

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063183.D
 Acq On : 22 Jul 2019 18:06
 Operator : VA/AP
 Sample : K3840-04
 Misc : 3.93g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-02-005-B

Quant Time: Jul 23 07:50:56 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	7.06	168	591389	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	930448	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	508678	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	125870	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	434040	58.92	ug/l	0.01
Spiked Amount	50.000		Recovery	=	117.84%	
35) Dibromofluoromethane	7.05	113	663	0.07	ug/l	0.13
Spiked Amount	50.000		Recovery	=	0.14%	
50) Toluene-d8	10.41	98	663372	33.32	ug/l	0.01
Spiked Amount	50.000		Recovery	=	66.64%	
62) 4-Bromofluorobenzene	13.56	95	182184	19.78	ug/l	0.01
Spiked Amount	50.000		Recovery	=	39.56%	

Target Compounds

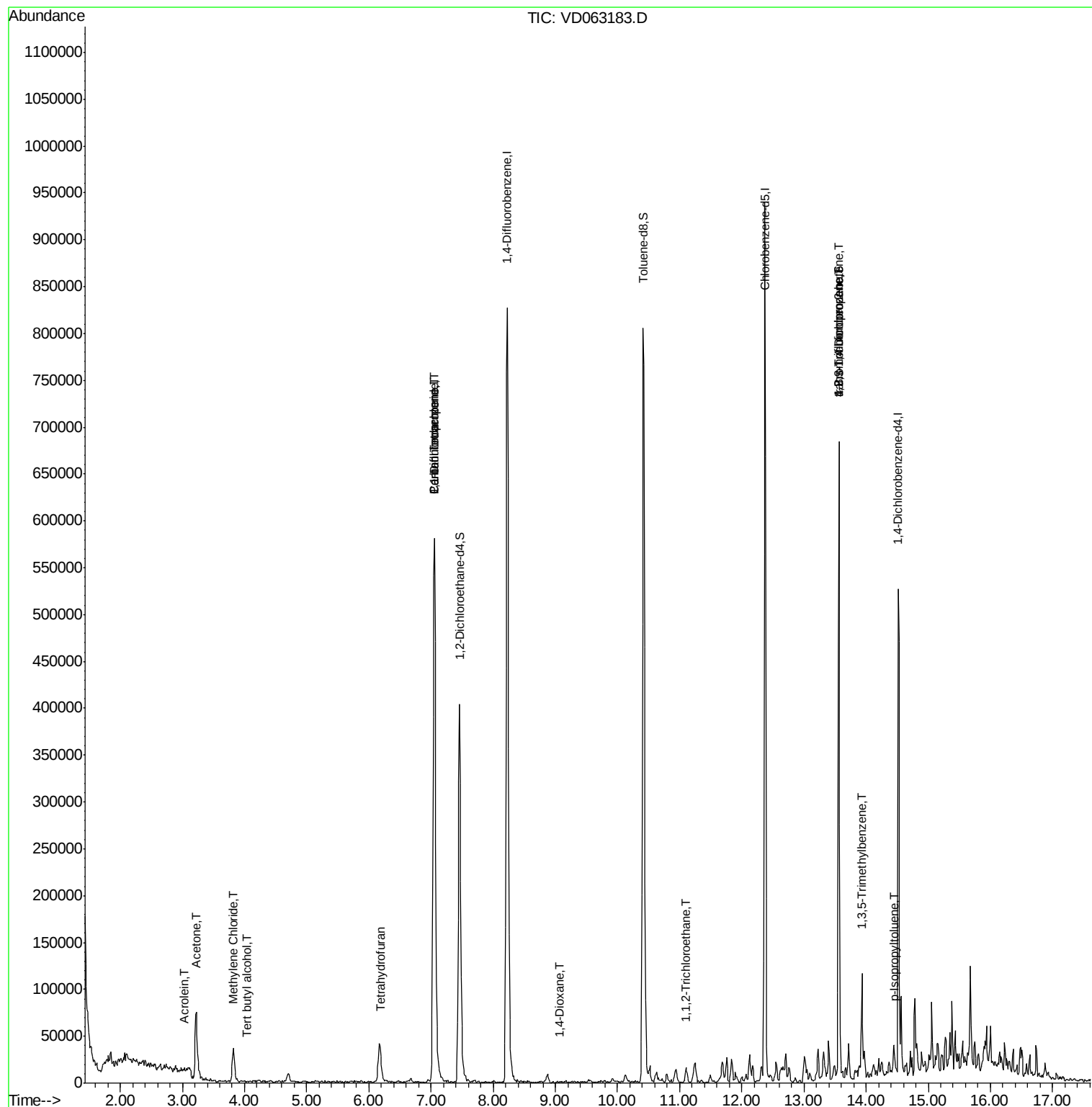
						Qvalue
2) Dichlorodifluoromethane	1.58	85	186	Below Cal	#	43
3) Chloromethane	1.74	50	324	Below Cal	#	48
5) Bromomethane	2.15	94	2342	Below Cal	#	13
11) Tert butyl alcohol	4.05	59	453	1.066	ug/l #	77
13) Acrolein	3.02	56	982	7.653	ug/l #	76
16) Acetone	3.23	43	139096	78.174	ug/l	93
18) Methyl Acetate	3.69	43	220	Below Cal	#	63
20) Methylene Chloride	3.82	84	21424	3.187	ug/l #	92
29) Tetrahydrofuran	6.20	42	1307	1.697	ug/l #	33
36) 1,1-Dichloropropene	7.05	75	43446	4.152	ug/l #	44
38) Carbon Tetrachloride	7.06	117	56814	3.573	ug/l #	14
49) 1,4-Dioxane	9.07	88	233	6.409	ug/l #	27
55) 1,1,2-Trichloroethane	11.10	97	6240	1.234	ug/l #	17
76) 1,2,3-Trichloropropane	13.56	75	76703	39.614	ug/l #	44
80) 1,3,5-Trimethylbenzene	13.94	105	45491	5.370	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.56	75	82347	161.501	ug/l #	1
86) p-Isopropyltoluene	14.45	119	11171	1.177	ug/l	85

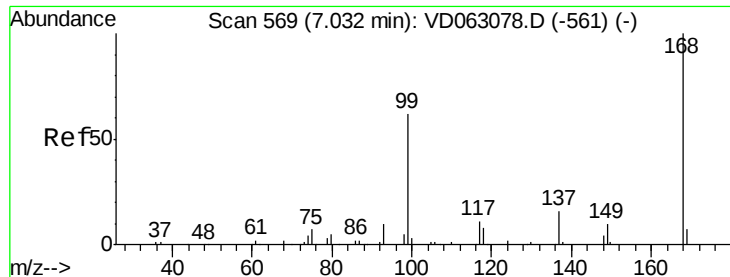
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063183.D

Acq: 22 Jul 2019 18:06

Instrument :

MSVOA_D

ClientSampleId :

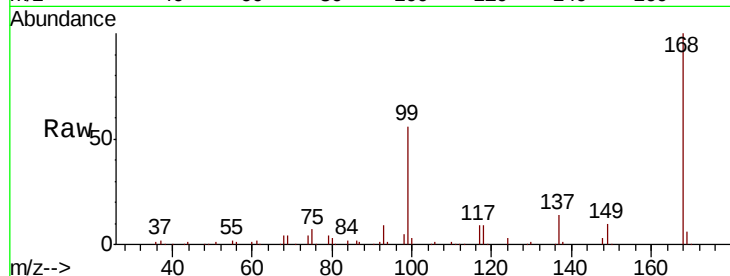
FK-SF-02-005-B

Tot Ion:168 Resp: 591389

Ion Ratio Lower Upper

168 100

99 56.0 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

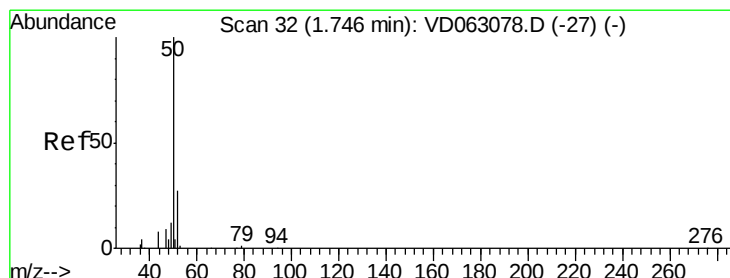
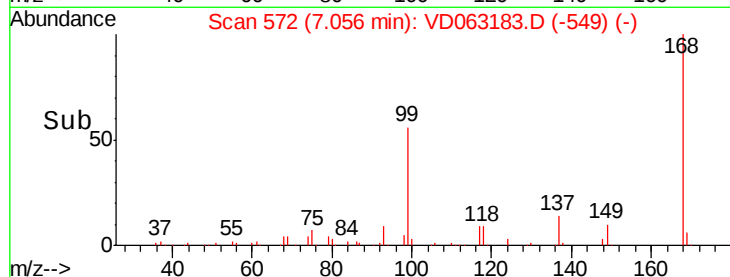
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063183.D

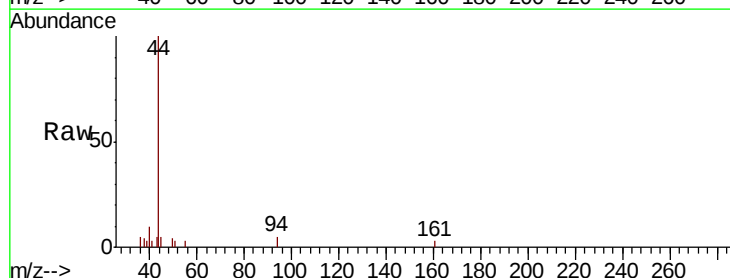
Acq: 22 Jul 2019 18:06

Tgt Ion: 50 Resp: 324

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

1.74

600

500

400

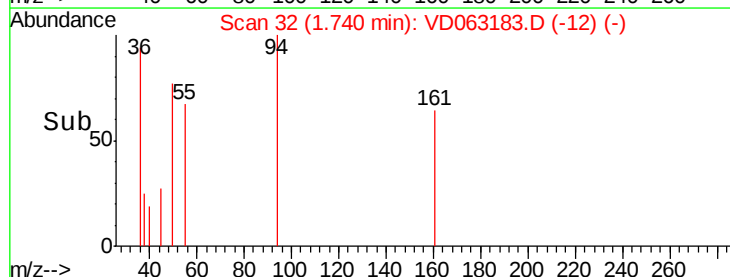
300

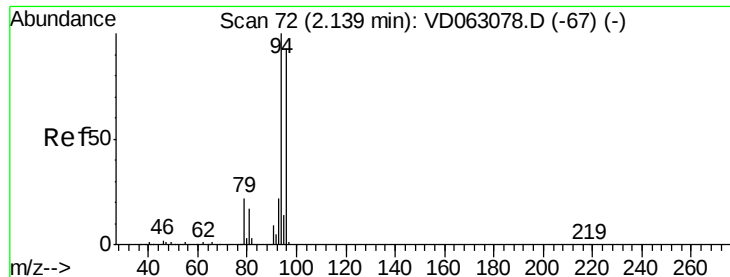
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD063183.D

Acq: 22 Jul 2019 18:06

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-02-005-B

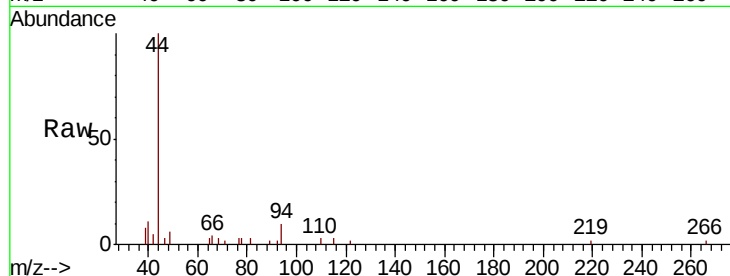
Tot Ion: 94 Resp: 2342

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

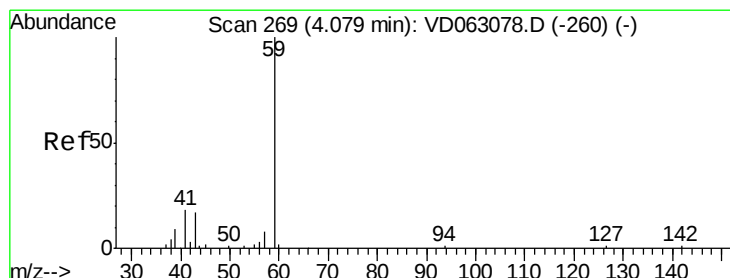
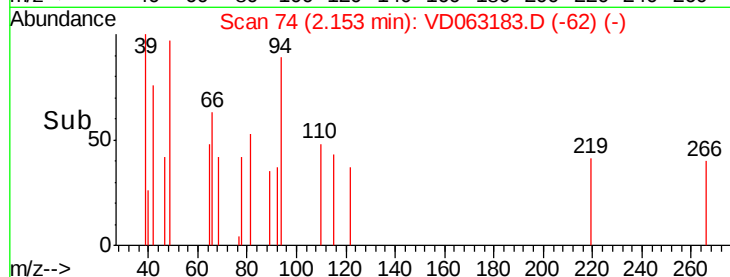
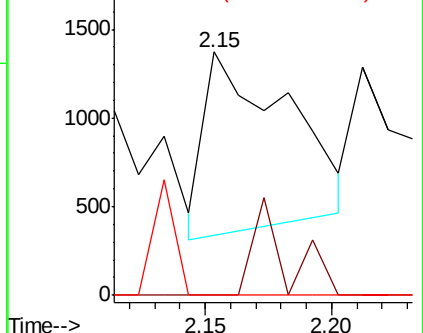
93 0.0 17.8 26.6#



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



#11

Tert butyl alcohol

Concen: 1.066 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.03 min

Lab File: VD063183.D

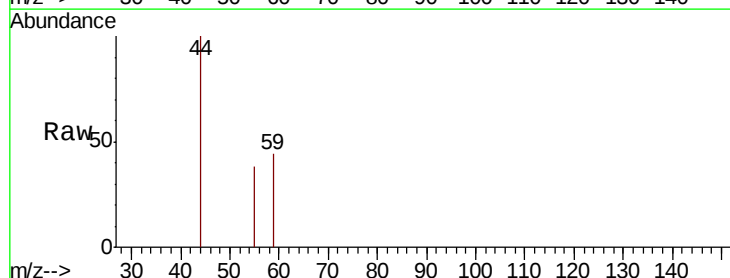
Acq: 22 Jul 2019 18:06

Tgt Ion: 59 Resp: 453

Ion Ratio Lower Upper

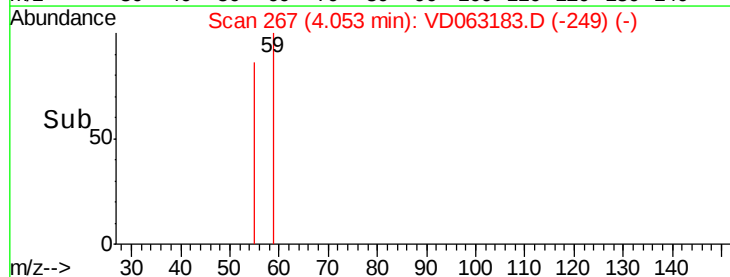
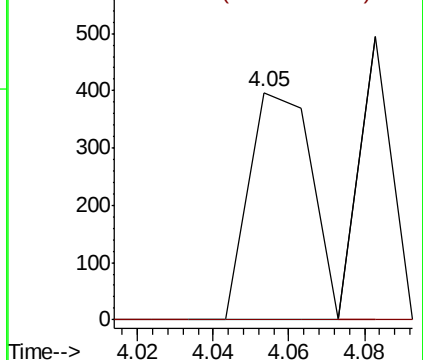
59 100

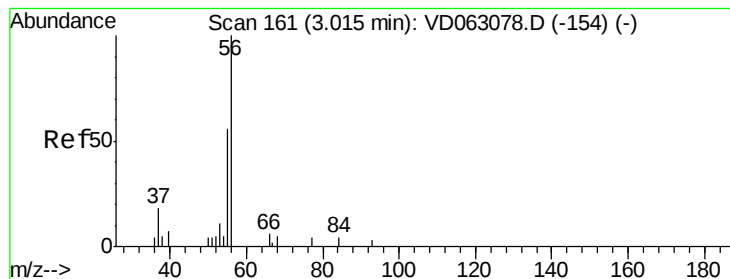
57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 7.653 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD063183.D

Acq: 22 Jul 2019 18:06

Instrument :

MSVOA_D

ClientSampleId :

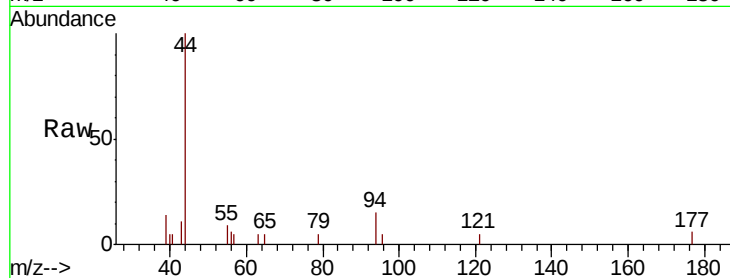
FK-SF-02-005-B

Tot Ion: 56 Resp: 982

Ion Ratio Lower Upper

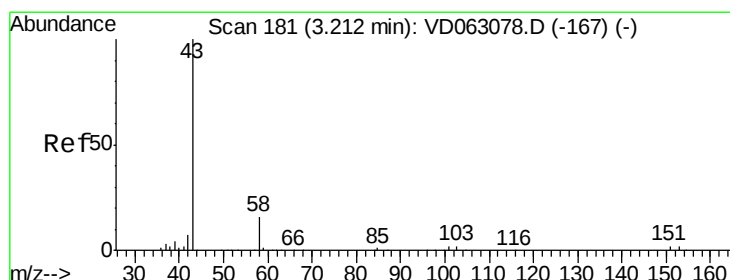
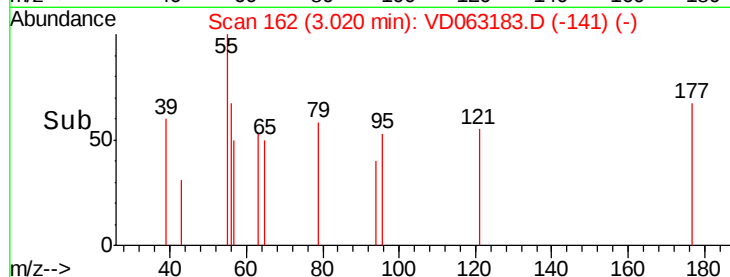
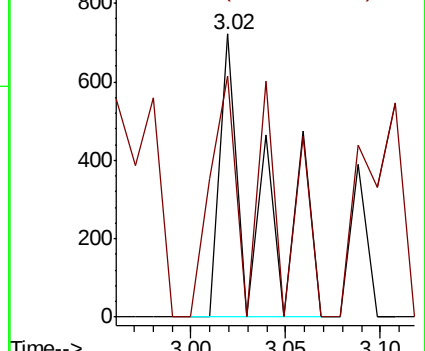
56 100

55 85.2 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: 78.174 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063183.D

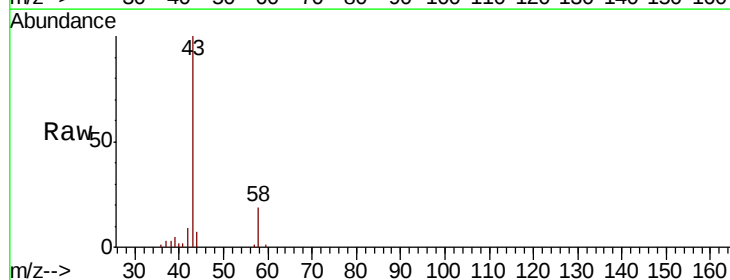
Acq: 22 Jul 2019 18:06

Tgt Ion: 43 Resp: 139096

Ion Ratio Lower Upper

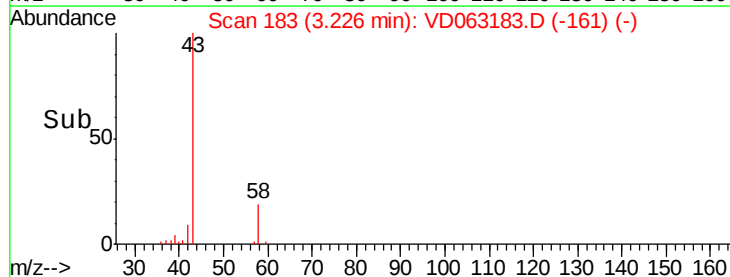
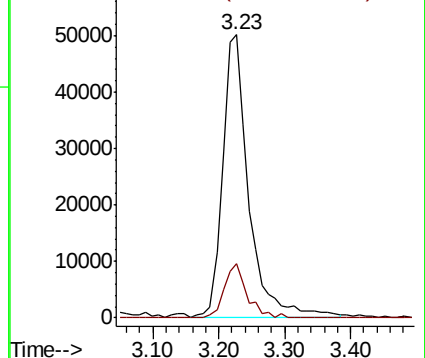
43 100

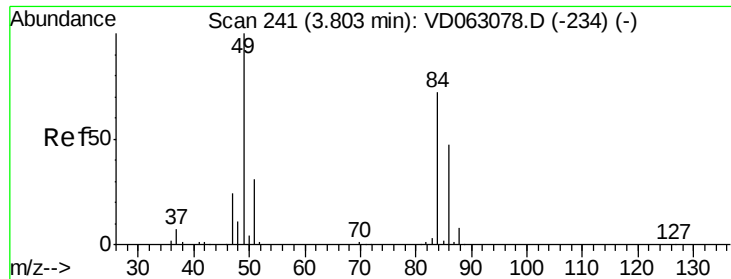
58 19.2 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

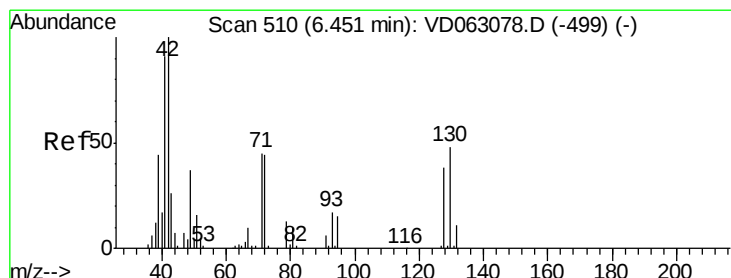
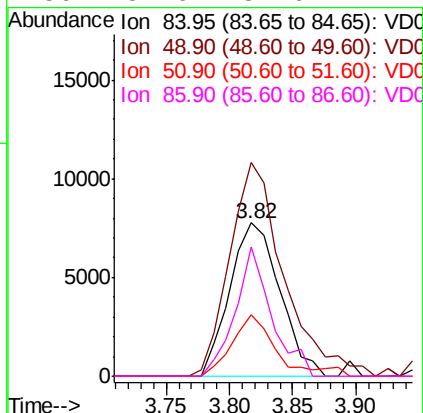
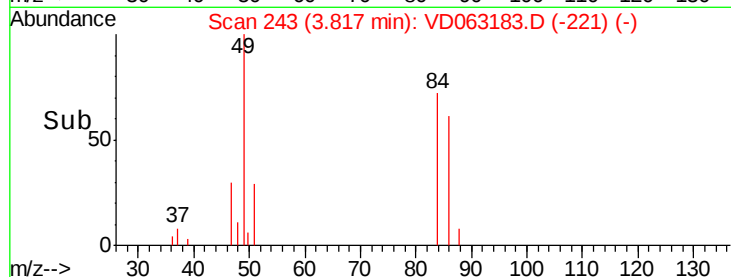
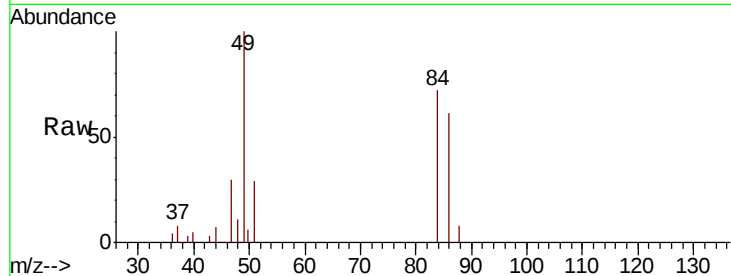




#20
Methvlene Chloride
Concen: 3.187 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD063183.D
Acq: 22 Jul 2019 18:06

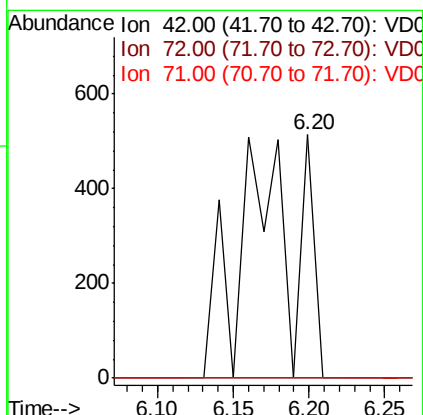
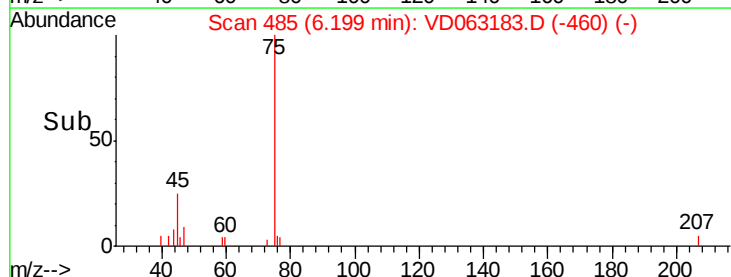
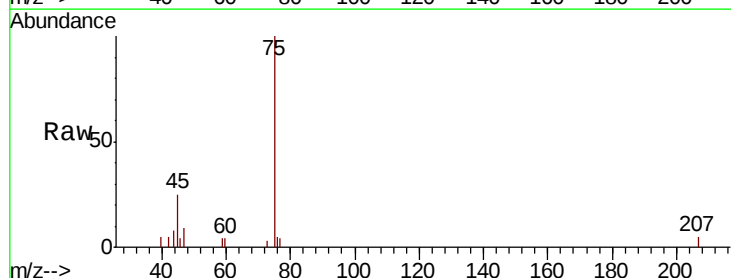
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-02-005-B

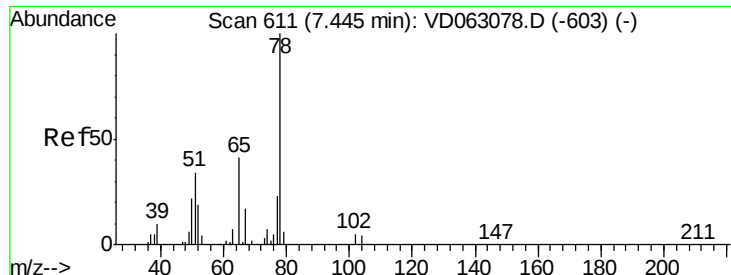
Tot Ion: 84 Resp: 21424
Ion Ratio Lower Upper
84 100
49 139.2 110.5 165.7
51 39.9 34.6 51.8
86 84.6 51.6 77.4#



#29
Tetrahydrofuran
Concen: 1.697 ug/l
RT: 6.20 min Scan# 485
Delta R.T. -0.25 min
Lab File: VD063183.D
Acq: 22 Jul 2019 18:06

Tgt Ion: 42 Resp: 1307
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 34.2 51.2#





#33

1,2-Dichloroethane-d4

Concen: 58.918 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD063183.D

Acq: 22 Jul 2019 18:06

Instrument :

MSVOA_D

ClientSampleId :

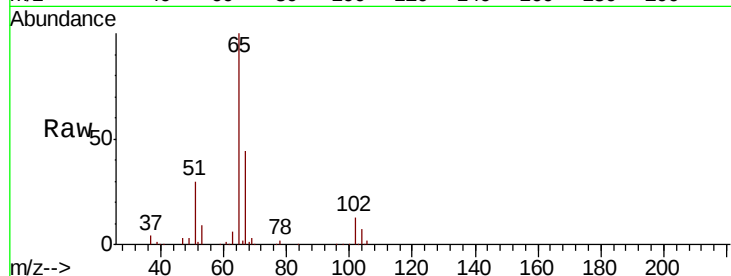
FK-SF-02-005-B

Tot Ion: 65 Resp: 434040

Ion Ratio Lower Upper

65 100

67 43.5 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

150000

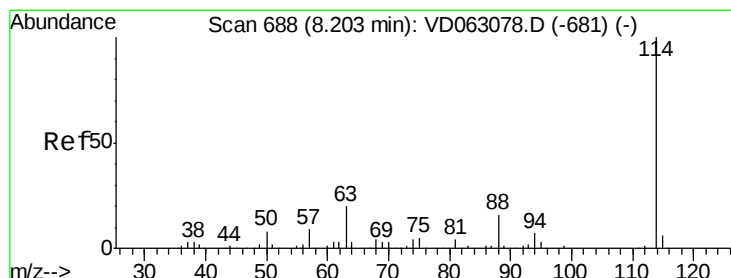
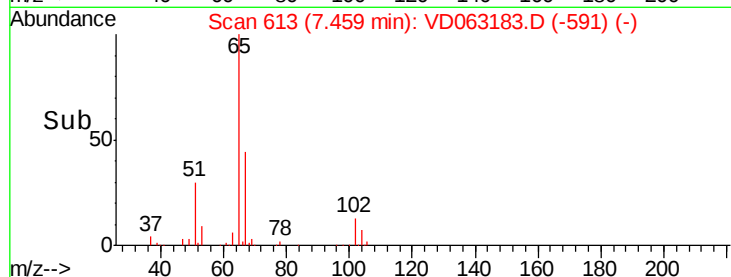
100000

50000

0

Time-->

7.30 7.40 7.50 7.60 7.70



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063183.D

Acq: 22 Jul 2019 18:06

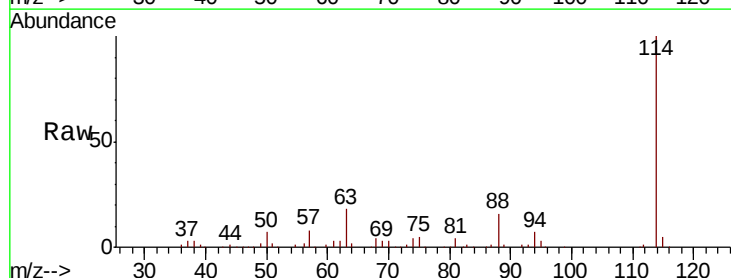
Tgt Ion: 114 Resp: 930448

Ion Ratio Lower Upper

114 100

63 18.1 0.0 40.6

88 16.3 0.0 32.6



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

500000

400000

300000

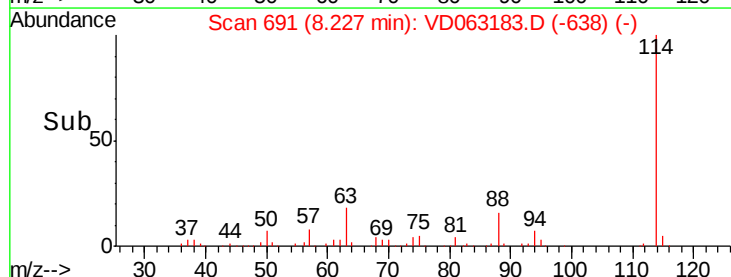
200000

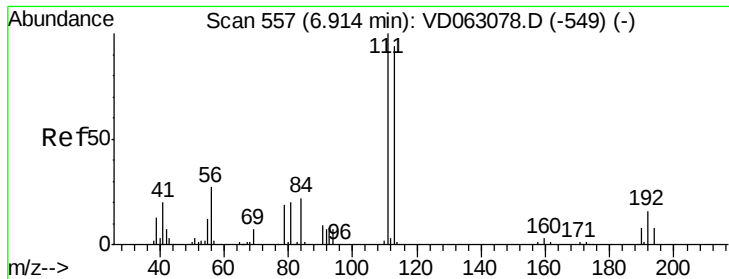
100000

0

Time-->

8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 0.072 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.13 min

Lab File: VD063183.D

Acq: 22 Jul 2019 18:06

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-02-005-B

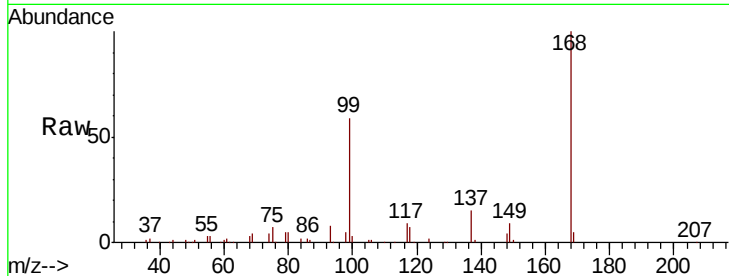
Tot Ion:113 Resp: 663

Ion Ratio Lower Upper

113 100

111 0.0 84.8 127.2#

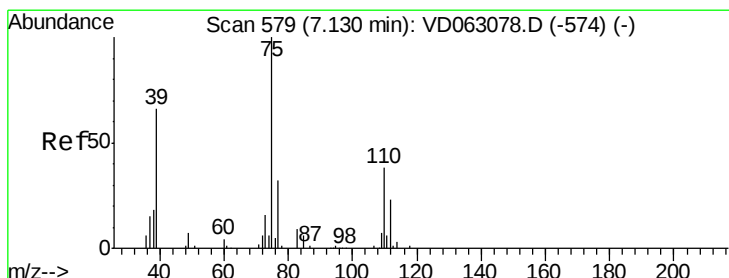
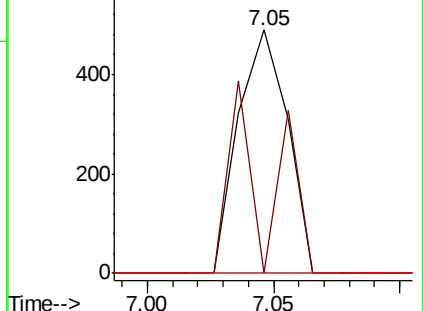
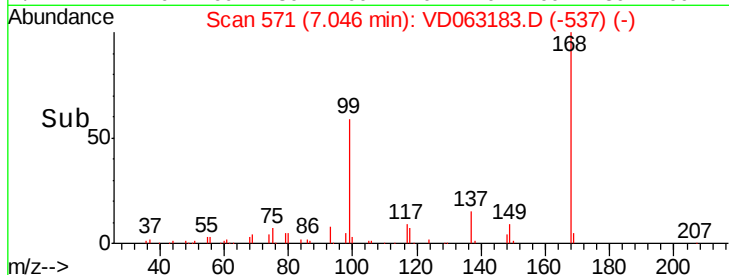
192 0.0 13.4 20.0#



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: 4.152 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063183.D

Acq: 22 Jul 2019 18:06

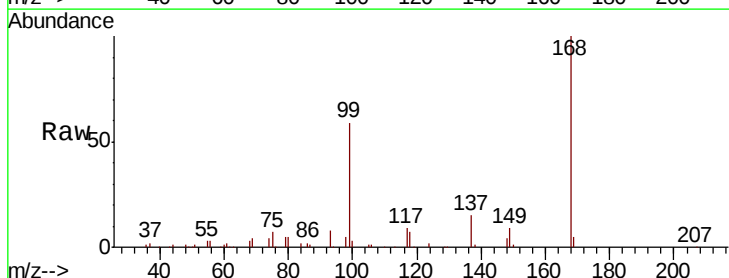
Tgt Ion: 75 Resp: 43446

Ion Ratio Lower Upper

75 100

110 4.7 18.9 56.5#

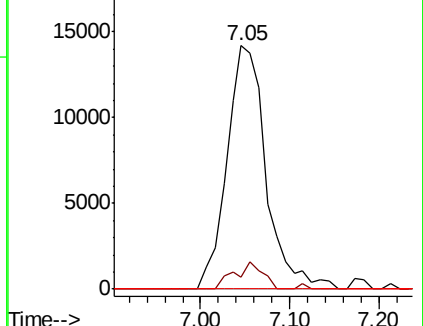
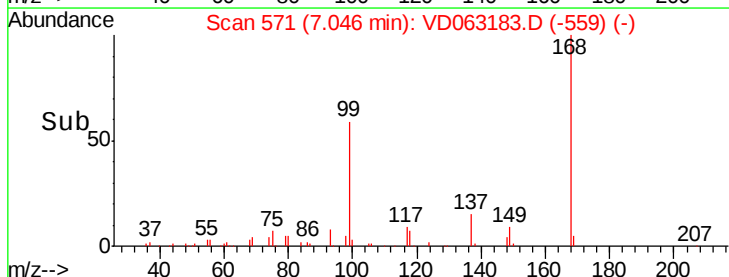
77 0.0 25.2 37.8#

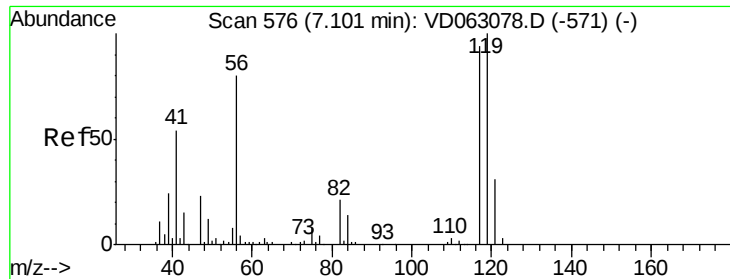


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

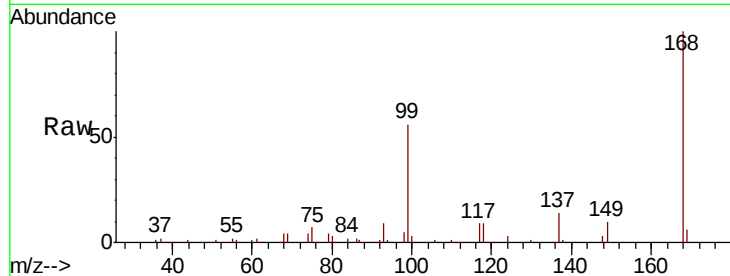




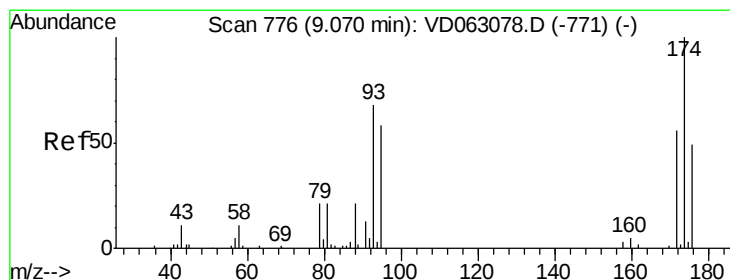
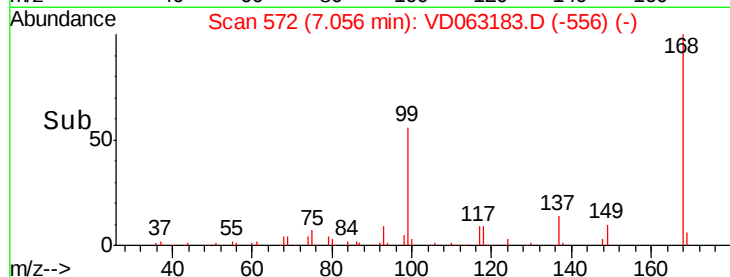
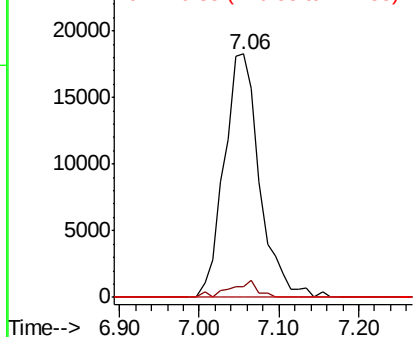
#38
Carbon Tetrachloride
Concen: 3.573 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.05 min
Lab File: VD063183.D
Acq: 22 Jul 2019 18:06

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-02-005-B

Tot Ion:117 Resp: 56814
Ion Ratio Lower Upper
117 100
119 4.4 80.0 120.0#
121 0.0 25.0 37.4#

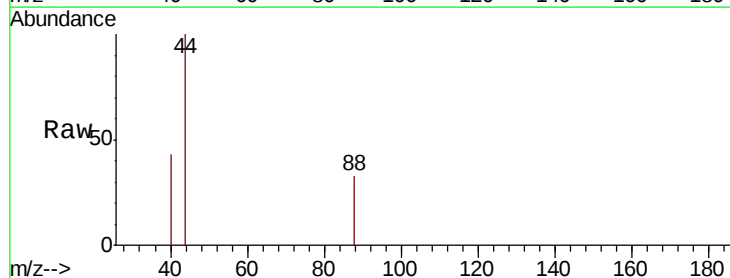


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

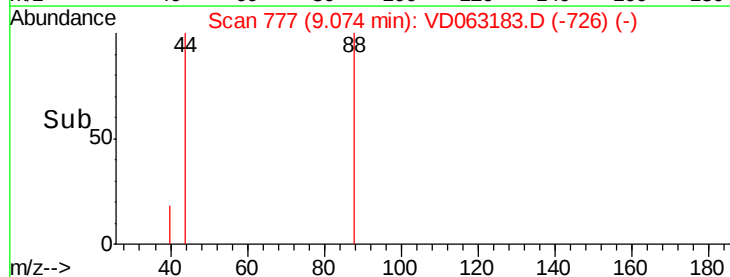
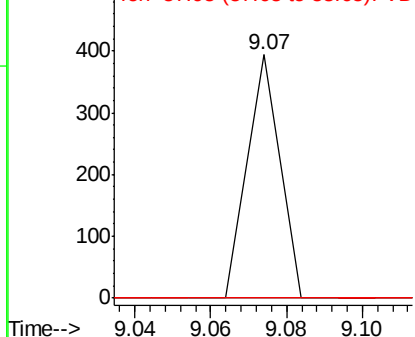


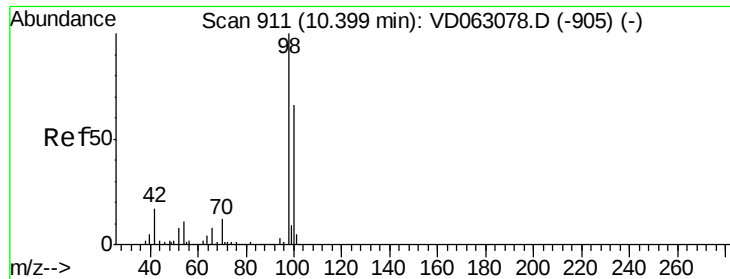
#49
1,4-Dioxane
Concen: 6.409 ug/l
RT: 9.07 min Scan# 777
Delta R.T. 0.00 min
Lab File: VD063183.D
Acq: 22 Jul 2019 18:06

Tgt Ion: 88 Resp: 233
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

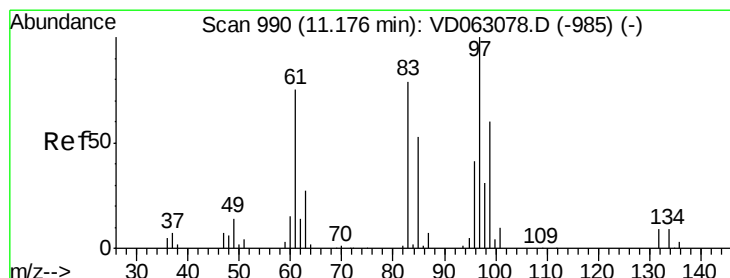
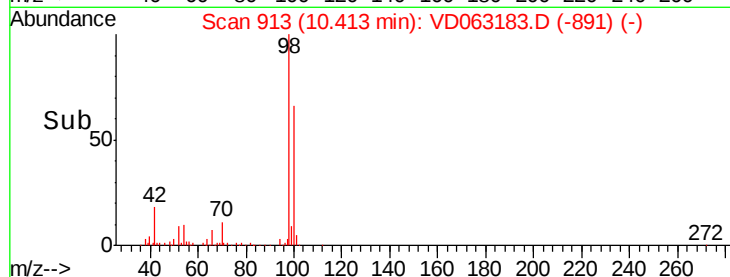
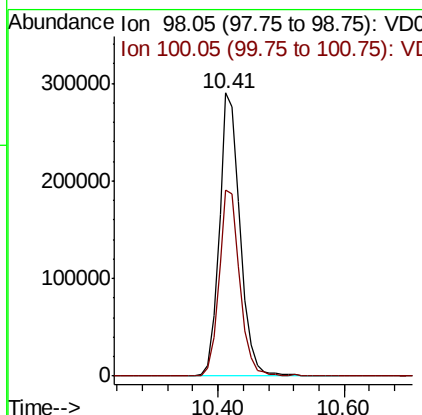
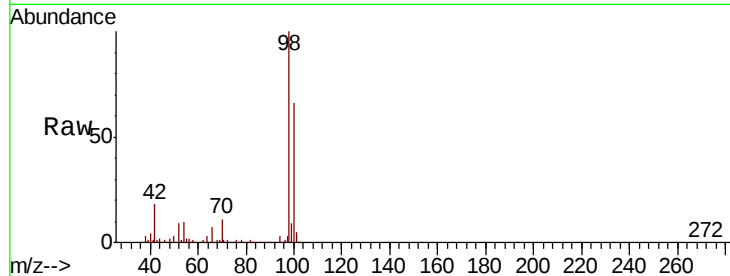




#50
Toluene-d8
Concen: 33.324 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063183.D
Acq: 22 Jul 2019 18:06

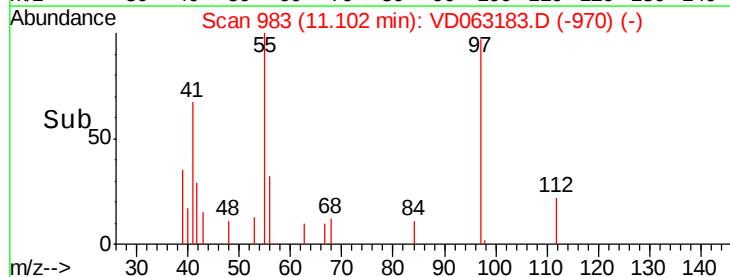
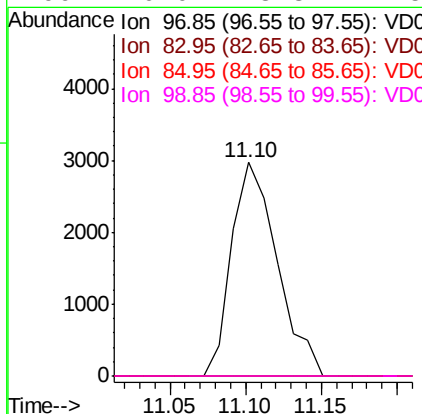
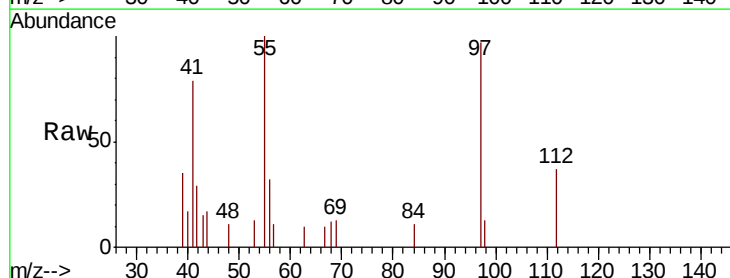
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-02-005-B

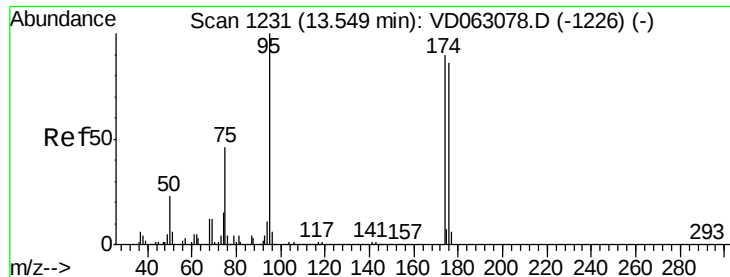
Tot Ion: 98 Resp: 663372
Ion Ratio Lower Upper
98 100
100 65.8 53.5 80.3



#55
1,1,2-Trichloroethane
Concen: 1.234 ug/l
RT: 11.10 min Scan# 983
Delta R.T. -0.07 min
Lab File: VD063183.D
Acq: 22 Jul 2019 18:06

Tgt Ion: 97 Resp: 6240
Ion Ratio Lower Upper
97 100
83 0.0 63.2 94.8#
85 0.0 42.0 63.0#
99 0.0 48.3 72.5#





#62

4-Bromofluorobenzene

Concen: 19.782 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063183.D

Acq: 22 Jul 2019 18:06

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-02-005-B

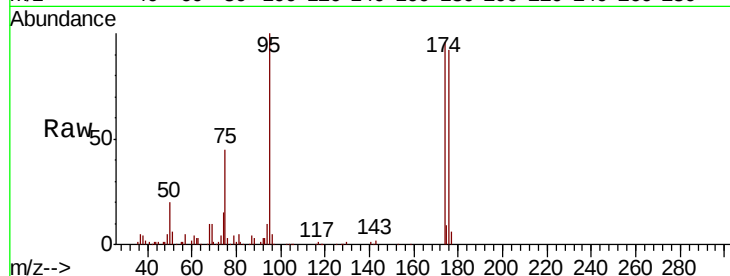
Tot Ion: 95 Resp: 182184

Ion Ratio Lower Upper

95 100

174 96.0 0.0 180.6

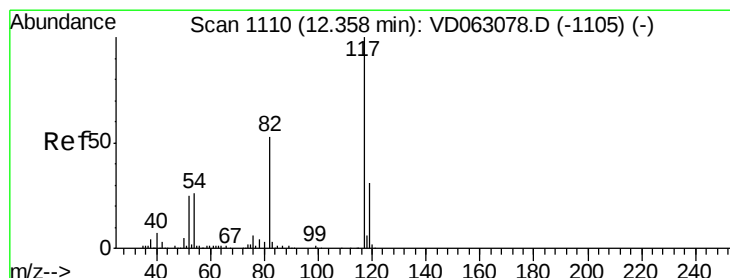
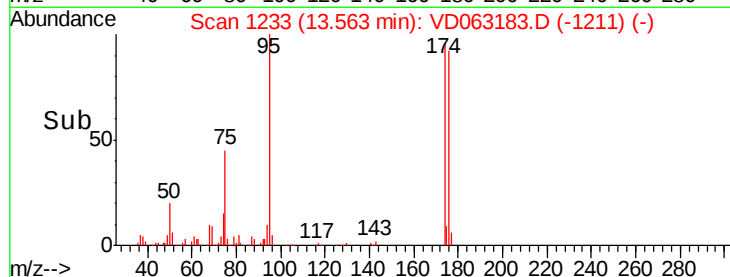
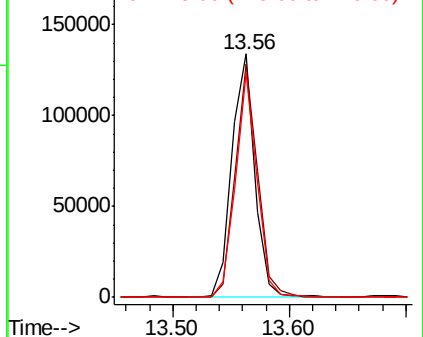
176 92.2 0.0 172.2



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# 1112

Delta R.T. 0.01 min

Lab File: VD063183.D

Acq: 22 Jul 2019 18:06

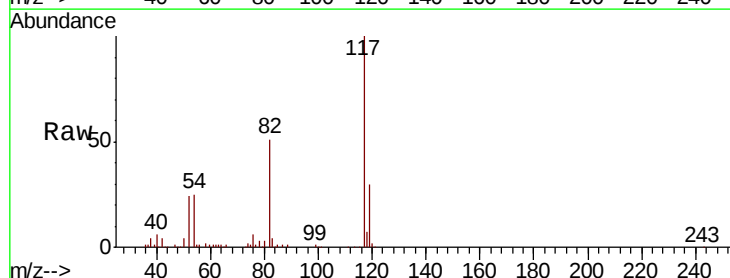
Tgt Ion: 117 Resp: 508678

Ion Ratio Lower Upper

117 100

82 50.9 42.3 63.5

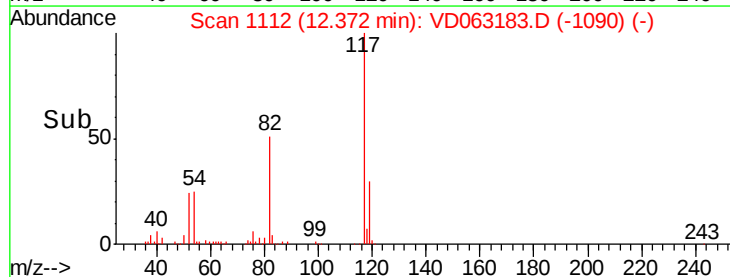
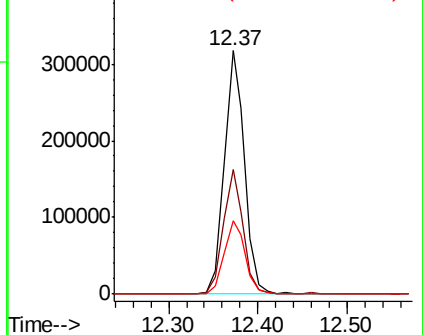
119 30.1 25.2 37.8

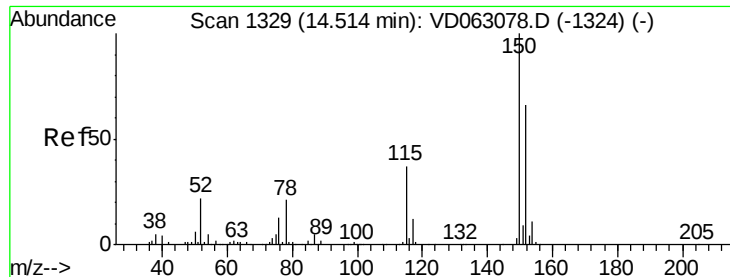


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



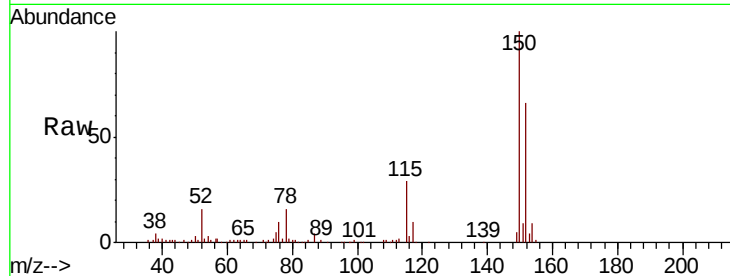


#72

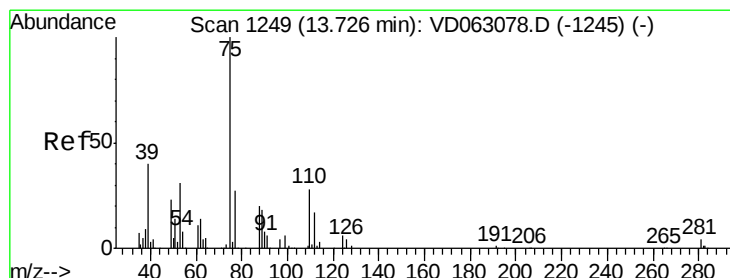
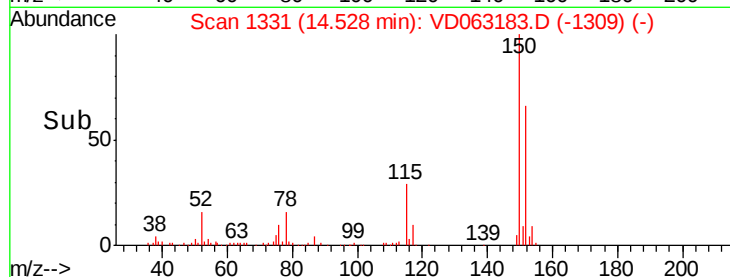
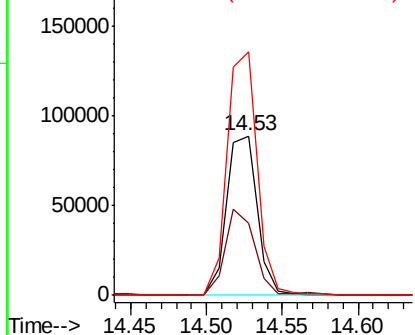
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063183.D
Acq: 22 Jul 2019 18:06

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-02-005-B

Tot Ion:152 Resp: 125870
Ion Ratio Lower Upper
152 100
115 44.9 28.9 86.8
150 152.7 0.0 313.8



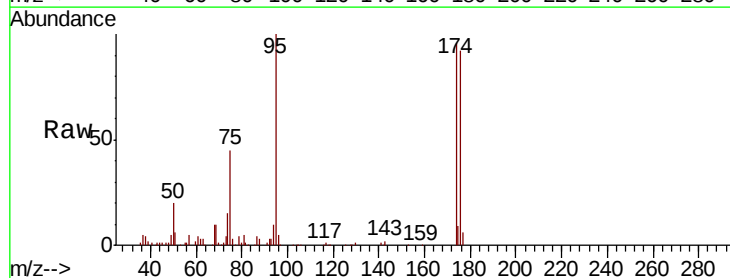
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



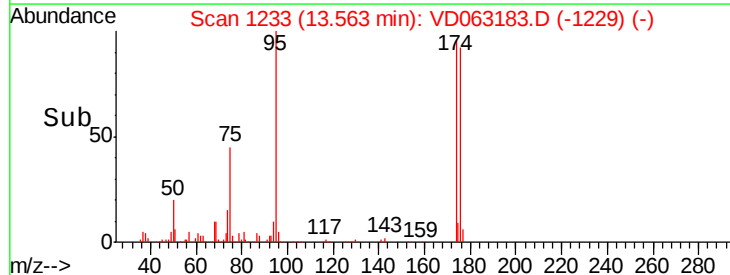
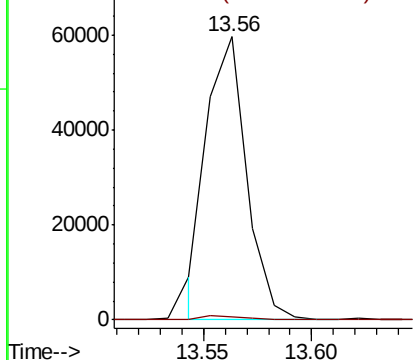
#76

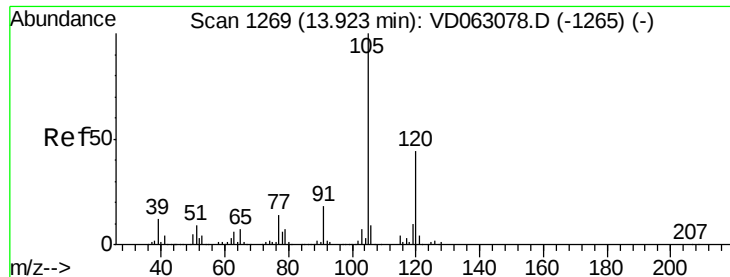
1,2,3-Trichloropropane
Concen: 39.614 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.16 min
Lab File: VD063183.D
Acq: 22 Jul 2019 18:06

Tgt Ion: 75 Resp: 76703
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

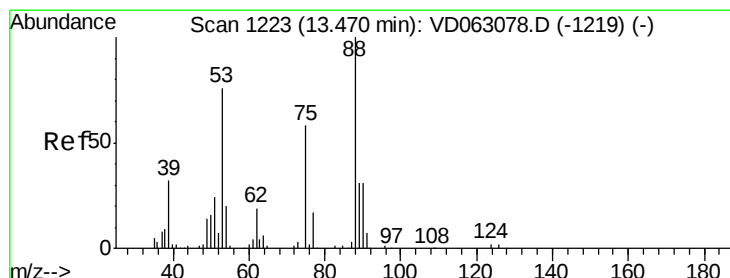
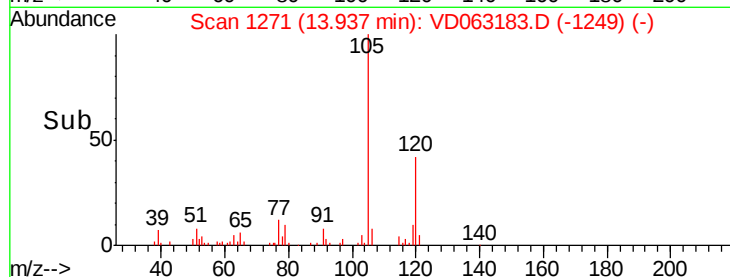
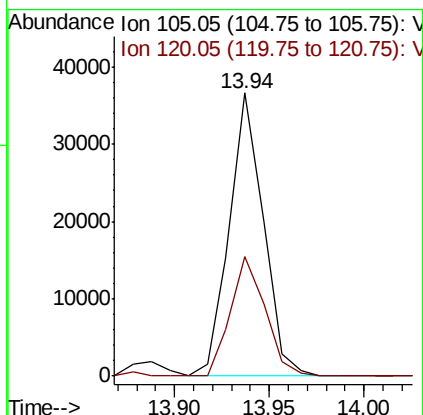
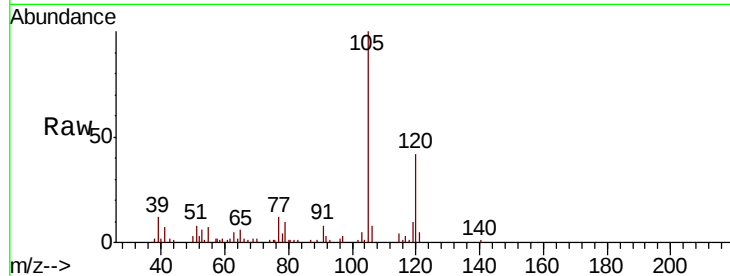




#80
 1,3,5-Trimethylbenzene
 Concen: 5.370 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD063183.D
 Acq: 22 Jul 2019 18:06

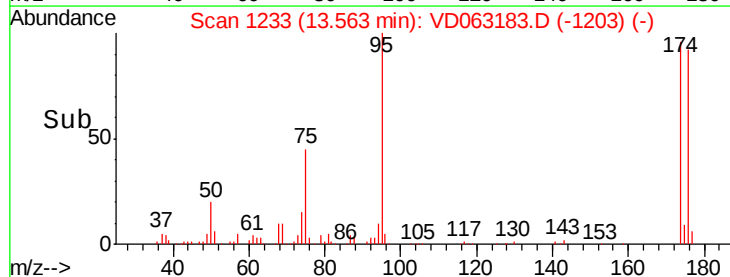
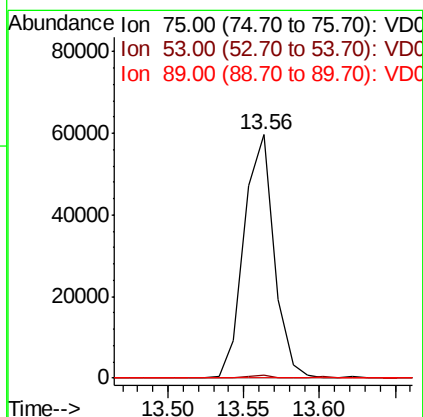
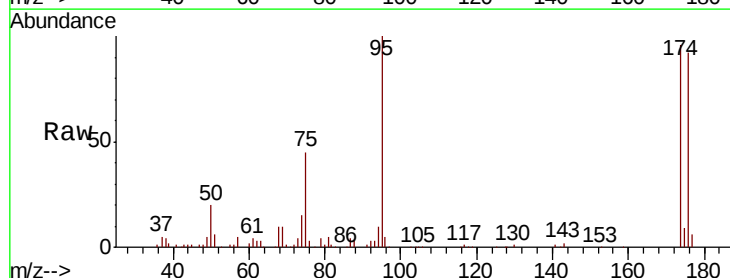
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-02-005-B

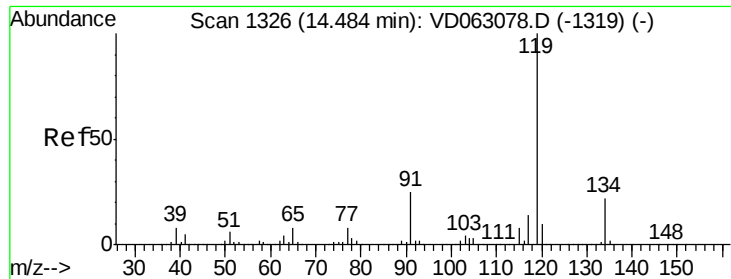
Tot Ion:105 Resp: 45491
 Ion Ratio Lower Upper
 105 100
 120 42.4 21.8 65.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 161.501 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.09 min
 Lab File: VD063183.D
 Acq: 22 Jul 2019 18:06

Tgt Ion: 75 Resp: 82347
 Ion Ratio Lower Upper
 75 100
 53 1.1 104.4 156.6#
 89 0.0 43.1 64.7#





#86
 p-Isopropyltoluene
 Concen: 1.177 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.04 min
 Lab File: VD063183.D
 Acq: 22 Jul 2019 18:06

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-02-005-B

Tot Ion	Ion	Ratio	Lower	Upper
119	100			
134	11.0	10.8	32.4	
91	20.9	12.5	37.5	

