

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062519\
 Data File : VD062883.D
 Acq On : 25 Jun 2019 17:04
 Operator : VA/AP
 Sample : K3164-03RE
 Misc : 5.29g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BAT-B05RE

Quant Time: Jun 26 05:35:34 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	520976	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	767230	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.38	117	340690	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	62559	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	392509	69.31	ug/l	0.00
Spiked Amount			Recovery	=	138.62%	
35) Dibromofluoromethane	6.93	113	240076	37.11	ug/l	0.00
Spiked Amount			Recovery	=	74.22%	
50) Toluene-d8	10.42	98	471905	33.52	ug/l	0.00
Spiked Amount			Recovery	=	67.04%	
62) 4-Bromofluorobenzene	13.56	95	97069	15.16	ug/l	0.00
Spiked Amount			Recovery	=	30.32%	

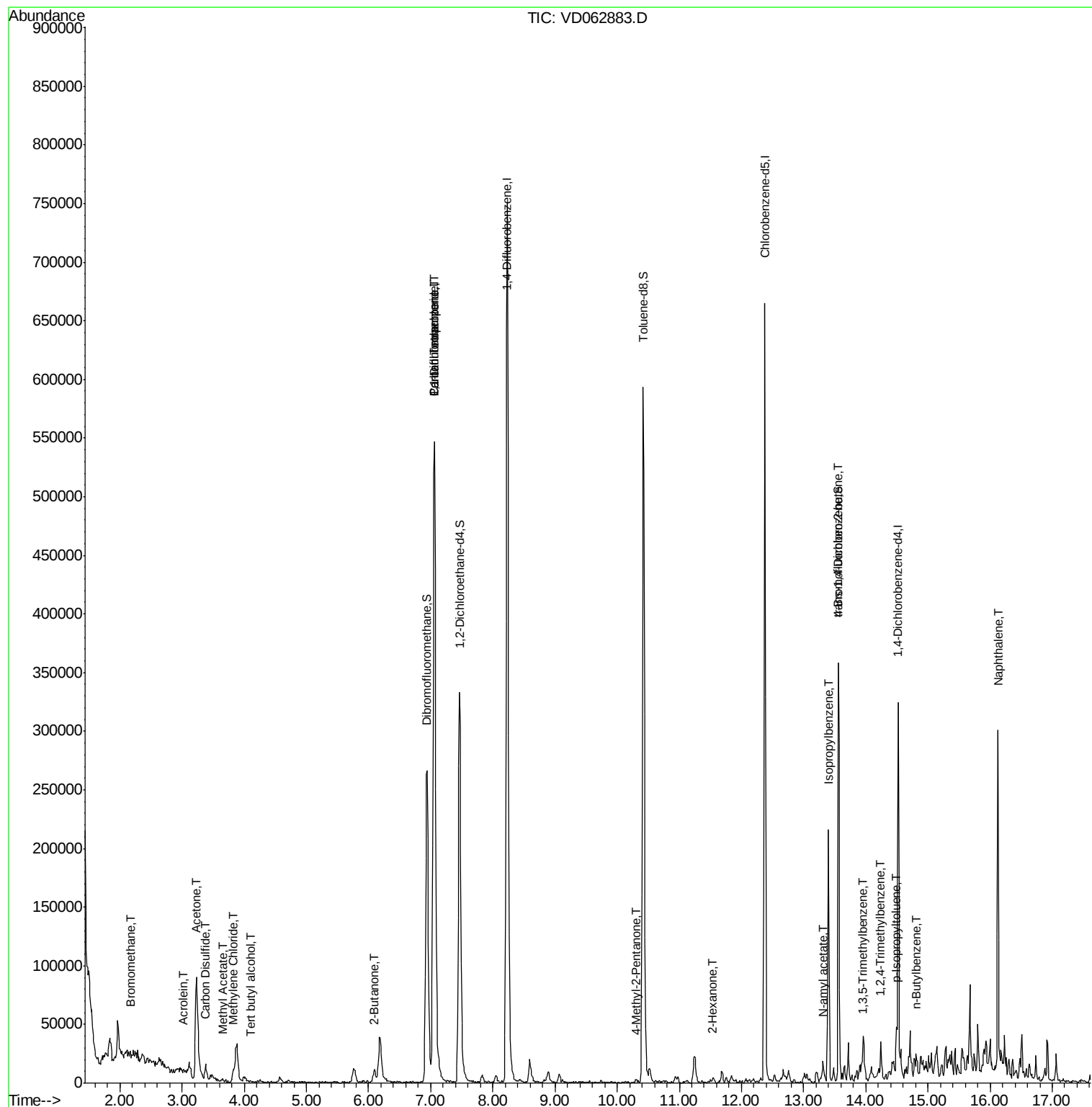
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	4455	1.892	ug/l #	13
11) Tert butyl alcohol	4.12	59	1313	5.091	ug/l #	77
13) Acrolein	3.01	56	392	1.489	ug/l #	1
16) Acetone	3.23	43	200995	172.864	ug/l	97
17) Carbon Disulfide	3.38	76	20774	1.572	ug/l	100
18) Methyl Acetate	3.65	43	2941	1.720	ug/l #	58
20) Methylene Chloride	3.82	84	5797	1.342	ug/l #	69
25) 2-Butanone	6.10	43	23034	21.748	ug/l #	70
36) 1,1-Dichloropropene	7.05	75	43862	6.039	ug/l #	59
37) Ethyl Acetate	6.27	43	868	Below Cal	#	69
38) Carbon Tetrachloride	7.06	117	51672	4.731	ug/l #	20
51) 4-Methyl-2-Pentanone	10.31	43	3665	1.358	ug/l	91
59) 2-Hexanone	11.54	43	3545	1.844	ug/l #	57
73) Isopropylbenzene	13.40	105	9369	2.336	ug/l	93
74) N-amyl acetate	13.31	43	2367	2.430	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.94	105	3978	1.181	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.56	75	43638	230.551	ug/l #	2
84) 1,2,4-Trimethylbenzene	14.24	105	14474	4.191	ug/l	81
86) p-Isopropyltoluene	14.49	119	18146	4.859	ug/l	95
89) n-Butylbenzene	14.81	91	4004	1.146	ug/l #	31
95) Naphthalene	16.13	128	155285	85.714	ug/l	99

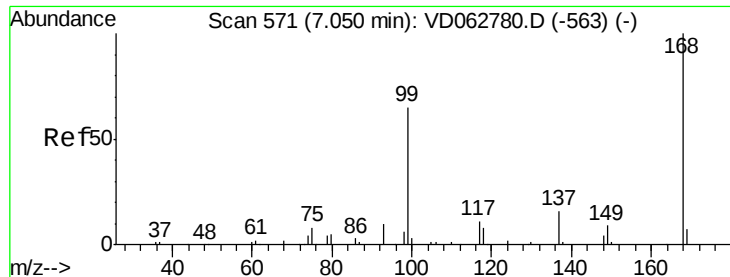
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD062883.D
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QLast Update : Thu Jun 20 01:50:56 2019
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: VD062883.D

Acq: 25 Jun 2019 17:04

Instrument :

MSVOA_D

ClientSampleId :

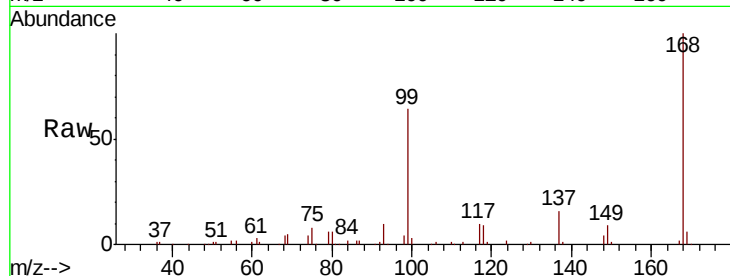
BAT-B05RE

Tot Ion:168 Resp: 520976

Ion Ratio Lower Upper

168 100

99 64.4 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

200000

150000

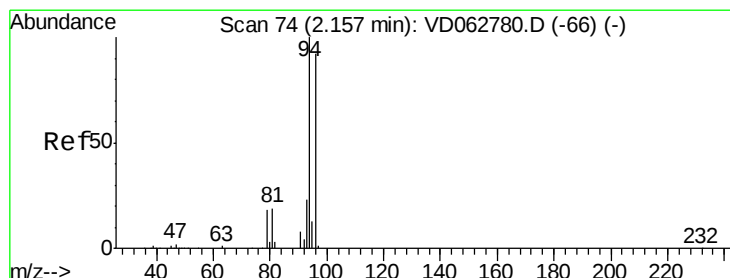
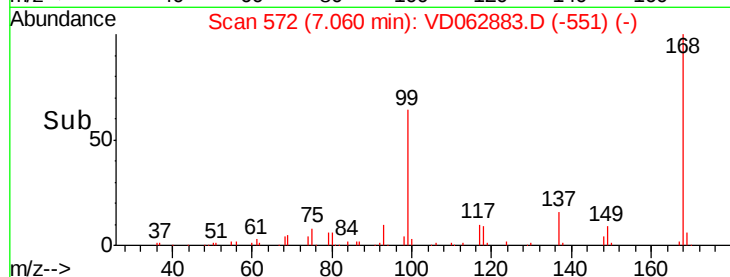
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.892 ug/l

RT: 2.16 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD062883.D

Acq: 25 Jun 2019 17:04

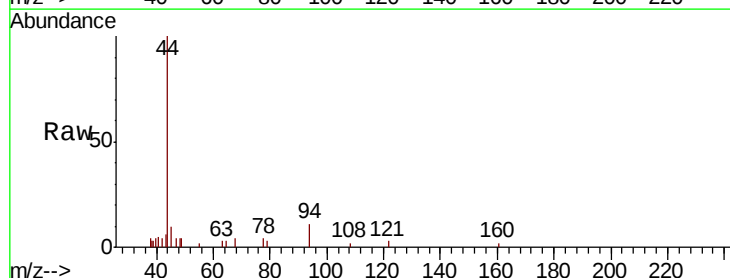
Tgt Ion: 94 Resp: 4455

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.2#

93 0.0 18.2 27.4#



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

2000

1500

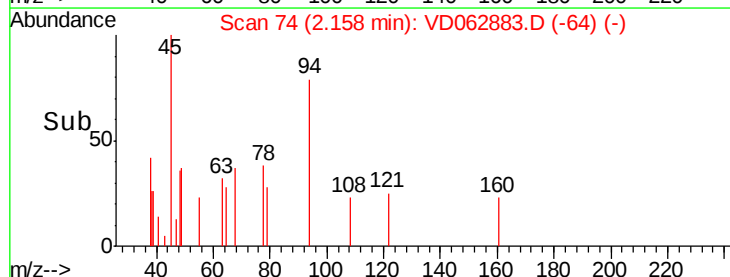
1000

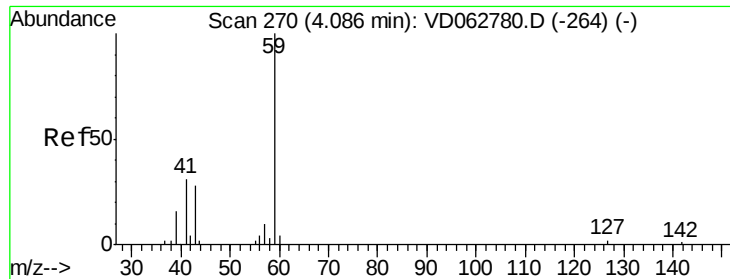
500

0

Time-->

2.10 2.15 2.20

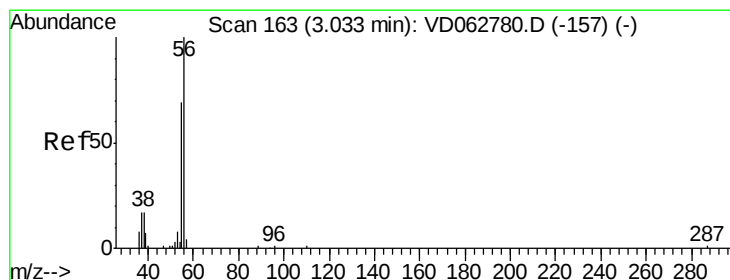
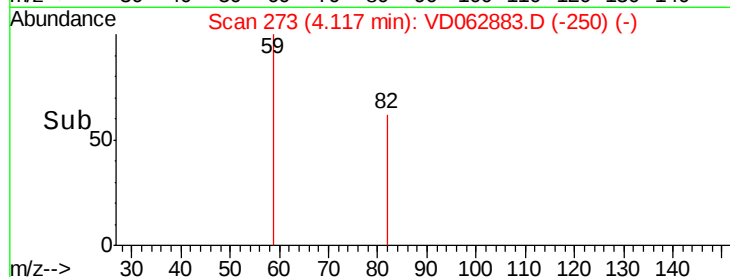
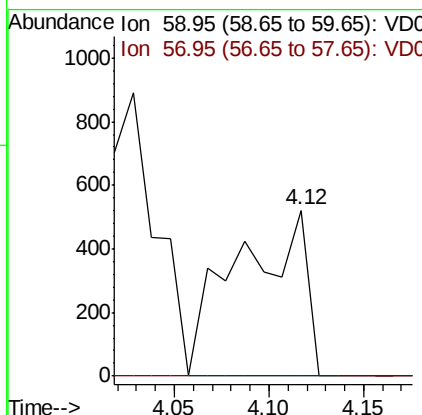
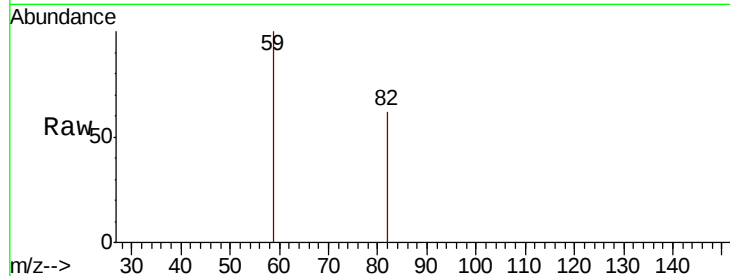




#11
Tert butyl alcohol
Concen: 5.091 ug/l
RT: 4.12 min Scan# 273
Delta R.T. 0.03 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

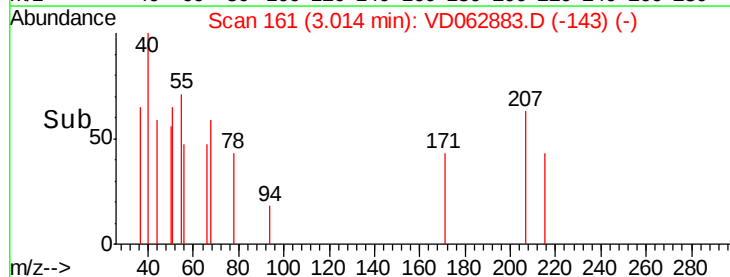
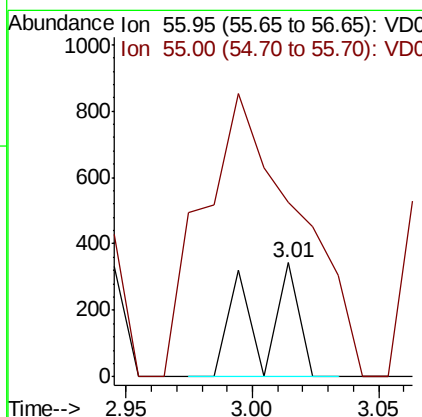
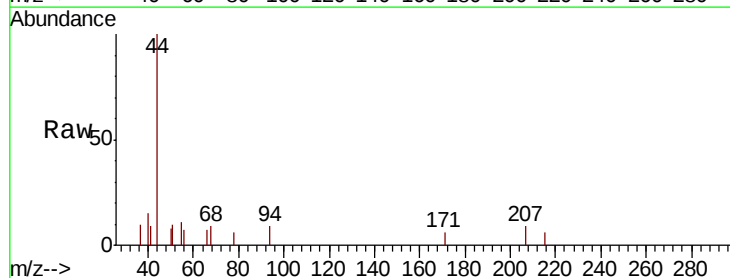
Instrument :
MSVOA_D
ClientSampleId :
BAT-B05RE

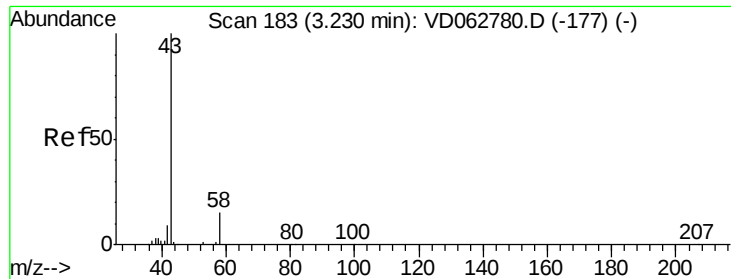
Tot Ion: 59 Resp: 1313
Ion Ratio Lower Upper
59 100
57 0.0 6.6 10.0#



#13
Acrolein
Concen: 1.489 ug/l
RT: 3.01 min Scan# 161
Delta R.T. -0.02 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

Tgt Ion: 56 Resp: 392
Ion Ratio Lower Upper
56 100
55 153.4 55.4 83.0#





#16

Acetone

Concen: 172.864 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD062883.D

Acq: 25 Jun 2019 17:04

Instrument :

MSVOA_D

ClientSampleId :

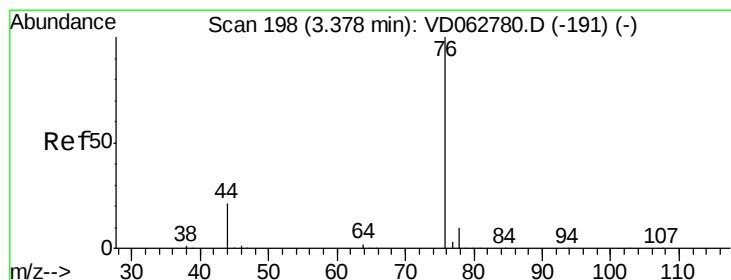
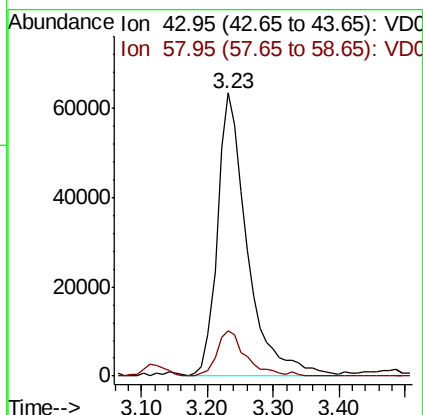
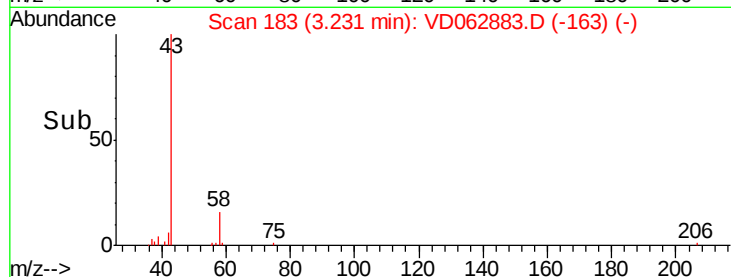
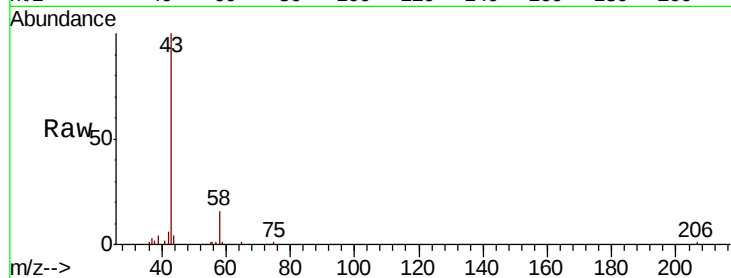
BAT-B05RE

Tot Ion: 43 Resp: 200995

Ion Ratio Lower Upper

43 100

58 16.2 11.9 17.9



#17

Carbon Disulfide

Concen: 1.572 ug/l

RT: 3.38 min Scan# 198

Delta R.T. 0.00 min

Lab File: VD062883.D

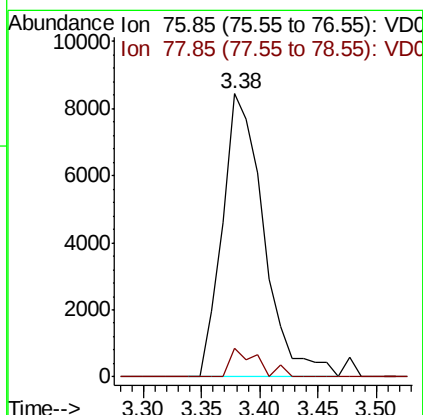
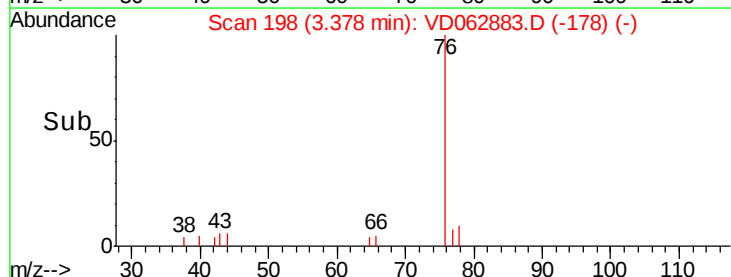
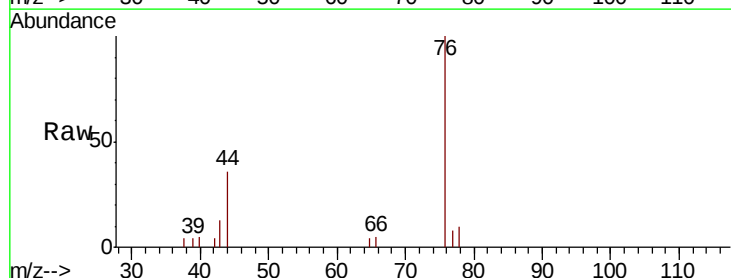
Acq: 25 Jun 2019 17:04

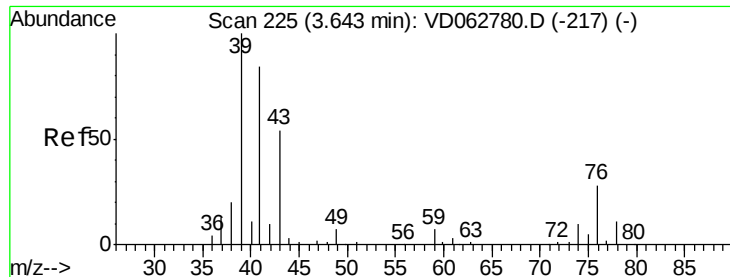
Tgt Ion: 76 Resp: 20774

Ion Ratio Lower Upper

76 100

78 10.1 8.0 12.0

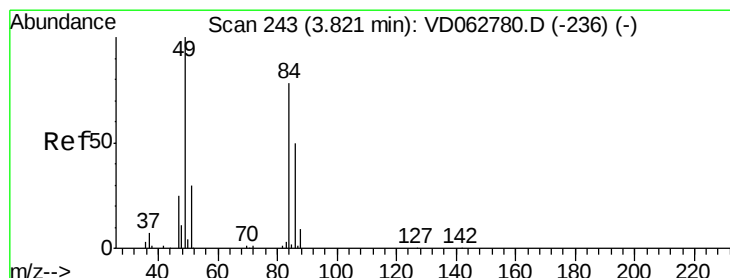
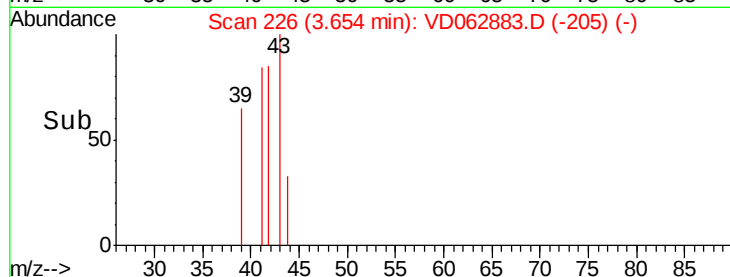
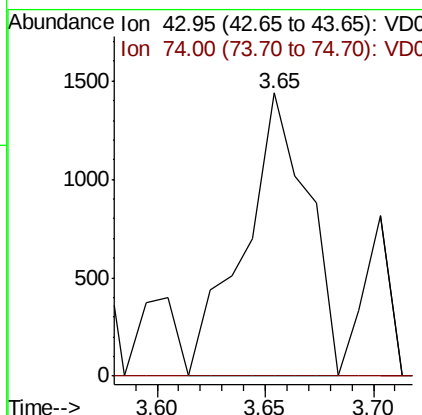
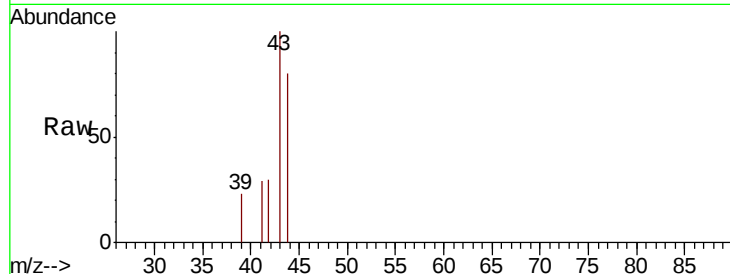




#18
Methyl Acetate
Concen: 1.720 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

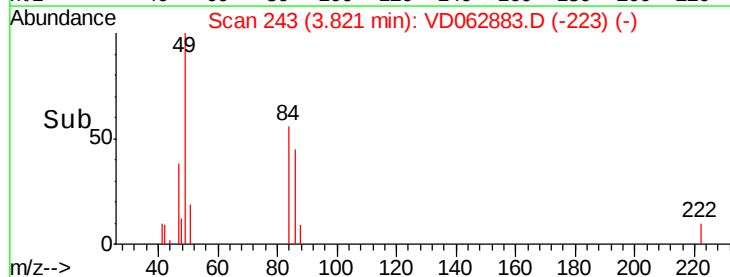
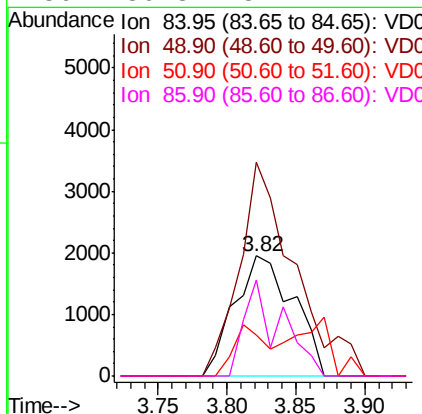
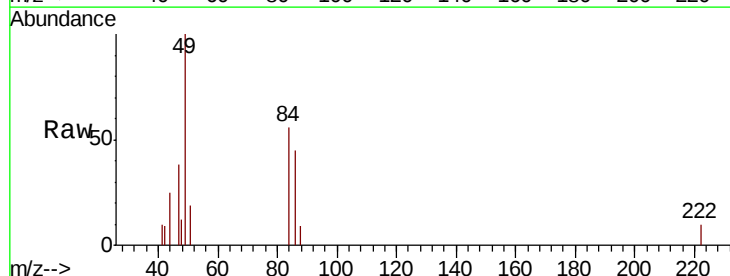
Instrument :
MSVOA_D
ClientSampleId :
BAT-B05RE

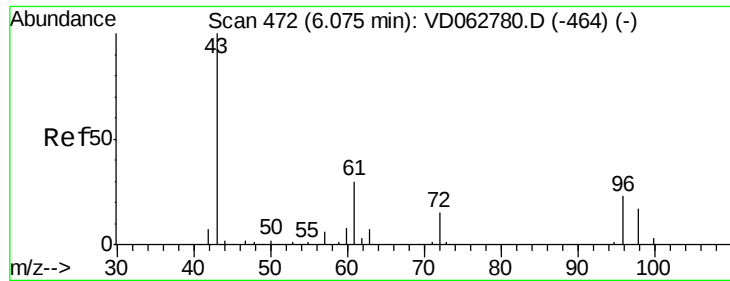
Tot Ion: 43 Resp: 2941
Ion Ratio Lower Upper
43 100
74 0.0 15.2 22.8#



#20
Methylene Chloride
Concen: 1.342 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.00 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

Tgt Ion: 84 Resp: 5797
Ion Ratio Lower Upper
84 100
49 177.9 102.9 154.3#
51 33.7 31.2 46.8
86 80.3 51.4 77.2#





#25

2-Butanone

Concen: 21.748 ug/l

RT: 6.10 min Scan# 474

Delta R.T. 0.02 min

Lab File: VD062883.D

Acq: 25 Jun 2019 17:04

Instrument :

MSVOA_D

ClientSampleId :

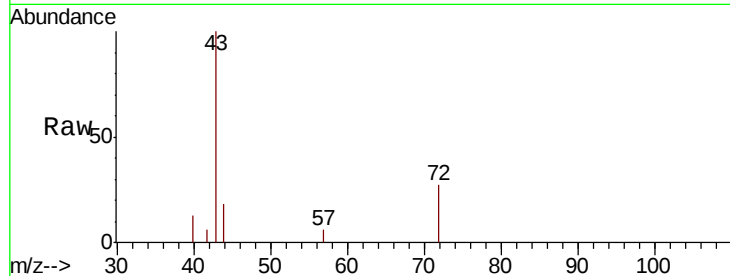
BAT-B05RE

Tot Ion: 43 Resp: 23034

Ion Ratio Lower Upper

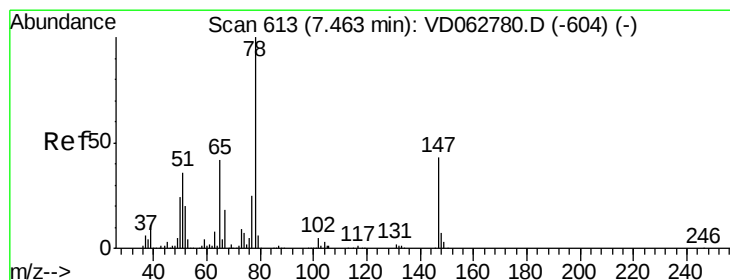
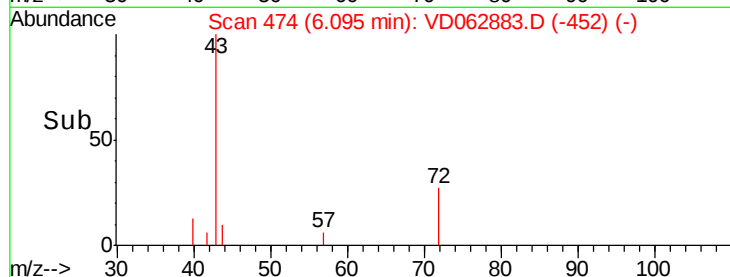
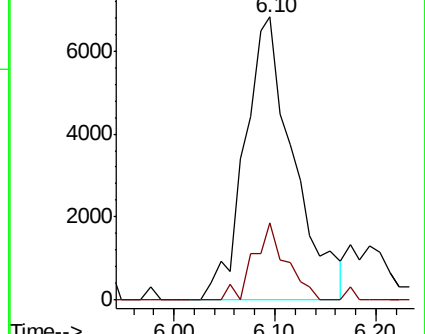
43 100

72 27.2 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 69.312 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD062883.D

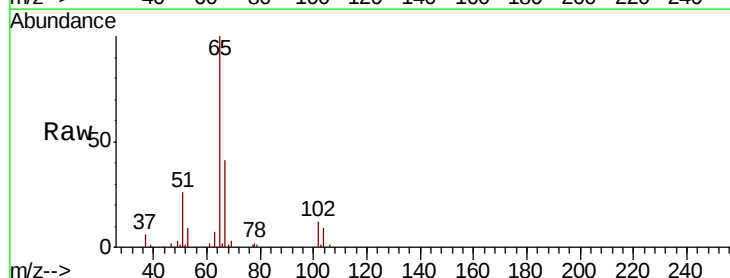
Acq: 25 Jun 2019 17:04

Tgt Ion: 65 Resp: 392509

Ion Ratio Lower Upper

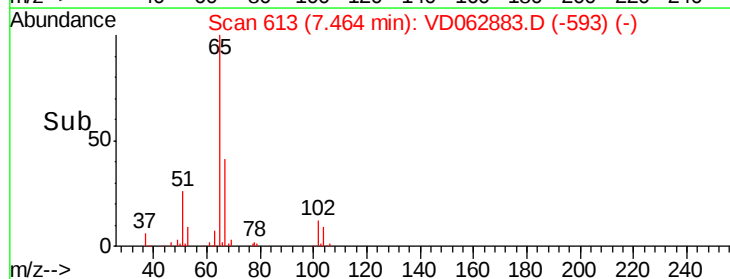
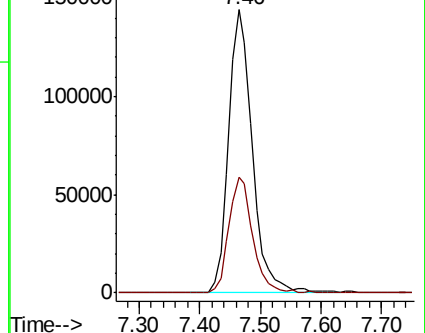
65 100

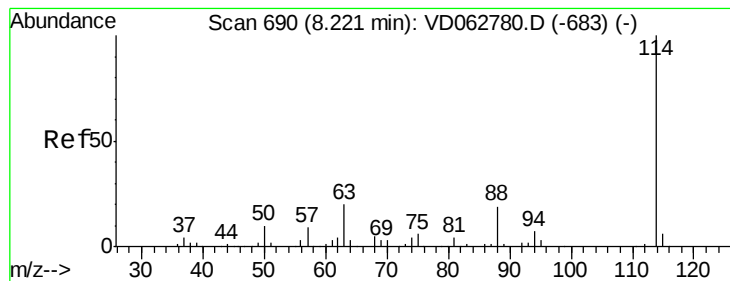
67 40.8 0.0 87.4



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: VD062883.D

Acq: 25 Jun 2019 17:04

Instrument :

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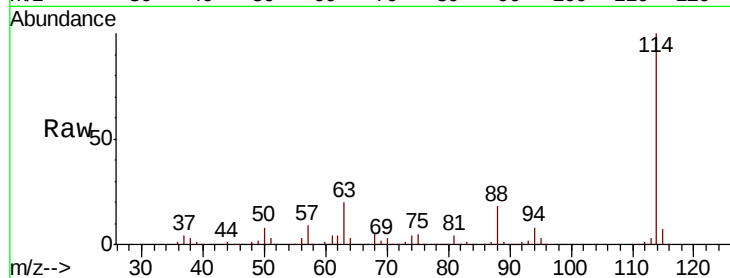
Tot Ion:114 Resp: 767230

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

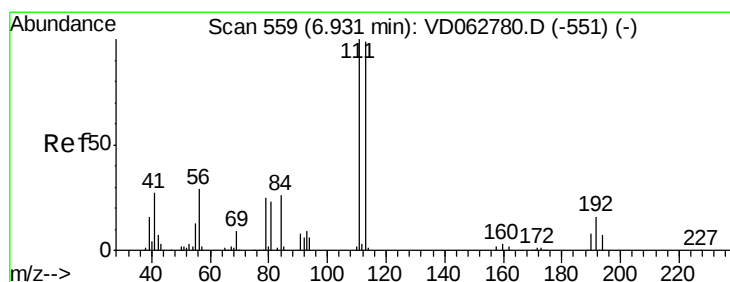
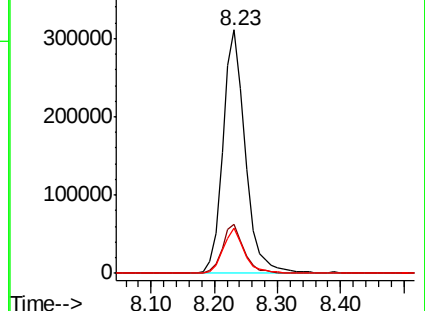
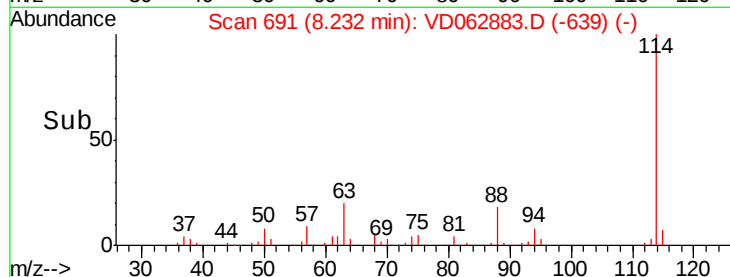
88 18.4 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 37.110 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD062883.D

Acq: 25 Jun 2019 17:04

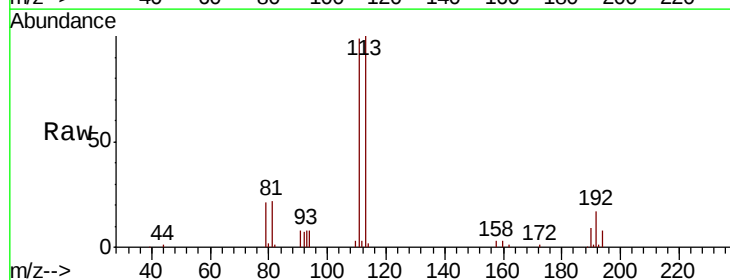
Tgt Ion:113 Resp: 240076

Ion Ratio Lower Upper

113 100

111 98.8 81.2 121.8

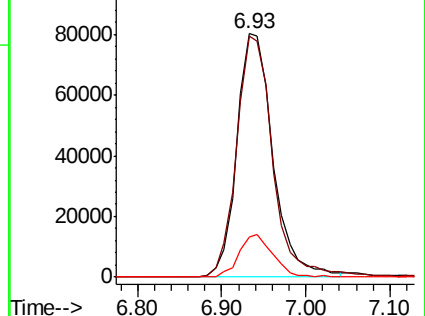
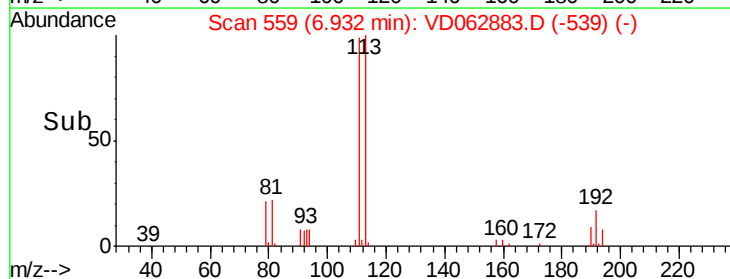
192 16.5 12.9 19.3

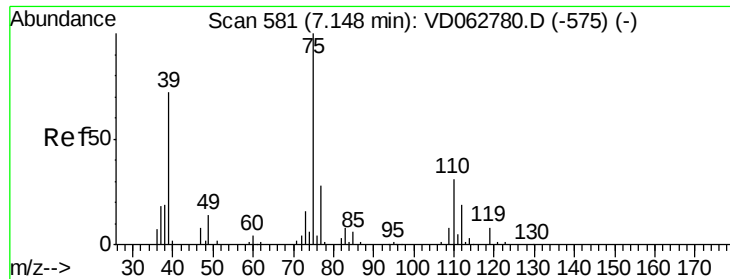


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

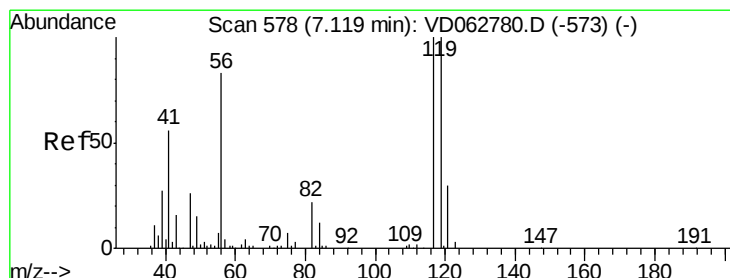
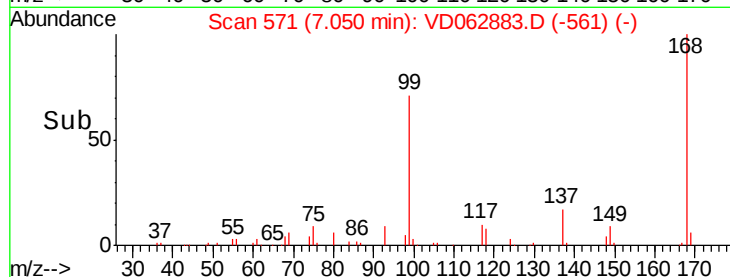
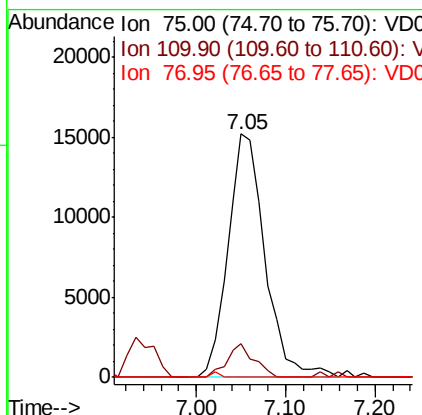
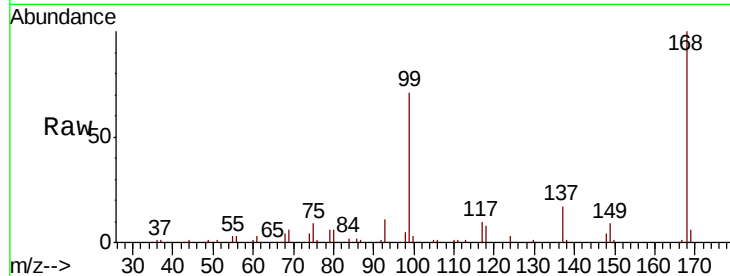




#36
 1,1-Dichloropropene
 Concen: 6.039 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.10 min
 Lab File: VD062883.D
 Acq: 25 Jun 2019 17:04

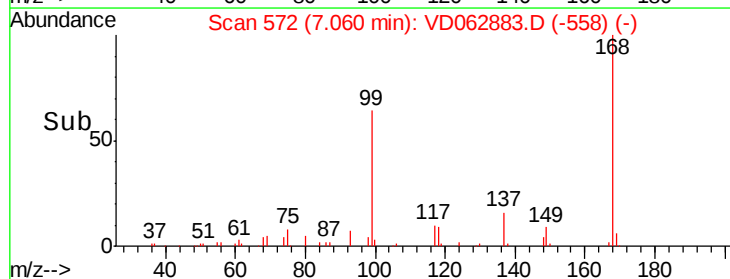
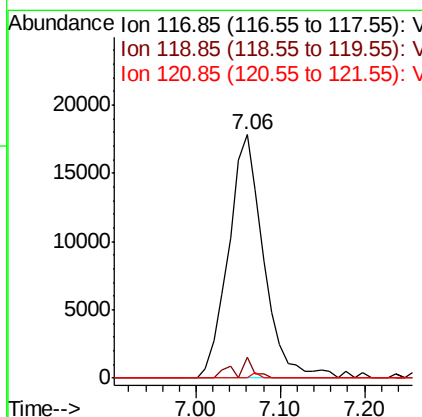
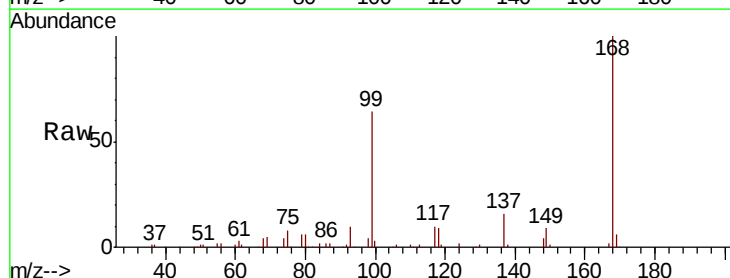
Instrument :
 MSVOA_D
 ClientSampleId :
 BAT-B05RE

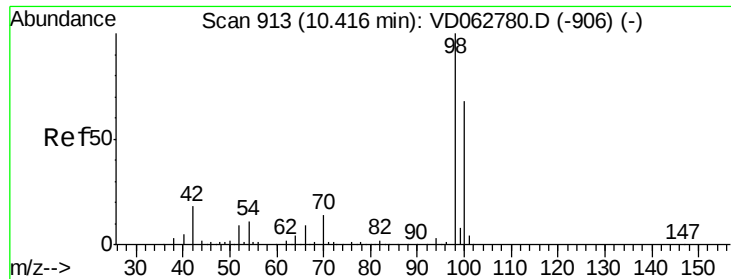
Tot Ion	Ratio	Lower	Upper
75	100		
110	13.9	15.0	45.1#
77	0.0	22.2	33.2#



#38
 Carbon Tetrachloride
 Concen: 4.731 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.06 min
 Lab File: VD062883.D
 Acq: 25 Jun 2019 17:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	8.8	75.4	113.2#
121	0.0	22.3	33.5#





#50

Toluene-d8

Concen: 33.516 ug/l

RT: 10.42 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD062883.D

Acq: 25 Jun 2019 17:04

Instrument :

MSVOA_D

ClientSampleId :

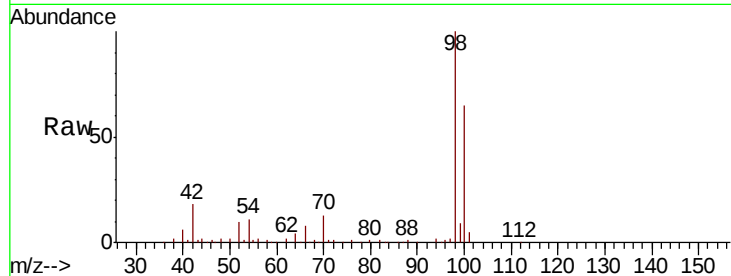
BAT-B05RE

Tot Ion: 98 Resp: 471905

Ion Ratio Lower Upper

98 100

100 64.9 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): VD062883.D (-893) (-)

Ion 100.05 (99.75 to 100.75): VD062883.D (-893) (-)

10.42

250000

200000

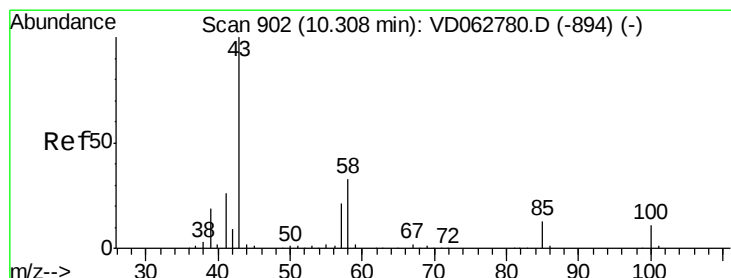
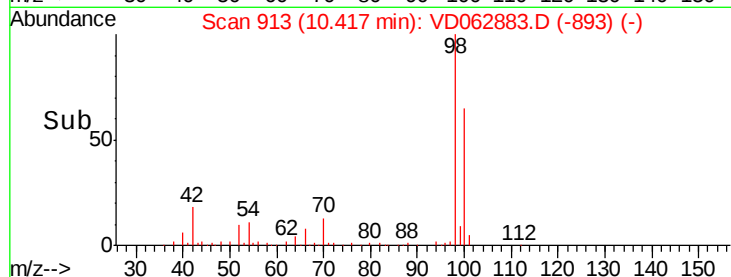
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.358 ug/l

RT: 10.31 min Scan# 902

Delta R.T. 0.00 min

Lab File: VD062883.D

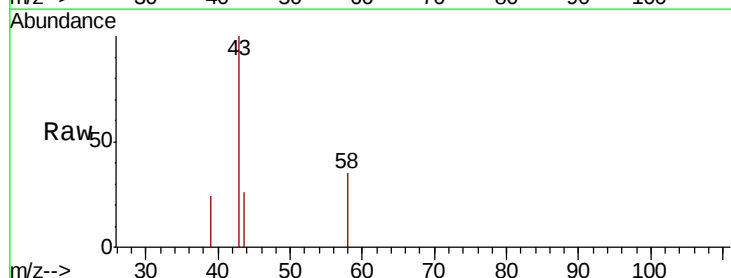
Acq: 25 Jun 2019 17:04

Tgt Ion: 43 Resp: 3665

Ion Ratio Lower Upper

43 100

58 28.0 26.6 40.0



Abundance Ion 42.95 (42.65 to 43.65): VD062883.D (-882) (-)

Ion 57.95 (57.65 to 58.65): VD062883.D (-882) (-)

10.31

2000

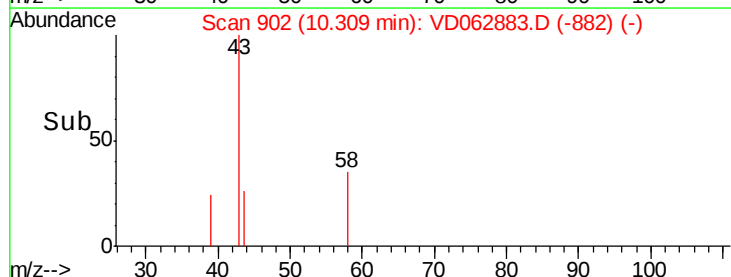
1500

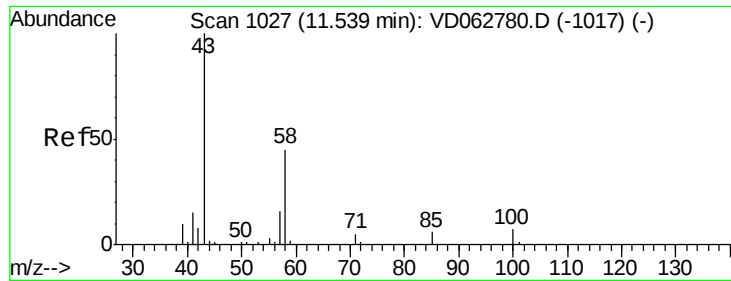
1000

500

0

Time-->

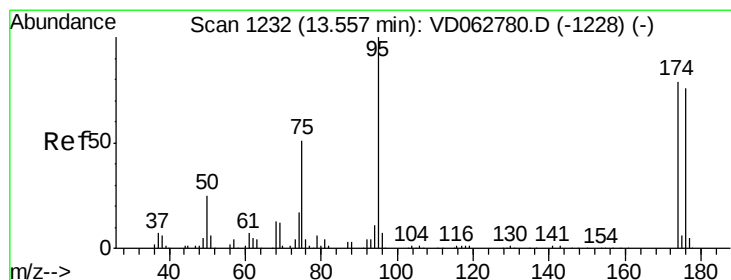
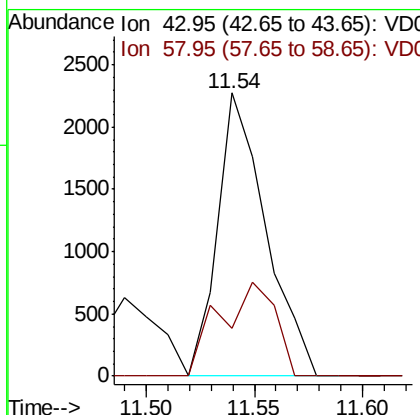
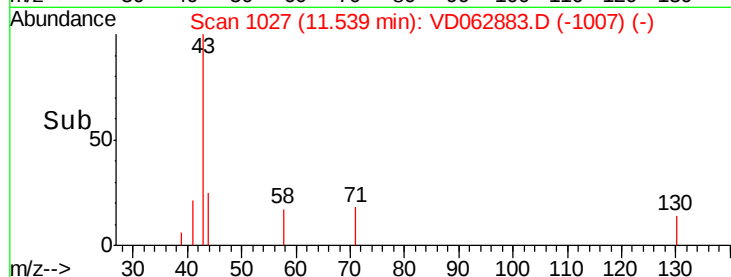
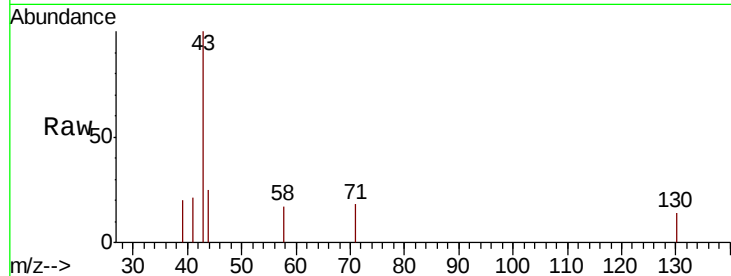




#59
2-Hexanone
Concen: 1.844 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. 0.00 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

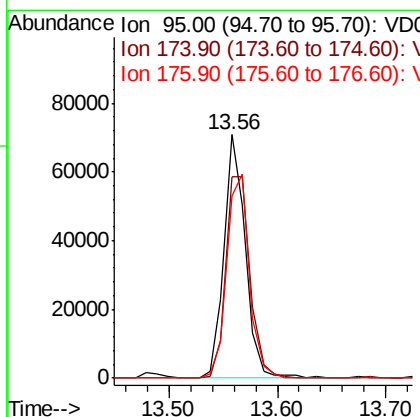
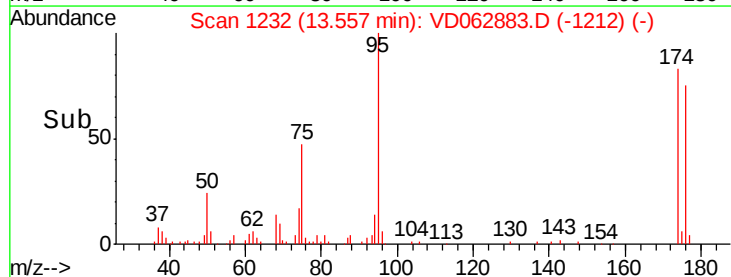
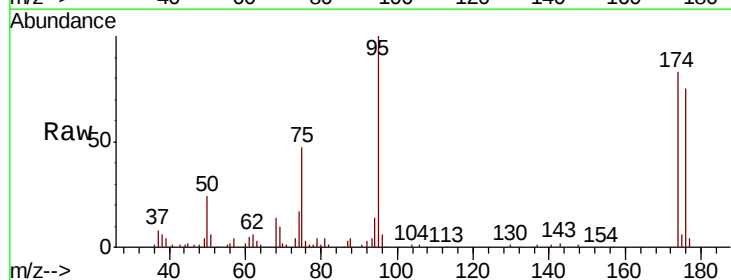
Instrument :
MSVOA_D
ClientSampleId :
BAT-B05RE

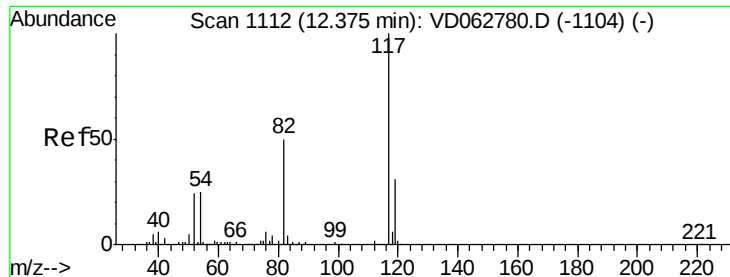
Tot Ion: 43 Resp: 3545
Ion Ratio Lower Upper
43 100
58 16.8 22.4 67.2#



#62
4-Bromofluorobenzene
Concen: 15.162 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

Tgt Ion: 95 Resp: 97069
Ion Ratio Lower Upper
95 100
174 82.8 0.0 158.0
176 74.8 0.0 151.6

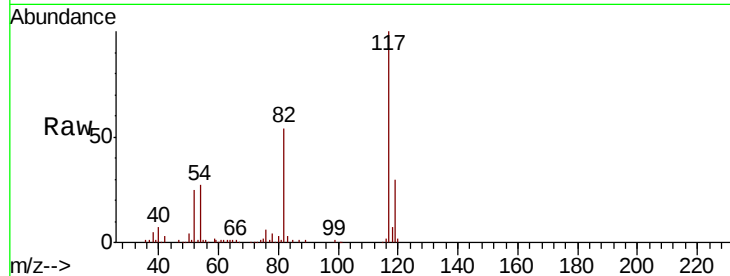




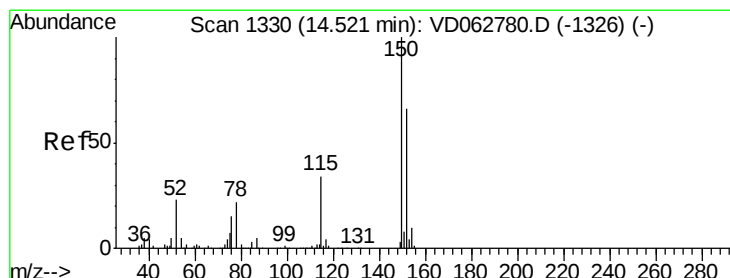
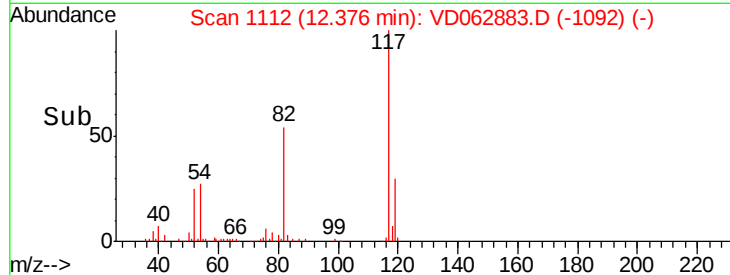
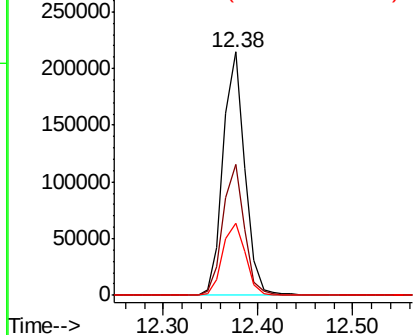
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

Instrument :
MSVOA_D
ClientSampleId :
BAT-B05RE

Tot Ion:117 Resp: 340690
Ion Ratio Lower Upper
117 100
82 54.0 40.4 60.6
119 29.8 25.2 37.8

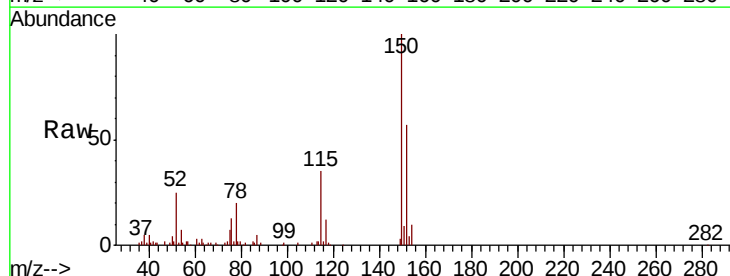


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

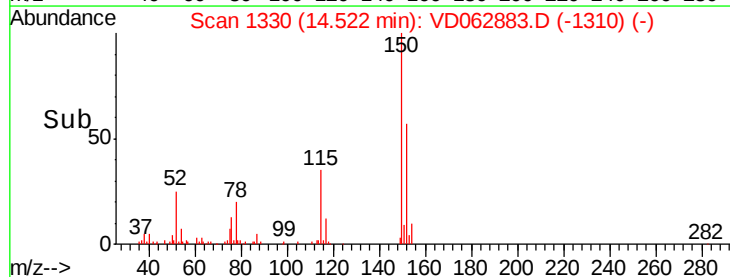
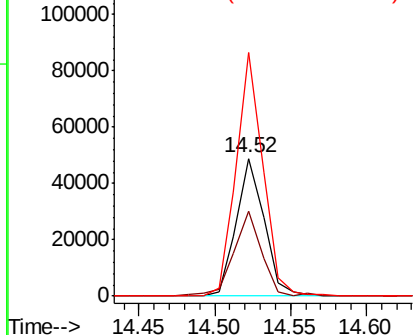


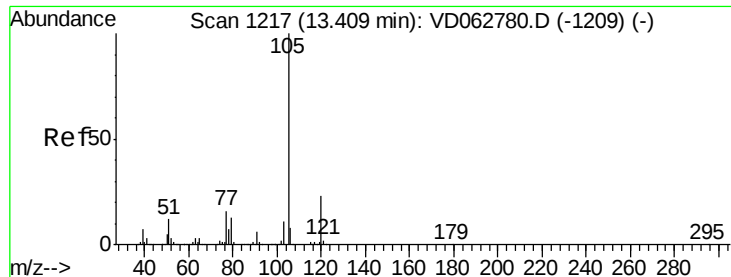
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

Tgt Ion:152 Resp: 62559
Ion Ratio Lower Upper
152 100
115 62.0 29.2 87.6
150 176.9 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: 2.336 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD062883.D

Acq: 25 Jun 2019 17:04

Instrument :

MSVOA_D

ClientSampleId :

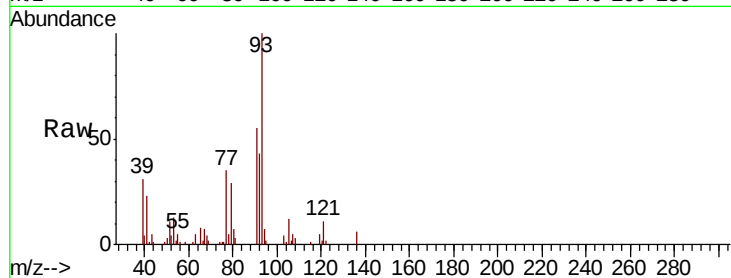
BAT-B05RE

Tot Ion:105 Resp: 9369

Ion Ratio Lower Upper

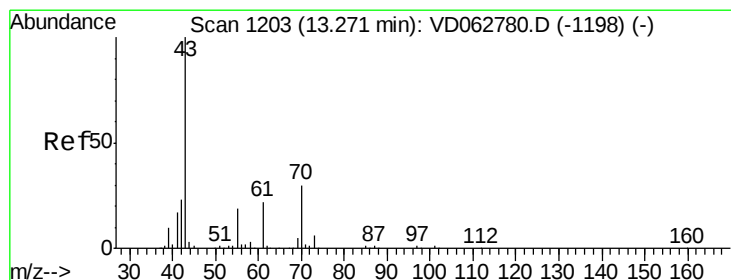
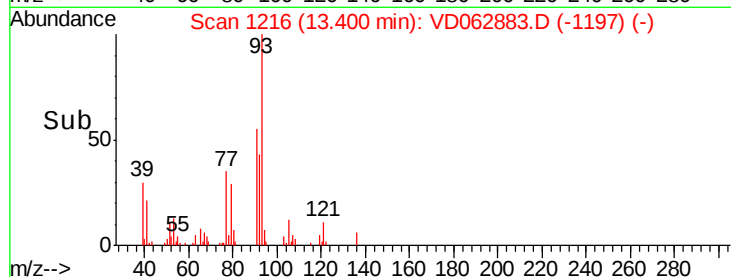
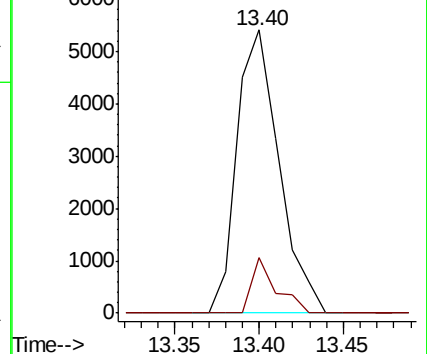
105 100

120 19.6 11.6 34.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 2.430 ug/l

RT: 13.31 min Scan# 1207

Delta R.T. 0.04 min

Lab File: VD062883.D

Acq: 25 Jun 2019 17:04

Tgt Ion: 43 Resp: 2367

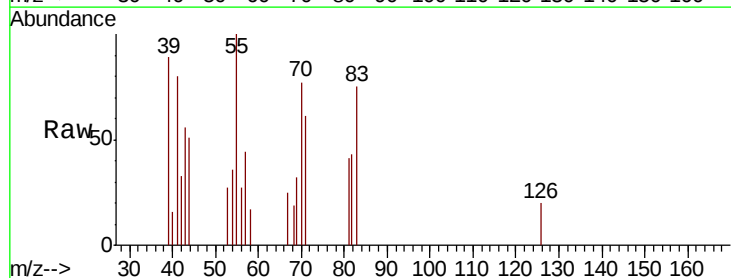
Ion Ratio Lower Upper

43 100

70 139.3 24.4 36.6#

55 180.1 15.2 22.8#

61 0.0 17.4 26.2#

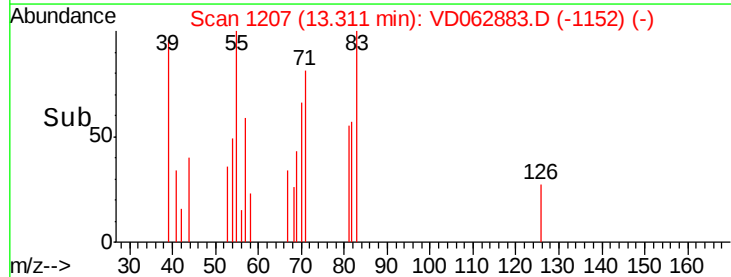
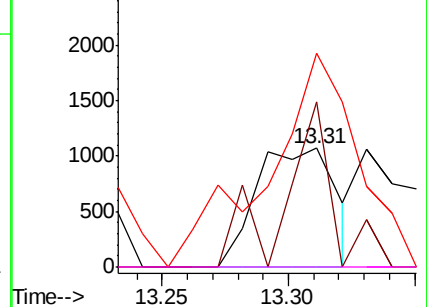


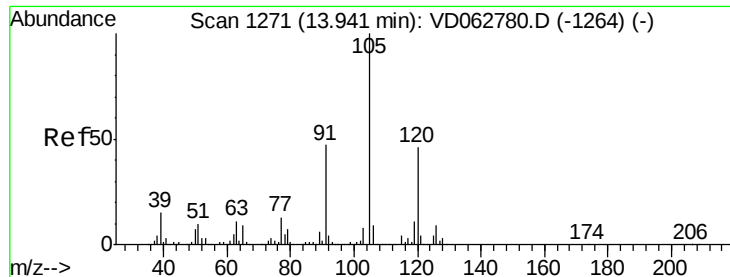
Abundance Ion 42.95 (42.65 to 43.65): VDC

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

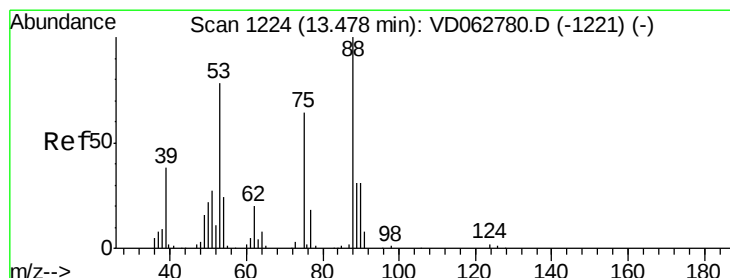
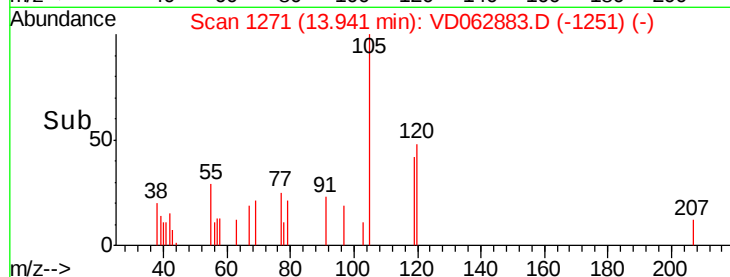
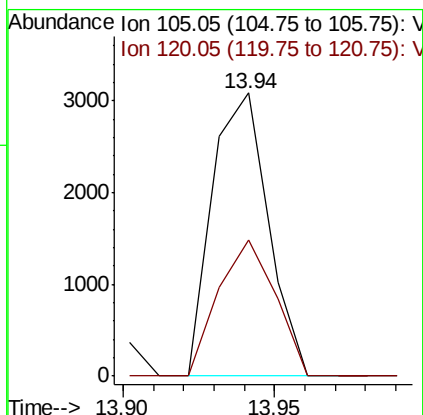
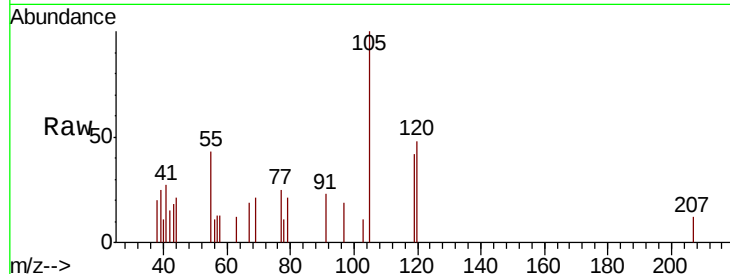




#80
 1,3,5-Trimethylbenzene
 Concen: 1.181 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VD062883.D
 Acq: 25 Jun 2019 17:04

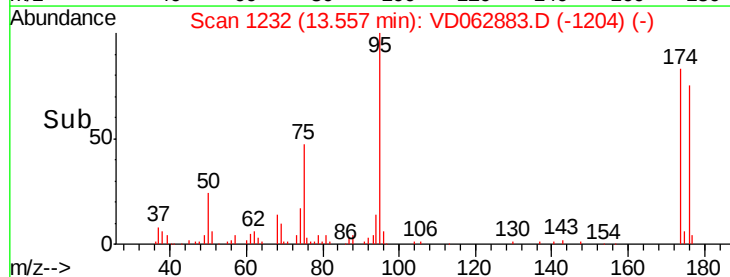
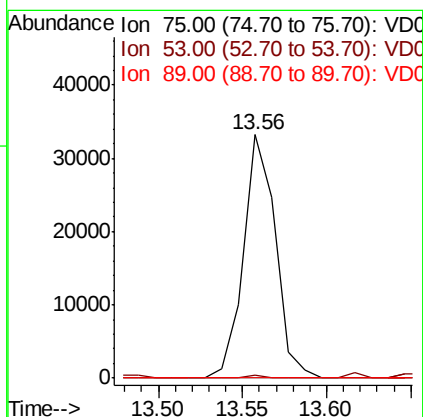
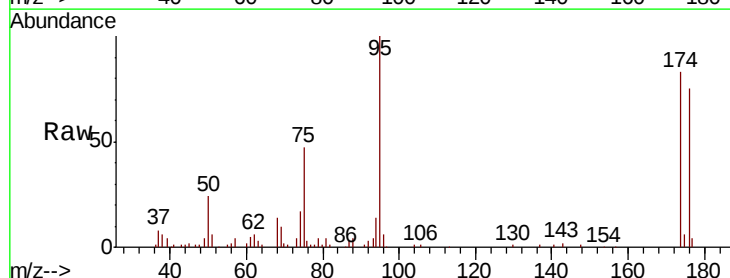
Instrument :
 MSVOA_D
 ClientSampleId :
 BAT-B05RE

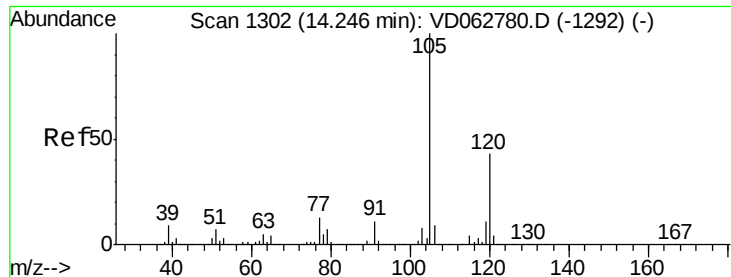
Tot Ion:105 Resp: 3978
 Ion Ratio Lower Upper
 105 100
 120 48.1 23.1 69.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 230.551 ug/l
 RT: 13.56 min Scan# 1232
 Delta R.T. 0.08 min
 Lab File: VD062883.D
 Acq: 25 Jun 2019 17:04

Tgt Ion: 75 Resp: 43638
 Ion Ratio Lower Upper
 75 100
 53 1.0 97.8 146.8#
 89 0.0 39.4 59.2#

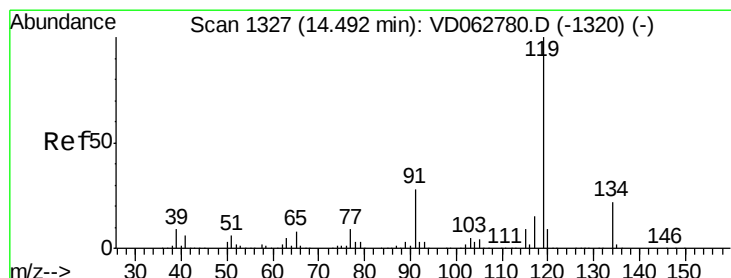
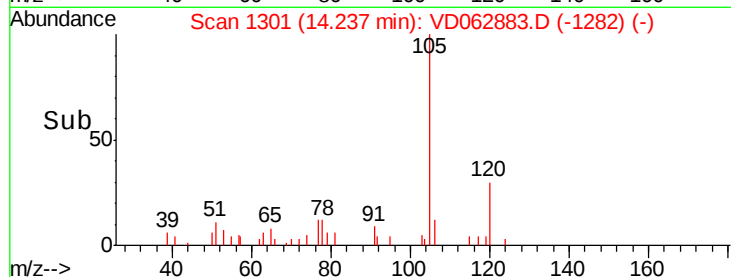
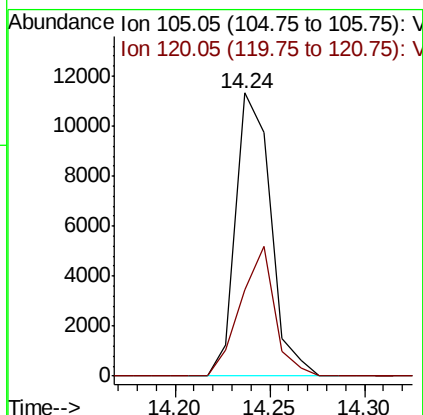
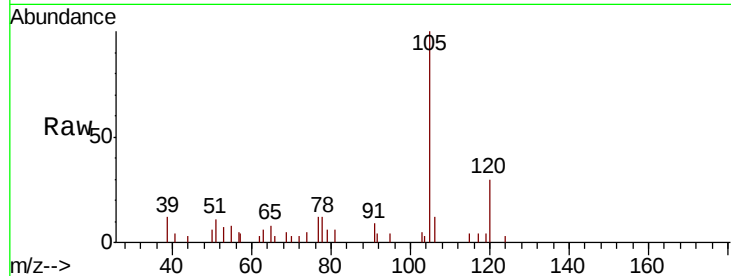




#84
1,2,4-Trimethylbenzene
Concen: 4.191 ug/l
RT: 14.24 min Scan# 1301
Delta R.T. -0.01 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

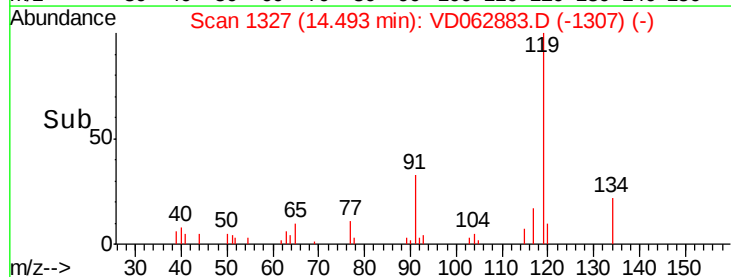
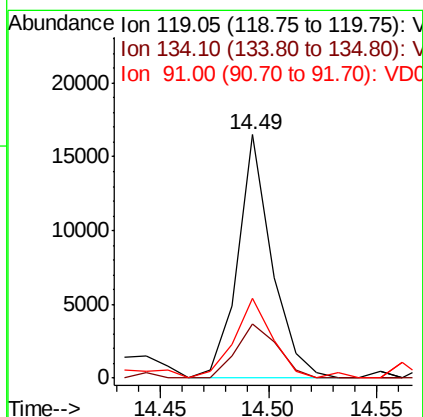
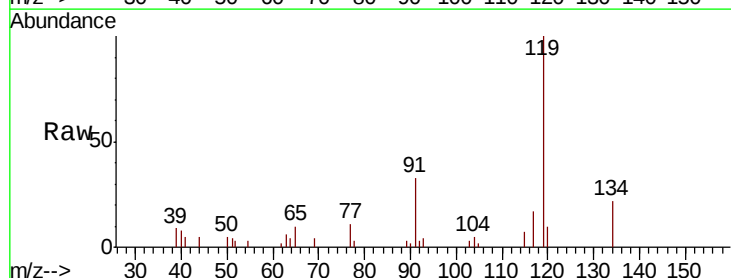
Instrument :
MSVOA_D
ClientSampleId :
BAT-B05RE

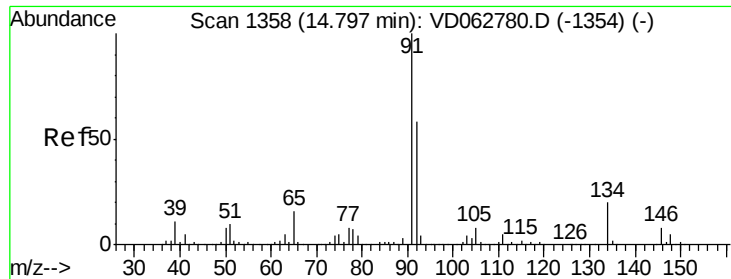
Tot Ion:105 Resp: 14474
Ion Ratio Lower Upper
105 100
120 30.3 21.3 63.9



#86
p-Isopropyltoluene
Concen: 4.859 ug/l
RT: 14.49 min Scan# 1327
Delta R.T. 0.00 min
Lab File: VD062883.D
Acq: 25 Jun 2019 17:04

Tgt Ion:119 Resp: 18146
Ion Ratio Lower Upper
119 100
134 22.3 11.1 33.1
91 32.8 14.0 41.9





#89

n-Butylbenzene

Concen: 1.146 ug/l

RT: 14.81 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD062883.D

Acq: 25 Jun 2019 17:04

Instrument :

MSVOA_D

ClientSampleId :

BAT-B05RE

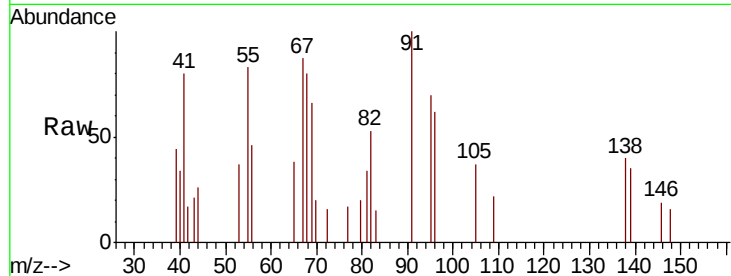
Tot Ion: 91 Resp: 4004

Ion Ratio Lower Upper

91 100

92 0.0 28.9 86.7#

134 0.0 10.1 30.3#

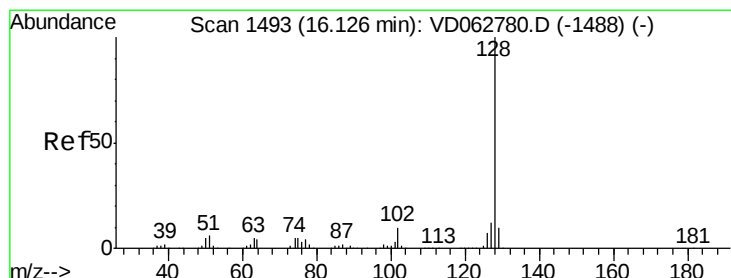
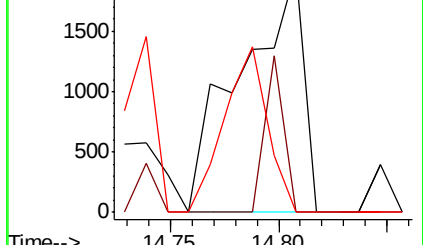
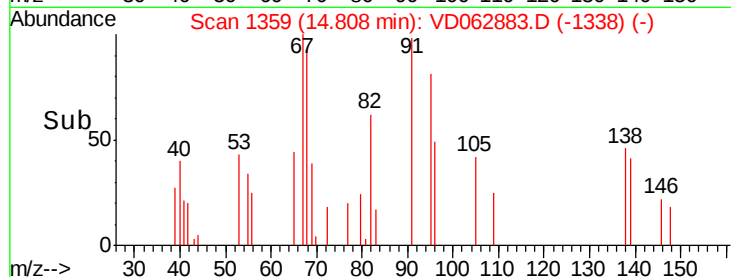


Abundance Ion 91.00 (90.70 to 91.70): VD062780.D (-1354) (-)

Ion 92.00 (91.70 to 92.70): VD062780.D (-1354) (-)

Ion 134.10 (133.80 to 134.80): VD062780.D (-1354) (-)

Time-->



#95

Naphthalene

Concen: 85.714 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD062883.D

Acq: 25 Jun 2019 17:04

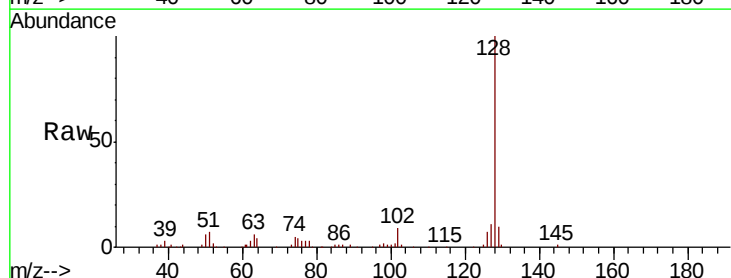
Tgt Ion: 128 Resp: 155285

Ion Ratio Lower Upper

128 100

127 11.4 9.7 14.5

129 10.3 8.3 12.5



Abundance Ion 128.00 (127.70 to 128.70): VD062780.D (-1488) (-)

Ion 127.00 (126.70 to 127.70): VD062780.D (-1488) (-)

Ion 129.00 (128.70 to 129.70): VD062780.D (-1488) (-)

Time-->

