

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042319\
 Data File : VD061978.D
 Acq On : 23 Apr 2019 19:09
 Operator : VA/AP
 Sample : K2540-04
 Misc : 4.89g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-007-B

Quant Time: Apr 24 02:12:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	480545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	758231	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	543520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	178882	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	213608	56.80	ug/l	0.00
Spiked Amount			Recovery	=	113.60%	
35) Dibromofluoromethane	6.92	113	195	0.04	ug/l	-0.02
Spiked Amount			Recovery	=	0.08%	
50) Toluene-d8	10.41	98	594461	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
62) 4-Bromofluorobenzene	13.55	95	194058	38.77	ug/l	0.00
Spiked Amount			Recovery	=	77.54%	

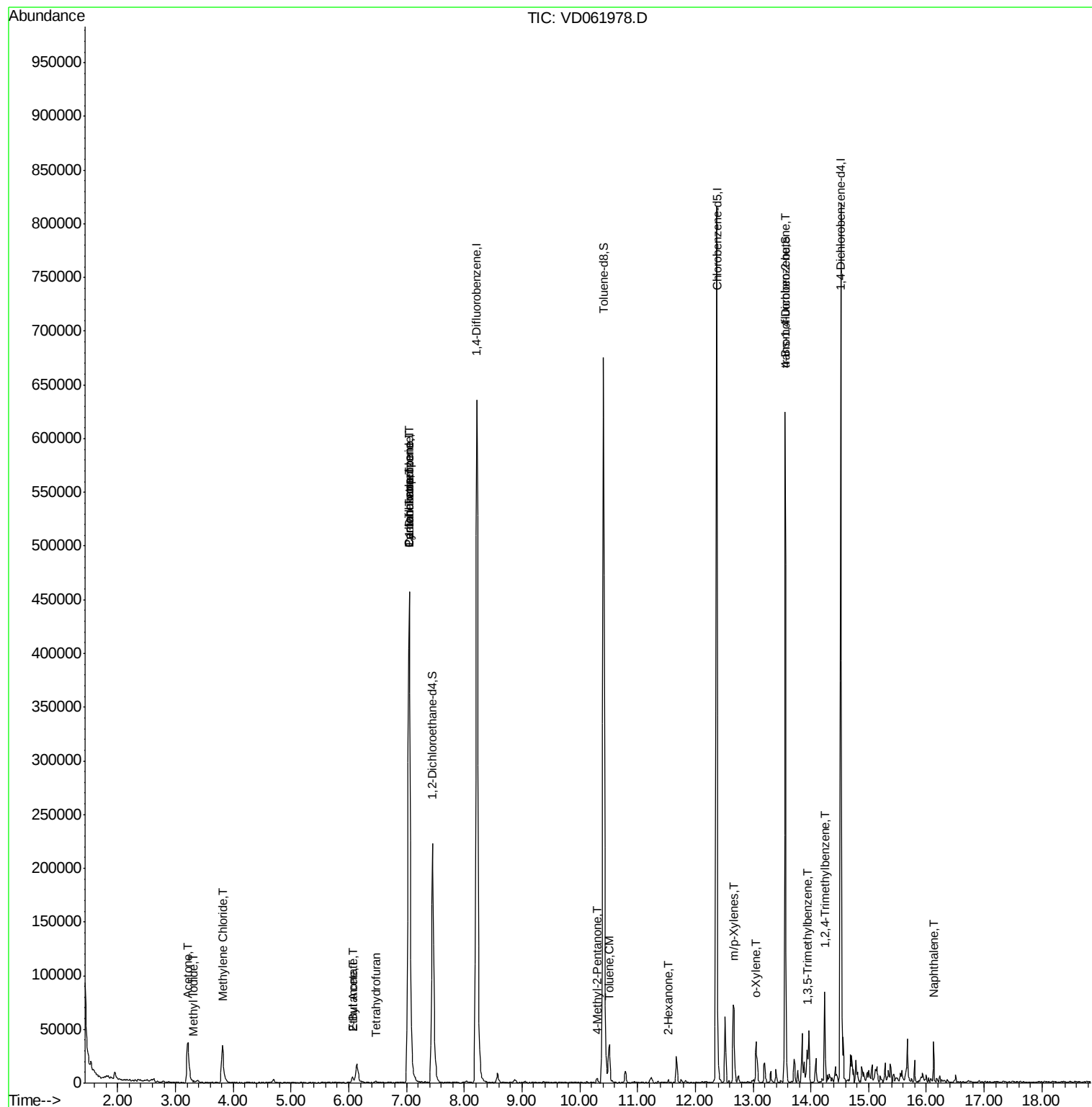
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.32	142	488	5.490	ug/l #	37
16) Acetone	3.21	43	73089	81.389	ug/l	95
20) Methylene Chloride	3.82	84	26569	3.085	ug/l	89
25) 2-Butanone	6.07	43	12915	11.862	ug/l	94
29) Tetrahydrofuran	6.48	42	1041	1.940	ug/l #	30
31) Cyclohexane	7.04	56	7939	1.417	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	32829	5.557	ug/l #	47
37) Ethyl Acetate	6.07	43	12915	5.130	ug/l #	64
38) Carbon Tetrachloride	7.05	117	45514	6.080	ug/l #	16
51) 4-Methyl-2-Pentanone	10.30	43	4200	1.867	ug/l	91
52) Toluene	10.51	92	20268	2.174	ug/l	93
59) 2-Hexanone	11.54	43	1838	1.089	ug/l	75
68) m/p-Xylenes	12.67	106	25781	4.255	ug/l	83
69) o-Xylene	13.05	106	10016	1.807	ug/l	85
80) 1,3,5-Trimethylbenzene	13.94	105	16848	1.771	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.55	75	73826	107.249	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	43299	4.766	ug/l	96
95) Naphthalene	16.12	128	24756	5.747	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

Instrument :

MSVOA_D

ClientSampleId :

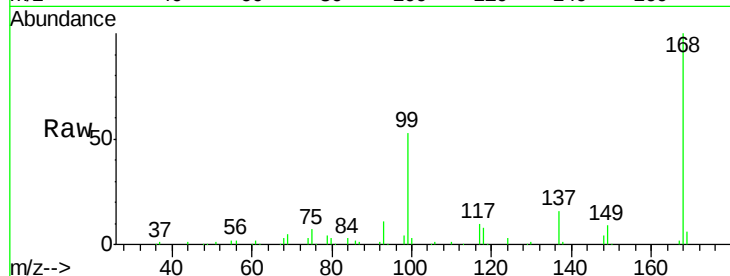
FK-SF-03-007-B

Tot Ion:168 Resp: 480545

Ion Ratio Lower Upper

168 100

99 53.5 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.05

150000

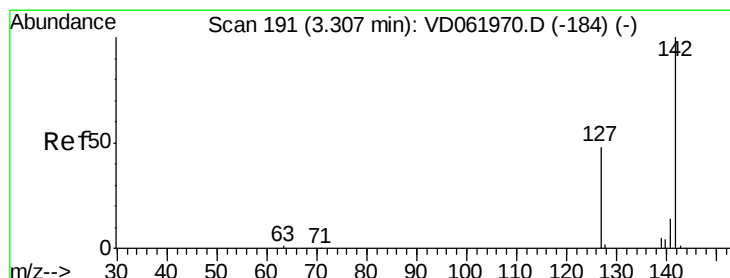
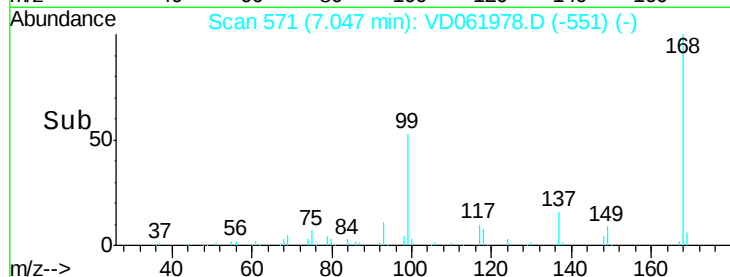
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50000

0

Time-->

6.90 7.00 7.10 7.20 7.30



#10

Methyl Iodide

Concen: 5.490 ug/l

RT: 3.32 min Scan# 192

Delta R.T. -0.01 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

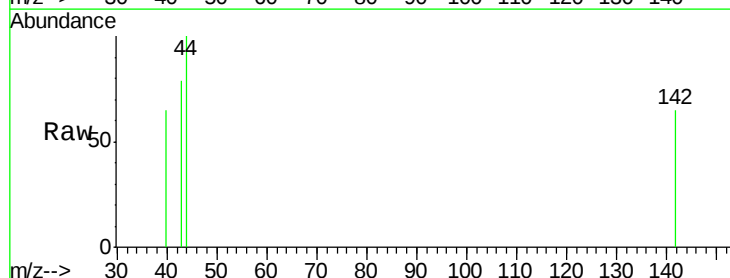
Tgt Ion:142 Resp: 488

Ion Ratio Lower Upper

142 100

127 0.0 38.8 58.2#

141 0.0 11.4 17.0#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.32

600

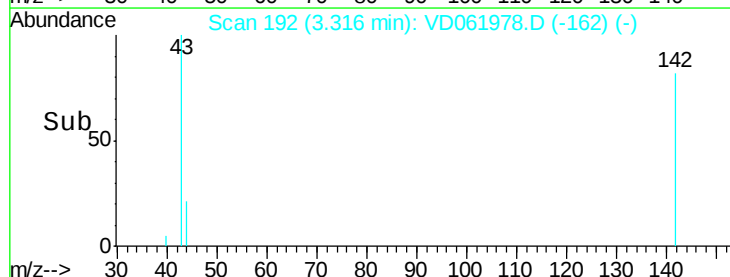
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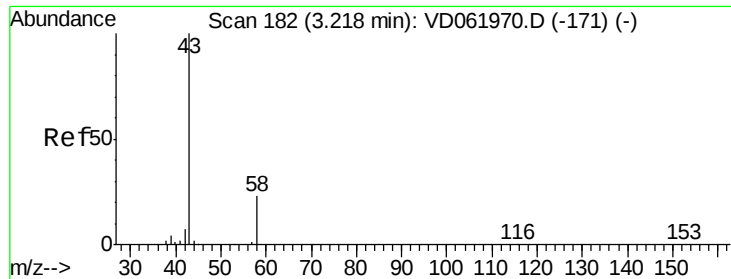
200

0

Time-->

3.28 3.30 3.32 3.34





#16

Acetone

Concen: 81.389 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

Instrument :

MSVOA_D

ClientSampleId :

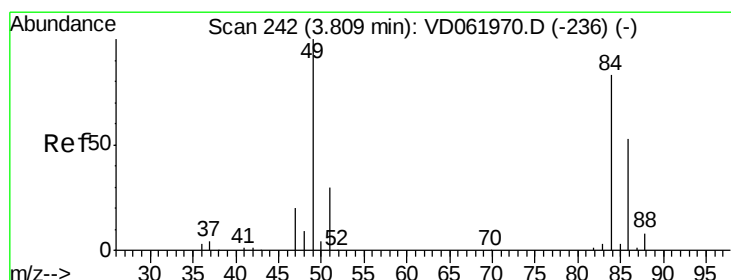
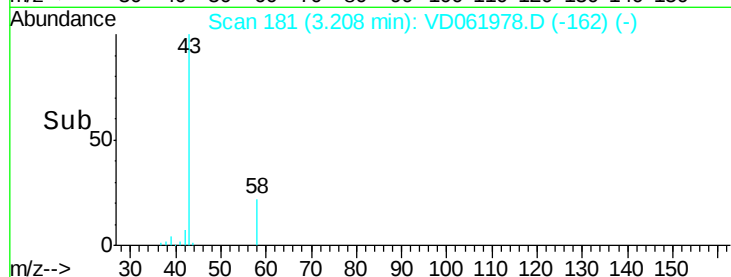
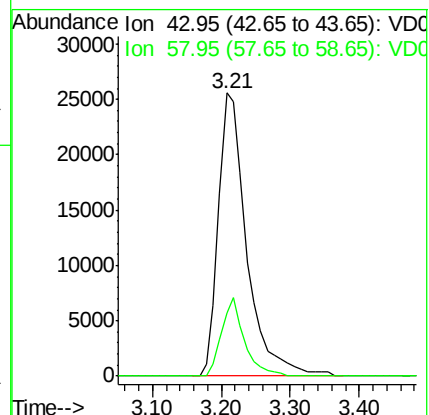
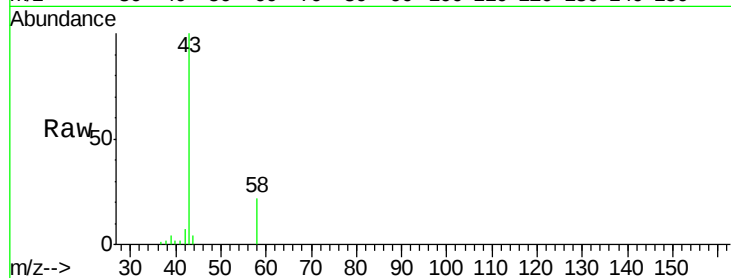
FK-SF-03-007-B

Tot Ion: 43 Resp: 73089

Ion Ratio Lower Upper

43 100

58 22.4 19.9 29.9



#20

Methylene Chloride

Concen: 3.085 ug/l

RT: 3.82 min Scan# 243

Delta R.T. -0.01 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

Tgt Ion: 84 Resp: 26569

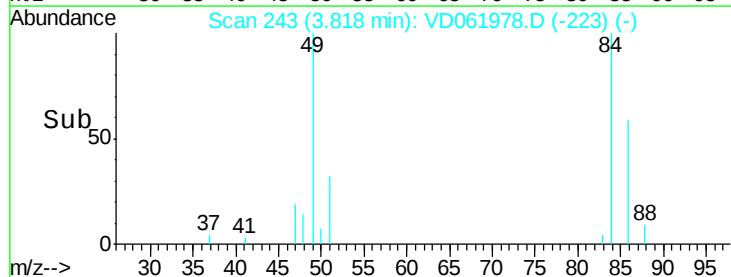
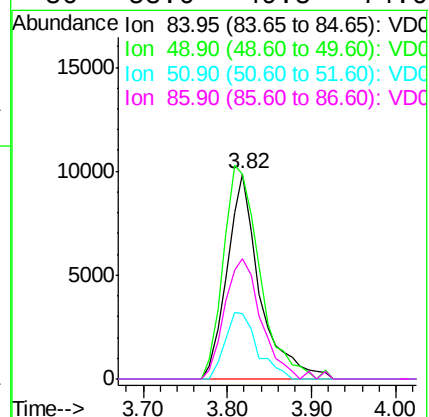
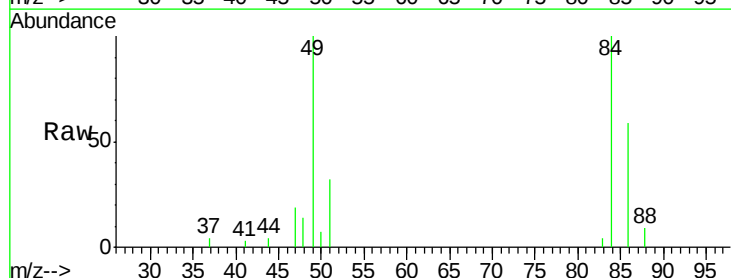
Ion Ratio Lower Upper

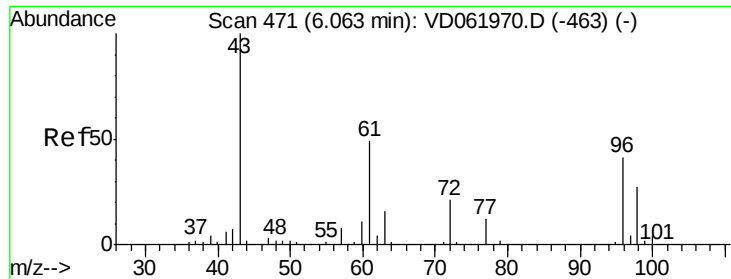
84 100

49 100.0 94.0 141.0

51 31.7 29.0 43.4

86 58.6 49.8 74.6

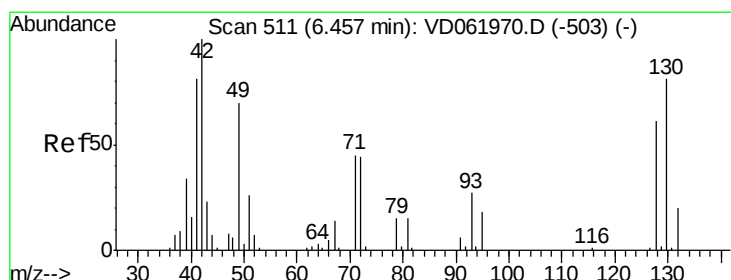
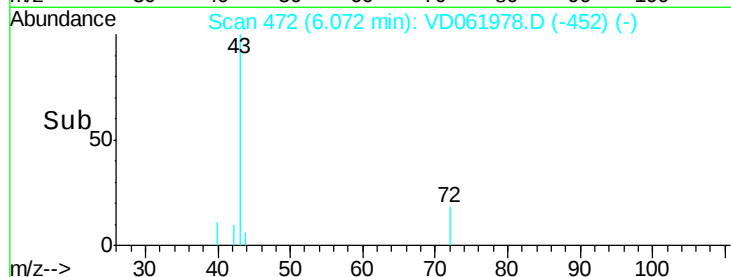
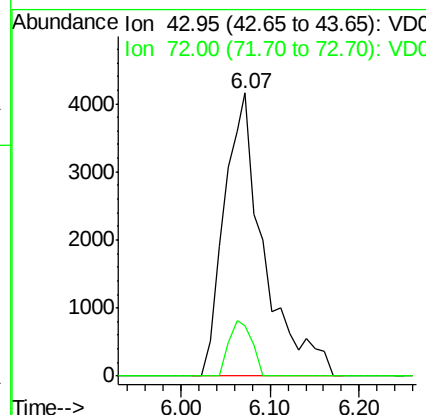
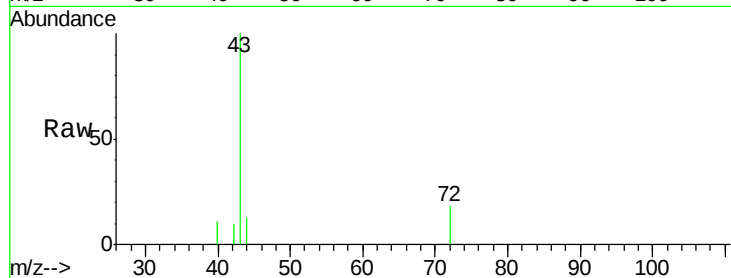




#25
2-Butanone
Concen: 11.862 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.01 min
Lab File: VD061978.D
Acq: 23 Apr 2019 19:09

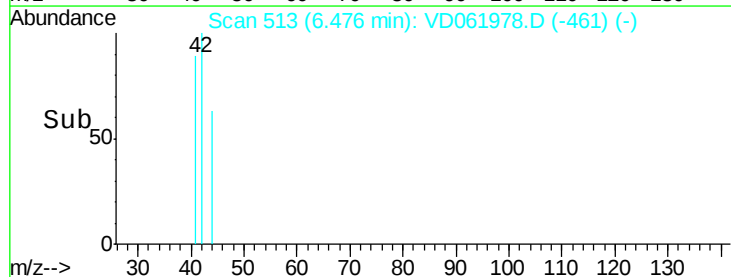
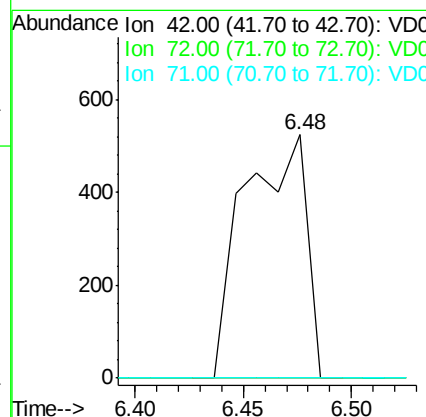
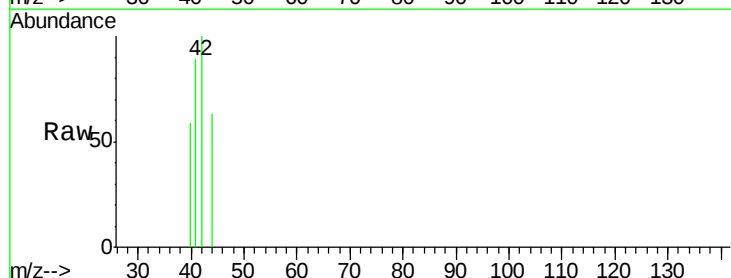
Instrument :
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FK-SF-03-007-B

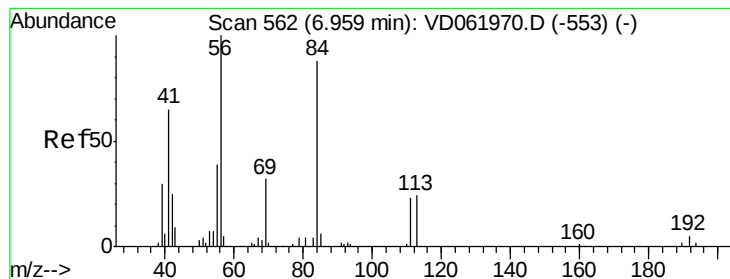
Tot Ion: 43 Resp: 12915
Ion Ratio Lower Upper
43 100
72 17.7 16.2 24.4



#29
Tetrahydrofuran
Concen: 1.940 ug/l
RT: 6.48 min Scan# 513
Delta R.T. 0.01 min
Lab File: VD061978.D
Acq: 23 Apr 2019 19:09

Tgt Ion: 42 Resp: 1041
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 36.7 55.1#





#31

Cyclohexane

Concen: 1.417 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.07 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-B

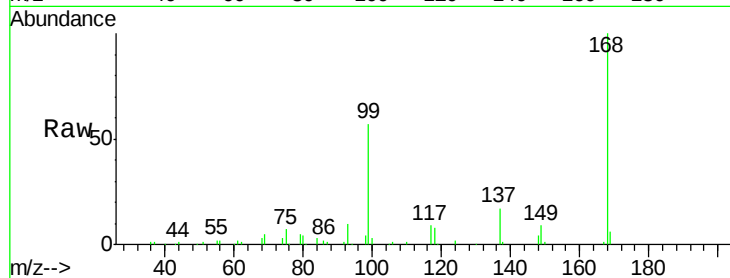
Tot Ion: 56 Resp: 7939

Ion Ratio Lower Upper

56 100

69 250.5 25.8 38.6#

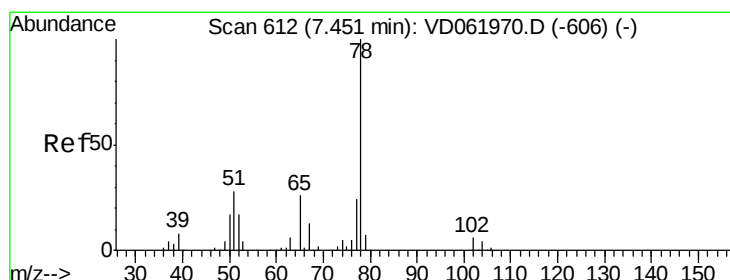
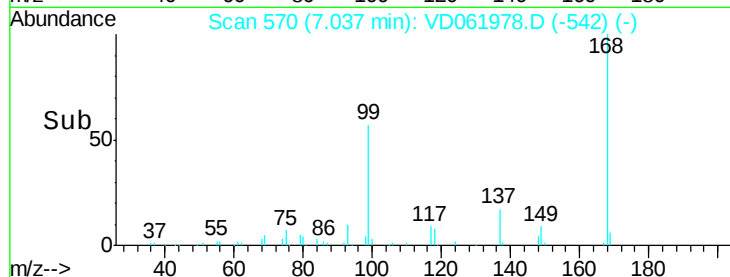
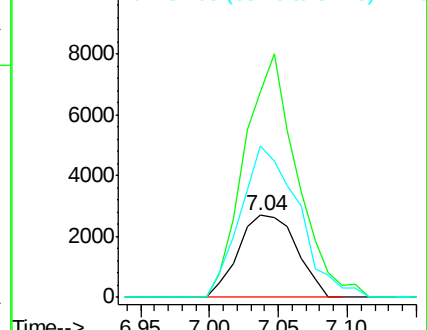
84 184.6 72.2 108.4#



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: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD061978.D

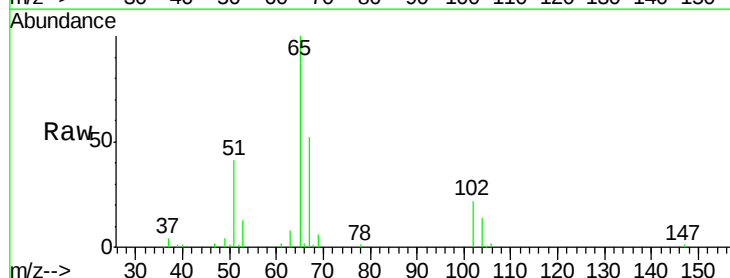
Acq: 23 Apr 2019 19:09

Tgt Ion: 65 Resp: 213608

Ion Ratio Lower Upper

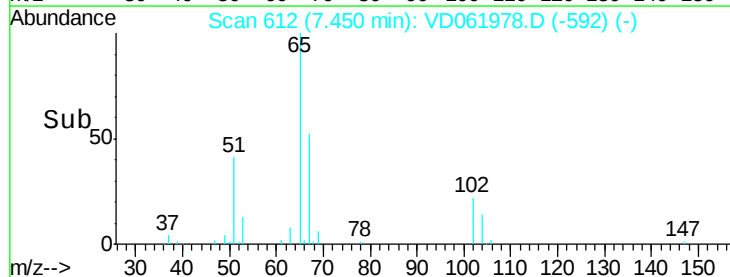
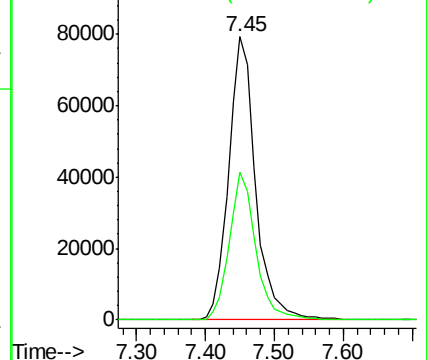
65 100

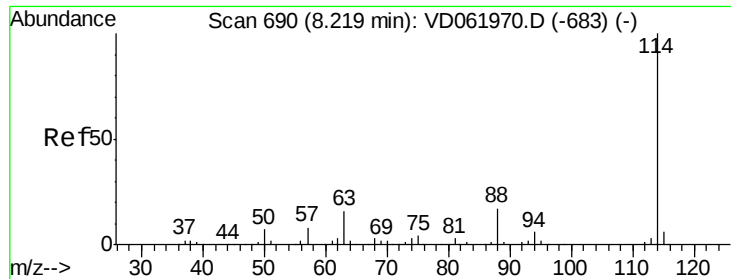
67 52.1 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

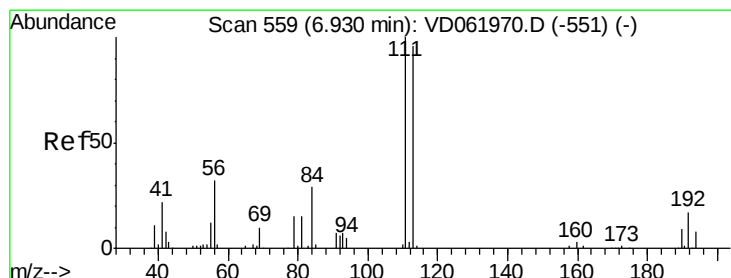
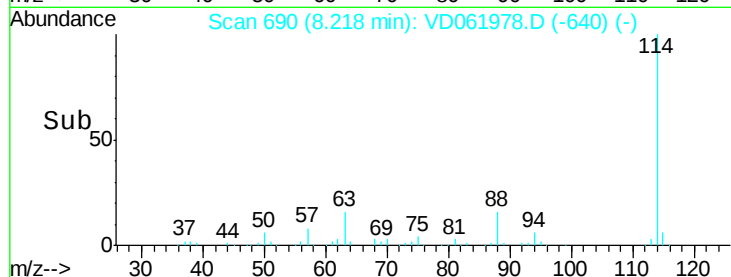
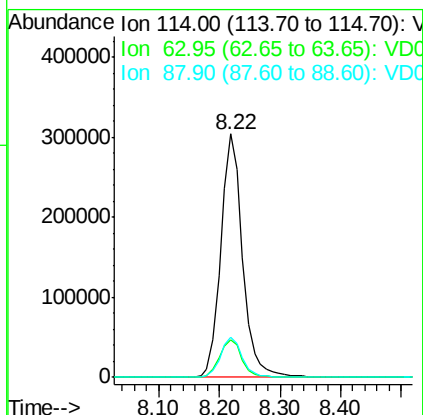
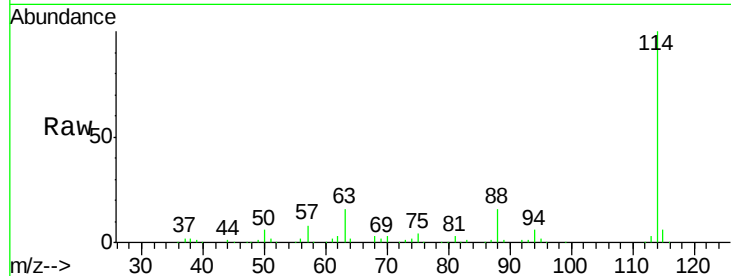




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VD061978.D
 Acq: 23 Apr 2019 19:09

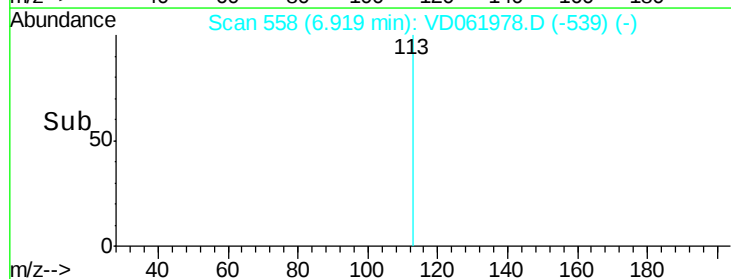
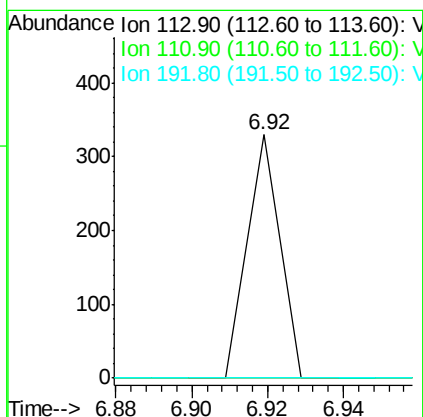
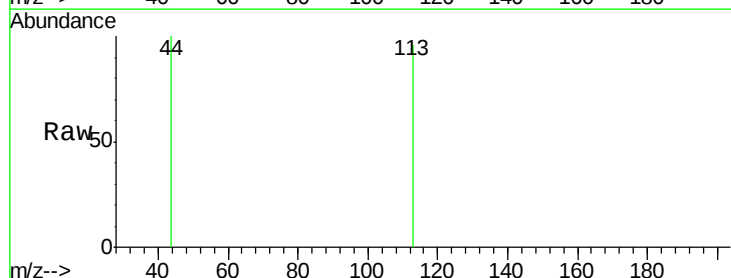
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-007-B

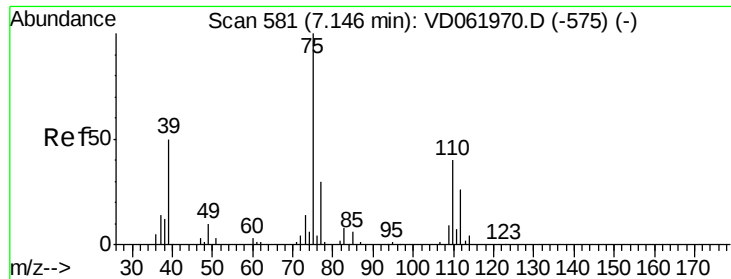
Tot Ion:114 Resp: 758231
 Ion Ratio Lower Upper
 114 100
 63 15.6 0.0 32.4
 88 16.5 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.02 min
 Lab File: VD061978.D
 Acq: 23 Apr 2019 19:09

Tgt Ion:113 Resp: 195
 Ion Ratio Lower Upper
 113 100
 111 0.0 78.5 117.7#
 192 0.0 13.0 19.4#





#36

1,1-Dichloropropene

Concen: 5.557 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-B

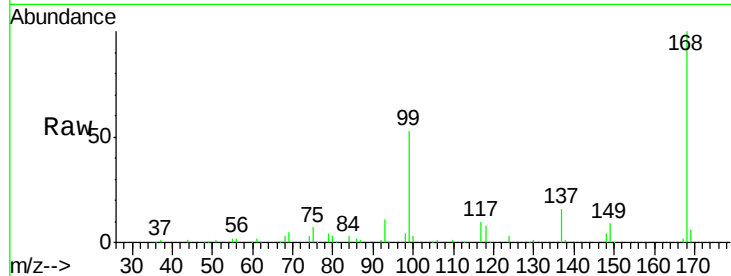
Tot Ion: 75 Resp: 32829

Ion Ratio Lower Upper

75 100

110 7.9 19.1 57.1#

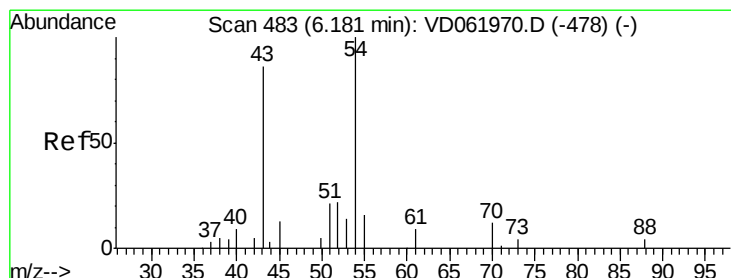
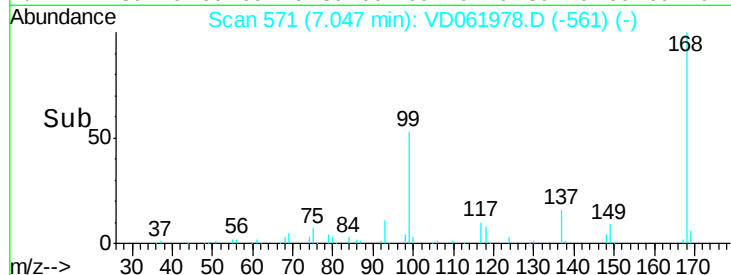
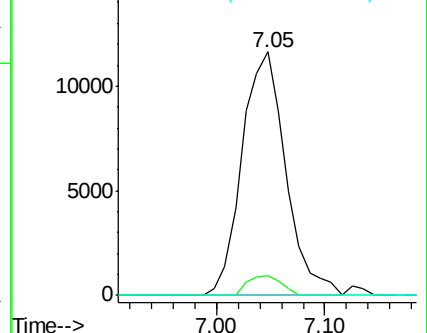
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 5.130 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.11 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

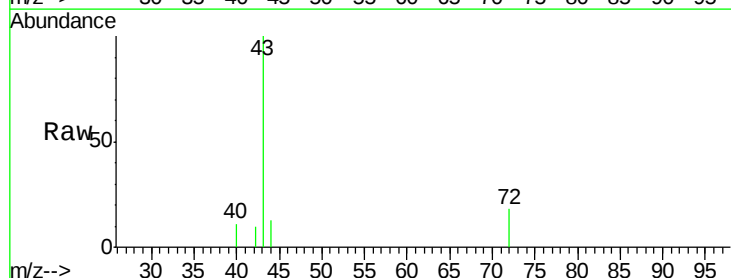
Tgt Ion: 43 Resp: 12915

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

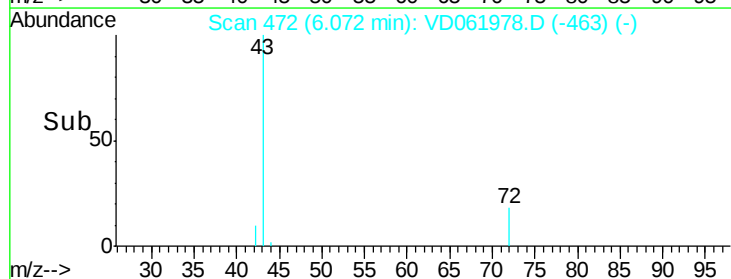
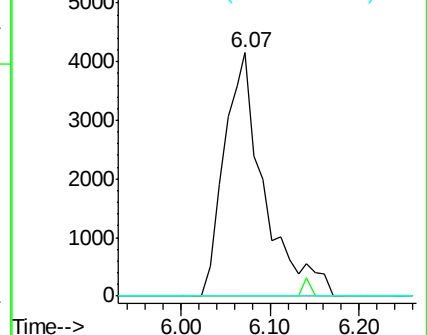
70 0.0 7.8 11.6#

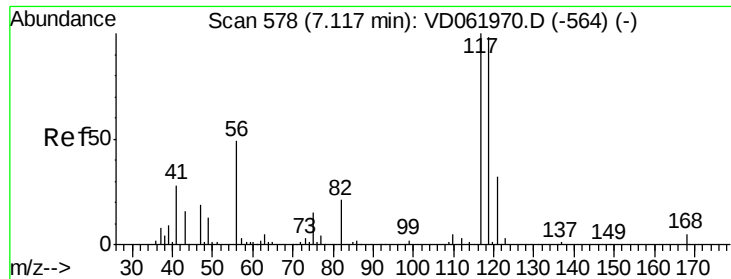


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.080 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-B

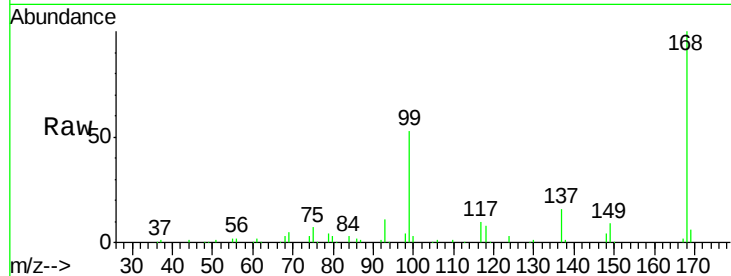
Tot Ion:117 Resp: 45514

Ion Ratio Lower Upper

117 100

119 4.7 75.8 113.8#

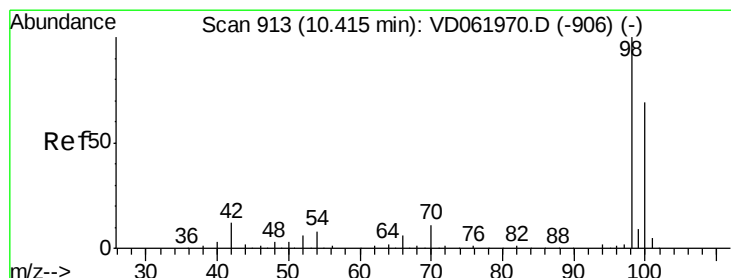
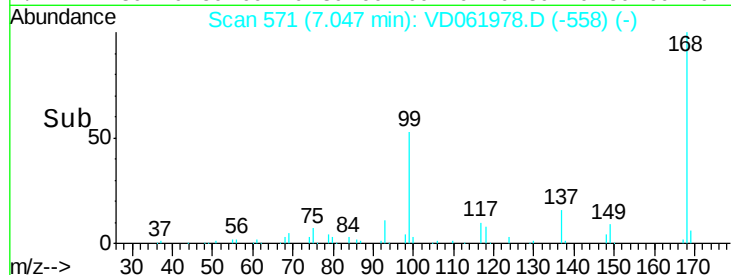
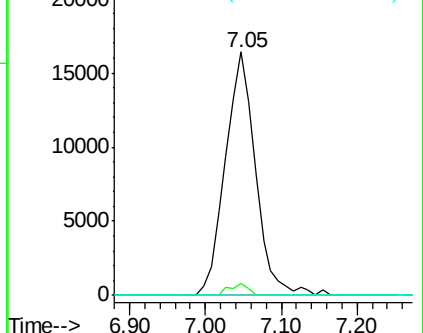
121 0.0 25.9 38.9#



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD061978.D

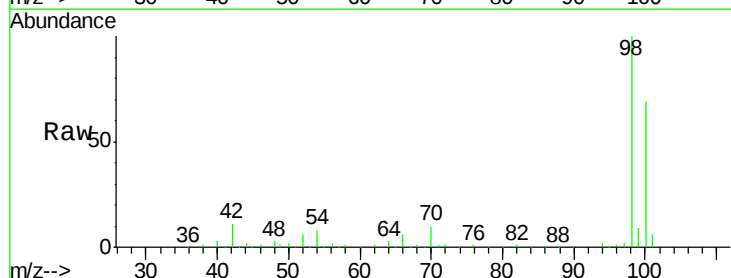
Acq: 23 Apr 2019 19:09

Tgt Ion: 98 Resp: 594461

Ion Ratio Lower Upper

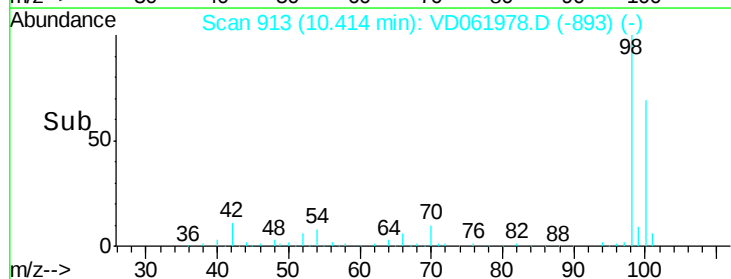
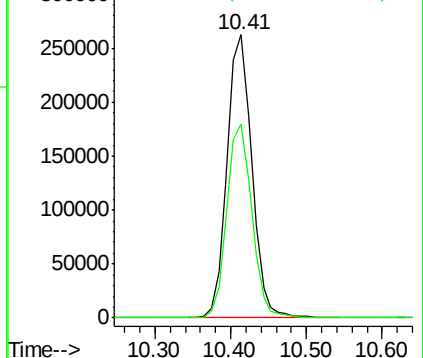
98 100

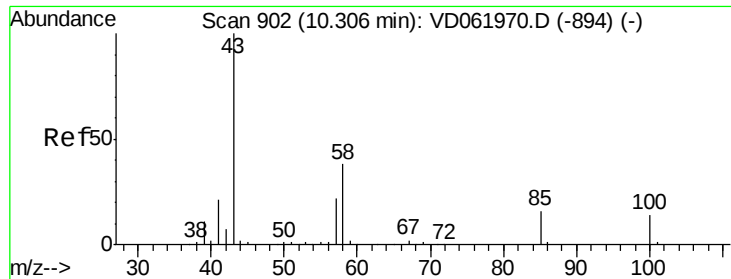
100 68.5 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.867 ug/l

RT: 10.30 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

Instrument :

MSVOA_D

ClientSampleId :

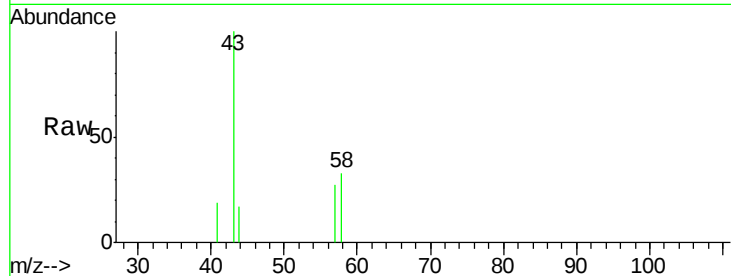
FK-SF-03-007-B

Tot Ion: 43 Resp: 4200

Ion Ratio Lower Upper

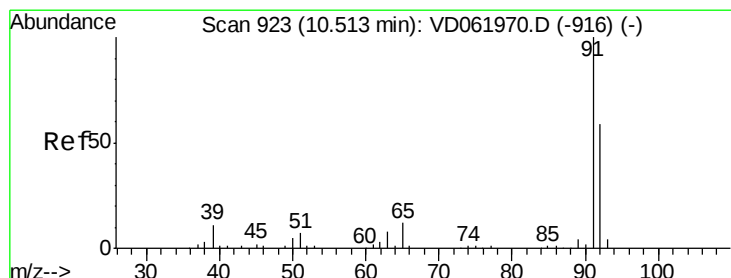
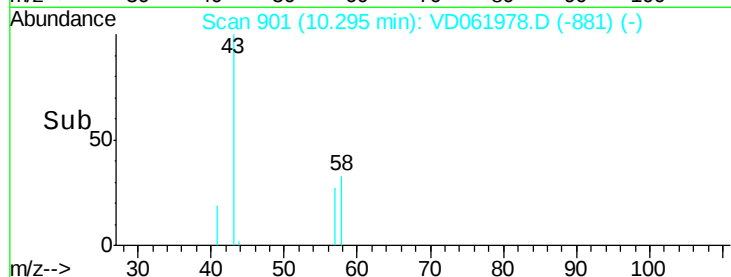
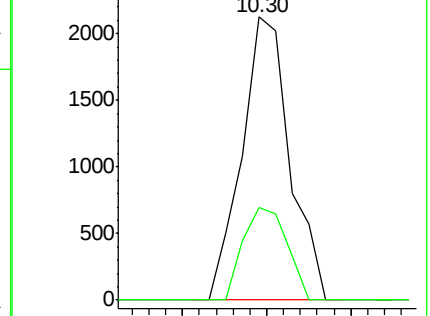
43 100

58 32.7 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 2.174 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.01 min

Lab File: VD061978.D

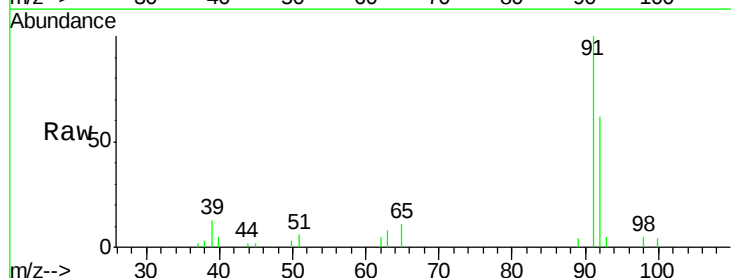
Acq: 23 Apr 2019 19:09

Tgt Ion: 92 Resp: 20268

Ion Ratio Lower Upper

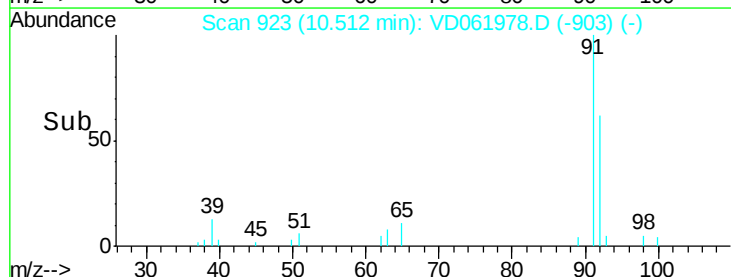
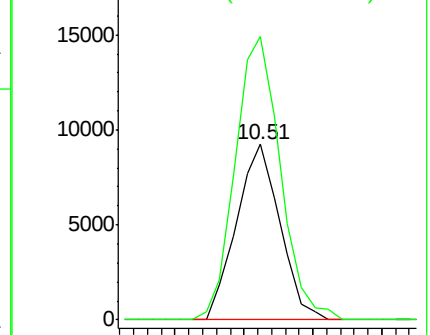
92 100

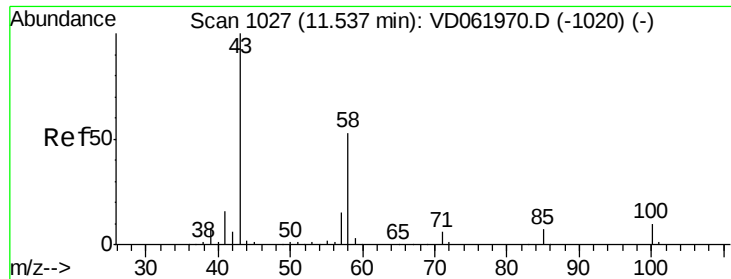
91 161.3 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

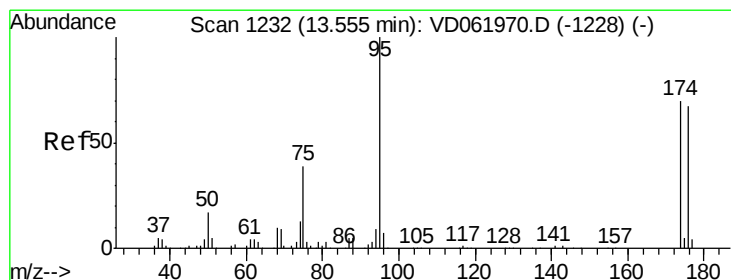
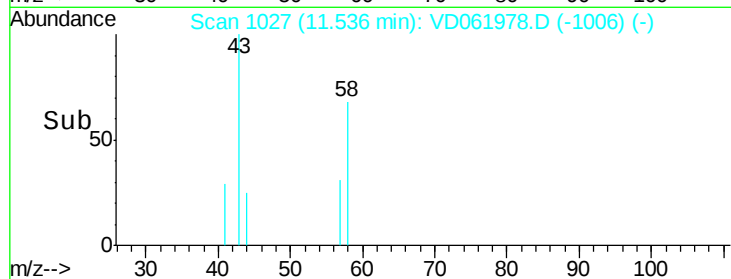
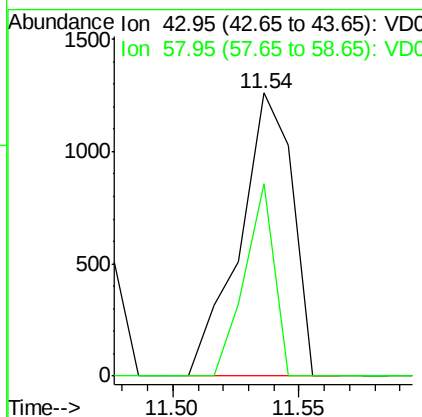
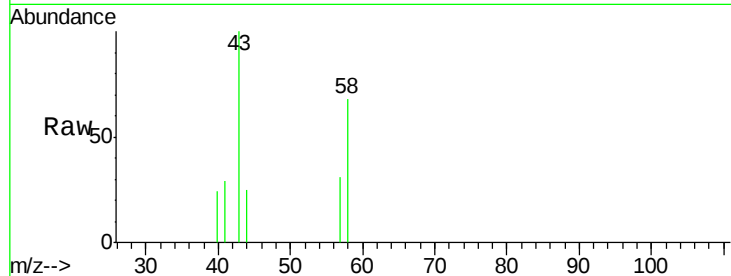




#59
2-Hexanone
Concen: 1.089 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. 0.00 min
Lab File: VD061978.D
Acq: 23 Apr 2019 19:09

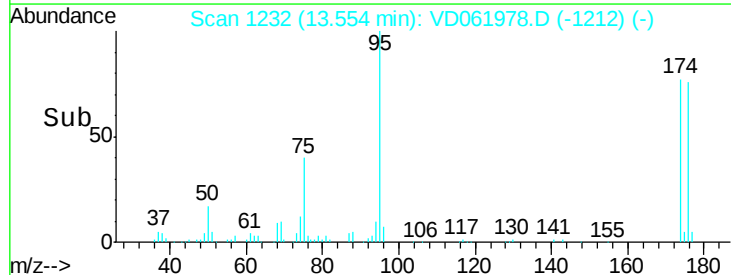
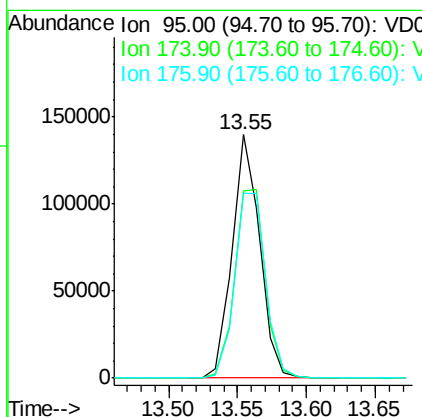
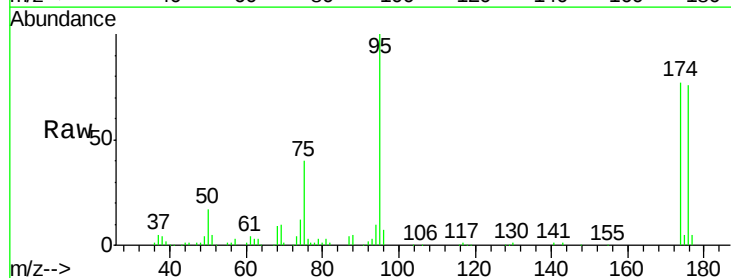
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-007-B

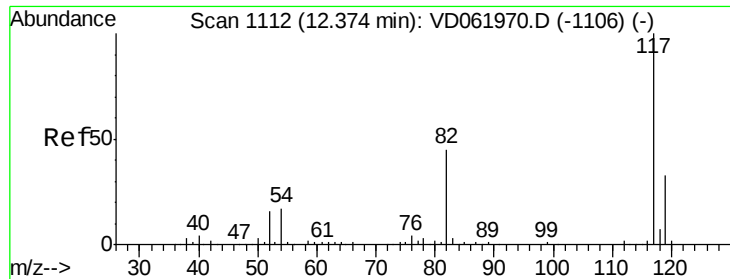
Tot Ion: 43 Resp: 1838
Ion Ratio Lower Upper
43 100
58 68.1 25.4 76.4



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD061978.D
Acq: 23 Apr 2019 19:09

Tgt Ion: 95 Resp: 194058
Ion Ratio Lower Upper
95 100
174 76.8 0.0 181.8
176 76.0 0.0 174.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-007-B

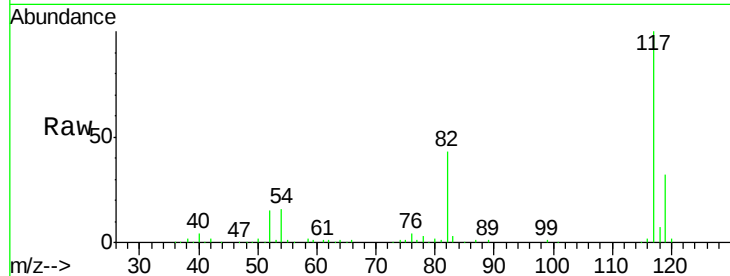
Tot Ion:117 Resp: 543520

Ion Ratio Lower Upper

117 100

82 43.3 36.2 54.2

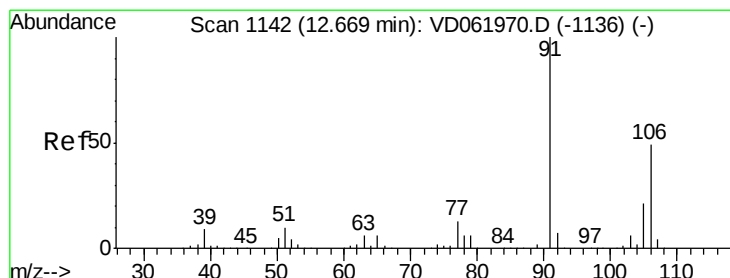
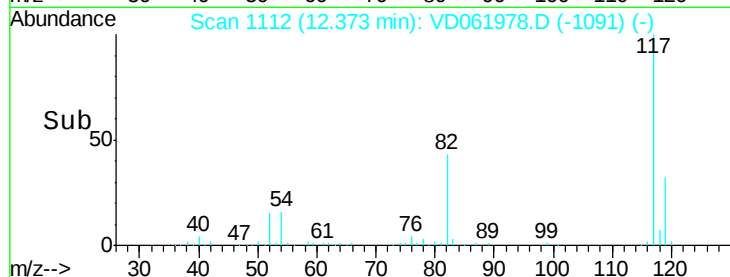
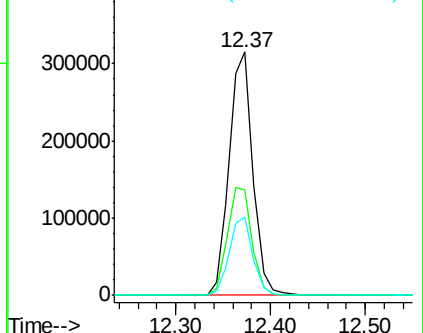
119 32.4 26.2 39.4



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



#68

m/p-Xylenes

Concen: 4.255 ug/l

RT: 12.67 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VD061978.D

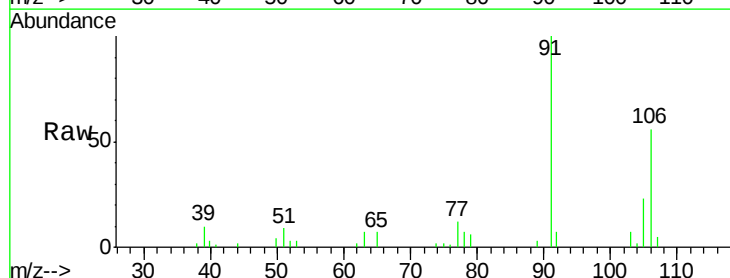
Acq: 23 Apr 2019 19:09

Tgt Ion:106 Resp: 25781

Ion Ratio Lower Upper

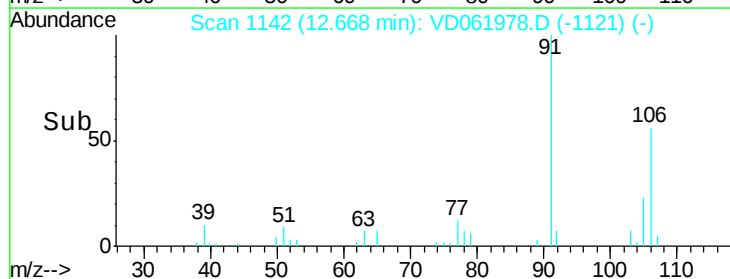
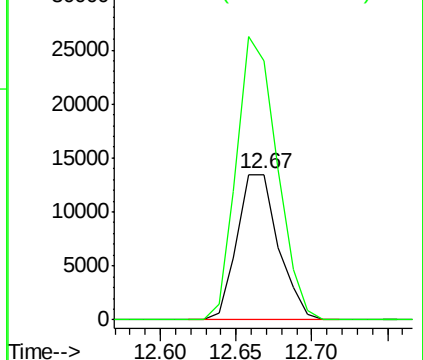
106 100

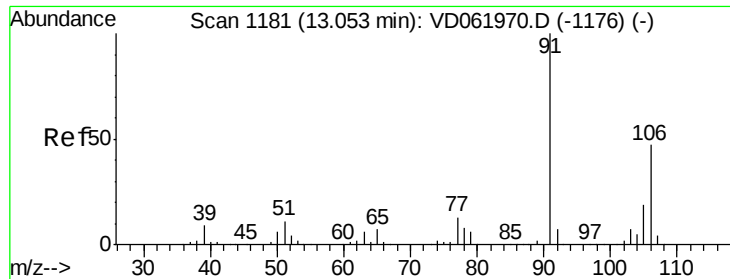
91 178.2 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V

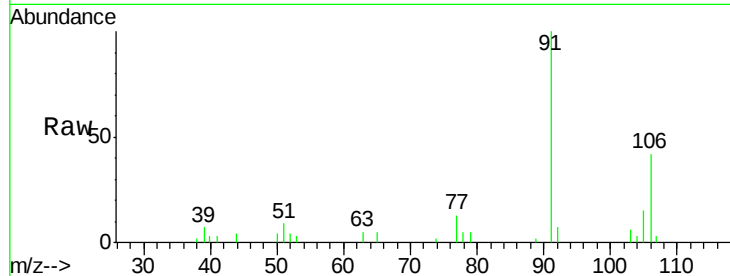




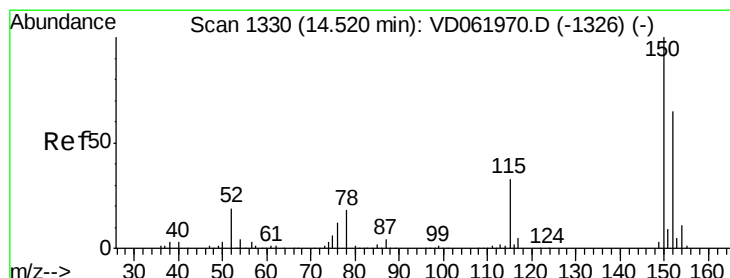
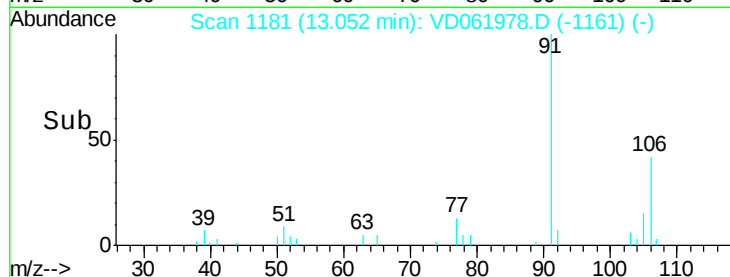
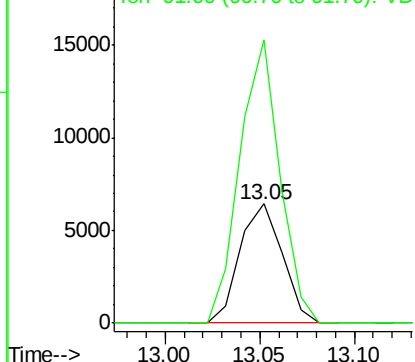
#69
o-Xylene
Concen: 1.807 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD061978.D
Acq: 23 Apr 2019 19:09

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-007-B

Tot Ion:106 Resp: 10016
Ion Ratio Lower Upper
106 100
91 237.4 106.7 319.9

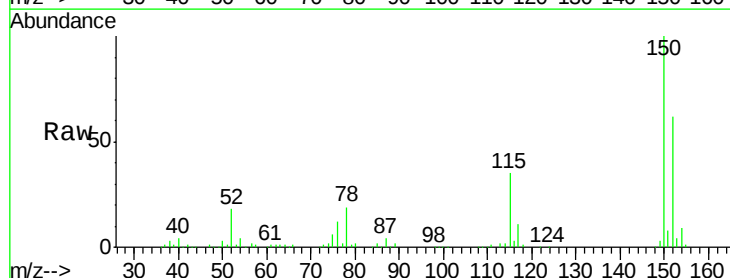


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

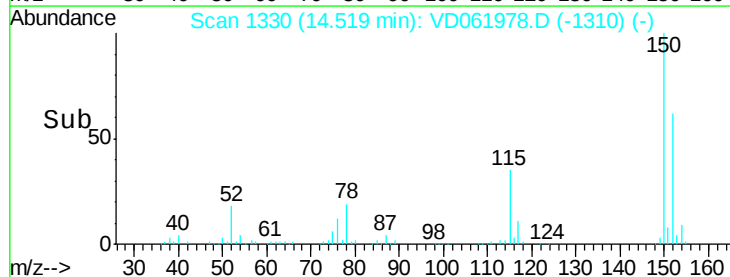
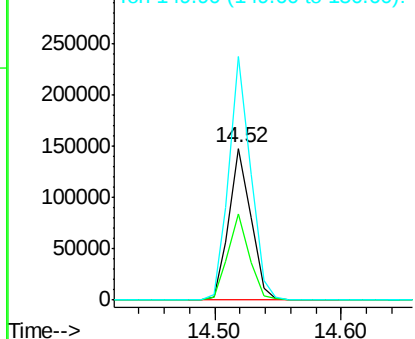


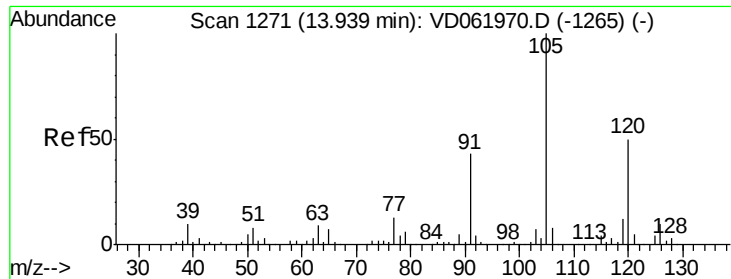
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD061978.D
Acq: 23 Apr 2019 19:09

Tgt Ion:152 Resp: 178882
Ion Ratio Lower Upper
152 100
115 56.8 30.9 92.7
150 160.8 0.0 314.8



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





#80

1,3,5-Trimethylbenzene

Concen: 1.771 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

Instrument :

MSVOA_D

ClientSampleId :

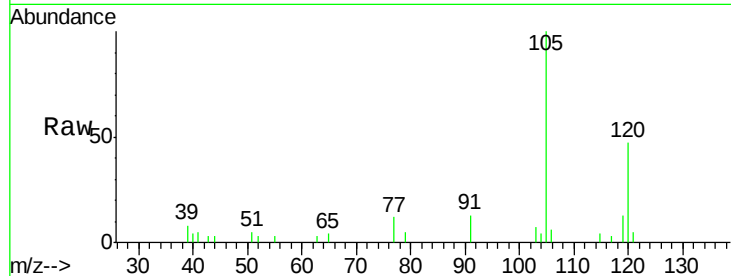
FK-SF-03-007-B

Tot Ion:105 Resp: 16848

Ion Ratio Lower Upper

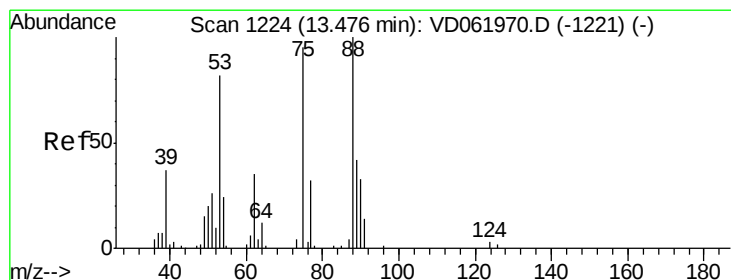
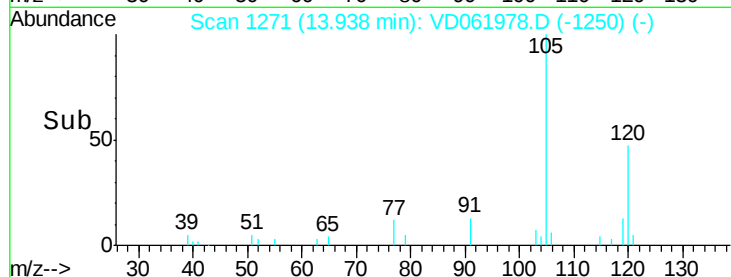
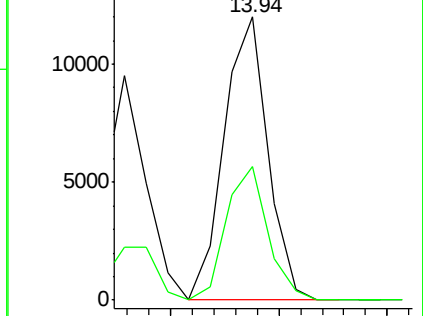
105 100

120 47.0 24.0 72.0



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: 107.249 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD061978.D

Acq: 23 Apr 2019 19:09

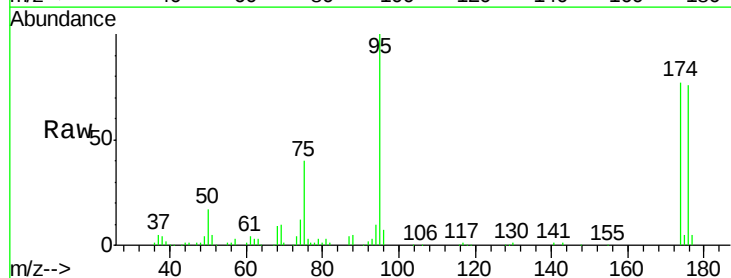
Tgt Ion: 75 Resp: 73826

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

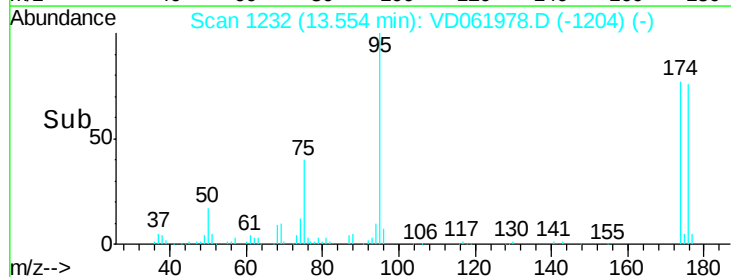
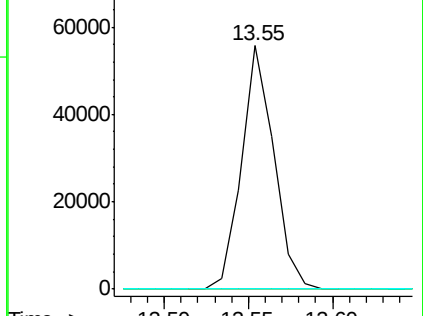
89 0.0 35.0 52.6#

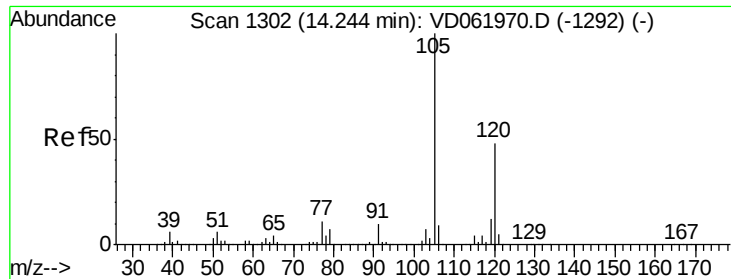


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

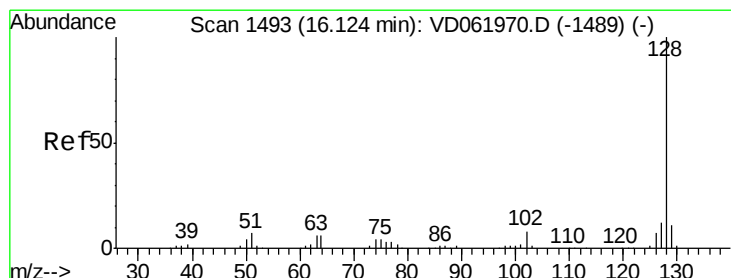
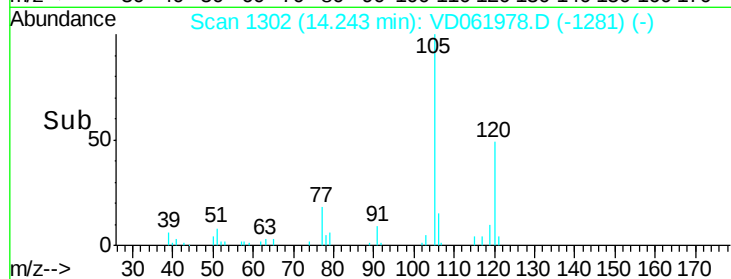
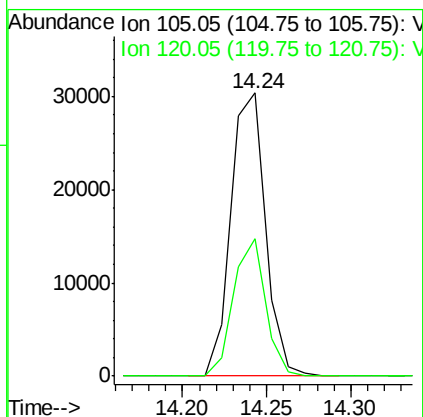
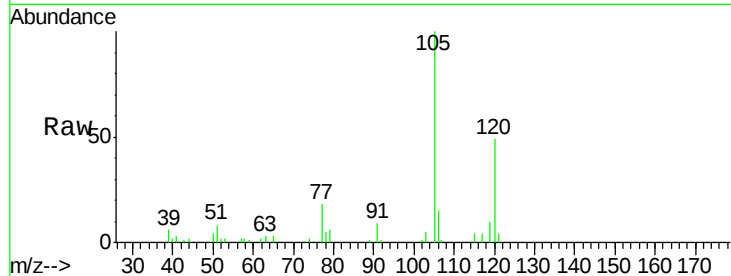




#84
 1,2,4-Trimethylbenzene
 Concen: 4.766 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD061978.D
 Acq: 23 Apr 2019 19:09

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-007-B

Tot Ion:105 Resp: 43299
 Ion Ratio Lower Upper
 105 100
 120 48.6 23.1 69.2



#95
 Naphthalene
 Concen: 5.747 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VD061978.D
 Acq: 23 Apr 2019 19:09

Tgt Ion:128 Resp: 24756
 Ion Ratio Lower Upper
 128 100
 127 12.7 9.8 14.8
 129 9.5 8.8 13.2

