

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042319\
 Data File : VD061979.D
 Acq On : 23 Apr 2019 19:39
 Operator : VA/AP
 Sample : K2539-02
 Misc : 4.41g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-006-A

Quant Time: Apr 24 02:12:45 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	7.06	168	434128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	706701	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	507707	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	148971	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	180281	53.06	ug/l	0.00
Spiked Amount			Recovery	=	106.12%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
50) Toluene-d8	10.41	98	504860	43.41	ug/l	0.00
Spiked Amount			Recovery	=	86.82%	
62) 4-Bromofluorobenzene	13.55	95	166907	35.78	ug/l	0.00
Spiked Amount			Recovery	=	71.56%	

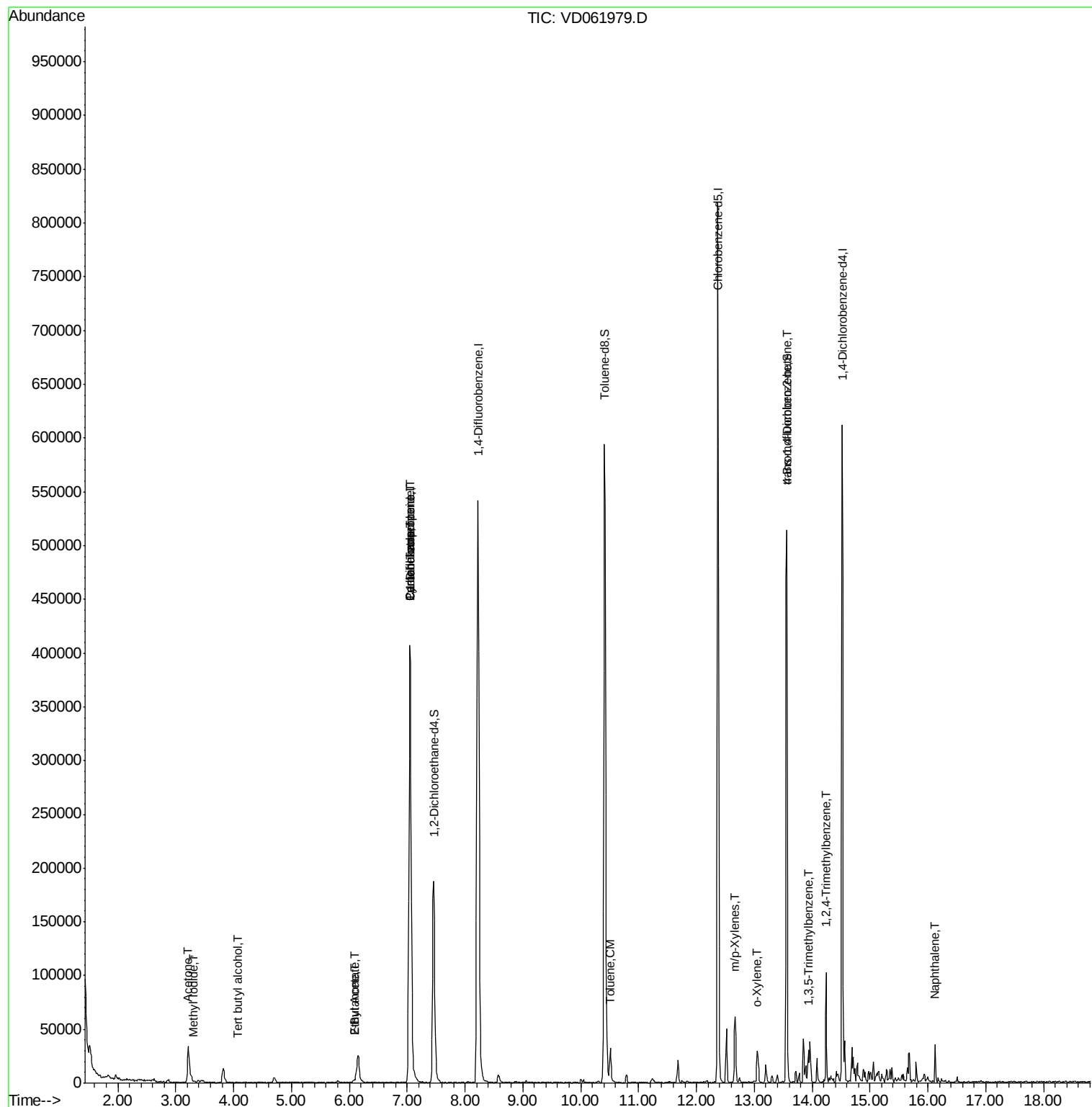
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.31	142	389	5.483	ug/l #	37
11) Tert butyl alcohol	4.06	59	663	3.454	ug/l #	76
16) Acetone	3.22	43	63637	78.441	ug/l	96
20) Methylene Chloride	3.83	84	9395	Below Cal		88
25) 2-Butanone	6.08	43	6121	6.223	ug/l	96
31) Cyclohexane	7.05	56	7058	1.395	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	31490	5.719	ug/l #	44
37) Ethyl Acetate	6.08	43	6121	2.609	ug/l #	64
38) Carbon Tetrachloride	7.05	117	40734	5.838	ug/l #	17
52) Toluene	10.51	92	16037	1.845	ug/l	98
68) m/p-Xylenes	12.67	106	21695	3.833	ug/l	82
69) o-Xylene	13.05	106	7765	1.500	ug/l	98
80) 1,3,5-Trimethylbenzene	13.94	105	15558	1.963	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.55	75	63887	111.445	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	45372	5.997	ug/l	97
95) Naphthalene	16.12	128	25637	7.146	ug/l	96

(#) = 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. 0.00 min

Lab File: VD061979.D

Acq: 23 Apr 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

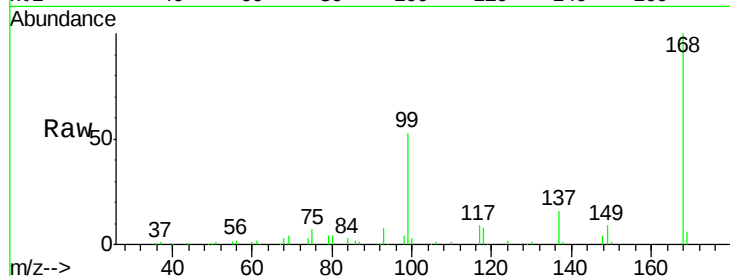
FK-SF-03-006-A

Tot Ion:168 Resp: 434128

Ion Ratio Lower Upper

168 100

99 52.9 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.06

150000

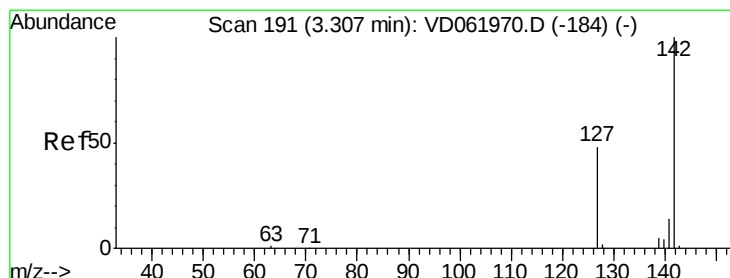
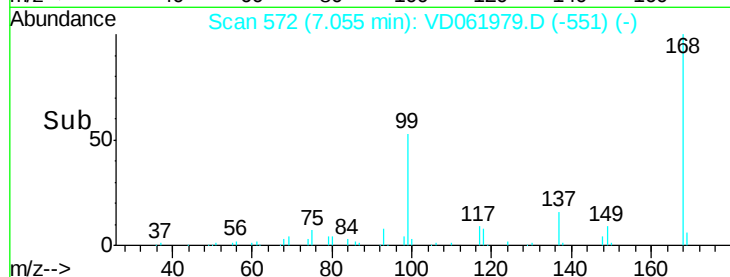
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 5.483 ug/l

RT: 3.31 min Scan# 192

Delta R.T. -0.01 min

Lab File: VD061979.D

Acq: 23 Apr 2019 19:39

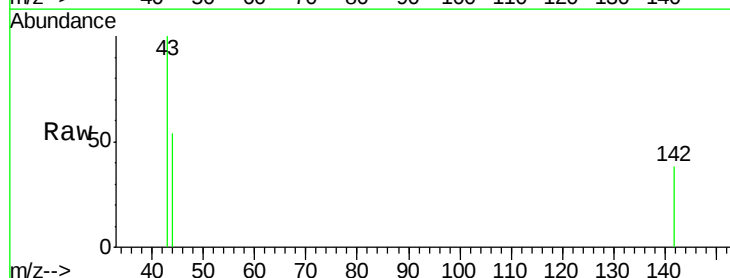
Tgt Ion:142 Resp: 389

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

3.31

400

300

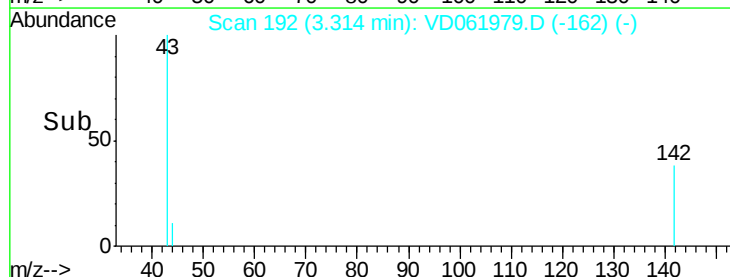
200

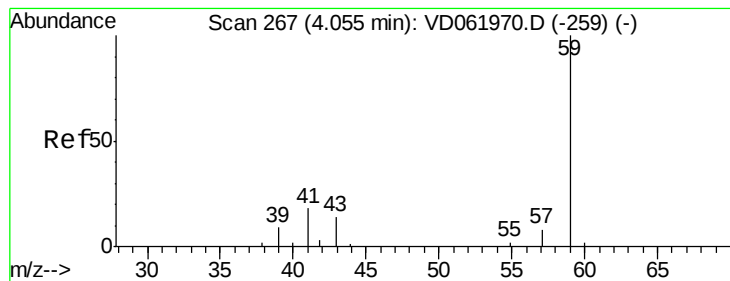
100

0

3.30 3.35

Time-->



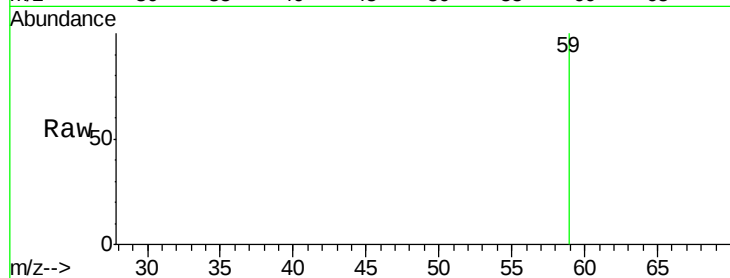


#11

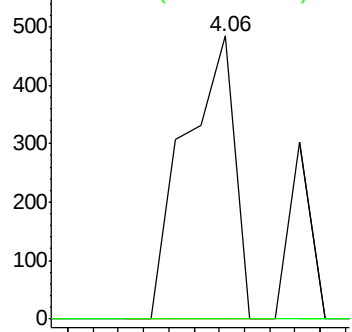
Tert butyl alcohol
 Concen: 3.454 ug/l
 RT: 4.06 min Scan# 268
 Delta R.T. 0.00 min
 Lab File: VD061979.D
 Acq: 23 Apr 2019 19:39

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-006-A

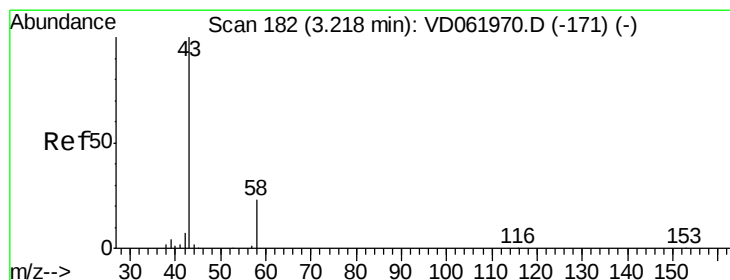
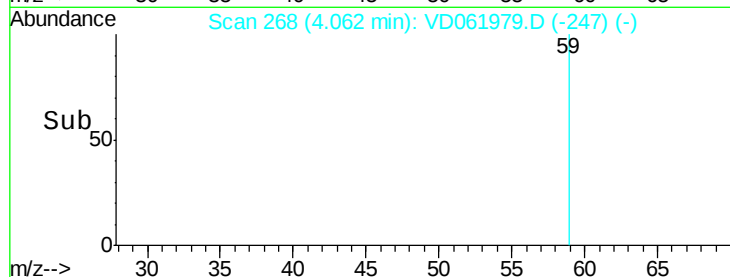
Tot Ion: 59 Resp: 663
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



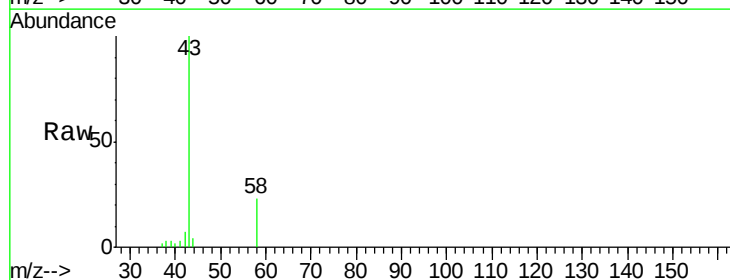
Time--> 4.00 4.05 4.10



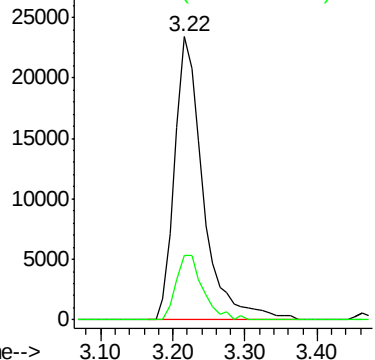
#16

Acetone
 Concen: 78.441 ug/l
 RT: 3.22 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VD061979.D
 Acq: 23 Apr 2019 19:39

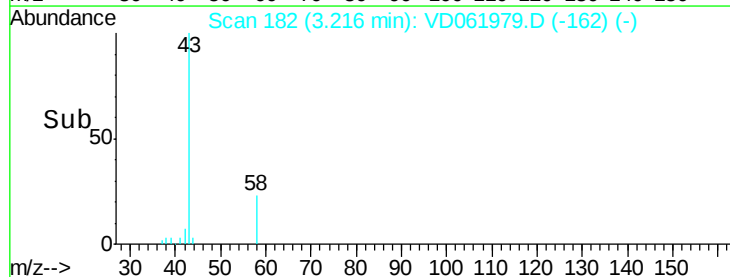
Tgt Ion: 43 Resp: 63637
 Ion Ratio Lower Upper
 43 100
 58 23.0 19.9 29.9

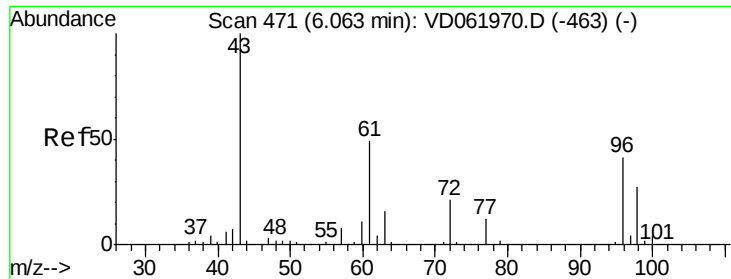


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC



Time--> 3.10 3.20 3.30 3.40





#25

2-Butanone

Concen: 6.223 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.00 min

Lab File: VD061979.D

Acq: 23 Apr 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

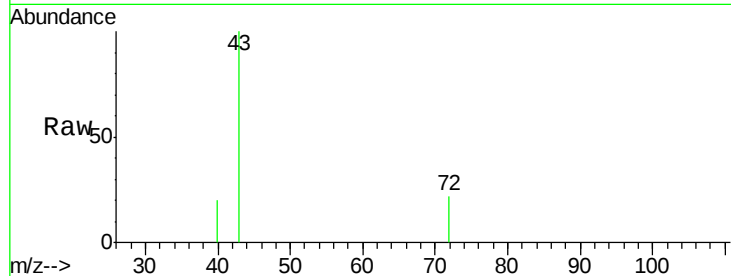
FK-SF-03-006-A

Tot Ion: 43 Resp: 6121

Ion Ratio Lower Upper

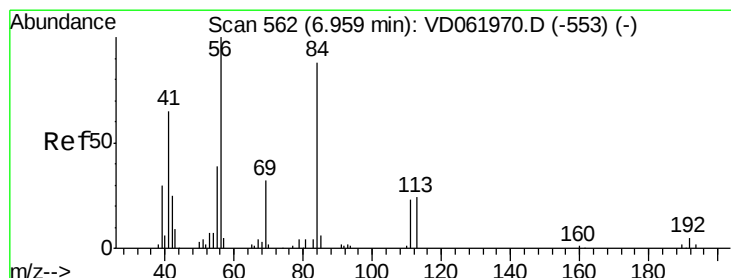
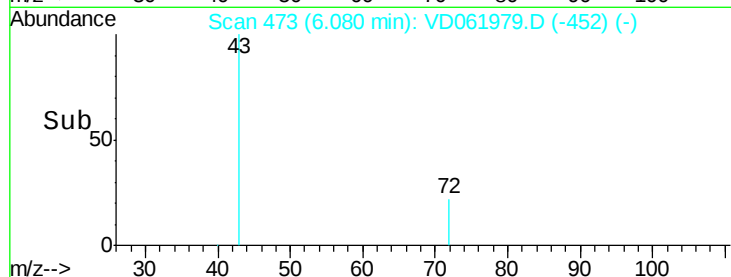
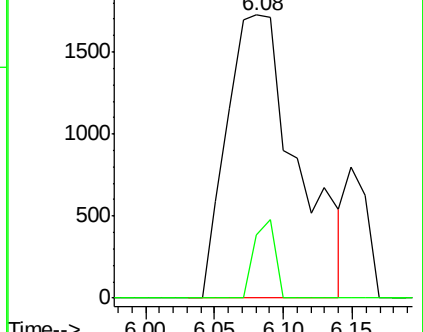
43 100

72 22.1 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.395 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.08 min

Lab File: VD061979.D

Acq: 23 Apr 2019 19:39

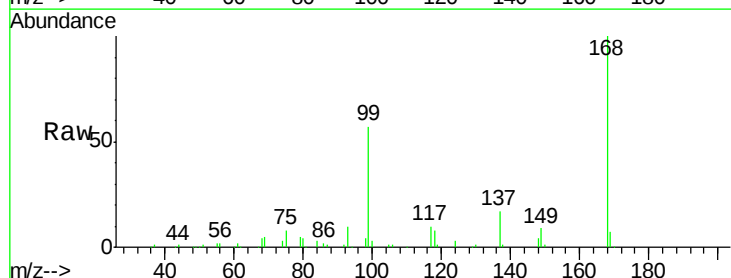
Tgt Ion: 56 Resp: 7058

Ion Ratio Lower Upper

56 100

69 273.4 25.8 38.6#

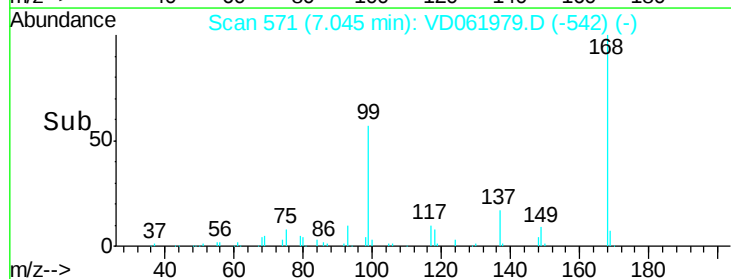
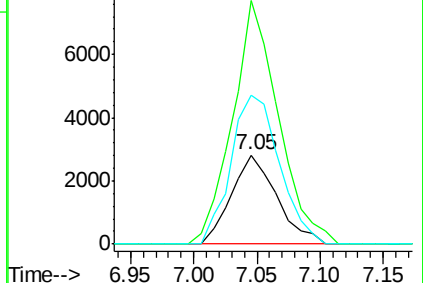
84 167.3 72.2 108.4#

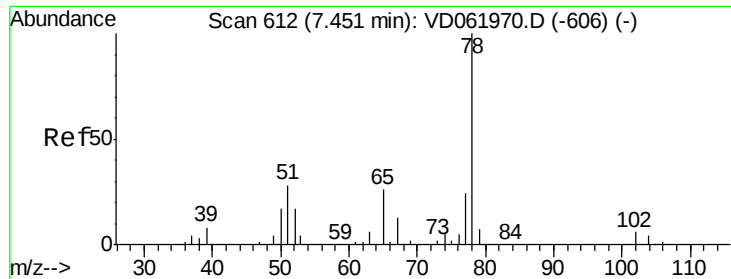


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

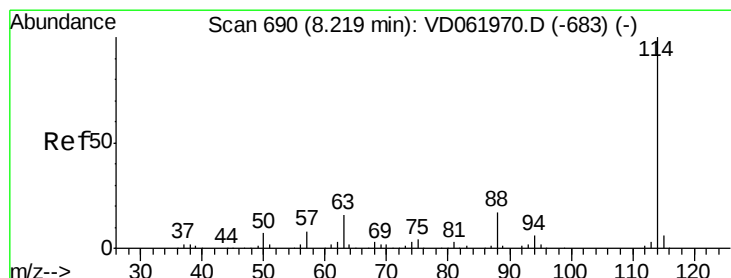
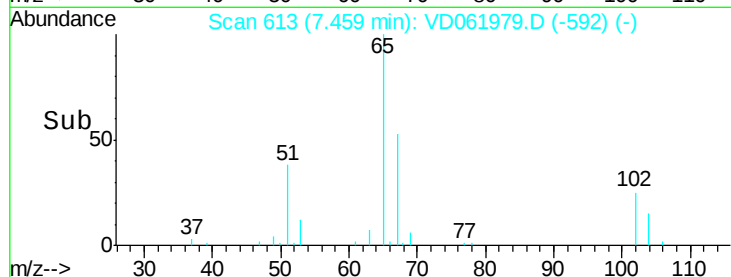
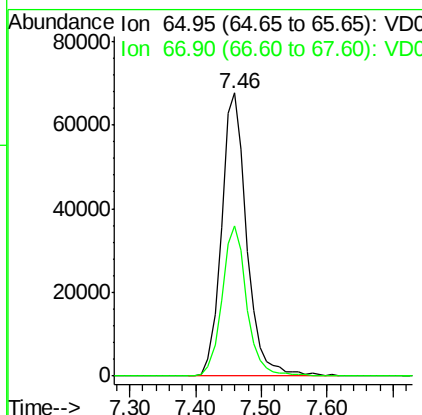
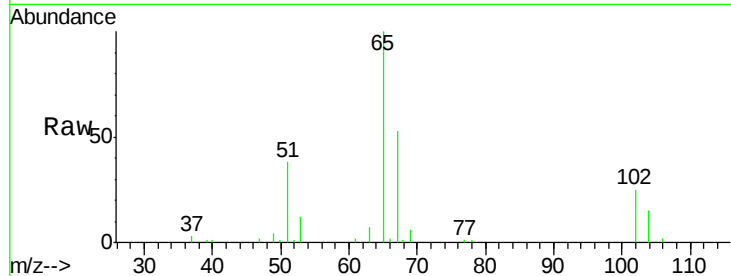




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VD061979.D
 Acq: 23 Apr 2019 19:39

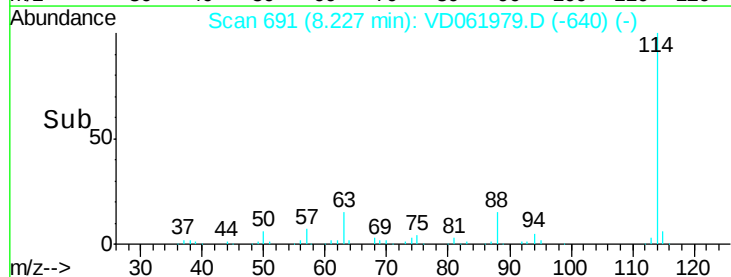
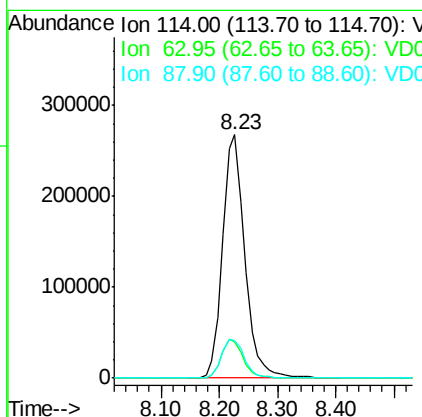
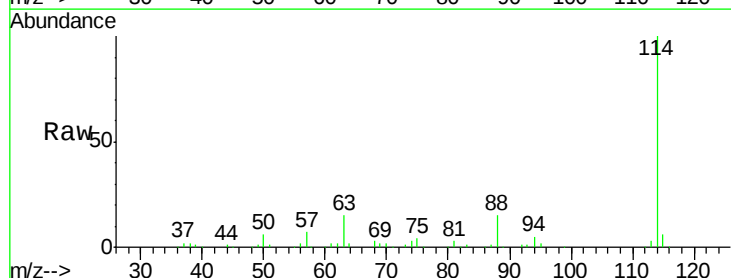
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-006-A

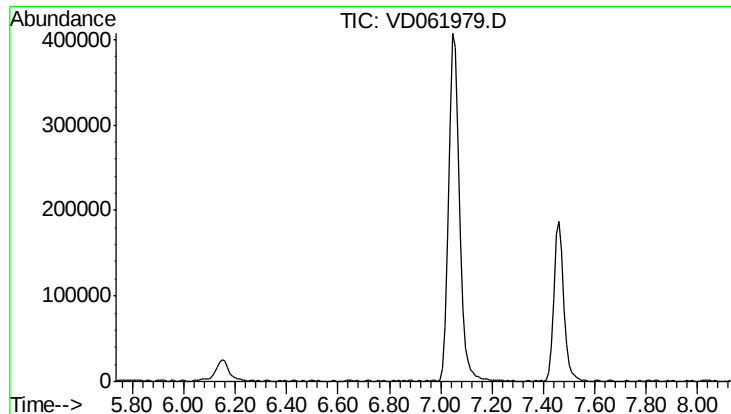
Tot Ion: 65 Resp: 180281
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VD061979.D
 Acq: 23 Apr 2019 19:39

Tgt Ion: 114 Resp: 706701
 Ion Ratio Lower Upper
 114 100
 63 14.7 0.0 32.4
 88 15.4 0.0 33.6



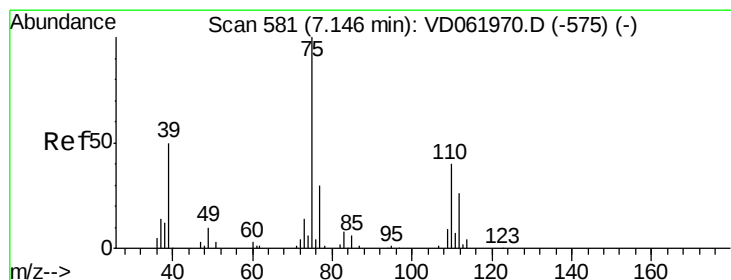
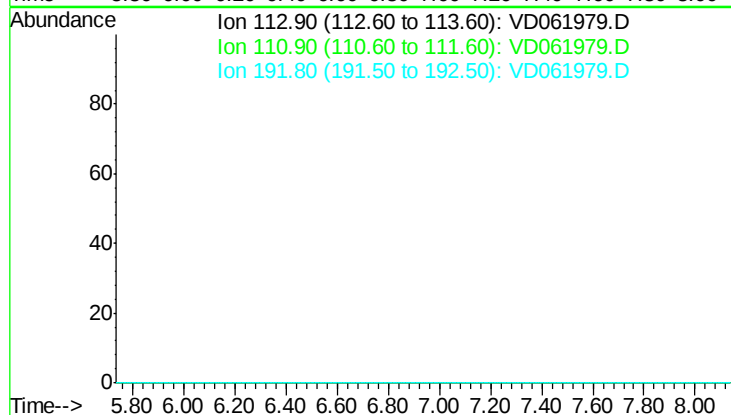


#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 Expected RT: 6.93 min

Lab File: VD061979.D
 Acq: 23 Apr 2019 19:39

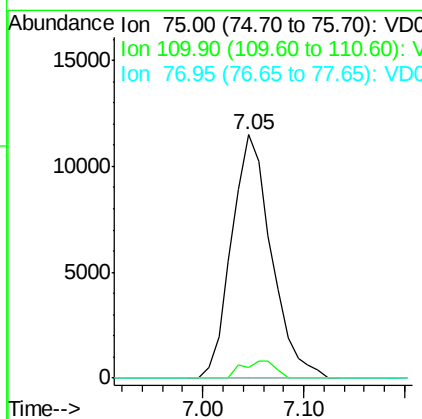
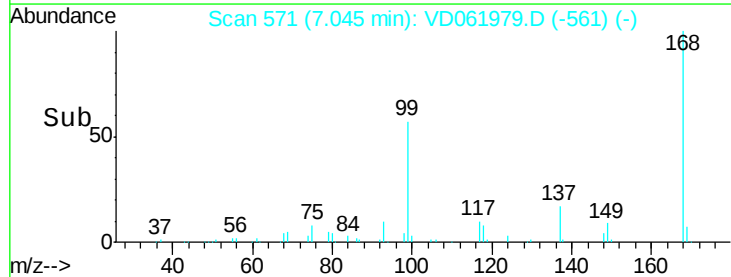
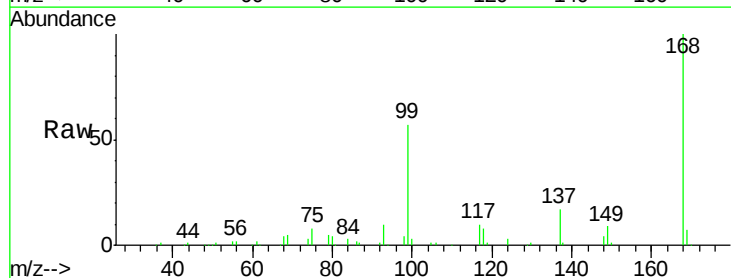
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-SF-03-006-A

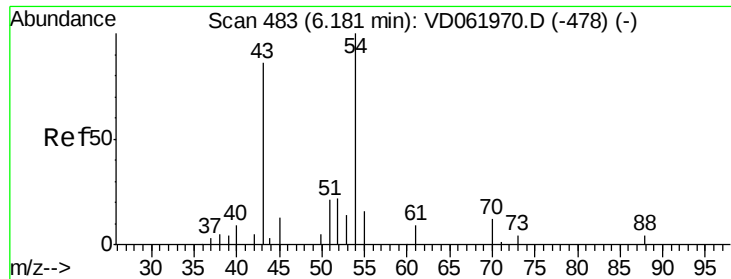
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 98.1
 192 16.2



#36
 1,1-Dichloropropene
 Concen: 5.719 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.11 min
 Lab File: VD061979.D
 Acq: 23 Apr 2019 19:39

Tgt Ion: 75 Resp: 31490
 Ion Ratio Lower Upper
 75 100
 110 4.5 19.1 57.1#
 77 0.0 25.6 38.4#

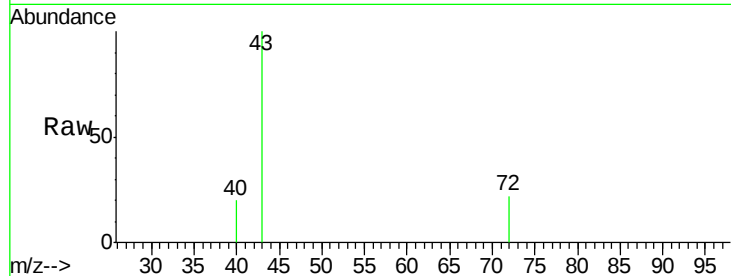




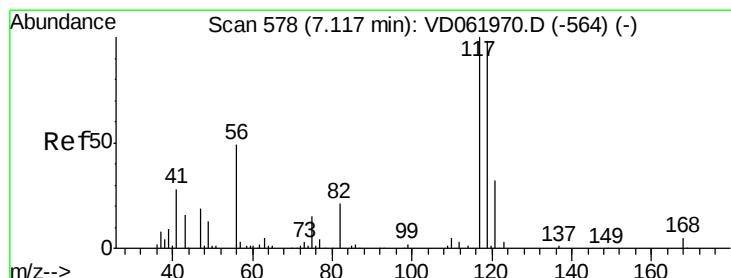
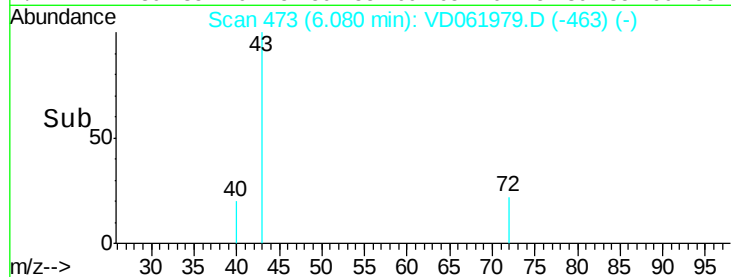
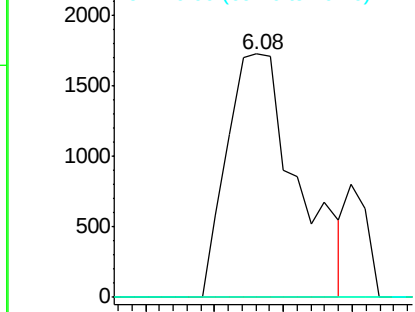
#37
Ethyl Acetate
Concen: 2.609 ug/l
RT: 6.08 min Scan# 473
Delta R.T. -0.11 min
Lab File: VD061979.D
Acq: 23 Apr 2019 19:39

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-006-A

Tot Ion: 43 Resp: 6121
Ion Ratio Lower Upper
43 100
61 0.0 14.7 22.1#
70 0.0 7.8 11.6#

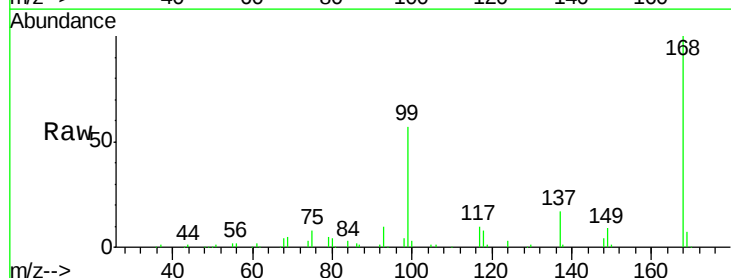


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

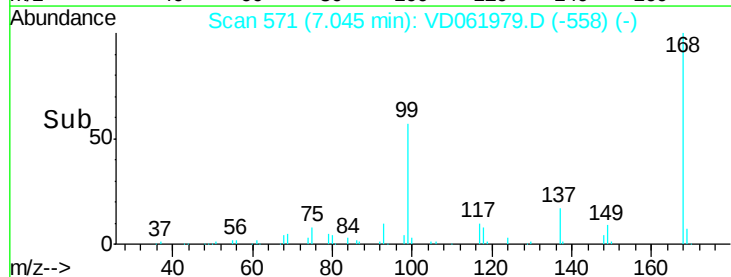
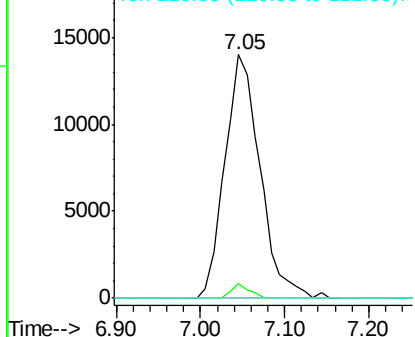


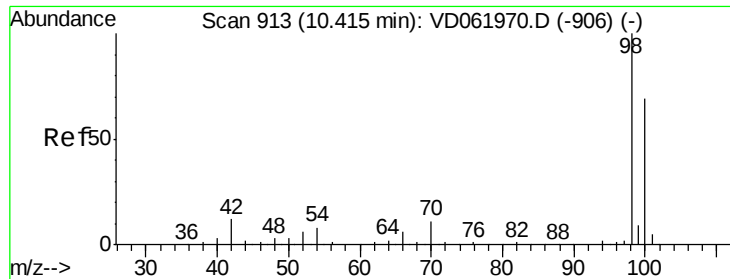
#38
Carbon Tetrachloride
Concen: 5.838 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.08 min
Lab File: VD061979.D
Acq: 23 Apr 2019 19:39

Tgt Ion: 117 Resp: 40734
Ion Ratio Lower Upper
117 100
119 6.2 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

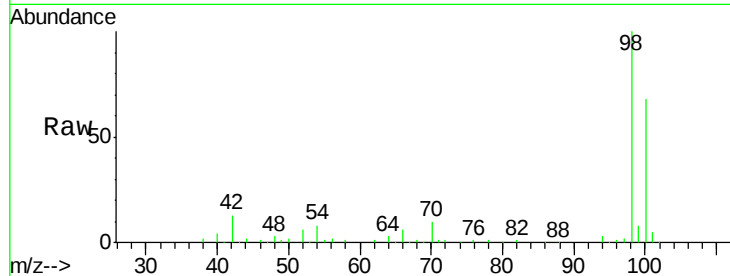




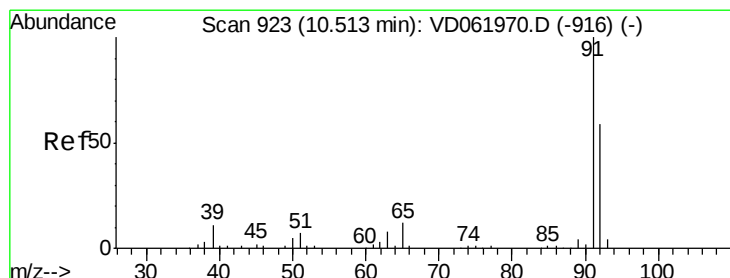
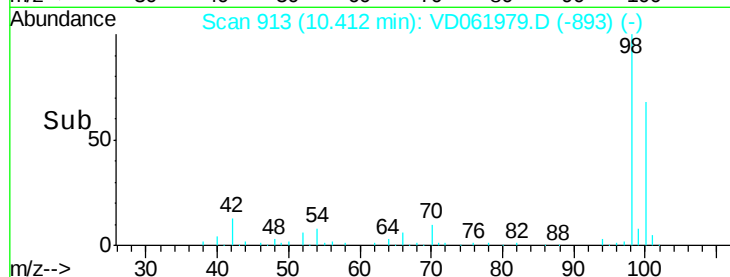
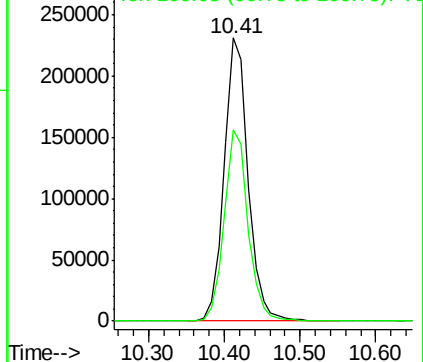
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD061979.D
Acq: 23 Apr 2019 19:39

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-006-A

Tot Ion: 98 Resp: 504860
Ion Ratio Lower Upper
98 100
100 67.7 53.8 80.8

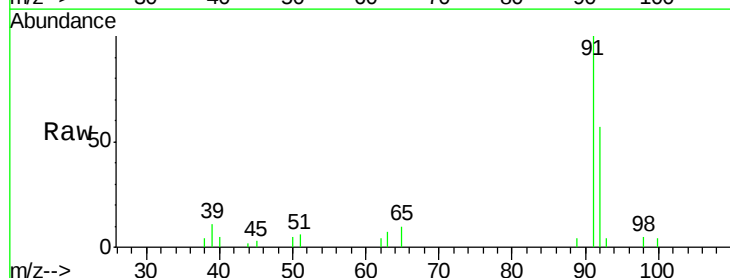


Abundance Ion 98.05 (97.75 to 98.75): VD061970.D (-906) (-)
Ion 100.05 (99.75 to 100.75): VD061970.D (-906) (-)

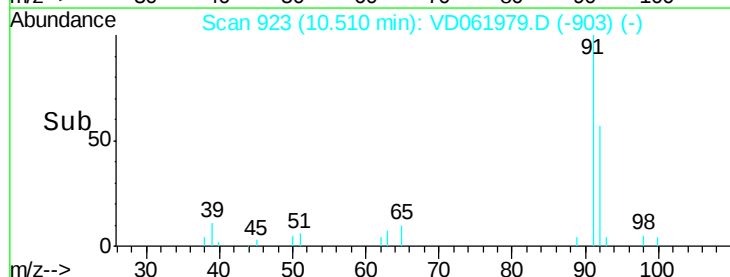
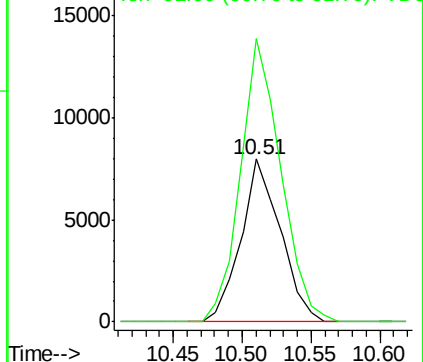


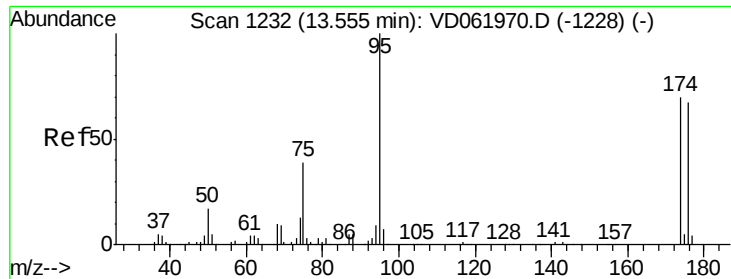
#52
Toluene
Concen: 1.845 ug/l
RT: 10.51 min Scan# 923
Delta R.T. -0.01 min
Lab File: VD061979.D
Acq: 23 Apr 2019 19:39

Tgt Ion: 92 Resp: 16037
Ion Ratio Lower Upper
92 100
91 174.0 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VD061970.D (-916) (-)
Ion 91.00 (90.70 to 91.70): VD061970.D (-916) (-)

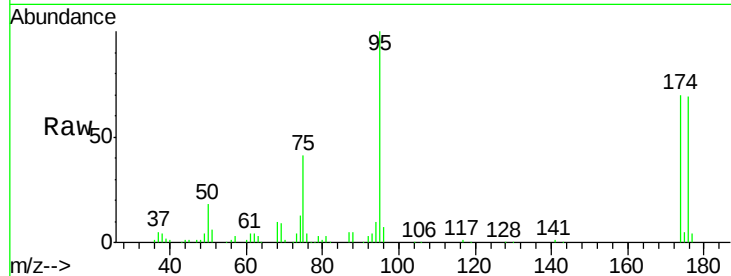




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD061979.D
Acq: 23 Apr 2019 19:39

Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-006-A

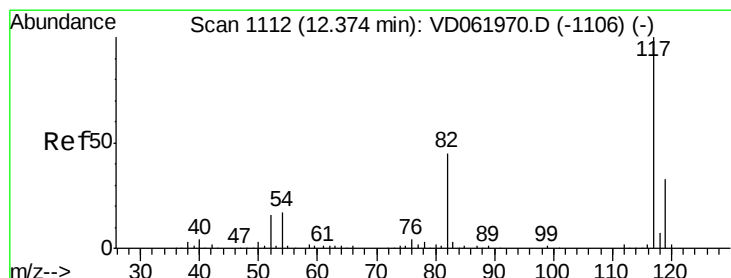
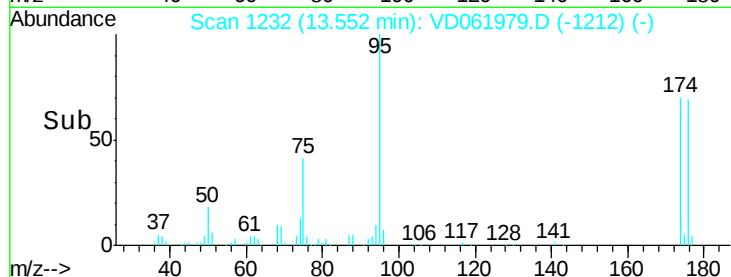
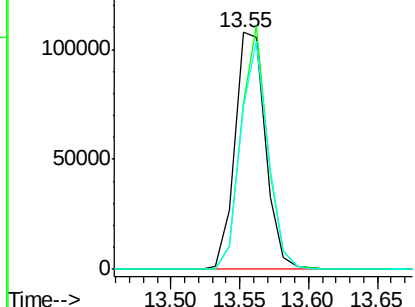
Tot Ion	95	Resp	166907
Ion Ratio	100		
Lower			
Upper			
174	70.2	0.0	181.8
176	68.5	0.0	174.4



Abundance Ion 95.00 (94.70 to 95.70): V

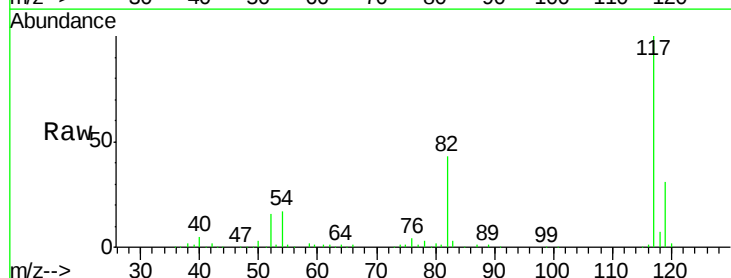
Ion 173.90 (173.60 to 174.60): V

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. 0.00 min
Lab File: VD061979.D
Acq: 23 Apr 2019 19:39

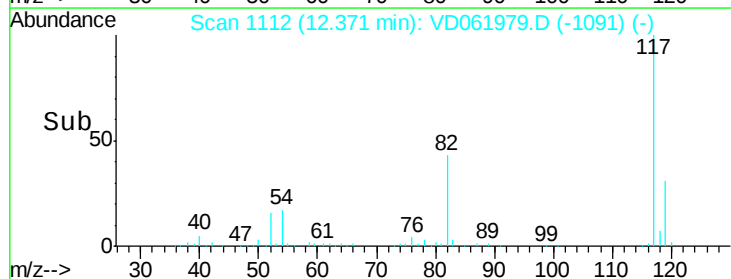
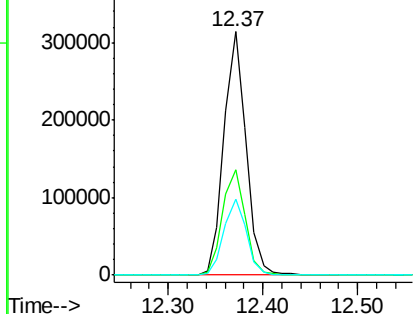
Tgt Ion	117	Resp	507707
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	43.2	36.2	54.2
119	31.0	26.2	39.4

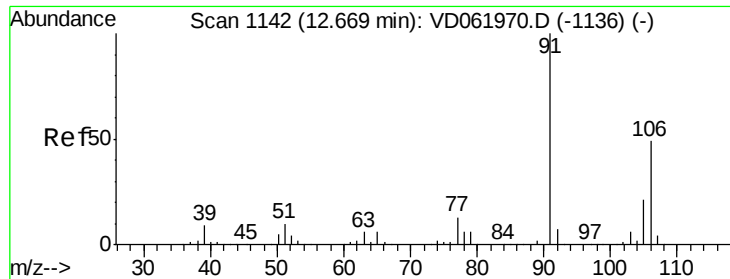


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

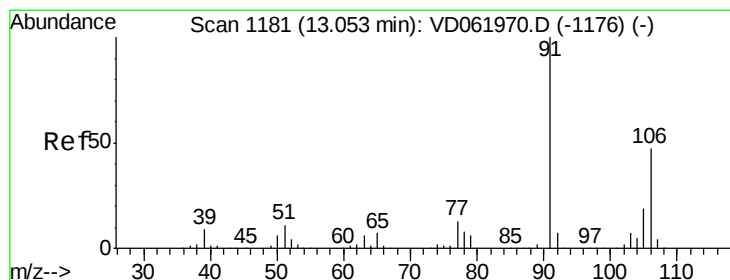
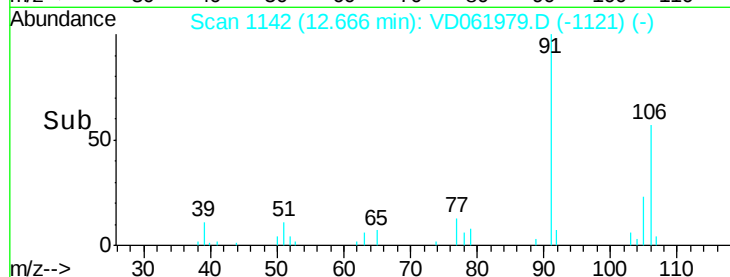
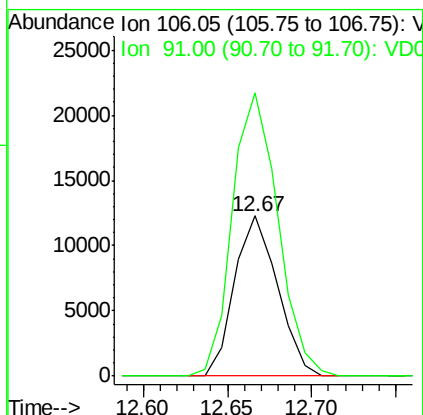
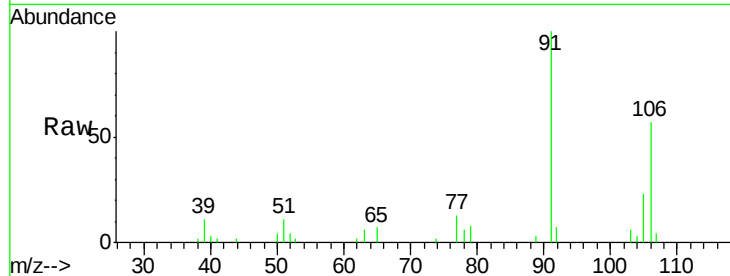




#68
m/p-Xylenes
Concen: 3.833 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD061979.D
Acq: 23 Apr 2019 19:39

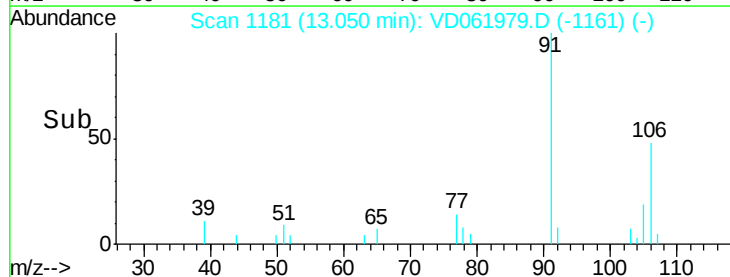
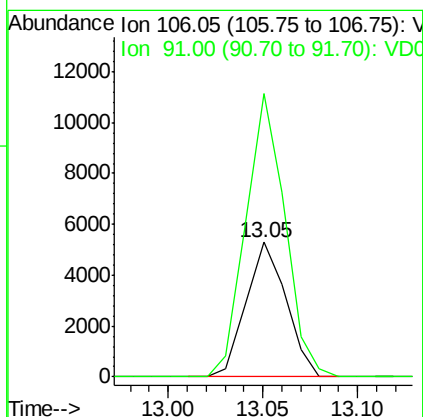
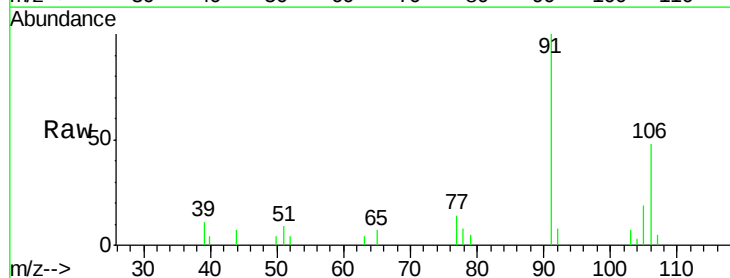
Instrument :
MSVOA_D
ClientSampleId :
FK-SF-03-006-A

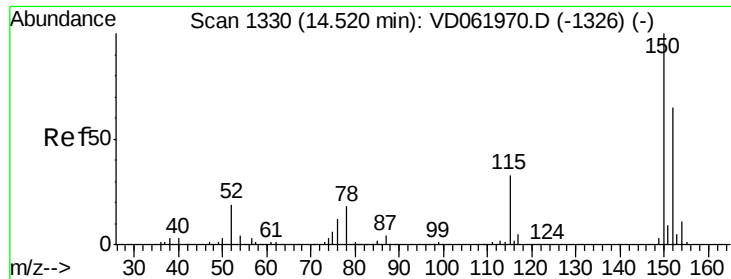
Tot Ion:106 Resp: 21695
Ion Ratio Lower Upper
106 100
91 176.7 164.0 246.0



#69
o-Xylene
Concen: 1.500 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD061979.D
Acq: 23 Apr 2019 19:39

Tgt Ion:106 Resp: 7765
Ion Ratio Lower Upper
106 100
91 210.1 106.7 319.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD061979.D

Acq: 23 Apr 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-006-A

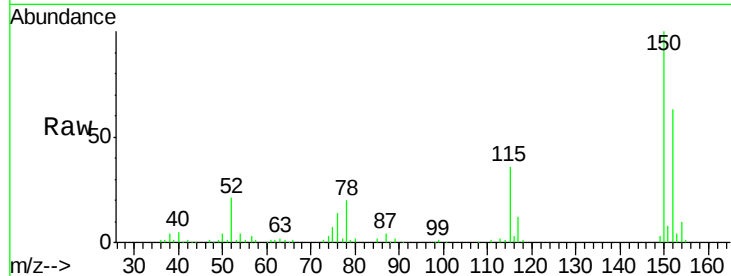
Tot Ion:152 Resp: 148971

Ion Ratio Lower Upper

152 100

115 57.7 30.9 92.7

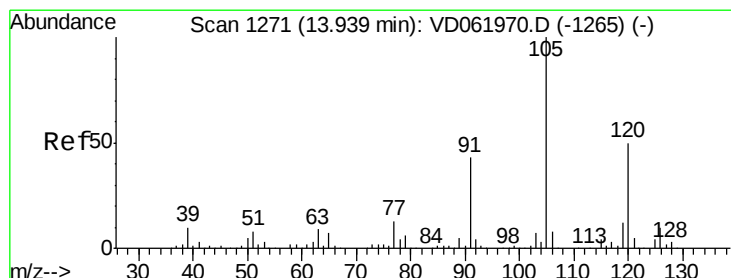
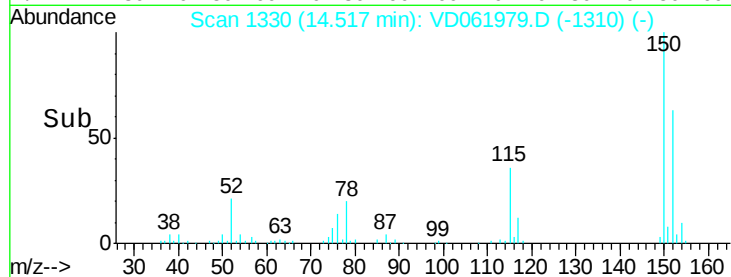
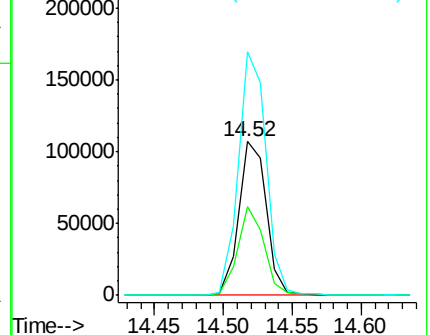
150 158.3 0.0 314.8



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: 1.963 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD061979.D

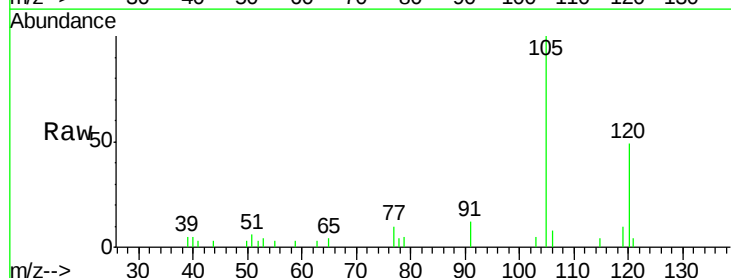
Acq: 23 Apr 2019 19:39

Tgt Ion:105 Resp: 15558

Ion Ratio Lower Upper

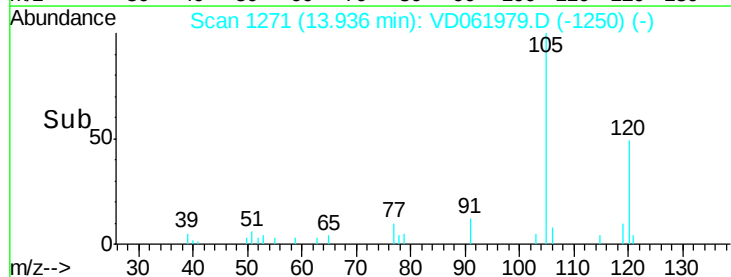
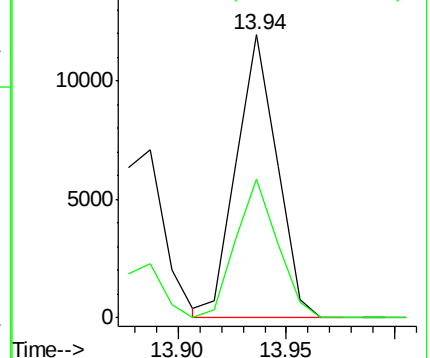
105 100

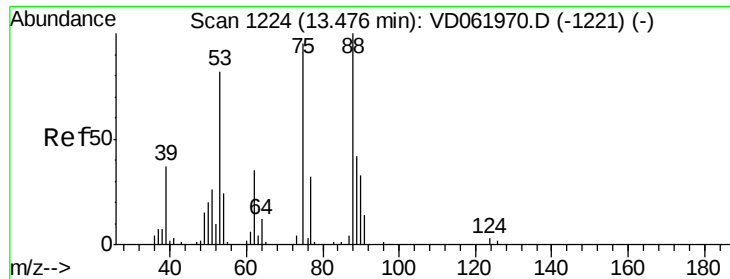
120 48.9 24.0 72.0



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: 111.445 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD061979.D

Acq: 23 Apr 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-006-A

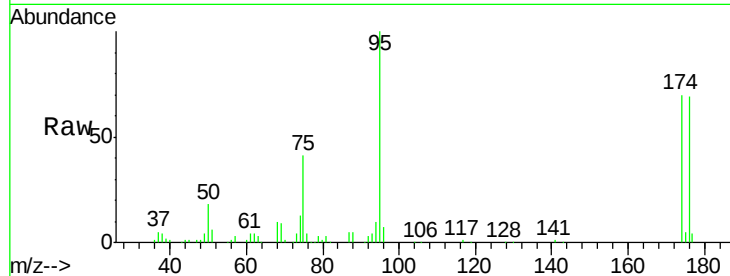
Tot Ion: 75 Resp: 63887

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

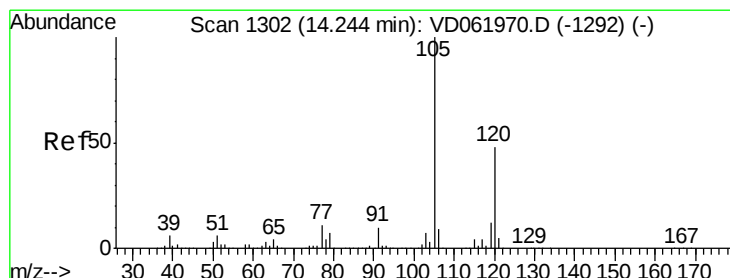
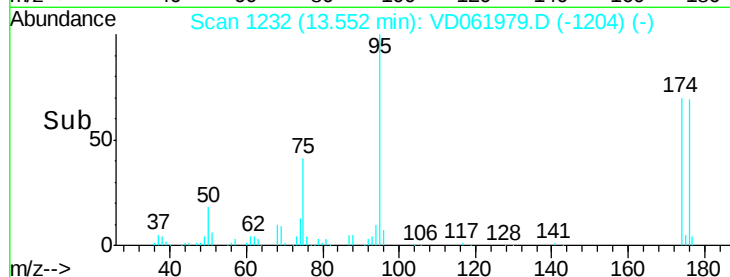
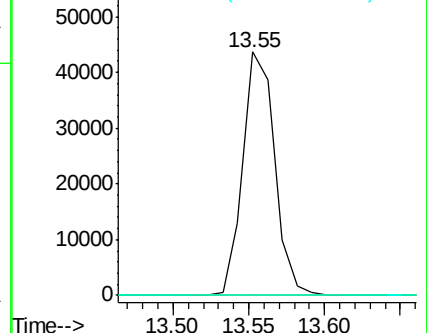
89 0.0 35.0 52.6#



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: 5.997 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VD061979.D

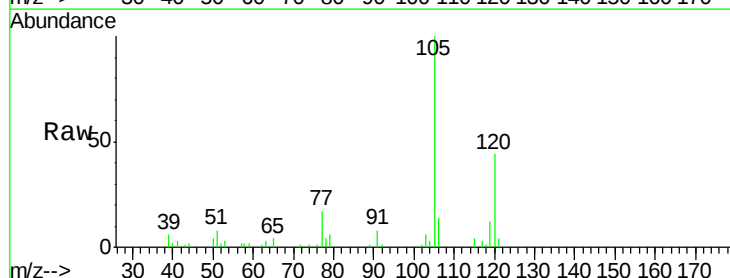
Acq: 23 Apr 2019 19:39

Tgt Ion:105 Resp: 45372

Ion Ratio Lower Upper

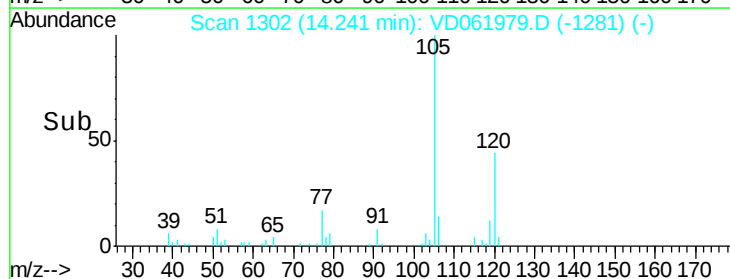
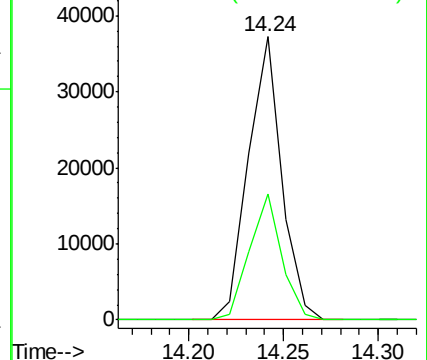
105 100

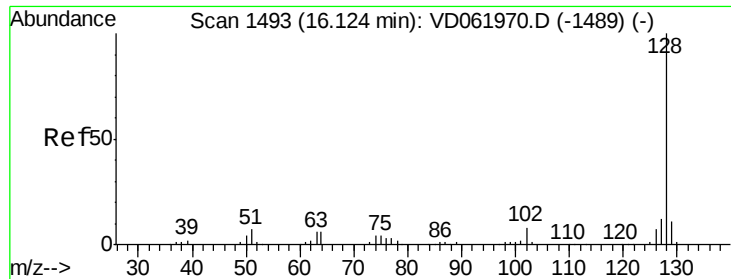
120 44.4 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#95

Naphthalene

Concen: 7.146 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VD061979.D

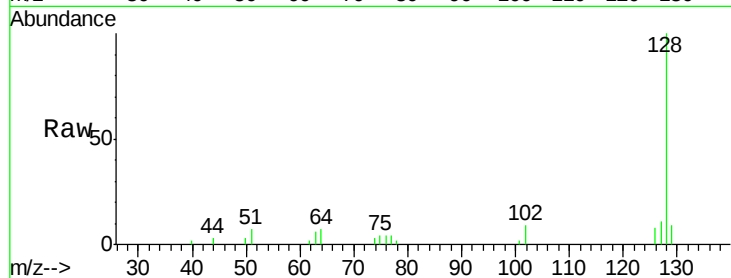
Acq: 23 Apr 2019 19:39

Instrument :

MSVOA_D

ClientSampleId :

FK-SF-03-006-A



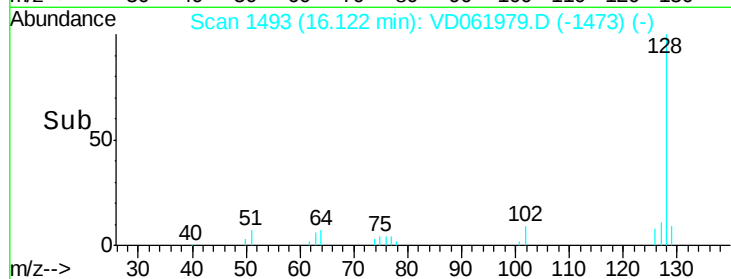
Tot Ion:128 Resp: 25637

Ion Ratio Lower Upper

128 100

127 11.2 9.8 14.8

129 9.2 8.8 13.2



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

