

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063184.D
 Acq On : 22 Jul 2019 18:33
 Operator : VA/AP
 Sample : K3897-02
 Misc : 6.40g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-BPM-01-F03-G03-F03A-G03A

Quant Time: Jul 23 07:51:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	886339	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	1233428	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	1107655	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	541562	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	629001	56.97	ug/l	0.01
Spiked Amount 50.000			Recovery	=	113.94%	
35) Dibromofluoromethane	6.93	113	686650	55.89	ug/l	0.01
Spiked Amount 50.000			Recovery	=	111.78%	
50) Toluene-d8	10.42	98	1482663	56.19	ug/l	0.02
Spiked Amount 50.000			Recovery	=	112.38%	
62) 4-Bromofluorobenzene	13.56	95	651486	53.36	ug/l	0.01
Spiked Amount 50.000			Recovery	=	106.72%	

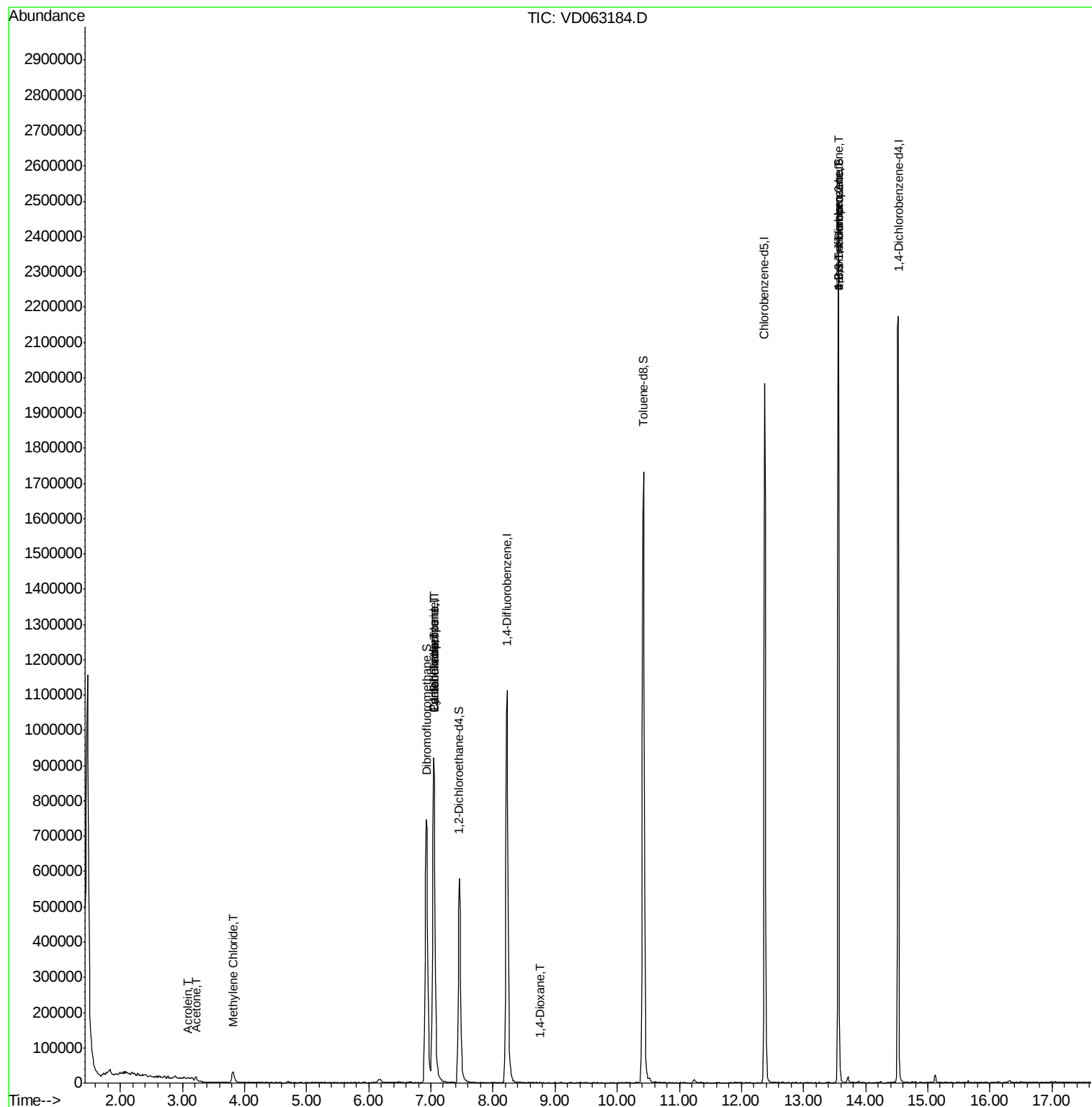
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	707	Below Cal	#	43
3) Chloromethane	1.75	50	242	Below Cal	#	48
5) Bromomethane	2.16	94	4653	Below Cal	#	13
13) Acrolein	3.08	56	276	1.435	ug/l	99
16) Acetone	3.22	43	24718	9.269	ug/l	100
18) Methyl Acetate	3.67	43	224	Below Cal	#	63
20) Methylene Chloride	3.82	84	21755	2.159	ug/l	# 89
31) Cyclohexane	7.04	56	17466	1.662	ug/l	# 20
36) 1,1-Dichloropropene	7.04	75	65908	4.751	ug/l	# 49
38) Carbon Tetrachloride	7.04	117	83335	3.953	ug/l	# 13
49) 1,4-Dioxane	8.76	88	188	3.901	ug/l	# 27
76) 1,2,3-Trichloropropane	13.56	75	292670	35.131	ug/l	# 44
81) trans-1,4-Dichloro-2-buten	13.56	75	308579	140.659	ug/l	# 1

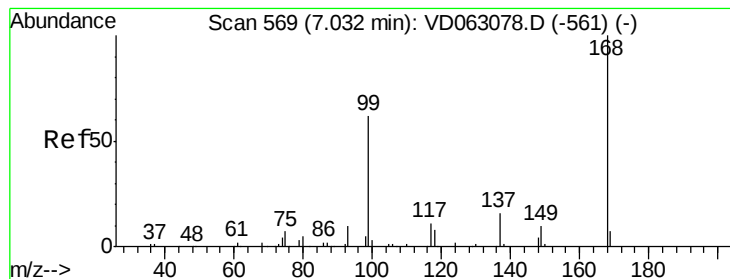
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063184.D

Acq: 22 Jul 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

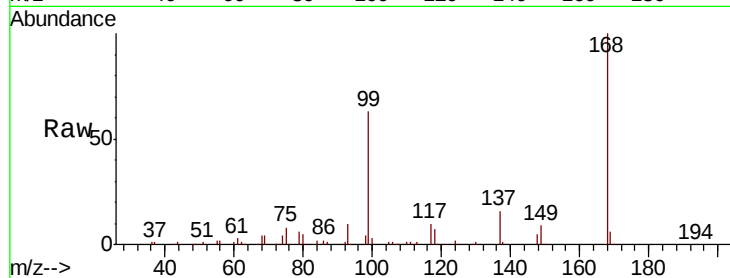
FK-BPM-01-F03-G03-F03A-G03A

Tot Ion:168 Resp: 886339

Ion Ratio Lower Upper

168 100

99 62.6 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

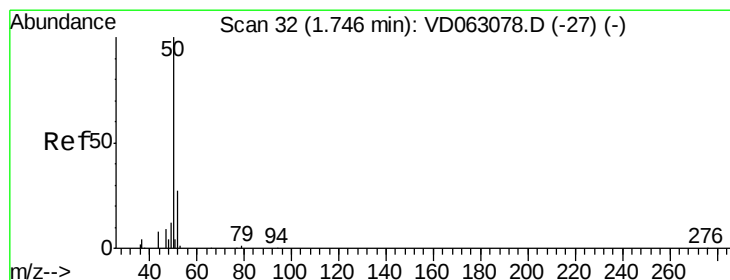
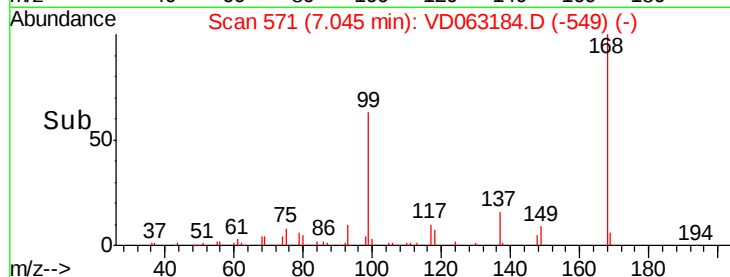
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD063184.D

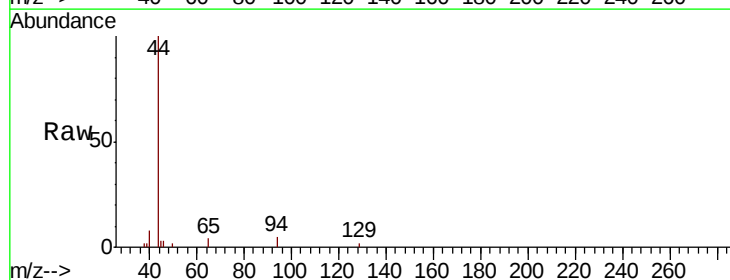
Acq: 22 Jul 2019 18:33

Tgt Ion: 50 Resp: 242

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.75

400

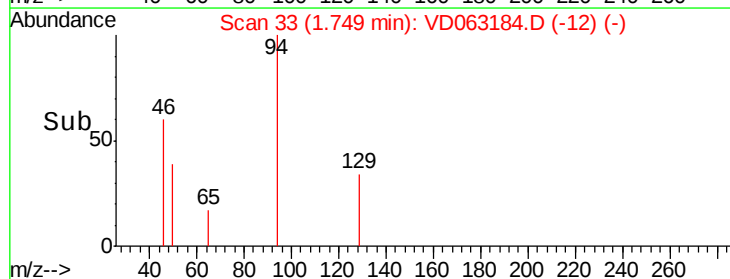
300

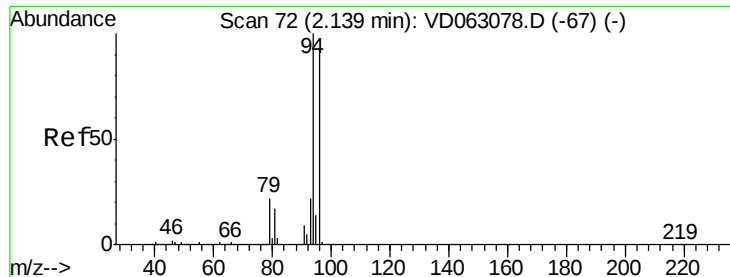
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD063184.D

Acq: 22 Jul 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-01-F03-G03-F03A-G03A

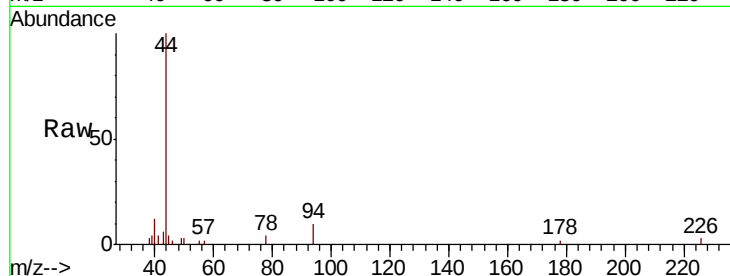
Tot Ion: 94 Resp: 4653

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

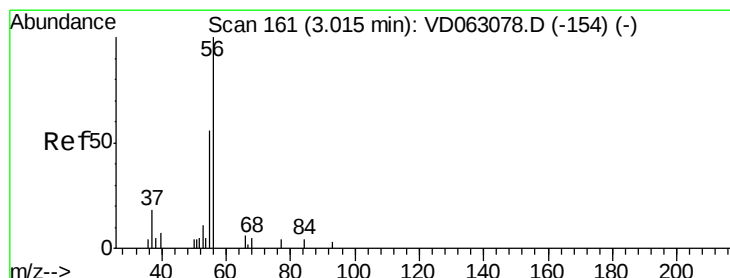
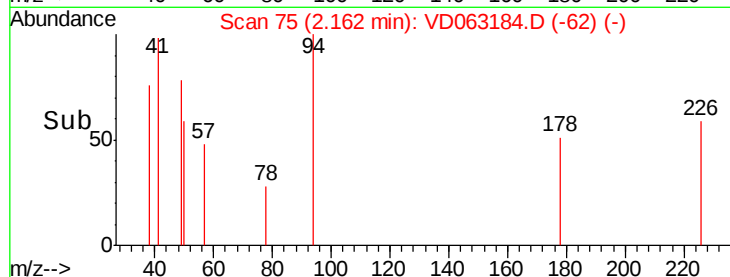
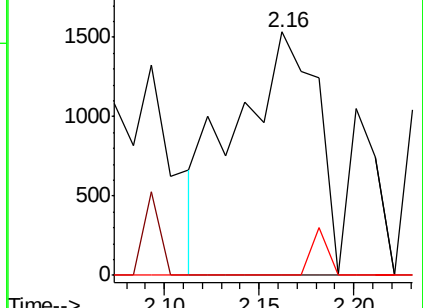
93 0.0 17.8 26.6#



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



#13

Acrolein

Concen: 1.435 ug/l

RT: 3.08 min Scan# 168

Delta R.T. 0.06 min

Lab File: VD063184.D

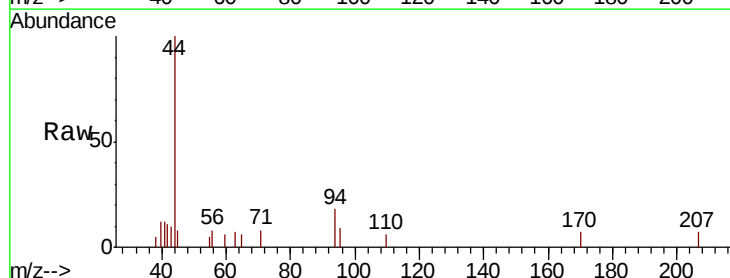
Acq: 22 Jul 2019 18:33

Tgt Ion: 56 Resp: 276

Ion Ratio Lower Upper

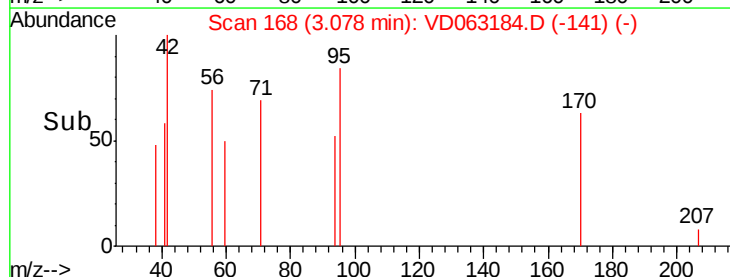
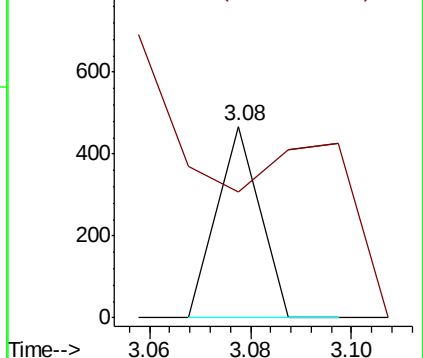
56 100

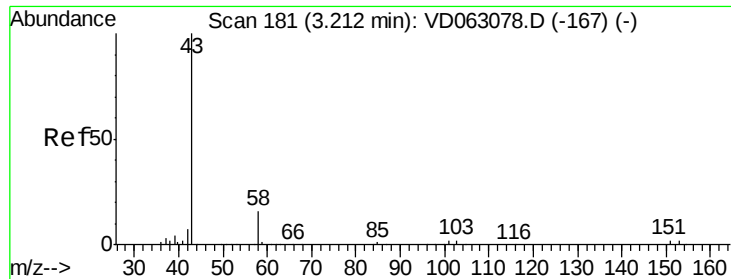
55 65.5 53.0 79.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 9.269 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063184.D

Acq: 22 Jul 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

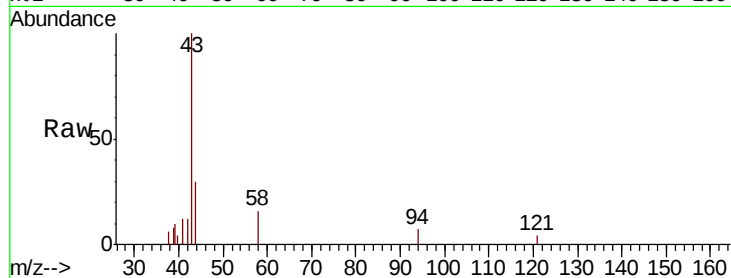
FK-BPM-01-F03-G03-F03A-G03A

Tot Ion: 43 Resp: 24718

Ion Ratio Lower Upper

43 100

58 16.0 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

8000

6000

4000

2000

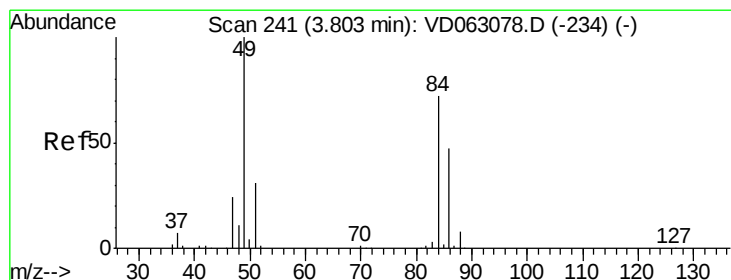
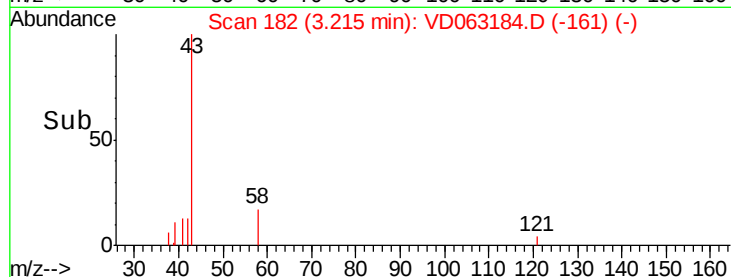
0

Time-->

3.10

3.20

3.30



#20

Methylene Chloride

Concen: 2.159 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD063184.D

Acq: 22 Jul 2019 18:33

Tgt Ion: 84 Resp: 21755

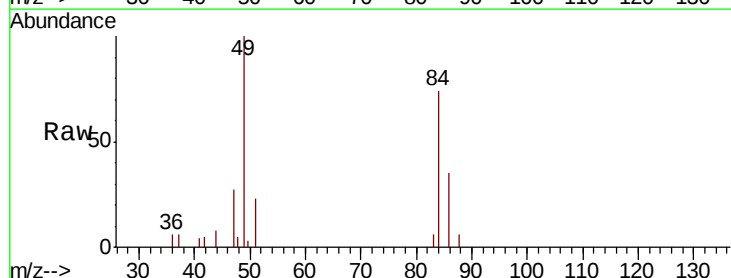
Ion Ratio Lower Upper

84 100

49 134.3 110.5 165.7

51 30.3 34.6 51.8#

86 46.9 51.6 77.4#



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

15000

10000

5000

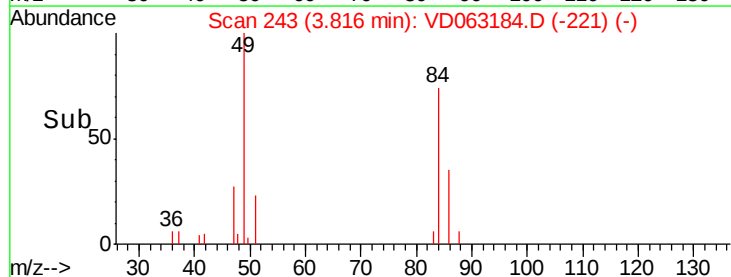
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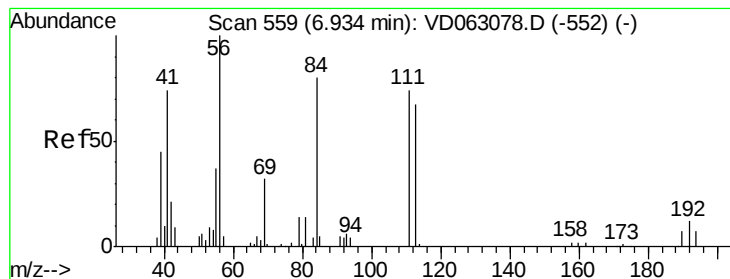
Time-->

3.70

3.80

3.90





#31

Cyclohexane

Concen: 1.662 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD063184.D

Acq: 22 Jul 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-01-F03-G03-F03A-G03A

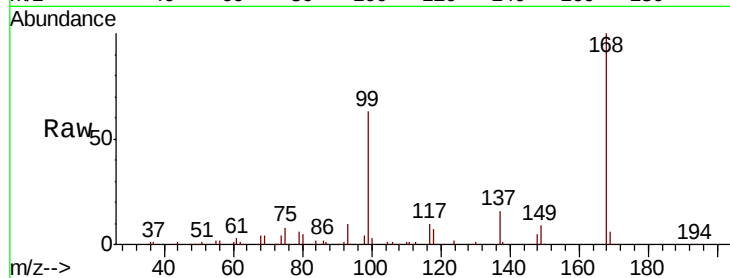
Tot Ion: 56 Resp: 17466

Ion Ratio Lower Upper

56 100

69 179.5 25.3 37.9#

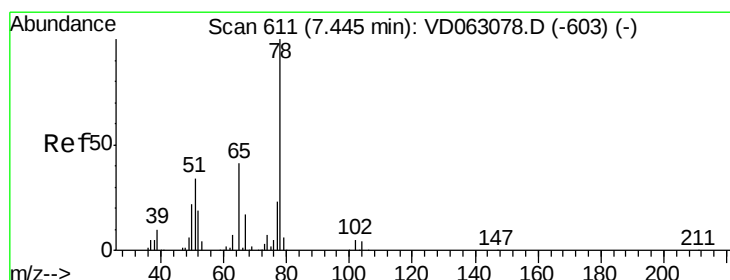
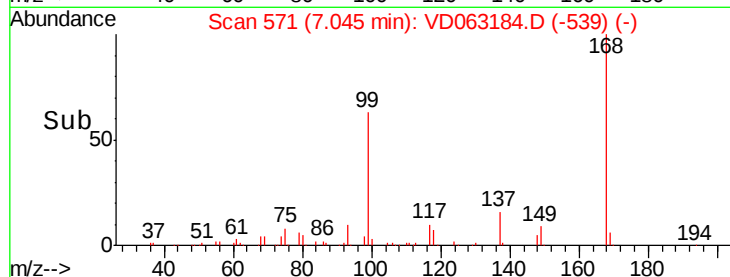
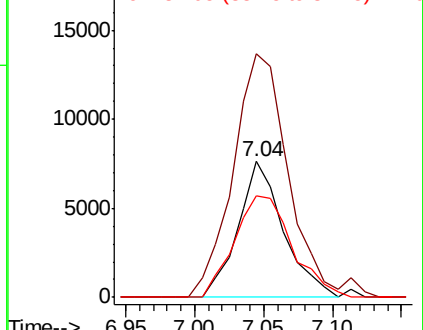
84 74.7 64.2 96.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 56.969 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD063184.D

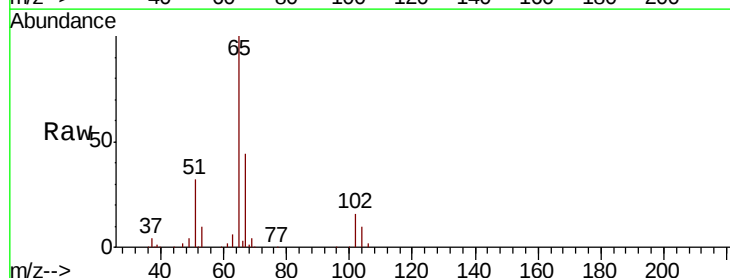
Acq: 22 Jul 2019 18:33

Tgt Ion: 65 Resp: 629001

Ion Ratio Lower Upper

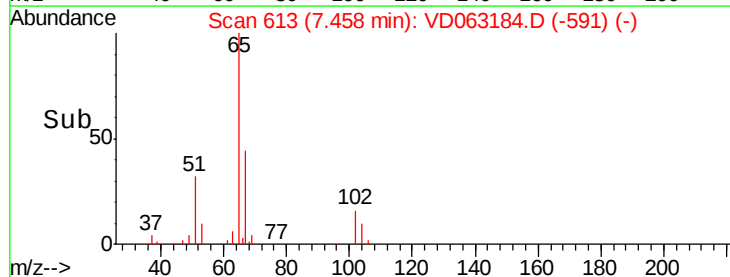
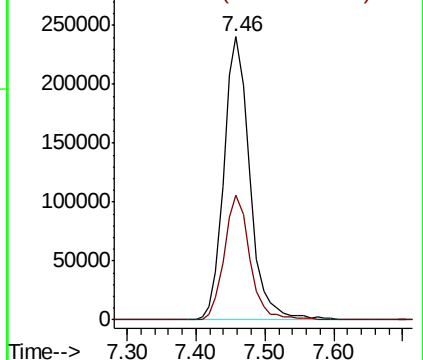
65 100

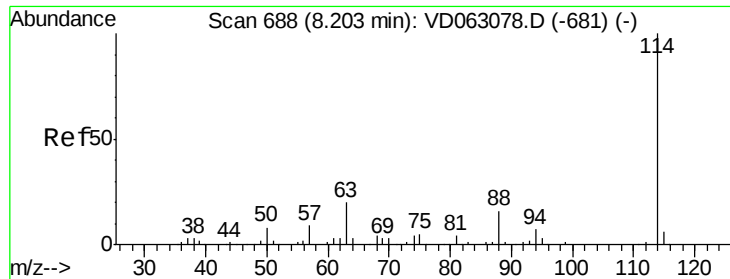
67 43.9 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

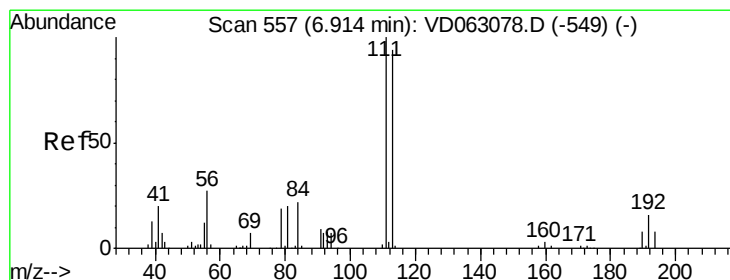
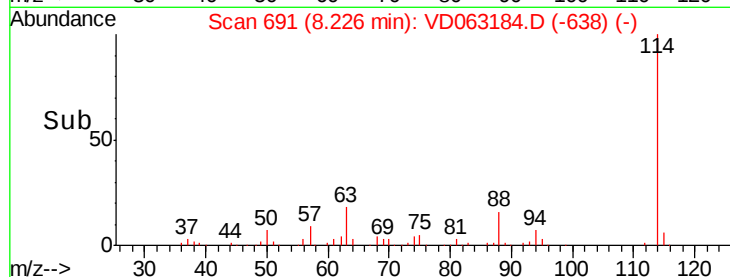
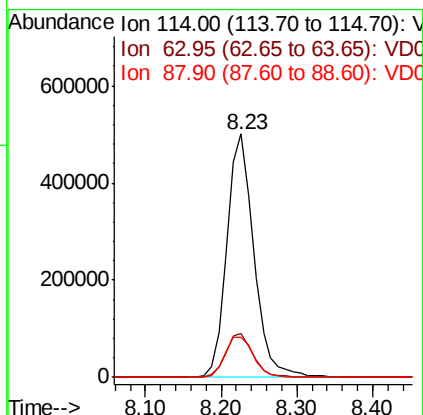
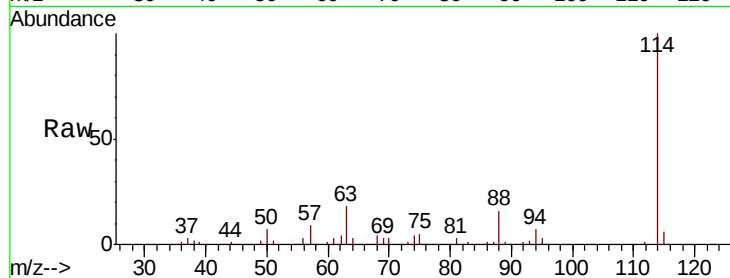




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD063184.D
 Acq: 22 Jul 2019 18:33

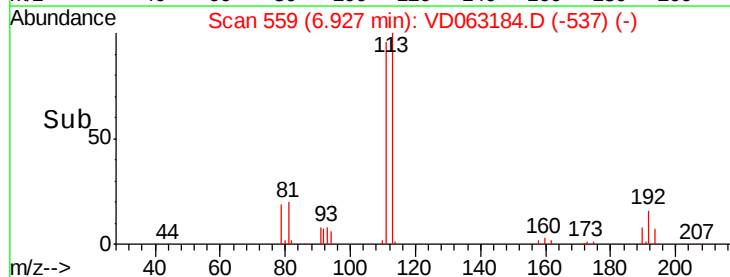
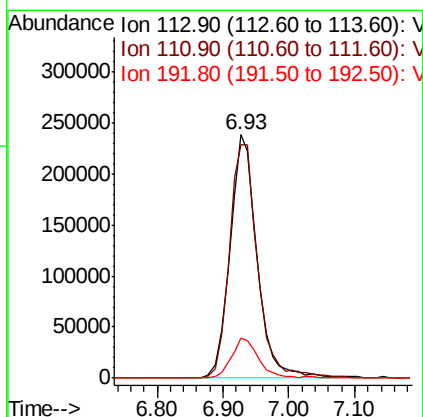
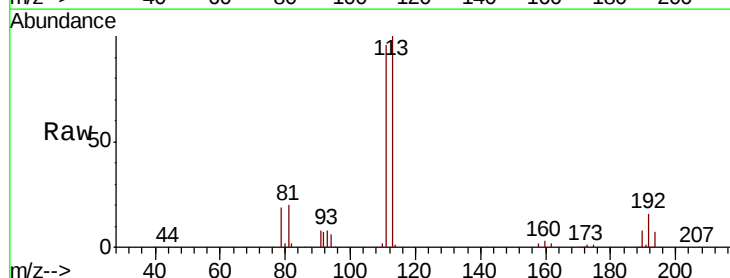
Instrument :
 MSVOA_D
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 FK-BPM-01-F03-G03-F03A-G03A

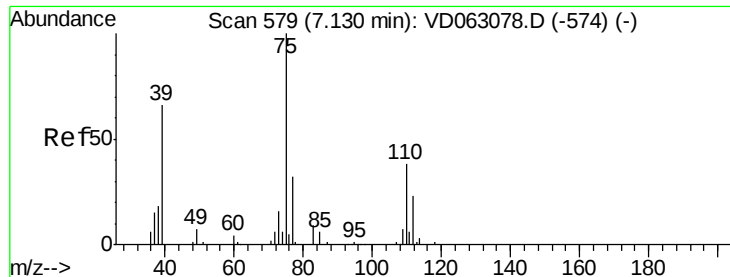
Tot Ion:114 Resp: 1233428
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 40.6
 88 16.4 0.0 32.6



#35
 Dibromofluoromethane
 Concen: 55.892 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD063184.D
 Acq: 22 Jul 2019 18:33

Tgt Ion:113 Resp: 686650
 Ion Ratio Lower Upper
 113 100
 111 96.1 84.8 127.2
 192 16.2 13.4 20.0





#36

1,1-Dichloropropene

Concen: 4.751 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD063184.D

Acq: 22 Jul 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-01-F03-G03-F03A-G03A

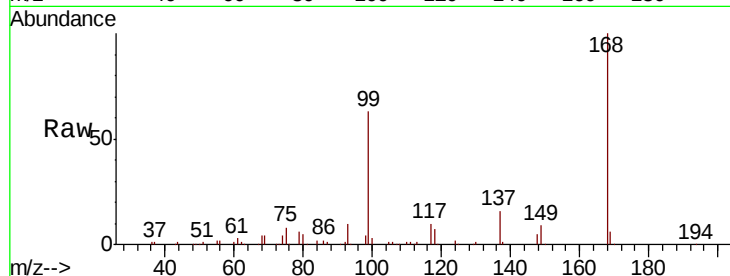
Tot Ion: 75 Resp: 65908

Ion Ratio Lower Upper

75 100

110 9.5 18.9 56.5#

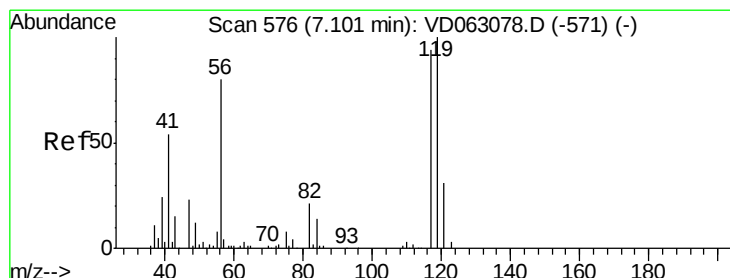
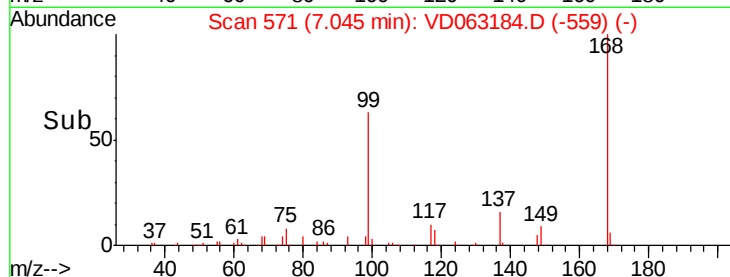
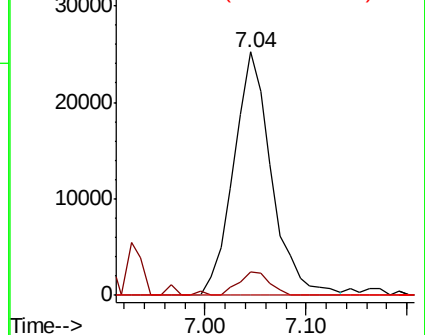
77 0.0 25.2 37.8#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 3.953 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.06 min

Lab File: VD063184.D

Acq: 22 Jul 2019 18:33

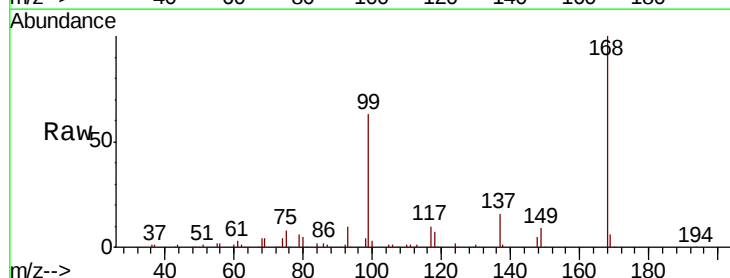
Tgt Ion: 117 Resp: 83335

Ion Ratio Lower Upper

117 100

119 3.8 80.0 120.0#

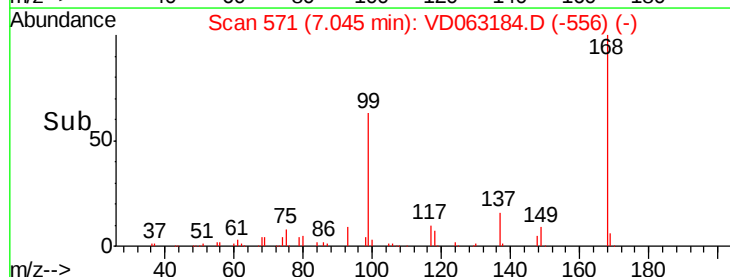
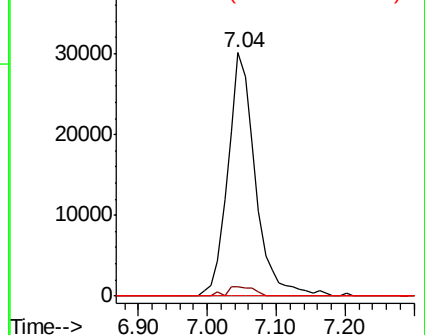
121 0.0 25.0 37.4#

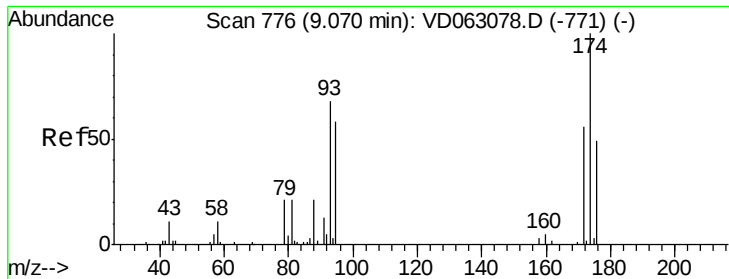


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#49

1,4-Dioxane

Concen: 3.901 ug/l

RT: 8.76 min Scan# 745

Delta R.T. -0.31 min

Lab File: VD063184.D

Acq: 22 Jul 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-01-F03-G03-F03A-G03A

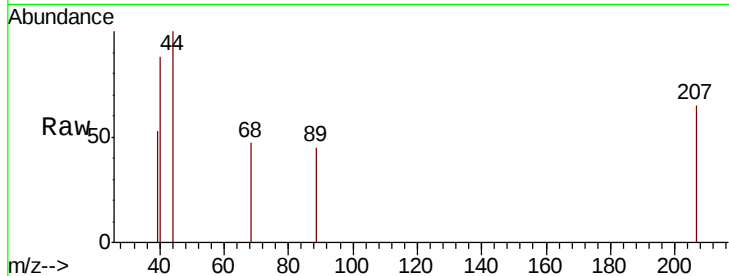
Tot Ion: 88 Resp: 188

Ion Ratio Lower Upper

88 100

43 0.0 40.2 60.4#

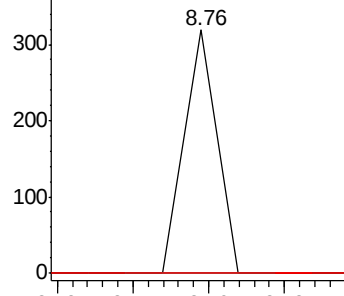
58 0.0 41.6 62.4#



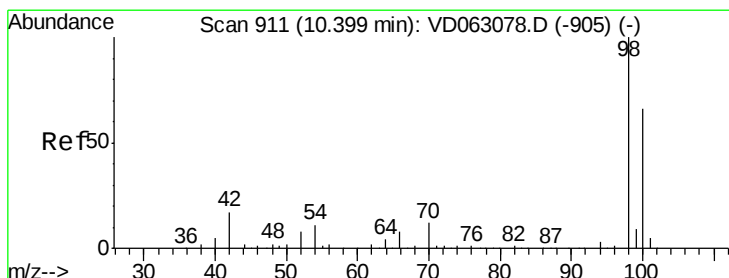
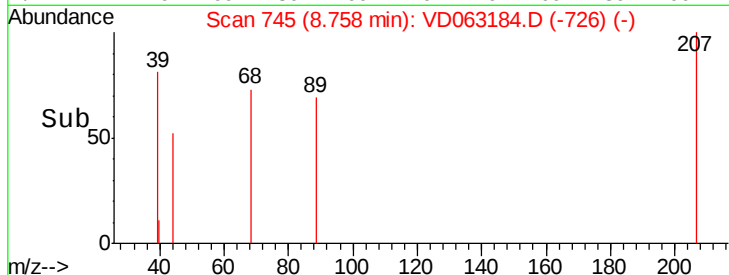
Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time--> 8.72 8.74 8.76 8.78



#50

Toluene-d8

Concen: 56.185 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD063184.D

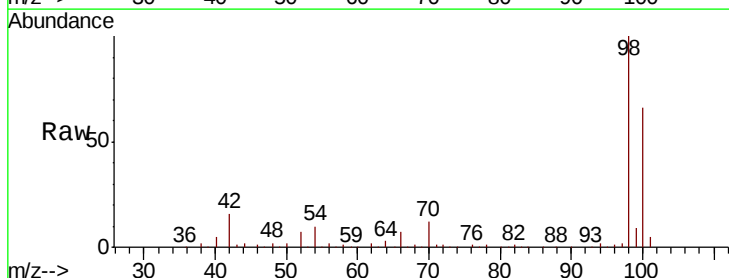
Acq: 22 Jul 2019 18:33

Tgt Ion: 98 Resp: 1482663

Ion Ratio Lower Upper

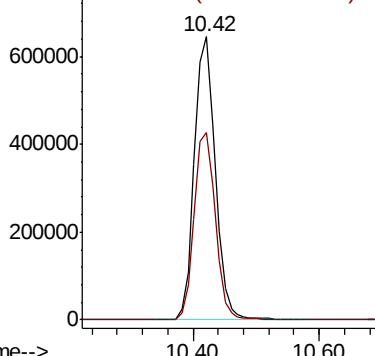
98 100

100 66.3 53.5 80.3

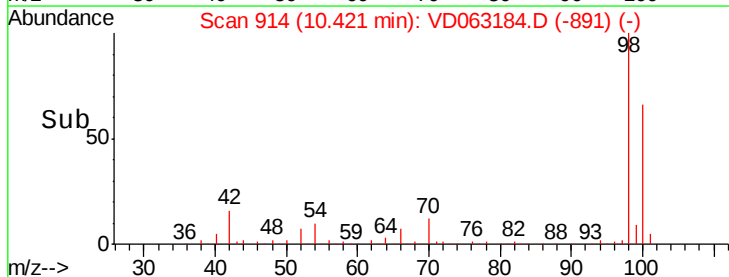


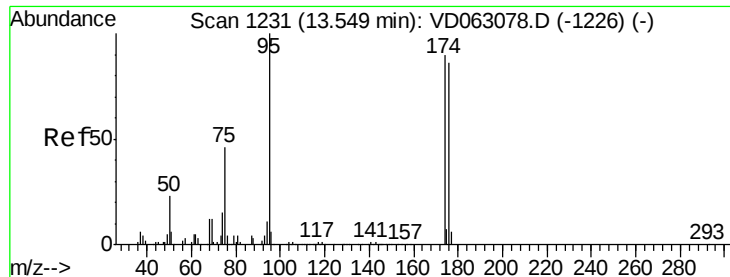
Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



Time--> 10.40 10.60

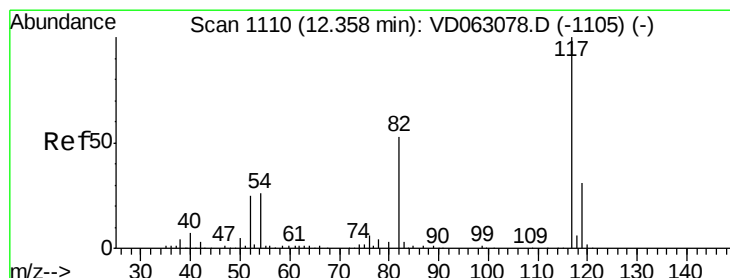
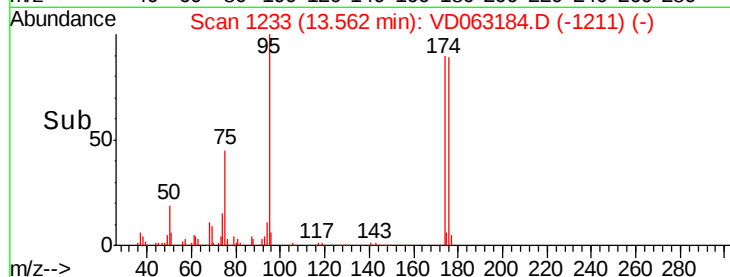
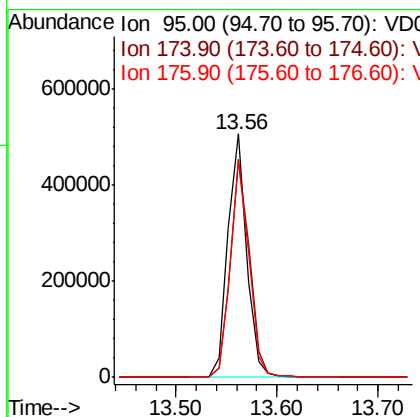
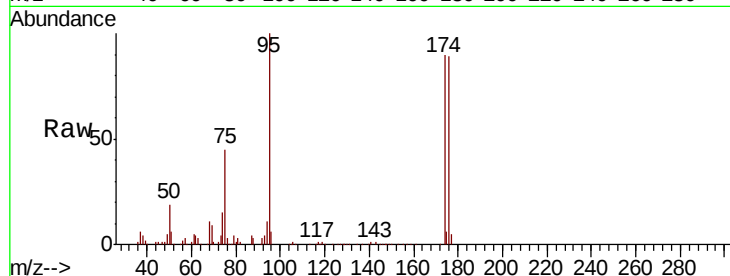




#62
4-Bromofluorobenzene
Concen: 53.364 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063184.D
Acq: 22 Jul 2019 18:33

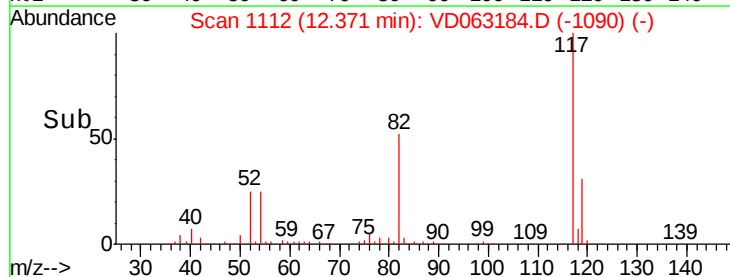
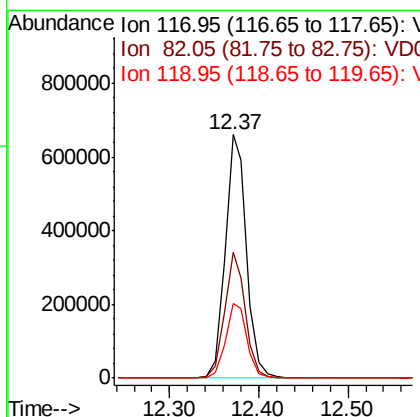
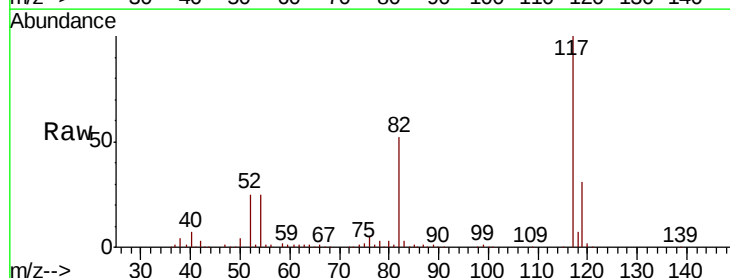
Instrument :
MSVOA_D
ClientSampleId :
FK-BPM-01-F03-G03-F03A-G03A

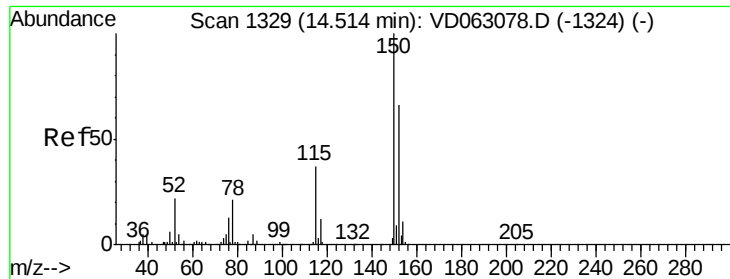
Tot Ion: 95 Resp: 651486
Ion Ratio Lower Upper
95 100
174 89.7 0.0 180.6
176 89.0 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063184.D
Acq: 22 Jul 2019 18:33

Tgt Ion: 117 Resp: 1107655
Ion Ratio Lower Upper
117 100
82 51.5 42.3 63.5
119 30.9 25.2 37.8



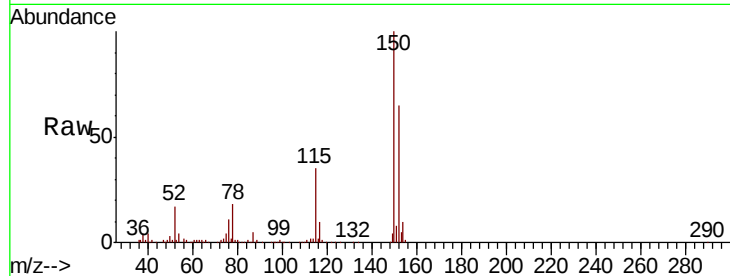


#72

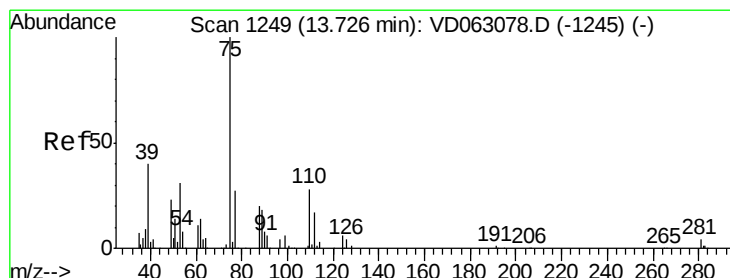
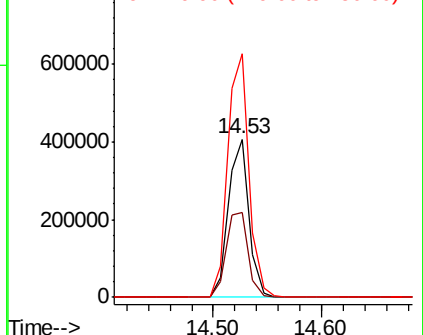
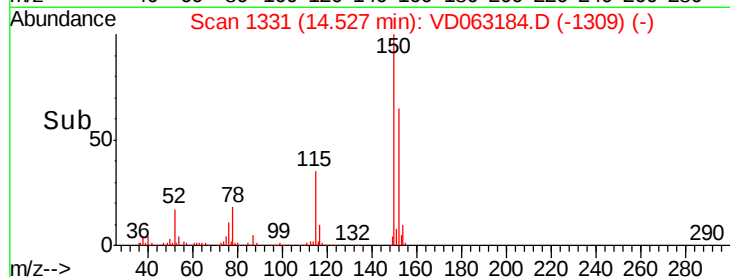
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063184.D
Acq: 22 Jul 2019 18:33

Instrument :
MSVOA_D
ClientSampleId :
FK-BPM-01-F03-G03-F03A-G03A

Tot Ion:152 Resp: 541562
Ion Ratio Lower Upper
152 100
115 53.9 28.9 86.8
150 153.9 0.0 313.8



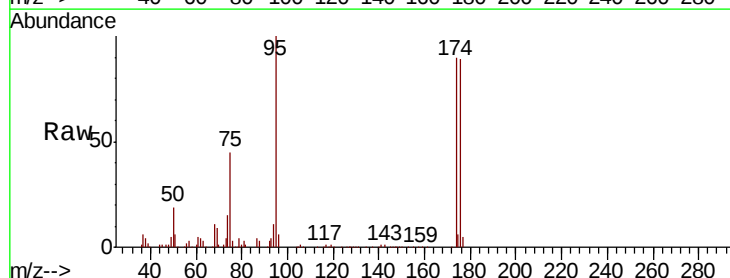
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



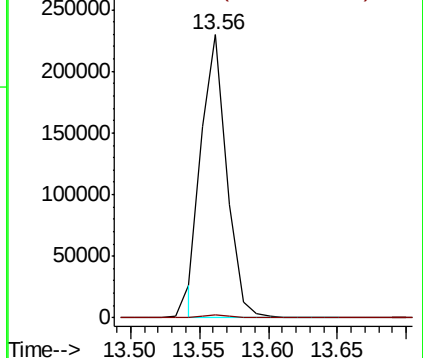
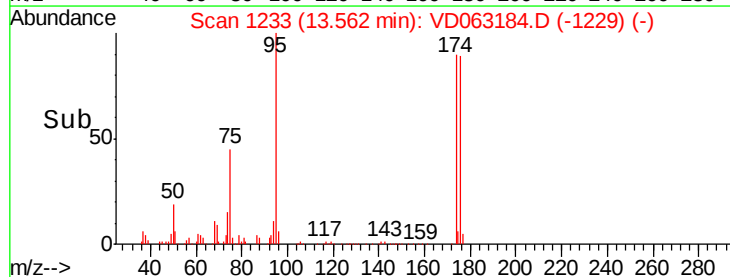
#76

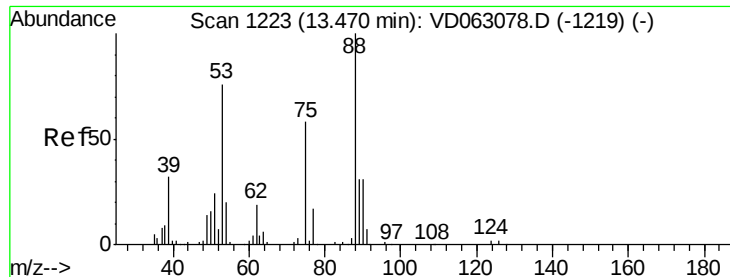
1,2,3-Trichloropropane
Concen: 35.131 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.16 min
Lab File: VD063184.D
Acq: 22 Jul 2019 18:33

Tgt Ion: 75 Resp: 292670
Ion Ratio Lower Upper
75 100
77 0.9 16.3 48.8#



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





#81

trans-1,4-Dichloro-2-butene

Concen: 140.659 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD063184.D

Acq: 22 Jul 2019 18:33

Instrument :

MSVOA_D

ClientSampleId :

FK-BPM-01-F03-G03-F03A-G03A

Tot Ion: 75 Resp: 308579

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

