

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD041719\
 Data File : VD061847.D
 Acq On : 17 Apr 2019 12:39
 Operator : VA/AP
 Sample : K2347-01
 Misc : 5.09g/5ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BCOG01

Quant Time: Apr 17 13:23:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	10328	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	8.21	114	19225	50.00	ug/l	-0.05
63) Chlorobenzene-d5	12.37	117	15512	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.51	152	9676	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	6249	72.19	ug/l	-0.04
Spiked Amount 50.000			Recovery =	144.38%		
35) Dibromofluoromethane	6.91	113	6587	45.35	ug/l	-0.06
Spiked Amount 50.000			Recovery =	90.70%		
50) Toluene-d8	10.41	98	11709	34.02	ug/l	-0.04
Spiked Amount 50.000			Recovery =	68.04%		
62) 4-Bromofluorobenzene	13.47	95	3568	25.58	ug/l	-0.11
Spiked Amount 50.000			Recovery =	51.16%		

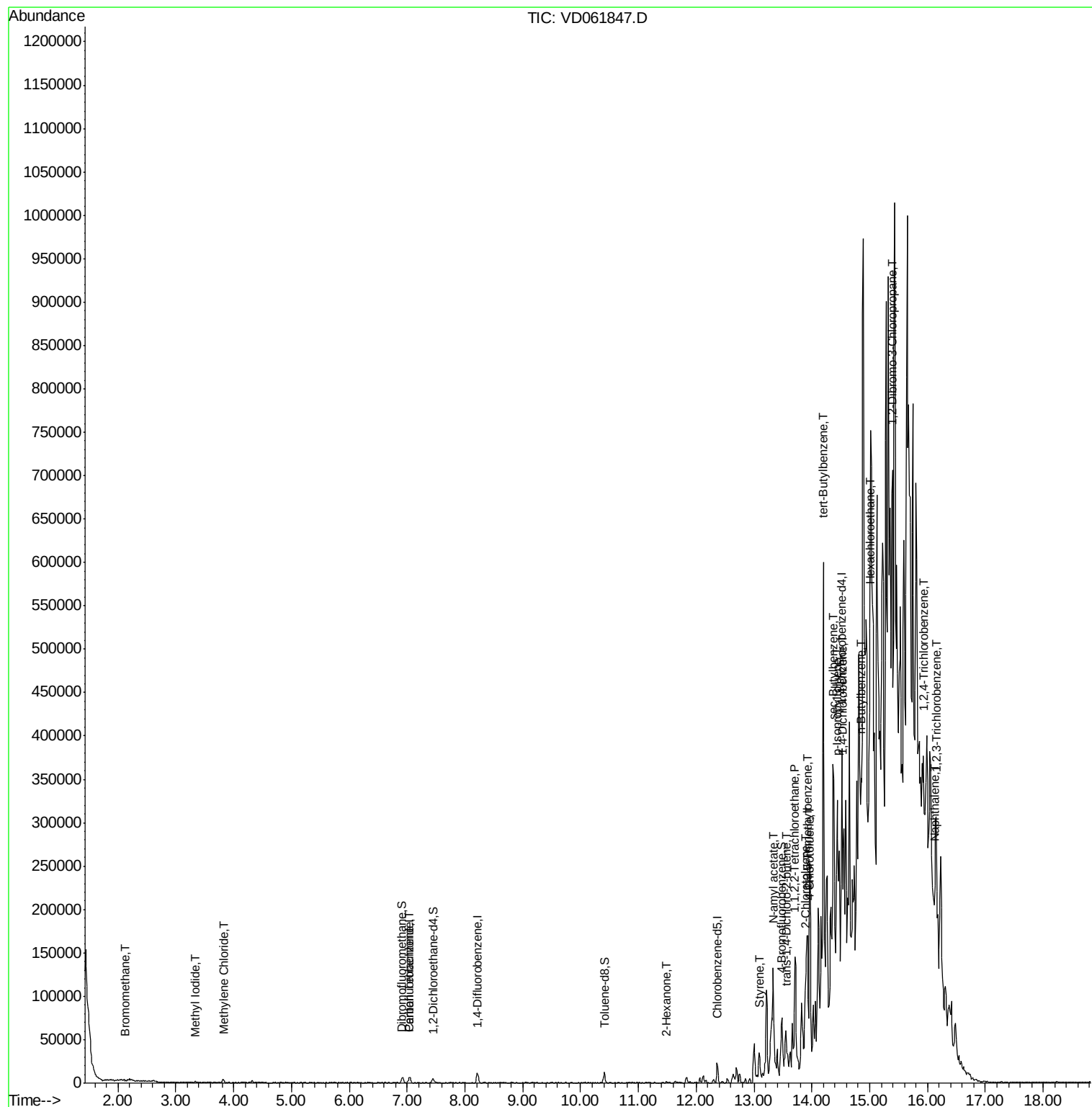
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.14	94	249	11.089	ug/l #	12
10) Methyl Iodide	3.33	142	2159	14.419	ug/l #	64
20) Methylene Chloride	3.81	84	2032	16.048	ug/l #	90
38) Carbon Tetrachloride	7.05	117	209	1.054	ug/l #	12
59) 2-Hexanone	11.48	43	1214	28.248	ug/l #	27
70) Styrene	13.08	104	397	1.412	ug/l #	26
74) N-amyl acetate	13.33	43	35439	210.017	ug/l #	67
75) 1,1,2,2-Tetrachloroethane	13.71	83	9671	77.967	ug/l #	62
79) 2-Chlorotoluene	13.88	91	508	1.199	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.93	105	6229	12.510	ug/l	79
81) trans-1,4-Dichloro-2-buten	13.55	75	1556	38.591	ug/l #	39
82) 4-Chlorotoluene	13.94	91	2264	4.670	ug/l #	67
83) tert-Butylbenzene	14.19	119	618	1.057	ug/l #	84
85) sec-Butylbenzene	14.37	105	708	1.171	ug/l #	60
86) p-Isopropyltoluene	14.44	119	18578	32.853	ug/l	94
88) 1,4-Dichlorobenzene	14.53	146	635	2.064	ug/l #	1
89) n-Butylbenzene	14.85	91	6878	13.741	ug/l #	10
90) Hexachloroethane	15.00	117	893	5.794	ug/l #	20
92) 1,2-Dibromo-3-Chloropropan	15.38	75	435	28.203	ug/l #	28
93) 1,2,4-Trichlorobenzene	15.94	180	1090	7.613	ug/l #	1
95) Naphthalene	16.12	128	2433	11.087	ug/l #	37
96) 1,2,3-Trichlorobenzene	16.14	180	1014	12.429	ug/l	75

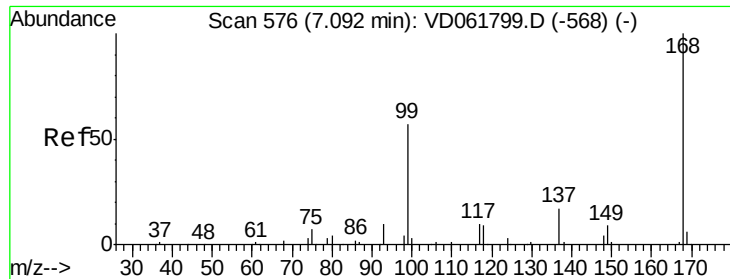
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

Instrument :

MSVOA_D

ClientSampleId :

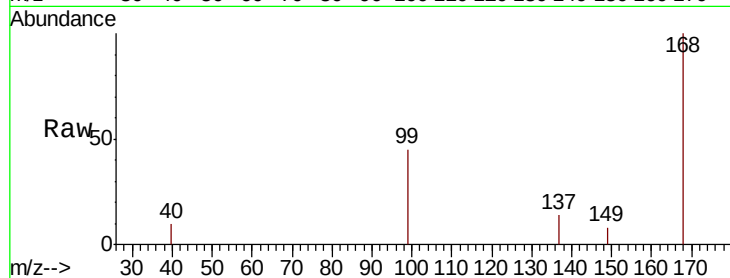
BCOG01

Tgt Ion:168 Resp: 10328

Ion Ratio Lower Upper

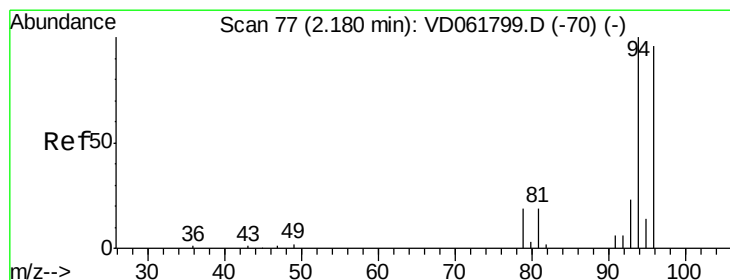
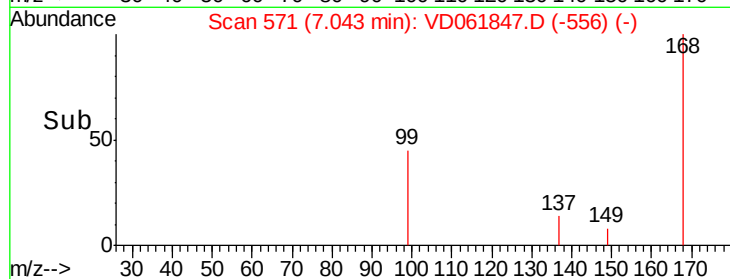
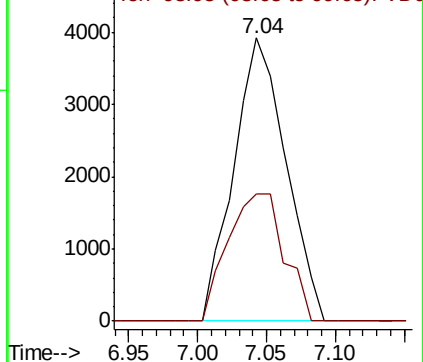
168 100

99 44.9 46.5 69.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 11.089 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.04 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

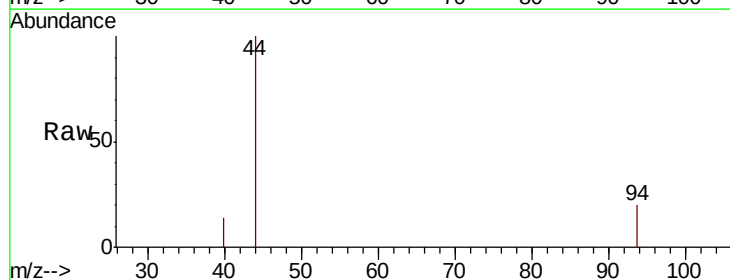
Tgt Ion: 94 Resp: 249

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

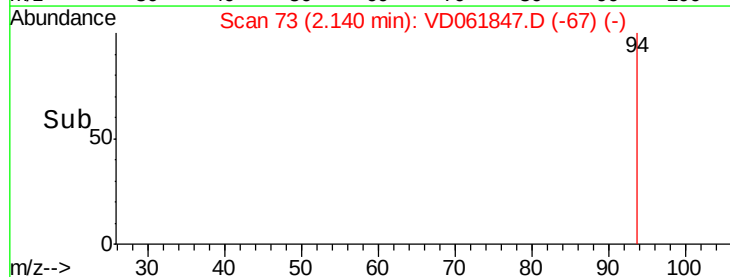
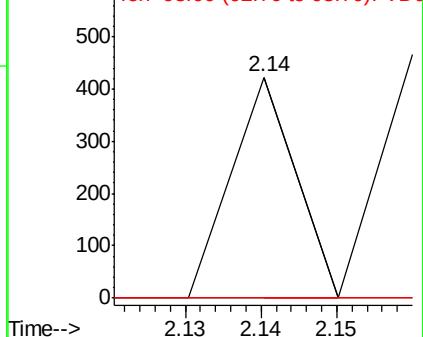
93 0.0 18.5 27.7#

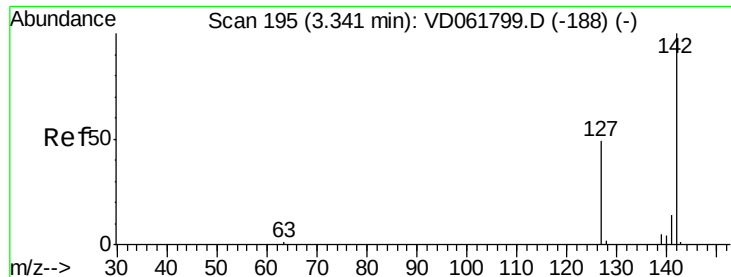


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

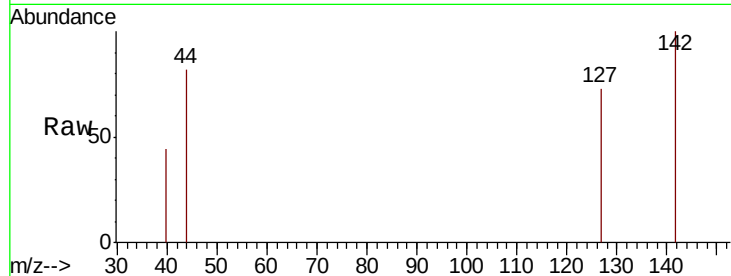




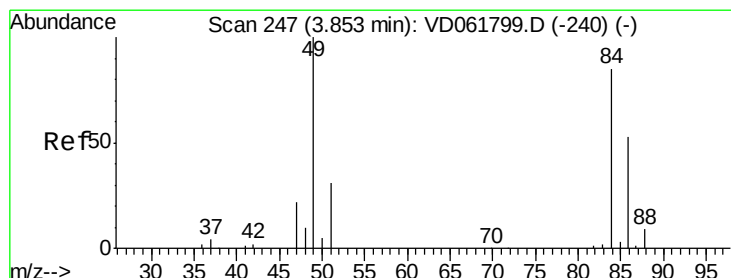
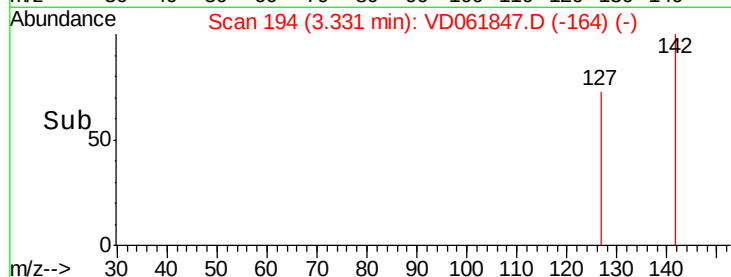
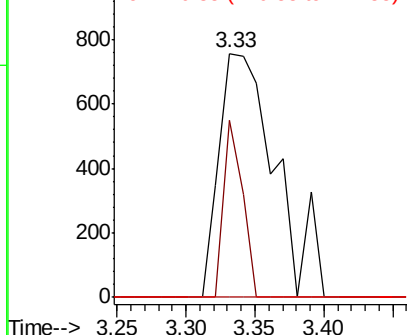
#10
Methyl Iodide
Concen: 14.419 ug/l
RT: 3.33 min Scan# 194
Delta R.T. -0.01 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Instrument :
MSVOA_D
ClientSampleId :
BCOG01

Tgt Ion:142 Resp: 2159
Ion Ratio Lower Upper
142 100
127 72.8 38.8 58.2#
141 0.0 11.4 17.0#



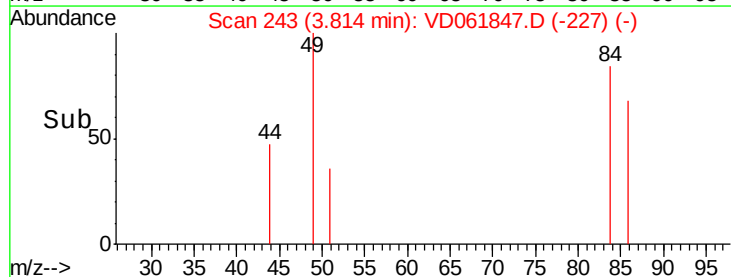
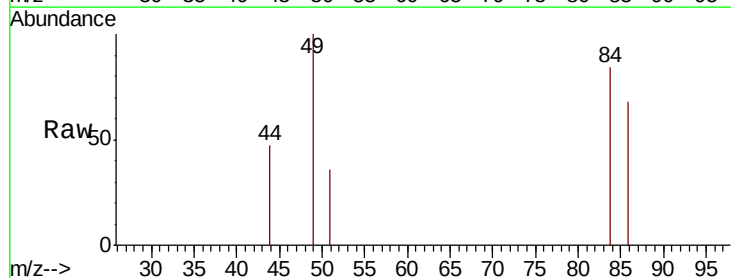
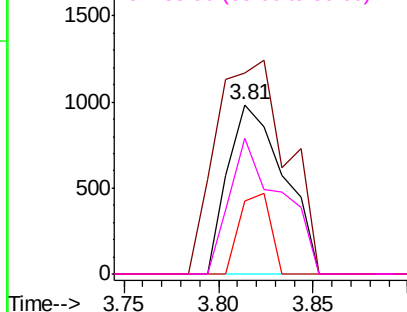
Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

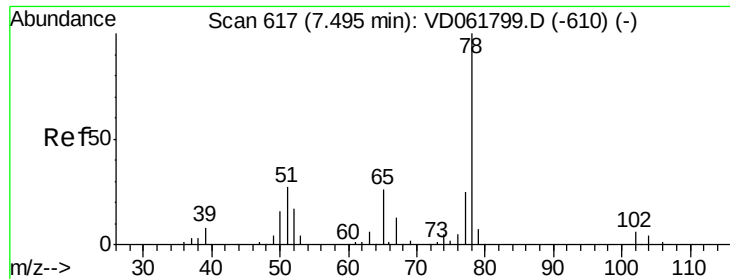


#20
Methylene Chloride
Concen: 16.048 ug/l
RT: 3.81 min Scan# 243
Delta R.T. -0.04 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Tgt Ion: 84 Resp: 2032
Ion Ratio Lower Upper
84 100
49 119.0 94.0 141.0
51 43.1 29.0 43.4
86 80.6 49.8 74.6#

Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

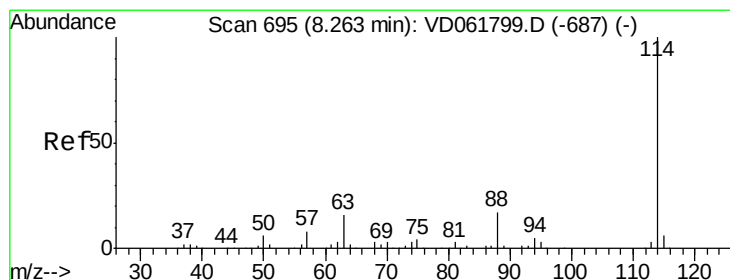
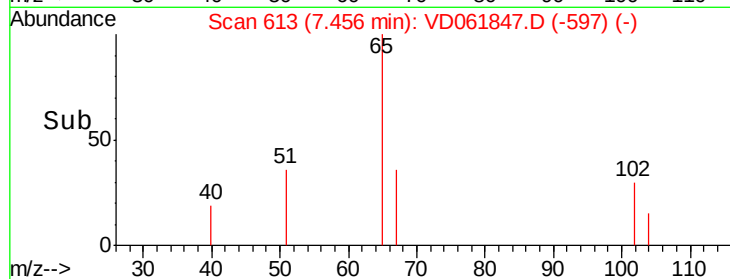
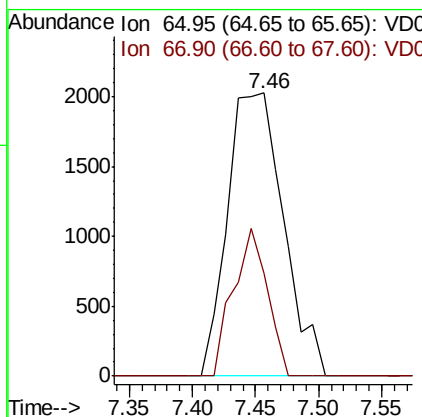
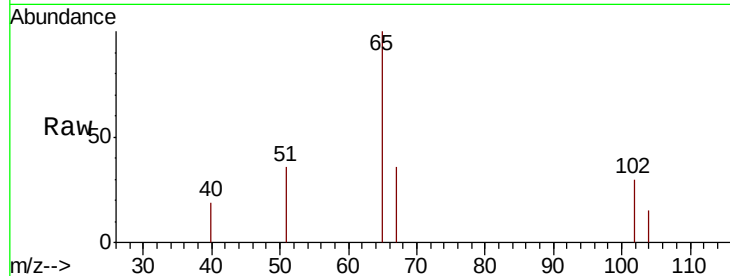




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. -0.04 min
 Lab File: VD061847.D
 Acq: 17 Apr 2019 12:39

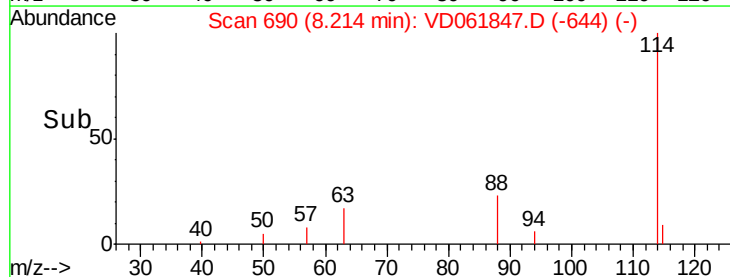
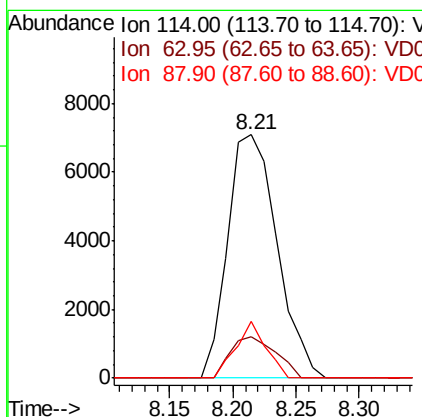
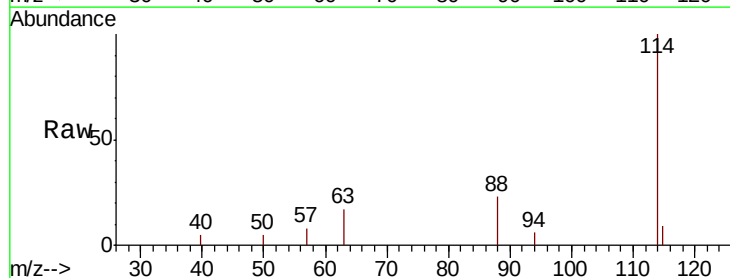
Instrument :
 MSVOA_D
 ClientSampleId :
 BCOG01

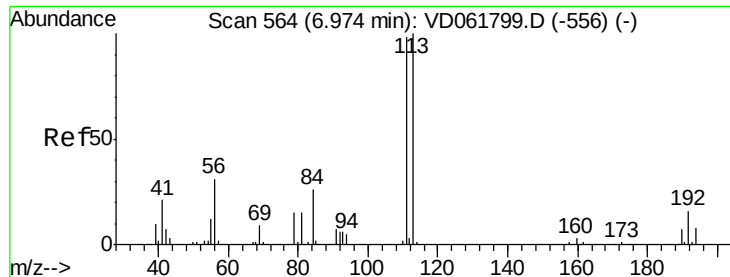
Tgt Ion: 65 Resp: 6249
 Ion Ratio Lower Upper
 65 100
 67 36.4 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.05 min
 Lab File: VD061847.D
 Acq: 17 Apr 2019 12:39

Tgt Ion: 114 Resp: 19225
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 32.4
 88 23.3 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.91 min Scan# 558

Delta R.T. -0.06 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

Instrument :

MSVOA_D

ClientSampleId :

BCOG01

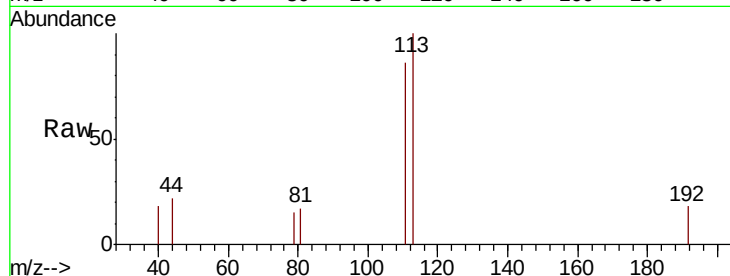
Tgt Ion:113 Resp: 6587

Ion Ratio Lower Upper

113 100

111 86.0 78.5 117.7

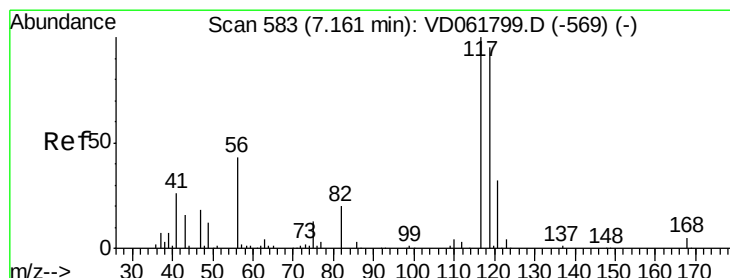
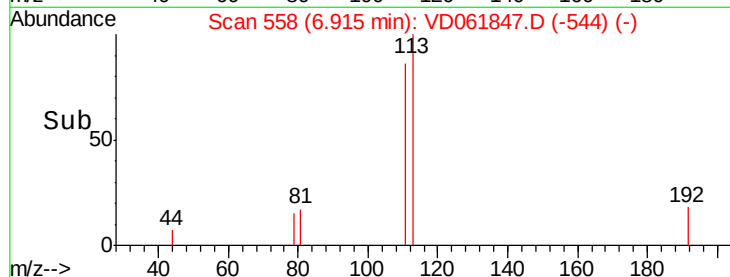
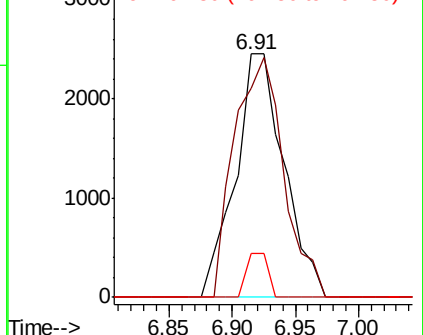
192 18.0 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#38

Carbon Tetrachloride

Concen: 1.054 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.11 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

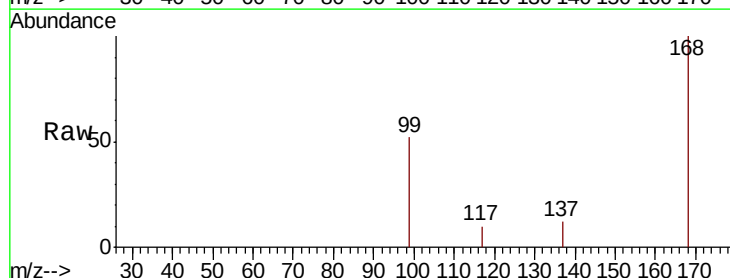
Tgt Ion:117 Resp: 209

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

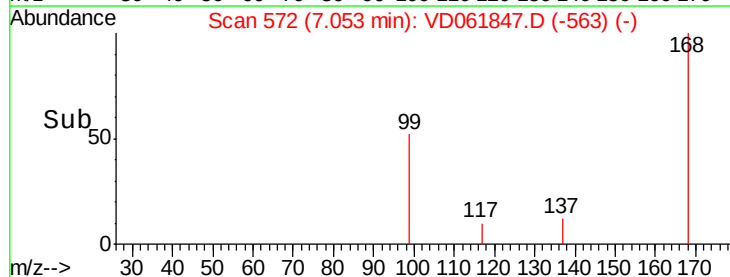
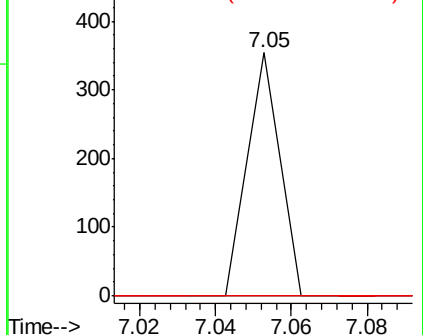
121 0.0 25.9 38.9#

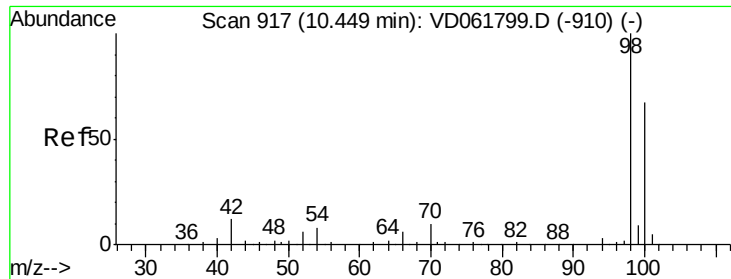


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

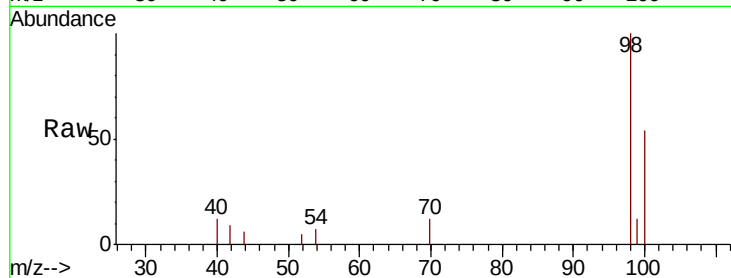




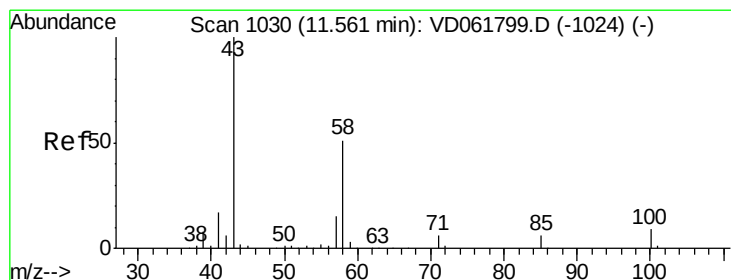
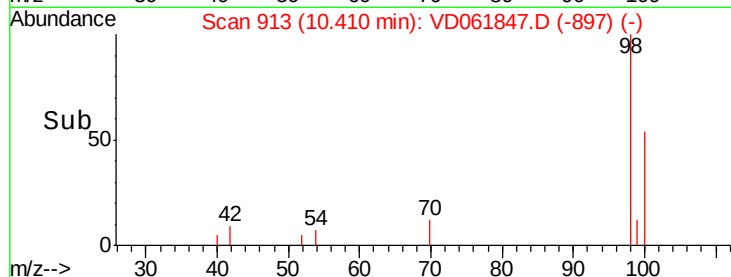
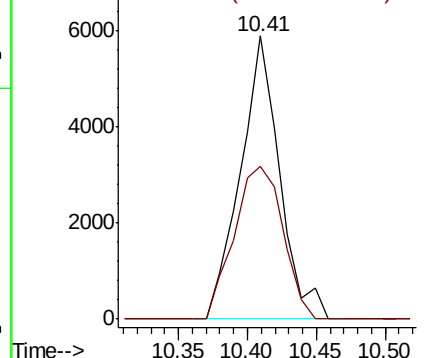
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.04 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Instrument :
MSVOA_D
ClientSampleId :
BCOG01

Tgt Ion: 98 Resp: 11709
Ion Ratio Lower Upper
98 100
100 54.1 53.8 80.8

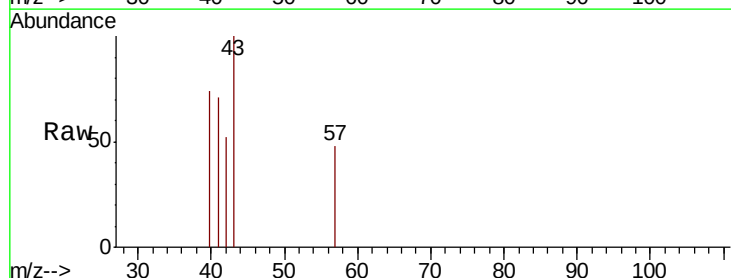


Abundance Ion 98.05 (97.75 to 98.75): VD061799.D (-910) (-)
Ion 100.05 (99.75 to 100.75): VD061799.D (-910) (-)

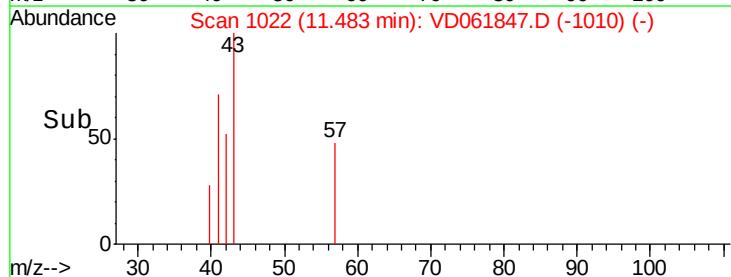
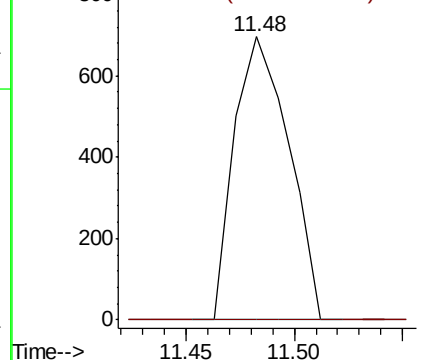


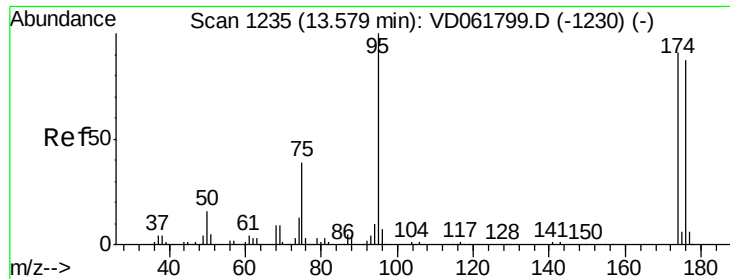
#59
2-Hexanone
Concen: 28.248 ug/l
RT: 11.48 min Scan# 1022
Delta R.T. -0.08 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Tgt Ion: 43 Resp: 1214
Ion Ratio Lower Upper
43 100
58 0.0 25.4 76.4#



Abundance Ion 42.95 (42.65 to 43.65): VD061799.D (-1024) (-)
Ion 57.95 (57.65 to 58.65): VD061799.D (-1024) (-)

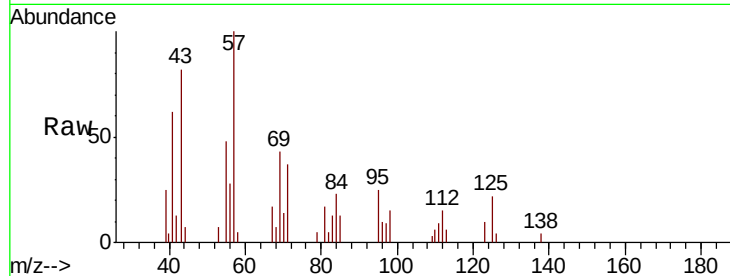




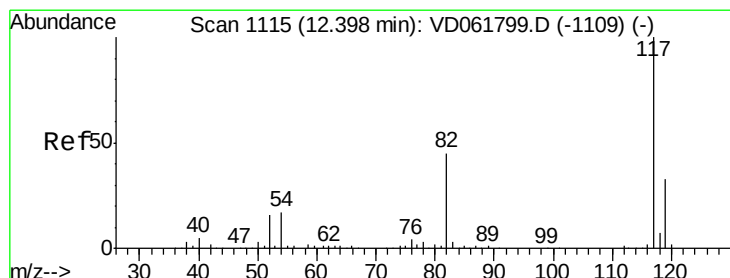
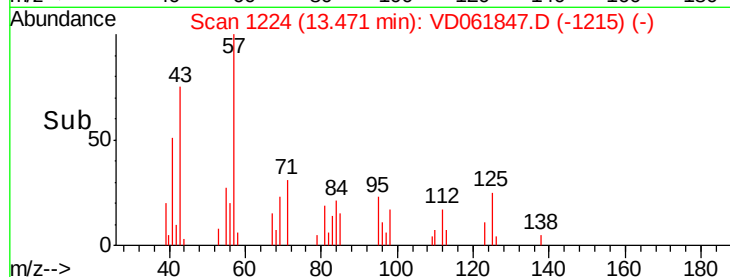
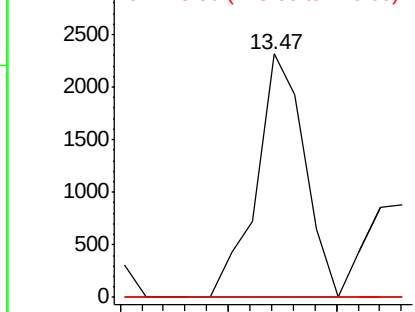
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.47 min Scan# 1224
Delta R.T. -0.11 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Instrument :
MSVOA_D
ClientSampleId :
BCOG01

Tgt Ion: 95 Resp: 3568
Ion Ratio Lower Upper
95 100
174 0.0 0.0 181.8
176 0.0 0.0 174.4

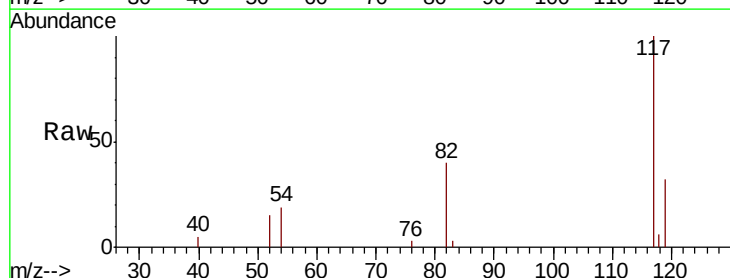


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

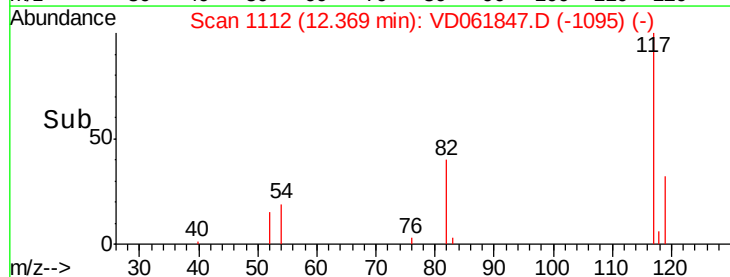
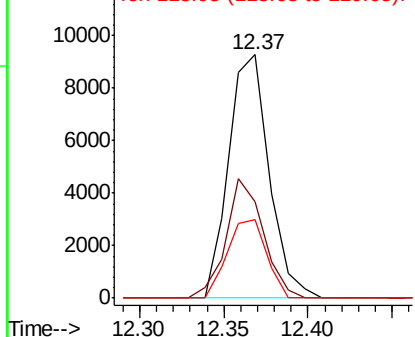


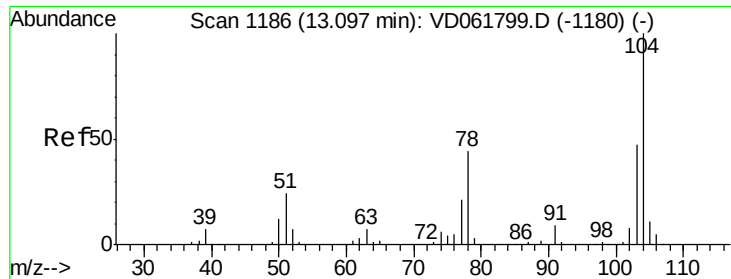
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.03 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Tgt Ion: 117 Resp: 15512
Ion Ratio Lower Upper
117 100
82 39.6 36.2 54.2
119 32.3 26.2 39.4



Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

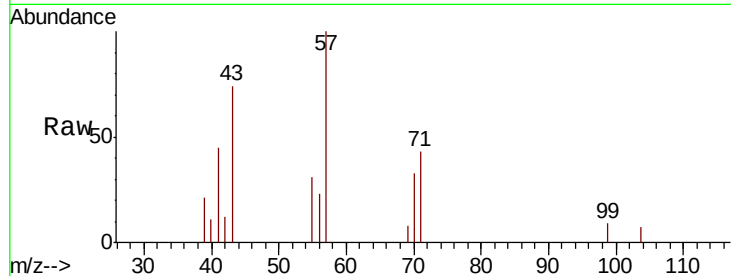




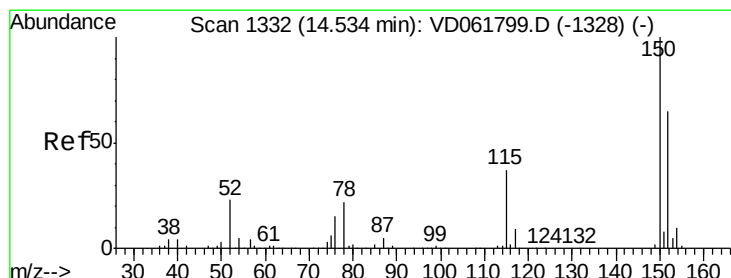
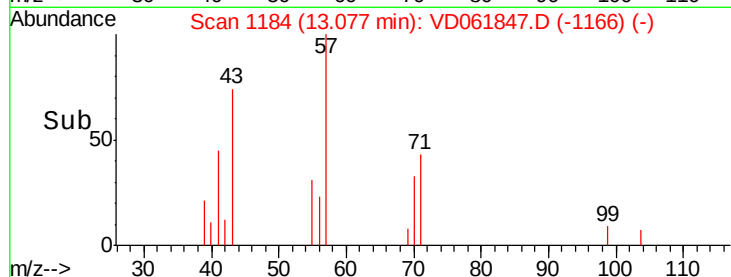
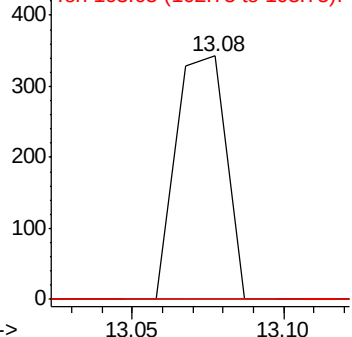
#70
Styrene
Concen: 1.412 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. -0.02 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Instrument :
MSVOA_D
ClientSampleId :
BCOG01

Tgt Ion:104 Resp: 397
Ion Ratio Lower Upper
104 100
78 0.0 35.4 53.2#
103 100.0 37.5 56.3#

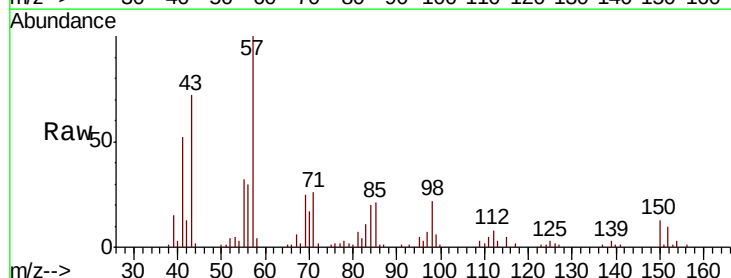


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VD
Ion 103.05 (102.75 to 103.75): V

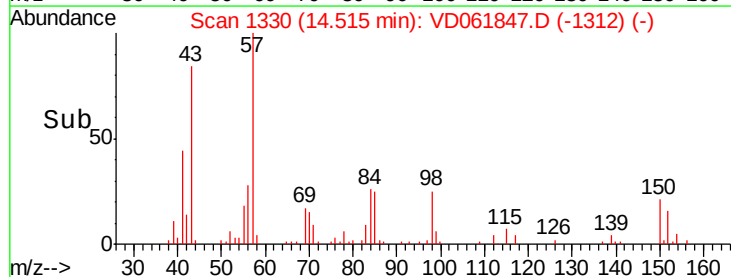
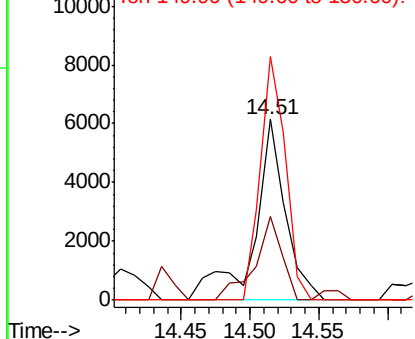


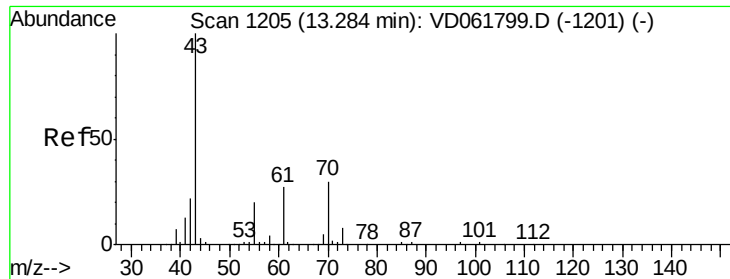
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Tgt Ion:152 Resp: 9676
Ion Ratio Lower Upper
152 100
115 46.2 30.9 92.7
150 134.7 0.0 314.8



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: 210.017 ug/l

RT: 13.33 min Scan# 1210

Delta R.T. 0.05 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

Instrument :

MSVOA_D

ClientSampleId :

BCOG01

Tgt Ion: 43 Resp: 35439

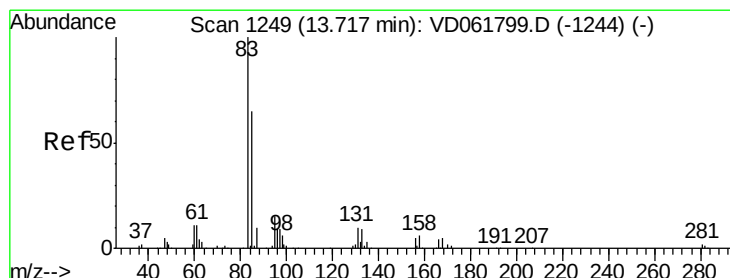
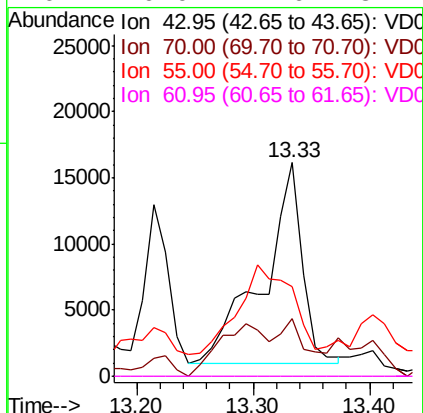
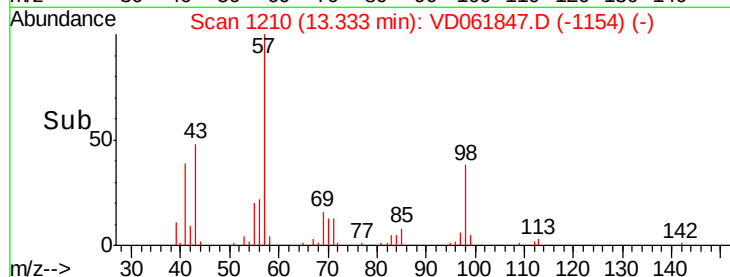
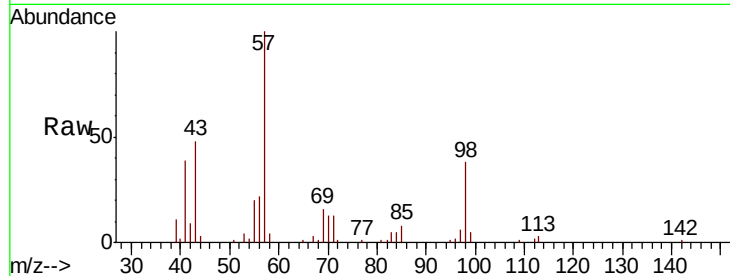
Ion Ratio Lower Upper

43 100

70 26.9 24.2 36.4

55 42.0 16.0 24.0#

61 0.0 21.6 32.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 77.967 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

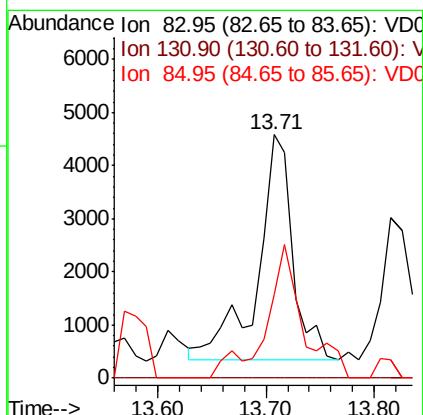
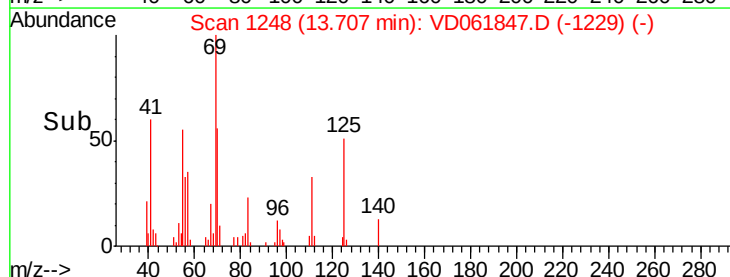
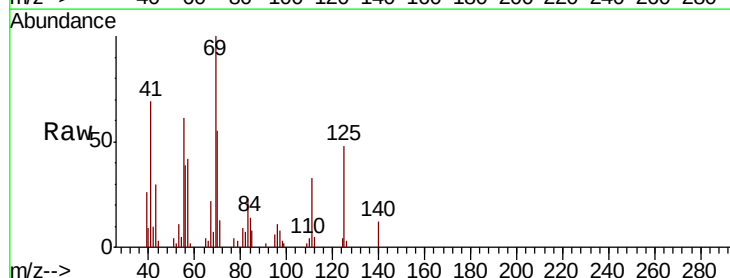
Tgt Ion: 83 Resp: 9671

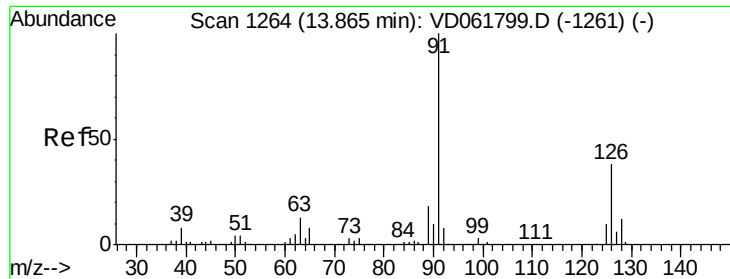
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 34.1 32.6 97.7

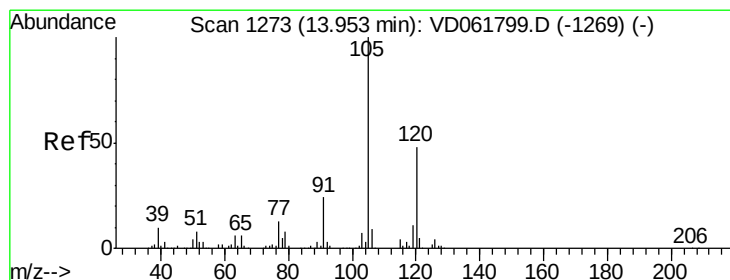
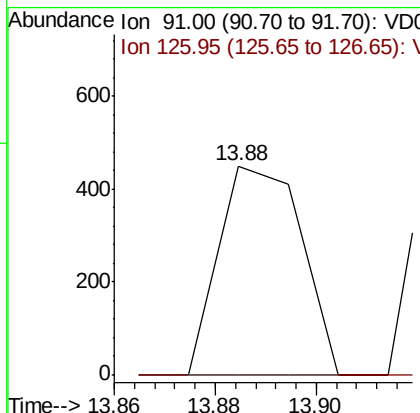
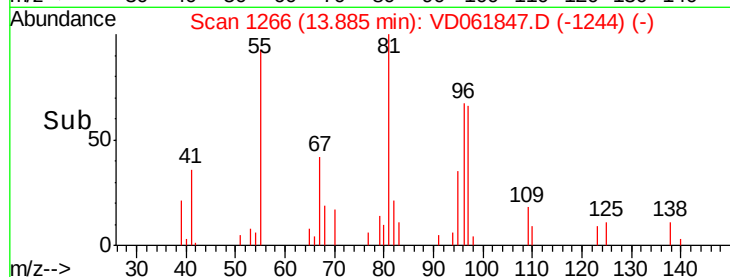
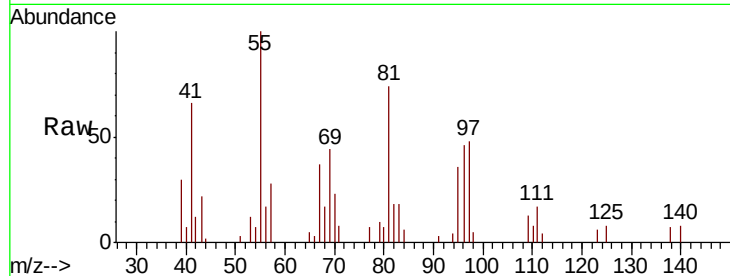




#79
 2-Chlorotoluene
 Concen: 1.199 ug/l
 RT: 13.88 min Scan# 1266
 Delta R.T. 0.02 min
 Lab File: VD061847.D
 Acq: 17 Apr 2019 12:39

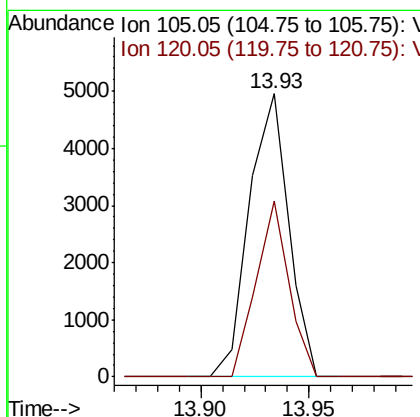
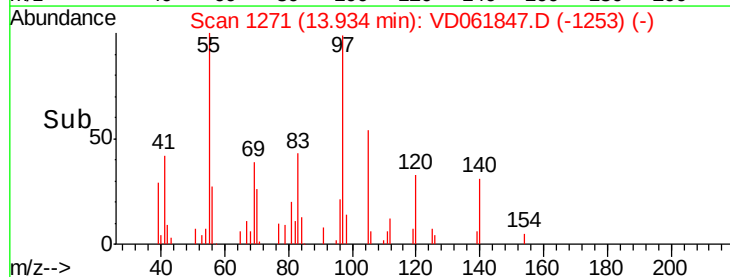
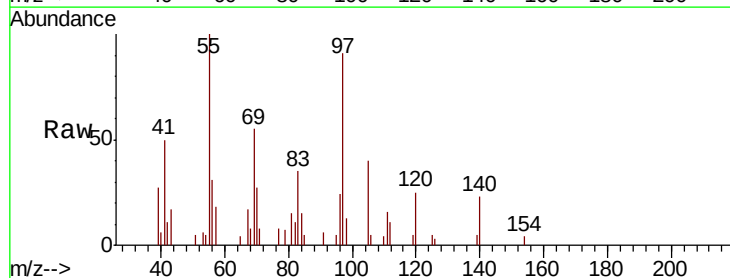
Instrument :
 MSVOA_D
 ClientSampleId :
 BCOG01

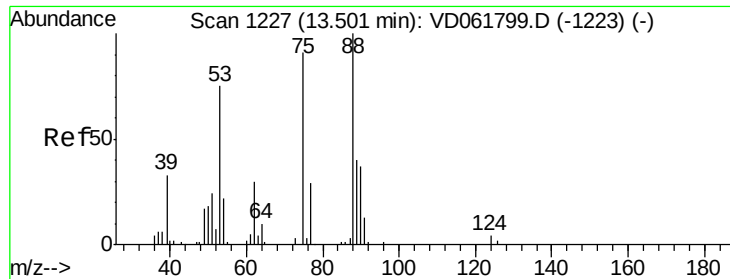
Tgt Ion: 91 Resp: 508
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.6 55.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 12.510 ug/l
 RT: 13.93 min Scan# 1271
 Delta R.T. -0.02 min
 Lab File: VD061847.D
 Acq: 17 Apr 2019 12:39

Tgt Ion: 105 Resp: 6229
 Ion Ratio Lower Upper
 105 100
 120 62.1 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 38.591 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.05 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

Instrument :

MSVOA_D

ClientSampleId :

BCOG01

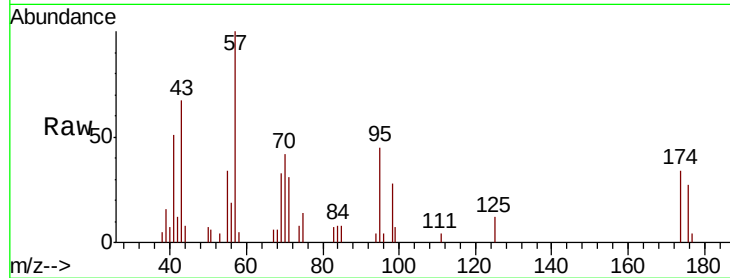
Tgt Ion: 75 Resp: 1556

Ion Ratio Lower Upper

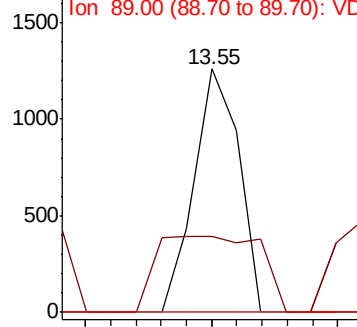
75 100

53 31.1 65.8 98.8#

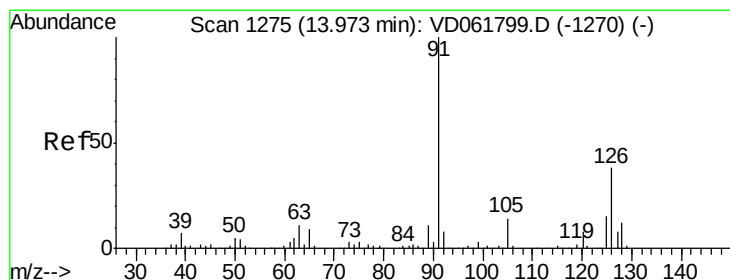
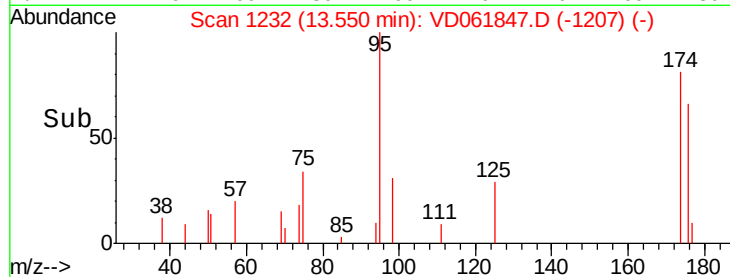
89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



Time-->



#82

4-Chlorotoluene

Concen: 4.670 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. -0.03 min

Lab File: VD061847.D

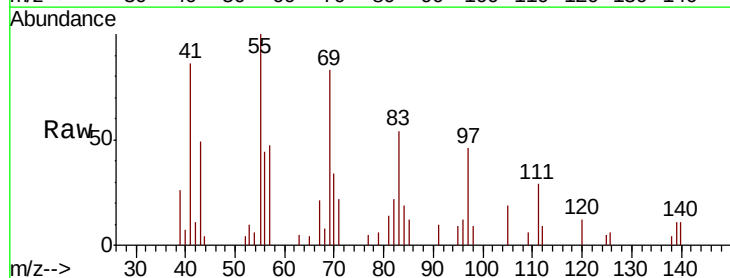
Acq: 17 Apr 2019 12:39

Tgt Ion: 91 Resp: 2264

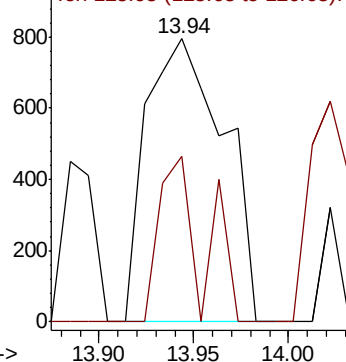
Ion Ratio Lower Upper

91 100

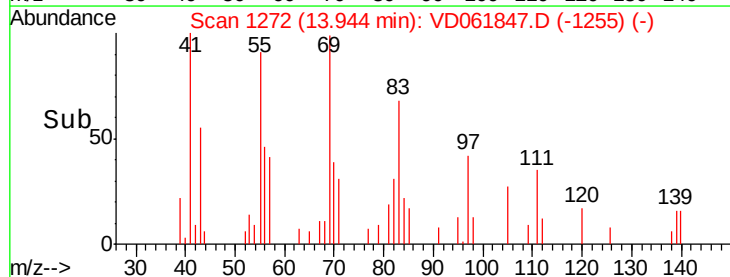
126 58.4 19.1 57.5#

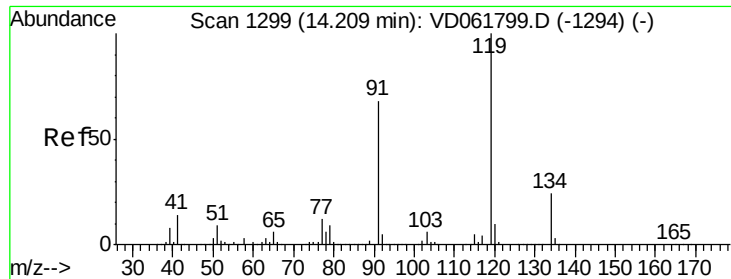


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V



Time-->





#83

tert-Butylbenzene

Concen: 1.057 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. -0.02 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

Instrument :

MSVOA_D

ClientSampleId :

BCOG01

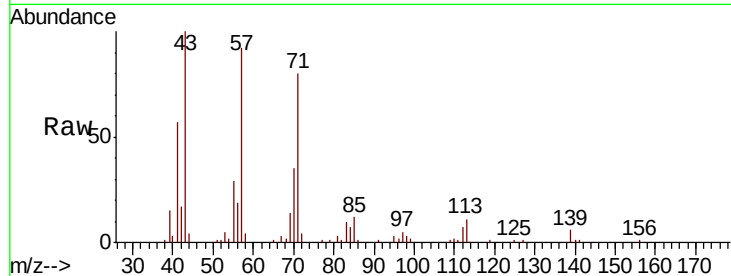
Tgt Ion:119 Resp: 618

Ion Ratio Lower Upper

119 100

91 64.2 34.2 102.6

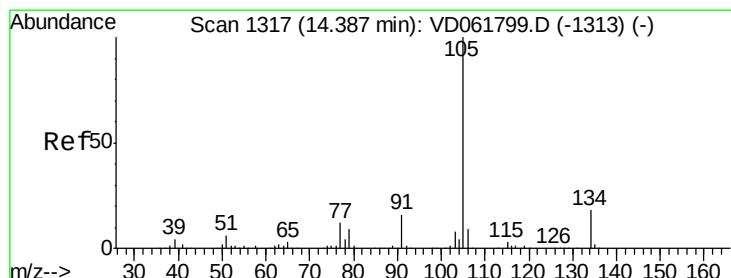
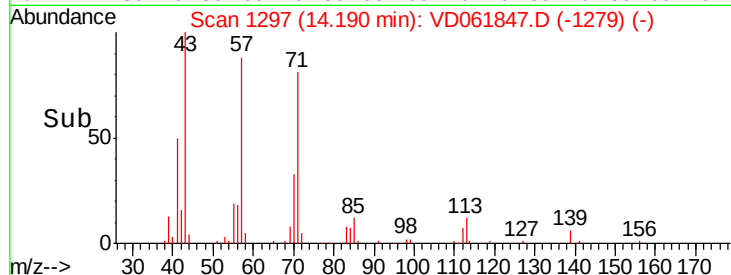
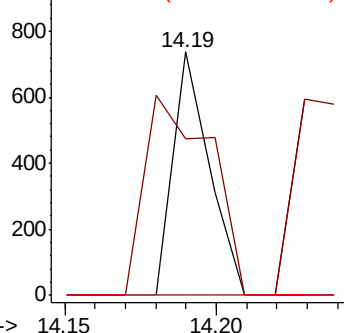
134 0.0 12.0 36.0#



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#85

sec-Butylbenzene

Concen: 1.171 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VD061847.D

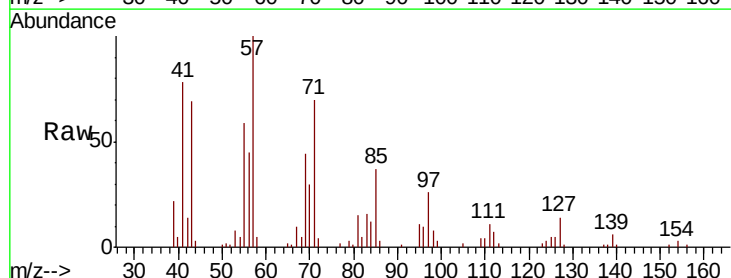
Acq: 17 Apr 2019 12:39

Tgt Ion:105 Resp: 708

Ion Ratio Lower Upper

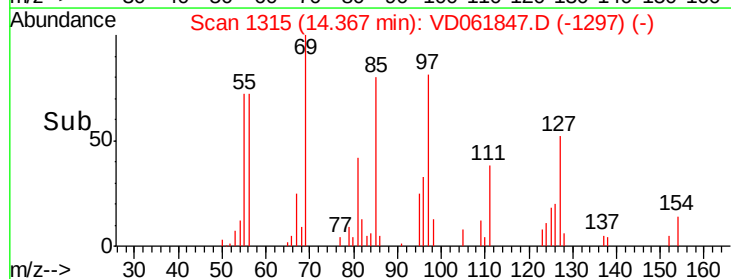
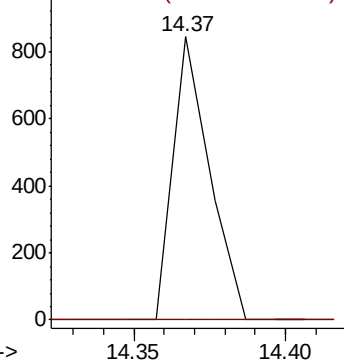
105 100

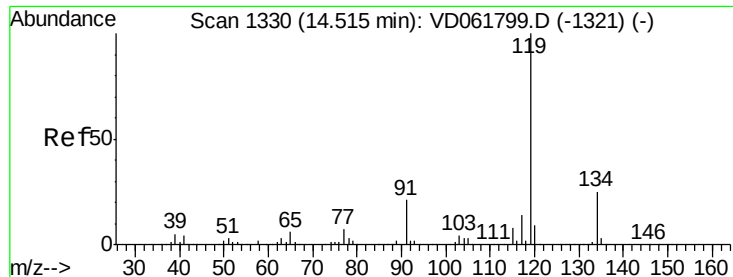
134 0.0 8.9 26.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

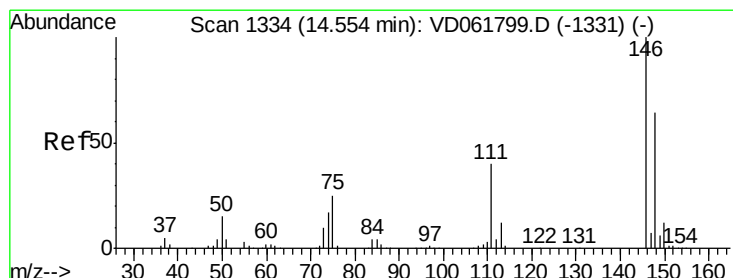
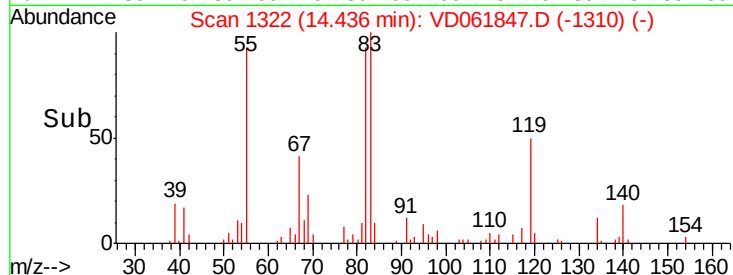
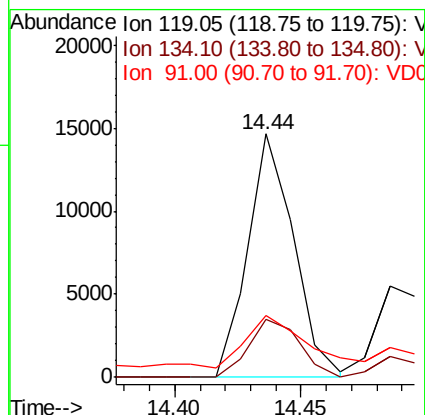
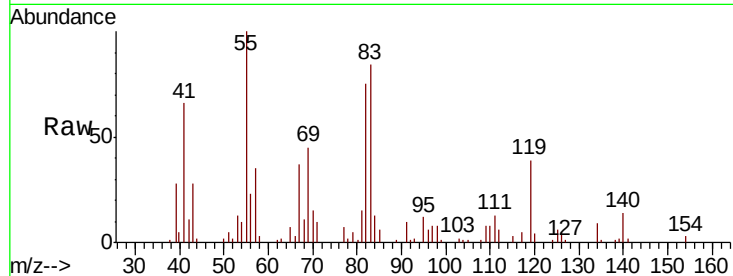




#86
 p-Isopropyltoluene
 Concen: 32.853 ug/l
 RT: 14.44 min Scan# 1322
 Delta R.T. -0.08 min
 Lab File: VD061847.D
 Acq: 17 Apr 2019 12:39

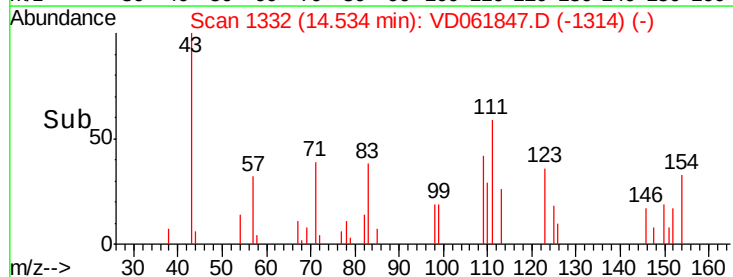
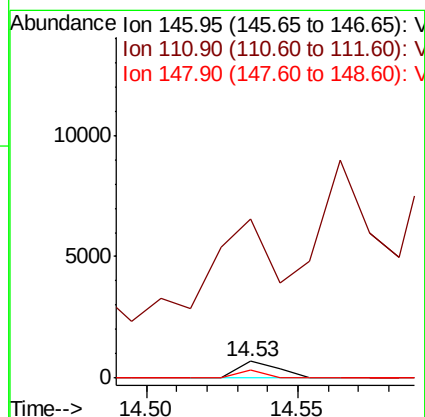
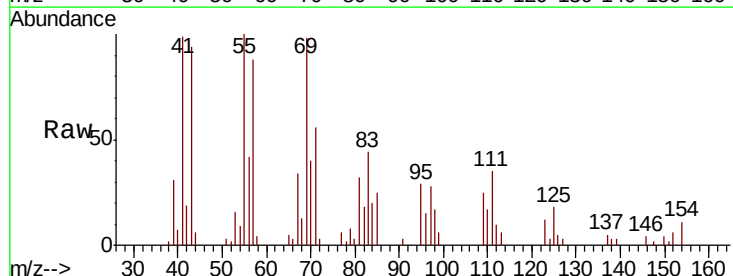
Instrument :
 MSVOA_D
 ClientSampleID :
 BCOG01

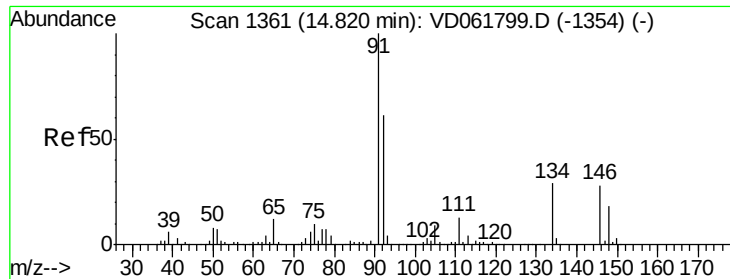
Tgt Ion	Resp	Lower	Upper
119	100		
134	23.6	12.8	38.3
91	25.3	10.7	32.1



#88
 1,4-Dichlorobenzene
 Concen: 2.064 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD061847.D
 Acq: 17 Apr 2019 12:39

Tgt Ion	Resp	Lower	Upper
146	100		
111	960.2	20.2	60.5#
148	45.8	32.0	96.2

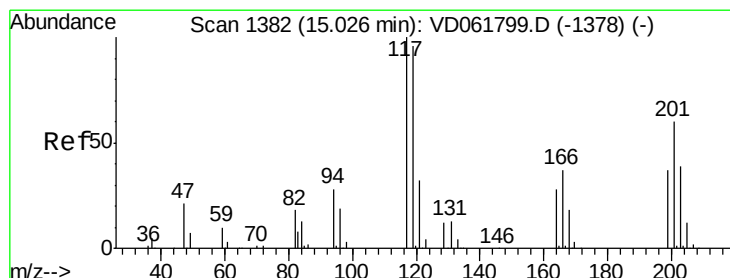
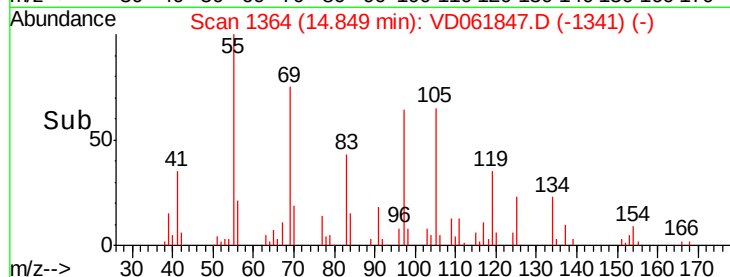
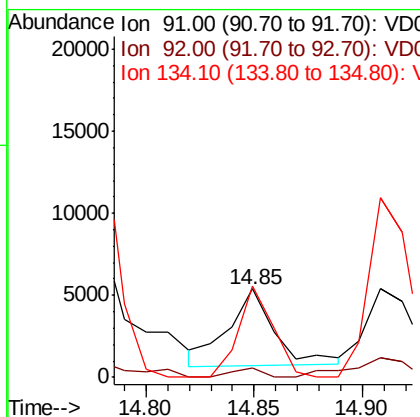
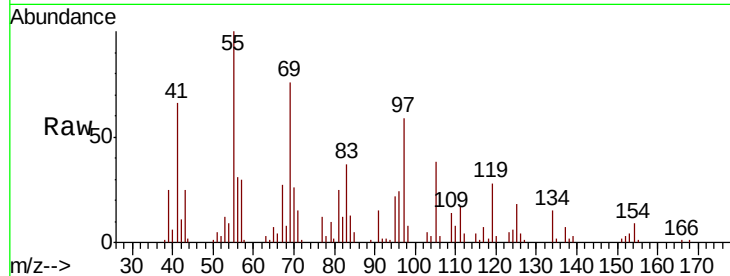




#89
n-Butylbenzene
Concen: 13.741 ug/l
RT: 14.85 min Scan# 1364
Delta R.T. 0.03 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

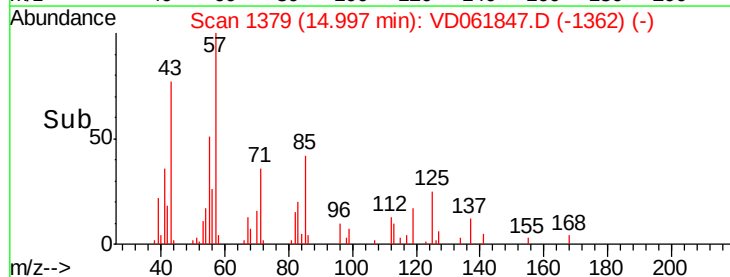
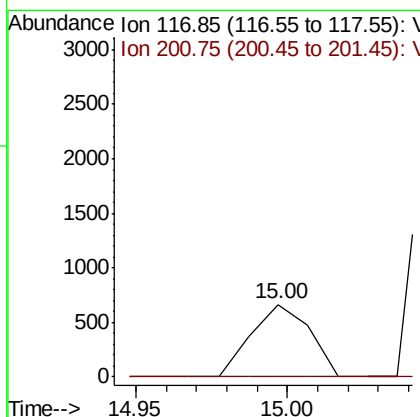
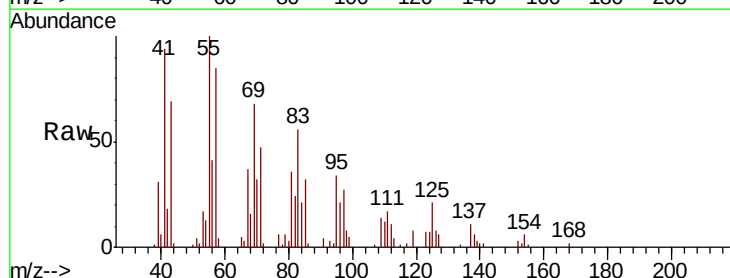
Instrument :
MSVOA_D
ClientSampleId :
BCOG01

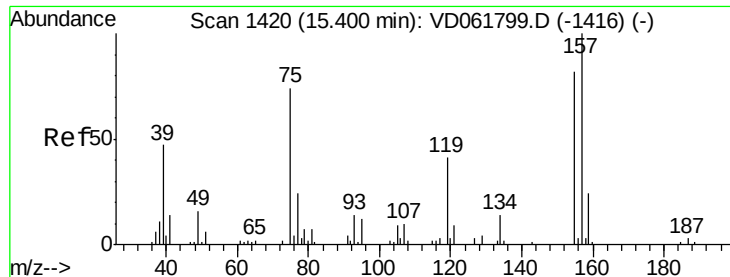
Tgt Ion: 91 Resp: 6878
Ion Ratio Lower Upper
91 100
92 10.2 30.3 91.0#
134 103.7 14.5 43.6#



#90
Hexachloroethane
Concen: 5.794 ug/l
RT: 15.00 min Scan# 1379
Delta R.T. -0.03 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Tgt Ion: 117 Resp: 893
Ion Ratio Lower Upper
117 100
201 0.0 30.2 90.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 28.203 ug/l

RT: 15.38 min Scan# 1418

Delta R.T. -0.02 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

Instrument :

MSVOA_D

ClientSampleId :

BCOG01

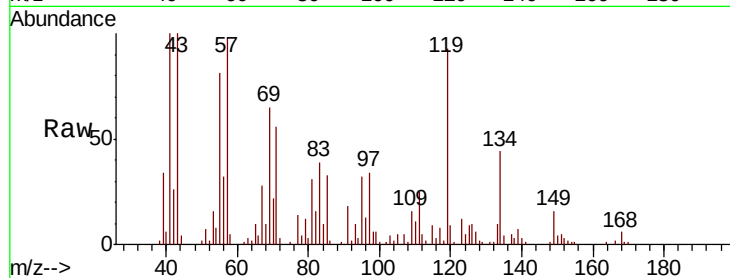
Tgt Ion: 75 Resp: 435

Ion Ratio Lower Upper

75 100

155 87.0 55.3 165.8

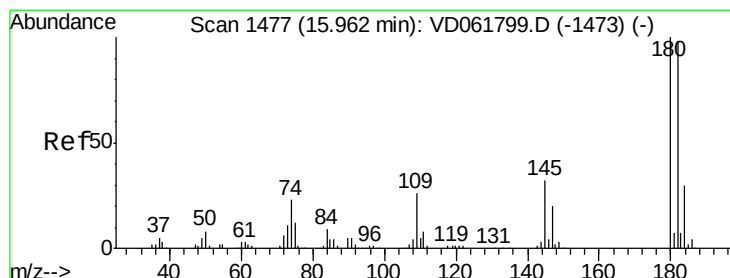
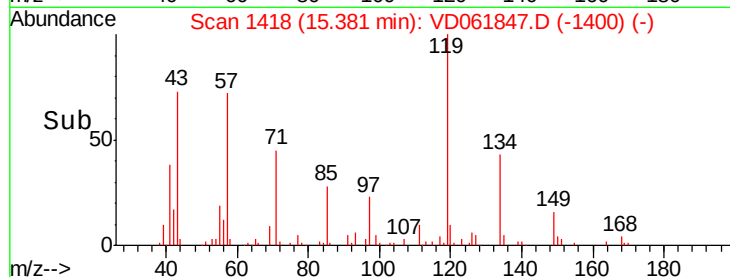
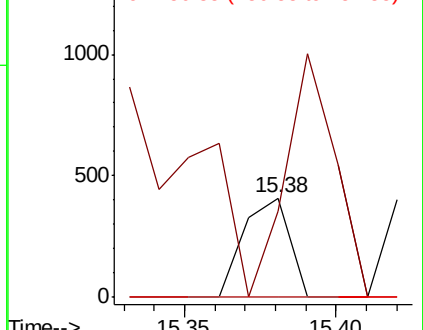
157 0.0 67.8 203.2#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#93

1,2,4-Trichlorobenzene

Concen: 7.613 ug/l

RT: 15.94 min Scan# 1475

Delta R.T. -0.02 min

Lab File: VD061847.D

Acq: 17 Apr 2019 12:39

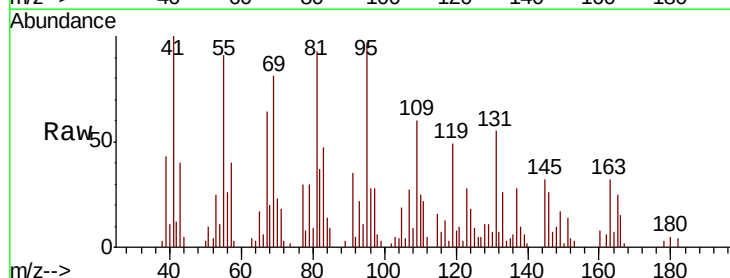
Tgt Ion: 180 Resp: 1090

Ion Ratio Lower Upper

180 100

182 73.0 49.3 147.8

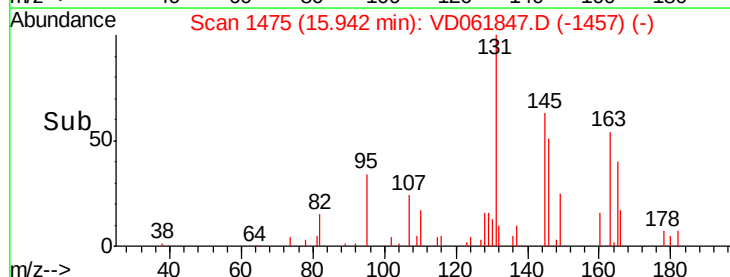
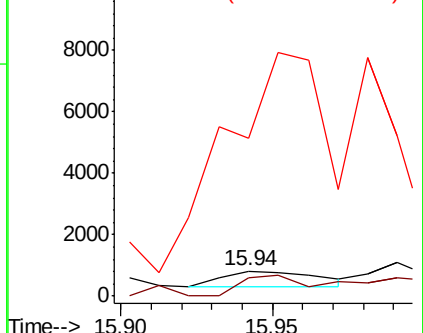
145 629.2 16.2 48.6#

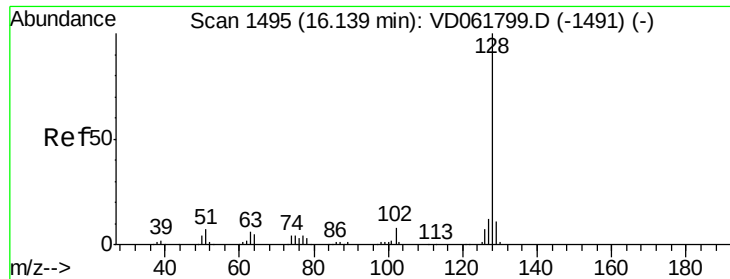


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

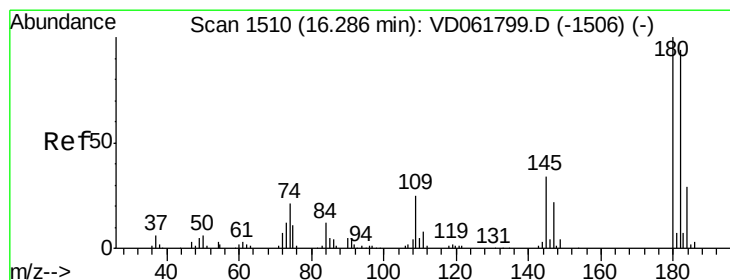
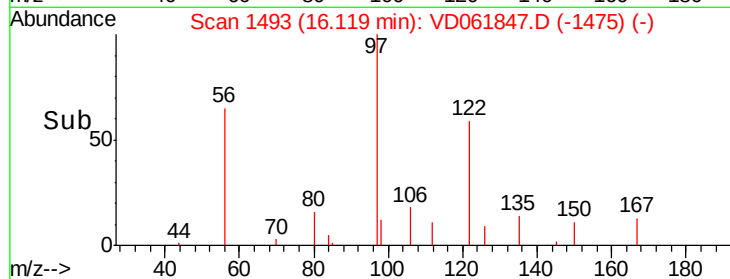
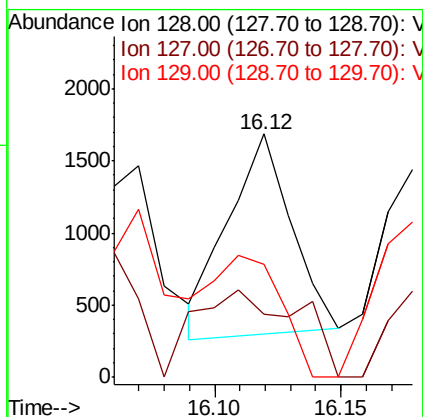
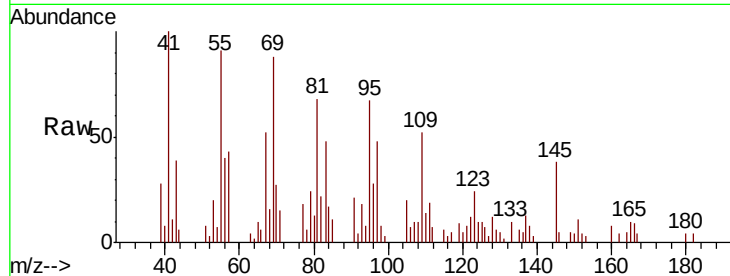




#95
Naphthalene
Concen: 11.087 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.02 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Instrument :
MSVOA_D
ClientSampleId :
BCOG01

Tgt Ion:128 Resp: 2433
Ion Ratio Lower Upper
128 100
127 26.0 9.8 14.8#
129 46.6 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 12.429 ug/l
RT: 16.14 min Scan# 1495
Delta R.T. -0.15 min
Lab File: VD061847.D
Acq: 17 Apr 2019 12:39

Tgt Ion:180 Resp: 1014
Ion Ratio Lower Upper
180 100
182 61.7 47.0 141.0
145 34.3 17.0 51.0

