

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
 Data File : VD063768.D
 Acq On : 23 Aug 2019 16:05
 Operator : JC/SY
 Sample : K4452-01RE
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 26 11:13:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	733069	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	1062775	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	733635	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	229687	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	511988	65.34	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	130.68%	
35) Dibromofluoromethane	6.92	113	572821	64.00	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	128.00%	
50) Toluene-d8	10.41	98	1203941	61.18	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	122.36%	
62) 4-Bromofluorobenzene	13.55	95	353437	39.63	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	79.26%	

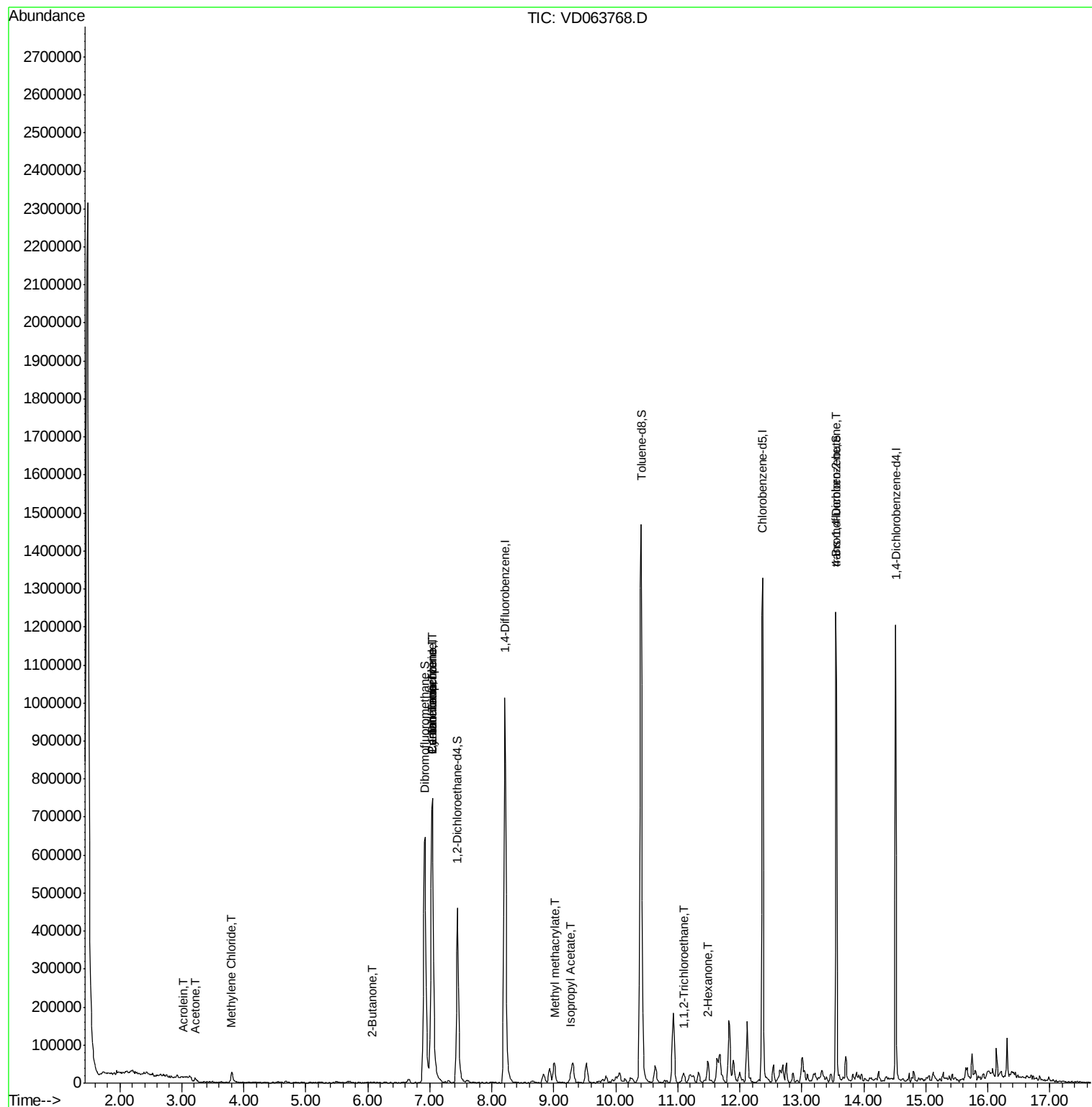
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.02	56	734	2.186	ug/l	84
16) Acetone	3.21	43	17072	10.718	ug/l	94
20) Methylene Chloride	3.80	84	16260	2.361	ug/l	88
25) 2-Butanone	6.08	43	3854	2.450	ug/l #	58
31) Cyclohexane	7.03	56	18147	2.565	ug/l #	9
36) 1,1-Dichloropropene	7.03	75	54545	5.806	ug/l #	50
38) Carbon Tetrachloride	7.04	117	69394	4.901	ug/l #	18
43) Isopropyl Acetate	9.27	43	11997	2.275	ug/l #	48
48) Methyl methacrylate	9.01	41	20395	5.704	ug/l #	54
55) 1,1,2-Trichloroethane	11.10	97	12801	2.846	ug/l #	17
59) 2-Hexanone	11.48	43	31878	12.143	ug/l #	30
81) trans-1,4-Dichloro-2-buten	13.55	75	161339	227.719	ug/l #	1

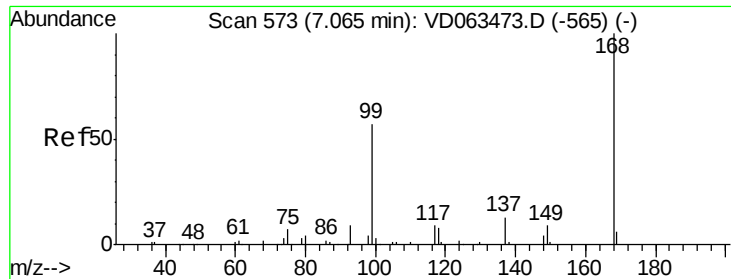
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 26 11:13:09 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

Instrument :

MSVOA_D

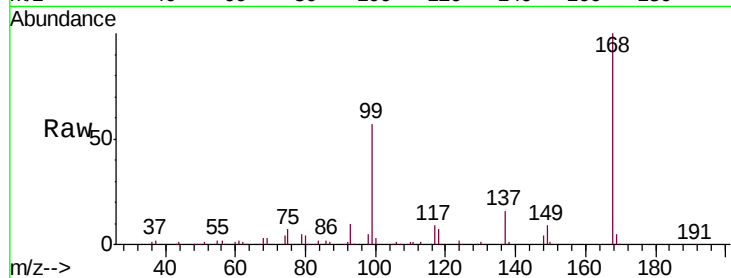
ClientSampleId :

Tot Ion:168 Resp: 733069

Ion Ratio Lower Upper

168 100

99 56.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

250000

200000

150000

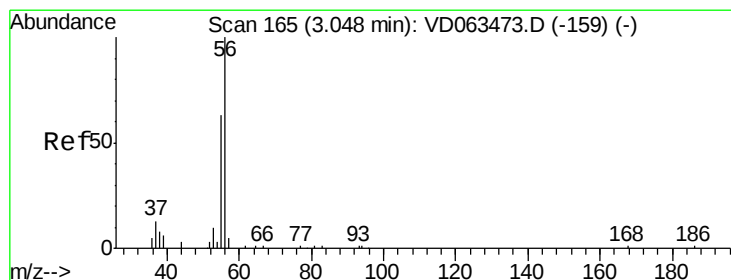
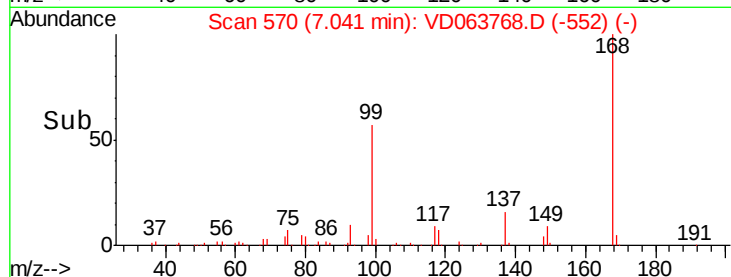
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#13

Acrolein

Concen: 2.186 ug/l

RT: 3.02 min Scan# 161

Delta R.T. -0.03 min

Lab File: VD063768.D

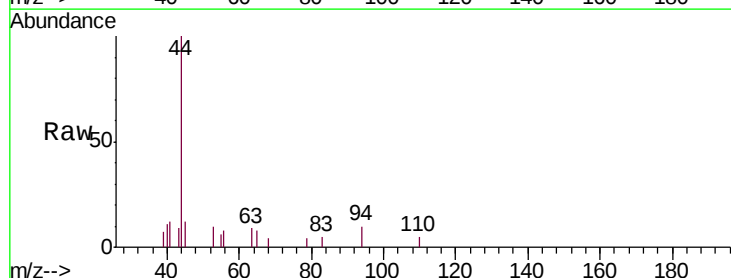
Acq: 23 Aug 2019 16:05

Tgt Ion: 56 Resp: 734

Ion Ratio Lower Upper

56 100

55 76.4 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

800

600

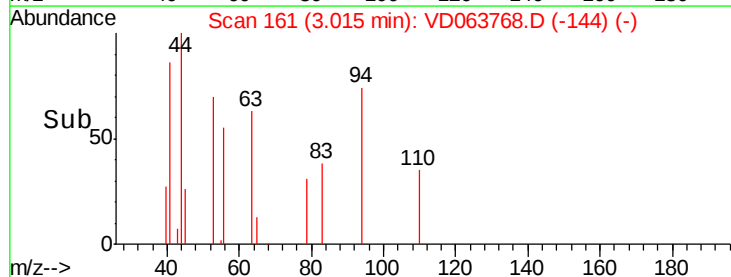
400

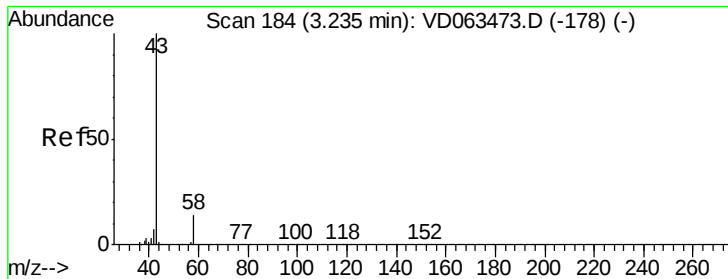
200

0

3.00 3.05

Time-->





#16

Acetone

Concen: 10.718 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

Instrument :

MSVOA_D

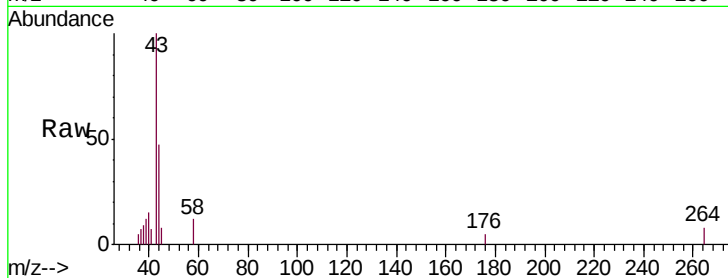
ClientSampleId :

Tot Ion: 43 Resp: 17072

Ion Ratio Lower Upper

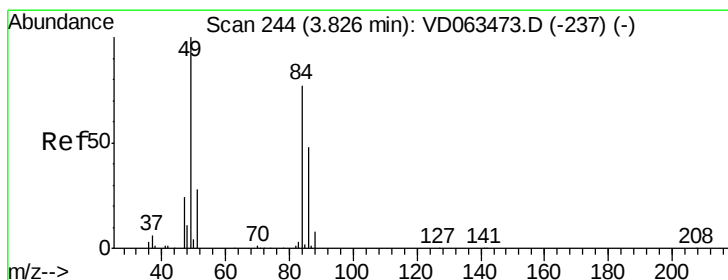
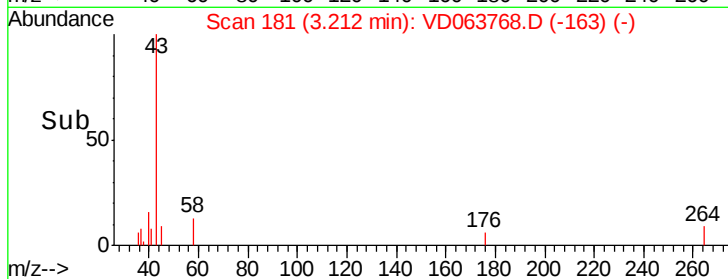
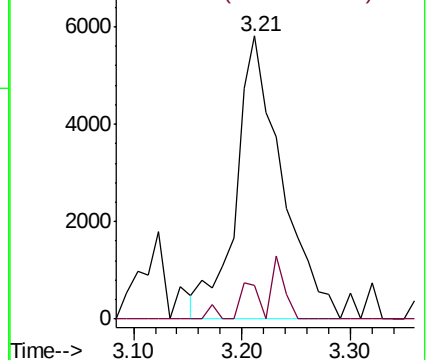
43 100

58 11.8 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.361 ug/l

RT: 3.80 min Scan# 241

Delta R.T. -0.02 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

Tgt Ion: 84 Resp: 16260

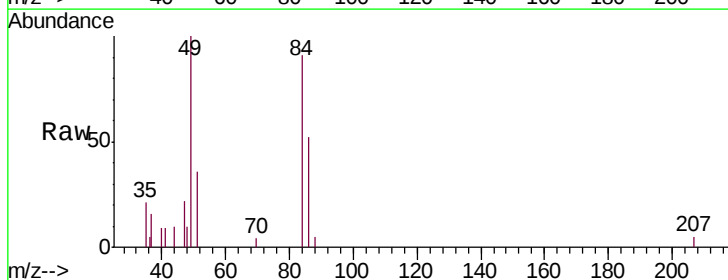
Ion Ratio Lower Upper

84 100

49 110.2 103.4 155.2

51 40.1 28.5 42.7

86 57.9 49.4 74.2

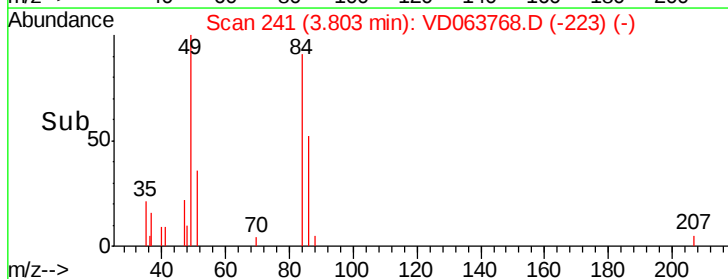
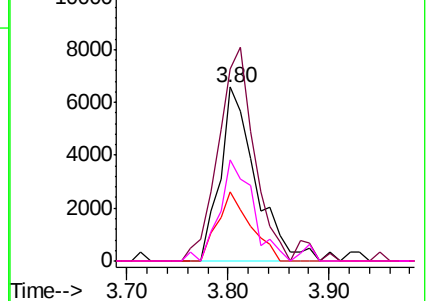


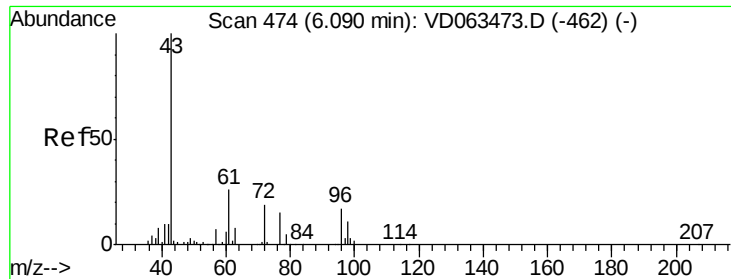
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

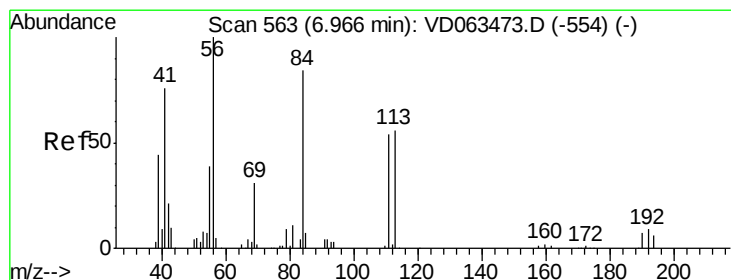
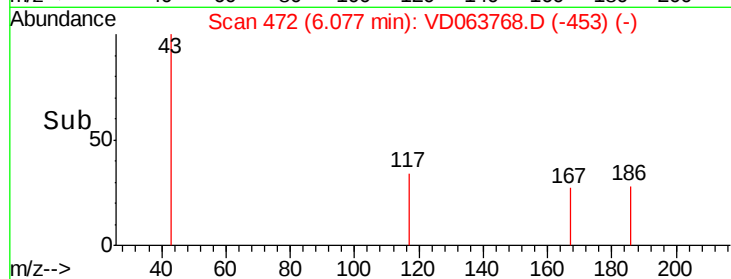
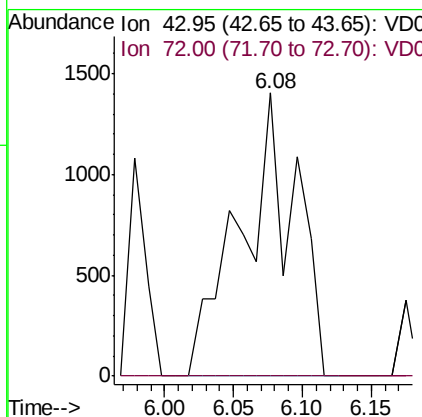
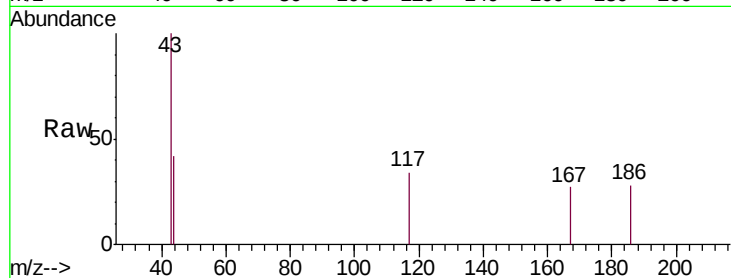




#25
2-Butanone
Concen: 2.450 ug/l
RT: 6.08 min Scan# 472
Delta R.T. -0.01 min
Lab File: VD063768.D
Acq: 23 Aug 2019 16:05

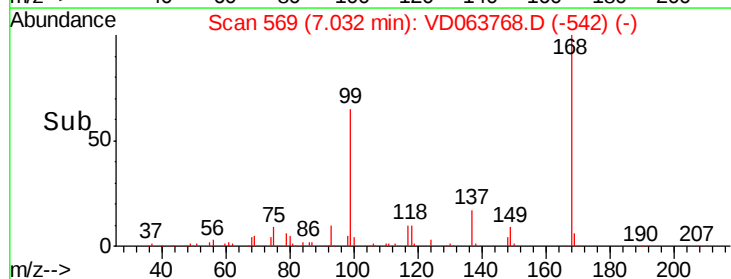
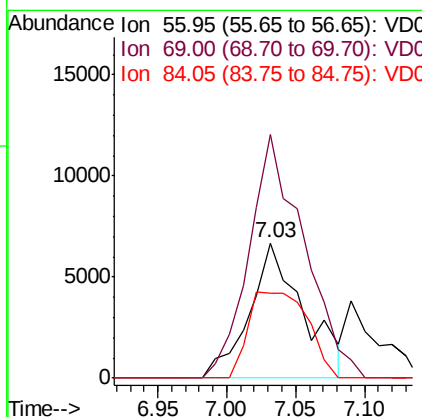
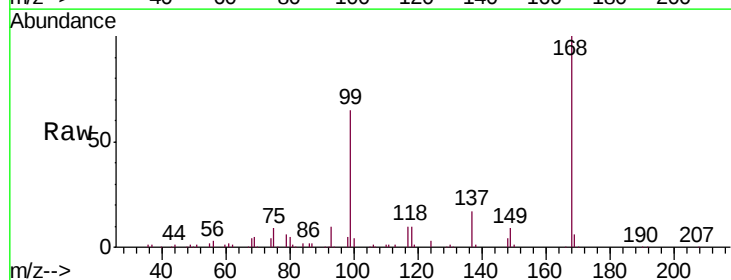
Instrument :
MSVOA_D
ClientSampleId :

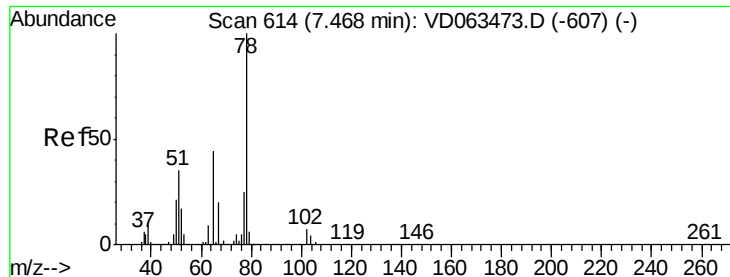
Tot Ion: 43 Resp: 3854
Ion Ratio Lower Upper
43 100
72 0.0 15.1 22.7#



#31
Cyclohexane
Concen: 2.565 ug/l
RT: 7.03 min Scan# 569
Delta R.T. 0.07 min
Lab File: VD063768.D
Acq: 23 Aug 2019 16:05

Tgt Ion: 56 Resp: 18147
Ion Ratio Lower Upper
56 100
69 180.6 25.0 37.6#
84 62.8 69.7 104.5#





#33

1,2-Dichloroethane-d4

Concen: 65.338 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

Instrument :

MSVOA_D

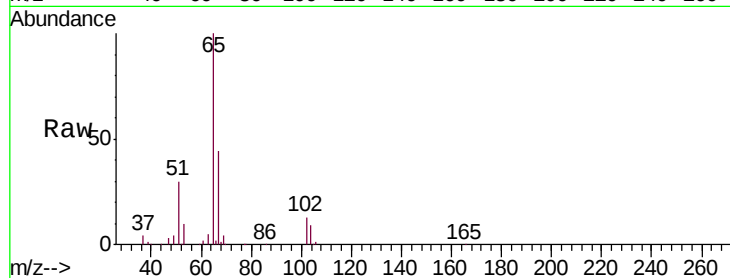
ClientSampleId :

Tot Ion: 65 Resp: 511988

Ion Ratio Lower Upper

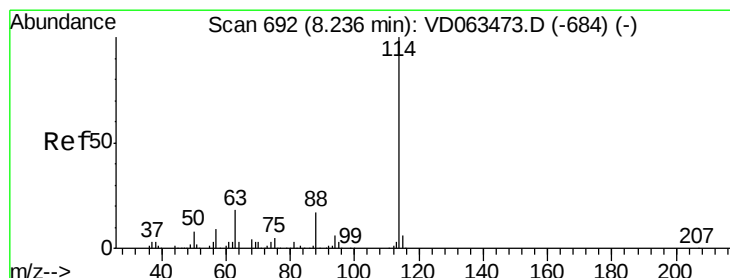
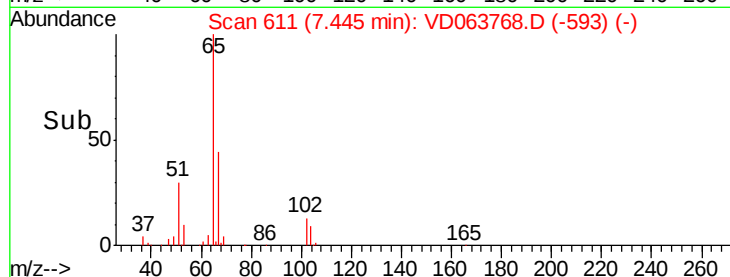
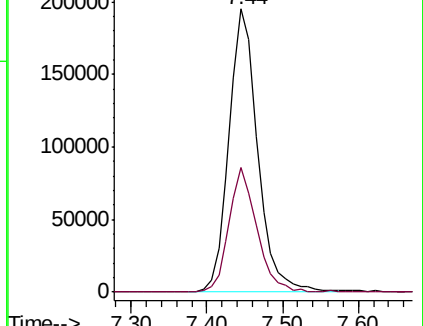
65 100

67 43.9 0.0 89.2



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: 8.21 min Scan# 689

Delta R.T. -0.02 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

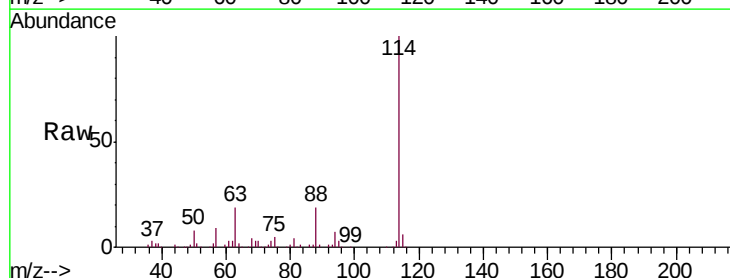
Tgt Ion:114 Resp: 1062775

Ion Ratio Lower Upper

114 100

63 19.1 0.0 36.2

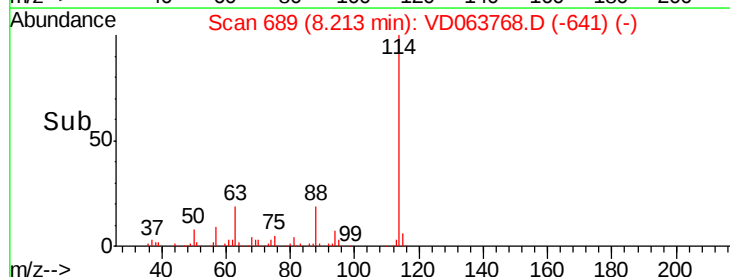
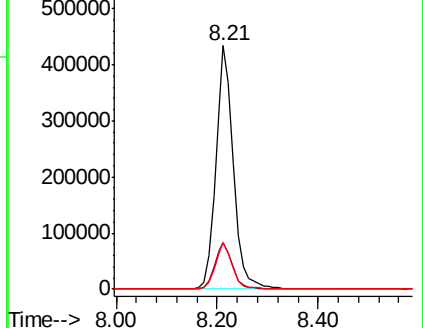
88 18.9 0.0 35.0

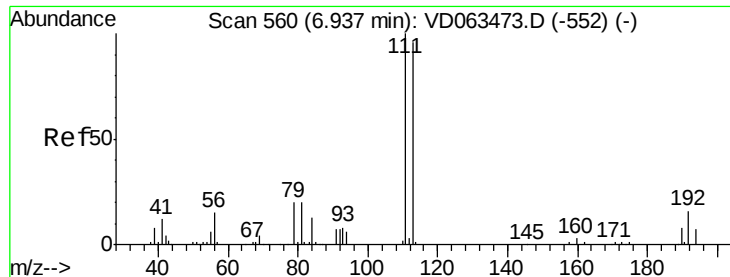


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 63.997 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

Instrument :
MSVOA_D
ClientSampleId :

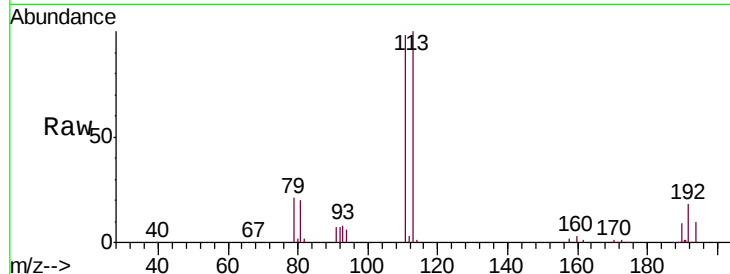
Tot Ion:113 Resp: 572821

Ion Ratio Lower Upper

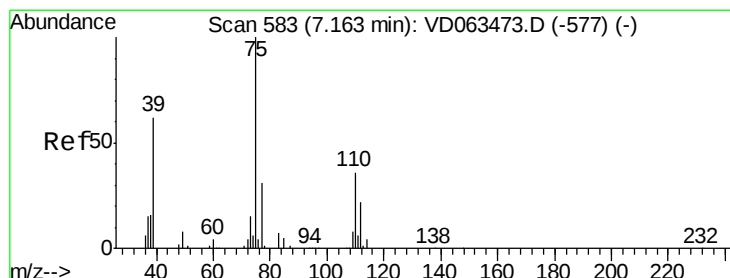
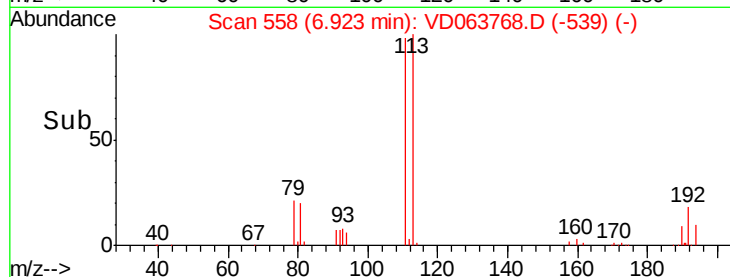
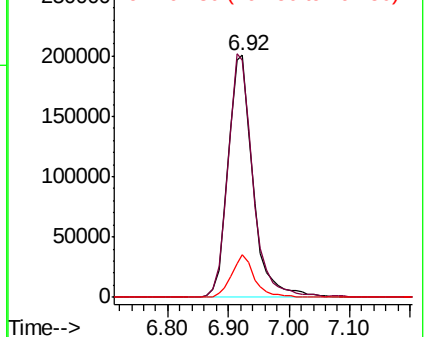
113 100

111 98.3 83.1 124.7

192 17.6 13.1 19.7



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: 5.806 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.13 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

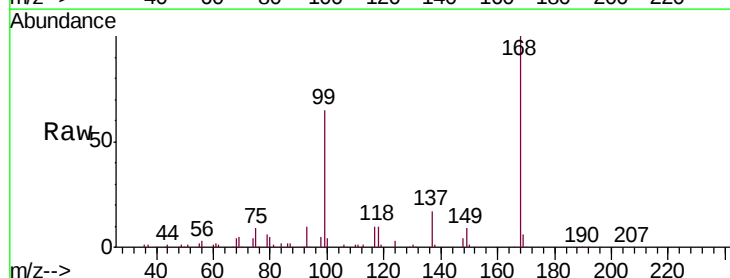
Tgt Ion: 75 Resp: 54545

Ion Ratio Lower Upper

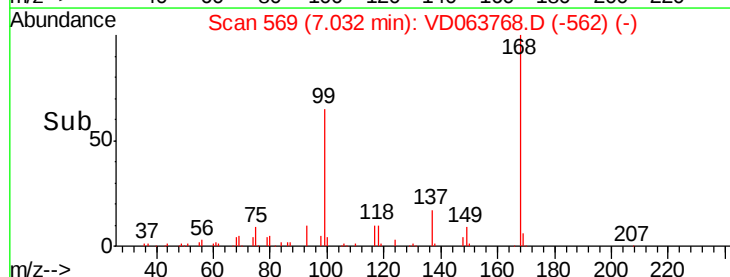
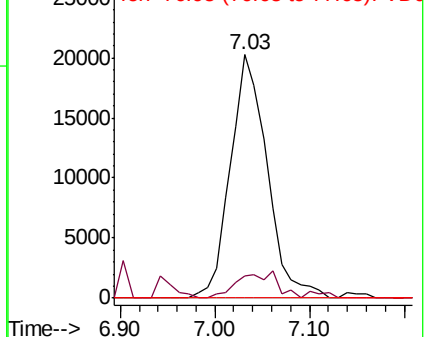
75 100

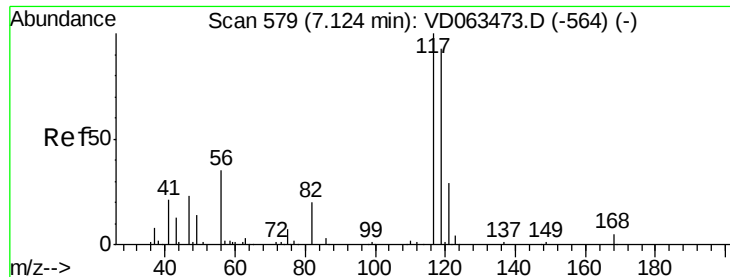
110 8.8 17.6 52.8#

77 0.0 24.3 36.5#



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





#38

Carbon Tetrachloride

Concen: 4.901 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.08 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

Instrument :

MSVOA_D

ClientSampleId :

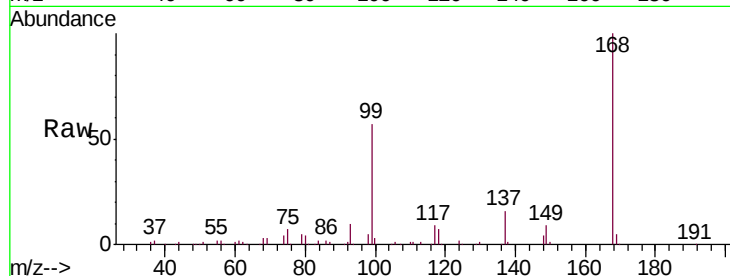
Tot Ion:117 Resp: 69394

Ion Ratio Lower Upper

117 100

119 5.3 74.2 111.2#

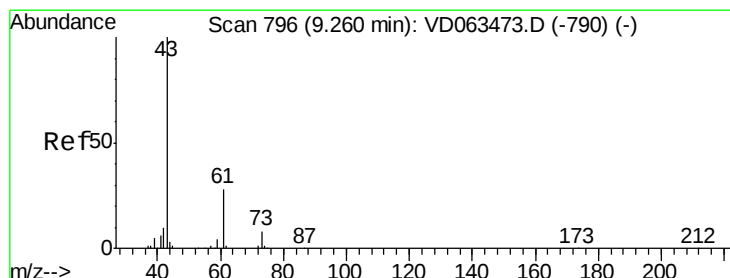
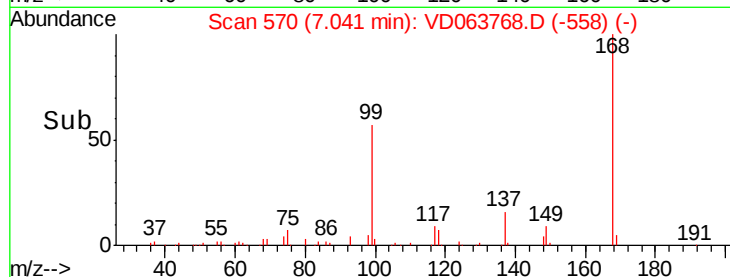
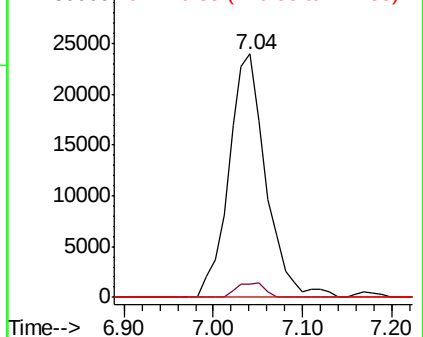
121 0.0 23.1 34.7#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#43

Isopropyl Acetate

Concen: 2.275 ug/l

RT: 9.27 min Scan# 796

Delta R.T. 0.01 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

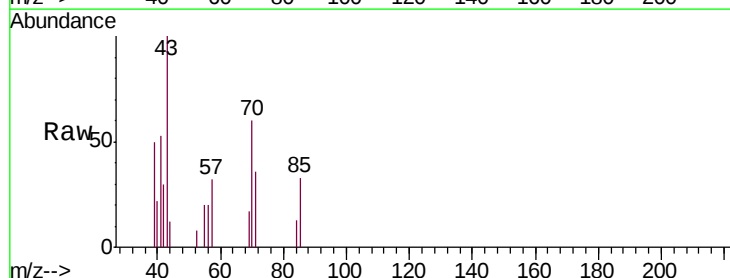
Tgt Ion: 43 Resp: 11997

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.2#

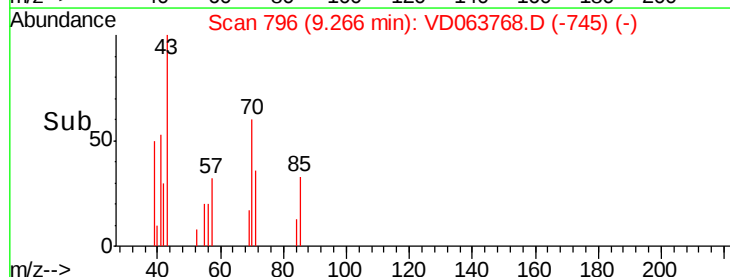
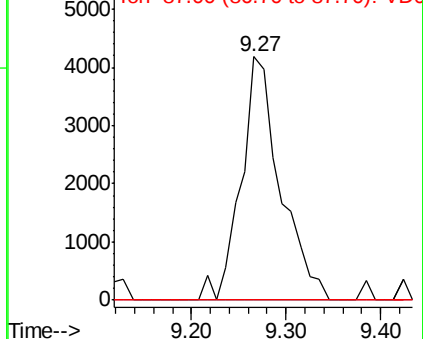
87 0.0 0.2 0.4#

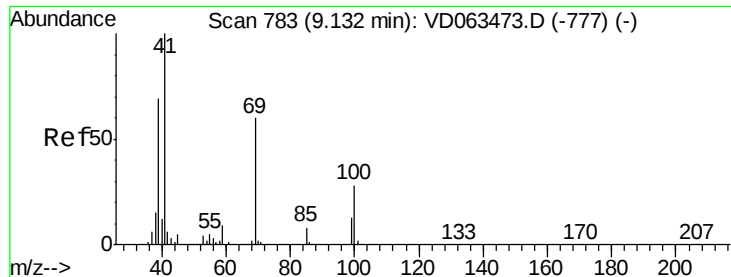


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC

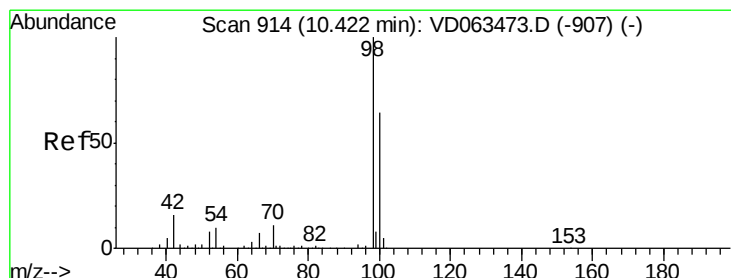
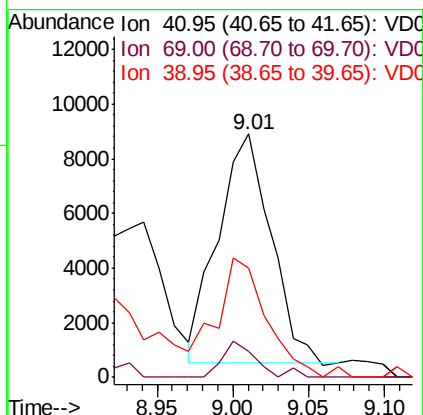
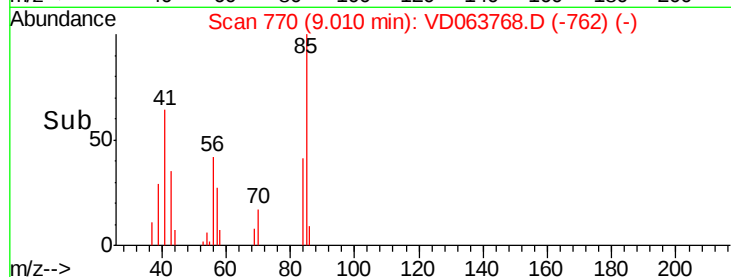
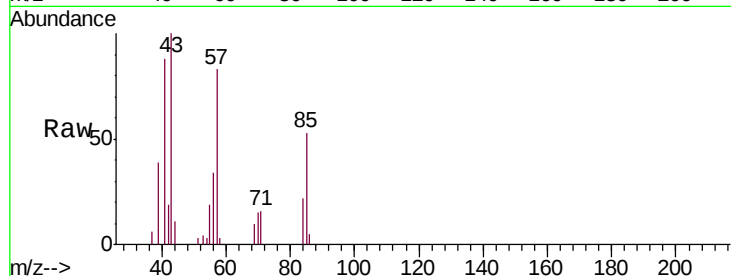




#48
Methyl methacrylate
Concen: 5.704 ug/l
RT: 9.01 min Scan# 770
Delta R.T. -0.12 min
Lab File: VD063768.D
Acq: 23 Aug 2019 16:05

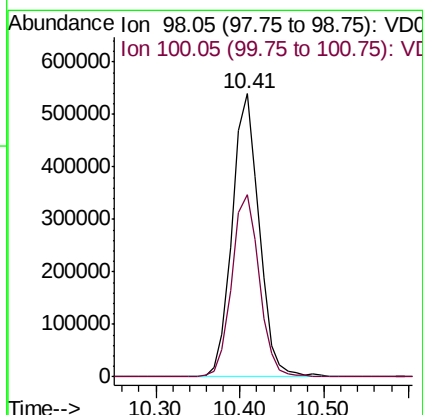
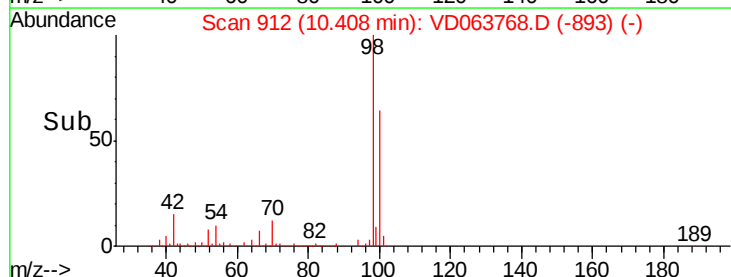
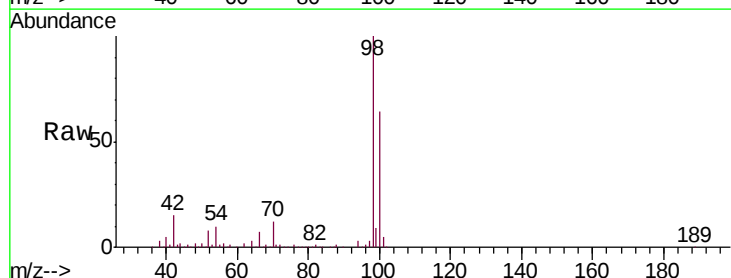
Instrument :
MSVOA_D
ClientSampled :

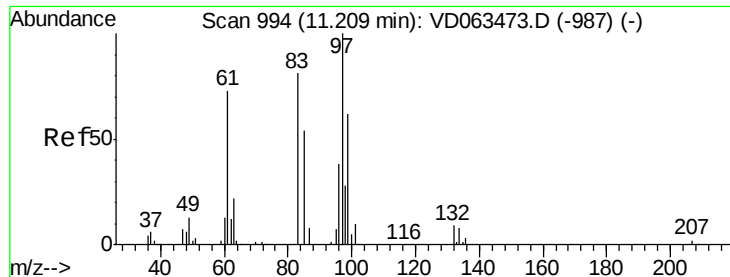
Tot Ion: 41 Resp: 20395
Ion Ratio Lower Upper
41 100
69 10.9 47.6 71.4#
39 44.6 55.7 83.5#



#50
Toluene-d8
Concen: 61.180 ug/l
RT: 10.41 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD063768.D
Acq: 23 Aug 2019 16:05

Tgt Ion: 98 Resp: 1203941
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5





#55

1,1,2-Trichloroethane

Concen: 2.846 ug/l

RT: 11.10 min Scan# 982

Delta R.T. -0.11 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 12801

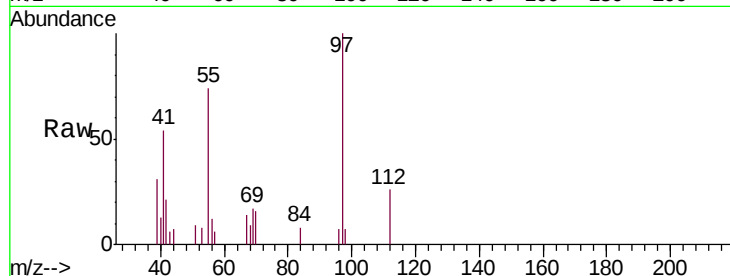
Ion Ratio Lower Upper

97 100

83 0.0 64.7 97.1#

85 0.0 42.9 64.3#

99 0.0 49.7 74.5#

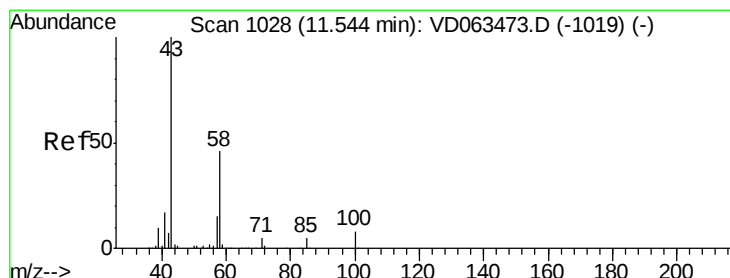
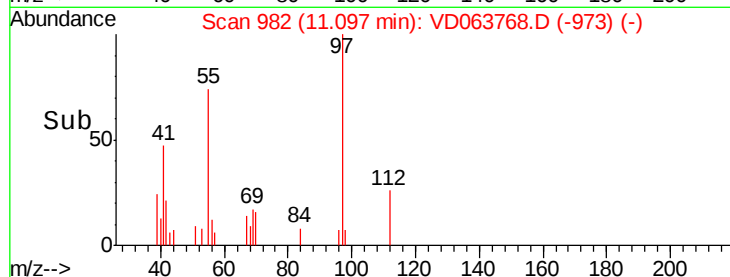
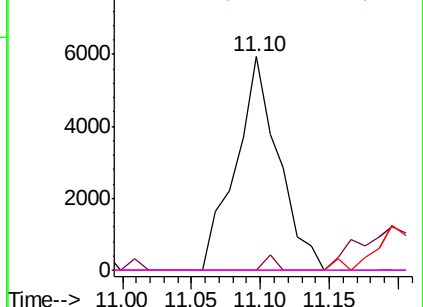


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#59

2-Hexanone

Concen: 12.143 ug/l

RT: 11.48 min Scan# 1021

Delta R.T. -0.06 min

Lab File: VD063768.D

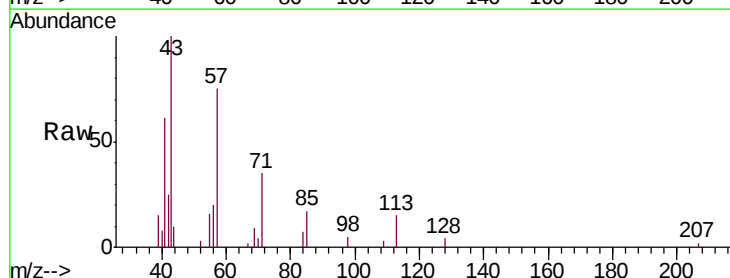
Acq: 23 Aug 2019 16:05

Tgt Ion: 43 Resp: 31878

Ion Ratio Lower Upper

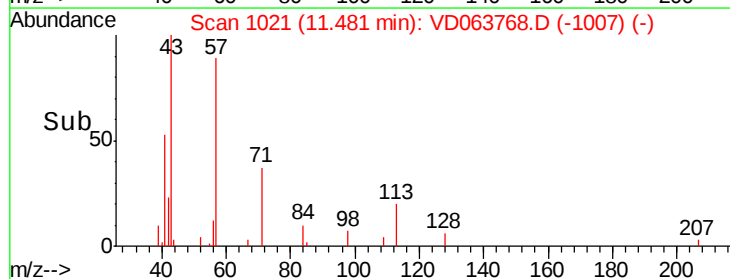
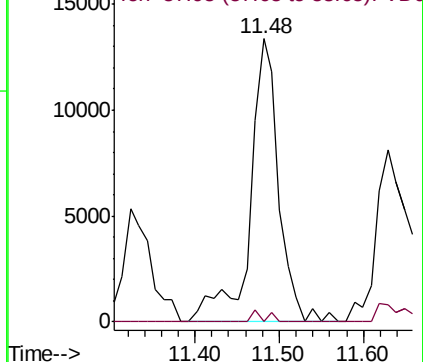
43 100

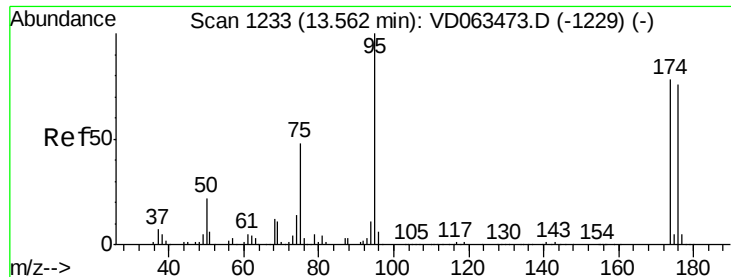
58 0.0 23.1 69.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 39.627 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

Instrument :

MSVOA_D

ClientSampleId :

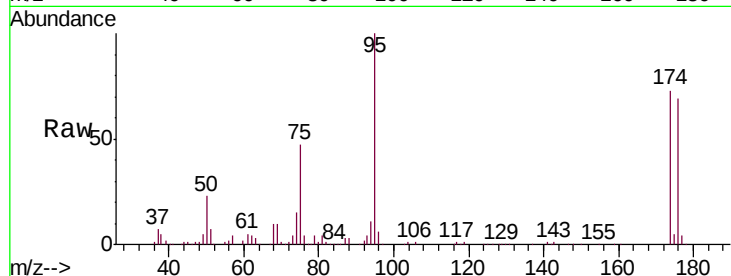
Tot Ion: 95 Resp: 353437

Ion Ratio Lower Upper

95 100

174 73.2 0.0 155.4

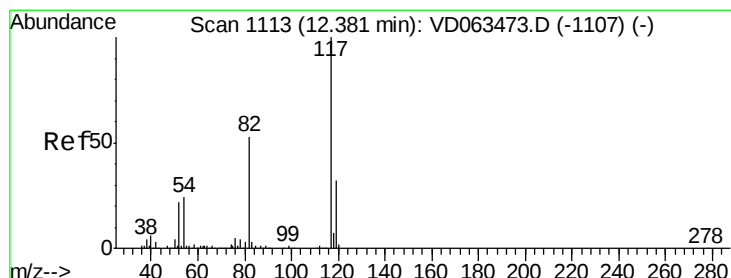
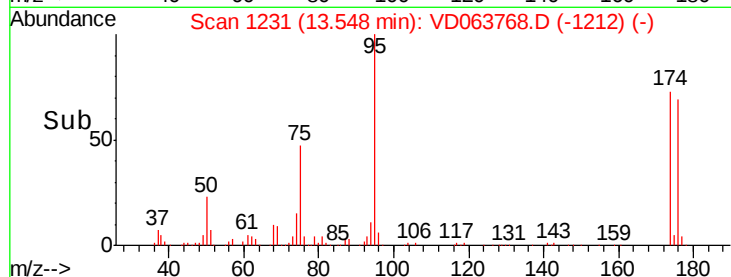
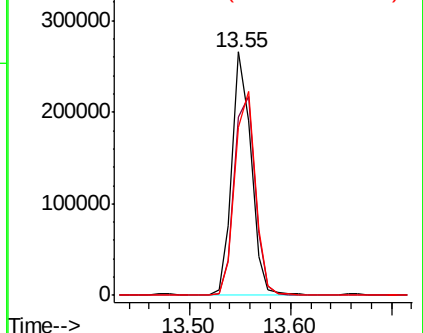
176 68.8 0.0 152.4



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# 1111

Delta R.T. -0.01 min

Lab File: VD063768.D

Acq: 23 Aug 2019 16:05

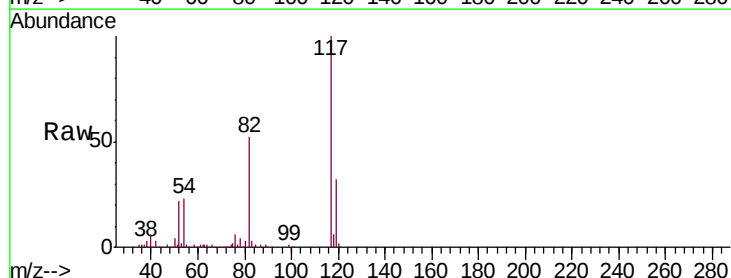
Tgt Ion: 117 Resp: 733635

Ion Ratio Lower Upper

117 100

82 52.0 42.0 63.0

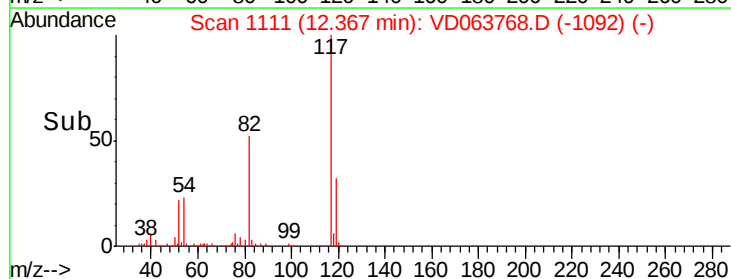
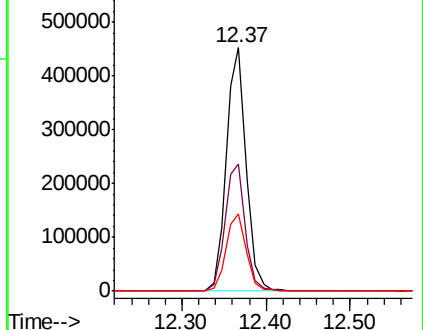
119 31.8 25.4 38.0

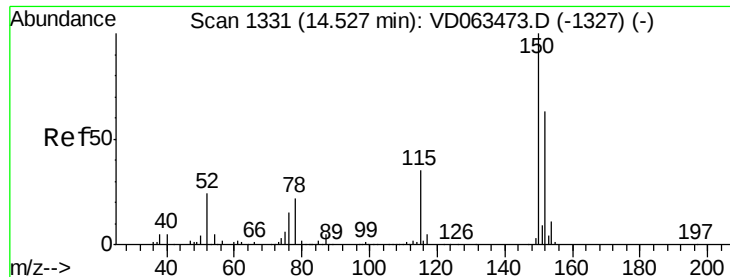


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



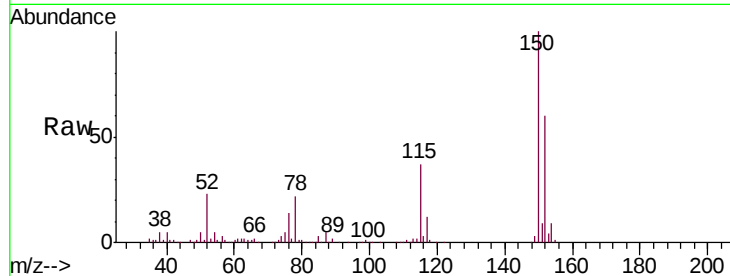


#72

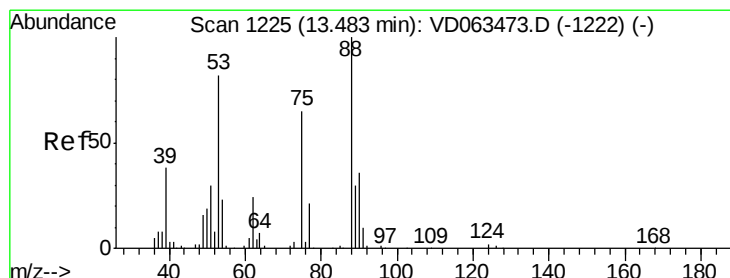
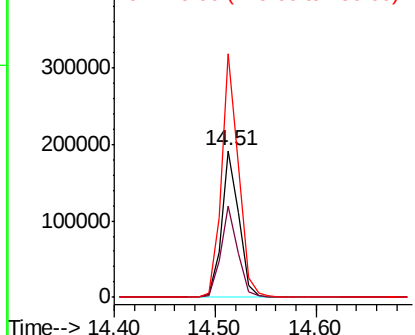
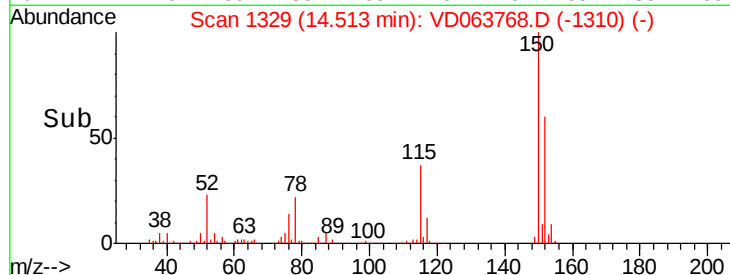
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063768.D
Acq: 23 Aug 2019 16:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	62.2	30.9	92.7
150	166.1	0.0	318.6



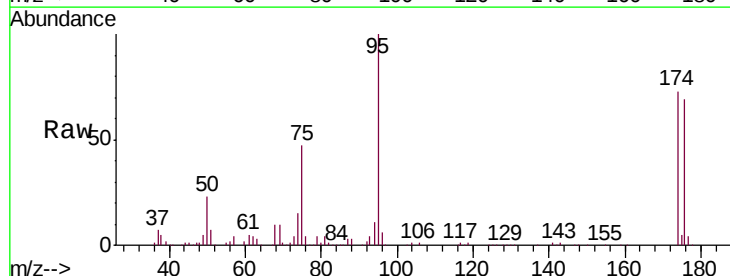
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
Concen: 227.719 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. 0.07 min
Lab File: VD063768.D
Acq: 23 Aug 2019 16:05

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	101.0	151.4#
89	0.0	37.0	55.6#



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

