

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032719\
 Data File : VD061381.D
 Acq On : 28 Mar 2019 6:24
 Operator : VA/AP
 Sample : K1950-04
 Misc : 3.72g/5ml/MSVOA D/SOIL
 ALS Vial : 43 Sample Multiplier: 1

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

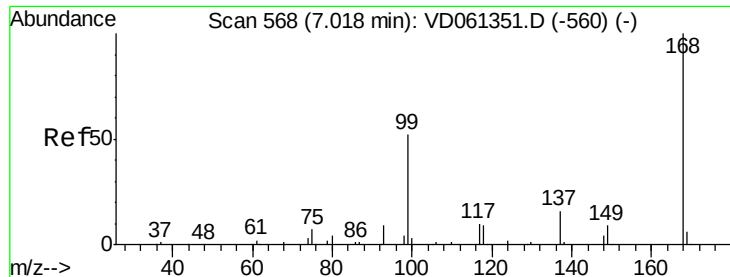
Quant Time: Mar 28 07:45:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 02:13:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	539342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.18	114	976582	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	706237	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	212345	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	185242	40.21	ug/l	0.00
Spiked Amount			Recovery	=	80.42%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
50) Toluene-d8	10.38	98	546454	30.53	ug/l	0.00
Spiked Amount			Recovery	=	61.06%	
62) 4-Bromofluorobenzene	13.54	95	186160	27.12	ug/l	0.00
Spiked Amount			Recovery	=	54.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.97	59	4138	14.422	ug/l #	76
16) Acetone	3.20	43	60536	51.112	ug/l	99
20) Methylene Chloride	3.79	84	36967	3.797	ug/l	95
25) 2-Butanone	6.05	43	2042	1.371	ug/l #	54
26) 2,2-Dichloropropane	6.11	77	8653	1.084	ug/l #	50
29) Tetrahydrofuran	6.43	42	1704	2.360	ug/l #	66
36) 1,1-Dichloropropene	7.00	75	40042	4.698	ug/l #	44
37) Ethyl Acetate	6.11	43	6899	1.893	ug/l #	1
38) Carbon Tetrachloride	7.01	117	50242	5.177	ug/l #	15
40) Benzene	7.43	78	43385	2.028	ug/l	97
52) Toluene	10.48	92	36967	2.833	ug/l	97
55) 1,1,2-Trichloroethane	11.07	97	5603	1.228	ug/l #	15
68) m/p-Xylenes	12.64	106	20177	2.418	ug/l	97
69) o-Xylene	13.03	106	14032	1.733	ug/l	93
80) 1,3,5-Trimethylbenzene	14.22	105	77793	6.266	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.54	75	70101	74.955	ug/l #	18
84) 1,2,4-Trimethylbenzene	14.22	105	77793	6.266	ug/l	96
95) Naphthalene	16.11	128	92177	21.814	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.01 min

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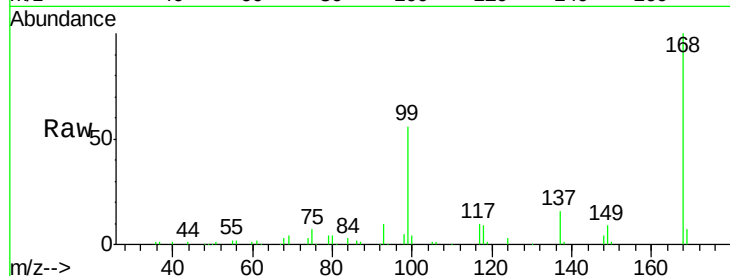
FK-SF-03-005-B

Tot Ion:168 Resp: 539342

Ion Ratio Lower Upper

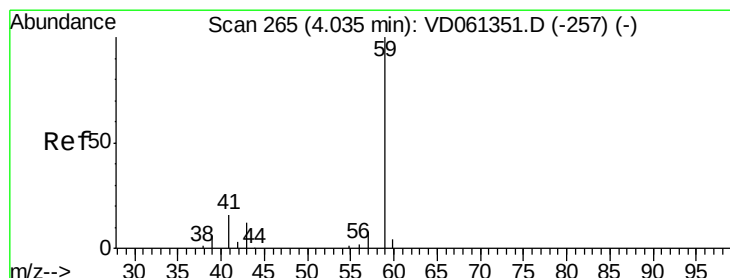
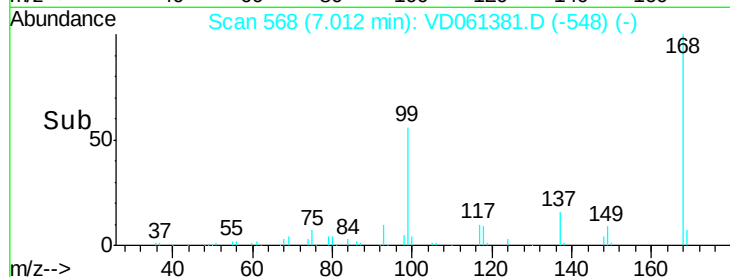
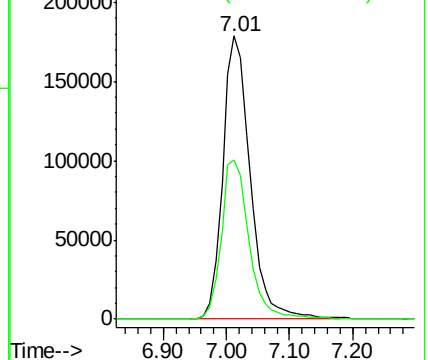
168 100

99 56.4 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: 14.422 ug/l

RT: 3.97 min Scan# 259

Delta R.T. -0.06 min

Lab File: VD061381.D

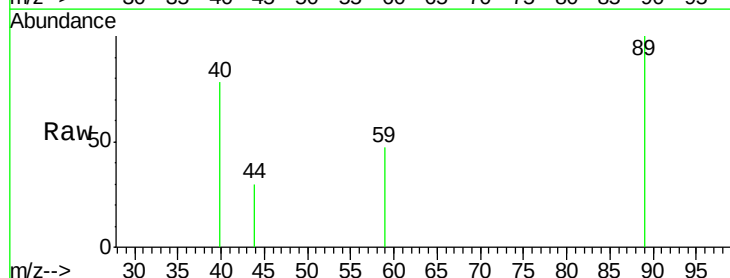
Acq: 28 Mar 2019 6:24

Tgt Ion: 59 Resp: 4138

Ion Ratio Lower Upper

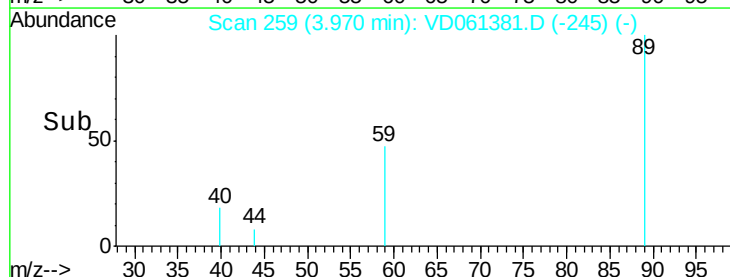
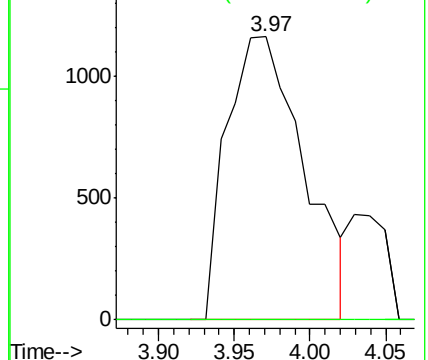
59 100

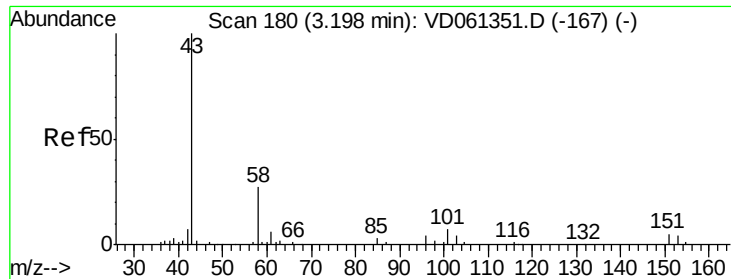
57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 51.112 ug/l

RT: 3.20 min Scan# 181

Delta R.T. 0.00 min

Lab File: VD061381.D

Acq: 28 Mar 2019 6:24

Instrument :

MSVOA_D

ClientSampleId :

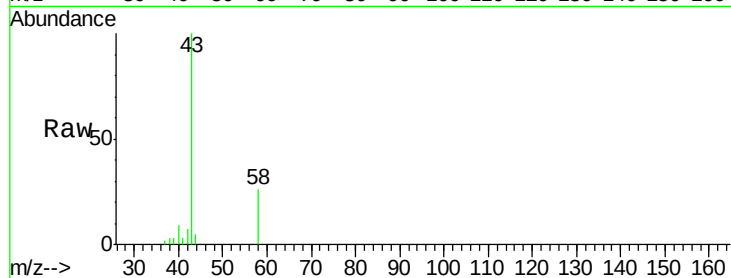
FK-SF-03-005-B

Tot Ion: 43 Resp: 60536

Ion Ratio Lower Upper

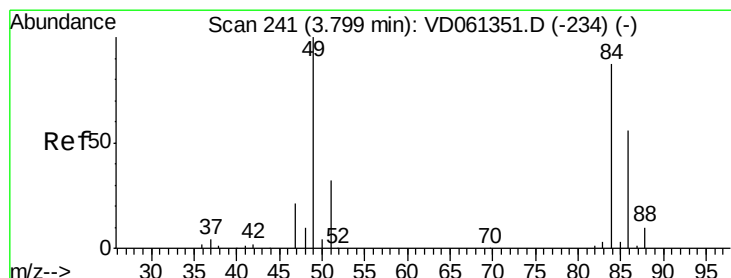
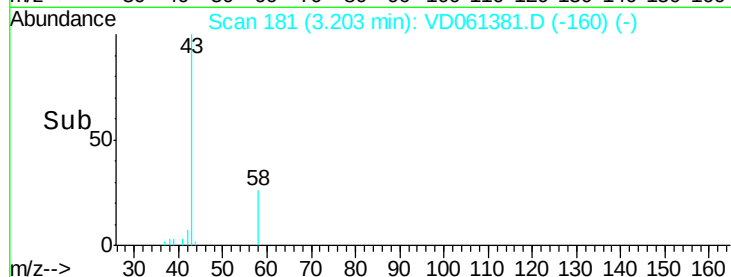
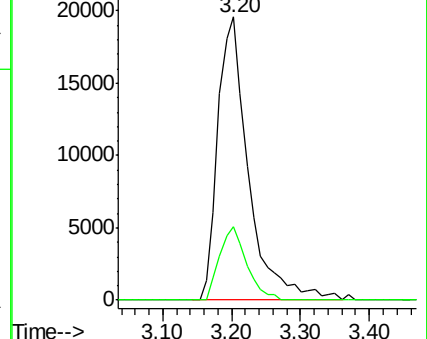
43 100

58 26.2 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: 3.797 ug/l

RT: 3.79 min Scan# 241

Delta R.T. -0.00 min

Lab File: VD061381.D

Acq: 28 Mar 2019 6:24

Tgt Ion: 84 Resp: 36967

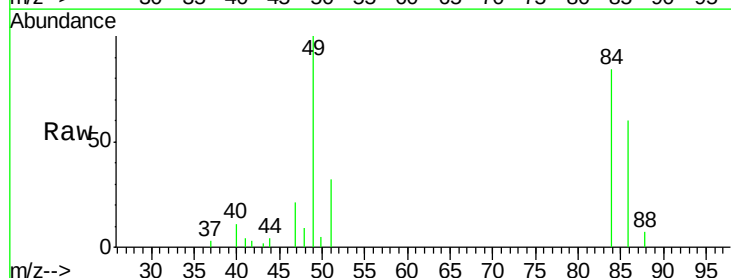
Ion Ratio Lower Upper

84 100

49 118.6 91.8 137.8

51 37.6 29.8 44.8

86 71.5 51.8 77.6

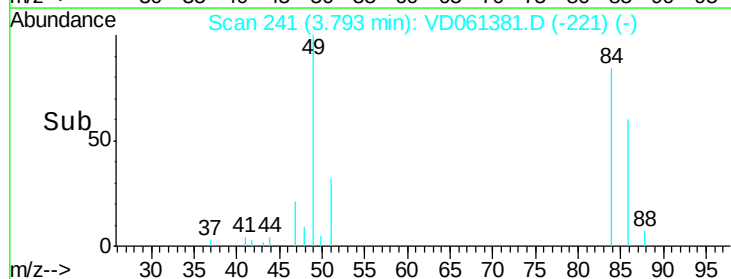
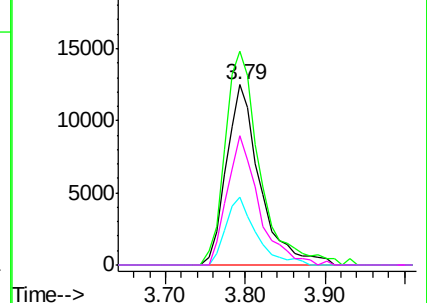


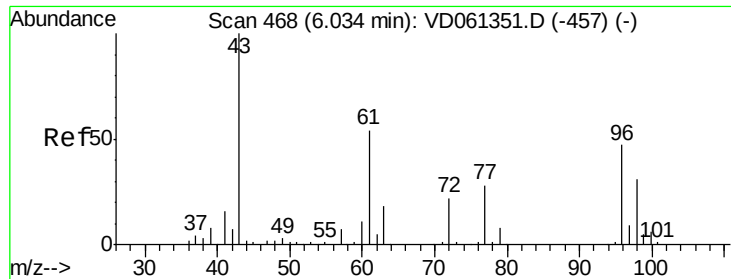
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

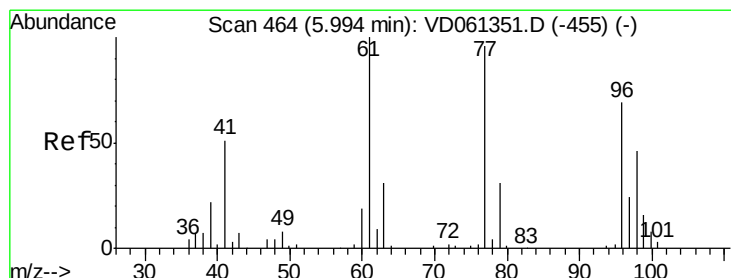
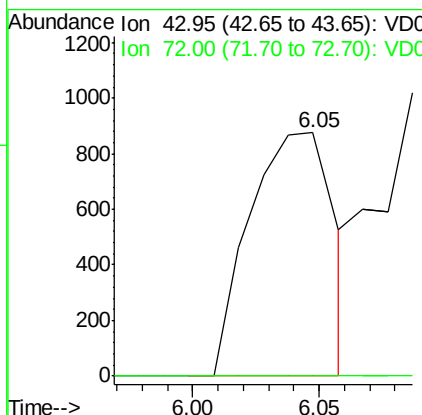
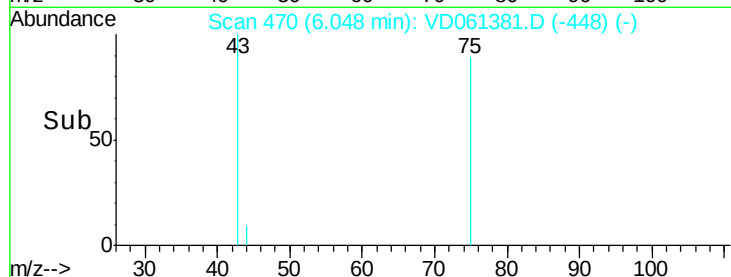
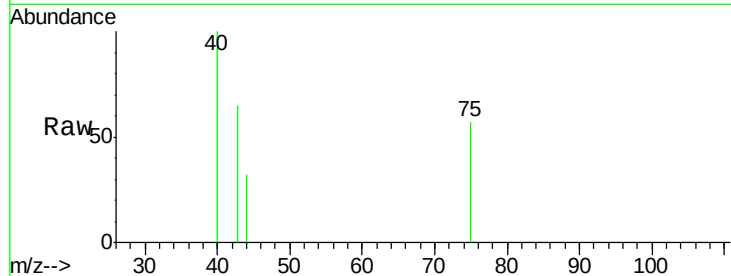




#25
2-Butanone
Concen: 1.371 ug/l
RT: 6.05 min Scan# 470
Delta R.T. 0.01 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

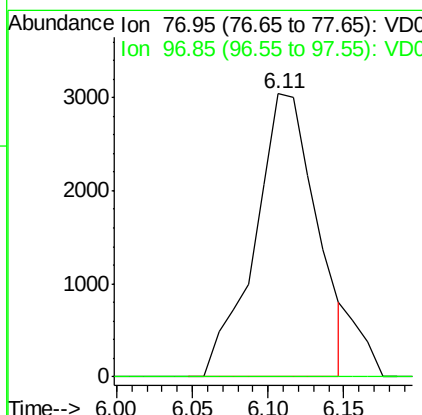
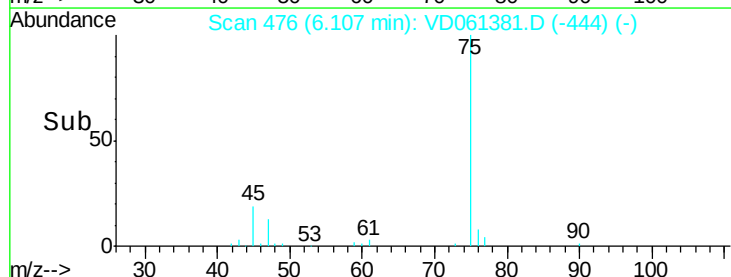
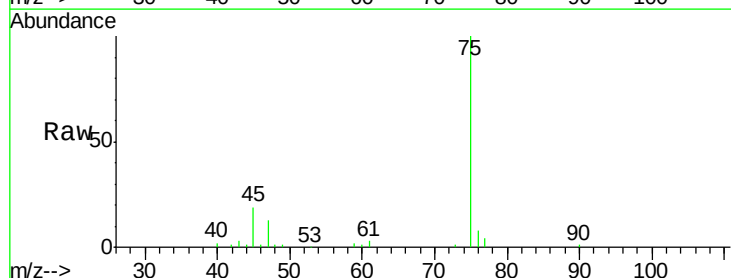
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-005-B

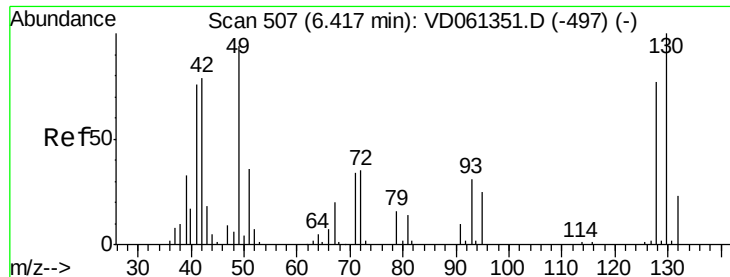
Tot Ion: 43 Resp: 2042
Ion Ratio Lower Upper
43 100
72 0.0 17.2 25.8#



#26
2,2-Dichloropropane
Concen: 1.084 ug/l
RT: 6.11 min Scan# 476
Delta R.T. 0.11 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

Tgt Ion: 77 Resp: 8653
Ion Ratio Lower Upper
77 100
97 0.0 12.7 38.0#

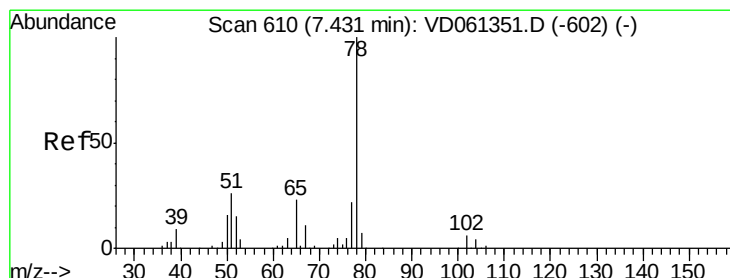
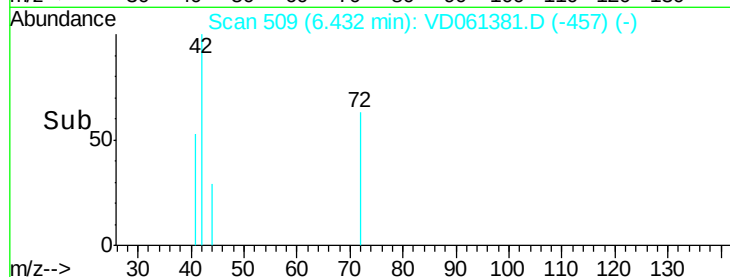
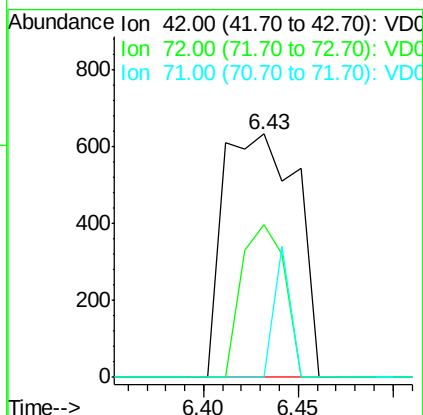
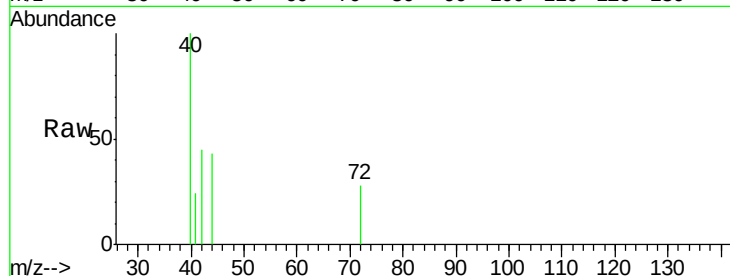




#29
Tetrahydrofuran
Concen: 2.360 ug/l
RT: 6.43 min Scan# 509
Delta R.T. 0.01 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

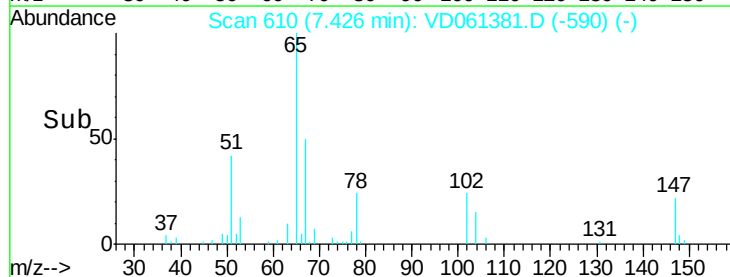
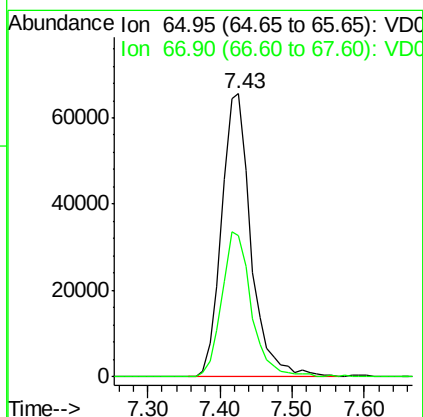
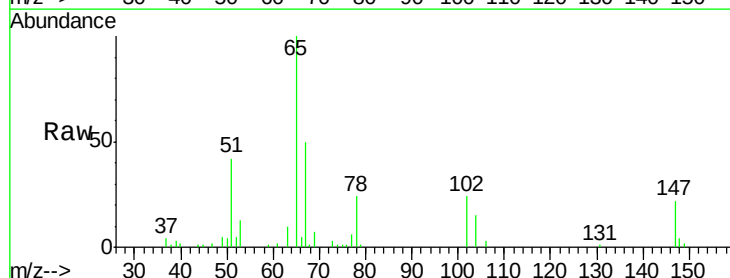
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-005-B

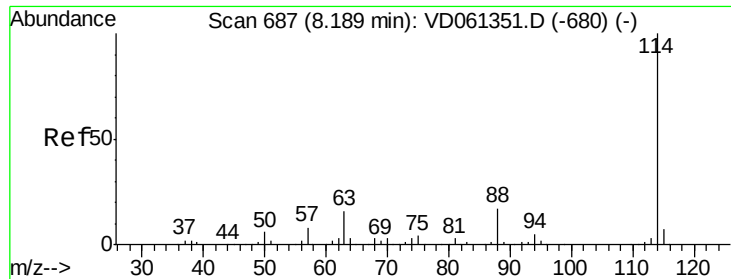
Tot Ion: 42 Resp: 1704
Ion Ratio Lower Upper
42 100
72 36.3 37.4 56.0#
71 11.7 36.7 55.1#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.43 min Scan# 610
Delta R.T. -0.01 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

Tgt Ion: 65 Resp: 185242
Ion Ratio Lower Upper
65 100
67 50.0 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.18 min Scan# 687

Delta R.T. -0.01 min

Lab File: VD061381.D

Acq: 28 Mar 2019 6:24

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-005-B

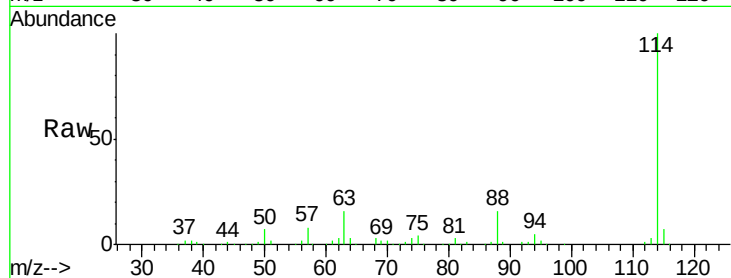
Tot Ion:114 Resp: 976582

Ion Ratio Lower Upper

114 100

63 16.4 0.0 31.6

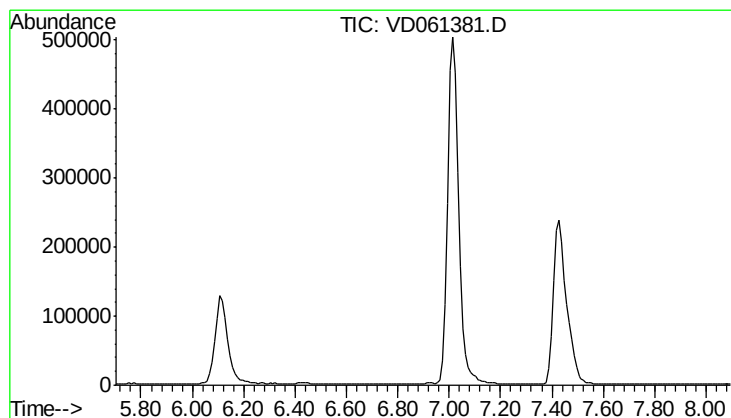
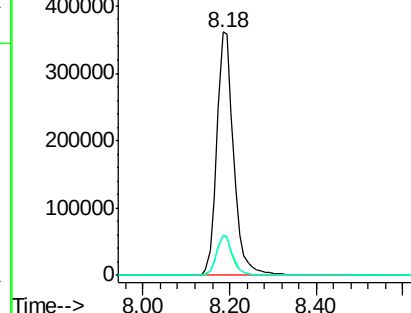
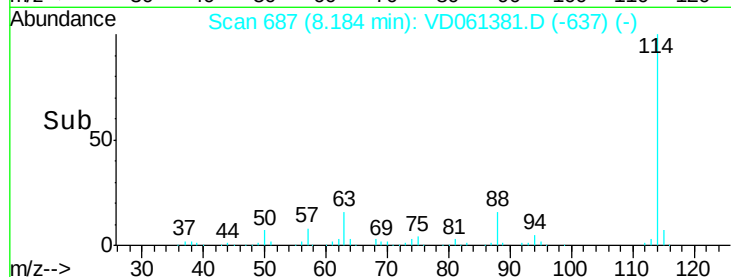
88 16.4 0.0 33.4



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

Expected RT: 6.90 min

Lab File: VD061381.D

Acq: 28 Mar 2019 6:24

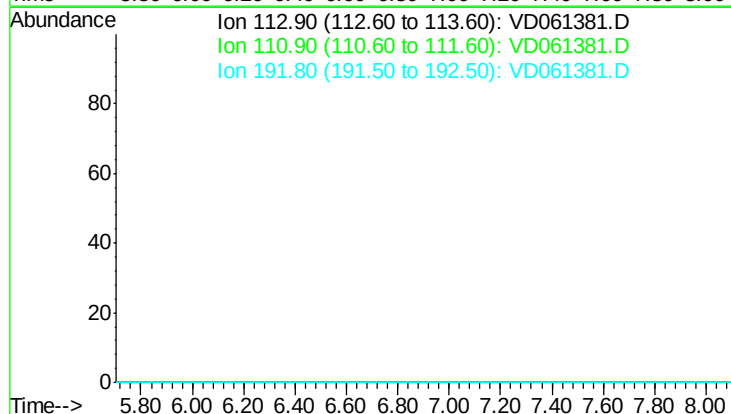
Tgt Ion: 113

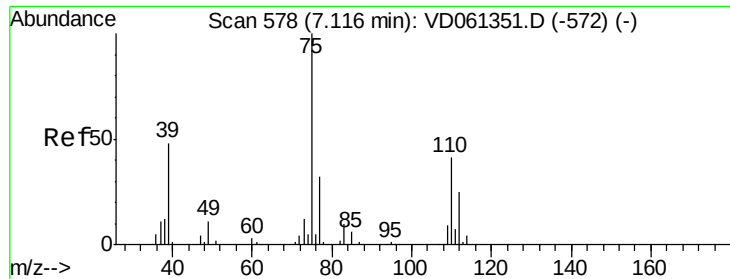
Sig Exp Ratio

113 100

111 101.3

192 18.0

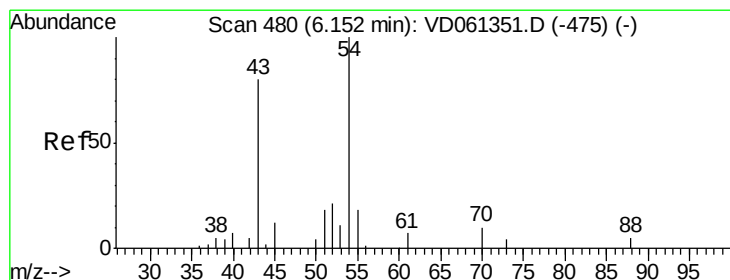
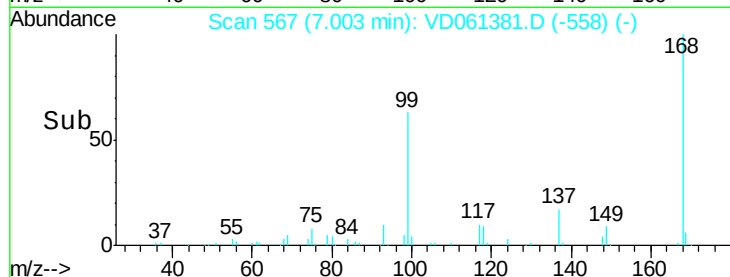
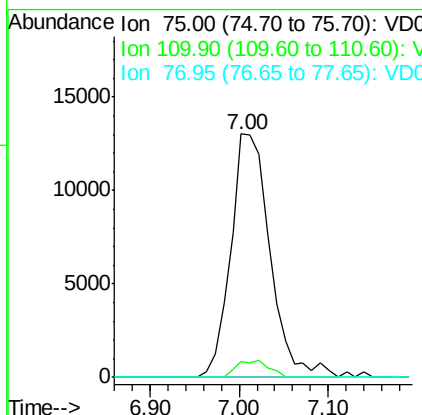
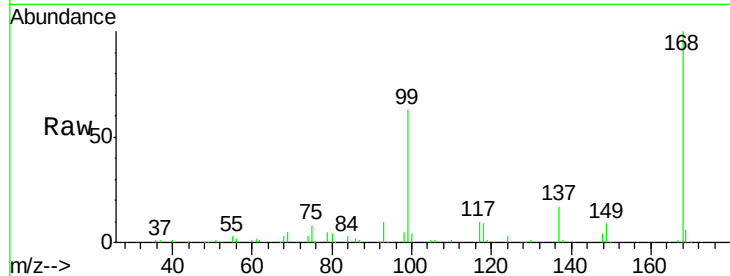




#36
 1,1-Dichloropropene
 Concen: 4.698 ug/l
 RT: 7.00 min Scan# 567
 Delta R.T. -0.11 min
 Lab File: VD061381.D
 Acq: 28 Mar 2019 6:24

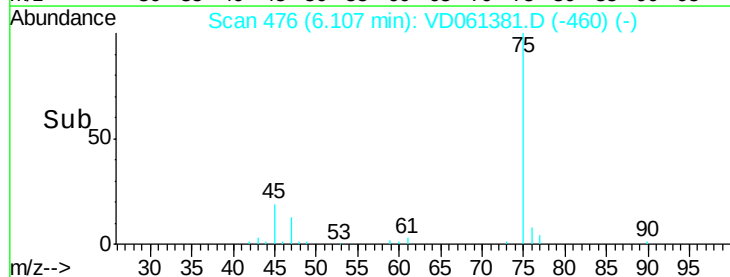
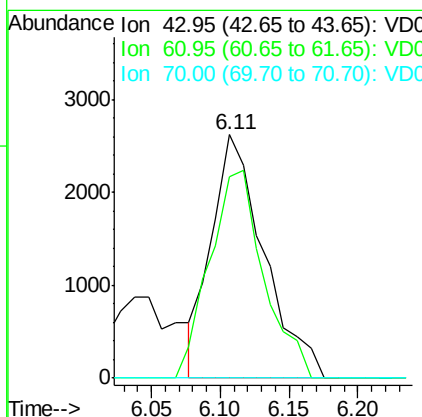
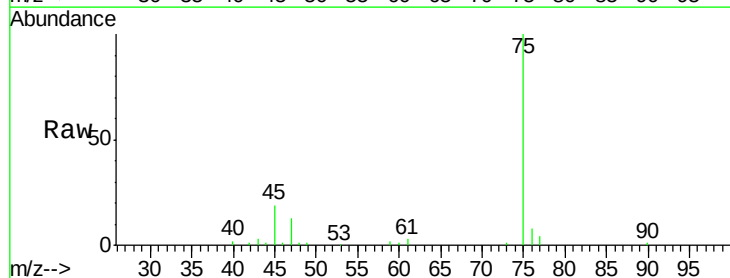
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-005-B

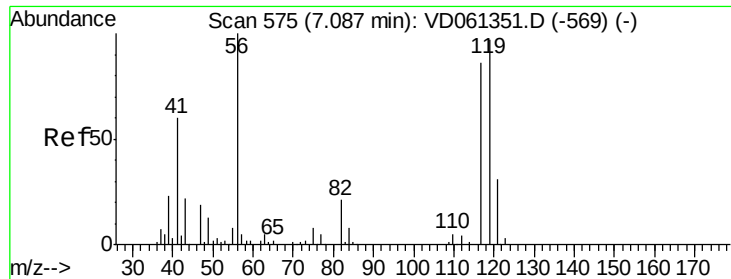
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.2	20.4	61.3#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 1.893 ug/l
 RT: 6.11 min Scan# 476
 Delta R.T. -0.04 min
 Lab File: VD061381.D
 Acq: 28 Mar 2019 6:24

Tgt Ion	Ratio	Lower	Upper
43	100		
61	82.6	13.8	20.8#
70	0.0	7.8	11.8#





#38

Carbon Tetrachloride

Concen: 5.177 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.07 min

Lab File: VD061381.D

Acq: 28 Mar 2019 6:24

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-005-B

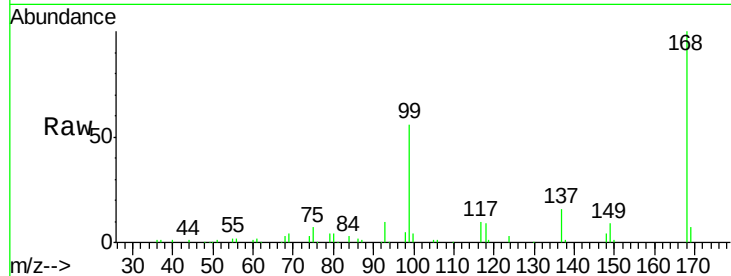
Tot Ion:117 Resp: 50242

Ion Ratio Lower Upper

117 100

119 5.7 80.1 120.1#

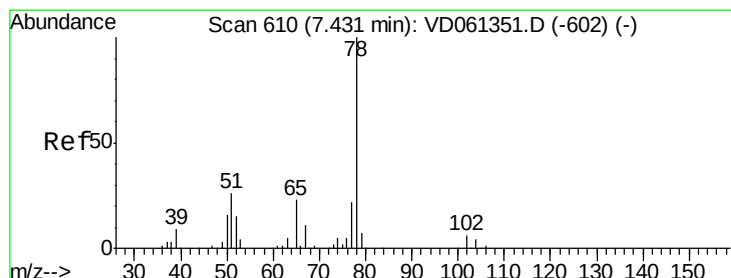
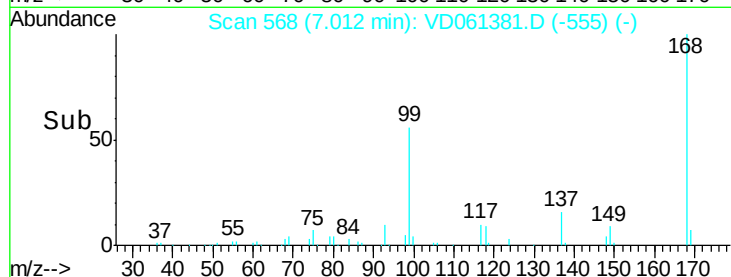
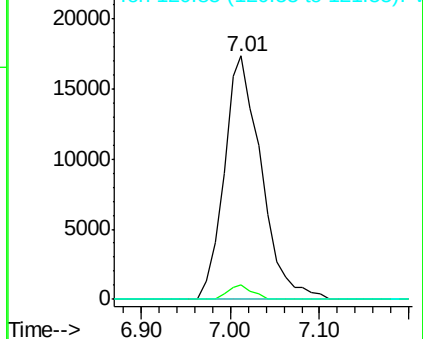
121 0.0 25.6 38.4#



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: 2.028 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.01 min

Lab File: VD061381.D

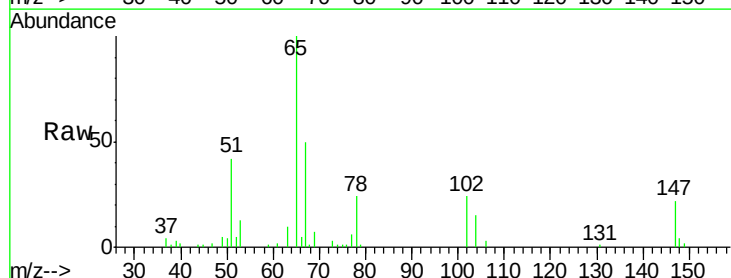
Acq: 28 Mar 2019 6:24

Tgt Ion: 78 Resp: 43385

Ion Ratio Lower Upper

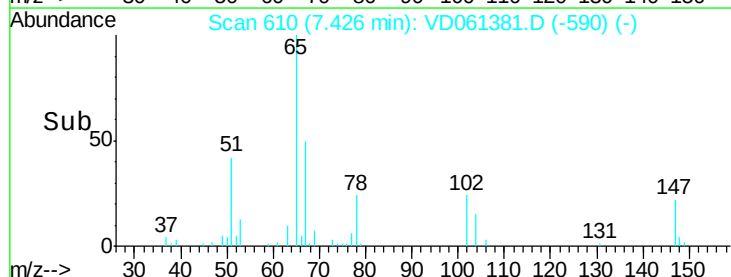
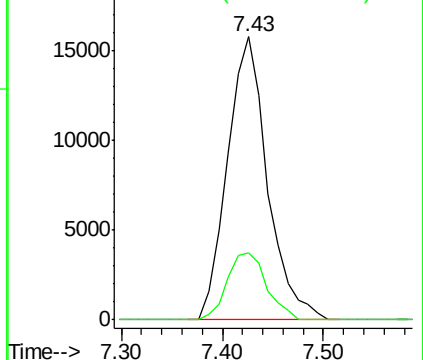
78 100

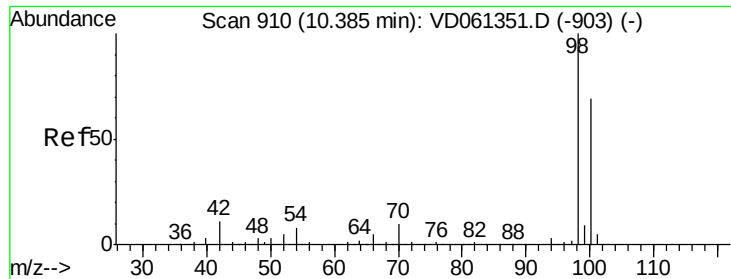
77 23.6 17.8 26.6



Abundance Ion 77.95 (77.65 to 78.65): V

Ion 76.95 (76.65 to 77.65): V

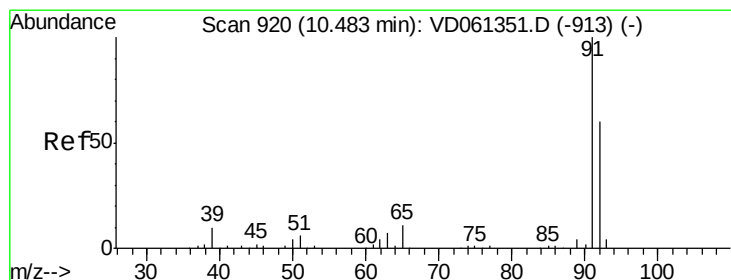
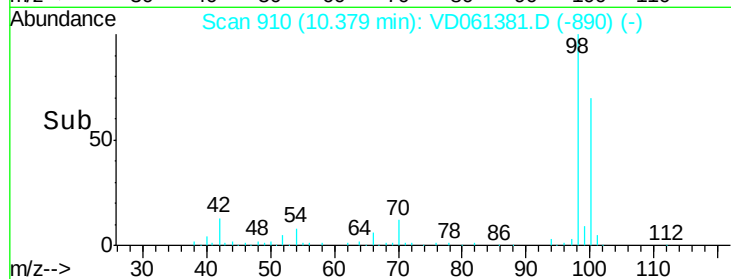
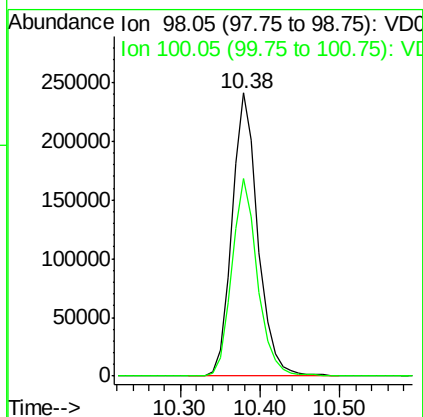
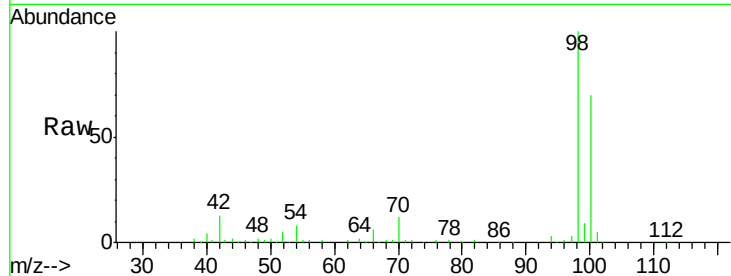




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.38 min Scan# 910
Delta R.T. -0.01 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

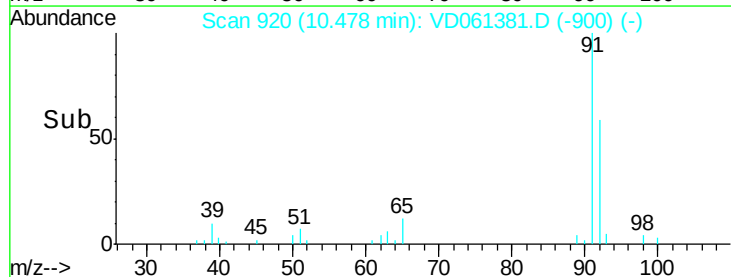
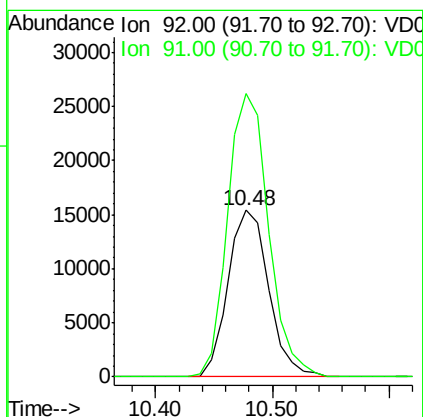
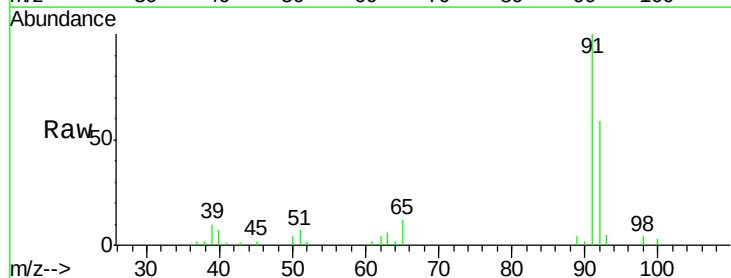
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-005-B

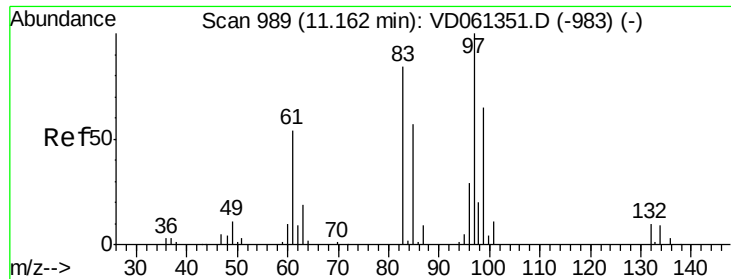
Tot Ion: 98 Resp: 546454
Ion Ratio Lower Upper
98 100
100 69.6 56.2 84.2



#52
Toluene
Concen: 2.833 ug/l
RT: 10.48 min Scan# 920
Delta R.T. -0.01 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

Tgt Ion: 92 Resp: 36967
Ion Ratio Lower Upper
92 100
91 170.1 133.3 199.9





#55

1,1,2-Trichloroethane

Concen: 1.228 ug/l

RT: 11.07 min Scan# 980

Delta R.T. -0.09 min

Lab File: VD061381.D

Acq: 28 Mar 2019 6:24

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-005-B

Tot Ion: 97 Resp: 5603

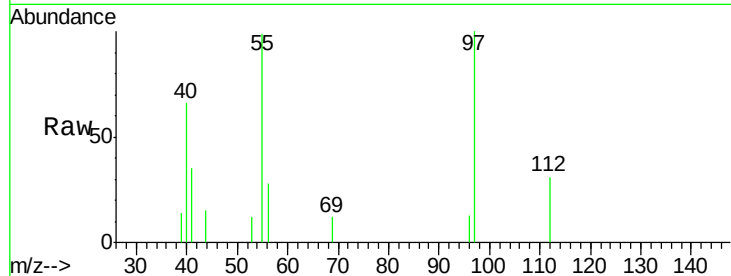
Ion Ratio Lower Upper

97 100

83 0.0 67.0 100.6#

85 0.0 45.4 68.2#

99 0.0 51.9 77.9#

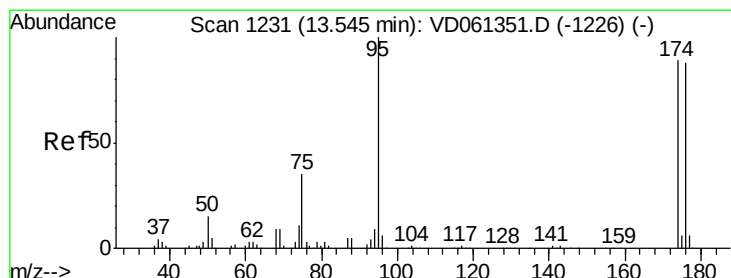
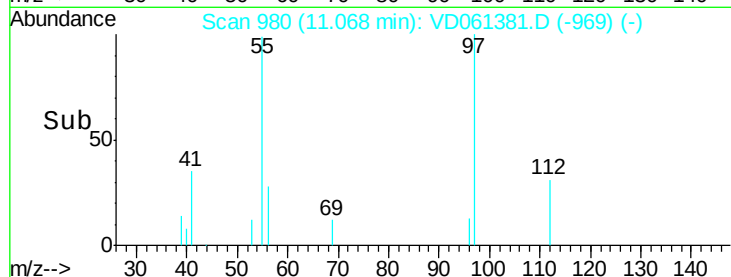
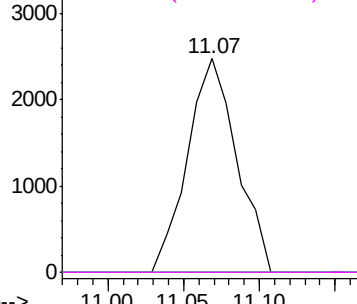


Abundance Ion 96.85 (96.55 to 97.55): VDC

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



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD061381.D

Acq: 28 Mar 2019 6:24

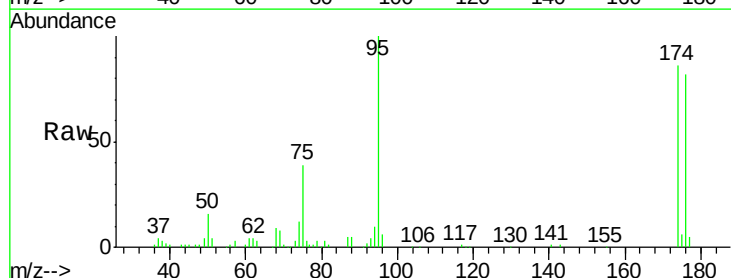
Tgt Ion: 95 Resp: 186160

Ion Ratio Lower Upper

95 100

174 85.7 0.0 178.0

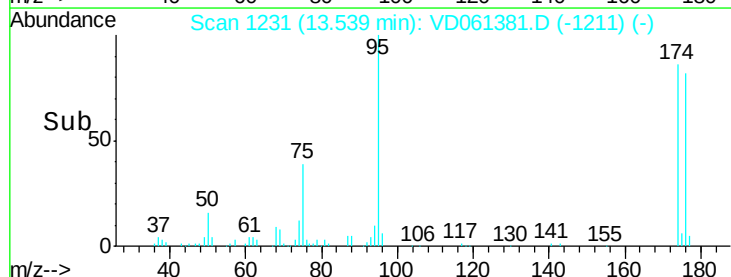
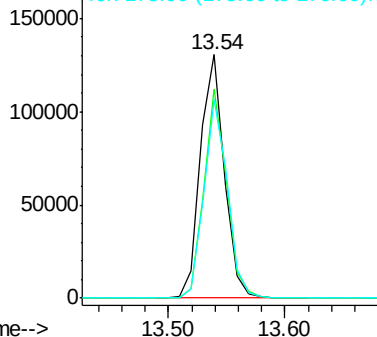
176 81.9 0.0 175.0

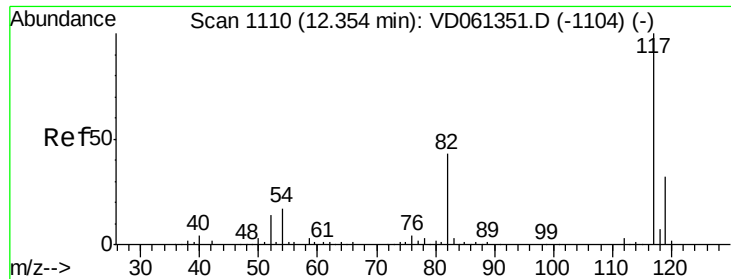


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

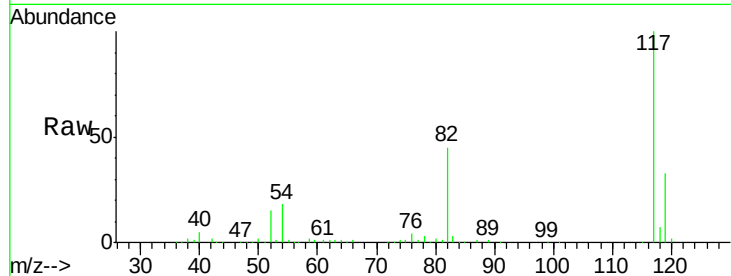




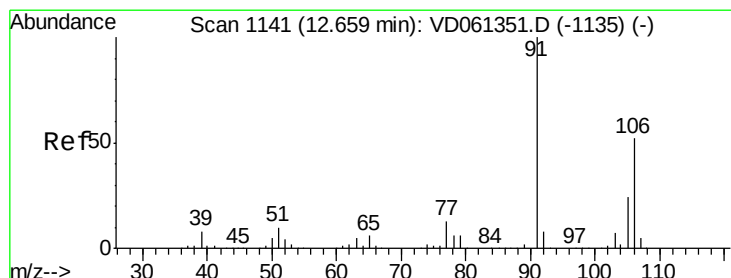
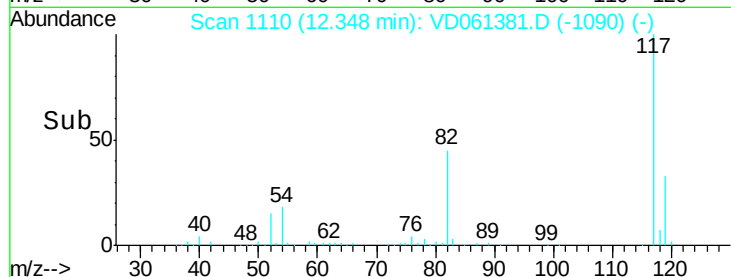
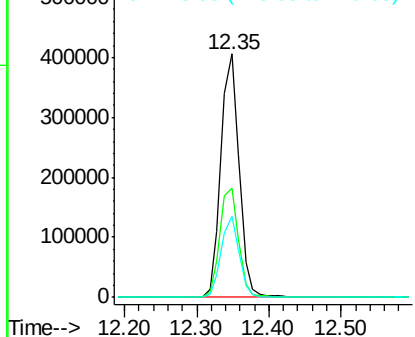
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

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

Tot Ion:117 Resp: 706237
Ion Ratio Lower Upper
117 100
82 45.1 34.4 51.6
119 33.5 25.8 38.6

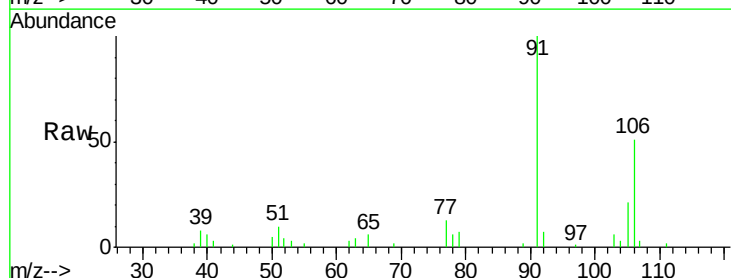


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

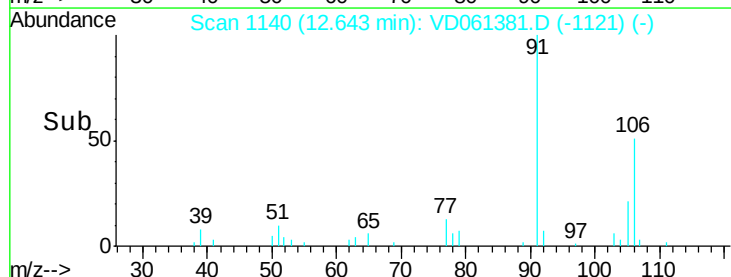
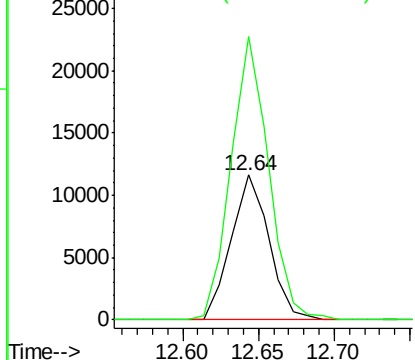


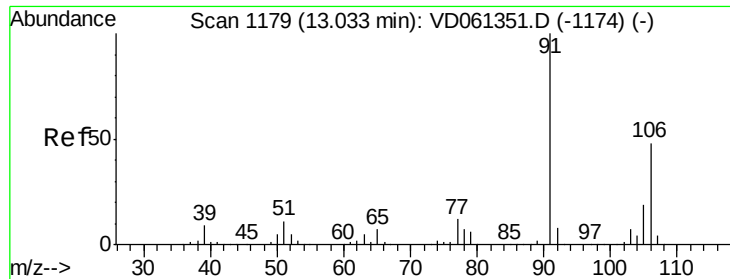
#68
m/p-Xylenes
Concen: 2.418 ug/l
RT: 12.64 min Scan# 1140
Delta R.T. -0.02 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

Tgt Ion:106 Resp: 20177
Ion Ratio Lower Upper
106 100
91 195.5 153.1 229.7



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

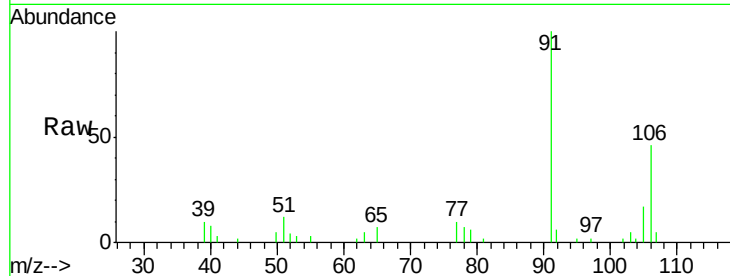




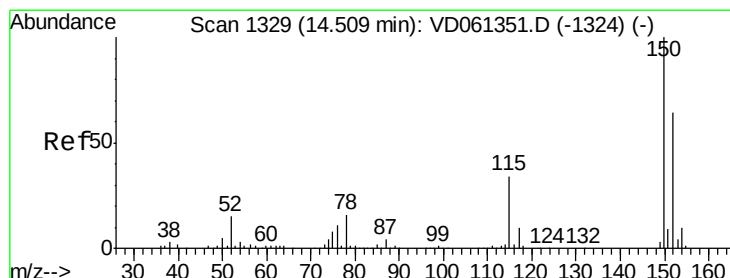
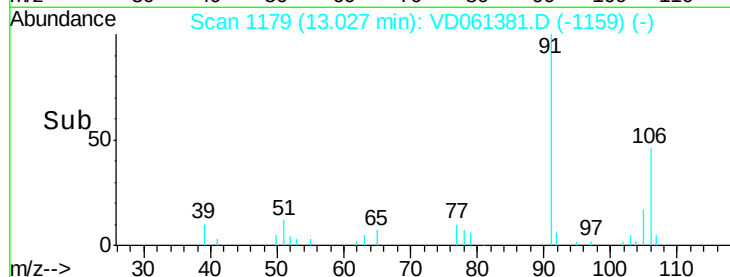
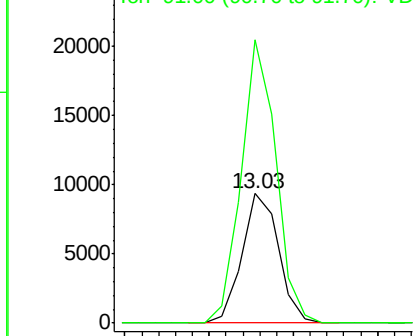
#69
o-Xylene
Concen: 1.733 ug/l
RT: 13.03 min Scan# 1179
Delta R.T. -0.01 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

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

Tot Ion:106 Resp: 14032
Ion Ratio Lower Upper
106 100
91 218.5 103.8 311.3

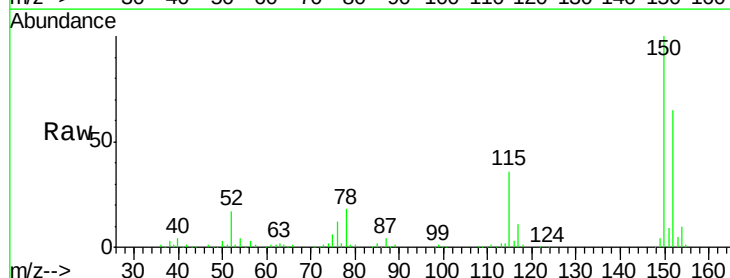


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

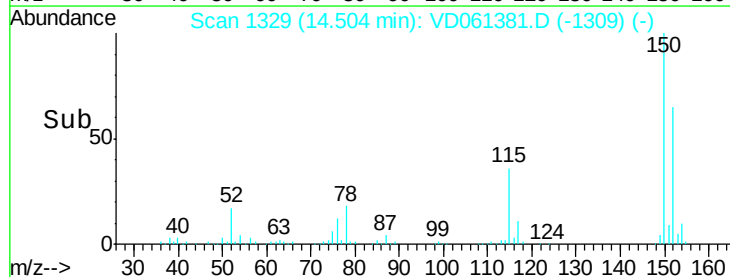
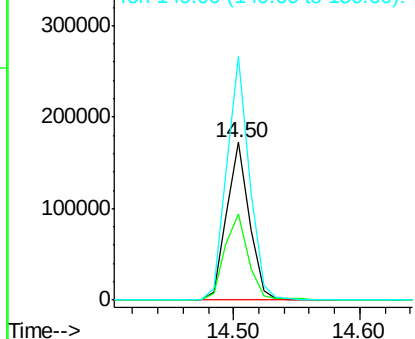


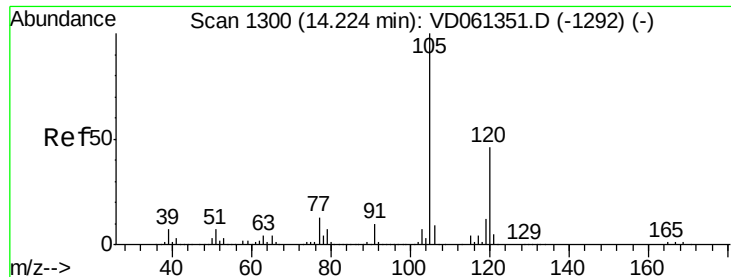
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD061381.D
Acq: 28 Mar 2019 6:24

Tgt Ion:152 Resp: 212345
Ion Ratio Lower Upper
152 100
115 54.9 26.9 80.6
150 154.7 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: 6.266 ug/l

RT: 14.22 min Scan# 1300

Delta R.T. -0.01 min

Lab File: VD061381.D

Acq: 28 Mar 2019 6:24

Instrument :

MSVOA_D

ClientSampleId :

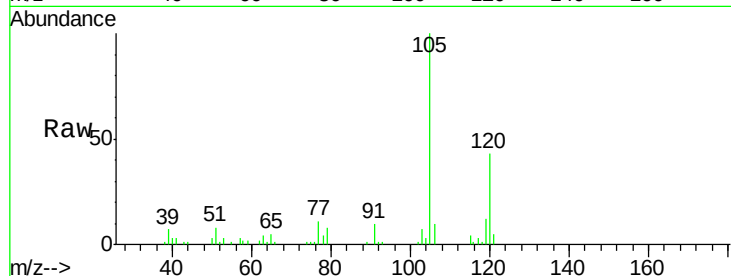
FK-SF-03-005-B

Tot Ion:105 Resp: 77793

Ion Ratio Lower Upper

105 100

120 42.9 22.8 68.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

60000

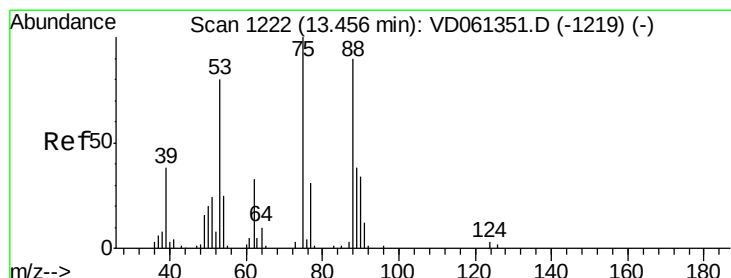
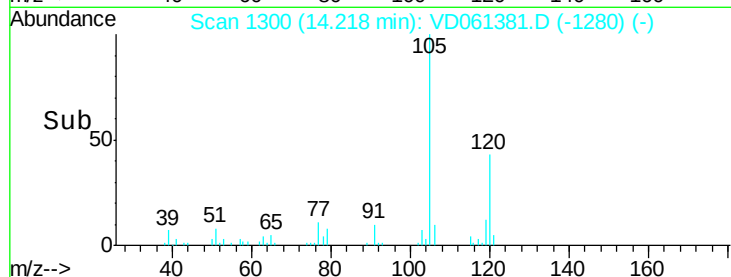
40000

20000

0

14.15 14.20 14.25 14.30

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 74.955 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD061381.D

Acq: 28 Mar 2019 6:24

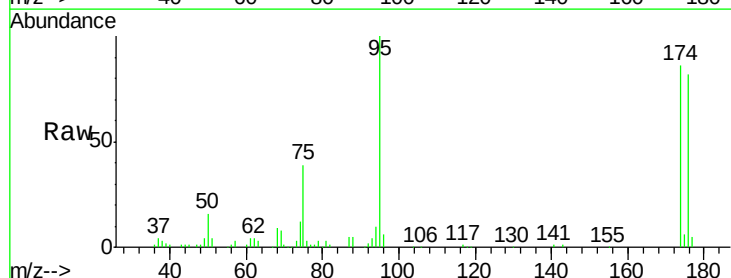
Tgt Ion: 75 Resp: 70101

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

60000

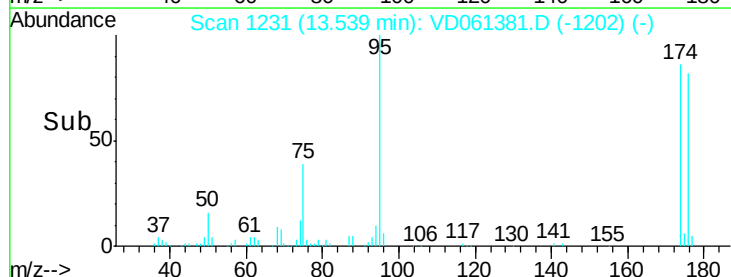
40000

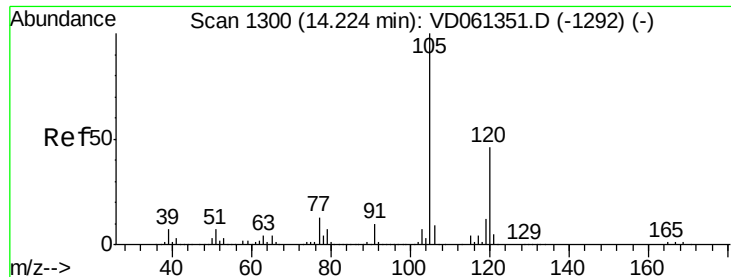
20000

0

13.50 13.55 13.60

Time-->

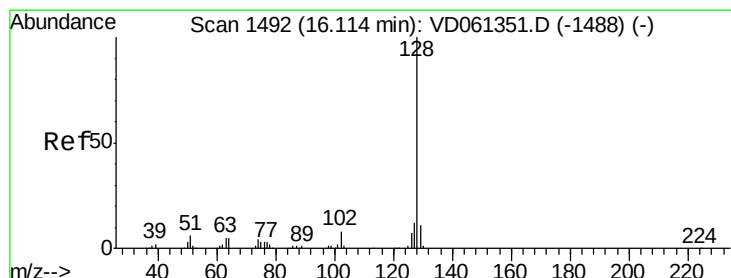
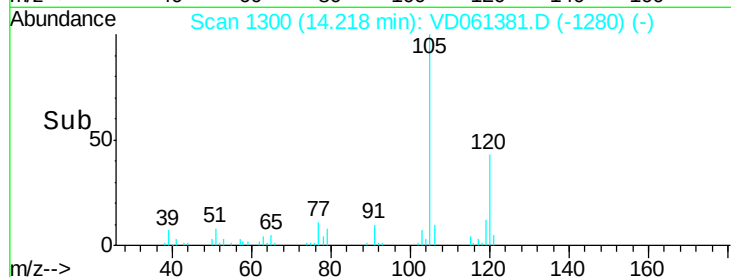
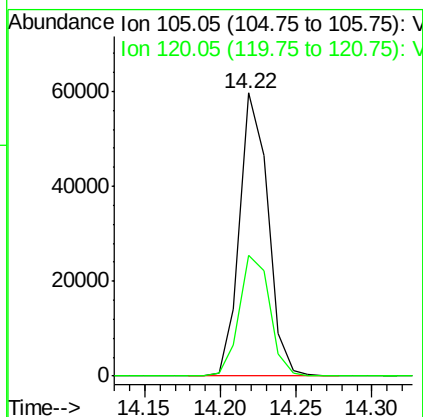
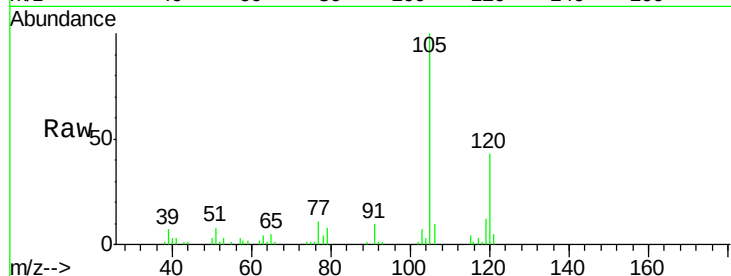




#84
 1,2,4-Trimethylbenzene
 Concen: 6.266 ug/l
 RT: 14.22 min Scan# 1300
 Delta R.T. -0.01 min
 Lab File: VD061381.D
 Acq: 28 Mar 2019 6:24

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

Tot Ion:105 Resp: 77793
 Ion Ratio Lower Upper
 105 100
 120 42.9 22.8 68.4



#95
 Naphthalene
 Concen: 21.814 ug/l
 RT: 16.11 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VD061381.D
 Acq: 28 Mar 2019 6:24

Tgt Ion:128 Resp: 92177
 Ion Ratio Lower Upper
 128 100
 127 12.1 9.9 14.9
 129 10.3 8.9 13.3

