

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052019\
 Data File : VD062465.D
 Acq On : 20 May 2019 19:31
 Operator : FY/SY
 Sample : K2894-17
 Misc : 4.95µ/5mL/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

Quant Time: May 21 03:40:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	520371	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.23	114	785498	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	529631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	171310	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	240760	43.22	ug/l	0.00
Spiked Amount			Recovery	=	86.44%	
35) Dibromofluoromethane	6.93	113	286009	40.36	ug/l	-0.01
Spiked Amount			Recovery	=	80.72%	
50) Toluene-d8	10.43	98	470527	30.34	ug/l	0.00
Spiked Amount			Recovery	=	60.68%	
62) 4-Bromofluorobenzene	13.57	95	215746	31.80	ug/l	0.00
Spiked Amount			Recovery	=	63.60%	

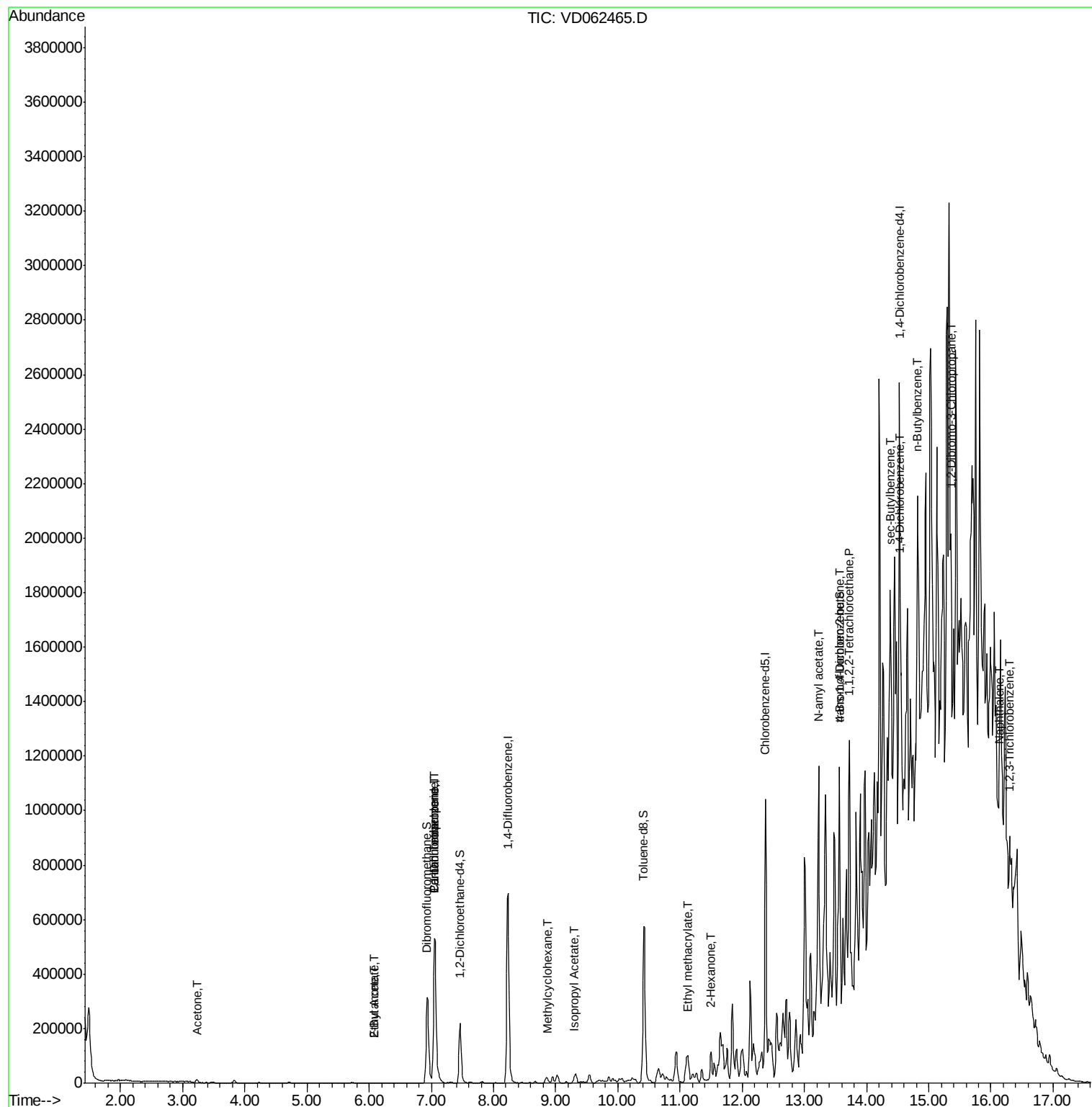
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	269	Below Cal	#	42
16) Acetone	3.22	43	24952	24.998	ug/l #	86
20) Methylene Chloride	3.83	84	5882	Below Cal		90
25) 2-Butanone	6.09	43	4523	4.332	ug/l #	56
36) 1,1-Dichloropropene	7.05	75	41918	5.582	ug/l #	48
37) Ethyl Acetate	6.09	43	4523	1.550	ug/l #	64
38) Carbon Tetrachloride	7.06	117	53694	4.811	ug/l #	15
39) Methylcyclohexane	8.87	83	8343	1.347	ug/l #	86
43) Isopropyl Acetate	9.29	43	7732	1.998	ug/l #	43
56) Ethyl methacrylate	11.10	69	12820	3.509	ug/l #	1
59) 2-Hexanone	11.50	43	54442	29.298	ug/l #	31
74) N-amyl acetate	13.23	43	136752	51.276	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	13.72	83	53672	27.551	ug/l #	47
81) trans-1,4-Dichloro-2-buten	13.57	75	72108	126.709	ug/l #	34
85) sec-Butylbenzene	14.37	105	48549	4.489	ug/l	96
88) 1,4-Dichlorobenzene	14.55	146	8263	1.583	ug/l #	1
89) n-Butylbenzene	14.81	91	39516	4.178	ug/l #	63
92) 1,2-Dibromo-3-Chloropropan	15.36	75	2950	7.978	ug/l #	7
95) Naphthalene	16.12	128	8448	1.707	ug/l #	8
96) 1,2,3-Trichlorobenzene	16.30	180	3440	1.159	ug/l #	1

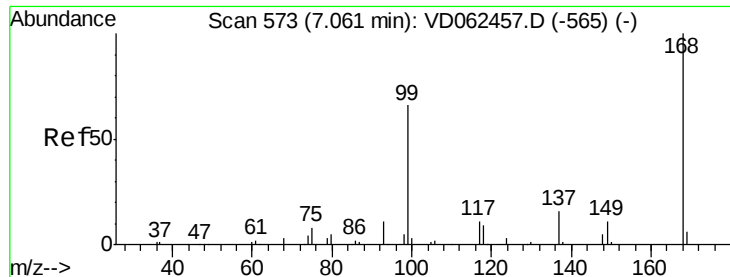
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052019\
Data File : VD062465.D
Acq On : 20 May 2019 19:31
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Sample : K2894-17
Misc : 4.95g/5mL/MSVOA D/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampled :
BFB

Quant Time: May 21 03:40:45 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.01 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampleId :

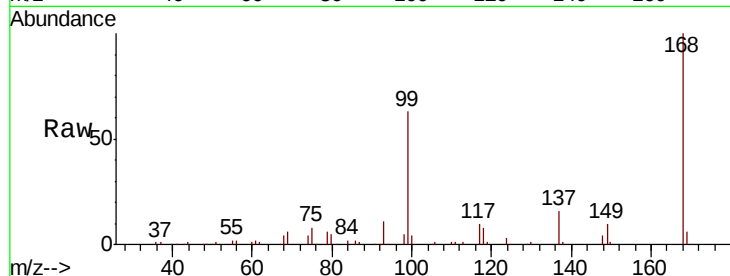
BFB

Tot Ion:168 Resp: 520371

Ion Ratio Lower Upper

168 100

99 62.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

150000

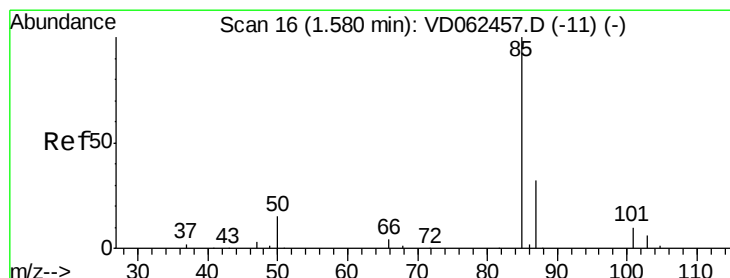
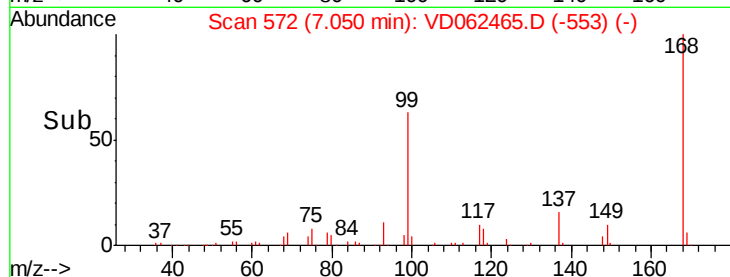
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD062465.D

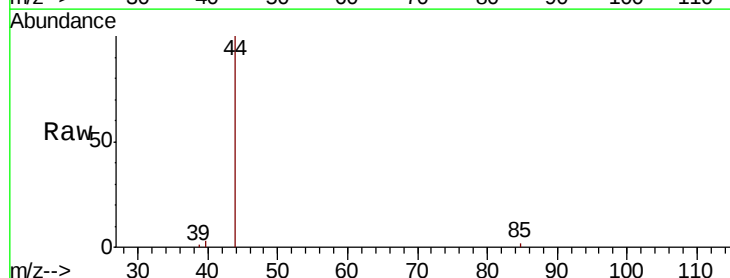
Acq: 20 May 2019 19:31

Tgt Ion: 85 Resp: 269

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.6#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

500

400

300

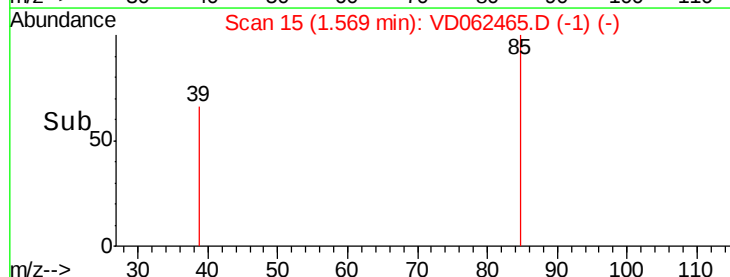
200

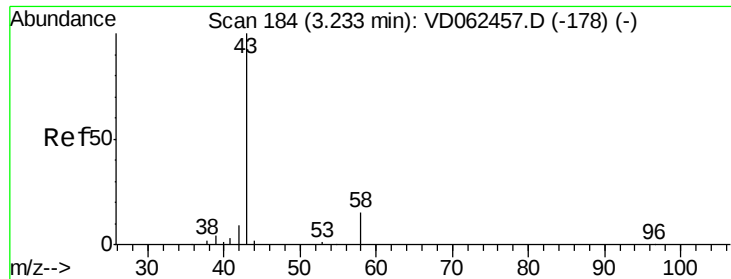
100

0

1.54 1.56 1.58 1.60

Time-->





#16

Acetone

Concen: 24.998 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampleId :

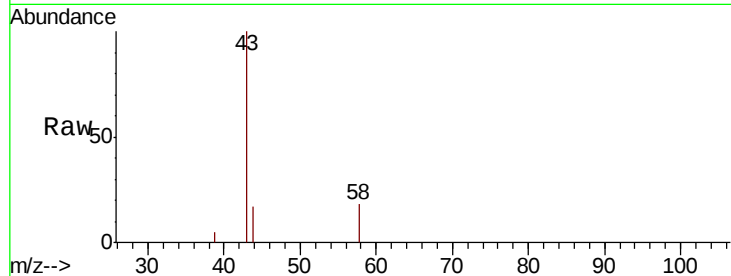
BFB

Tot Ion: 43 Resp: 24952

Ion Ratio Lower Upper

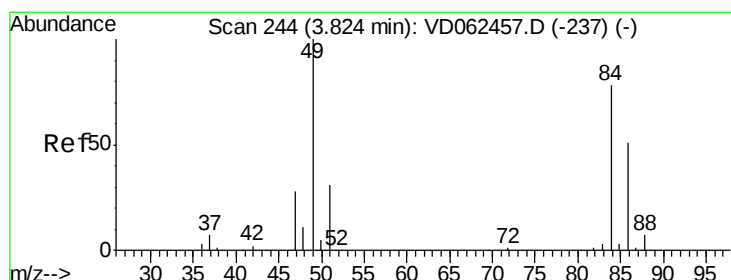
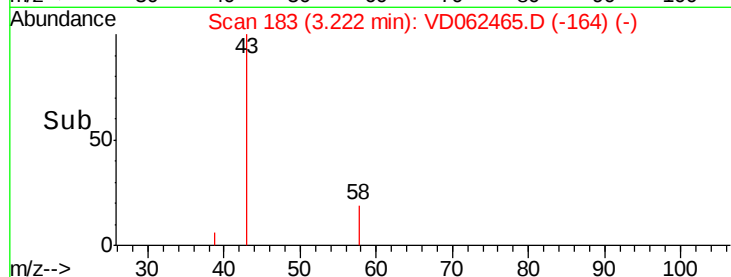
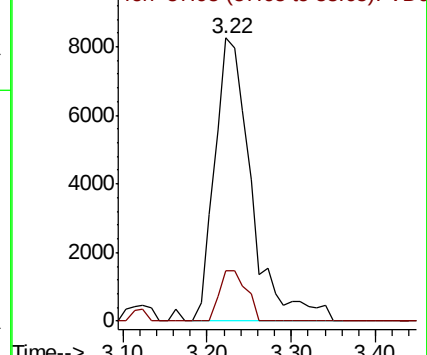
43 100

58 17.8 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 3.83 min Scan# 245

Delta R.T. 0.01 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Tgt Ion: 84 Resp: 5882

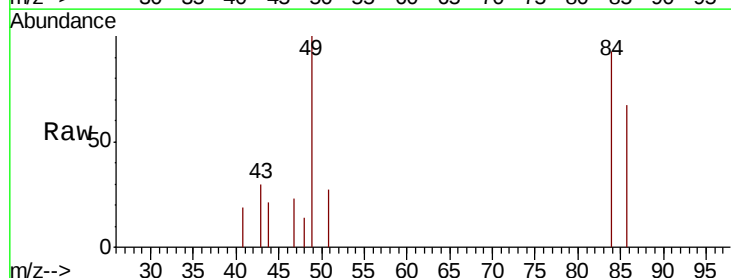
Ion Ratio Lower Upper

84 100

49 108.0 94.0 141.0

51 29.4 29.0 43.4

86 72.4 49.8 74.6

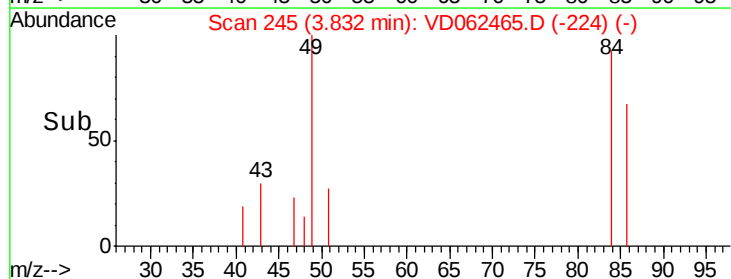
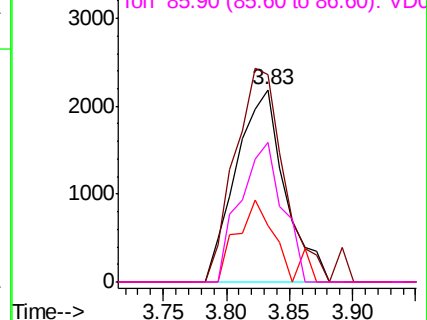


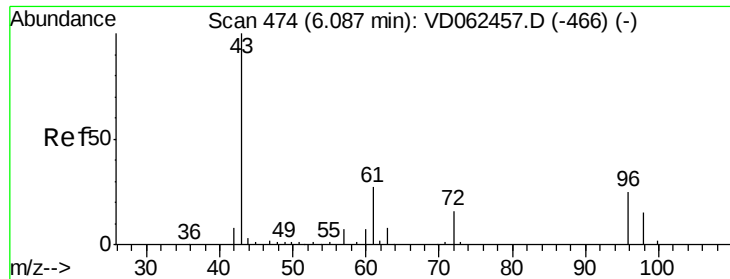
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#25

2-Butanone

Concen: 4.332 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.00 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampleId :

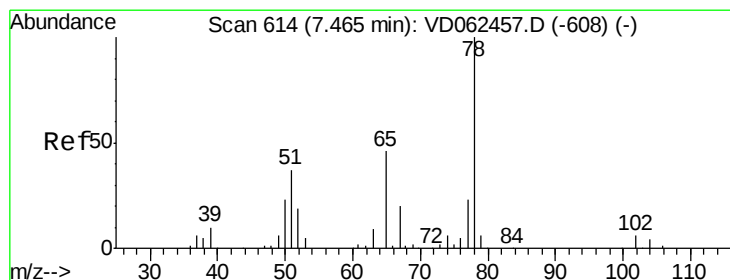
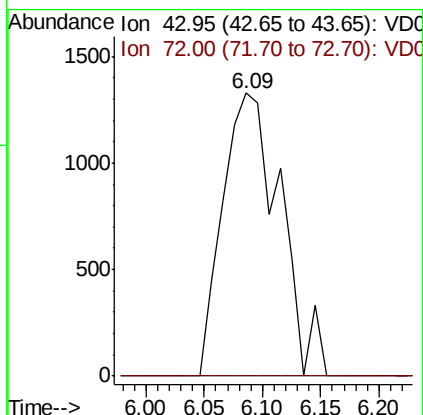
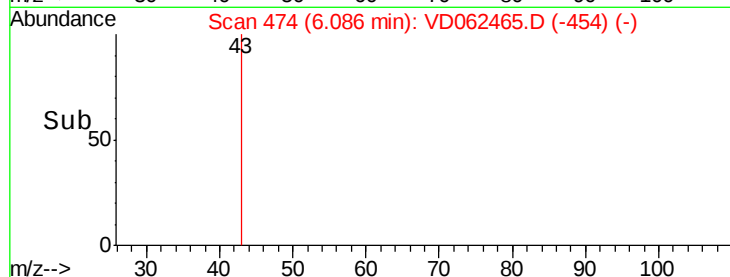
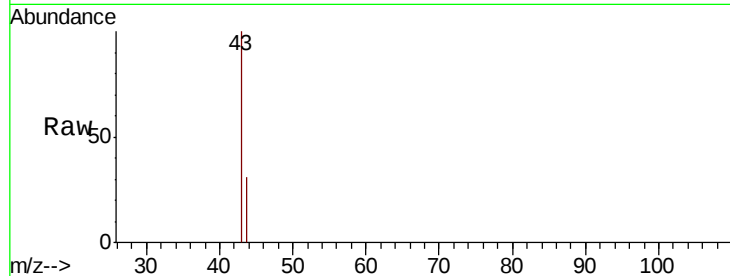
BFB

Tot Ion: 43 Resp: 4523

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#



#33

1,2-Dichloroethane-d4

Concen: 43.223 ug/l

RT: 7.46 min Scan# 614

Delta R.T. -0.00 min

Lab File: VD062465.D

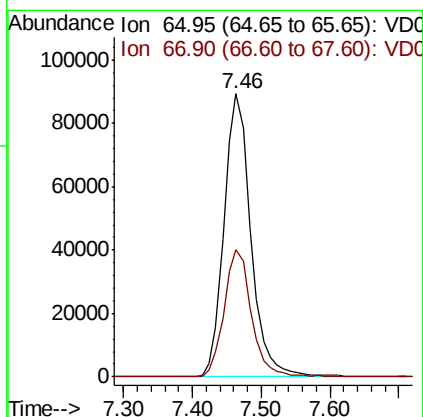
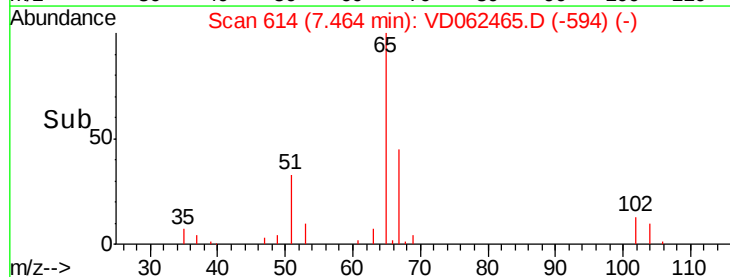
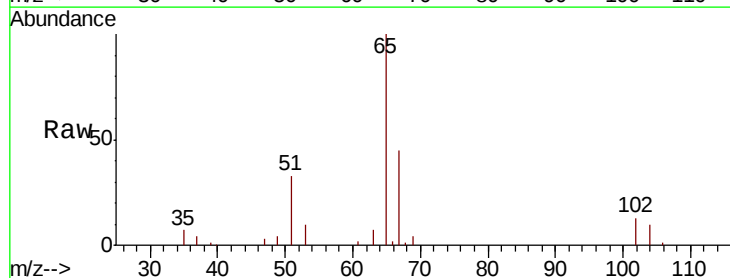
Acq: 20 May 2019 19:31

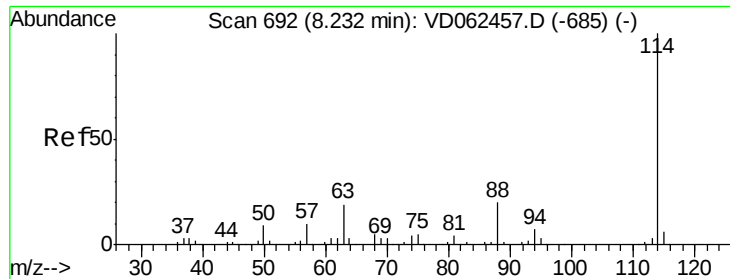
Tgt Ion: 65 Resp: 240760

Ion Ratio Lower Upper

65 100

67 44.8 0.0 98.0

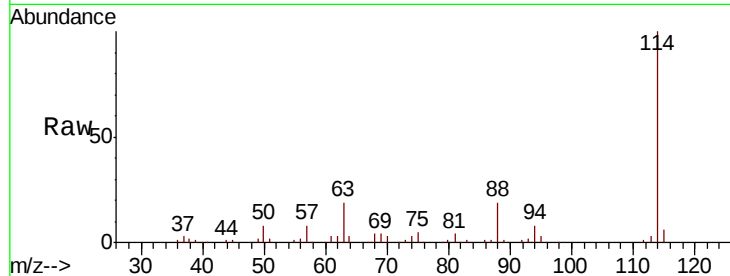




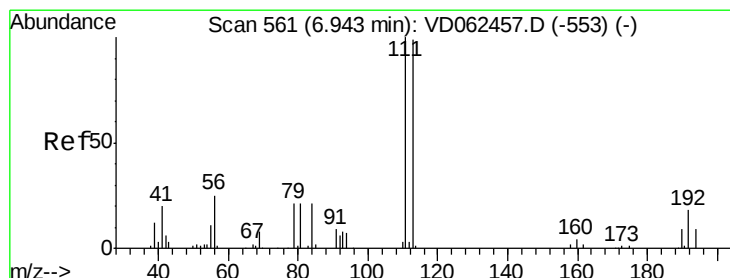
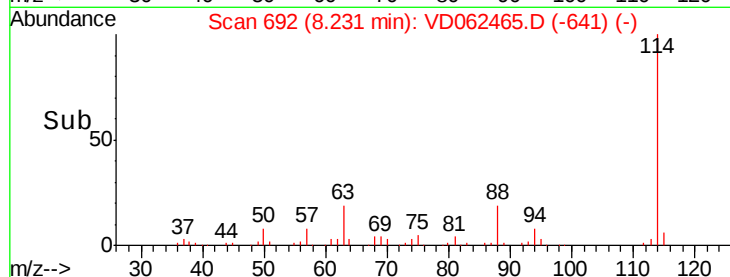
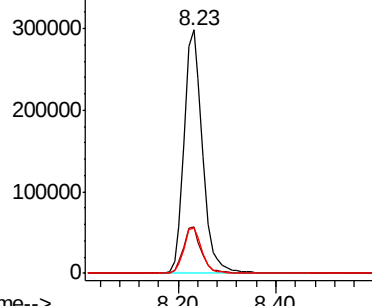
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VD062465.D
 Acq: 20 May 2019 19:31

Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

Tot Ion:114 Resp: 785498
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 32.4
 88 18.5 0.0 33.6

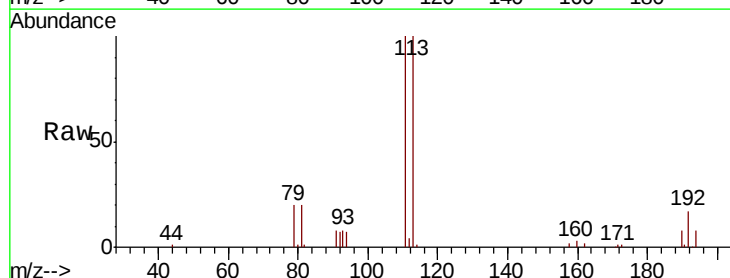


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

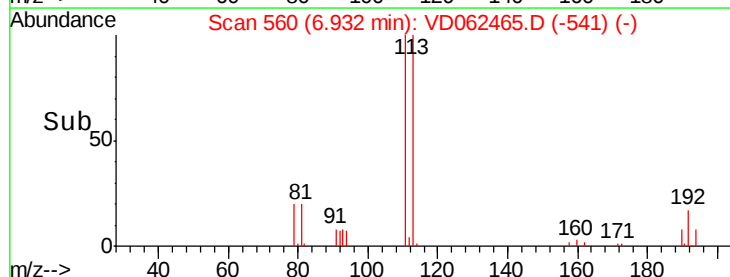
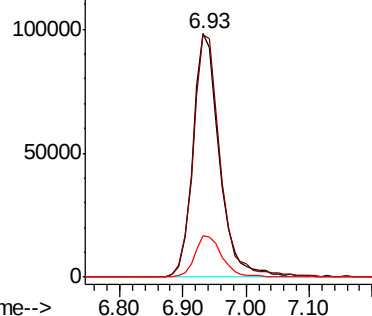


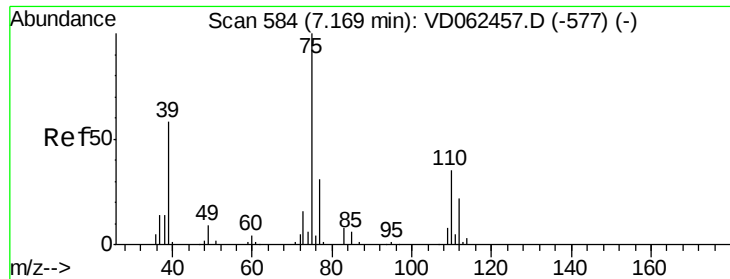
#35
 Dibromofluoromethane
 Concen: 40.362 ug/l
 RT: 6.93 min Scan# 560
 Delta R.T. -0.01 min
 Lab File: VD062465.D
 Acq: 20 May 2019 19:31

Tgt Ion:113 Resp: 286009
 Ion Ratio Lower Upper
 113 100
 111 99.7 78.5 117.7
 192 17.1 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





#36

1,1-Dichloropropene

Concen: 5.582 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.12 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampleId :

BFB

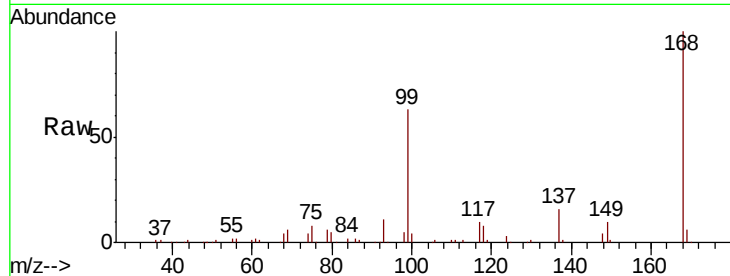
Tot Ion: 75 Resp: 41918

Ion Ratio Lower Upper

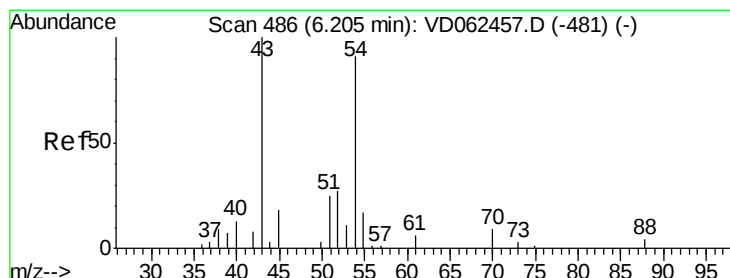
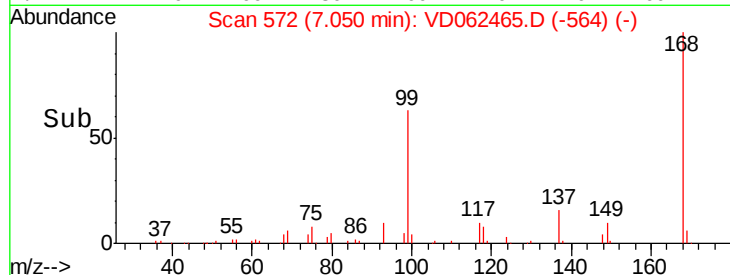
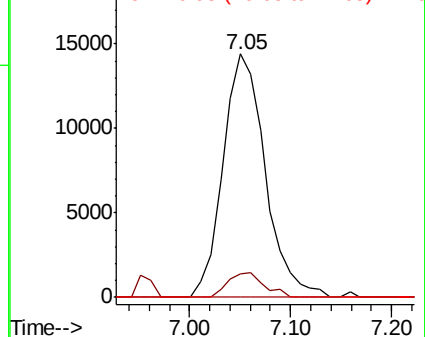
75 100

110 9.8 19.1 57.1#

77 0.0 25.6 38.4#



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



#37

Ethyl Acetate

Concen: 1.550 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.12 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

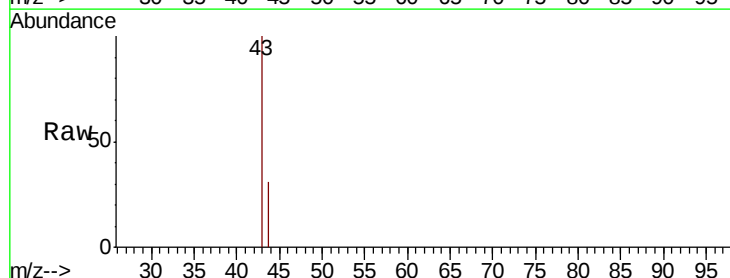
Tgt Ion: 43 Resp: 4523

Ion Ratio Lower Upper

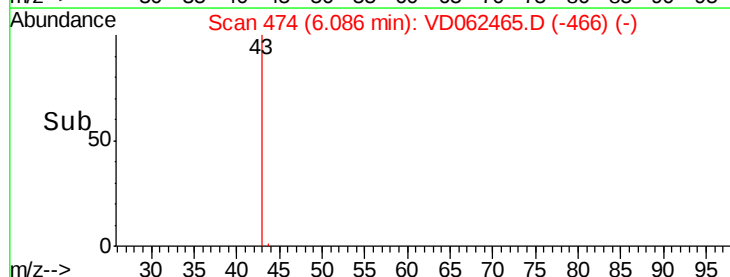
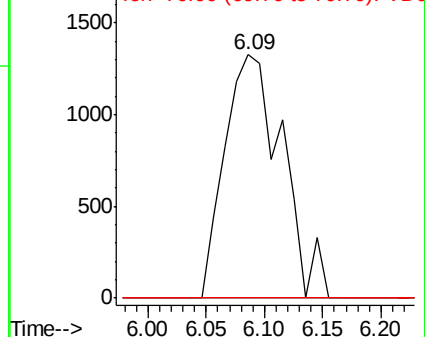
43 100

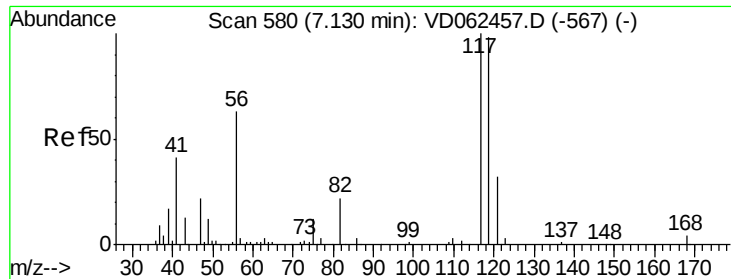
61 0.0 14.7 22.1#

70 0.0 7.8 11.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

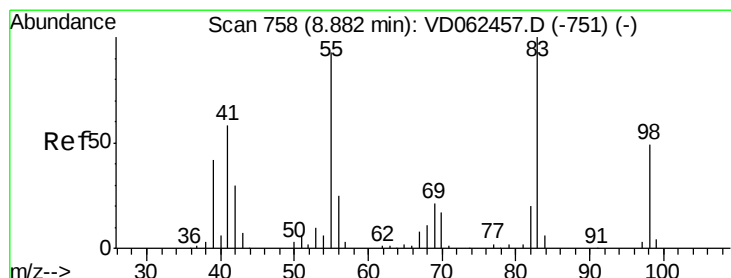
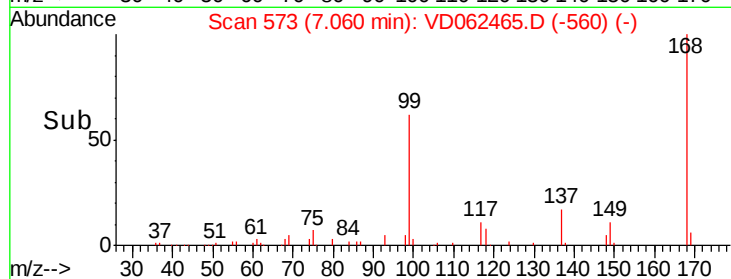
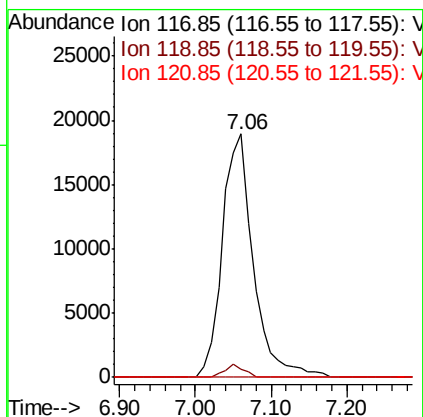
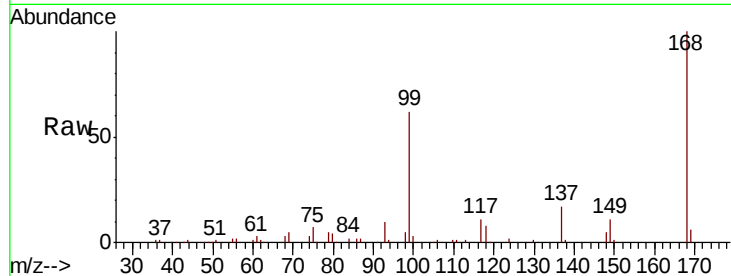




#38
Carbon Tetrachloride
Concen: 4.811 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.07 min
Lab File: VD062465.D
Acq: 20 May 2019 19:31

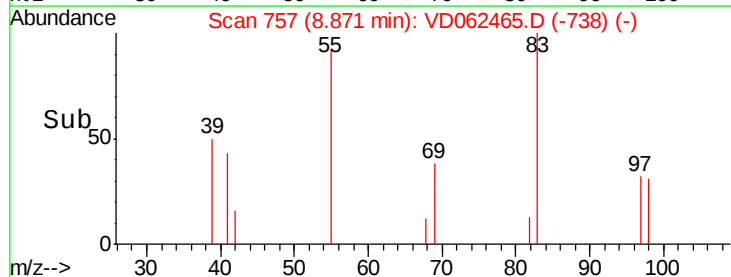
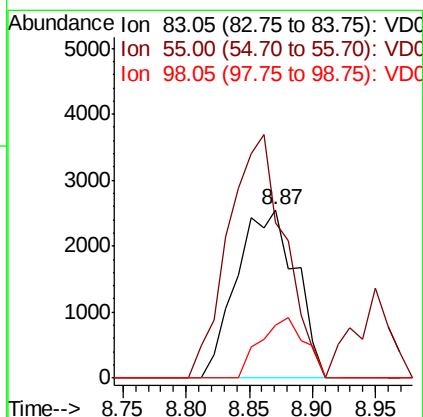
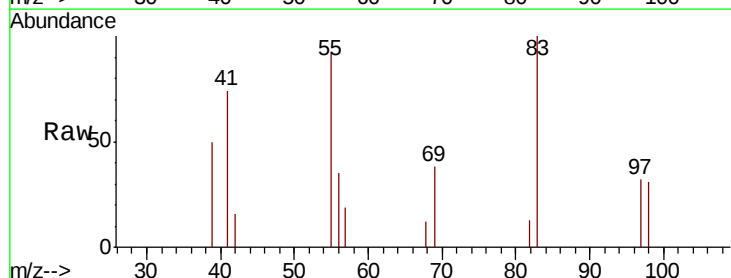
Instrument :
MSVOA_D
ClientSampled :
BFB

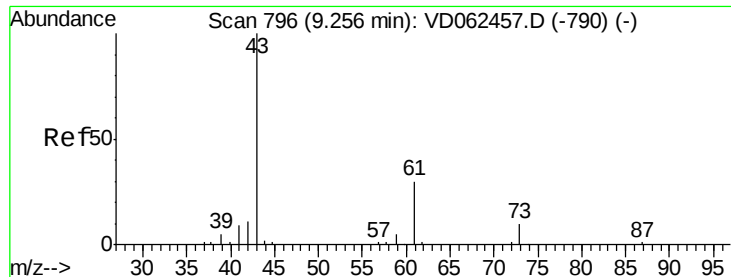
Tot Ion:117 Resp: 53694
Ion Ratio Lower Upper
117 100
119 3.5 75.8 113.8#
121 0.0 25.9 38.9#



#39
Methylcyclohexane
Concen: 1.347 ug/l
RT: 8.87 min Scan# 757
Delta R.T. -0.01 min
Lab File: VD062465.D
Acq: 20 May 2019 19:31

Tgt Ion: 83 Resp: 8343
Ion Ratio Lower Upper
83 100
55 92.2 68.2 102.4
98 31.3 38.2 57.4#





#43

Isopropyl Acetate

Concen: 1.998 ug/l

RT: 9.29 min Scan# 800

Delta R.T. 0.04 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampleId :

BFB

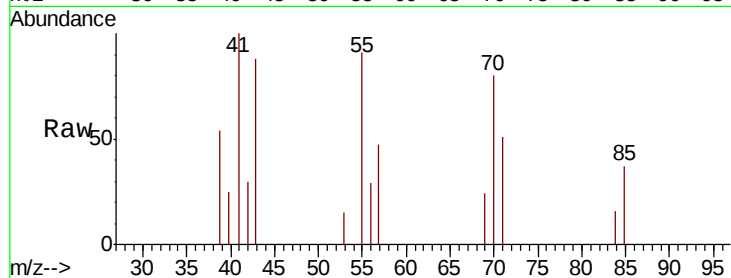
Tot Ion: 43 Resp: 7732

Ion Ratio Lower Upper

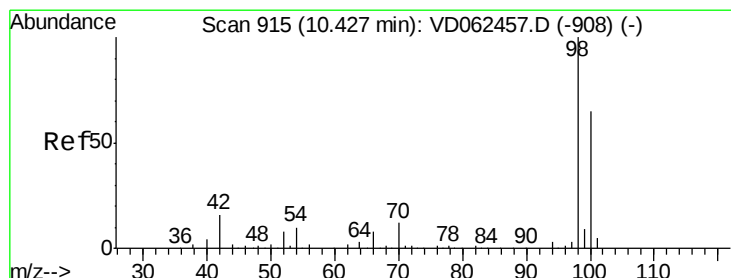
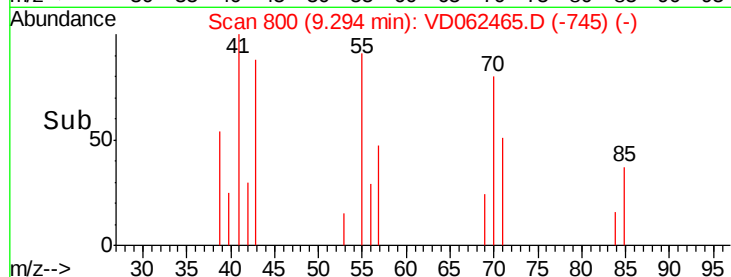
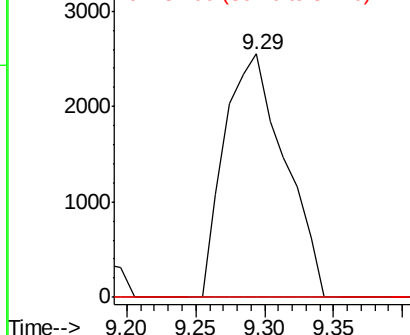
43 100

61 0.0 25.1 37.7#

87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: 30.342 ug/l

RT: 10.43 min Scan# 915

Delta R.T. -0.00 min

Lab File: VD062465.D

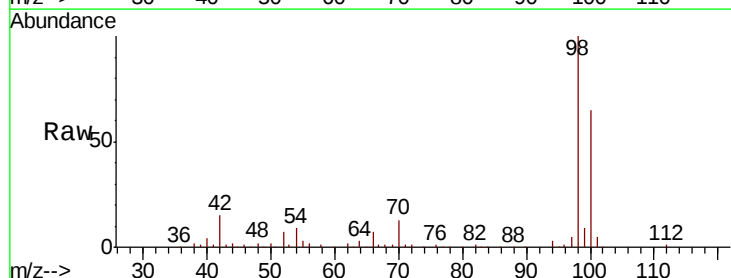
Acq: 20 May 2019 19:31

Tgt Ion: 98 Resp: 470527

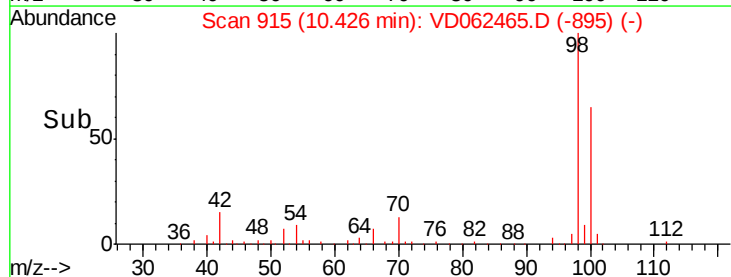
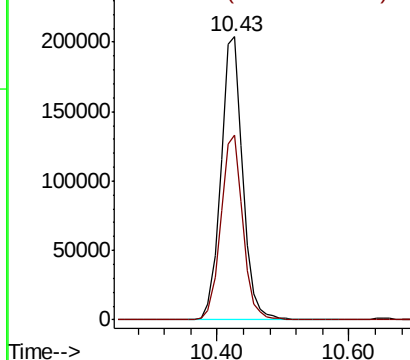
Ion Ratio Lower Upper

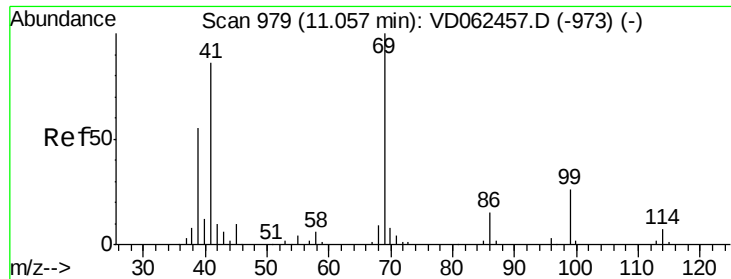
98 100

100 65.3 53.8 80.8



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

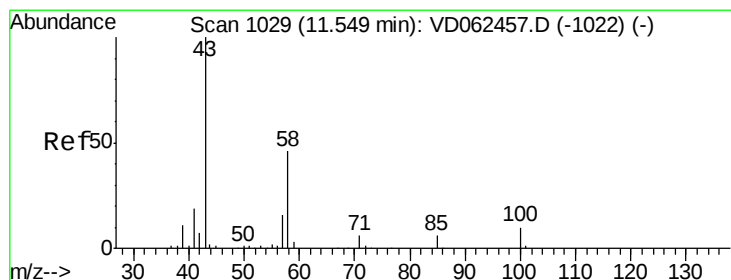
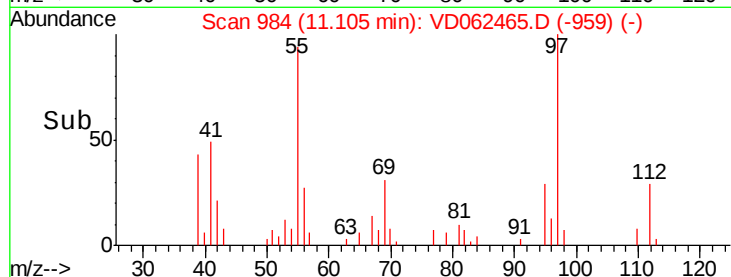
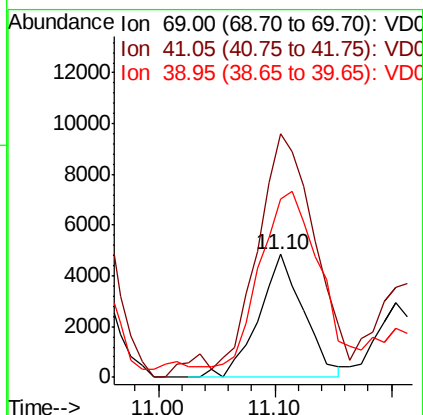
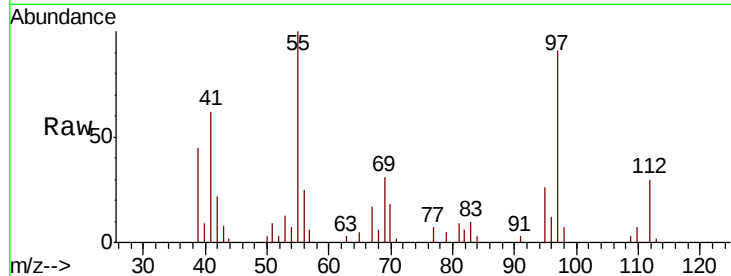




#56
Ethyl methacrylate
Concen: 3.509 ug/l
RT: 11.10 min Scan# 984
Delta R.T. 0.05 min
Lab File: VD062465.D
Acq: 20 May 2019 19:31

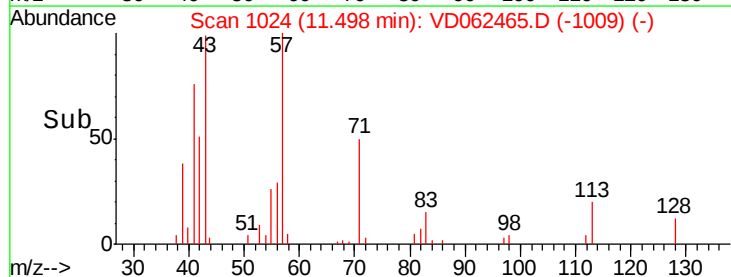
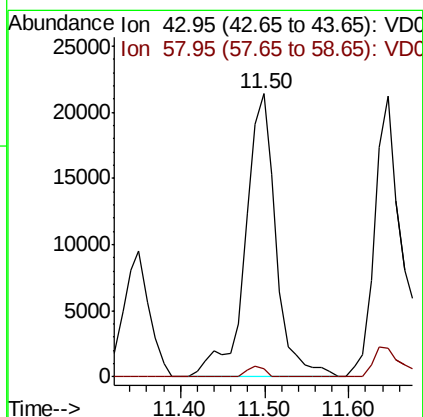
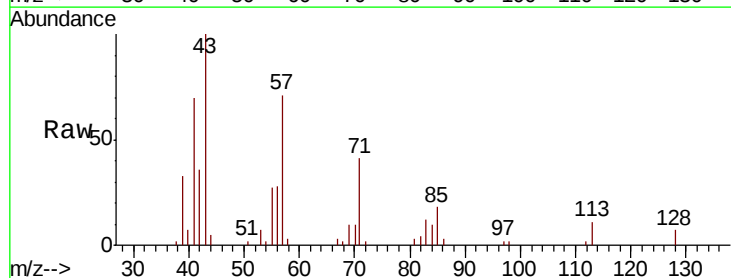
Instrument :
MSVOA_D
ClientSampleID :
BFB

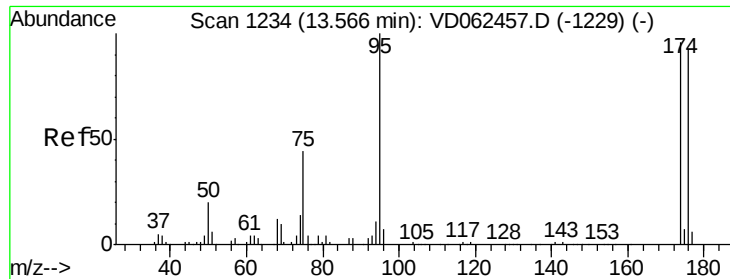
Tot Ion: 69 Resp: 12820
Ion Ratio Lower Upper
69 100
41 197.6 56.3 84.5#
39 145.1 29.4 44.2#



#59
2-Hexanone
Concen: 29.298 ug/l
RT: 11.50 min Scan# 1024
Delta R.T. -0.05 min
Lab File: VD062465.D
Acq: 20 May 2019 19:31

Tgt Ion: 43 Resp: 54442
Ion Ratio Lower Upper
43 100
58 2.8 25.4 76.4#





#62

4-Bromofluorobenzene

Concen: 31.805 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.00 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampleId :

BFB

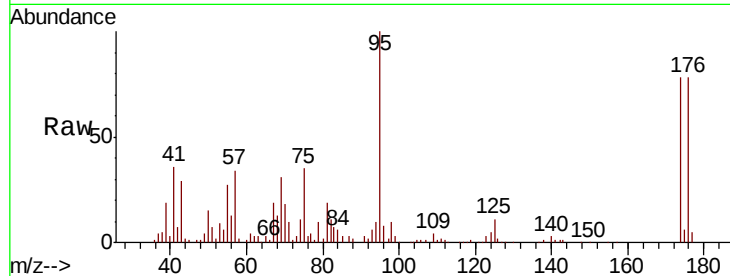
Tot Ion: 95 Resp: 215746

Ion Ratio Lower Upper

95 100

174 78.3 0.0 181.8

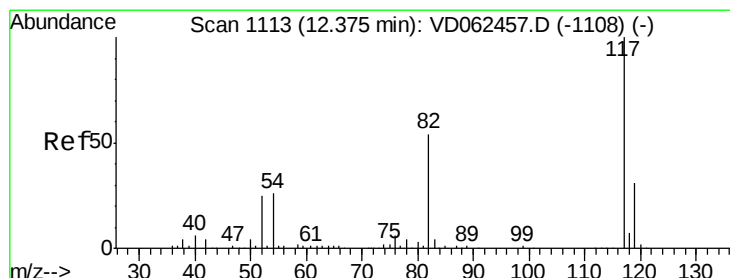
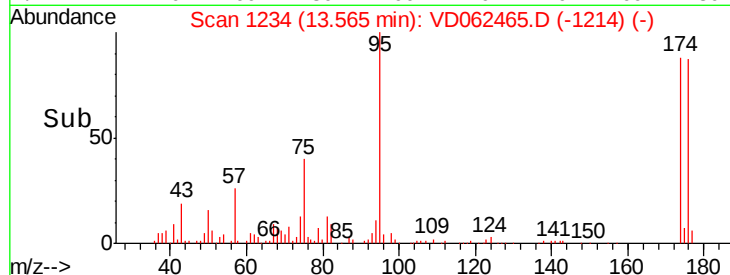
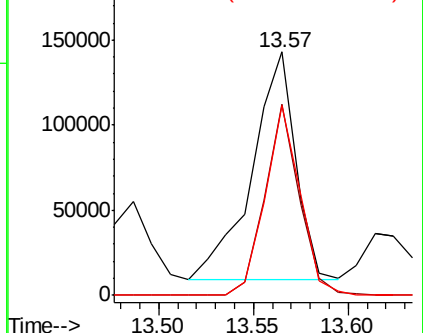
176 77.9 0.0 174.4



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# 1113

Delta R.T. -0.00 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

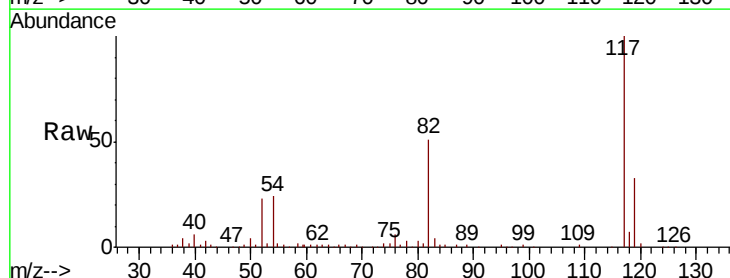
Tgt Ion: 117 Resp: 529631

Ion Ratio Lower Upper

117 100

82 51.3 36.2 54.2

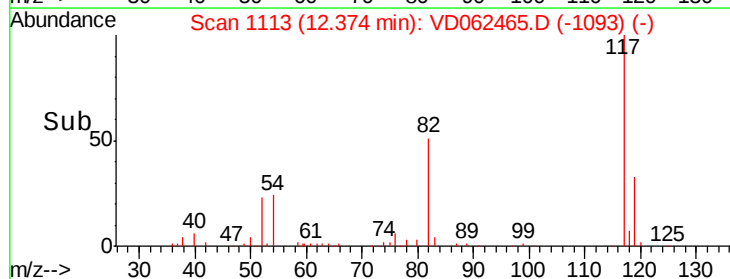
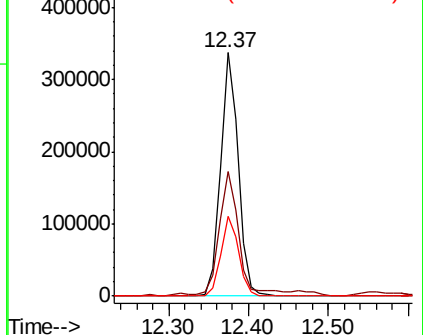
119 32.7 26.2 39.4

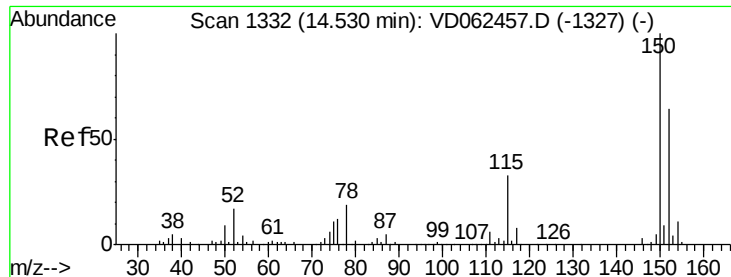


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. -0.00 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampled :

BFB

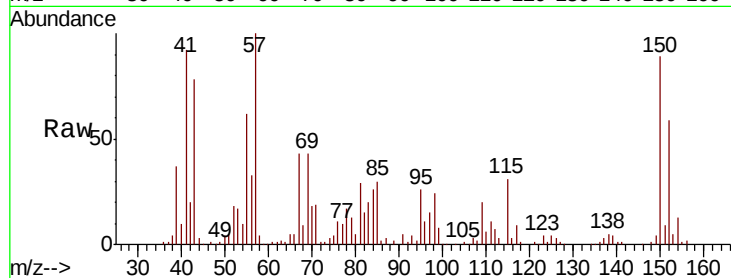
Tot Ion:152 Resp: 171310

Ion Ratio Lower Upper

152 100

115 52.1 30.9 92.7

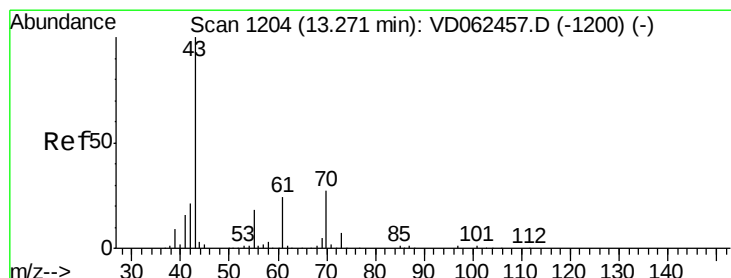
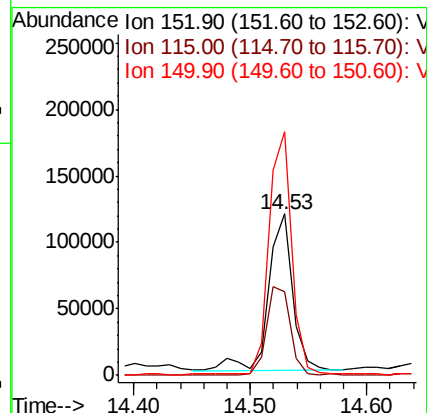
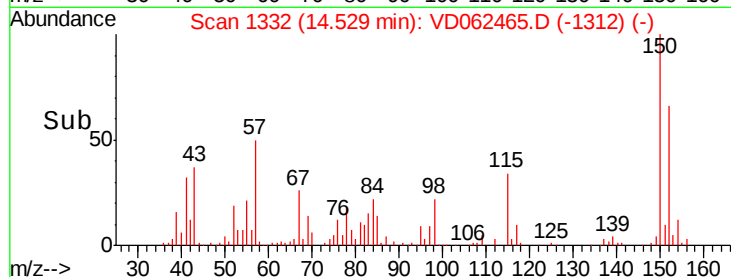
150 150.8 0.0 314.8



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: 51.276 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. -0.04 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Tgt Ion: 43 Resp: 136752

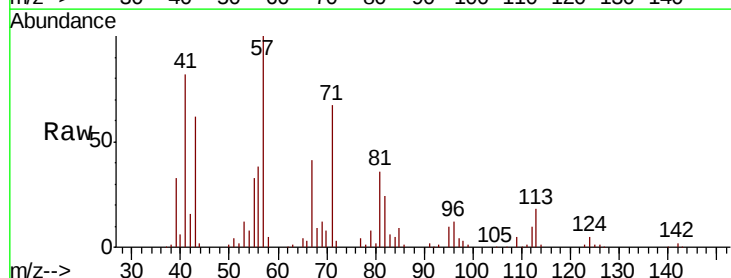
Ion Ratio Lower Upper

43 100

70 13.3 24.2 36.4#

55 54.3 16.0 24.0#

61 0.0 21.6 32.4#

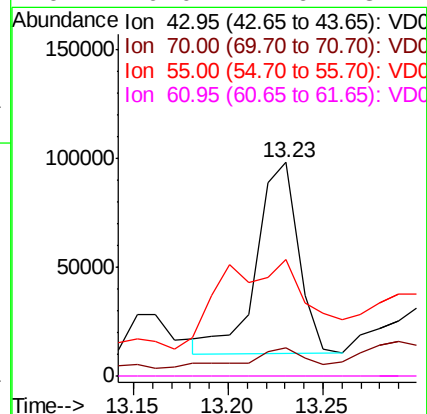
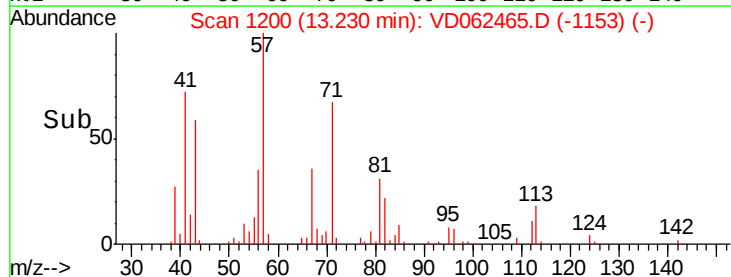


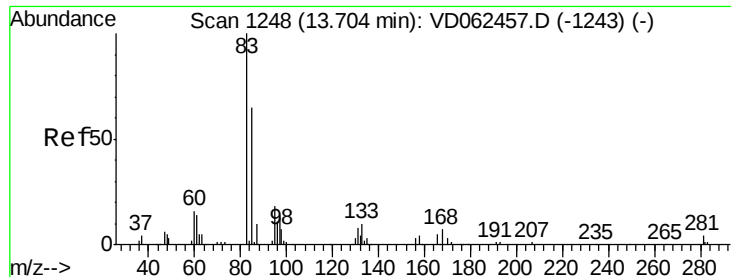
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 27.551 ug/l

RT: 13.72 min Scan# 1250

Delta R.T. 0.02 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampleID :

BFB

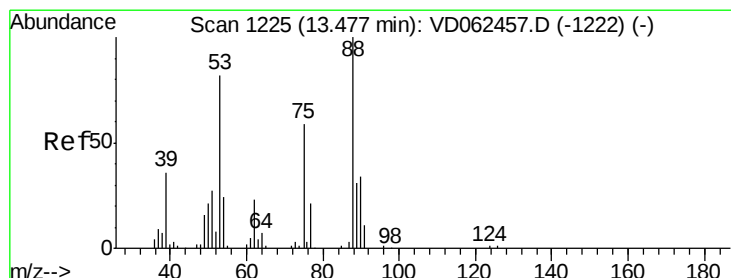
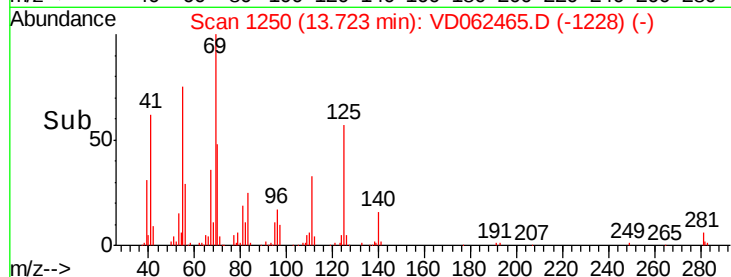
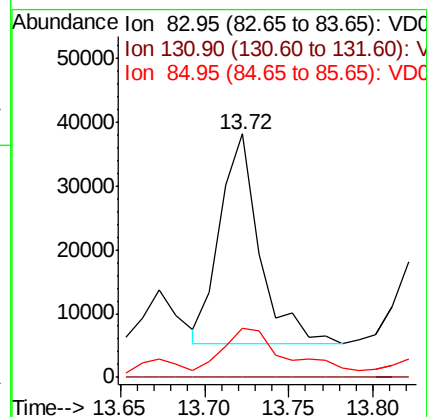
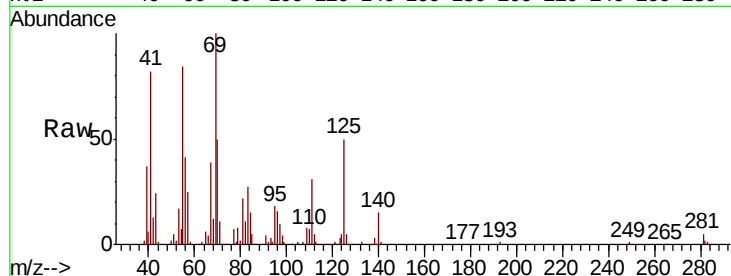
Tot Ion: 83 Resp: 53672

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 20.1 32.6 97.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 126.709 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.09 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

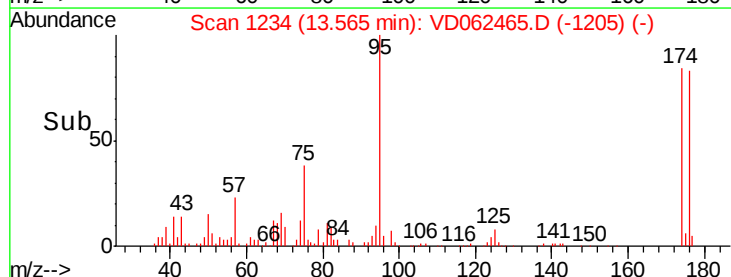
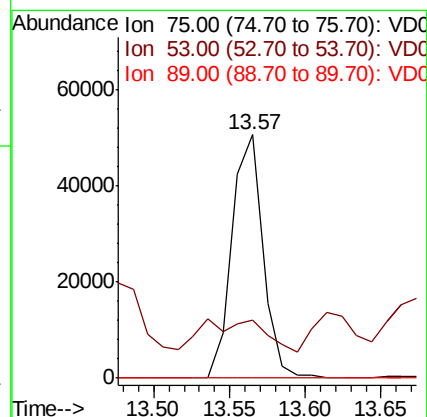
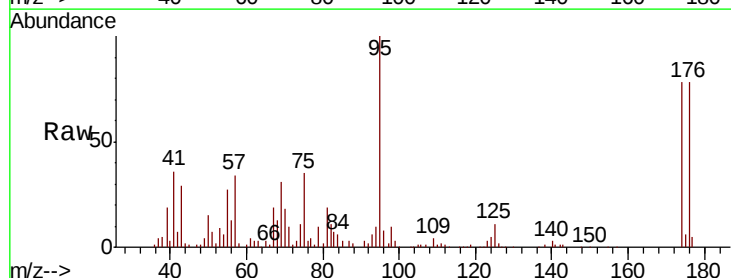
Tgt Ion: 75 Resp: 72108

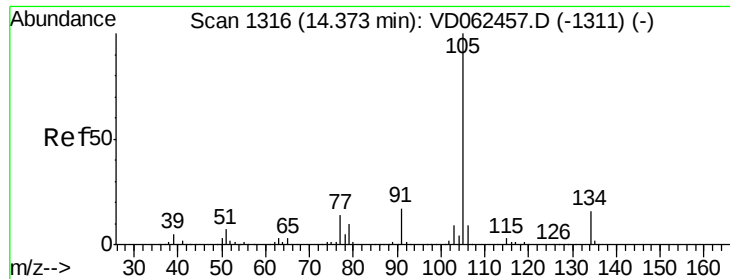
Ion Ratio Lower Upper

75 100

53 24.0 65.8 98.8#

89 0.0 35.0 52.6#





#85

sec-Butylbenzene

Concen: 4.489 ug/l

RT: 14.37 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampleID :

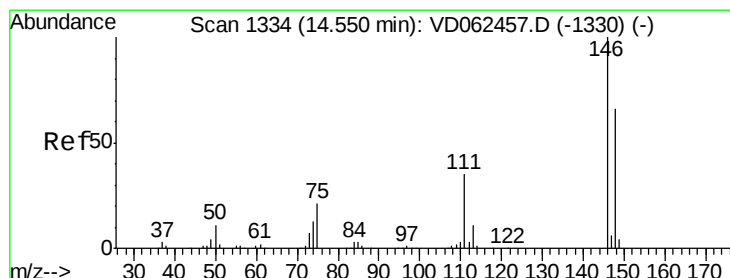
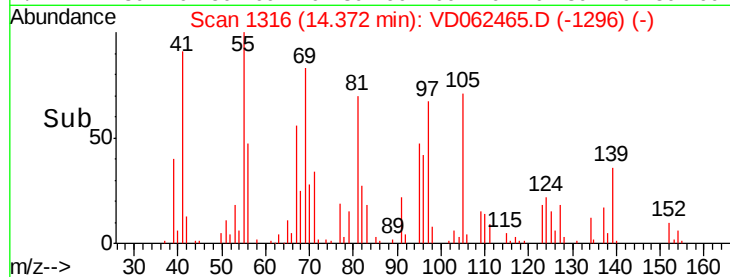
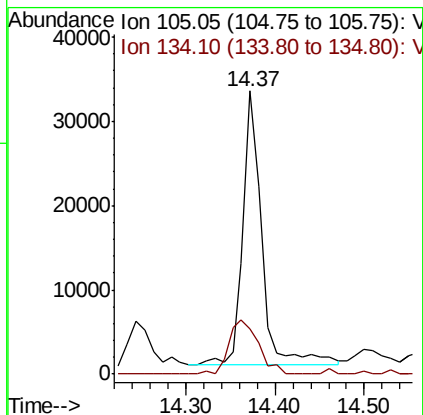
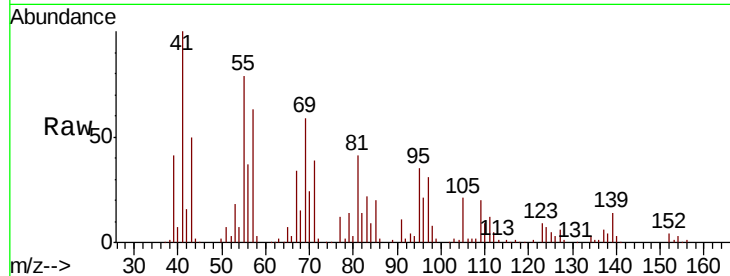
BFB

Tot Ion:105 Resp: 48549

Ion Ratio Lower Upper

105 100

134 15.9 8.9 26.7



#88

1,4-Dichlorobenzene

Concen: 1.583 ug/l

RT: 14.55 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

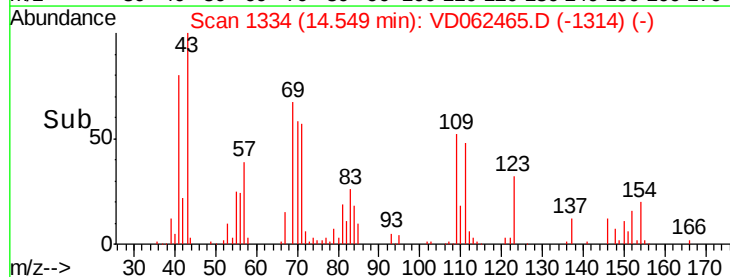
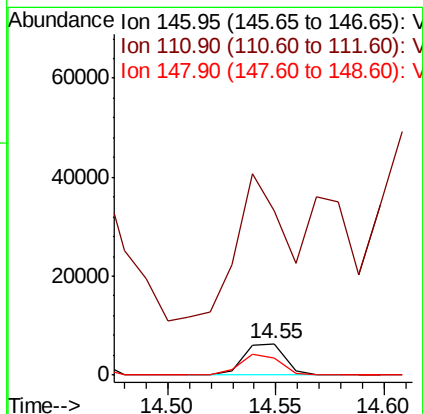
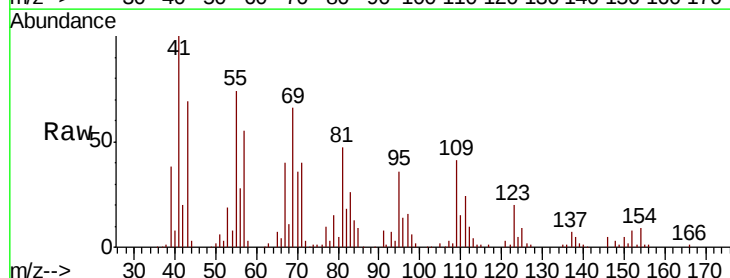
Tgt Ion:146 Resp: 8263

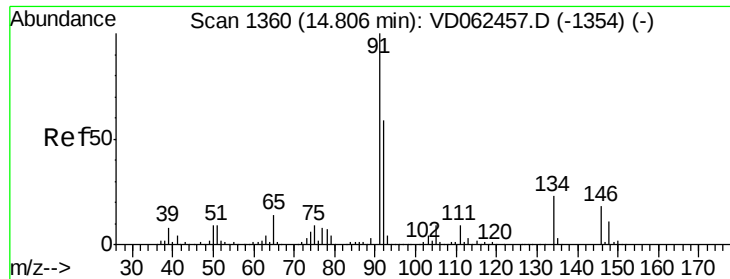
Ion Ratio Lower Upper

146 100

111 528.5 20.2 60.5#

148 55.6 32.0 96.2





#89

n-Butylbenzene

Concen: 4.178 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampled :

BFB

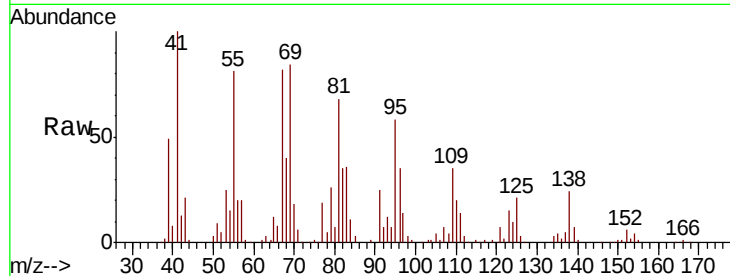
Tot Ion: 91 Resp: 39516

Ion Ratio Lower Upper

91 100

92 30.2 30.3 91.0#

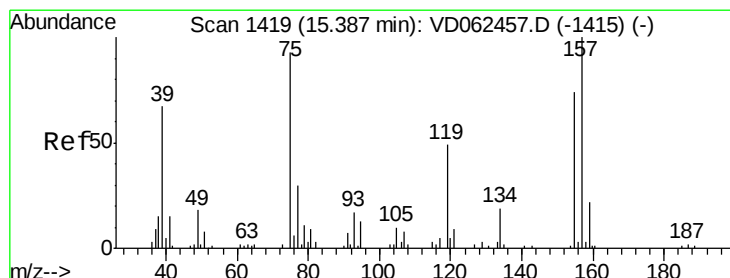
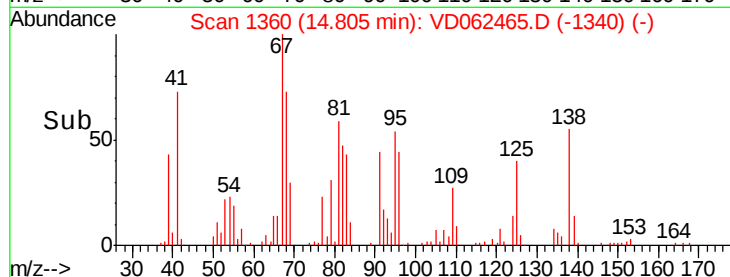
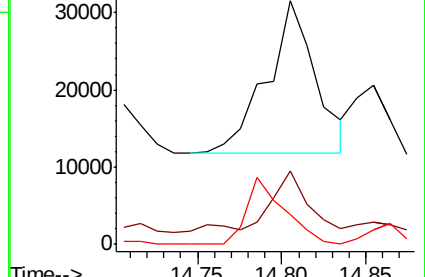
134 12.3 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#92

1,2-Dibromo-3-Chloropropane

Concen: 7.978 ug/l

RT: 15.36 min Scan# 1416

Delta R.T. -0.03 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

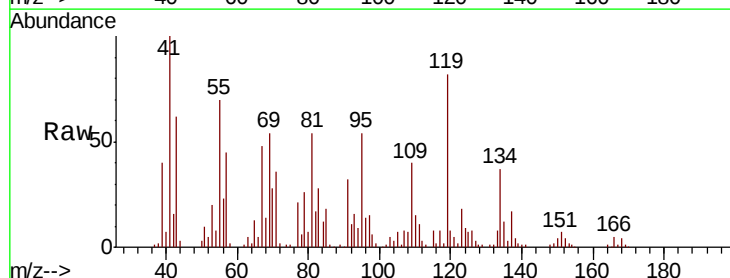
Tgt Ion: 75 Resp: 2950

Ion Ratio Lower Upper

75 100

155 38.3 55.3 165.8#

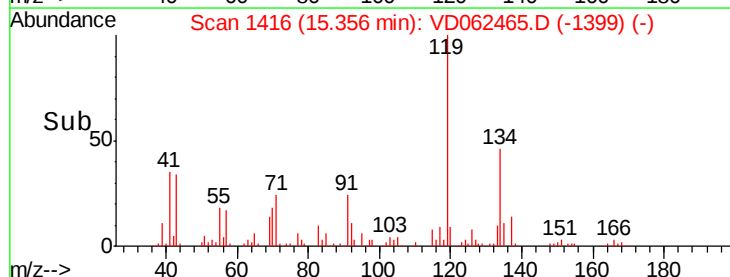
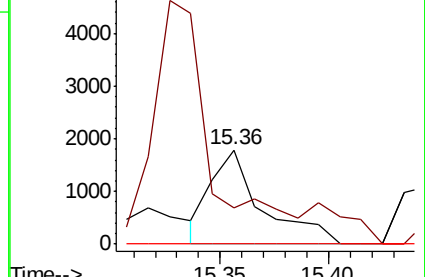
157 0.0 67.8 203.2#

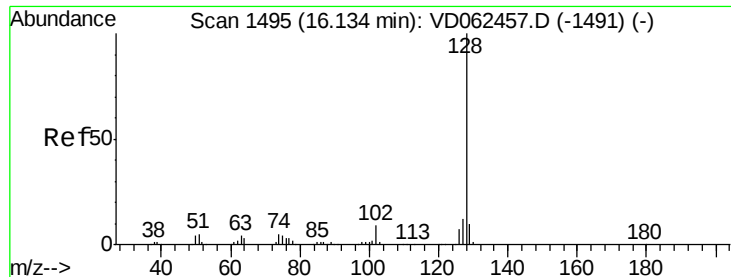


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 154.90 (154.60 to 155.60): VDC

Ion 156.85 (156.55 to 157.55): VDC





#95

Naphthalene

Concen: 1.707 ug/l

RT: 16.12 min Scan# 1494

Delta R.T. -0.01 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

Instrument :

MSVOA_D

ClientSampled :

BFB

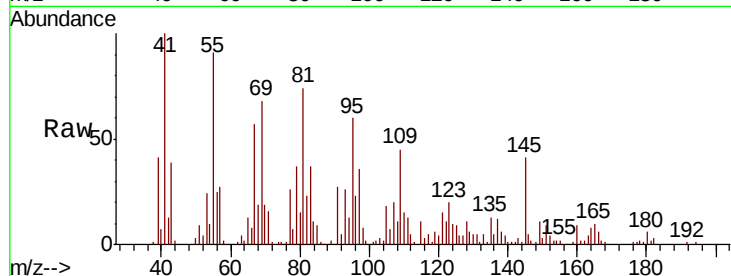
Tot Ion:128 Resp: 8448

Ion Ratio Lower Upper

128 100

127 36.4 9.8 14.8#

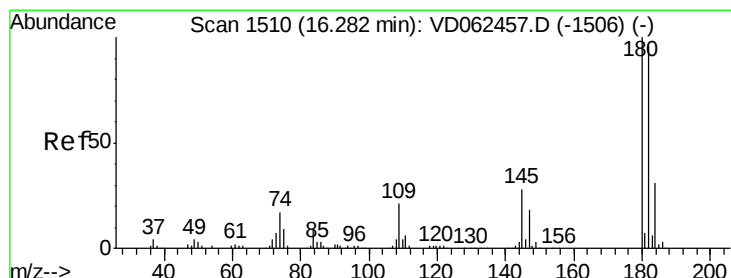
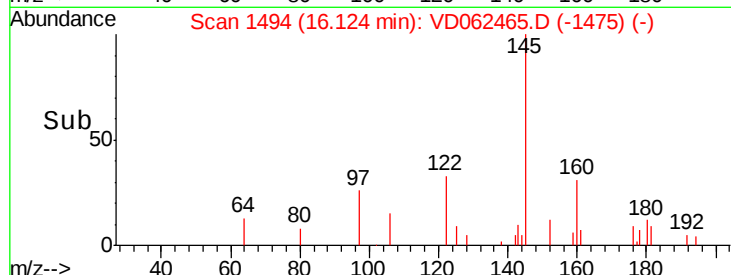
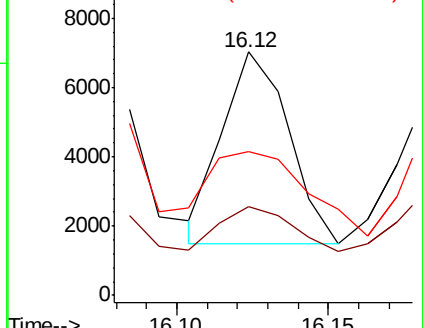
129 58.9 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.159 ug/l

RT: 16.30 min Scan# 1512

Delta R.T. 0.02 min

Lab File: VD062465.D

Acq: 20 May 2019 19:31

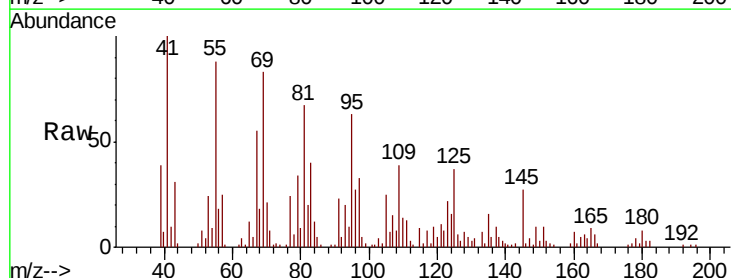
Tgt Ion:180 Resp: 3440

Ion Ratio Lower Upper

180 100

182 30.3 47.0 141.0#

145 320.2 17.0 51.0#



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

