

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062419\
 Data File : VD062866.D
 Acq On : 25 Jun 2019 5:43
 Operator : VA/AP
 Sample : K3164-03
 Misc : 5.21g/5ml/MSVOA D/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BAT-B05

Quant Time: Jun 25 06:46:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	343866	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	525032	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.38	117	209270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	38019	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	314278	84.08	ug/l	0.00
Spiked Amount			Recovery	=	168.16%	
35) Dibromofluoromethane	6.93	113	317412	71.70	ug/l	0.00
Spiked Amount			Recovery	=	143.40%	
50) Toluene-d8	10.42	98	389315	40.41	ug/l	0.00
Spiked Amount			Recovery	=	80.82%	
62) 4-Bromofluorobenzene	13.56	95	71153	16.24	ug/l	0.00
Spiked Amount			Recovery	=	32.48%	

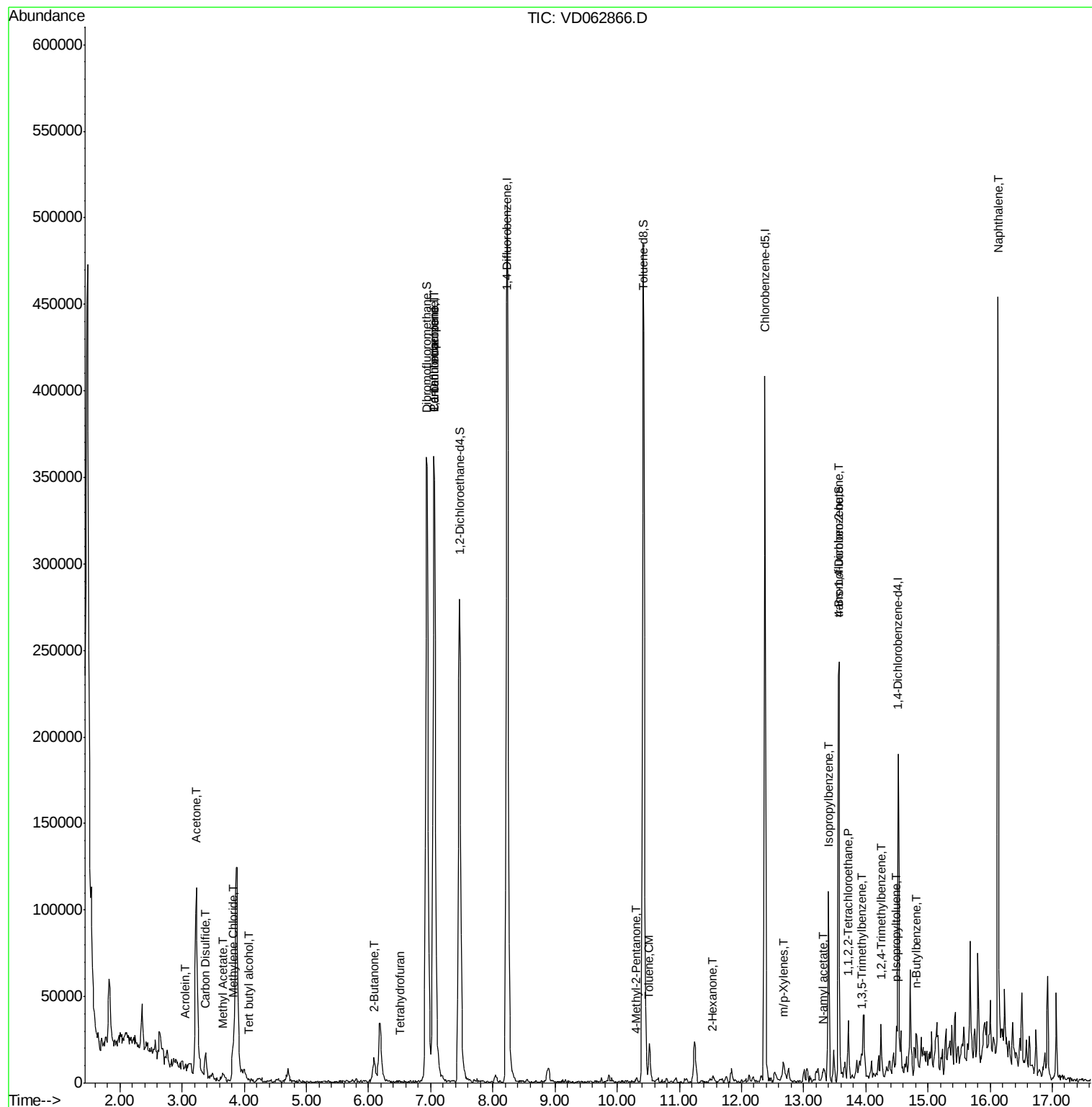
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.08	59	339	1.991	ug/l #	77
13) Acrolein	3.05	56	274	1.577	ug/l	95
16) Acetone	3.23	43	224793	297.906	ug/l #	92
17) Carbon Disulfide	3.38	76	26327	3.018	ug/l	96
18) Methyl Acetate	3.65	43	10353	9.175	ug/l #	86
20) Methylene Chloride	3.81	84	13370	4.690	ug/l #	84
25) 2-Butanone	6.09	43	28623	40.944	ug/l #	87
29) Tetrahydrofuran	6.50	42	373	1.128	ug/l #	33
36) 1,1-Dichloropropene	7.05	75	28281	5.690	ug/l #	62
38) Carbon Tetrachloride	7.05	117	34896	4.668	ug/l #	18
51) 4-Methyl-2-Pentanone	10.32	43	2166	1.172	ug/l #	19
52) Toluene	10.52	92	7727	1.152	ug/l	78
59) 2-Hexanone	11.54	43	3949	3.001	ug/l	87
68) m/p-Xylenes	12.67	106	4310	1.775	ug/l #	61
73) Isopropylbenzene	13.40	105	6177	2.534	ug/l #	72
74) N-amyl acetate	13.31	43	2468	4.169	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	13.73	83	1161	2.923	ug/l #	24
80) 1,3,5-Trimethylbenzene	13.94	105	5395	2.635	ug/l	80
81) trans-1,4-Dichloro-2-buten	13.57	75	33431	290.630	ug/l #	2
84) 1,2,4-Trimethylbenzene	14.25	105	12764	6.082	ug/l	93
86) p-Isopropyltoluene	14.49	119	12967	5.714	ug/l	95
89) n-Butylbenzene	14.81	91	3129	1.473	ug/l #	77
95) Naphthalene	16.13	128	246804	224.162	ug/l	99

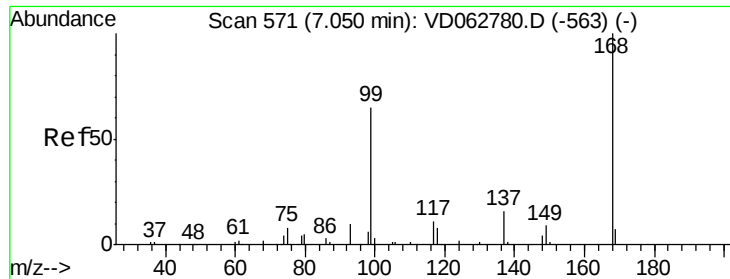
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD062866.D

Acq: 25 Jun 2019 5:43

Instrument :

MSVOA_D

ClientSampleId :

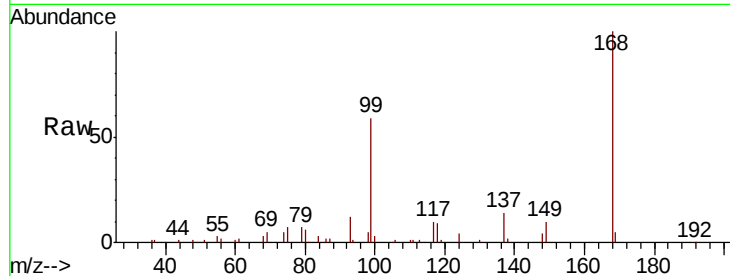
BAT-B05

Tot Ion:168 Resp: 343866

Ion Ratio Lower Upper

168 100

99 58.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

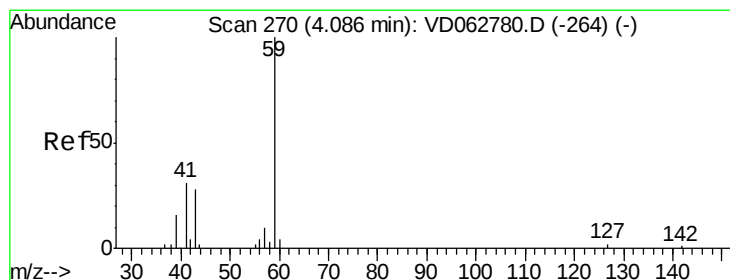
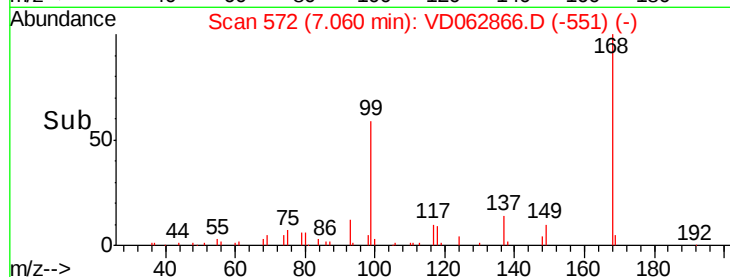
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.991 ug/l

RT: 4.08 min Scan# 269

Delta R.T. -0.01 min

Lab File: VD062866.D

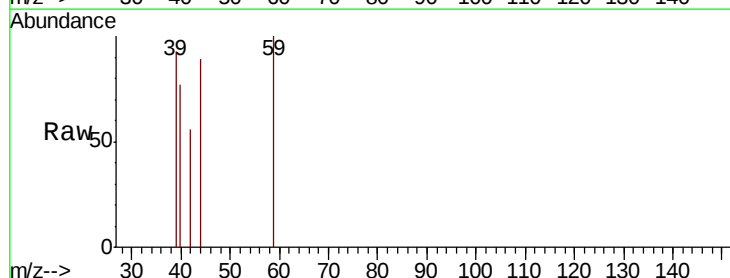
Acq: 25 Jun 2019 5:43

Tgt Ion: 59 Resp: 339

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.08

600

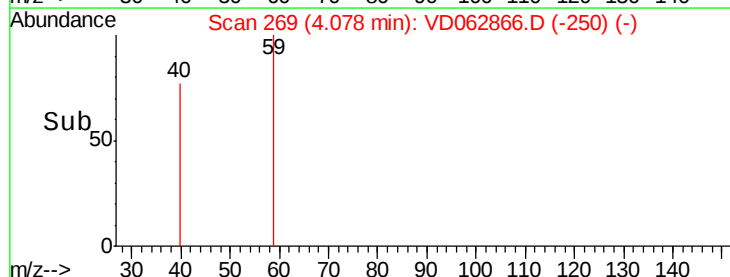
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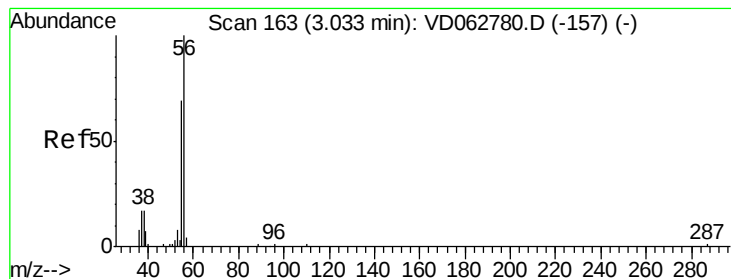
200

0

Time-->

4.04 4.06 4.08 4.10





#13

Acrolein

Concen: 1.577 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.02 min

Lab File: VD062866.D

Acq: 25 Jun 2019 5:43

Instrument :

MSVOA_D

ClientSampleId :

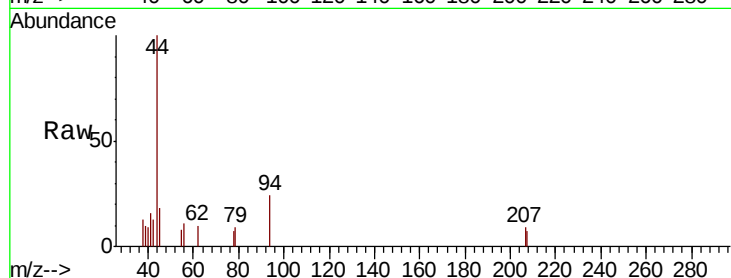
BAT-B05

Tot Ion: 56 Resp: 274

Ion Ratio Lower Upper

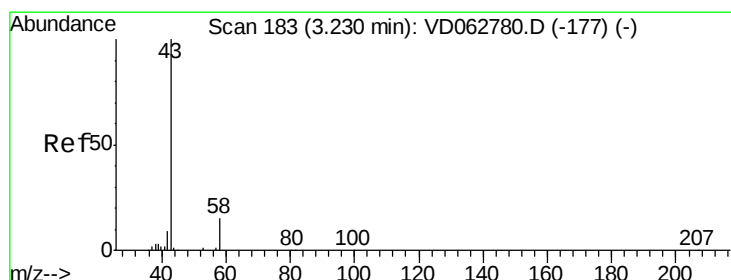
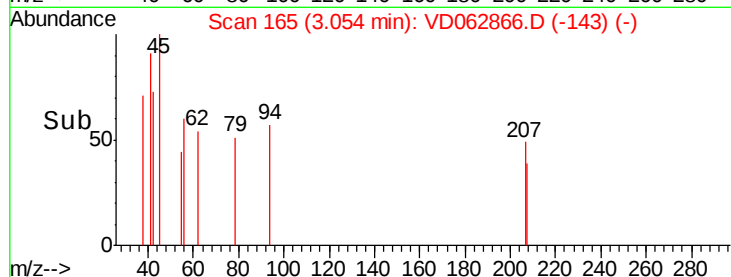
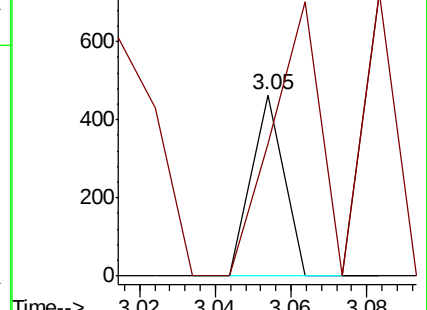
56 100

55 73.3 55.4 83.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 297.906 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD062866.D

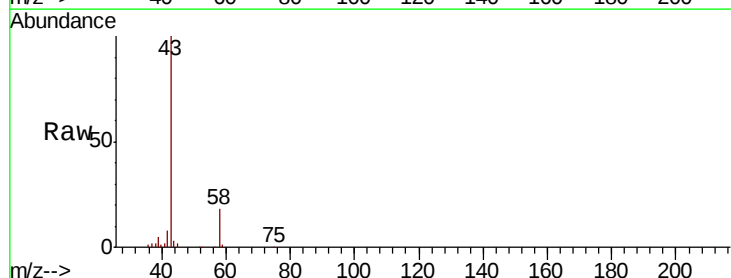
Acq: 25 Jun 2019 5:43

Tgt Ion: 43 Resp: 224793

Ion Ratio Lower Upper

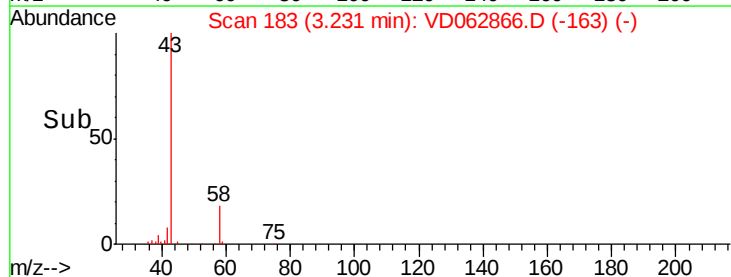
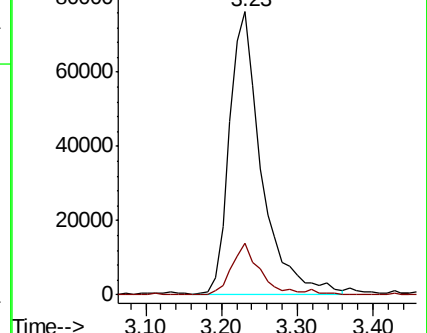
43 100

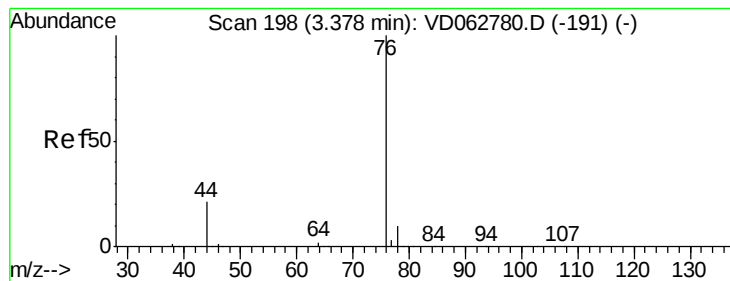
58 18.1 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 3.018 ug/l

RT: 3.38 min Scan# 198

Delta R.T. 0.00 min

Lab File: VD062866.D

Acq: 25 Jun 2019 5:43

Instrument :

MSVOA_D

ClientSampleId :

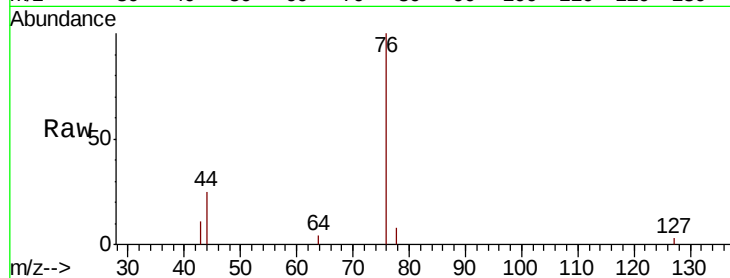
BAT-B05

Tot Ion: 76 Resp: 26327

Ion Ratio Lower Upper

76 100

78 8.4 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

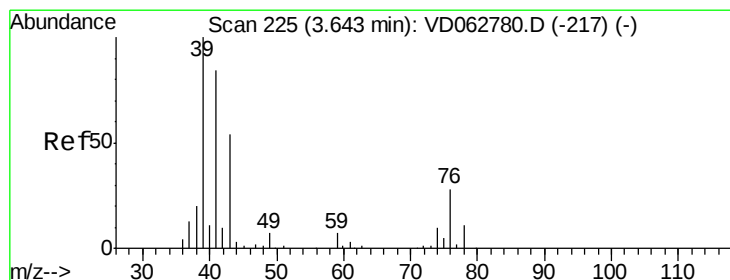
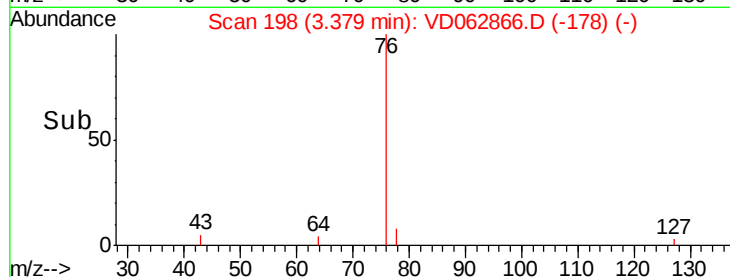
3.38

10000

5000

0

Time-->



#18

Methyl Acetate

Concen: 9.175 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.01 min

Lab File: VD062866.D

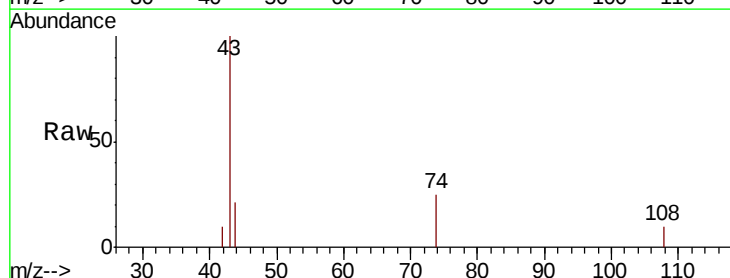
Acq: 25 Jun 2019 5:43

Tgt Ion: 43 Resp: 10353

Ion Ratio Lower Upper

43 100

74 25.4 15.2 22.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.65

4000

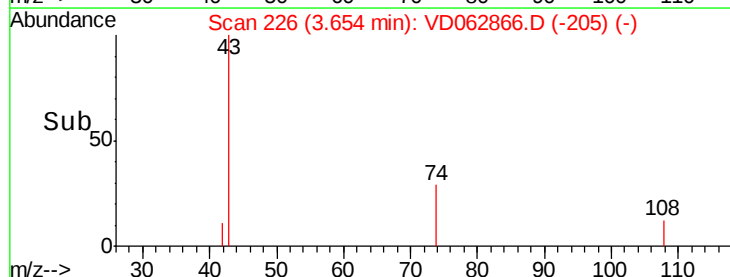
3000

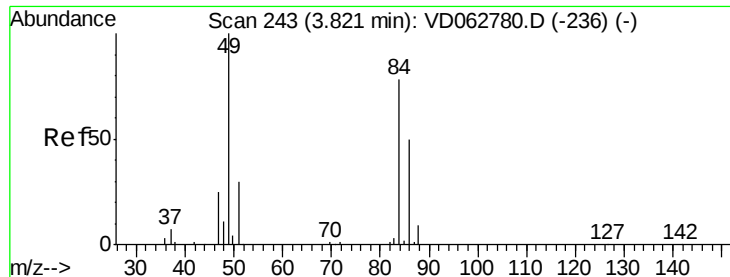
2000

1000

0

Time-->

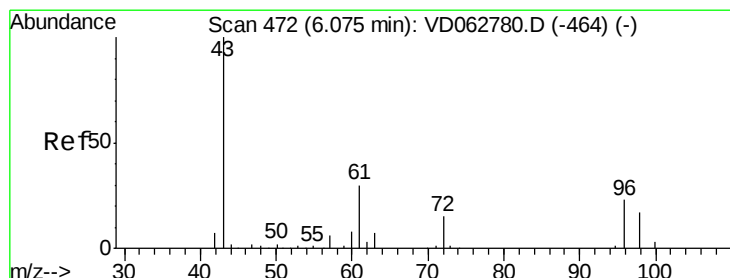
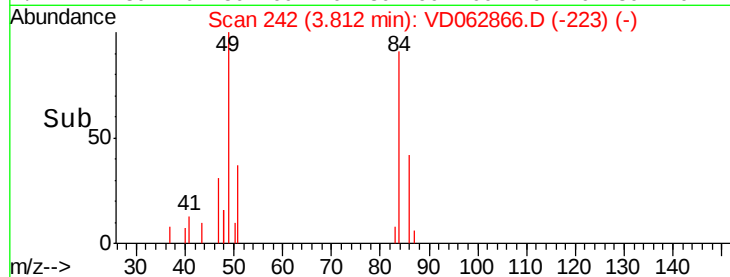
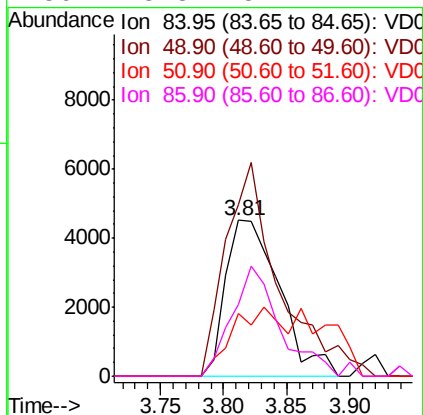
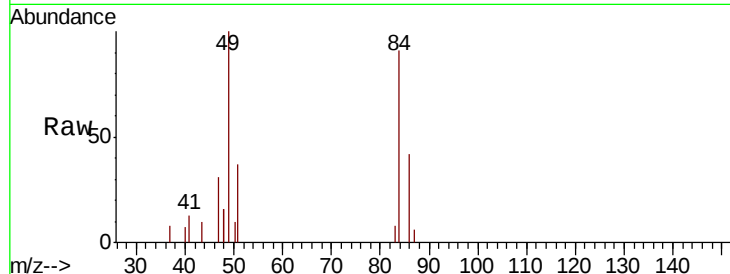




#20
Methylene Chloride
Concen: 4.690 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD062866.D
Acq: 25 Jun 2019 5:43

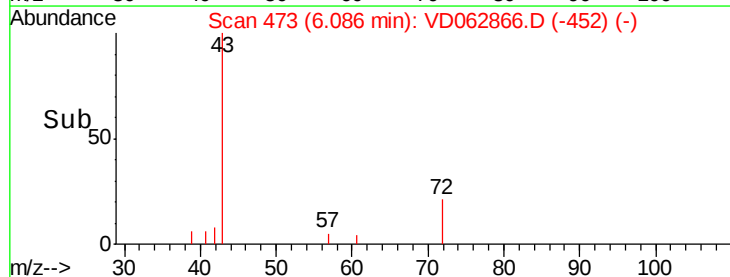
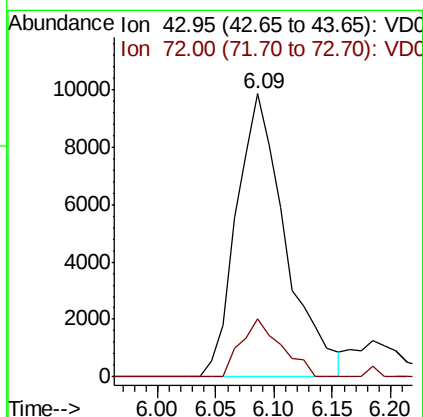
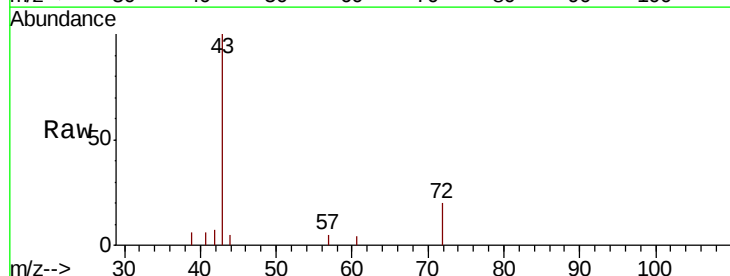
Instrument :
MSVOA_D
ClientSampleId :
BAT-B05

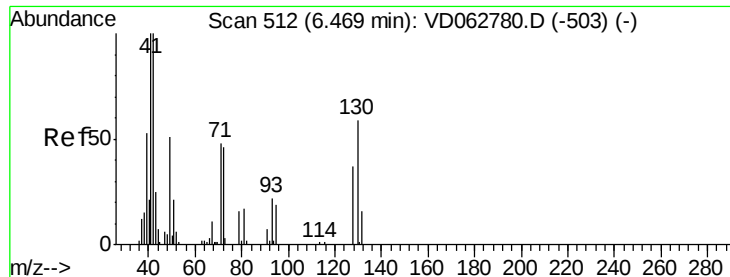
Tot Ion: 84 Resp: 13370
Ion Ratio Lower Upper
84 100
49 109.8 102.9 154.3
51 40.1 31.2 46.8
86 45.8 51.4 77.2#



#25
2-Butanone
Concen: 40.944 ug/l
RT: 6.09 min Scan# 473
Delta R.T. 0.01 min
Lab File: VD062866.D
Acq: 25 Jun 2019 5:43

Tgt Ion: 43 Resp: 28623
Ion Ratio Lower Upper
43 100
72 20.4 11.9 17.9#

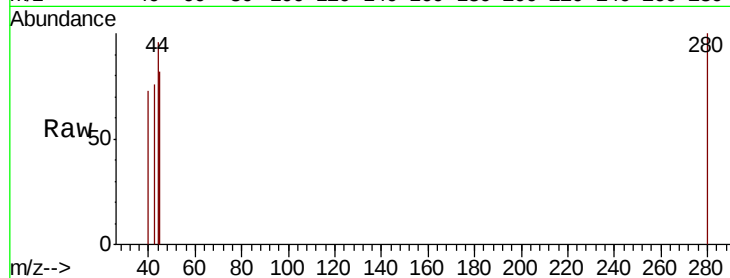




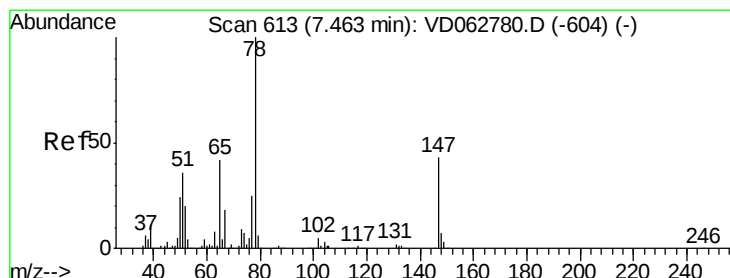
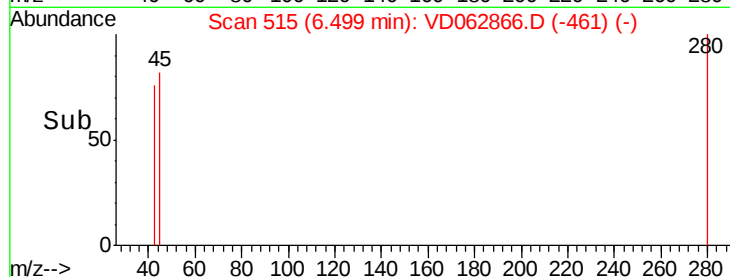
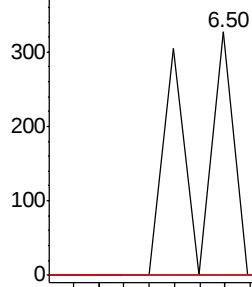
#29
Tetrahydrofuran
Concen: 1.128 ug/l
RT: 6.50 min Scan# 515
Delta R.T. 0.03 min
Lab File: VD062866.D
Acq: 25 Jun 2019 5:43

Instrument :
MSVOA_D
ClientSampleId :
BAT-B05

Tot Ion: 42 Resp: 373
Ion Ratio Lower Upper
42 100
72 0.0 35.0 52.6#
71 0.0 33.3 49.9#

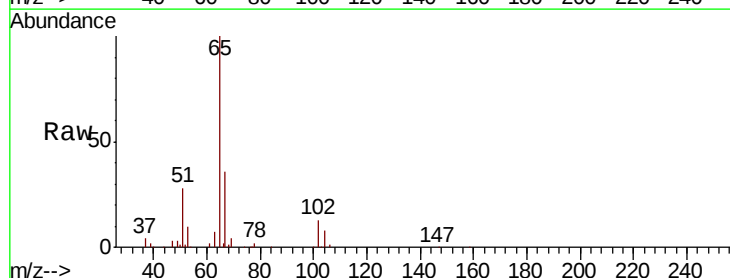


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

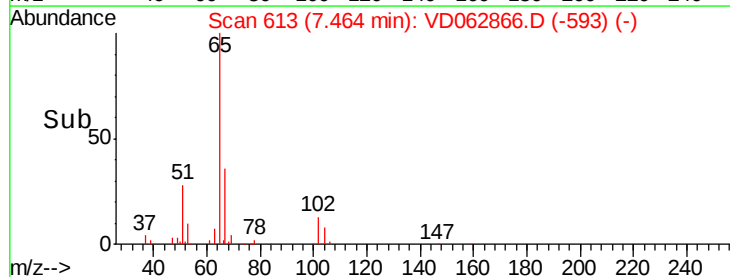
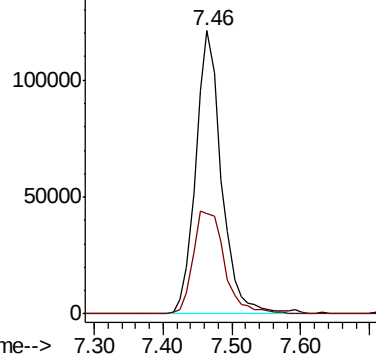


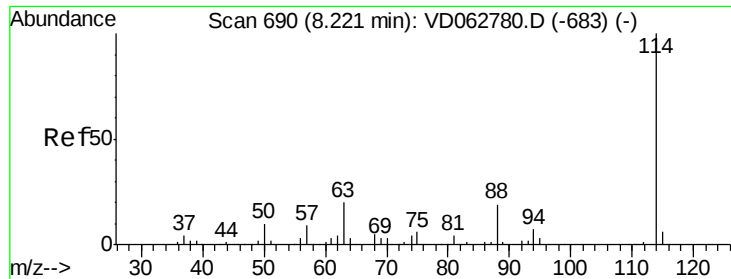
#33
1,2-Dichloroethane-d4
Concen: 84.082 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.00 min
Lab File: VD062866.D
Acq: 25 Jun 2019 5:43

Tgt Ion: 65 Resp: 314278
Ion Ratio Lower Upper
65 100
67 35.7 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

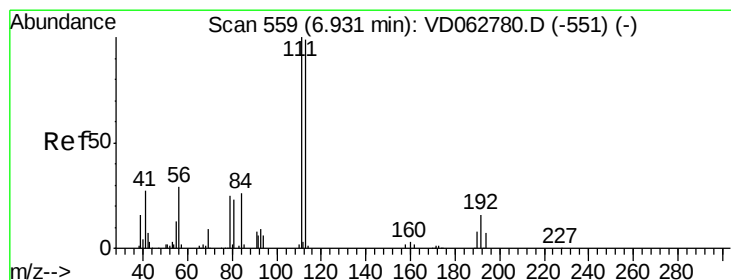
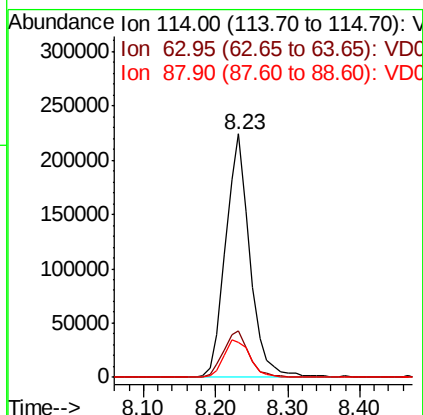
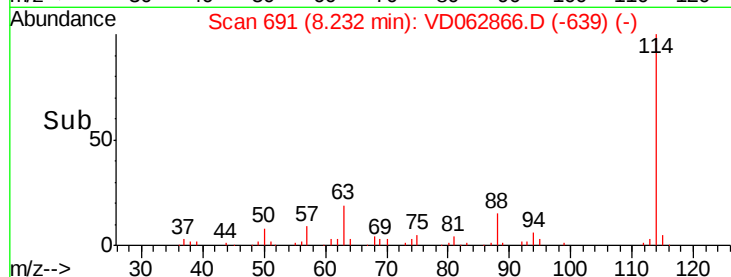
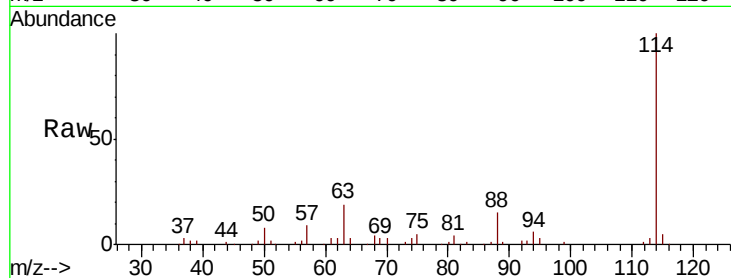




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD062866.D
 Acq: 25 Jun 2019 5:43

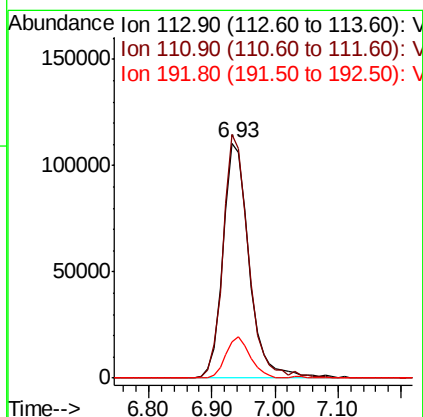
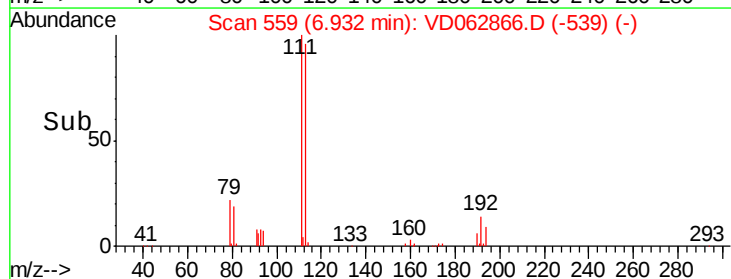
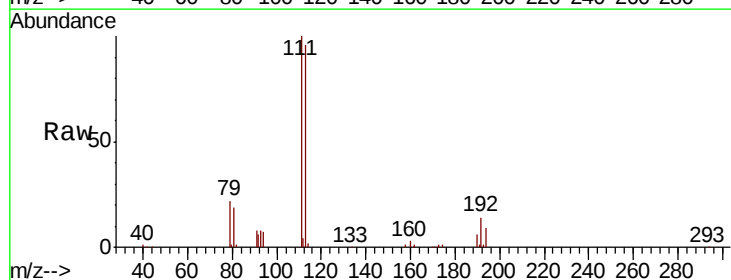
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 MSVOA_D
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 BAT-B05

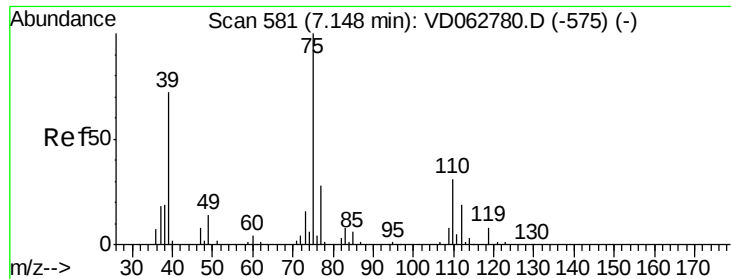
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	40.0
88	14.6	0.0	38.8



#35
 Dibromofluoromethane
 Concen: 71.698 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.00 min
 Lab File: VD062866.D
 Acq: 25 Jun 2019 5:43

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.2	121.8
192	15.5	12.9	19.3

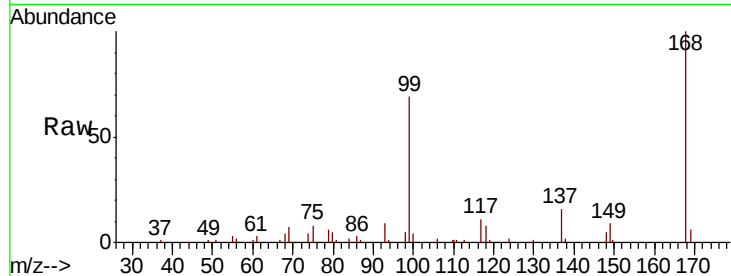




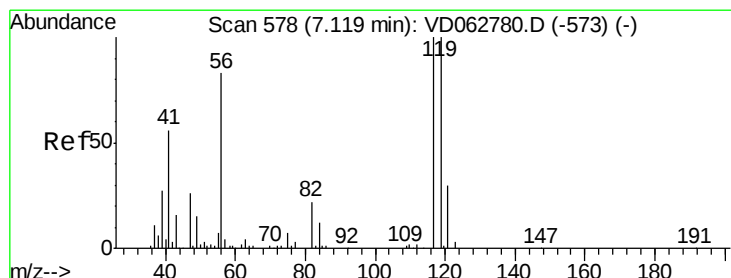
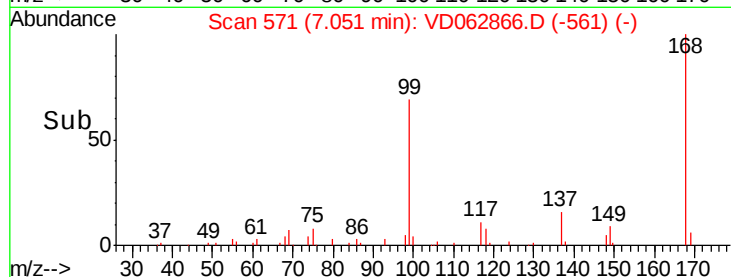
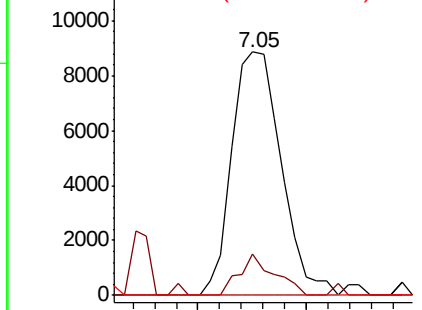
#36
 1,1-Dichloropropene
 Concen: 5.690 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD062866.D
 Acq: 25 Jun 2019 5:43

Instrument :
 MSVOA_D
 ClientSampleId :
 BAT-B05

Tot Ion	75	Resp	28281
Ion Ratio	Lower	Upper	
75	100		
110	16.8	15.0	45.1
77	0.0	22.2	33.2#

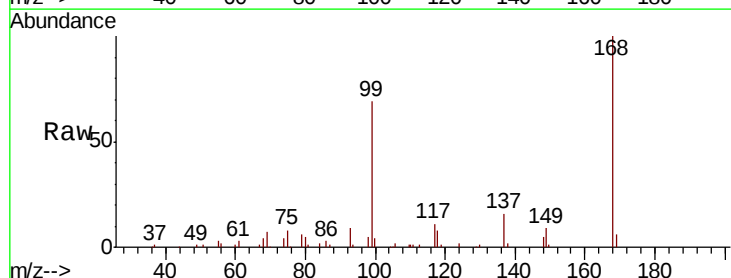


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

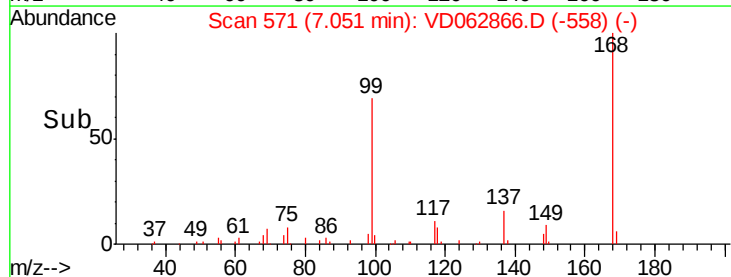
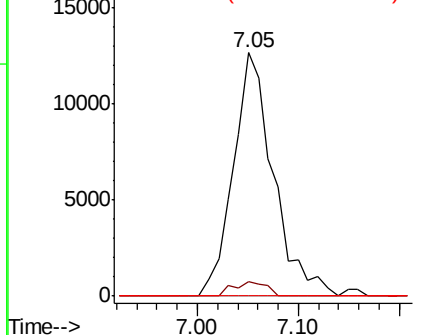


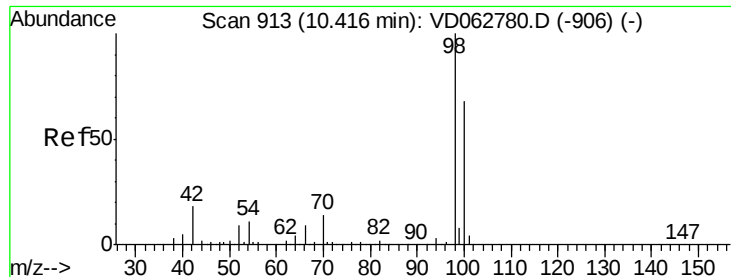
#38
 Carbon Tetrachloride
 Concen: 4.668 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD062866.D
 Acq: 25 Jun 2019 5:43

Tgt Ion	117	Resp	34896
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	6.2	75.4	113.2#
121	0.0	22.3	33.5#



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





#50

Toluene-d8

Concen: 40.405 ug/l

RT: 10.42 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD062866.D

Acq: 25 Jun 2019 5:43

Instrument :

MSVOA_D

ClientSampleId :

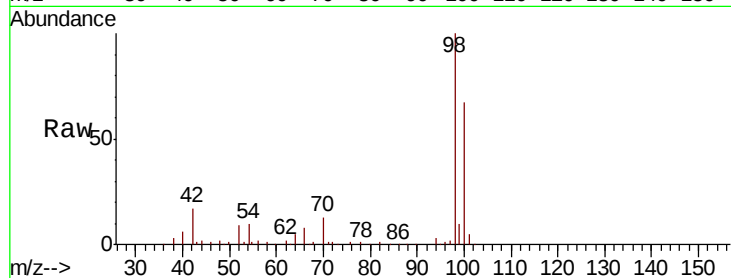
BAT-B05

Tot Ion: 98 Resp: 389315

Ion Ratio Lower Upper

98 100

100 66.8 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): VD062780.D (-906) (-)

Ion 100.05 (99.75 to 100.75): VD062780.D (-906) (-)

10.42

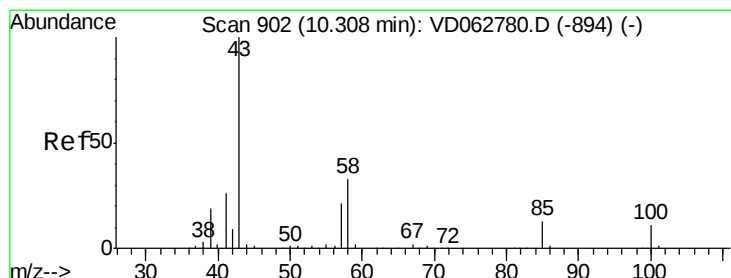
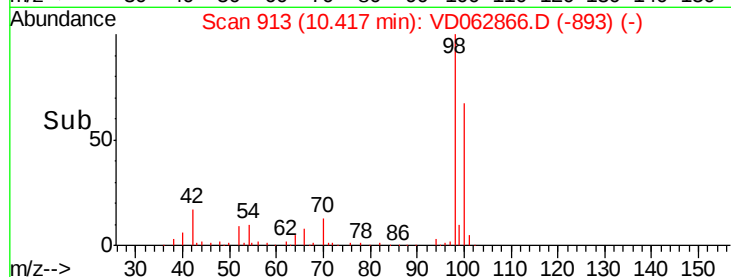
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.172 ug/l

RT: 10.32 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD062866.D

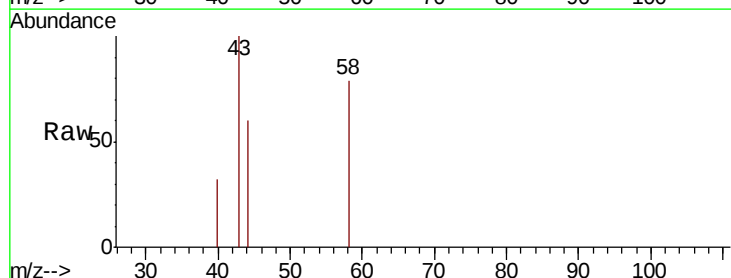
Acq: 25 Jun 2019 5:43

Tgt Ion: 43 Resp: 2166

Ion Ratio Lower Upper

43 100

58 79.1 26.6 40.0#



Abundance Ion 42.95 (42.65 to 43.65): VD062780.D (-894) (-)

Ion 57.95 (57.65 to 58.65): VD062780.D (-894) (-)

10.32

1200

1000

800

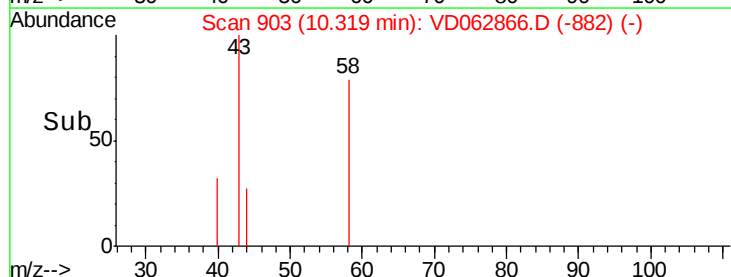
600

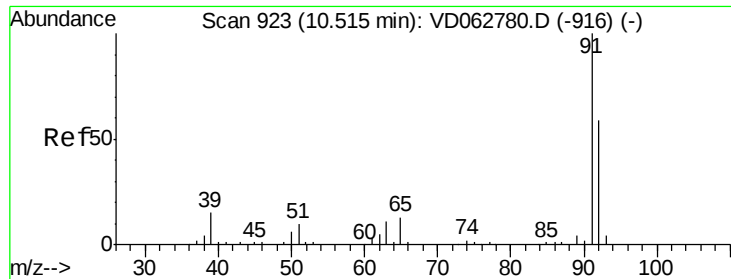
400

200

0

Time-->





#52

Toluene

Concen: 1.152 ug/l

RT: 10.52 min Scan# 923

Delta R.T. 0.00 min

Lab File: VD062866.D

Acq: 25 Jun 2019 5:43

Instrument :

MSVOA_D

ClientSampleId :

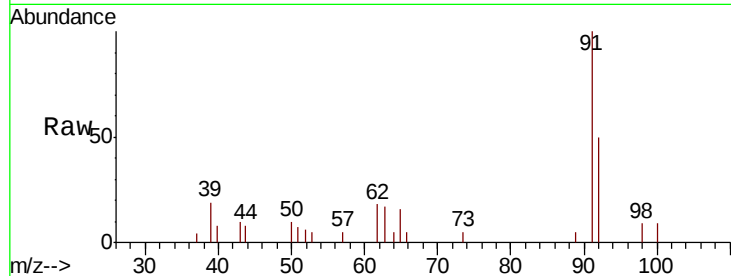
BAT-B05

Tot Ion: 92 Resp: 7727

Ion Ratio Lower Upper

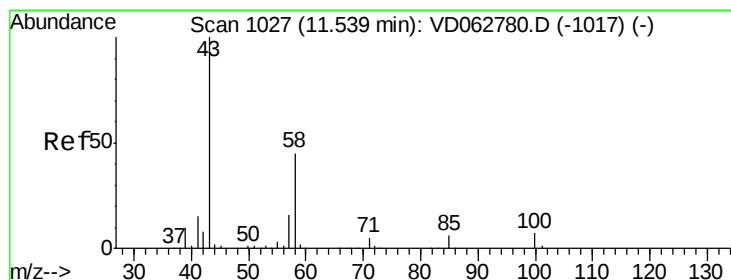
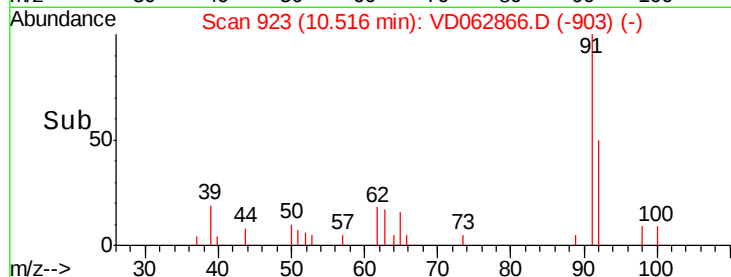
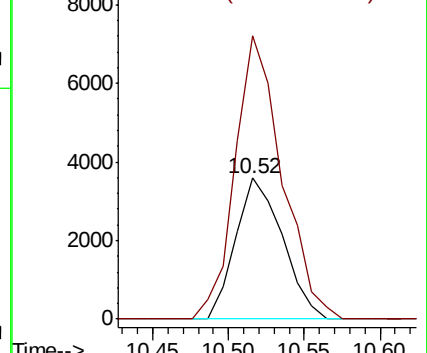
92 100

91 201.1 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 3.001 ug/l

RT: 11.54 min Scan# 1027

Delta R.T. 0.00 min

Lab File: VD062866.D

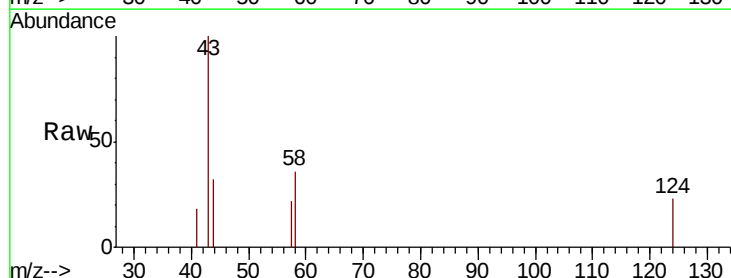
Acq: 25 Jun 2019 5:43

Tgt Ion: 43 Resp: 3949

Ion Ratio Lower Upper

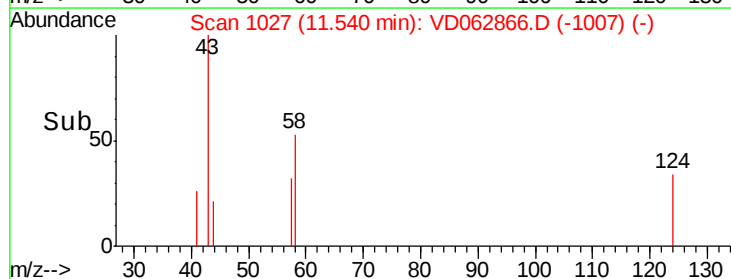
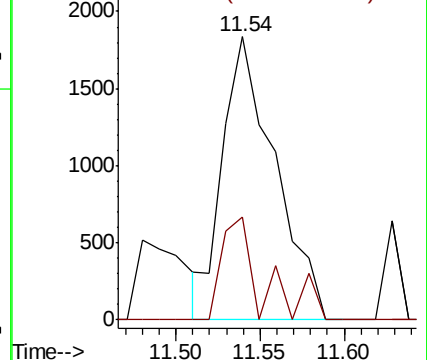
43 100

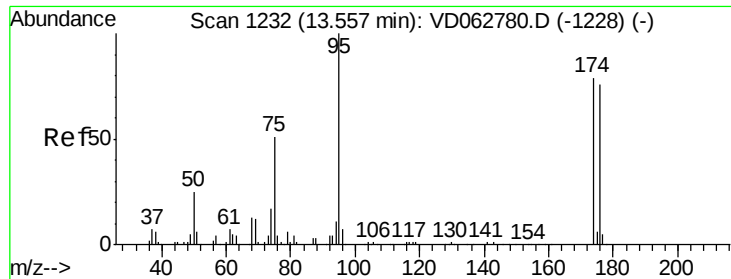
58 36.5 22.4 67.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

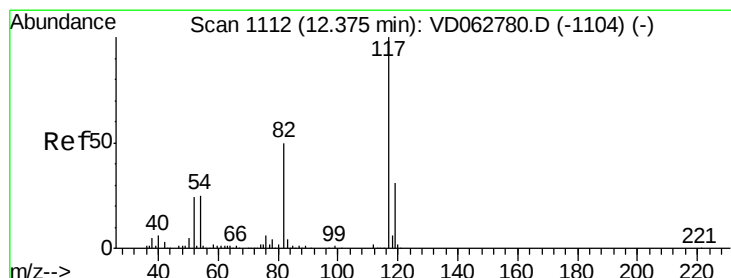
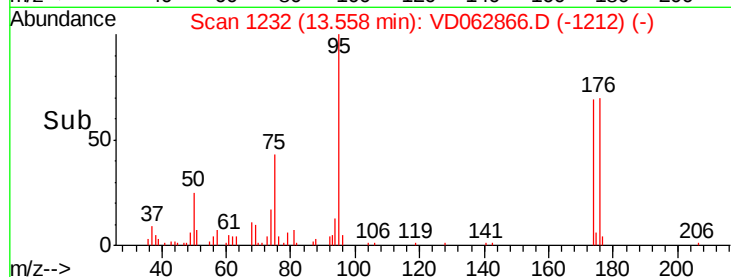
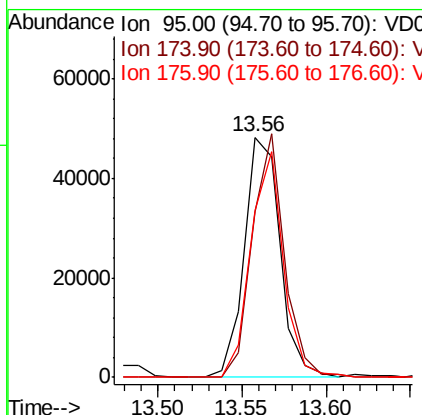
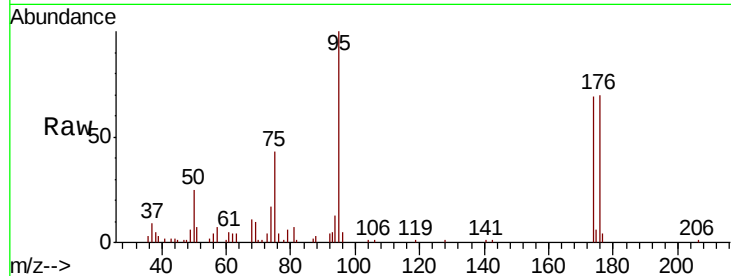




#62
4-Bromofluorobenzene
Concen: 16.240 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD062866.D
Acq: 25 Jun 2019 5:43

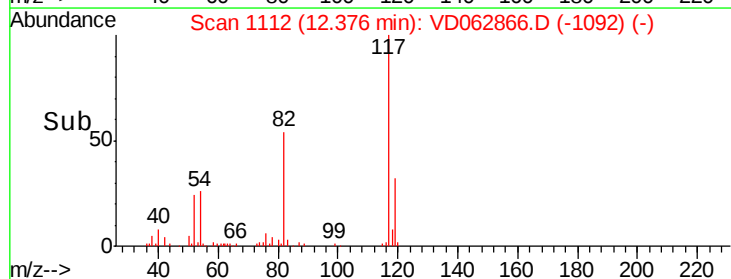
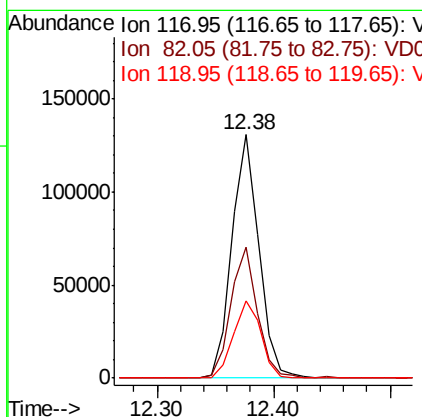
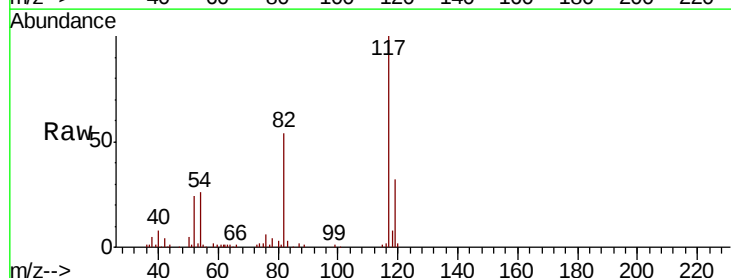
Instrument :
MSVOA_D
ClientSampleId :
BAT-B05

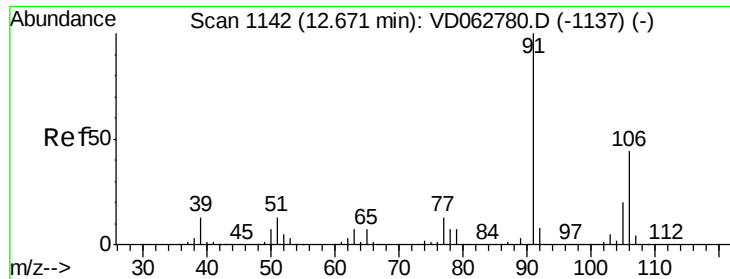
Tot Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	158.0
176	69.5	0.0	151.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD062866.D
Acq: 25 Jun 2019 5:43

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.7	40.4	60.6
119	31.7	25.2	37.8

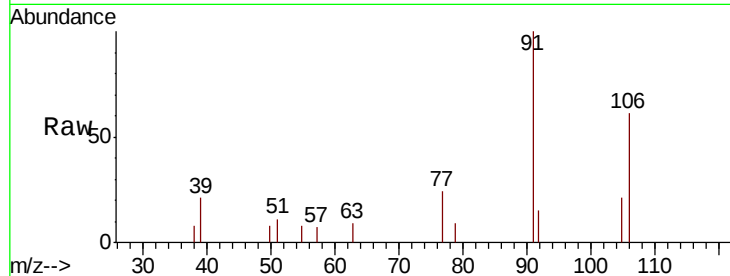




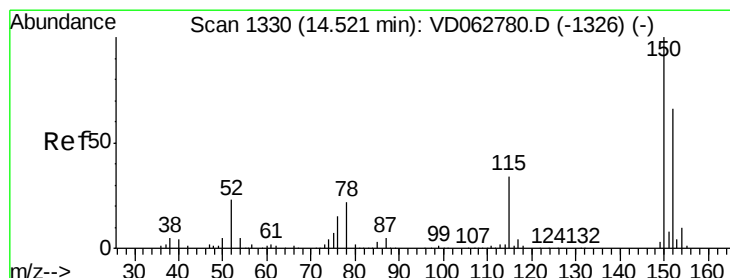
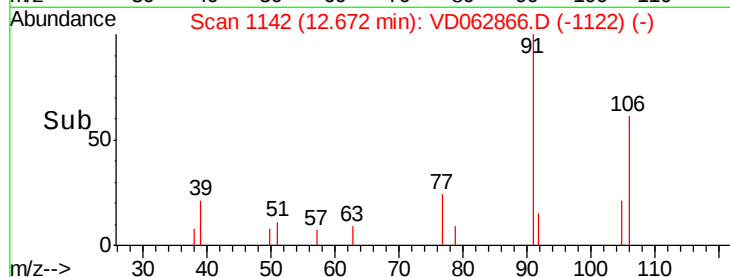
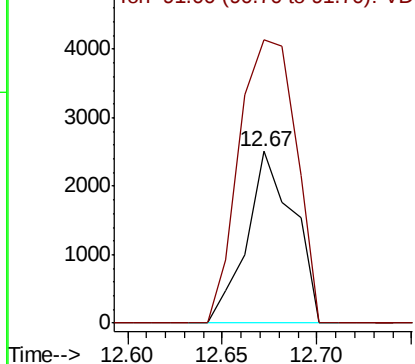
#68
m/p-Xvlenes
Concen: 1.775 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD062866.D
Acq: 25 Jun 2019 5:43

Instrument :
MSVOA_D
ClientSampleId :
BAT-B05

Tot Ion:106 Resp: 4310
Ion Ratio Lower Upper
106 100
91 164.7 183.0 274.6#

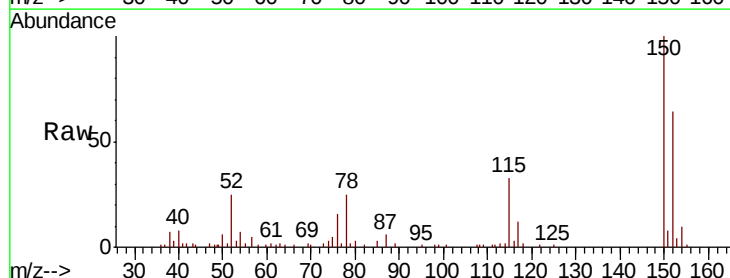


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

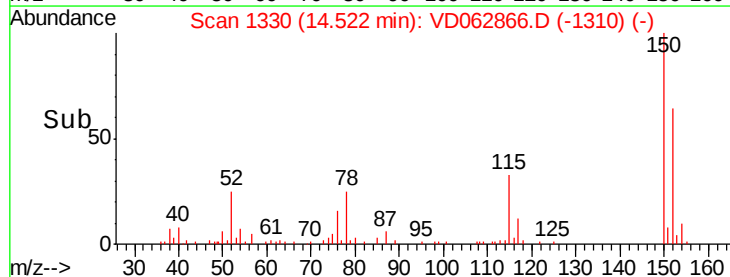
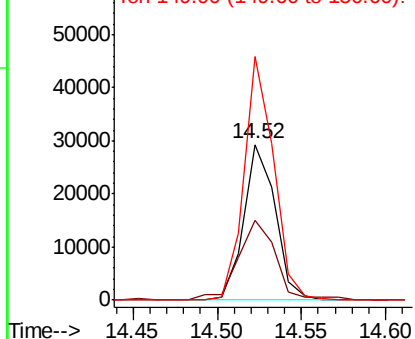


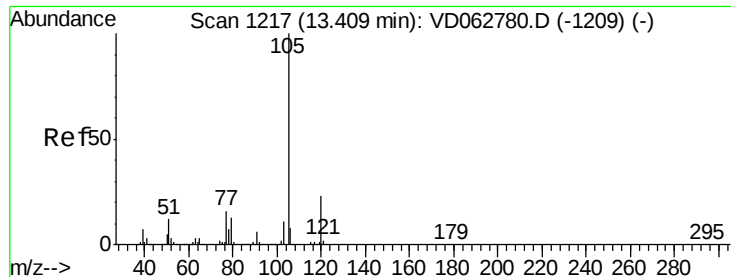
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062866.D
Acq: 25 Jun 2019 5:43

Tgt Ion:152 Resp: 38019
Ion Ratio Lower Upper
152 100
115 50.9 29.2 87.6
150 156.6 0.0 305.8



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





#73

Isopropylbenzene

Concen: 2.534 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD062866.D

Acq: 25 Jun 2019 5:43

Instrument :

MSVOA_D

ClientSampleId :

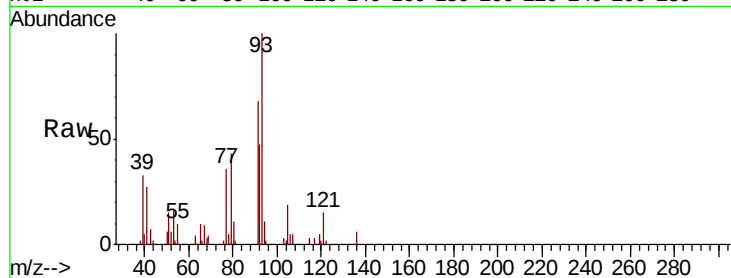
BAT-B05

Tot Ion:105 Resp: 6177

Ion Ratio Lower Upper

105 100

120 9.4 11.6 34.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

4000

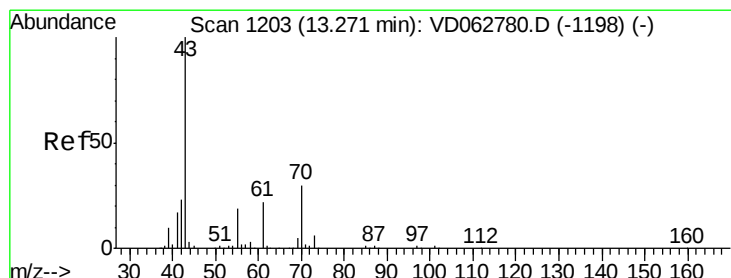
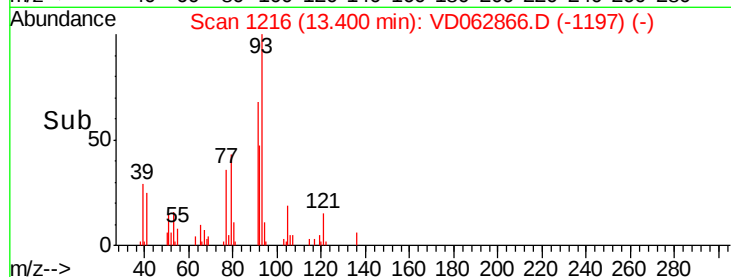
3000

2000

1000

0

Time--> 13.35 13.40 13.45



#74

N-ethyl acetate

Concen: 4.169 ug/l

RT: 13.31 min Scan# 1207

Delta R.T. 0.04 min

Lab File: VD062866.D

Acq: 25 Jun 2019 5:43

Tgt Ion: 43 Resp: 2468

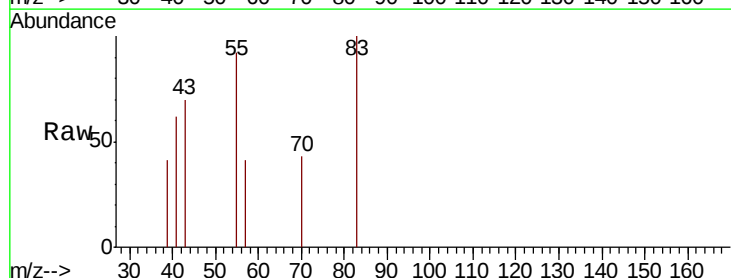
Ion Ratio Lower Upper

43 100

70 61.5 24.4 36.6#

55 131.6 15.2 22.8#

61 0.0 17.4 26.2#



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

2000

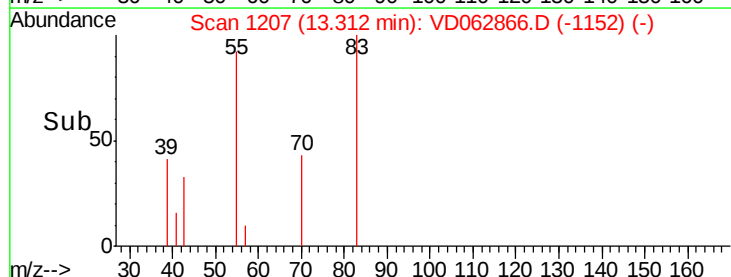
1500

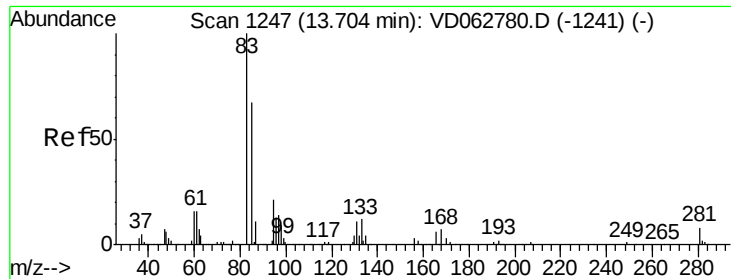
1000

500

0

Time--> 13.25 13.30 13.35

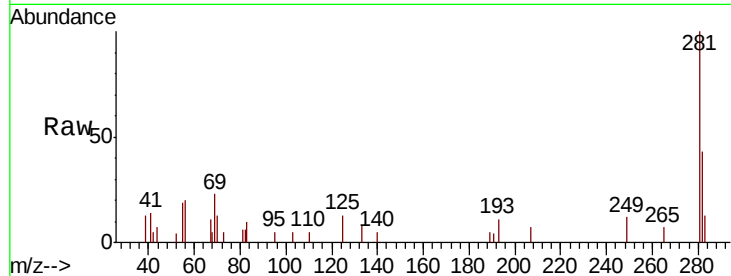




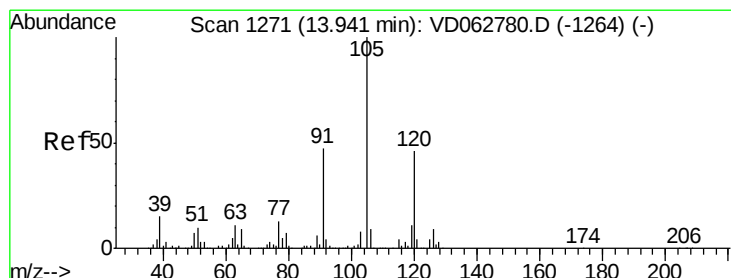
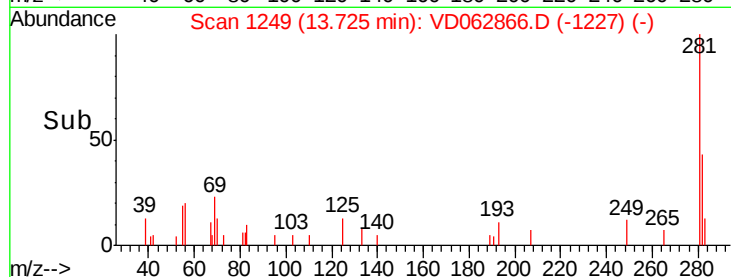
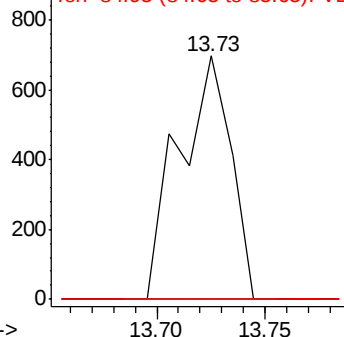
#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.923 ug/l
 RT: 13.73 min Scan# 1249
 Delta R.T. 0.02 min
 Lab File: VD062866.D
 Acq: 25 Jun 2019 5:43

Instrument :
 MSVOA_D
 ClientSampleId :
 BAT-B05

Tot Ion: 83 Resp: 1161
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.3 16.1#
 85 0.0 33.7 101.1#

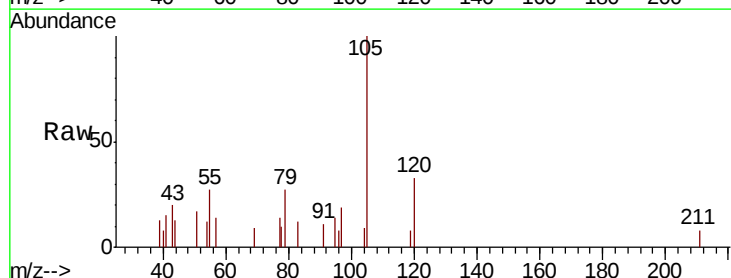


Abundance Ion 82.95 (82.65 to 83.65): V
 Ion 130.90 (130.60 to 131.60): V
 Ion 84.95 (84.65 to 85.65): V

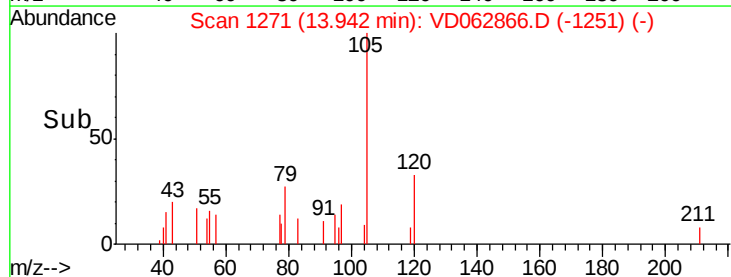
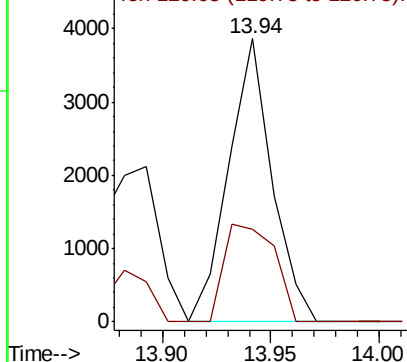


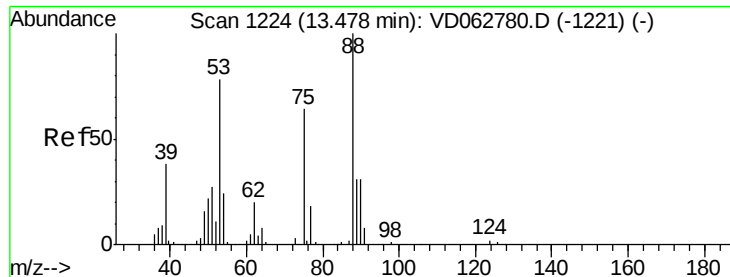
#80
 1,3,5-Trimethylbenzene
 Concen: 2.635 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VD062866.D
 Acq: 25 Jun 2019 5:43

Tgt Ion: 105 Resp: 5395
 Ion Ratio Lower Upper
 105 100
 120 32.8 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 290.630 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062866.D

Acq: 25 Jun 2019 5:43

Instrument :

MSVOA_D

ClientSampleId :

BAT-B05

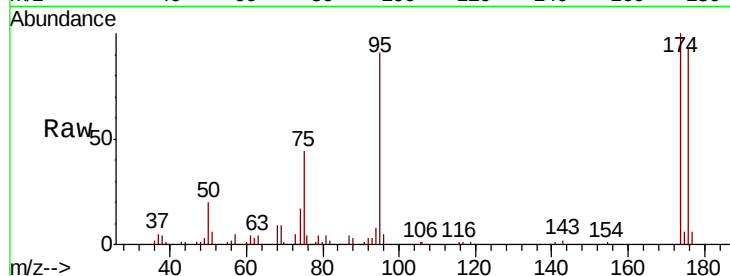
Tot Ion: 75 Resp: 33431

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

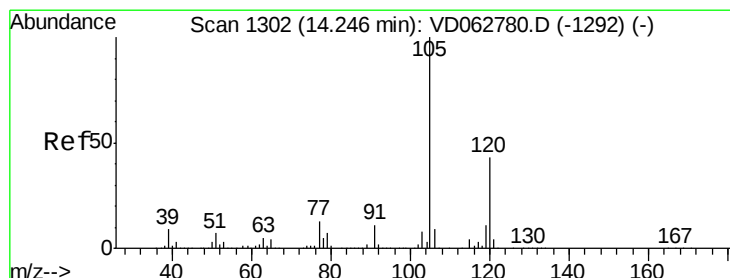
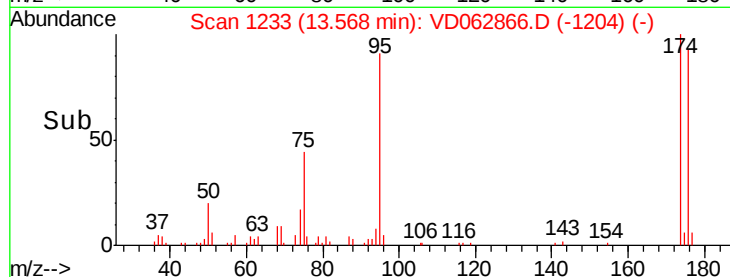
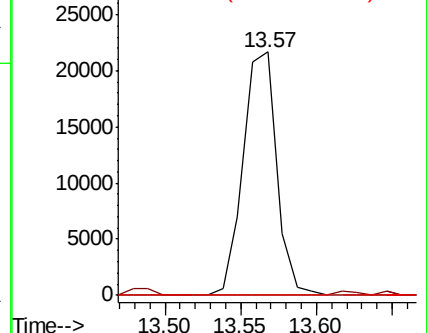
89 0.0 39.4 59.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 6.082 ug/l

RT: 14.25 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VD062866.D

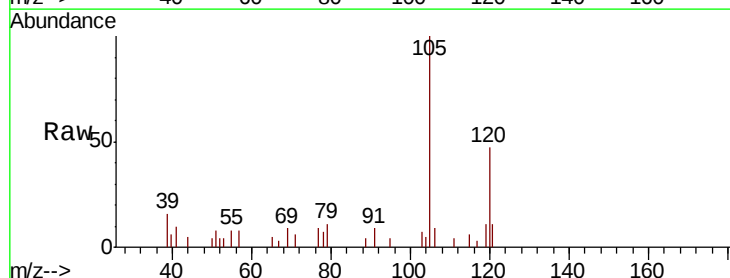
Acq: 25 Jun 2019 5:43

Tgt Ion:105 Resp: 12764

Ion Ratio Lower Upper

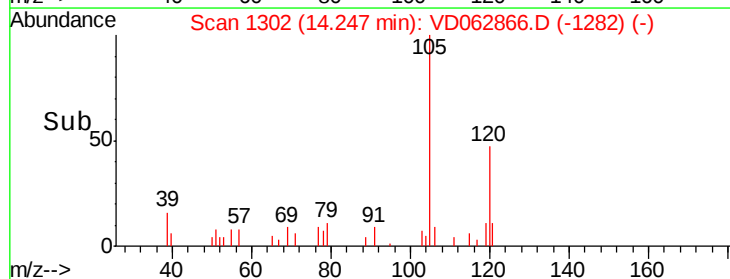
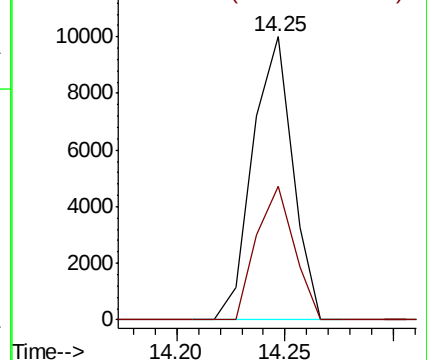
105 100

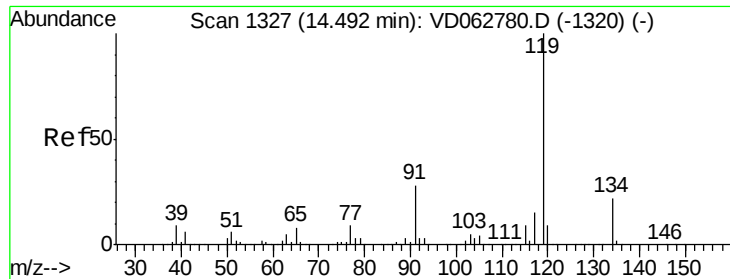
120 47.2 21.3 63.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

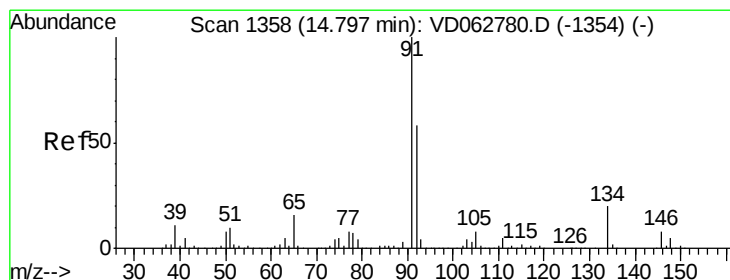
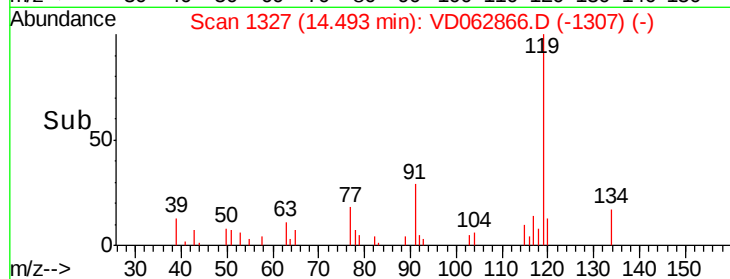
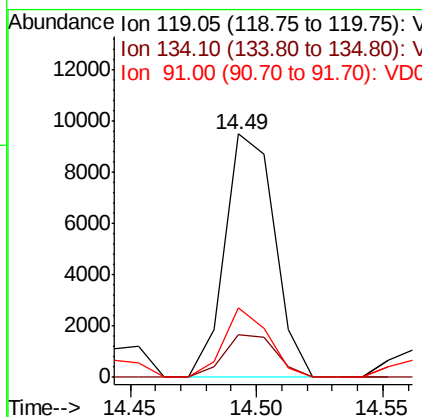
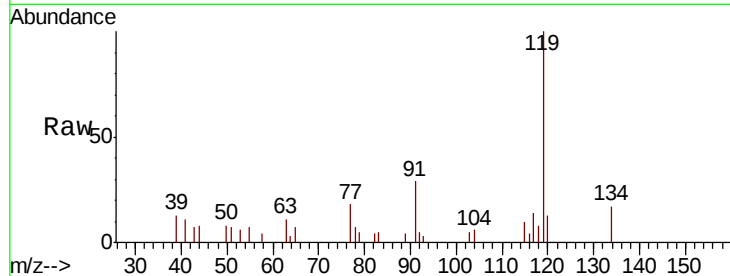




#86
 p-Isopropyltoluene
 Concen: 5.714 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. 0.00 min
 Lab File: VD062866.D
 Acq: 25 Jun 2019 5:43

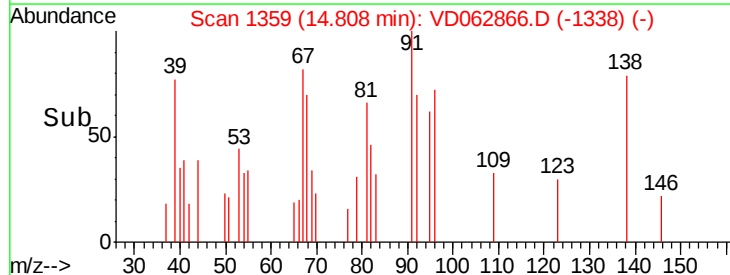
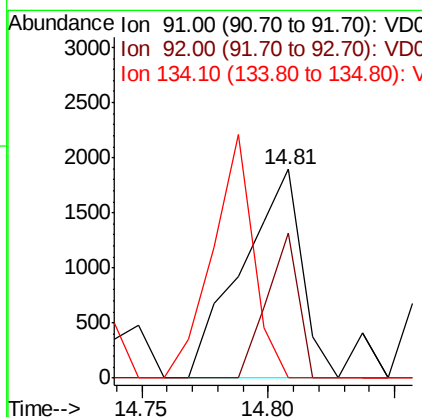
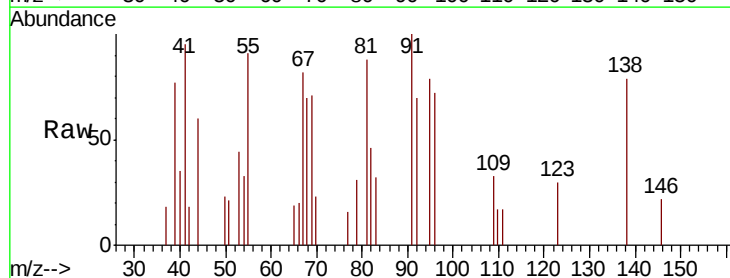
Instrument :
 MSVOA_D
 ClientSampleID :
 BAT-B05

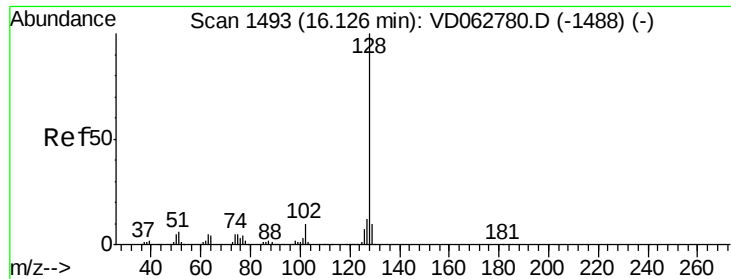
Tot Ion	Ratio	Lower	Upper
119	100		
134	17.4	11.1	33.1
91	28.6	14.0	41.9



#89
 n-Butylbenzene
 Concen: 1.473 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD062866.D
 Acq: 25 Jun 2019 5:43

Tgt Ion	Ratio	Lower	Upper
91	100		
92	69.8	28.9	86.7
134	0.0	10.1	30.3





#95

Naphthalene

Concen: 224.162 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD062866.D

Acq: 25 Jun 2019 5:43

Instrument :

MSVOA_D

ClientSampleId :

BAT-B05

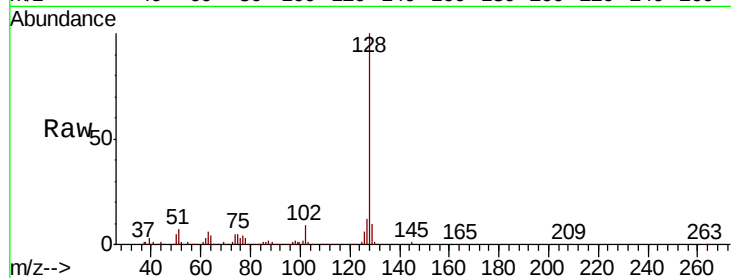
Tot Ion:128 Resp: 246804

Ion Ratio Lower Upper

128 100

127 11.8 9.7 14.5

129 10.2 8.3 12.5



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

