

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032719\
 Data File : VD061380.D
 Acq On : 28 Mar 2019 5:57
 Operator : VA/AP
 Sample : K1950-02
 Misc : 4.20g/5ml/MSVOA D/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-005-A

Quant Time: Mar 28 07:45:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 02:13:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	489454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	944626	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.34	117	642885	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	179352	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.42	65	188814	45.16	ug/l	0.00
Spiked Amount			Recovery	=	90.32%	
35) Dibromofluoromethane	7.02	113	181	0.03	ug/l	0.12
Spiked Amount			Recovery	=	0.06%	
50) Toluene-d8	10.38	98	501811	28.98	ug/l	0.00
Spiked Amount			Recovery	=	57.96%	
62) 4-Bromofluorobenzene	13.54	95	175504	26.43	ug/l	0.00
Spiked Amount			Recovery	=	52.86%	

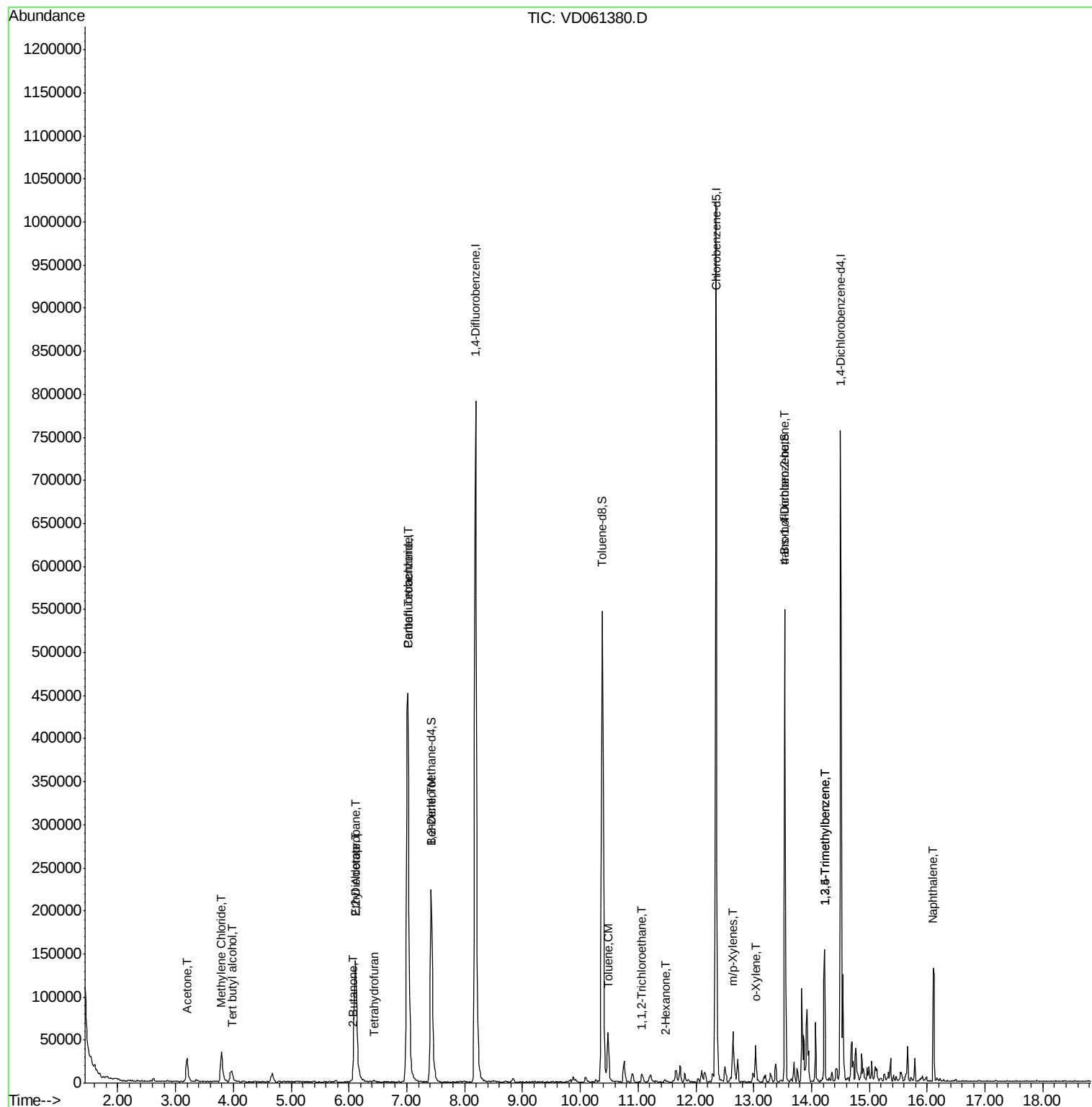
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.98	59	14200	54.534	ug/l #	76
16) Acetone	3.20	43	53626	49.893	ug/l	97
20) Methylene Chloride	3.80	84	26058	2.504	ug/l	94
25) 2-Butanone	6.05	43	3033	2.243	ug/l #	54
26) 2,2-Dichloropropane	6.10	77	10500	1.449	ug/l #	50
29) Tetrahydrofuran	6.44	42	1325	2.022	ug/l #	54
37) Ethyl Acetate	6.11	43	8999	2.552	ug/l #	1
38) Carbon Tetrachloride	7.02	117	46945	5.001	ug/l #	14
40) Benzene	7.42	78	36608	1.769	ug/l	93
52) Toluene	10.48	92	32644	2.586	ug/l	96
55) 1,1,2-Trichloroethane	11.07	97	6313	1.430	ug/l #	15
59) 2-Hexanone	11.47	43	2679	1.185	ug/l #	26
68) m/p-Xylenes	12.64	106	18108	2.384	ug/l	92
69) o-Xylene	13.03	106	11038	1.497	ug/l	98
80) 1,3,5-Trimethylbenzene	14.22	105	73262	6.987	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.54	75	63981	80.996	ug/l #	18
84) 1,2,4-Trimethylbenzene	14.22	105	73262	6.987	ug/l	100
95) Naphthalene	16.11	128	95872	26.862	ug/l	99

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.00 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Instrument :

MSVOA_D

ClientSampleId :

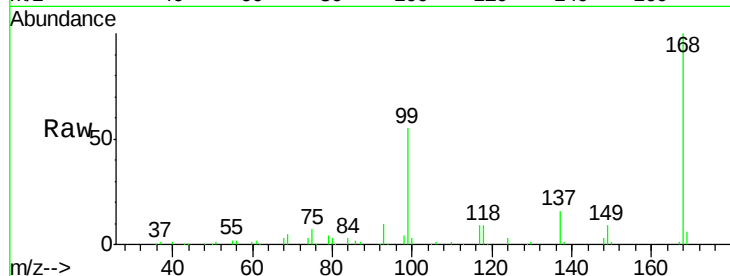
FK-SF-03-005-A

Tot Ion:168 Resp: 489454

Ion Ratio Lower Upper

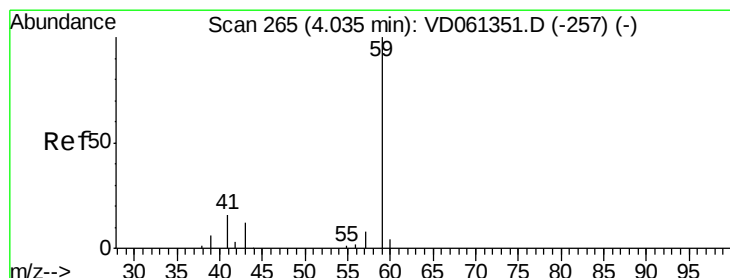
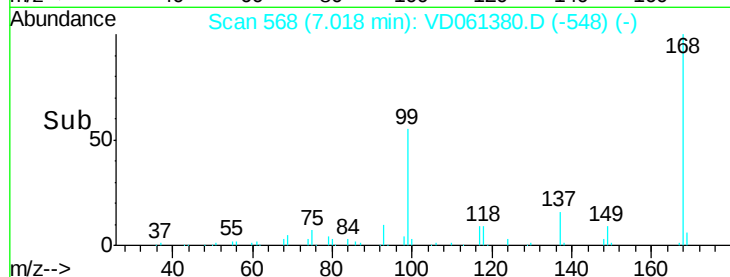
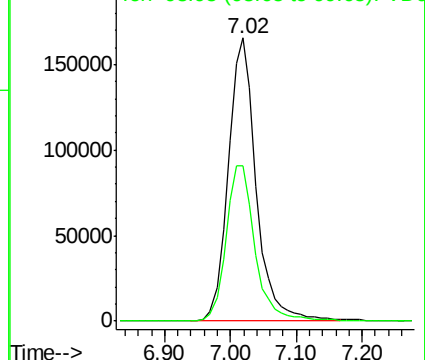
168 100

99 55.1 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 54.534 ug/l

RT: 3.98 min Scan# 259

Delta R.T. -0.06 min

Lab File: VD061380.D

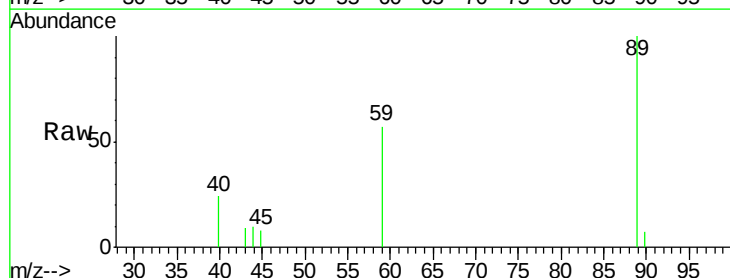
Acq: 28 Mar 2019 5:57

Tgt Ion: 59 Resp: 14200

Ion Ratio Lower Upper

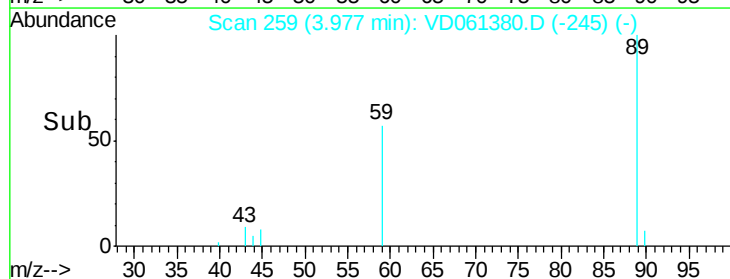
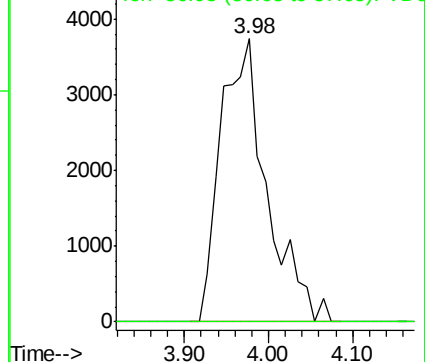
59 100

57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 49.893 ug/l

RT: 3.20 min Scan# 180

Delta R.T. 0.00 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Instrument :

MSVOA_D

ClientSampleId :

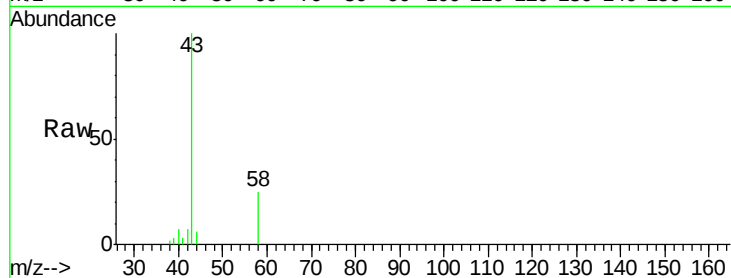
FK-SF-03-005-A

Tot Ion: 43 Resp: 53626

Ion Ratio Lower Upper

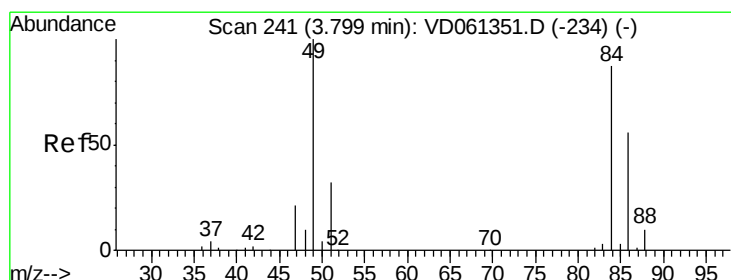
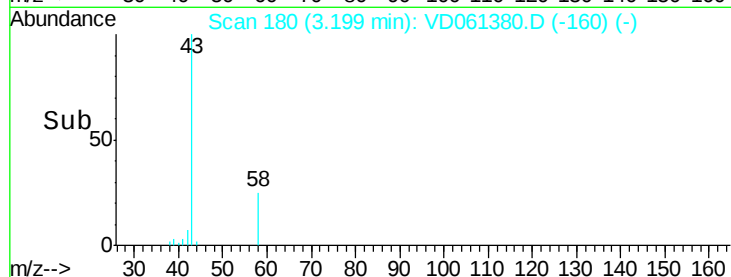
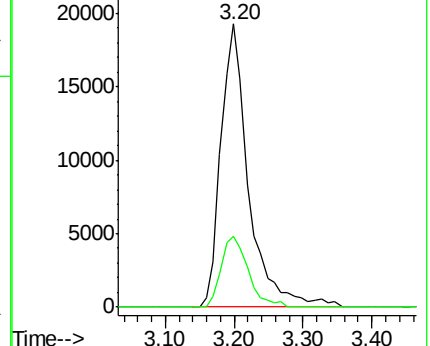
43 100

58 25.2 21.5 32.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.504 ug/l

RT: 3.80 min Scan# 241

Delta R.T. 0.00 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Tgt Ion: 84 Resp: 26058

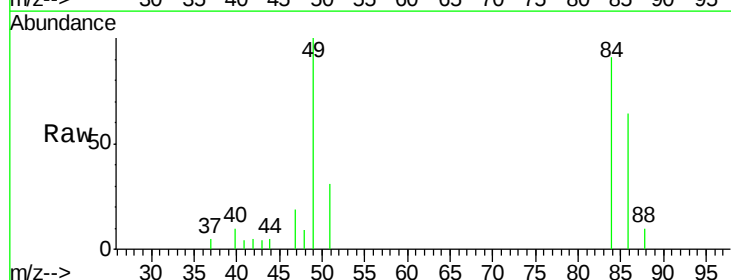
Ion Ratio Lower Upper

84 100

49 109.9 91.8 137.8

51 33.6 29.8 44.8

86 70.8 51.8 77.6

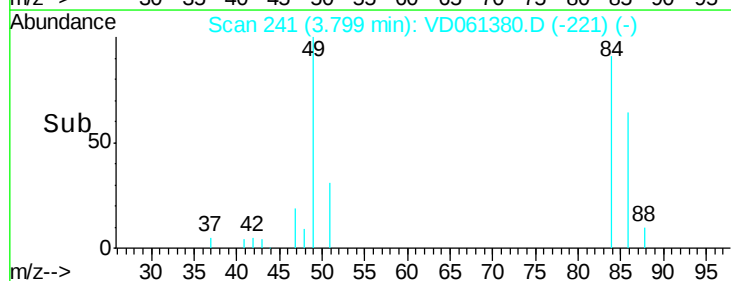
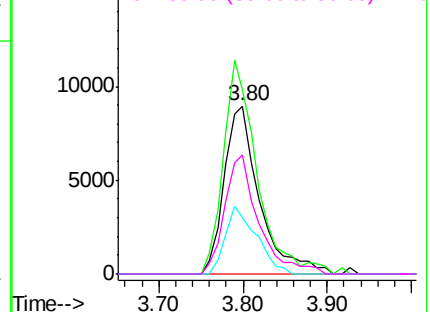


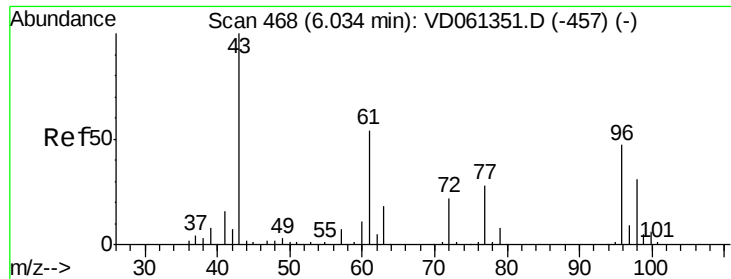
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

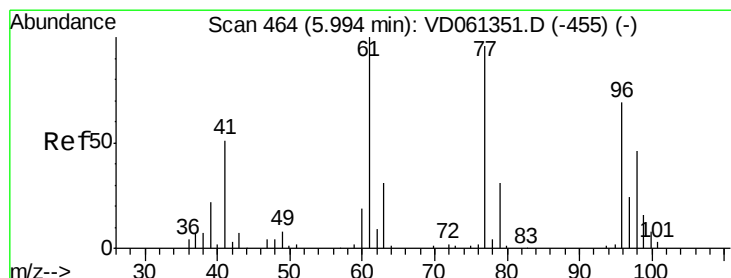
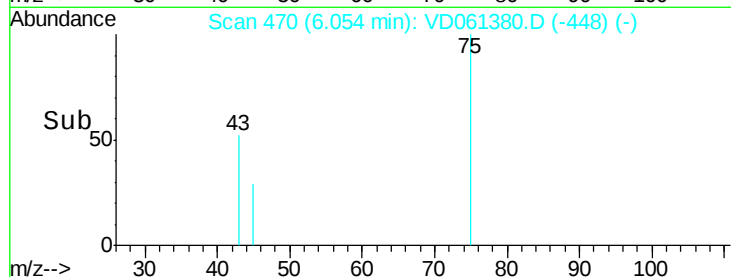
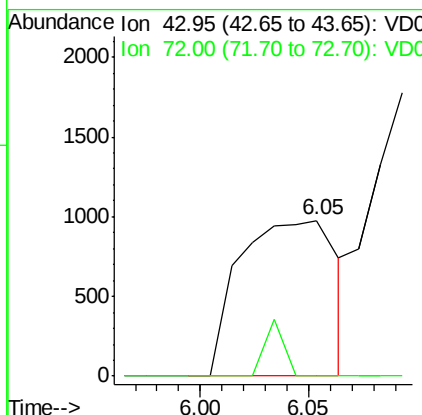
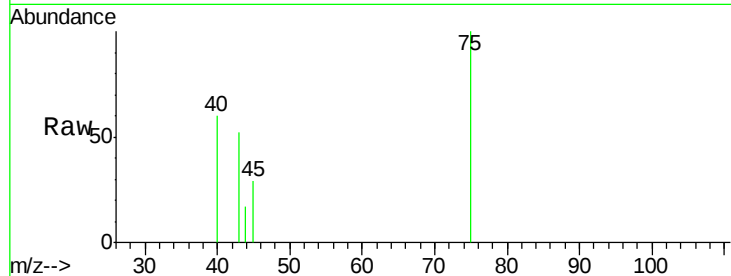




#25
 2-Butanone
 Concen: 2.243 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. 0.02 min
 Lab File: VD061380.D
 Acq: 28 Mar 2019 5:57

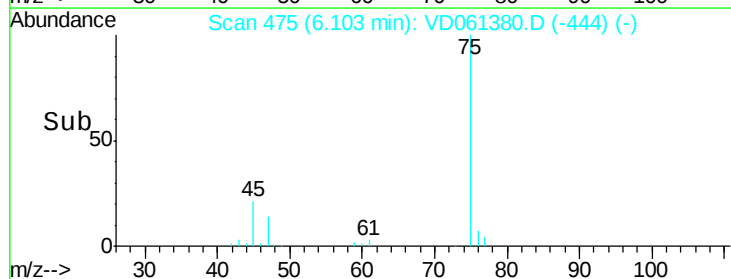
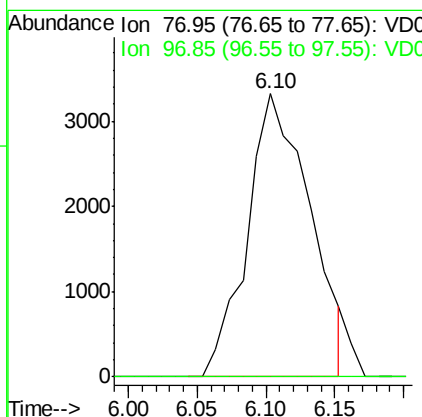
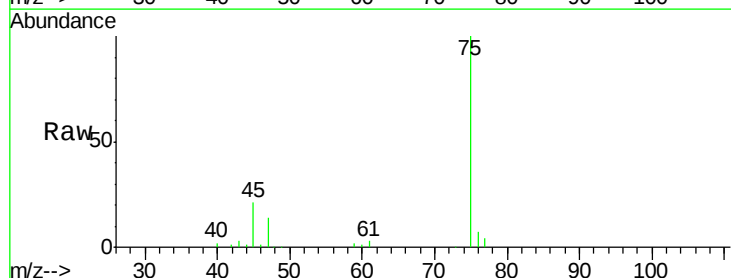
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-005-A

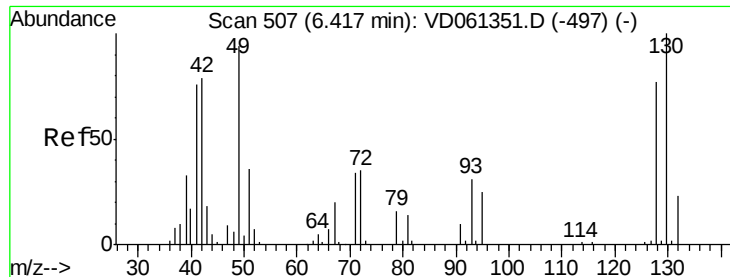
Tot Ion: 43 Resp: 3033
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.2 25.8#



#26
 2,2-Dichloropropane
 Concen: 1.449 ug/l
 RT: 6.10 min Scan# 475
 Delta R.T. 0.11 min
 Lab File: VD061380.D
 Acq: 28 Mar 2019 5:57

Tgt Ion: 77 Resp: 10500
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.7 38.0#





#29

Tetrahydrofuran

Concen: 2.022 ug/l

RT: 6.44 min Scan# 509

Delta R.T. 0.02 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-005-A

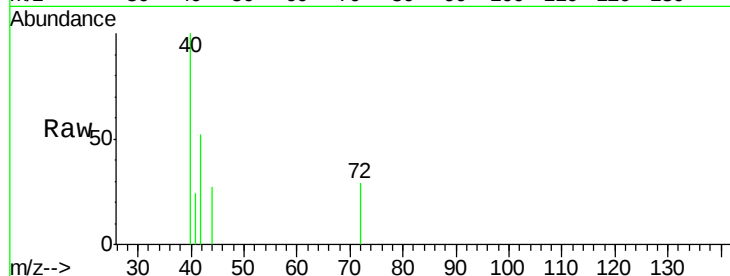
Tot Ion: 42 Resp: 1325

Ion Ratio Lower Upper

42 100

72 16.8 37.4 56.0#

71 14.3 36.7 55.1#



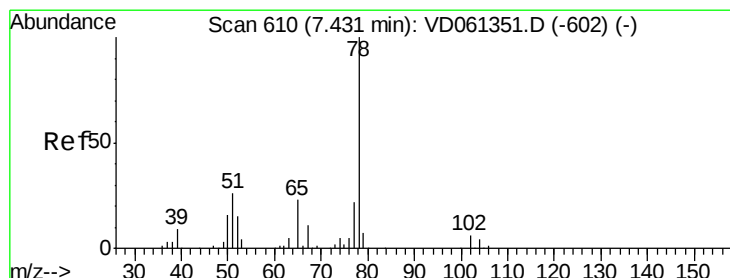
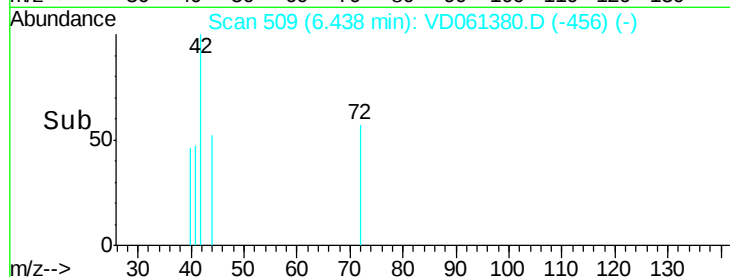
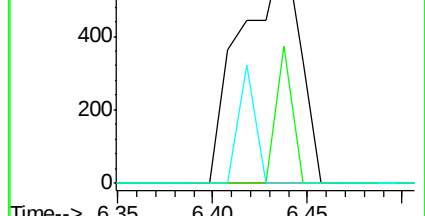
Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

6.44

6.40 6.45



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.42 min Scan# 609

Delta R.T. -0.01 min

Lab File: VD061380.D

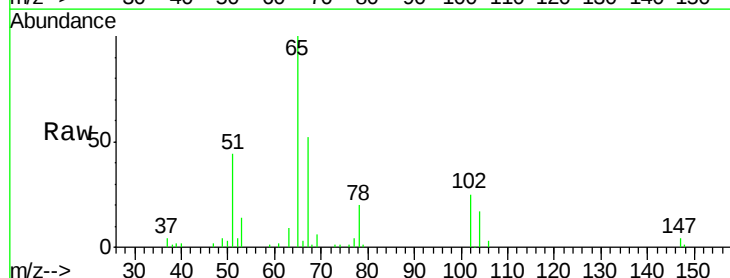
Acq: 28 Mar 2019 5:57

Tgt Ion: 65 Resp: 188814

Ion Ratio Lower Upper

65 100

67 51.8 0.0 99.8

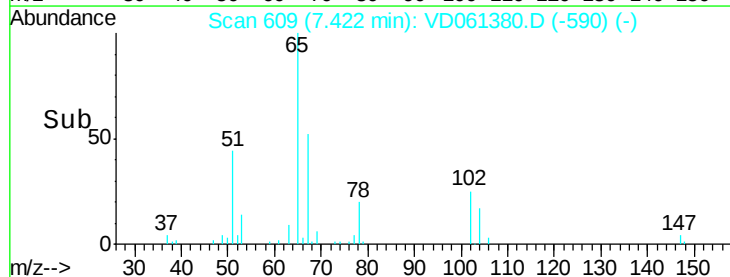
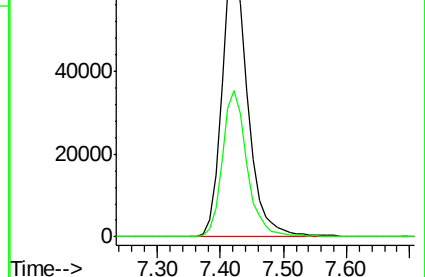


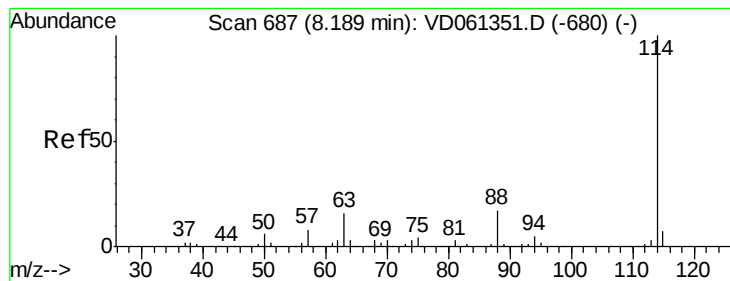
Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.42

7.30 7.40 7.50 7.60





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 687

Delta R.T. 0.00 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-005-A

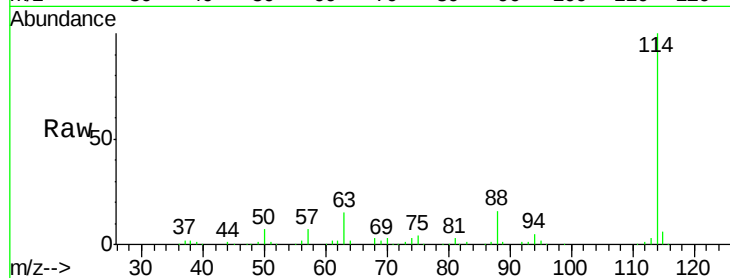
Tot Ion:114 Resp: 944626

Ion Ratio Lower Upper

114 100

63 15.4 0.0 31.6

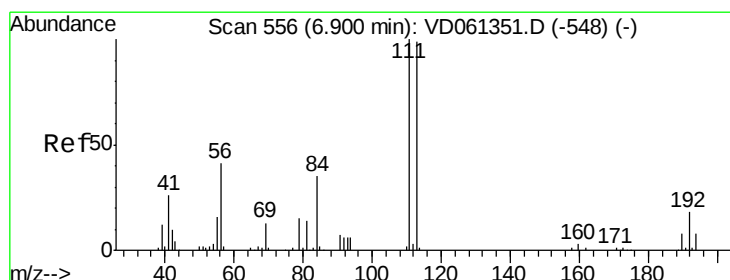
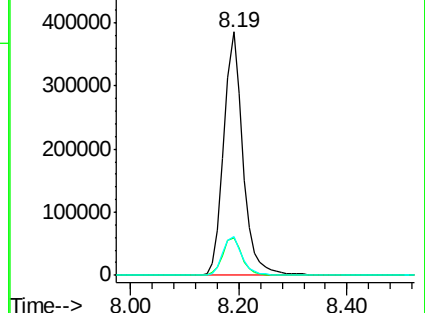
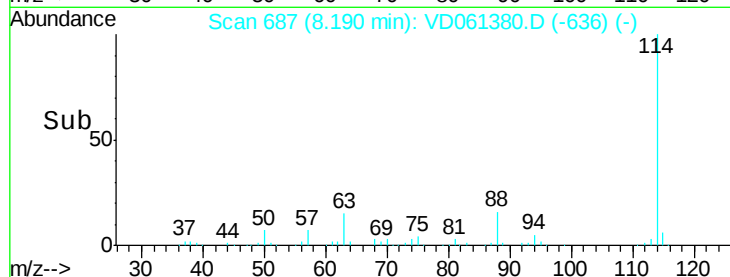
88 15.8 0.0 33.4



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: 50.000 ug/l

RT: 7.02 min Scan# 568

Delta R.T. 0.12 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

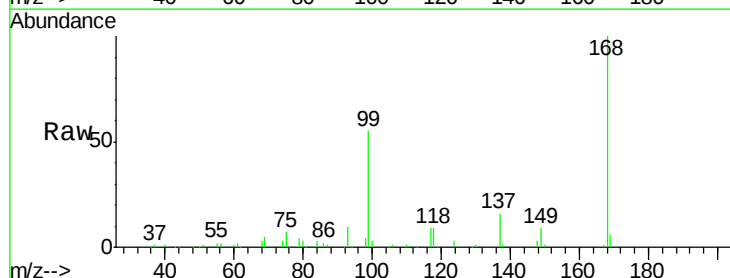
Tgt Ion:113 Resp: 181

Ion Ratio Lower Upper

113 100

111 0.0 81.0 121.6#

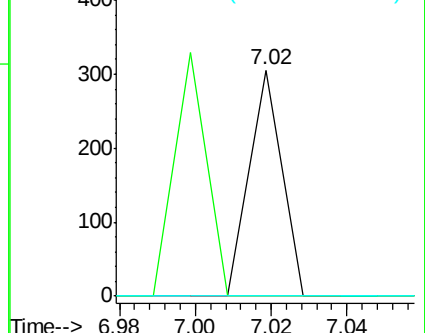
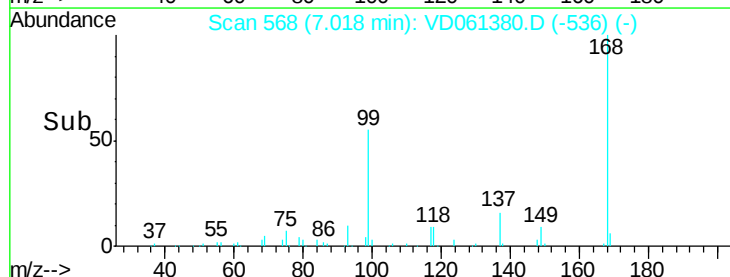
192 0.0 14.4 21.6#

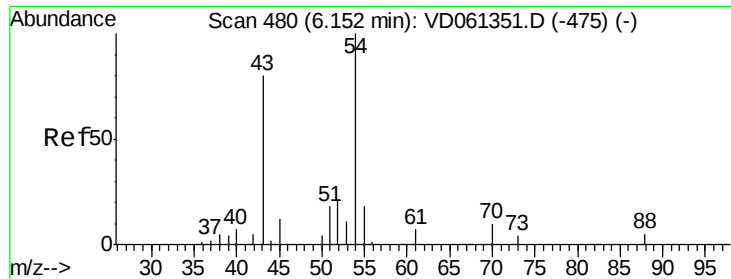


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

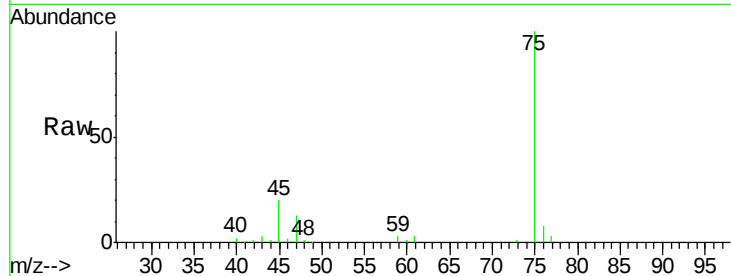




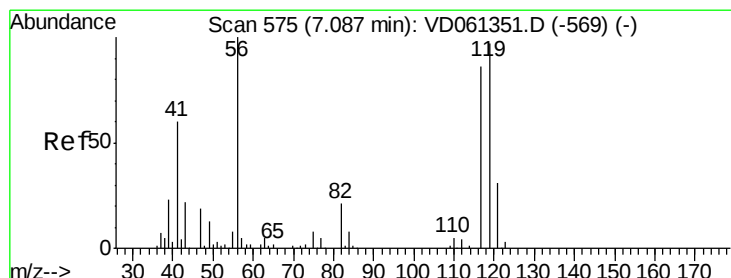
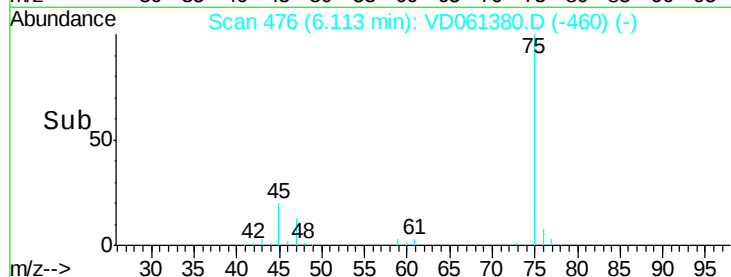
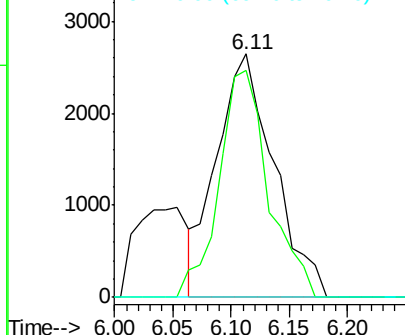
#37
Ethyl Acetate
Concen: 2.552 ug/l
RT: 6.11 min Scan# 476
Delta R.T. -0.04 min
Lab File: VD061380.D
Acq: 28 Mar 2019 5:57

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-005-A

Tot Ion: 43 Resp: 8999
Ion Ratio Lower Upper
43 100
61 93.4 13.8 20.8#
70 0.0 7.8 11.8#

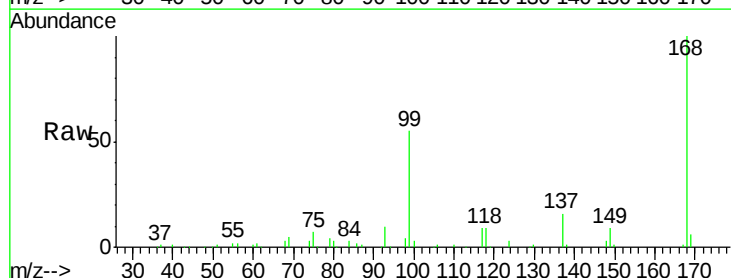


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

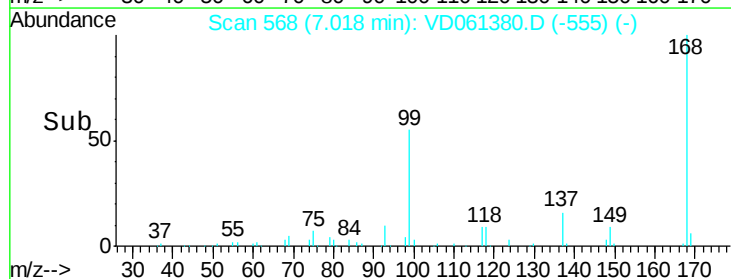
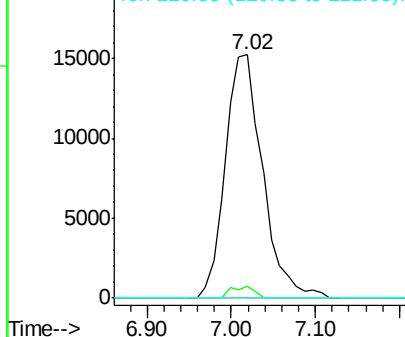


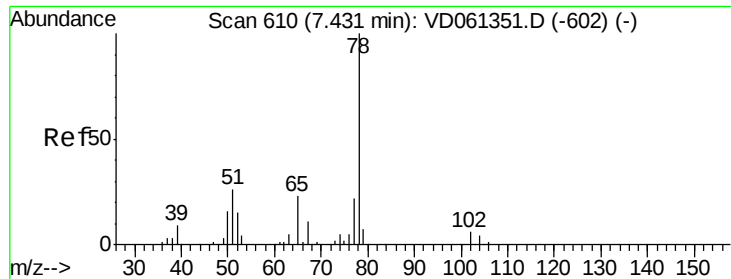
#38
Carbon Tetrachloride
Concen: 5.001 ug/l
RT: 7.02 min Scan# 568
Delta R.T. -0.07 min
Lab File: VD061380.D
Acq: 28 Mar 2019 5:57

Tgt Ion: 117 Resp: 46945
Ion Ratio Lower Upper
117 100
119 5.0 80.1 120.1#
121 0.0 25.6 38.4#



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





#40

Benzene

Concen: 1.769 ug/l

RT: 7.42 min Scan# 609

Delta R.T. -0.01 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Instrument :

MSVOA_D

ClientSampleId :

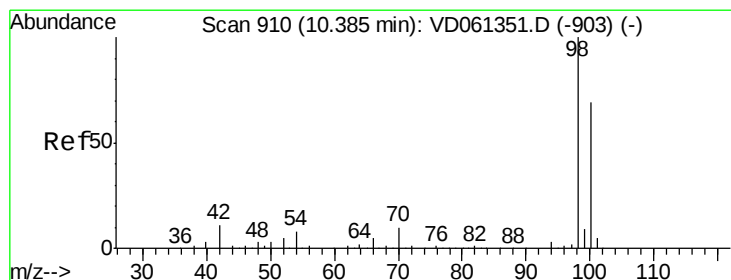
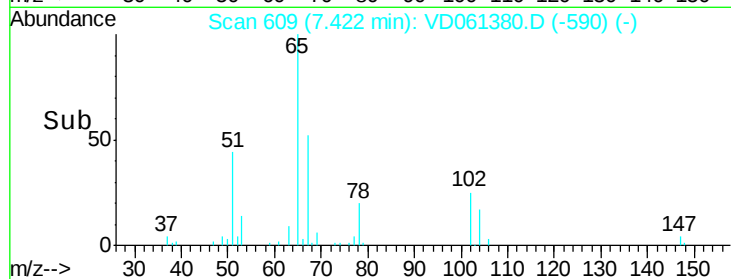
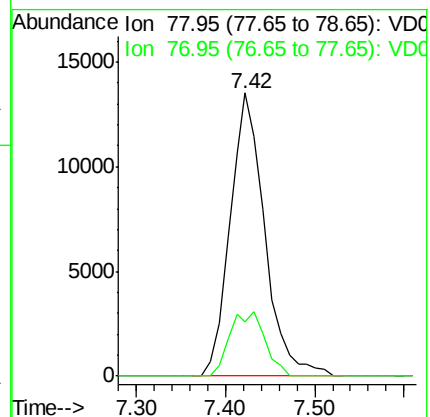
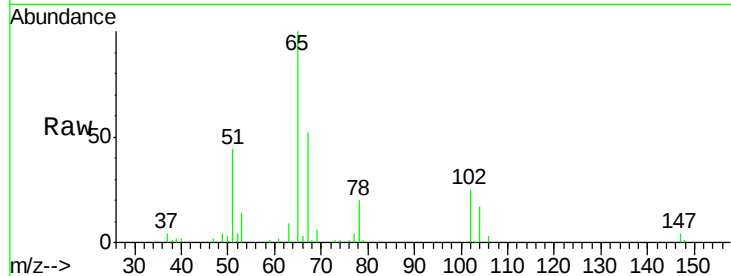
FK-SF-03-005-A

Tot Ion: 78 Resp: 36608

Ion Ratio Lower Upper

78 100

77 19.0 17.8 26.6



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.38 min Scan# 909

Delta R.T. -0.01 min

Lab File: VD061380.D

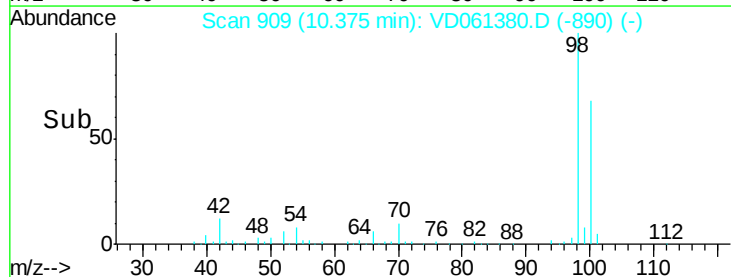
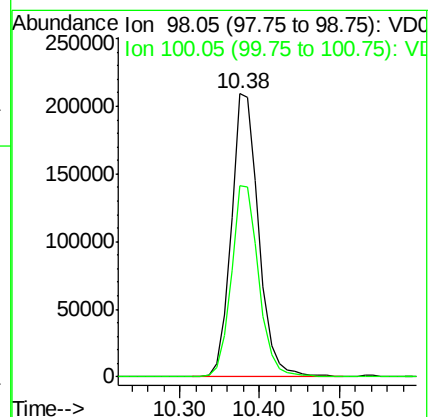
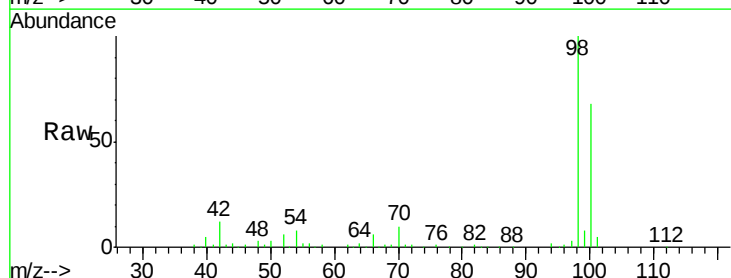
Acq: 28 Mar 2019 5:57

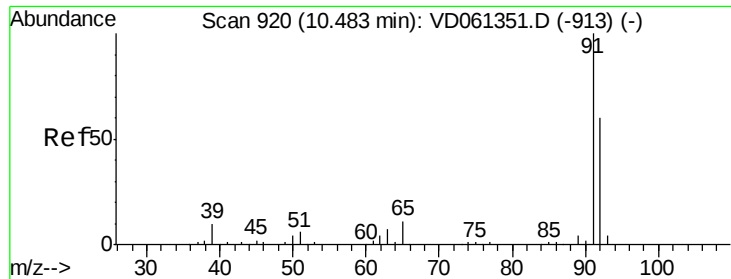
Tgt Ion: 98 Resp: 501811

Ion Ratio Lower Upper

98 100

100 67.5 56.2 84.2





#52

Toluene

Concen: 2.586 ug/l

RT: 10.48 min Scan# 920

Delta R.T. 0.00 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Instrument :

MSVOA_D

ClientSampleId :

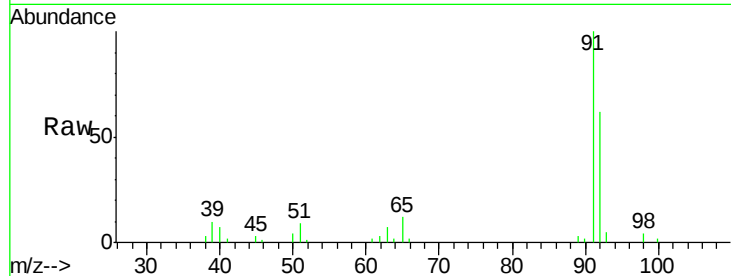
FK-SF-03-005-A

Tot Ion: 92 Resp: 32644

Ion Ratio Lower Upper

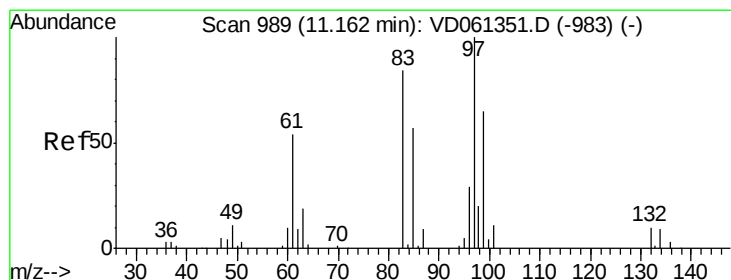
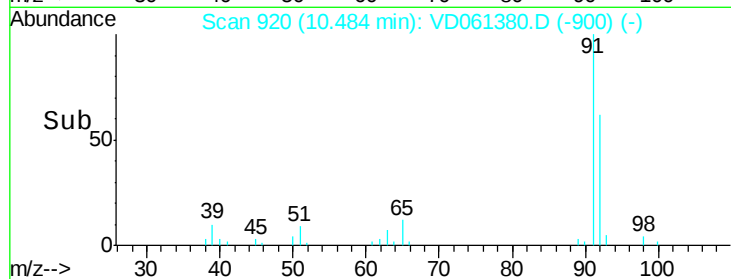
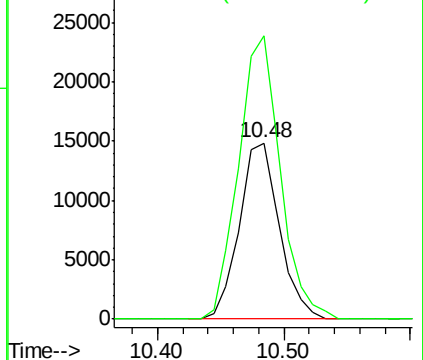
92 100

91 160.8 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 1.430 ug/l

RT: 11.07 min Scan# 980

Delta R.T. -0.09 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Tgt Ion: 97 Resp: 6313

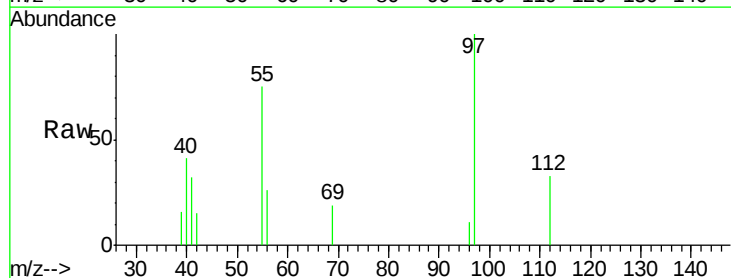
Ion Ratio Lower Upper

97 100

83 0.0 67.0 100.6#

85 0.0 45.4 68.2#

99 0.0 51.9 77.9#

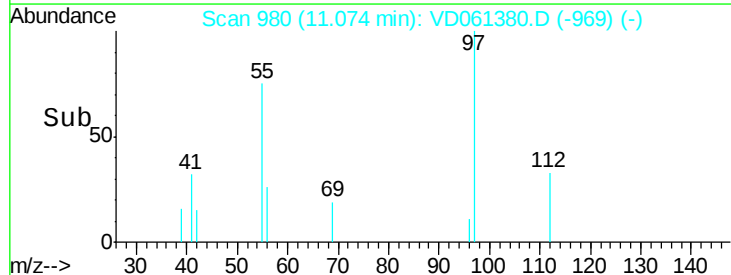
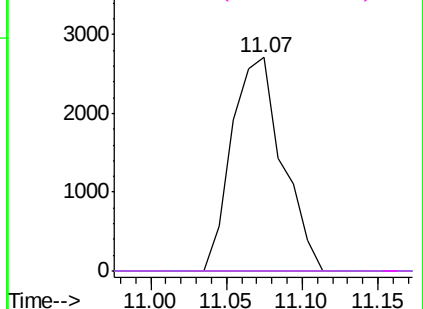


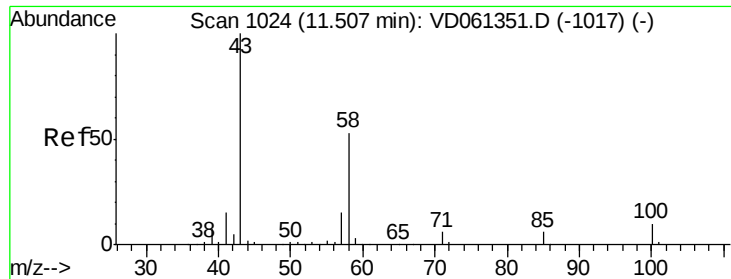
Abundance Ion 96.85 (96.55 to 97.55): VDC

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

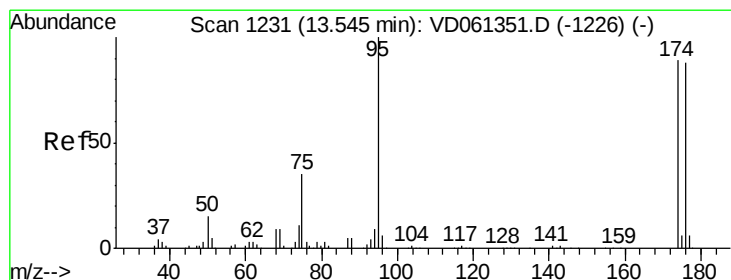
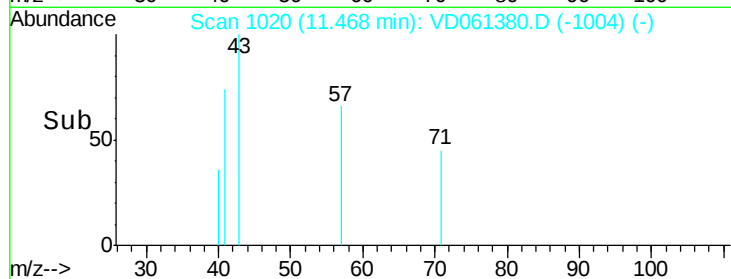
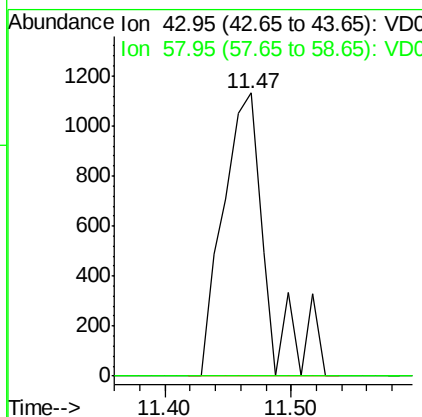
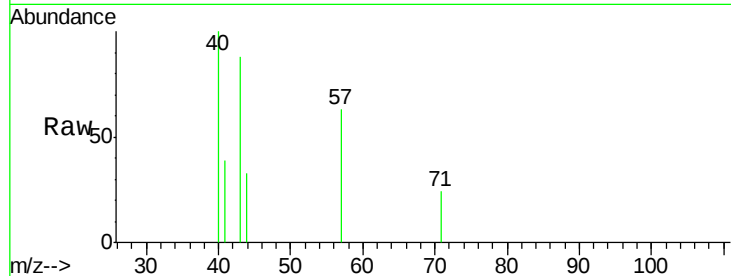




#59
2-Hexanone
Concen: 1.185 ug/l
RT: 11.47 min Scan# 1020
Delta R.T. -0.04 min
Lab File: VD061380.D
Acq: 28 Mar 2019 5:57

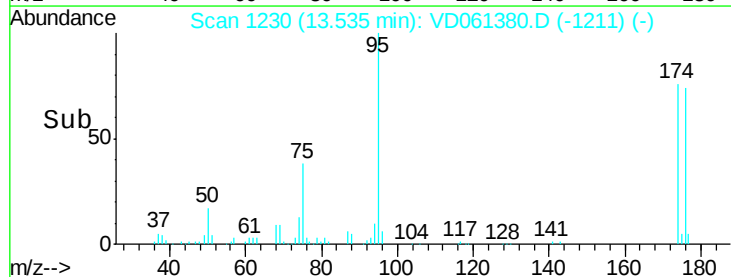
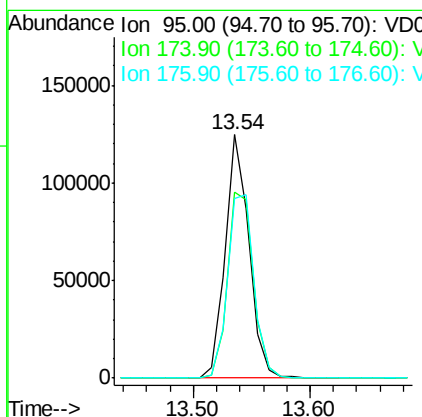
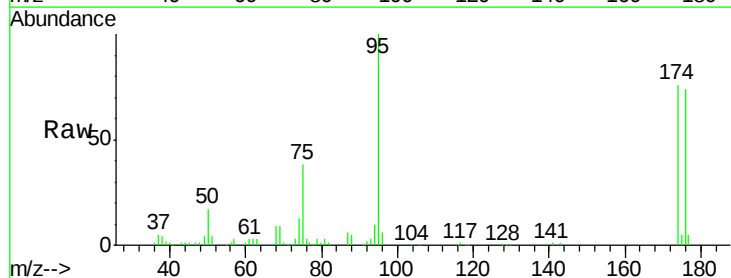
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-005-A

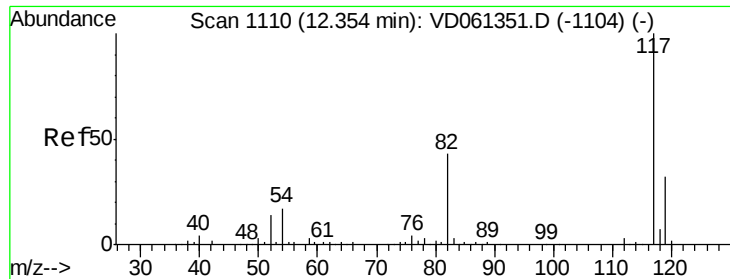
Tot Ion: 43 Resp: 2679
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.9#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.54 min Scan# 1230
Delta R.T. -0.01 min
Lab File: VD061380.D
Acq: 28 Mar 2019 5:57

Tgt Ion: 95 Resp: 175504
Ion Ratio Lower Upper
95 100
174 76.4 0.0 178.0
176 73.9 0.0 175.0

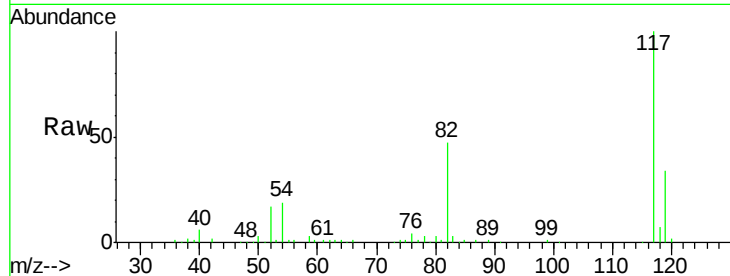




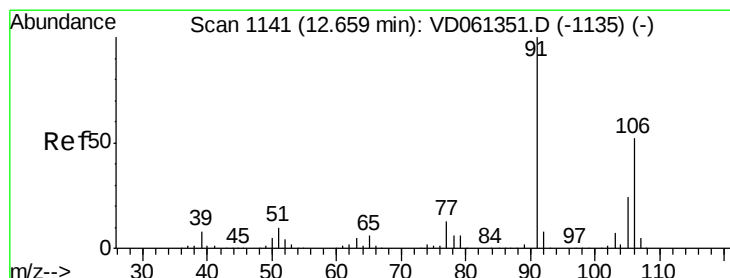
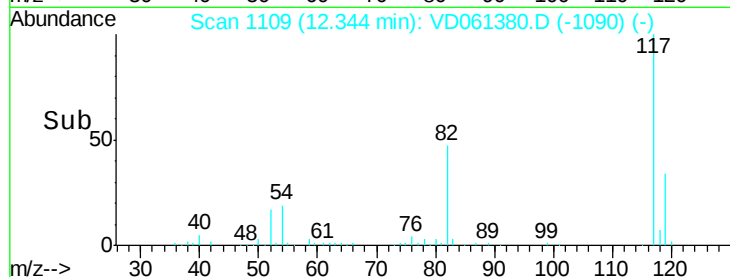
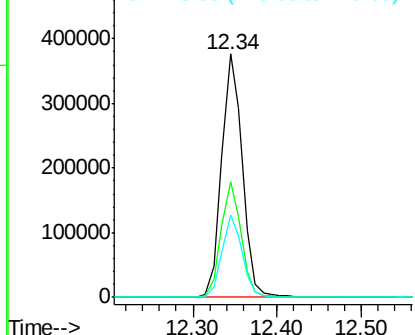
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.34 min Scan# 1109
Delta R.T. -0.01 min
Lab File: VD061380.D
Acq: 28 Mar 2019 5:57

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-005-A

Tot Ion:117 Resp: 642885
Ion Ratio Lower Upper
117 100
82 47.3 34.4 51.6
119 33.7 25.8 38.6

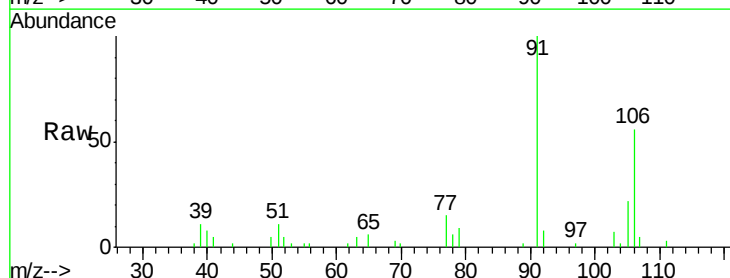


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

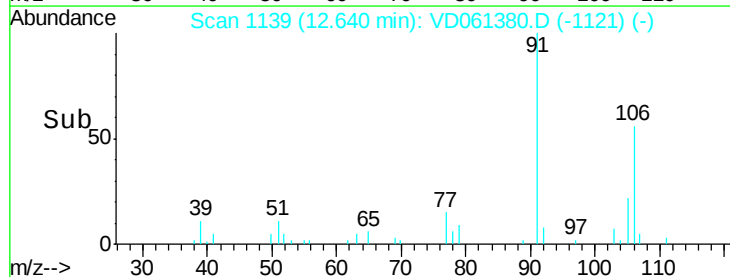
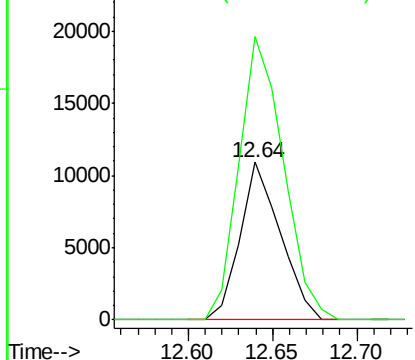


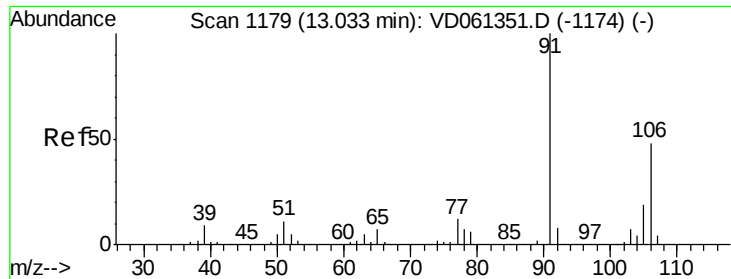
#68
m/p-Xylenes
Concen: 2.384 ug/l
RT: 12.64 min Scan# 1139
Delta R.T. -0.02 min
Lab File: VD061380.D
Acq: 28 Mar 2019 5:57

Tgt Ion:106 Resp: 18108
Ion Ratio Lower Upper
106 100
91 179.9 153.1 229.7



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

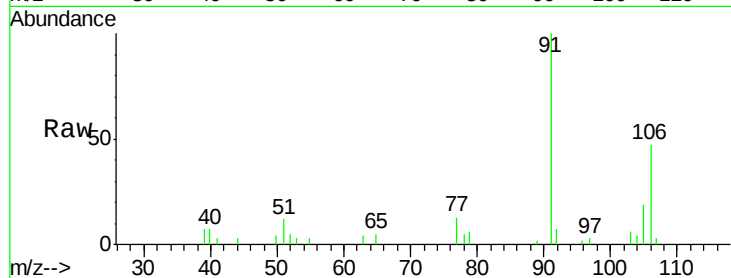




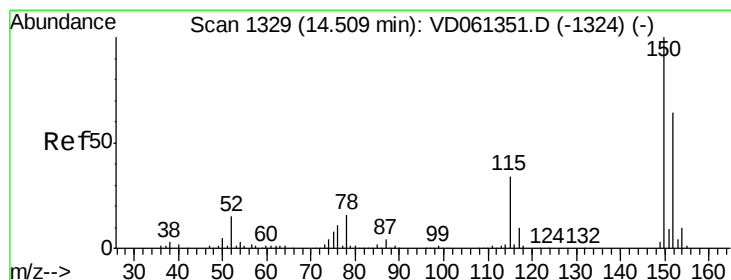
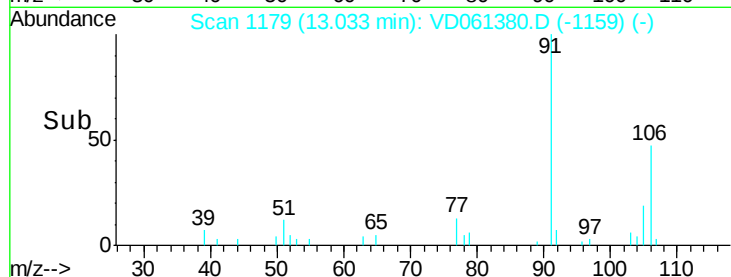
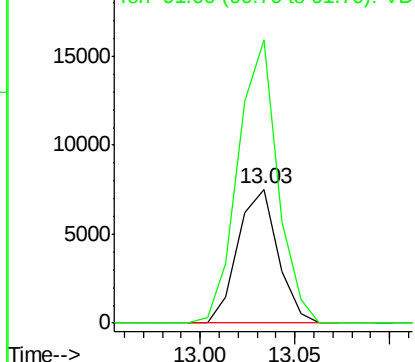
#69
o-Xylene
Concen: 1.497 ug/l
RT: 13.03 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VD061380.D
Acq: 28 Mar 2019 5:57

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-005-A

Tot Ion:106 Resp: 11038
Ion Ratio Lower Upper
106 100
91 211.3 103.8 311.3

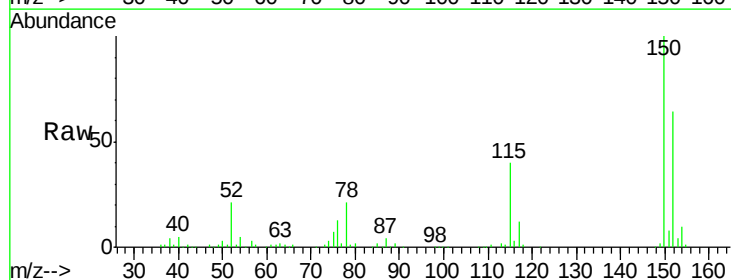


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

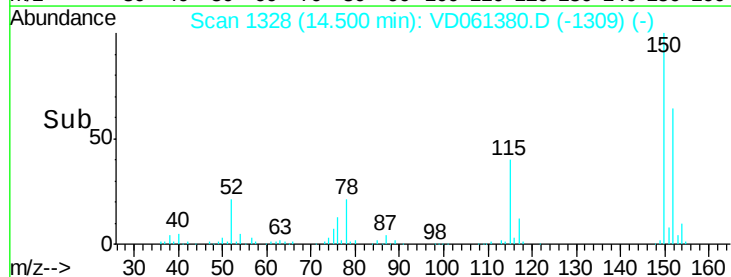
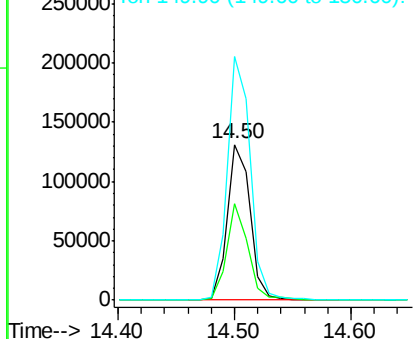


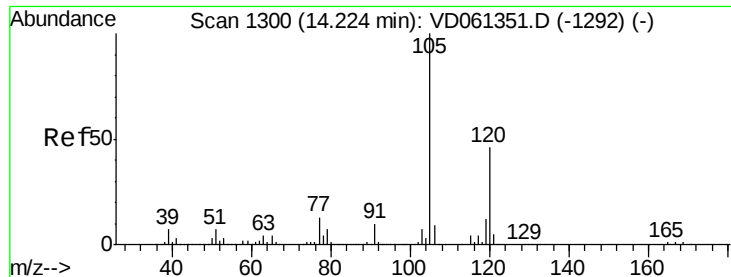
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VD061380.D
Acq: 28 Mar 2019 5:57

Tgt Ion:152 Resp: 179352
Ion Ratio Lower Upper
152 100
115 61.9 26.9 80.6
150 156.2 0.0 318.0



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





#80

1,3,5-Trimethylbenzene

Concen: 6.987 ug/l

RT: 14.22 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Instrument :

MSVOA_D

ClientSampleId :

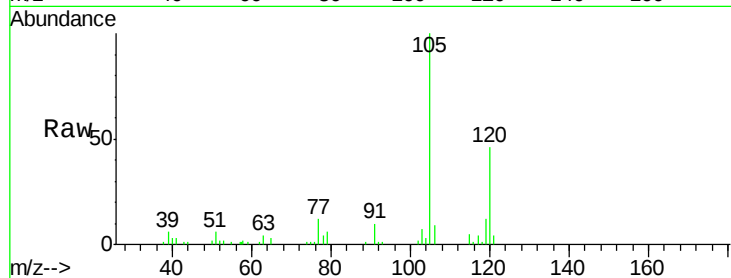
FK-SF-03-005-A

Tot Ion:105 Resp: 73262

Ion Ratio Lower Upper

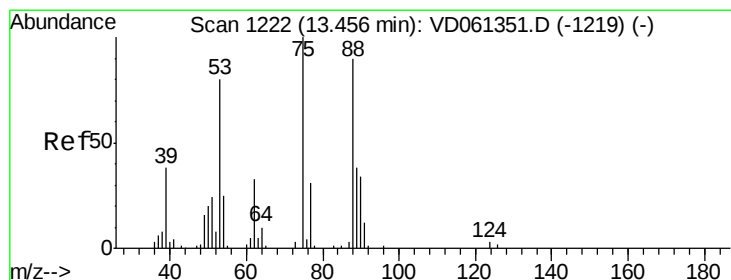
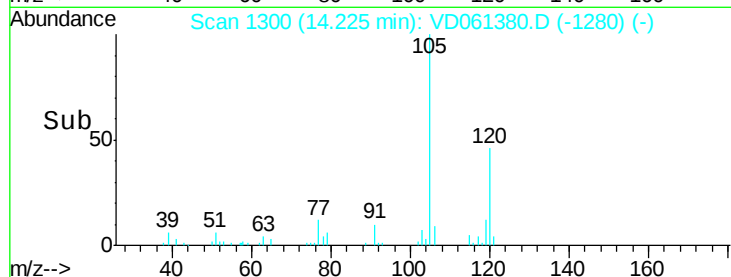
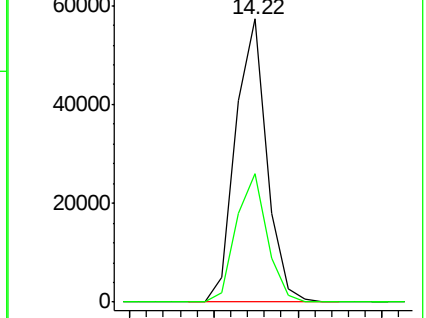
105 100

120 45.6 22.8 68.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 80.996 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. 0.08 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

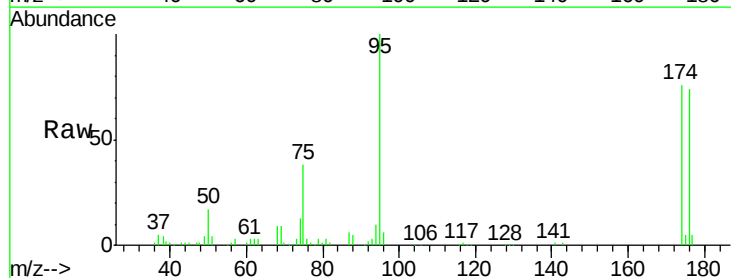
Tgt Ion: 75 Resp: 63981

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

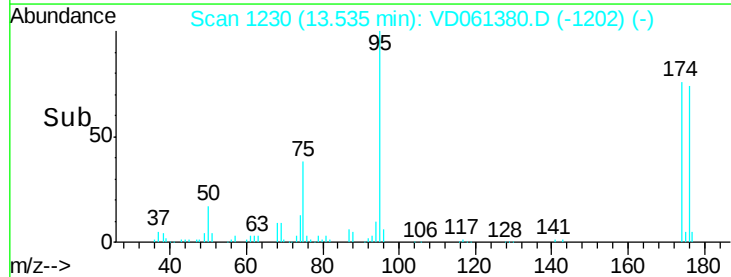
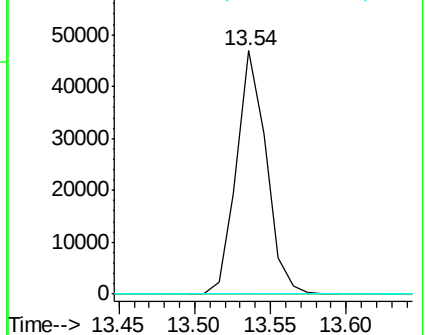
89 0.0 30.5 45.7#

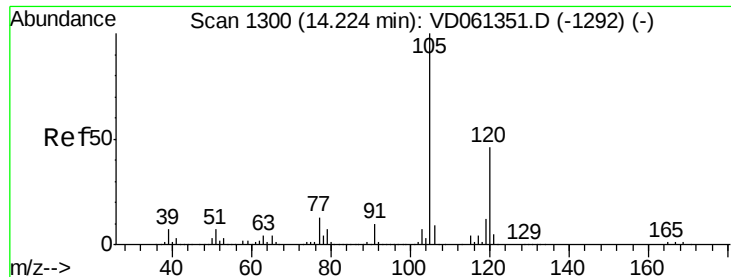


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#84

1,2,4-Trimethylbenzene

Concen: 6.987 ug/l

RT: 14.22 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

Instrument :

MSVOA_D

ClientSampleId :

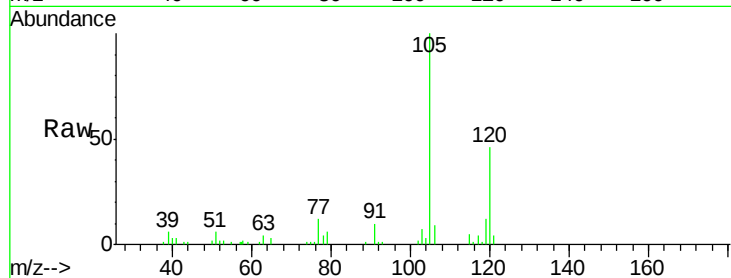
FK-SF-03-005-A

Tot Ion:105 Resp: 73262

Ion Ratio Lower Upper

105 100

120 45.6 22.8 68.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

14.22

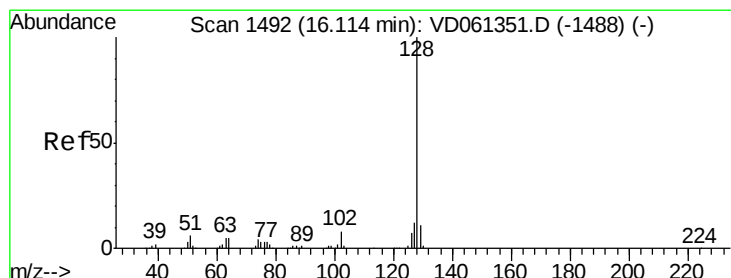
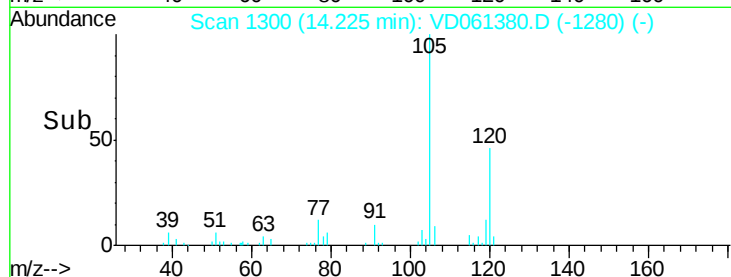
60000

40000

20000

0

Time--> 14.15 14.20 14.25 14.30



#95

Naphthalene

Concen: 26.862 ug/l

RT: 16.11 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VD061380.D

Acq: 28 Mar 2019 5:57

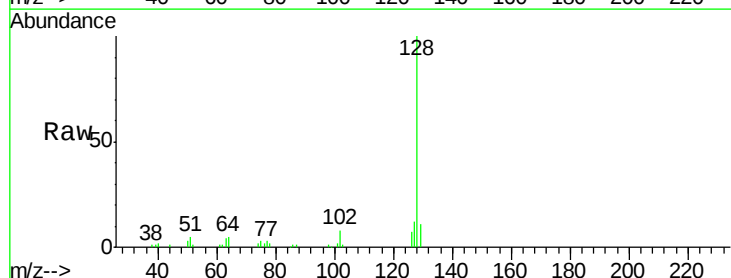
Tgt Ion:128 Resp: 95872

Ion Ratio Lower Upper

128 100

127 11.7 9.9 14.9

129 11.1 8.9 13.3



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

16.11

80000

60000

40000

20000

0

Time--> 16.10 16.20

