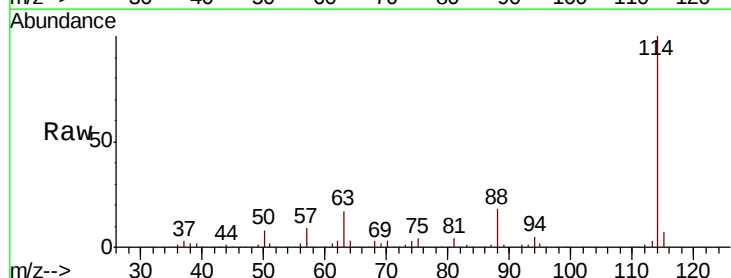
Instrument :
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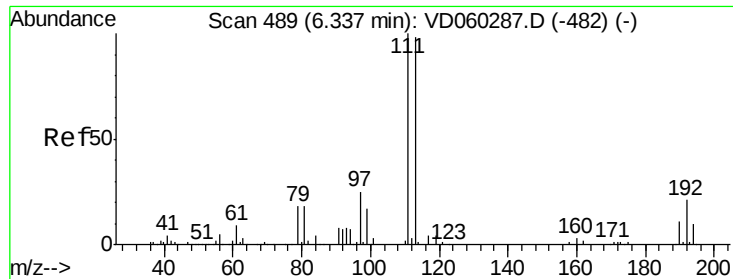
Tot Ion: 65 Resp: 321632
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.45 min Scan# 602
 Delta R.T. -0.01 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Tgt Ion: 114 Resp: 1583402
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 34.0
 88 18.1 0.0 35.4

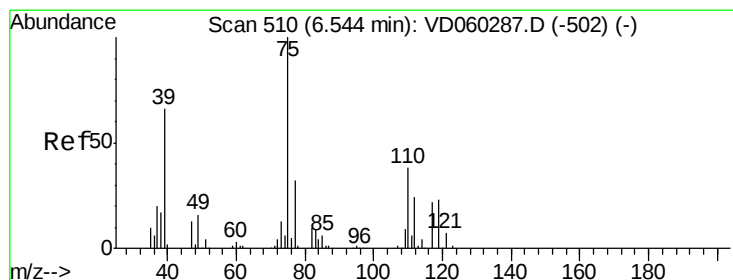
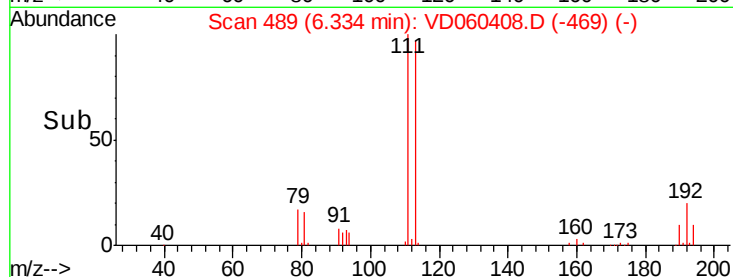
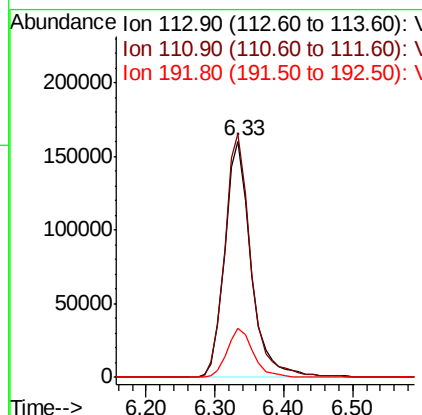
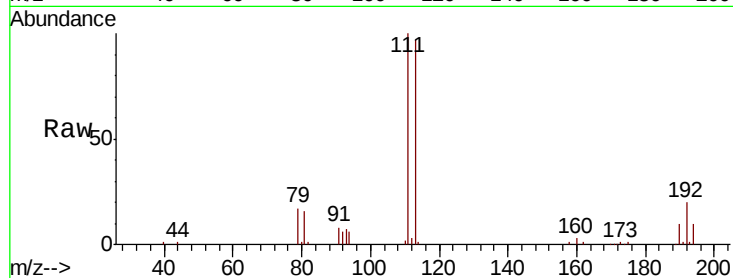




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.33 min Scan# 489
 Delta R.T. -0.00 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

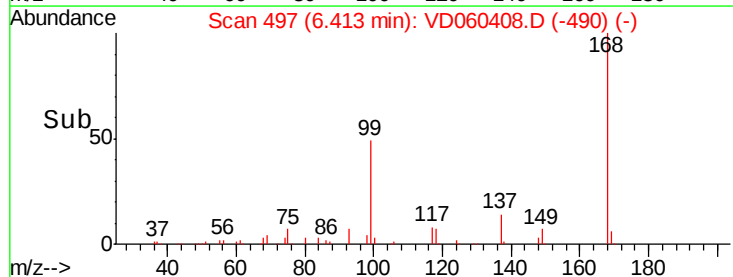
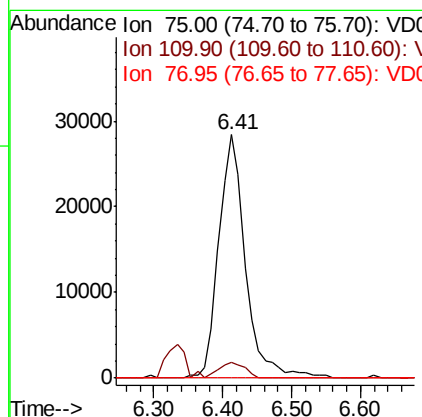
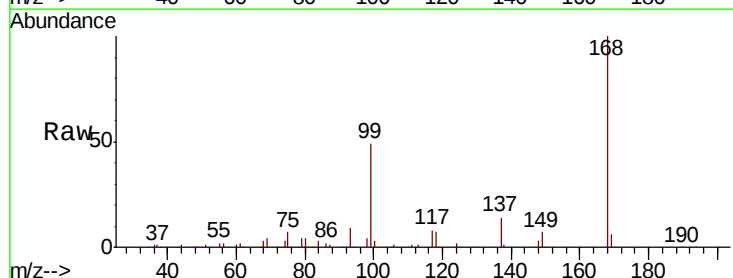
Instrument :
 MSVOA_D
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 FK-GF-02-028-BRE

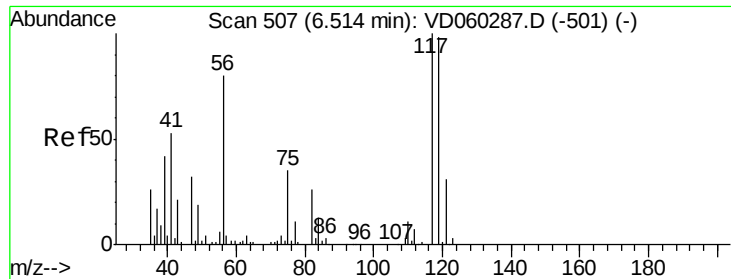
Tot Ion:113 Resp: 421976
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.6 122.4
 192 20.7 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 4.859 ug/l
 RT: 6.41 min Scan# 497
 Delta R.T. -0.13 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Tgt Ion: 75 Resp: 76005
 Ion Ratio Lower Upper
 75 100
 110 6.6 18.0 54.0#
 77 0.0 25.6 38.4#

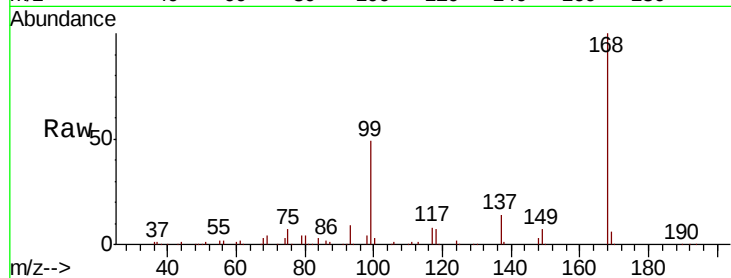




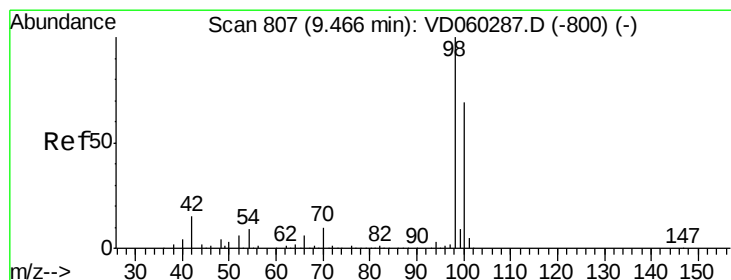
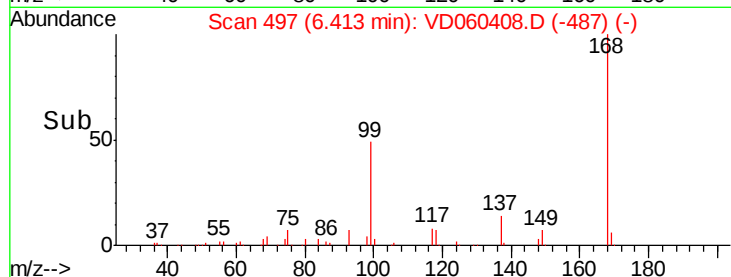
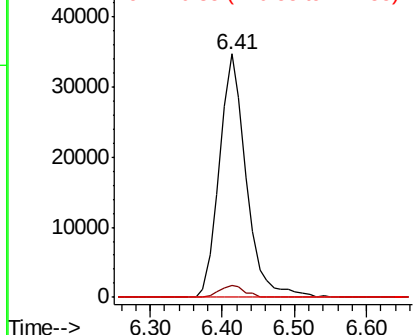
#38
Carbon Tetrachloride
Concen: 6.149 ug/l
RT: 6.41 min Scan# 497
Delta R.T. -0.10 min
Lab File: VD060408.D
Acq: 16 Nov 2018 19:56

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-BRE

Tot Ion:117 Resp: 89226
Ion Ratio Lower Upper
117 100
119 5.2 76.6 115.0#
121 0.0 24.3 36.5#

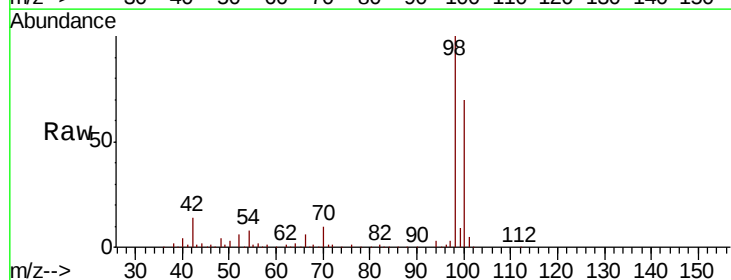


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

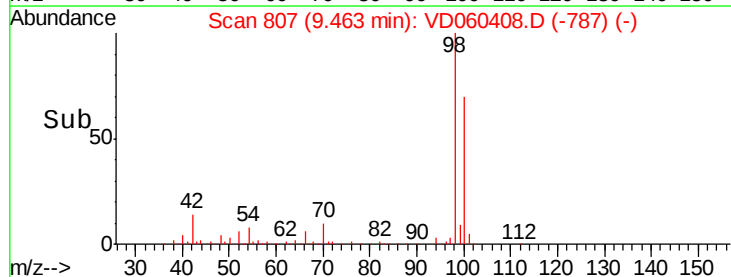
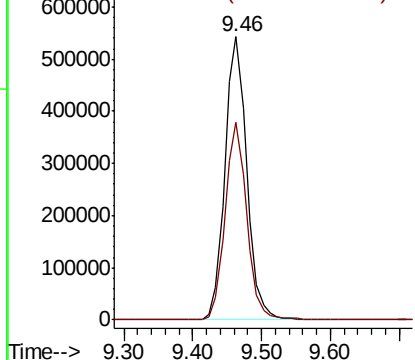


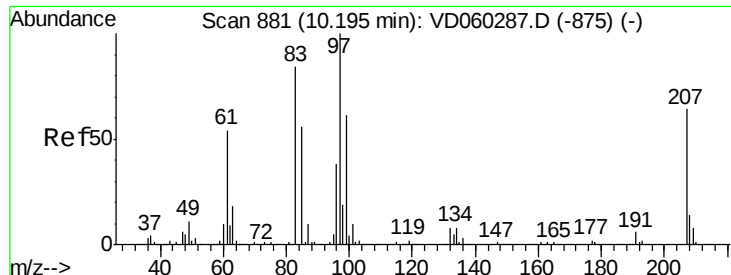
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 807
Delta R.T. -0.00 min
Lab File: VD060408.D
Acq: 16 Nov 2018 19:56

Tgt Ion: 98 Resp: 1192516
Ion Ratio Lower Upper
98 100
100 69.7 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V

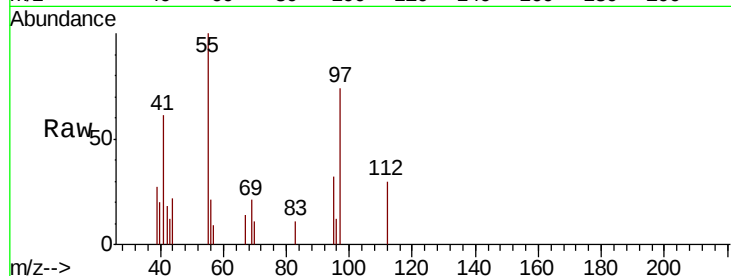




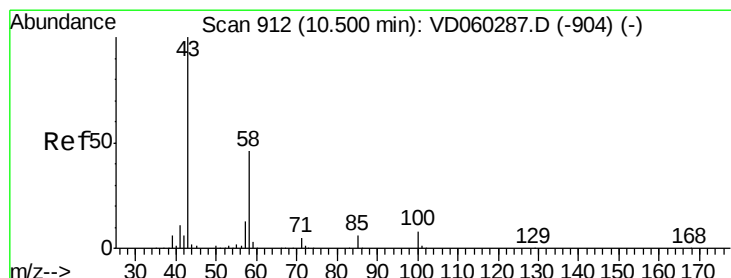
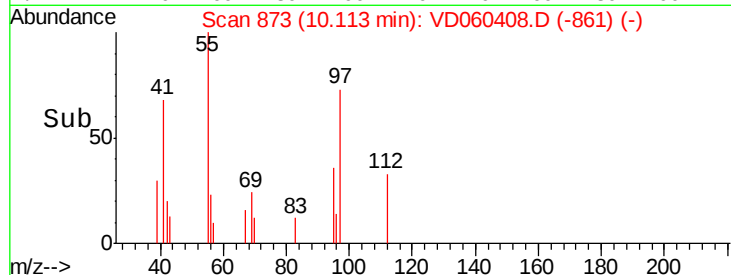
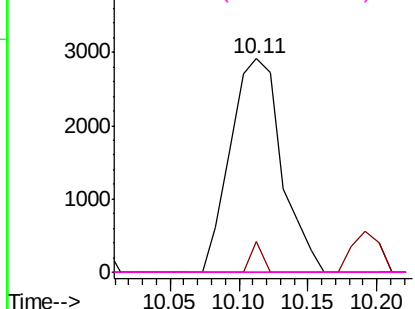
#55
 1,1,2-Trichloroethane
 Concen: 1.018 ug/l
 RT: 10.11 min Scan# 873
 Delta R.T. -0.08 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-028-BRE

Tot Ion: 97 Resp: 7527
 Ion Ratio Lower Upper
 97 100
 83 14.5 68.4 102.6#
 85 0.0 46.8 70.2#
 99 0.0 49.5 74.3#

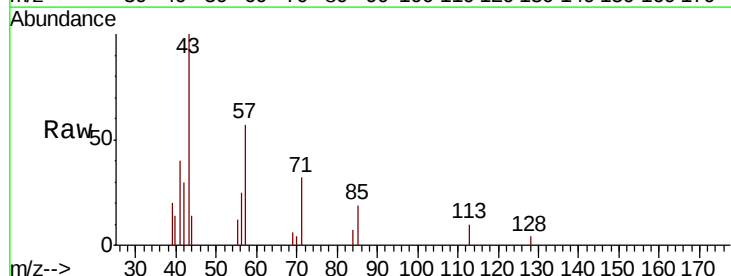


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

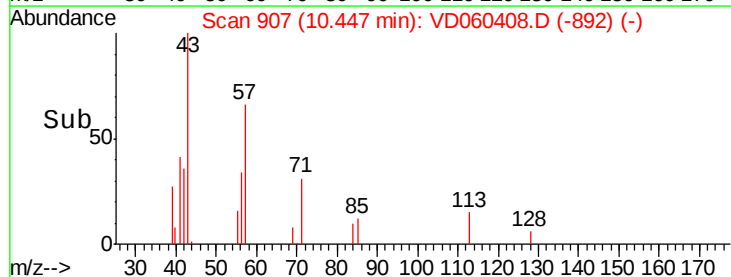
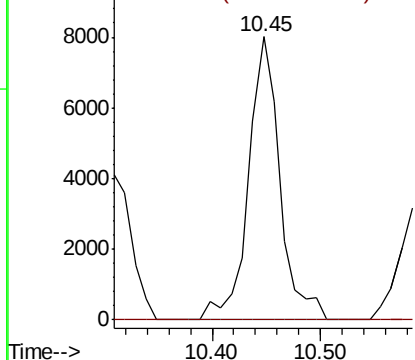


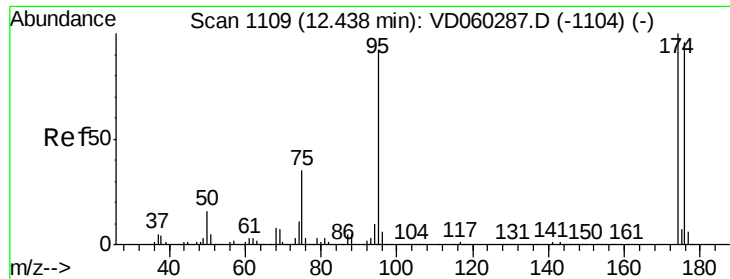
#59
 2-Hexanone
 Concen: 3.866 ug/l
 RT: 10.45 min Scan# 907
 Delta R.T. -0.05 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Tgt Ion: 43 Resp: 16216
 Ion Ratio Lower Upper
 43 100
 58 0.0 22.9 68.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC

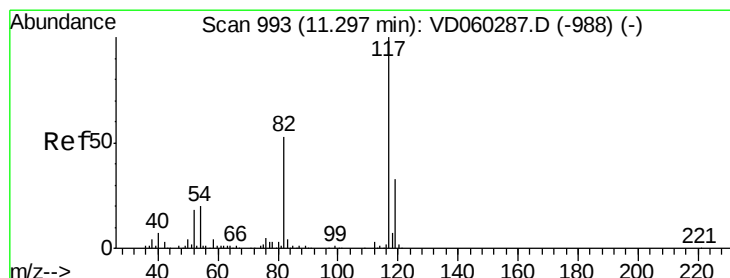
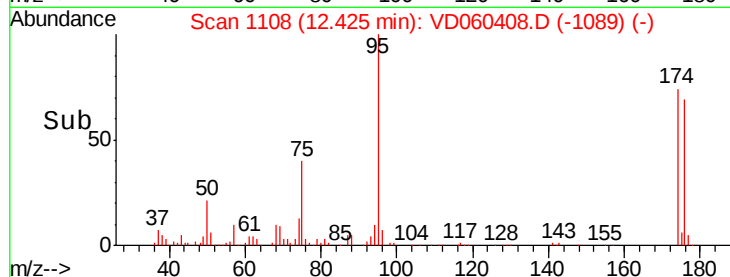
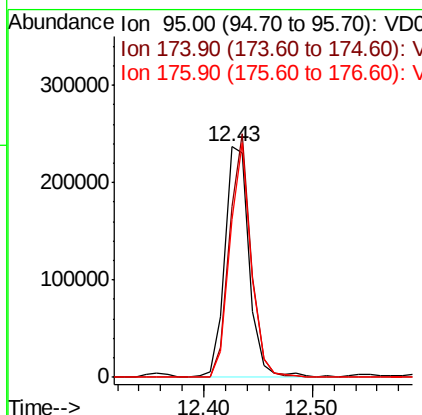
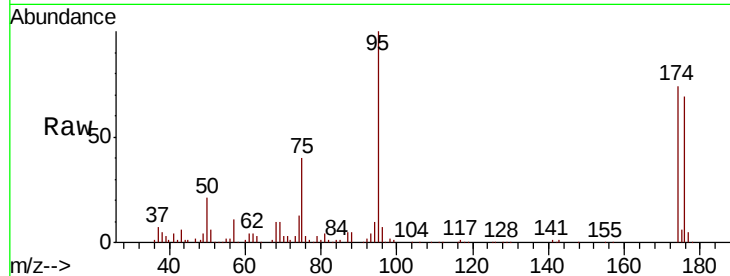




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.43 min Scan# 1108
Delta R.T. -0.01 min
Lab File: VD060408.D
Acq: 16 Nov 2018 19:56

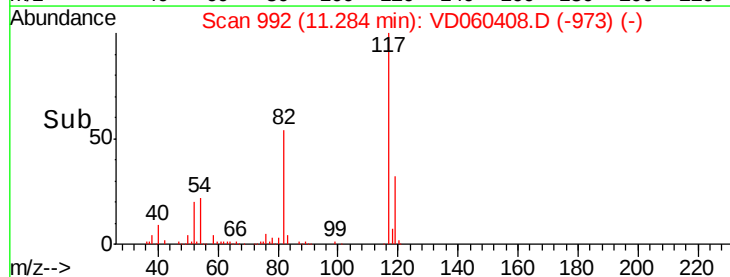
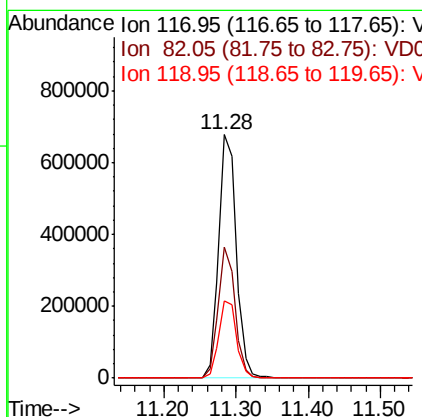
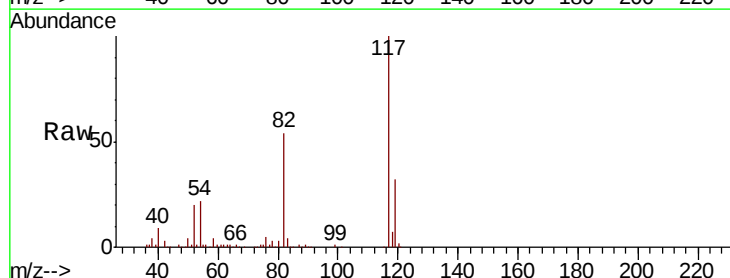
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-BRE

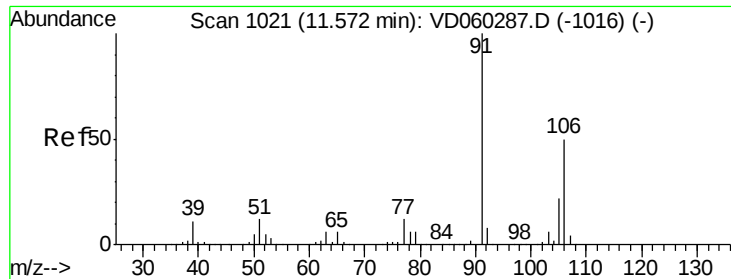
Tot Ion: 95 Resp: 371357
Ion Ratio Lower Upper
95 100
174 74.2 0.0 160.8
176 68.7 0.0 154.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 992
Delta R.T. -0.01 min
Lab File: VD060408.D
Acq: 16 Nov 2018 19:56

Tgt Ion: 117 Resp: 1137817
Ion Ratio Lower Upper
117 100
82 53.6 43.7 65.5
119 31.8 26.1 39.1

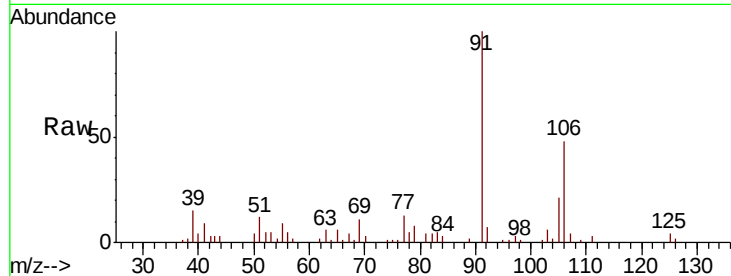




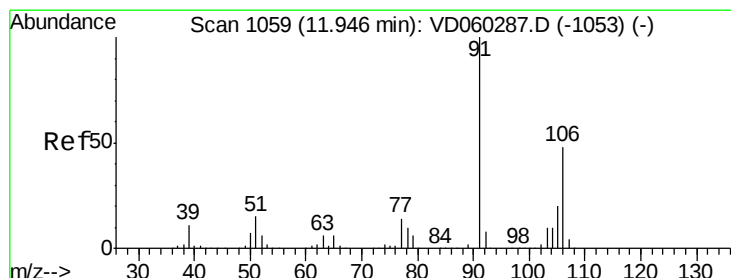
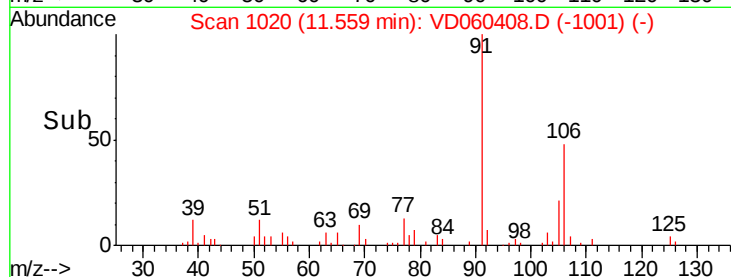
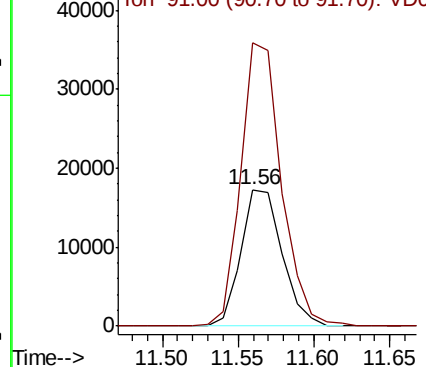
#68
m/p-Xylenes
Concen: 2.095 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. -0.01 min
Lab File: VD060408.D
Acq: 16 Nov 2018 19:56

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-028-BRE

Tot Ion:106 Resp: 32599
Ion Ratio Lower Upper
106 100
91 207.2 159.4 239.2

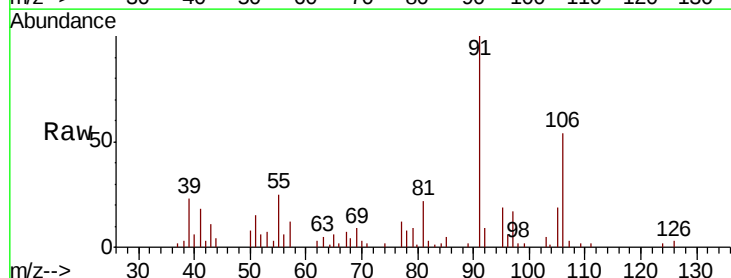


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

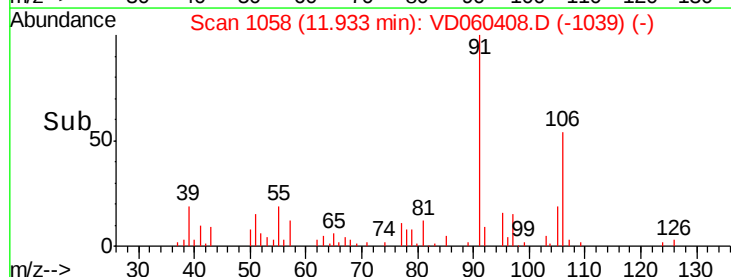
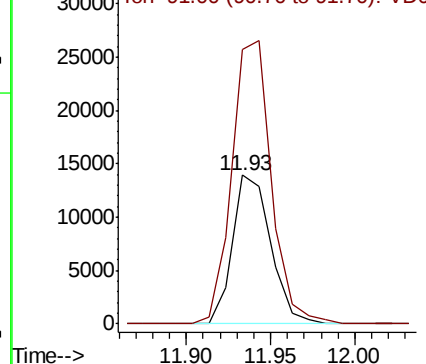


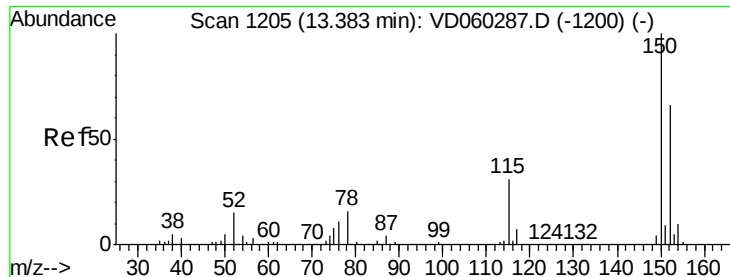
#69
o-Xylene
Concen: 1.447 ug/l
RT: 11.93 min Scan# 1058
Delta R.T. -0.01 min
Lab File: VD060408.D
Acq: 16 Nov 2018 19:56

Tgt Ion:106 Resp: 21744
Ion Ratio Lower Upper
106 100
91 184.6 109.2 327.6



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.38 min Scan# 1205

Delta R.T. -0.00 min

Lab File: VD060408.D

Acq: 16 Nov 2018 19:56

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-028-BRE

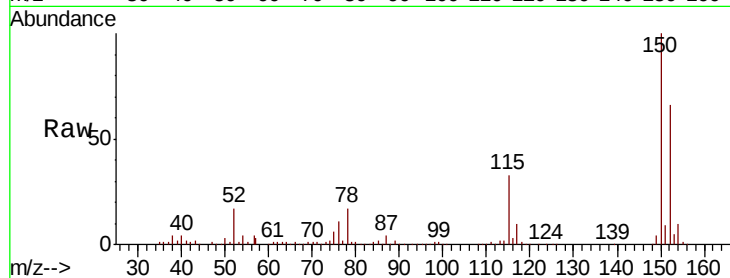
Tot Ion:152 Resp: 410908

Ion Ratio Lower Upper

152 100

115 49.7 24.1 72.3

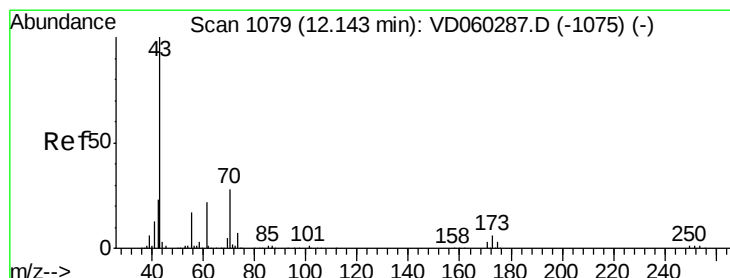
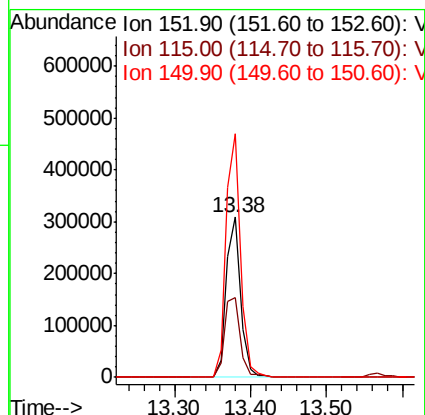
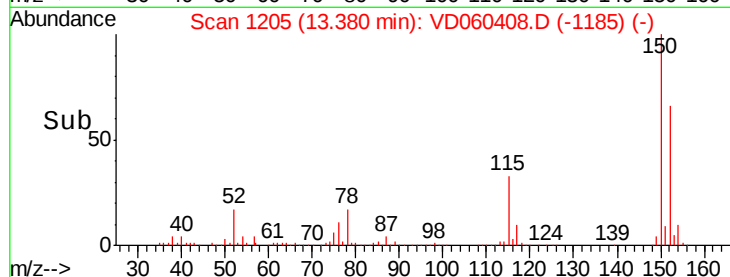
150 152.3 0.0 310.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.118 ug/l

RT: 12.09 min Scan# 1074

Delta R.T. -0.05 min

Lab File: VD060408.D

Acq: 16 Nov 2018 19:56

Tgt Ion: 43 Resp: 23930

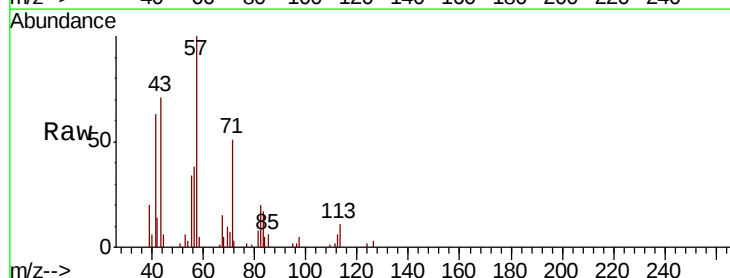
Ion Ratio Lower Upper

43 100

70 10.4 23.0 34.4#

55 47.5 14.2 21.4#

61 0.0 17.8 26.8#

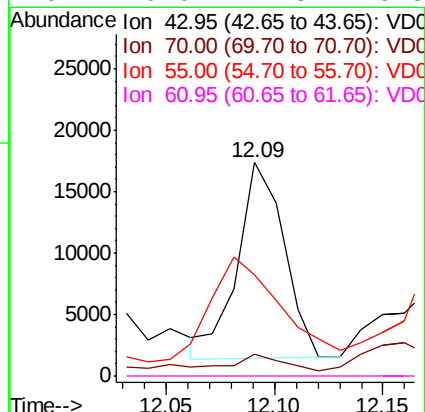
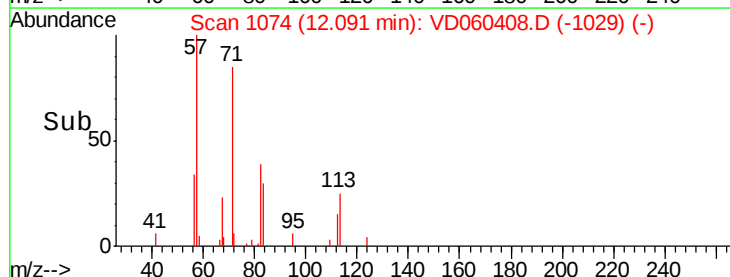


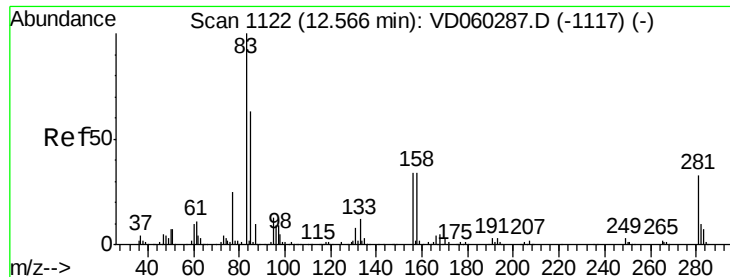
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 1.589 ug/l

RT: 12.58 min Scan# 1124

Delta R.T. 0.02 min

Lab File: VD060408.D

Acq: 16 Nov 2018 19:56

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-028-BRE

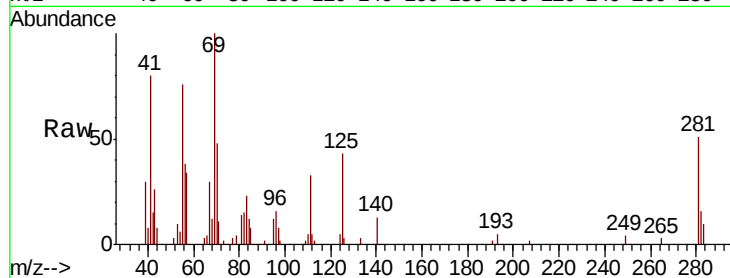
Tot Ion: 83 Resp: 7782

Ion Ratio Lower Upper

83 100

131 0.0 3.9 11.5#

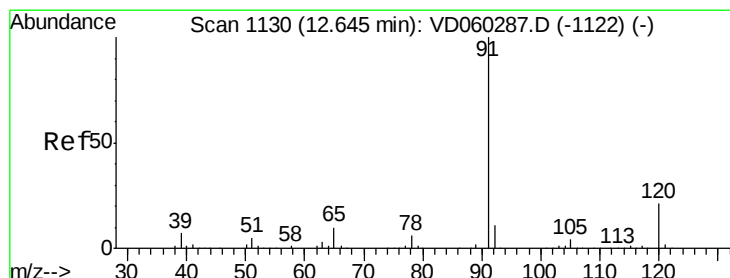
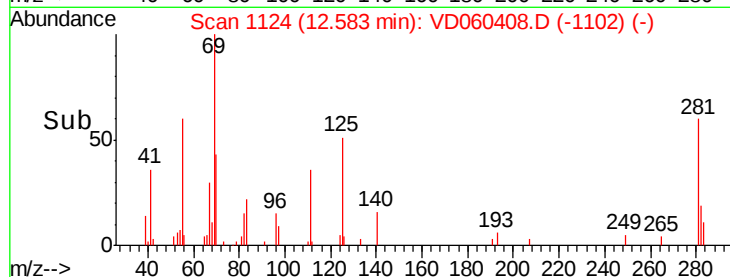
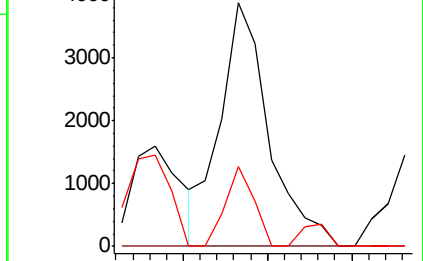
85 32.9 32.0 96.0



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#78

n-propylbenzene

Concen: 1.051 ug/l

RT: 12.64 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VD060408.D

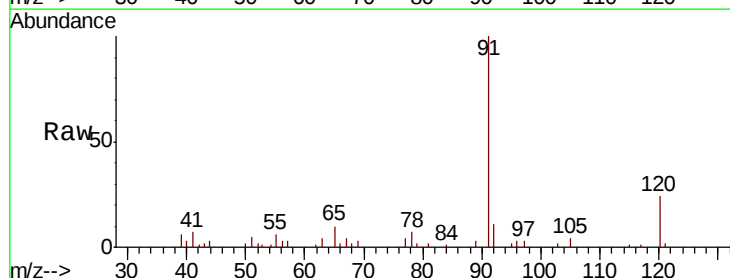
Acq: 16 Nov 2018 19:56

Tgt Ion: 91 Resp: 39257

Ion Ratio Lower Upper

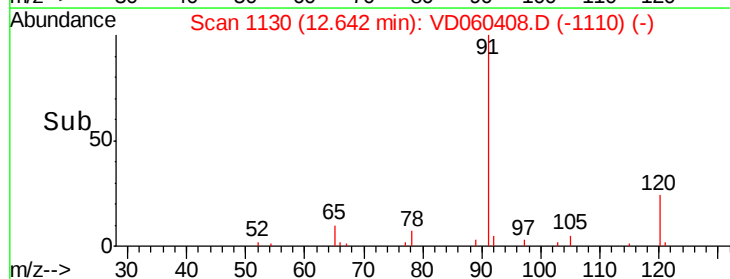
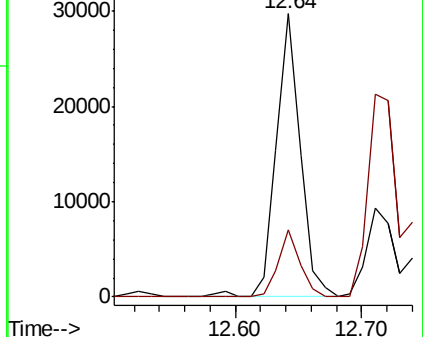
91 100

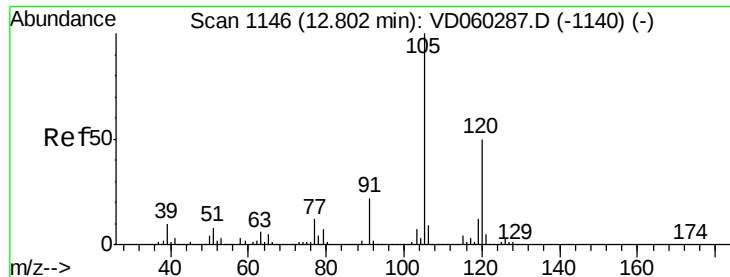
120 23.6 10.4 31.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC

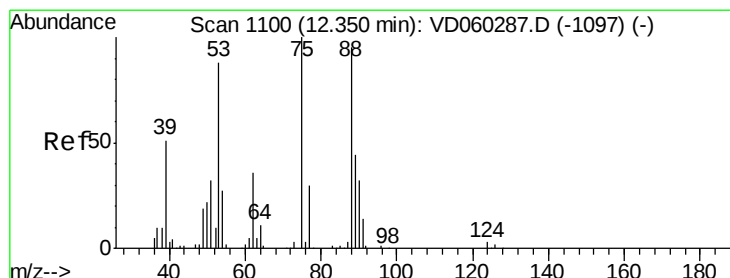
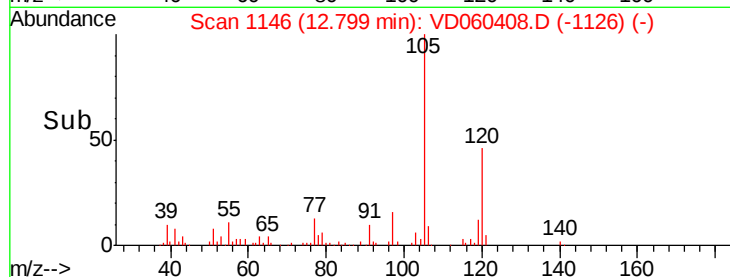
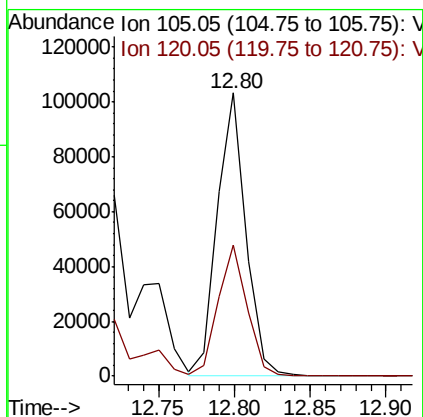
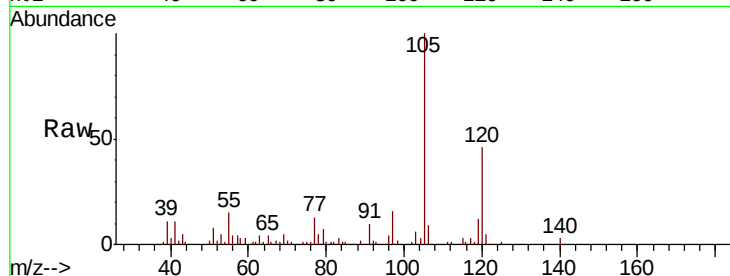




#80
 1,3,5-Trimethylbenzene
 Concen: 5.833 ug/l
 RT: 12.80 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

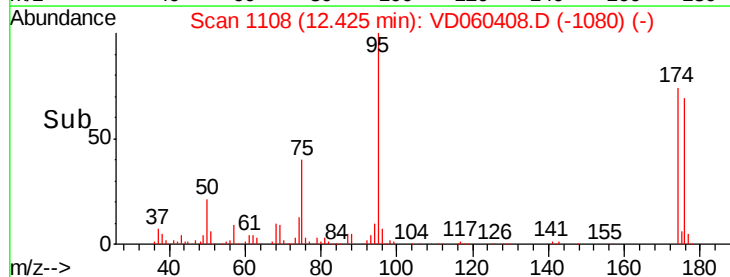
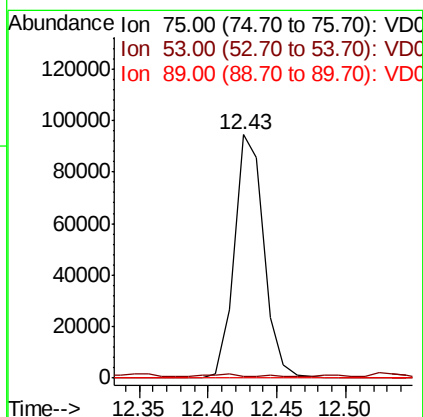
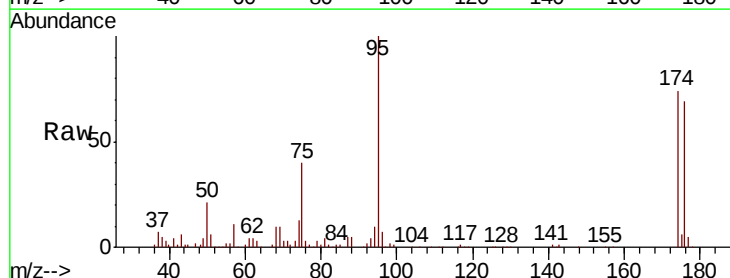
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-028-BRE

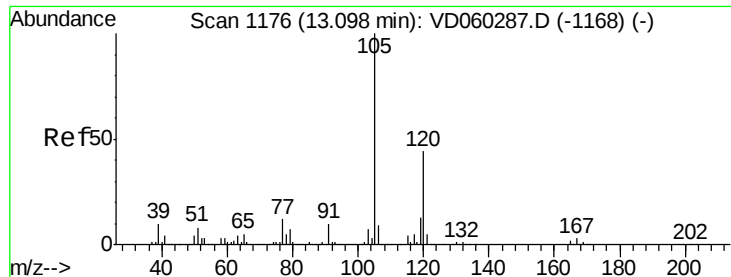
Tot Ion:105 Resp: 135718
 Ion Ratio Lower Upper
 105 100
 120 46.5 24.4 73.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.688 ug/l
 RT: 12.43 min Scan# 1108
 Delta R.T. 0.08 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Tgt Ion: 75 Resp: 140904
 Ion Ratio Lower Upper
 75 100
 53 0.8 68.6 103.0#
 89 0.0 34.1 51.1#

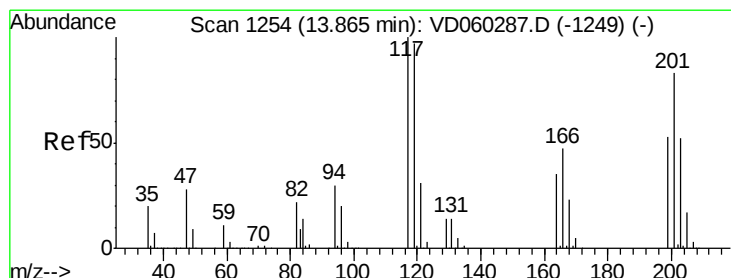
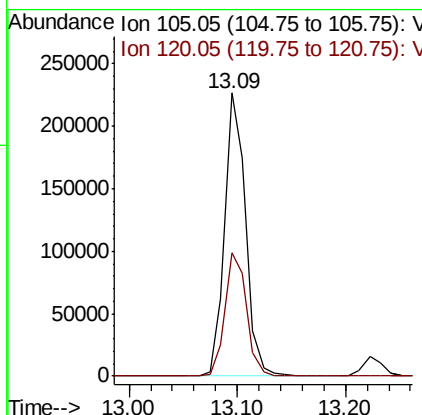
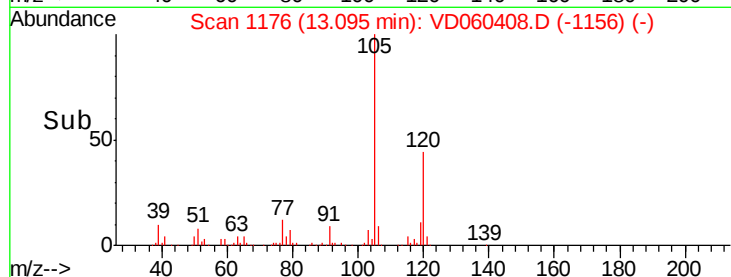
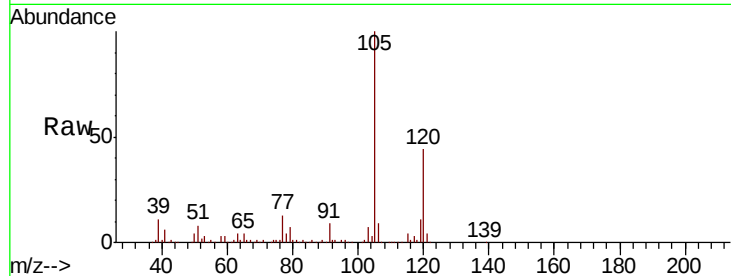




#84
 1,2,4-Trimethylbenzene
 Concen: 13.045 ug/l
 RT: 13.09 min Scan# 1176
 Delta R.T. -0.00 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

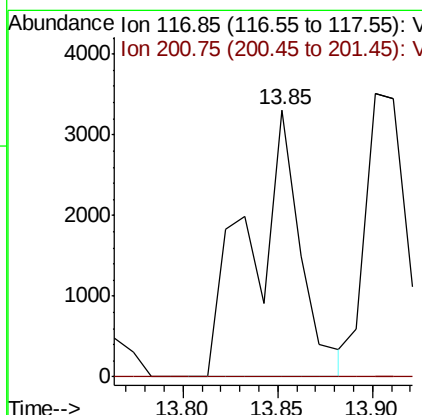
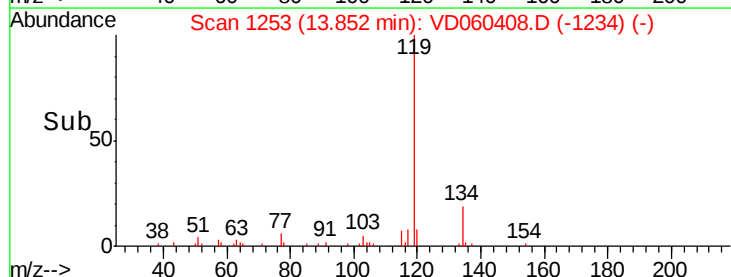
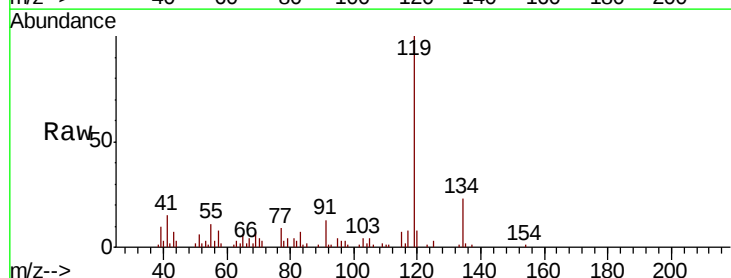
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-028-BRE

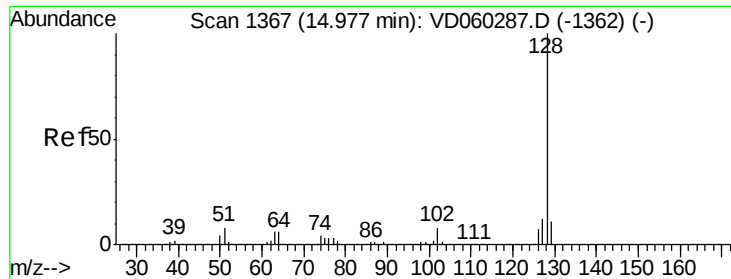
Tot Ion:105 Resp: 303111
 Ion Ratio Lower Upper
 105 100
 120 43.6 21.9 65.8



#90
 Hexachloroethane
 Concen: 1.004 ug/l
 RT: 13.85 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: VD060408.D
 Acq: 16 Nov 2018 19:56

Tgt Ion:117 Resp: 6073
 Ion Ratio Lower Upper
 117 100
 201 0.0 40.1 120.3#





#95

Naphthalene

Concen: 4.658 ug/l

RT: 14.97 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VD060408.D

Acq: 16 Nov 2018 19:56

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-028-BRE

Tot Ion:128 Resp: 52405

Ion Ratio Lower Upper

128 100

127 13.3 9.6 14.4

129 11.6 8.6 12.8

