

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
 Data File : VD058234.D
 Acq On : 21 Jun 2018 4:34
 Operator : VA/AP
 Sample : J3606-02
 Misc : 10.09g/5ml/MSVOA D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-PS-01-030

Quant Time: Jun 21 05:18:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	639429	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	834538	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	607655	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	255839	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	341322	52.85	ug/l	0.02
Spiked Amount 50.000			Recovery	=	105.70%	
35) Dibromofluoromethane	5.56	113	347664	51.18	ug/l	0.01
Spiked Amount 50.000			Recovery	=	102.36%	
50) Toluene-d8	8.72	98	677280	41.22	ug/l	0.01
Spiked Amount 50.000			Recovery	=	82.44%	
62) 4-Bromofluorobenzene	11.94	95	268683	40.03	ug/l	0.01
Spiked Amount 50.000			Recovery	=	80.06%	

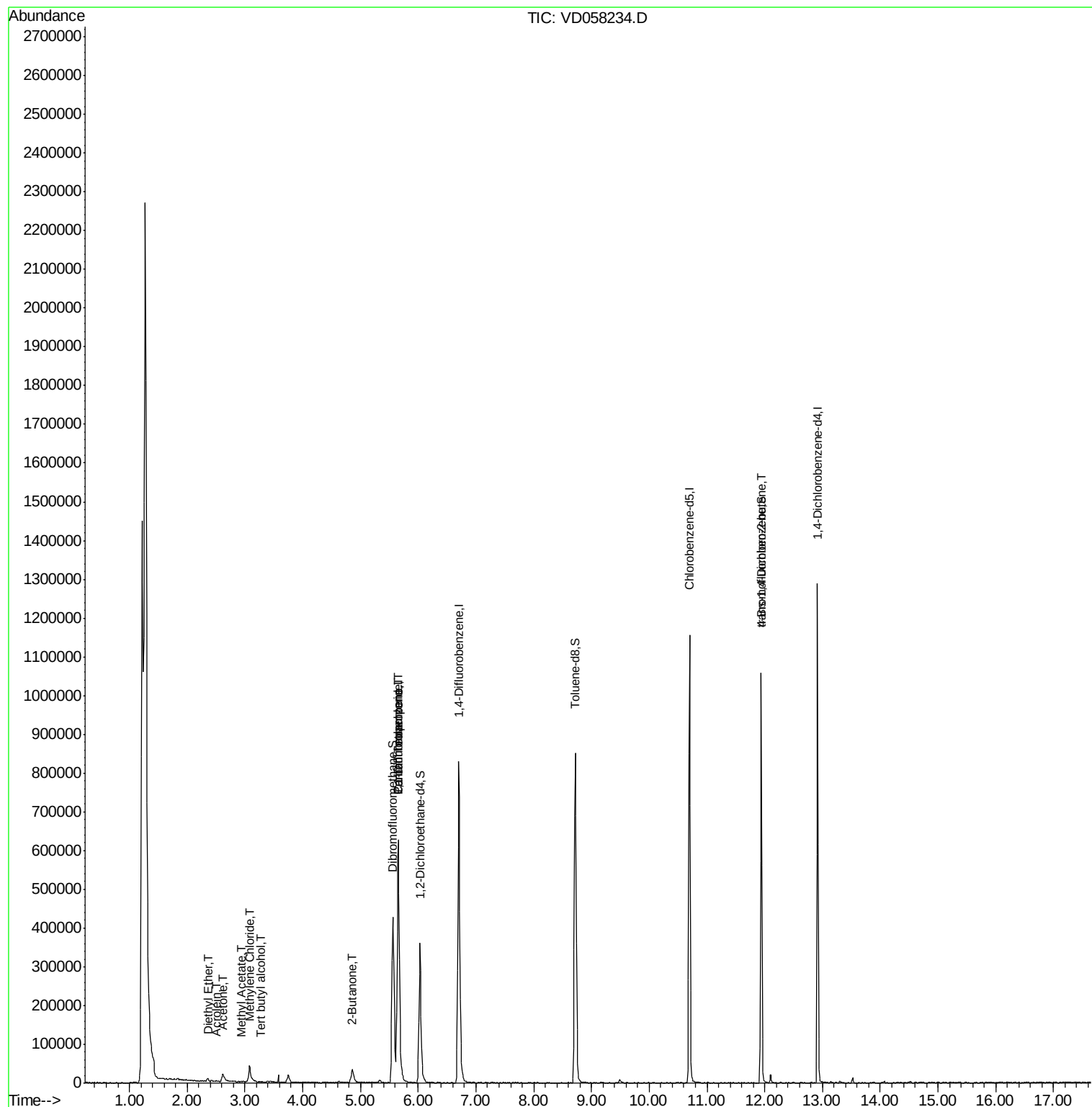
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.52	50	454	Below Cal	#	43
8) Diethyl Ether	2.35	74	2069	2.130	ug/l	59
11) Tert butyl alcohol	3.29	59	760	3.568	ug/l #	78
13) Acrolein	2.51	56	180	1.480	ug/l #	11
16) Acetone	2.62	43	43288	49.008	ug/l #	87
18) Methyl Acetate	2.95	43	4338	2.303	ug/l #	65
20) Methylene Chloride	3.08	84	19128	3.902	ug/l #	87
25) 2-Butanone	4.85	43	2798	1.453	ug/l #	60
31) Cyclohexane	5.66	56	14606	Below Cal	#	1
36) 1,1-Dichloropropene	5.66	75	52643	6.377	ug/l #	51
38) Carbon Tetrachloride	5.66	117	51195	6.241	ug/l #	15
81) trans-1,4-Dichloro-2-buten	11.94	75	124437	136.591	ug/l #	1
82) 4-Chlorotoluene	12.16	91	230	Below Cal	#	45

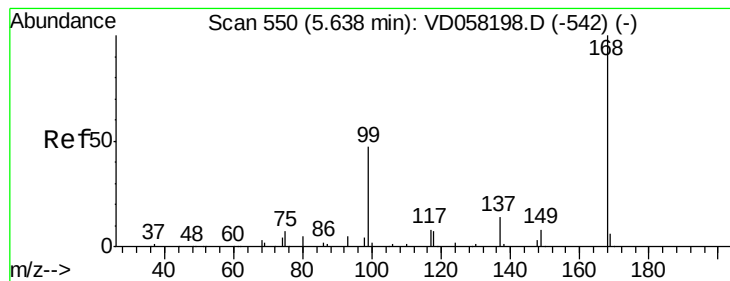
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

Instrument :

MSVOA_D

ClientSampleId :

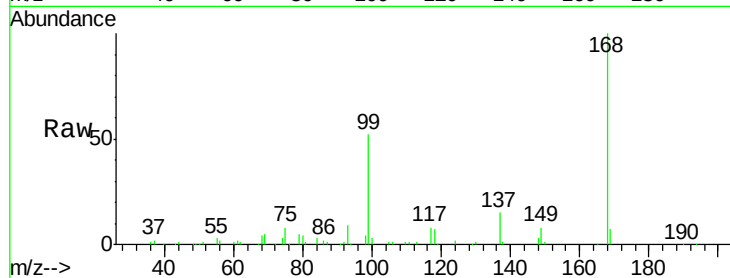
FK-PS-01-030

Tot Ion:168 Resp: 639429

Ion Ratio Lower Upper

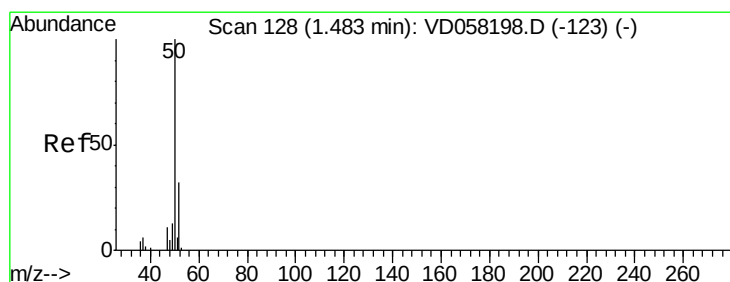
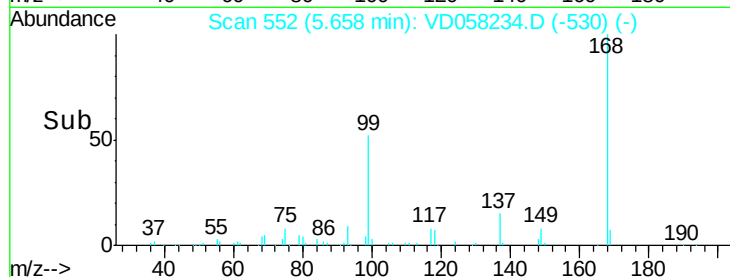
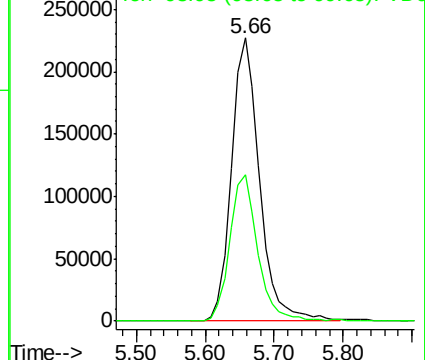
168 100

99 51.5 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.52 min Scan# 132

Delta R.T. 0.04 min

Lab File: VD058234.D

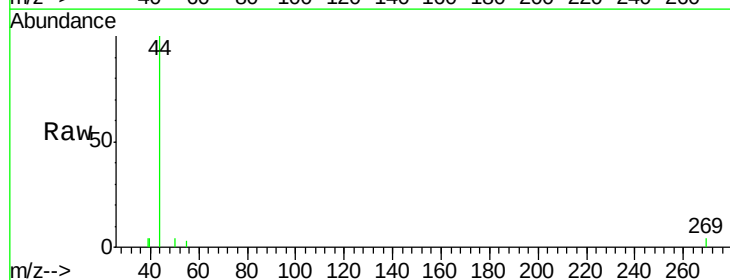
Acq: 21 Jun 2018 4:34

Tgt Ion: 50 Resp: 454

Ion Ratio Lower Upper

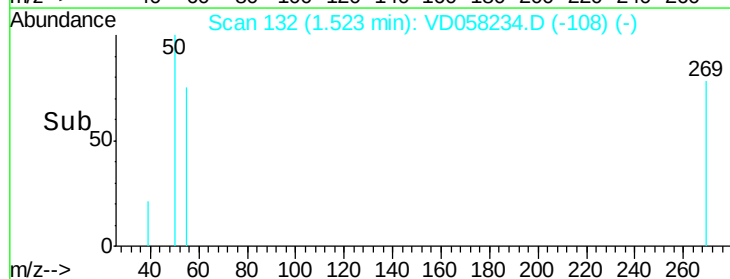
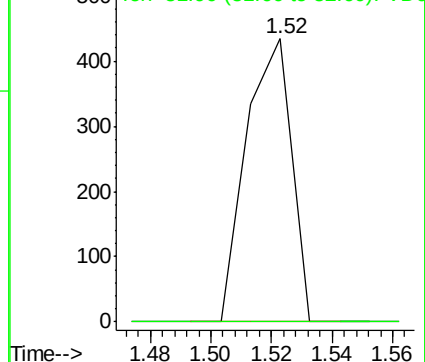
50 100

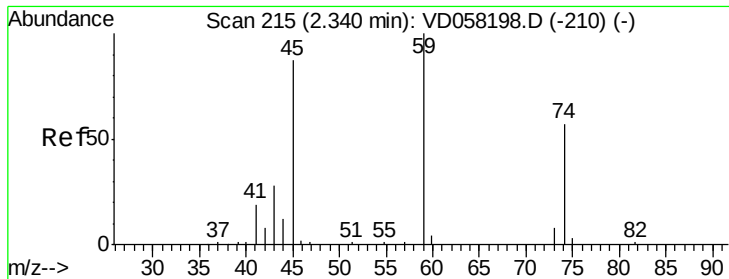
52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#8

Diethyl Ether

Concen: 2.130 ug/l

RT: 2.35 min Scan# 216

Delta R.T. 0.01 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

Instrument :

MSVOA_D

ClientSampleId :

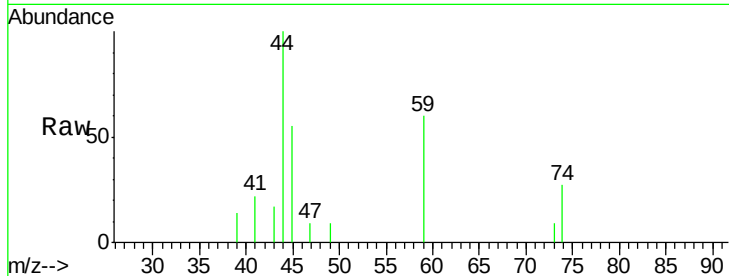
FK-PS-01-030

Tot Ion: 74 Resp: 2069

Ion Ratio Lower Upper

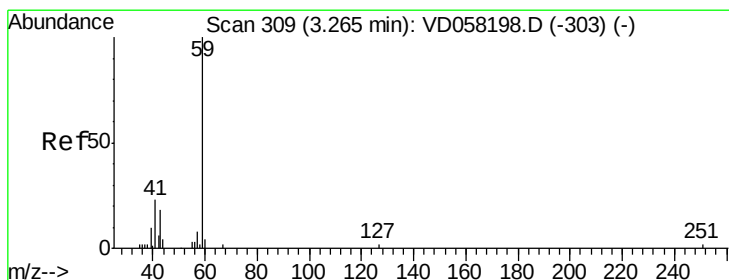
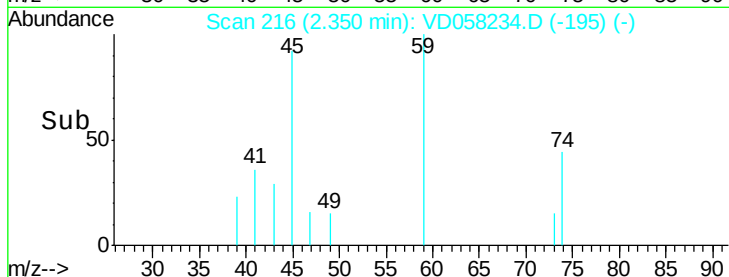
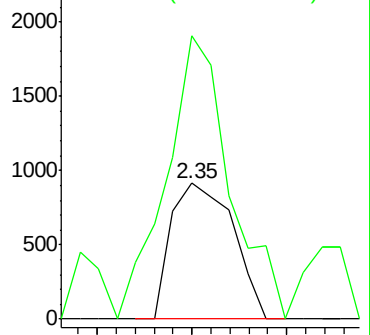
74 100

45 208.4 77.5 232.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 3.568 ug/l

RT: 3.29 min Scan# 311

Delta R.T. 0.02 min

Lab File: VD058234.D

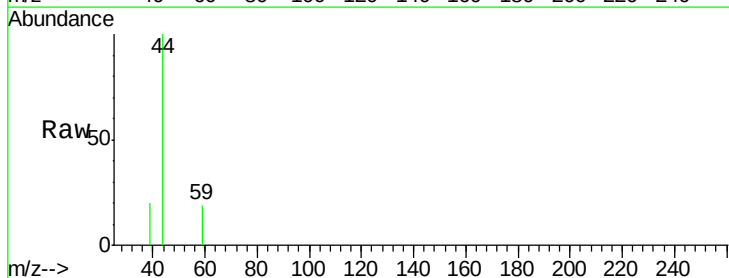
Acq: 21 Jun 2018 4:34

Tgt Ion: 59 Resp: 760

Ion Ratio Lower Upper

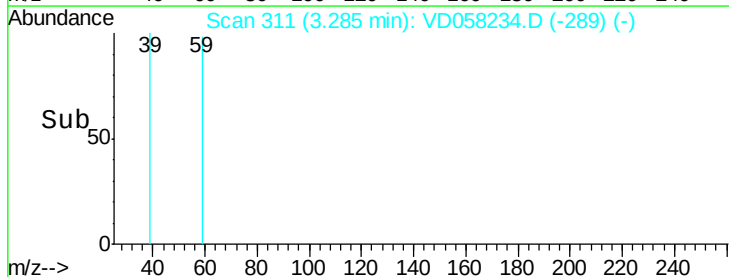
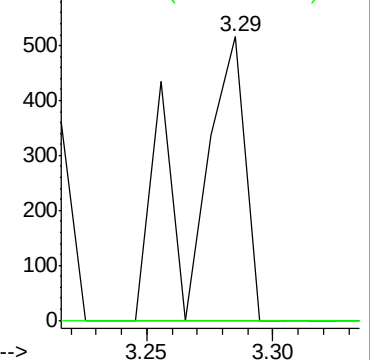
59 100

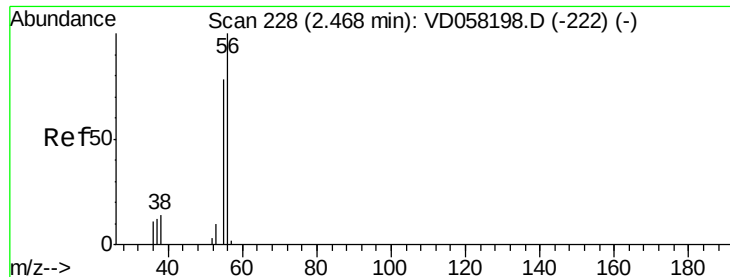
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.480 ug/l

RT: 2.51 min Scan# 232

Delta R.T. 0.04 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

Instrument :

MSVOA_D

ClientSampleId :

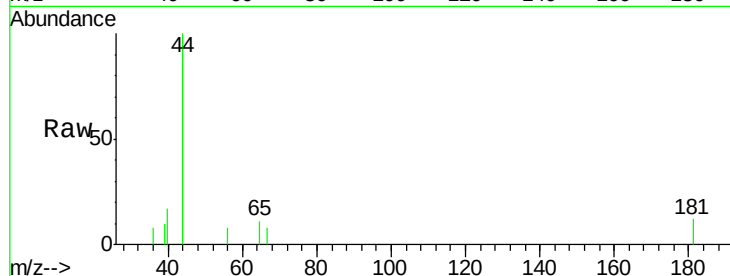
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Tot Ion: 56 Resp: 180

Ion Ratio Lower Upper

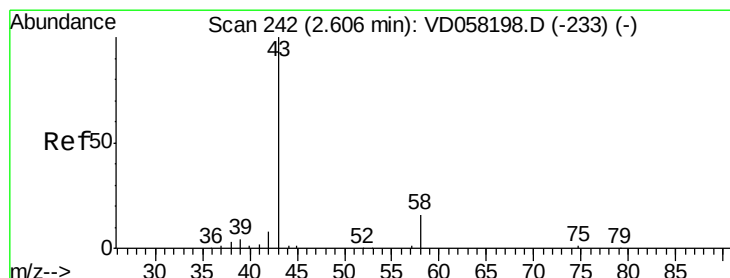
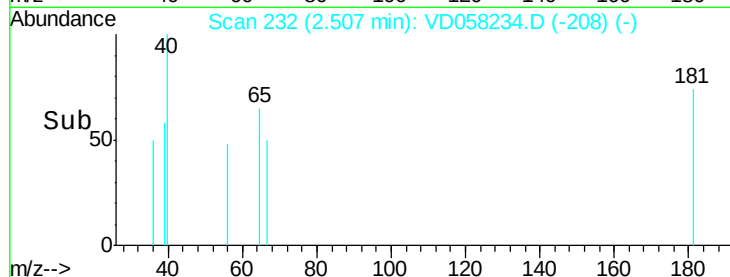
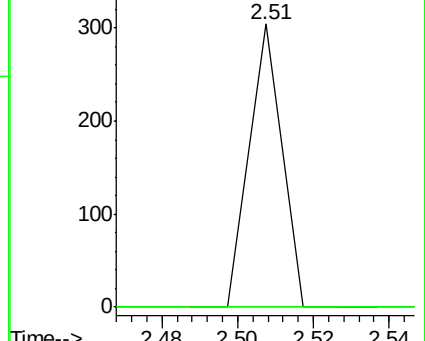
56 100

55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 49.008 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD058234.D

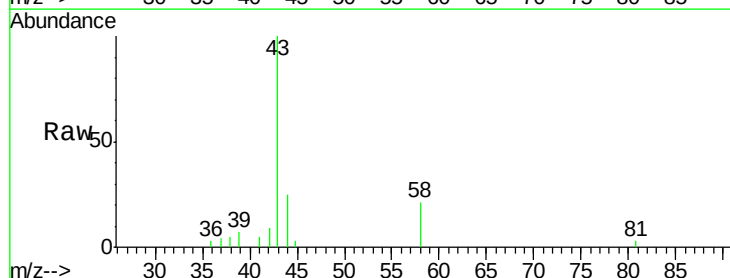
Acq: 21 Jun 2018 4:34

Tgt Ion: 43 Resp: 43288

Ion Ratio Lower Upper

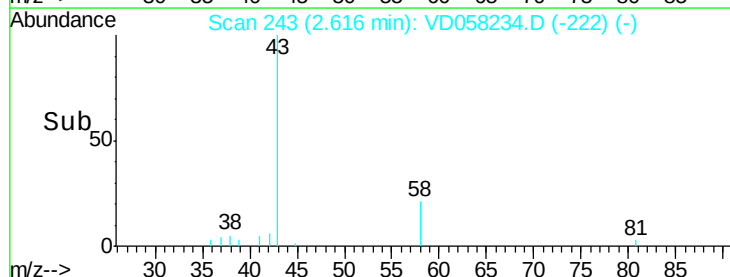
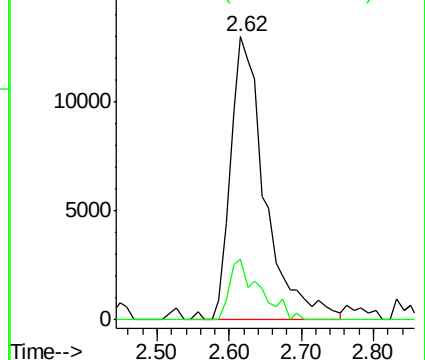
43 100

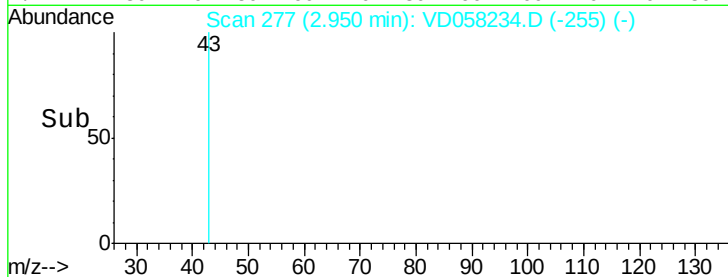
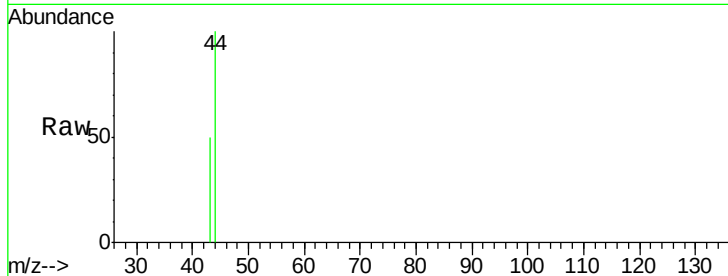
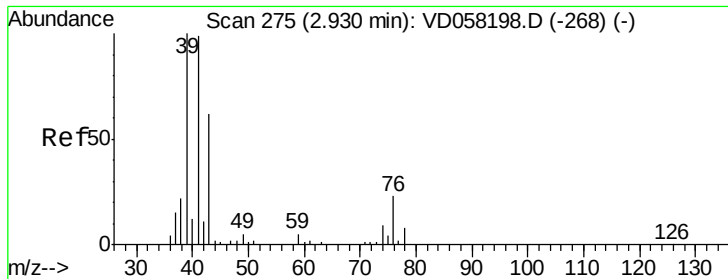
58 21.4 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#18

Methyl Acetate

Concen: 2.303 ug/l

RT: 2.95 min Scan# 277

Delta R.T. 0.02 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

Instrument :

MSVOA_D

ClientSampleId :

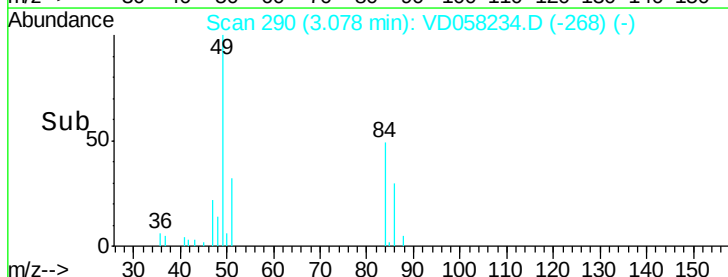
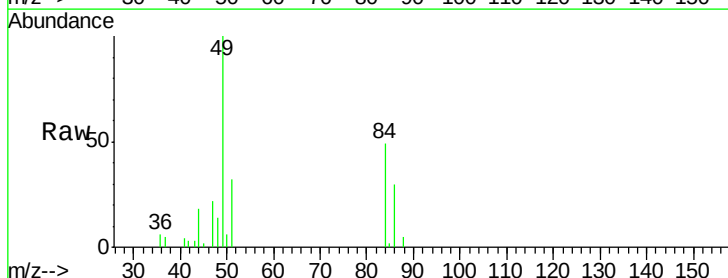
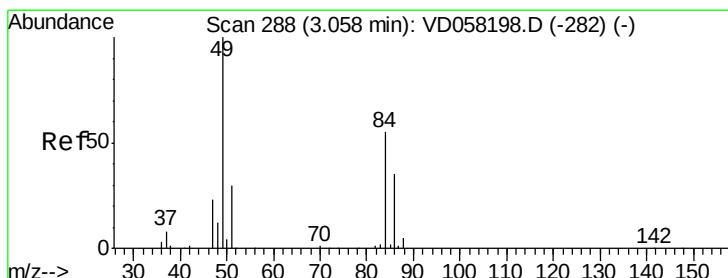
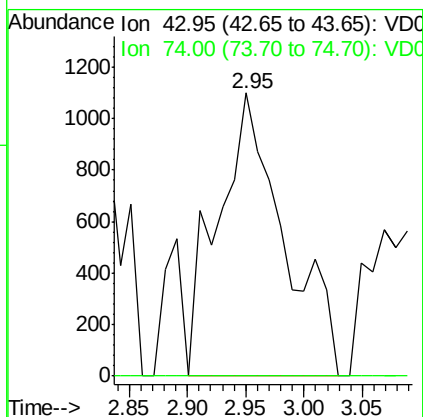
FK-PS-01-030

Tot Ion: 43 Resp: 4338

Ion Ratio Lower Upper

43 100

74 0.0 11.7 17.5#



#20

Methylene Chloride

Concen: 3.902 ug/l

RT: 3.08 min Scan# 290

Delta R.T. 0.02 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

Tgt Ion: 84 Resp: 19128

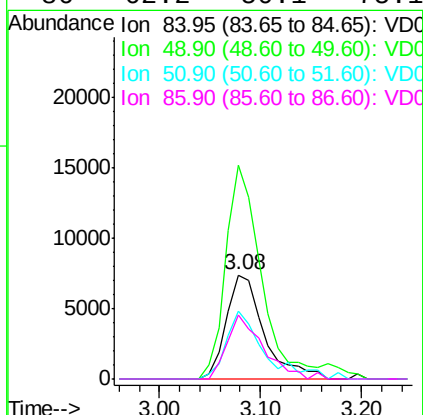
Ion Ratio Lower Upper

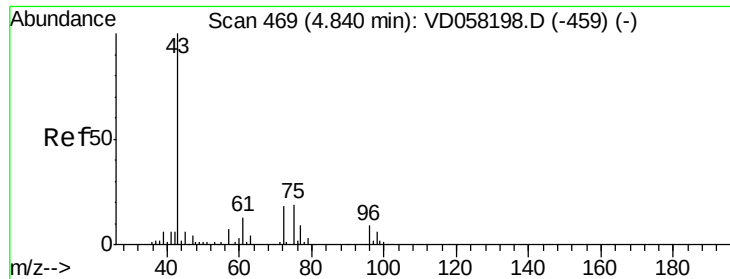
84 100

49 205.4 145.0 217.6

51 65.2 42.9 64.3#

86 62.2 50.1 75.1





#25

2-Butanone

Concen: 1.453 ug/l

RT: 4.85 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

Instrument :

MSVOA_D

ClientSampleId :

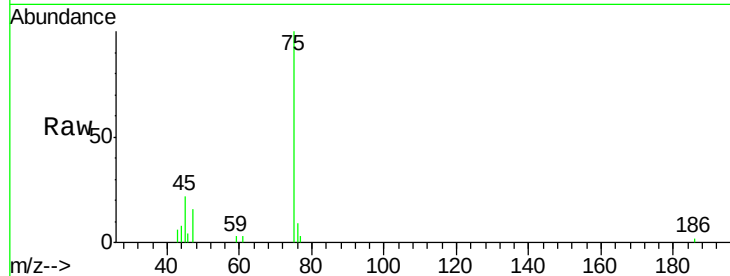
FK-PS-01-030

Tot Ion: 43 Resp: 2798

Ion Ratio Lower Upper

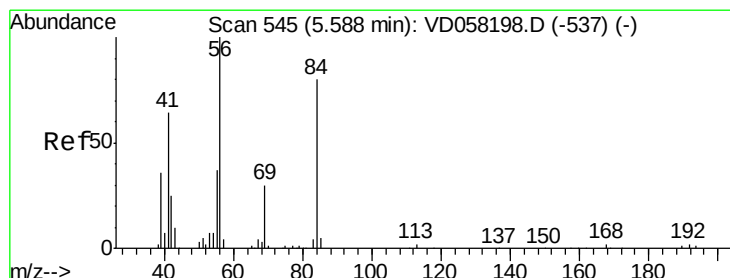
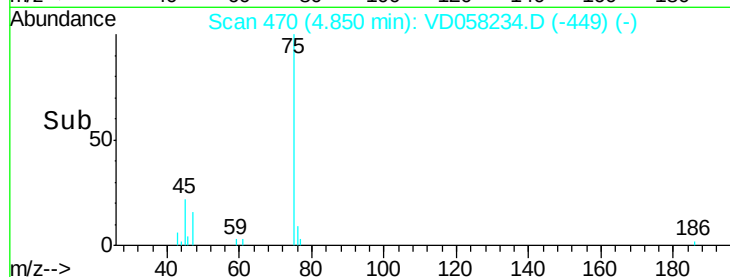
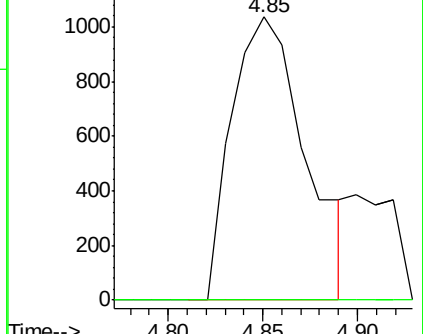
43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 5.66 min Scan# 552

Delta R.T. 0.07 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

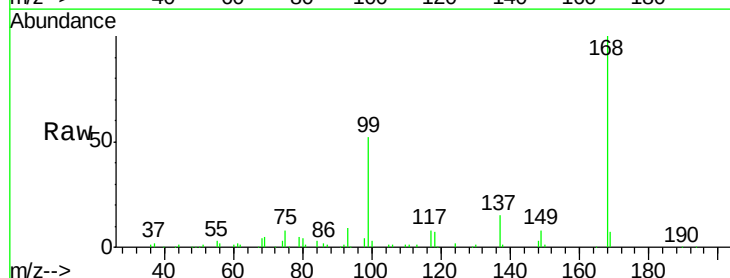
Tgt Ion: 56 Resp: 14606

Ion Ratio Lower Upper

56 100

69 220.8 23.6 35.4#

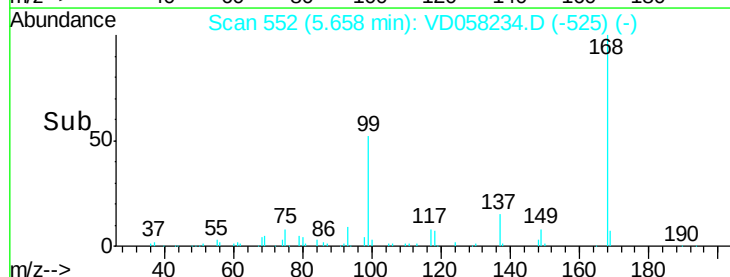
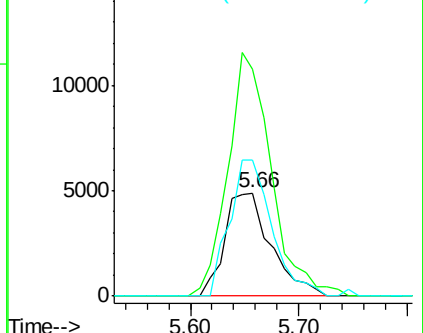
84 131.8 65.2 97.8#

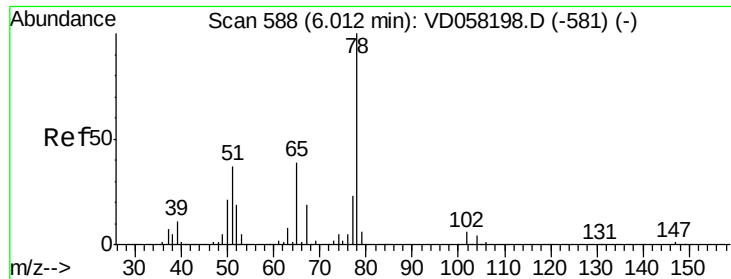


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

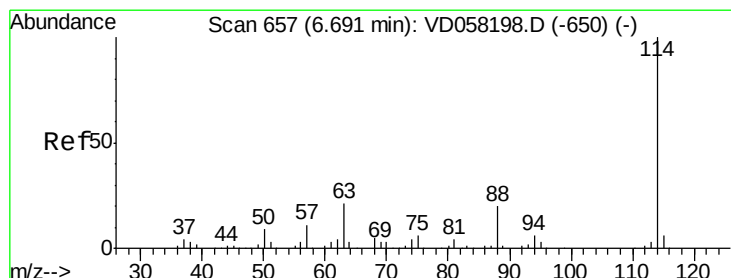
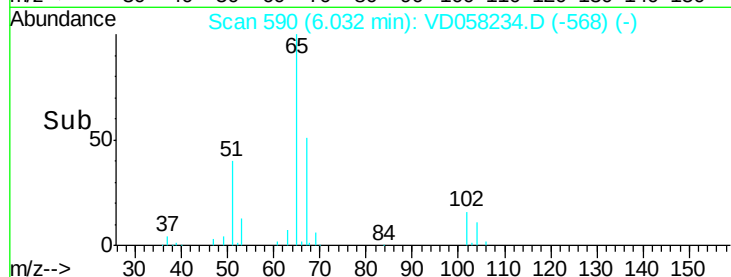
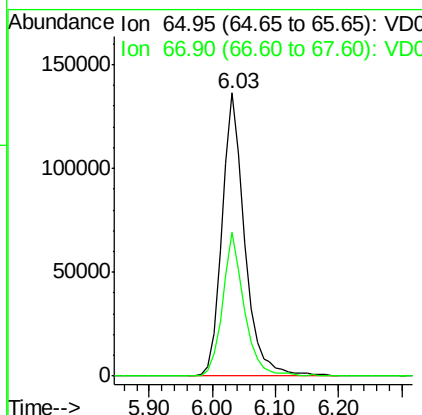
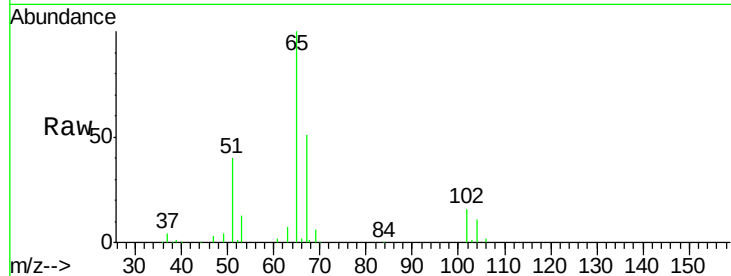




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.03 min Scan# 590
 Delta R.T. 0.02 min
 Lab File: VD058234.D
 Acq: 21 Jun 2018 4:34

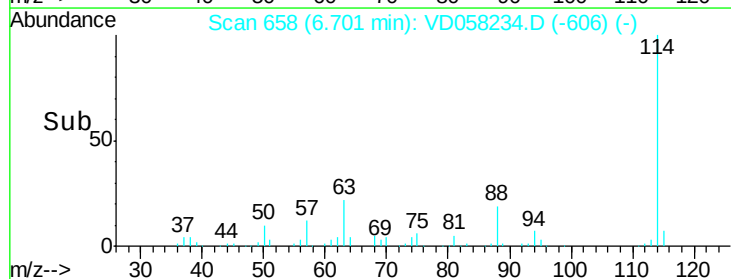
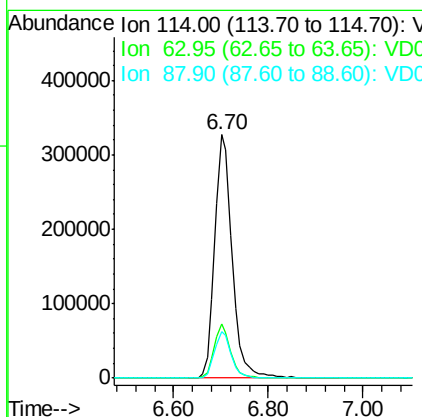
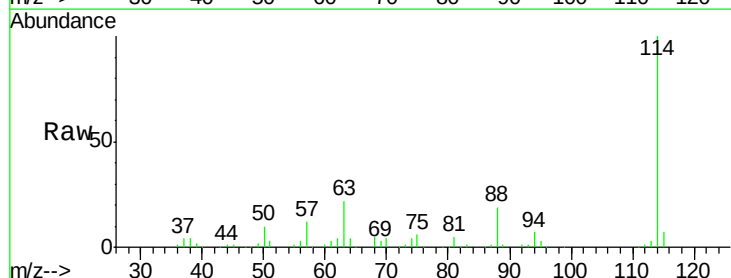
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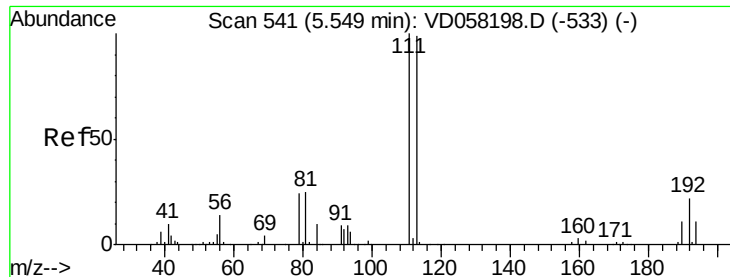
Tot Ion: 65 Resp: 341322
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058234.D
 Acq: 21 Jun 2018 4:34

Tgt Ion: 114 Resp: 834538
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 42.6
 88 19.0 0.0 40.6

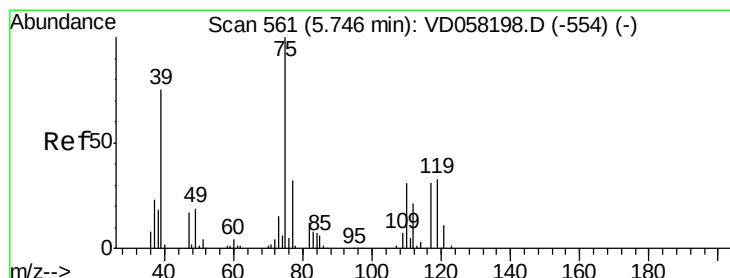
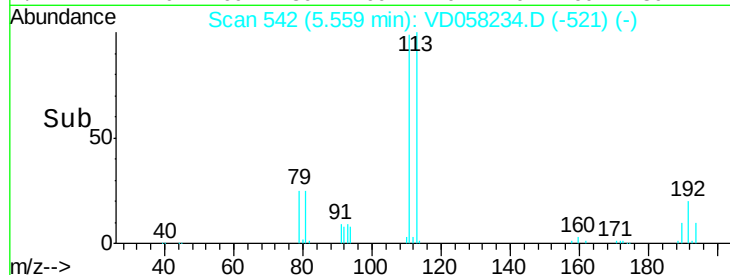
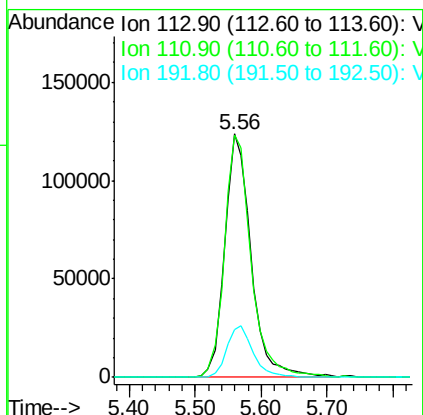
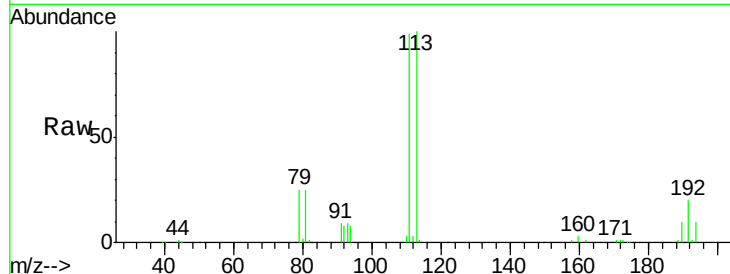




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.56 min Scan# 542
 Delta R.T. 0.01 min
 Lab File: VD058234.D
 Acq: 21 Jun 2018 4:34

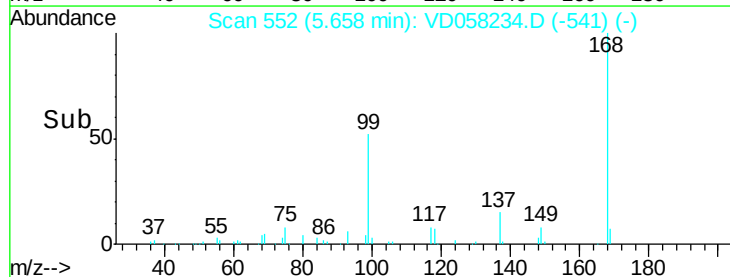
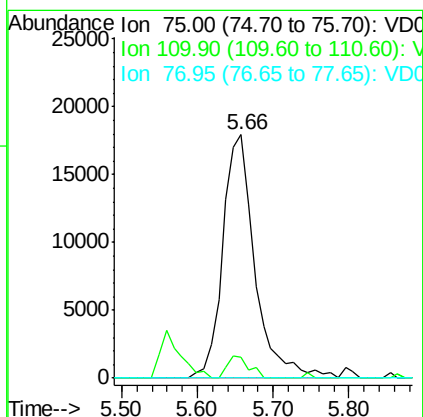
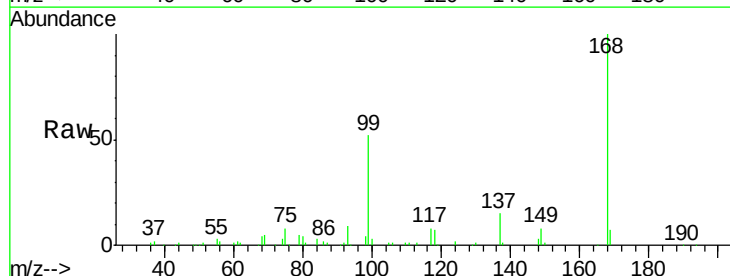
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-PS-01-030

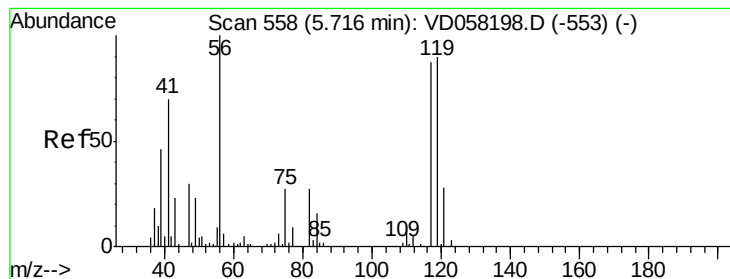
Tot Ion:113 Resp: 347664
 Ion Ratio Lower Upper
 113 100
 111 99.5 80.6 121.0
 192 19.6 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 6.377 ug/l
 RT: 5.66 min Scan# 552
 Delta R.T. -0.09 min
 Lab File: VD058234.D
 Acq: 21 Jun 2018 4:34

Tgt Ion: 75 Resp: 52643
 Ion Ratio Lower Upper
 75 100
 110 8.5 15.4 46.4#
 77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 6.241 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.06 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-030

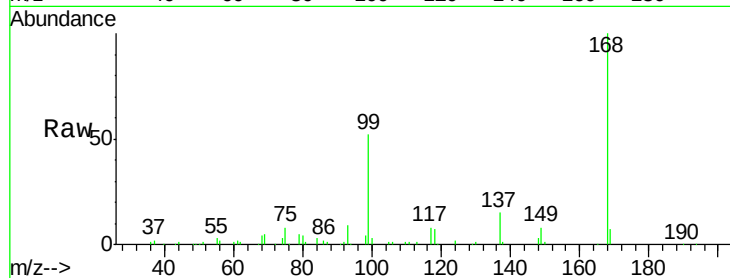
Tot Ion:117 Resp: 51195

Ion Ratio Lower Upper

117 100

119 5.6 78.8 118.2#

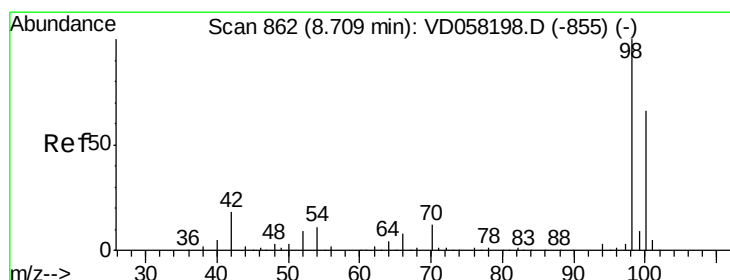
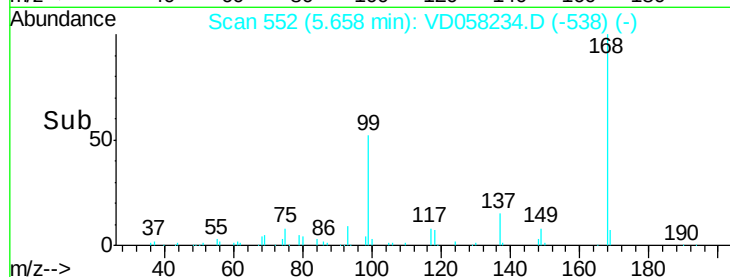
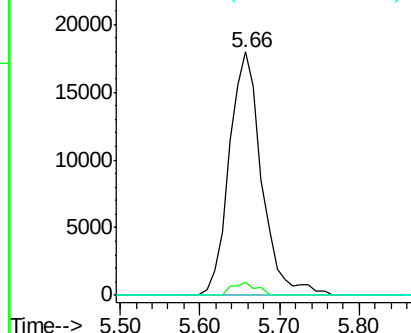
121 0.0 25.0 37.6#



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: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058234.D

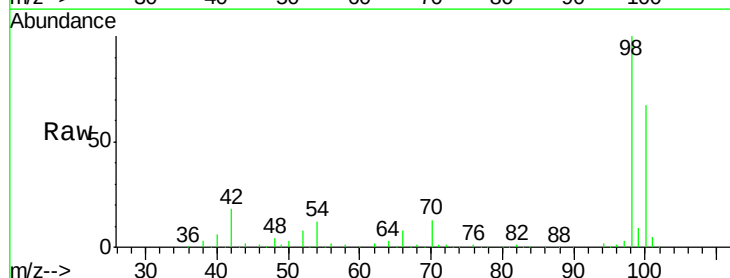
Acq: 21 Jun 2018 4:34

Tgt Ion: 98 Resp: 677280

Ion Ratio Lower Upper

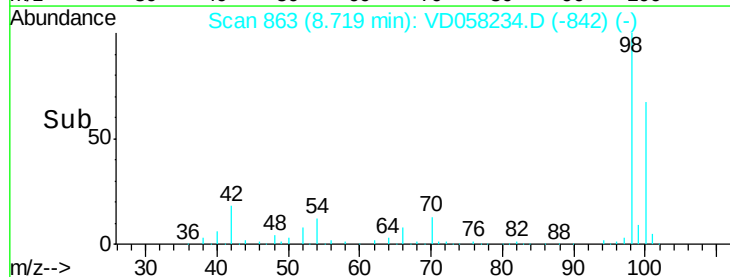
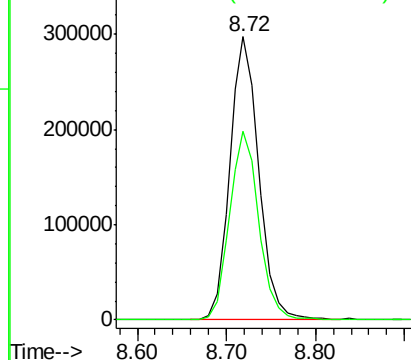
98 100

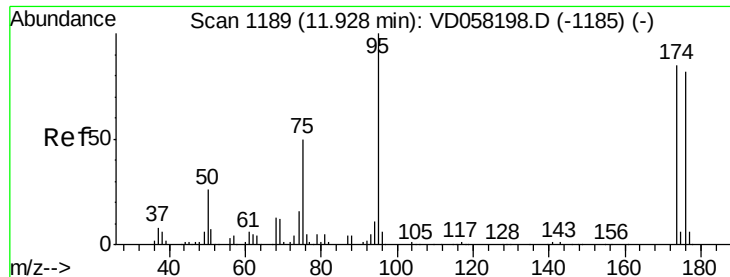
100 66.5 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-030

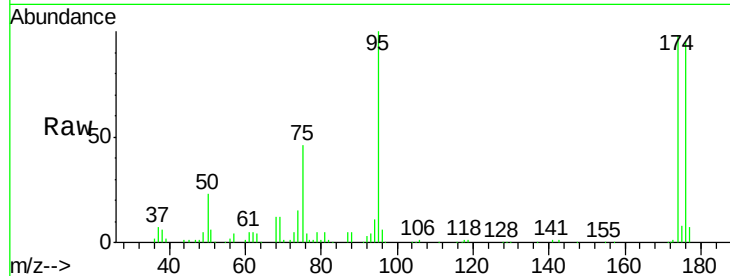
Tot Ion: 95 Resp: 268683

Ion Ratio Lower Upper

95 100

174 98.3 0.0 170.2

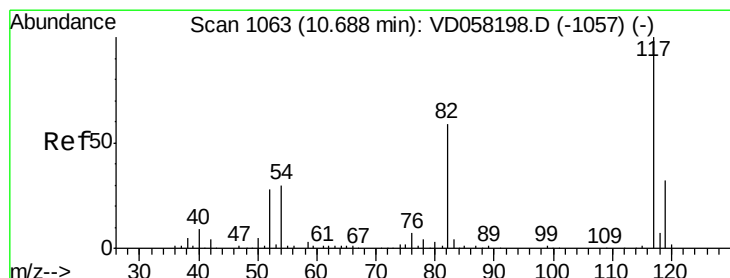
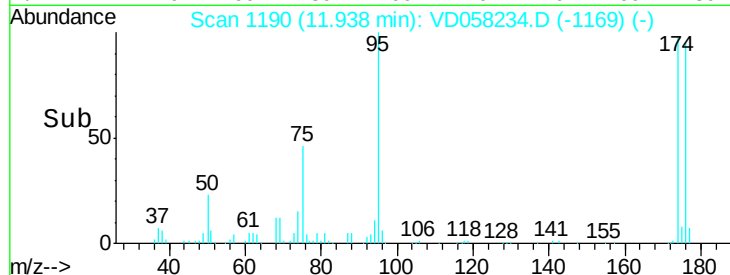
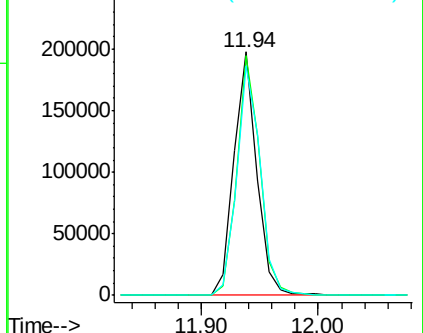
176 94.5 0.0 164.6



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: 10.70 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

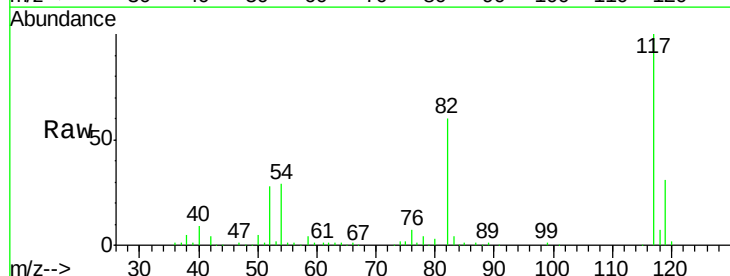
Tgt Ion: 117 Resp: 607655

Ion Ratio Lower Upper

117 100

82 59.6 47.0 70.6

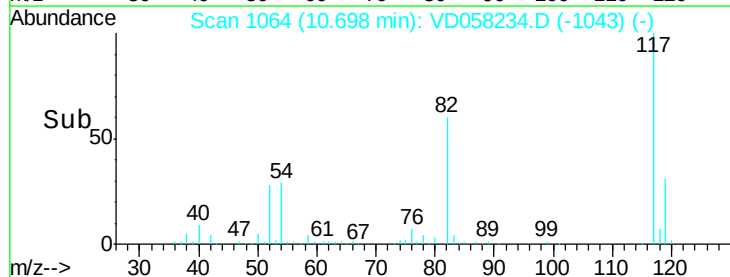
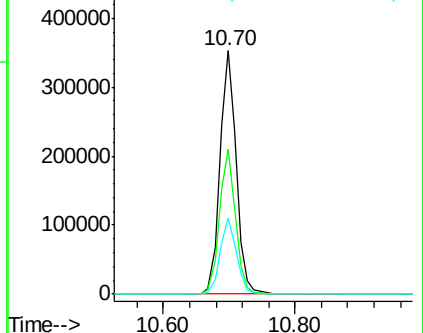
119 31.0 25.3 37.9

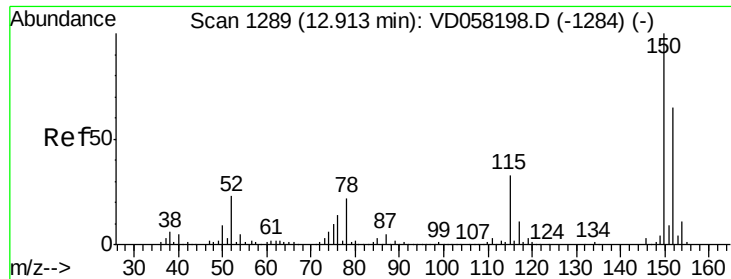


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-030

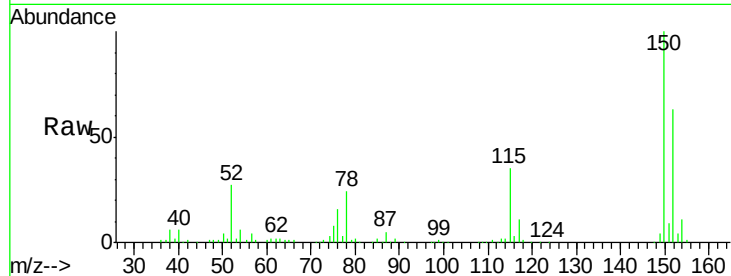
Tot Ion:152 Resp: 255839

Ion Ratio Lower Upper

152 100

115 55.3 25.1 75.3

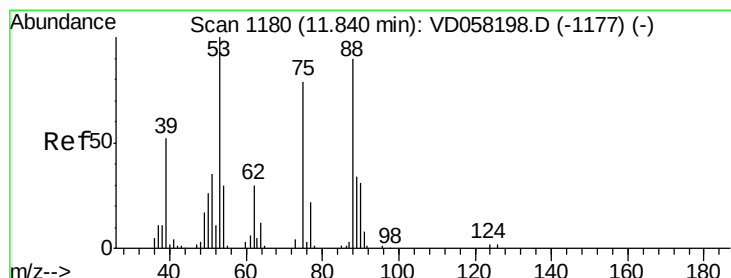
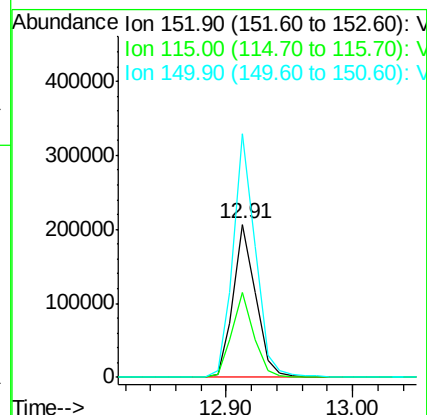
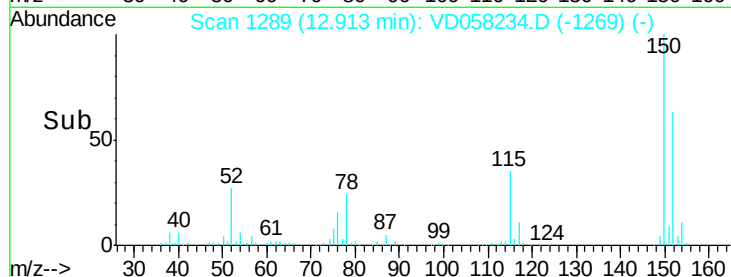
150 159.4 0.0 308.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 136.591 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058234.D

Acq: 21 Jun 2018 4:34

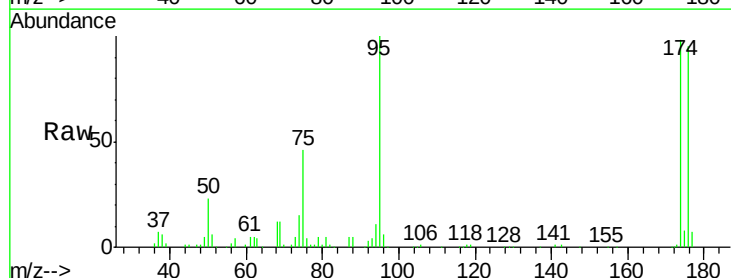
Tgt Ion: 75 Resp: 124437

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

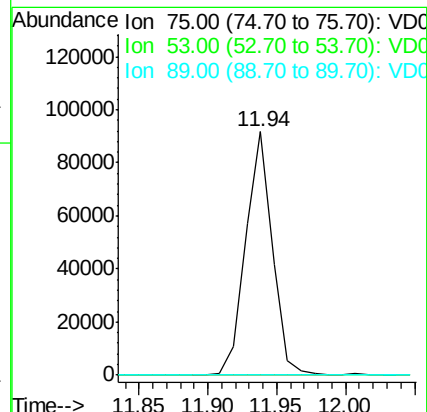
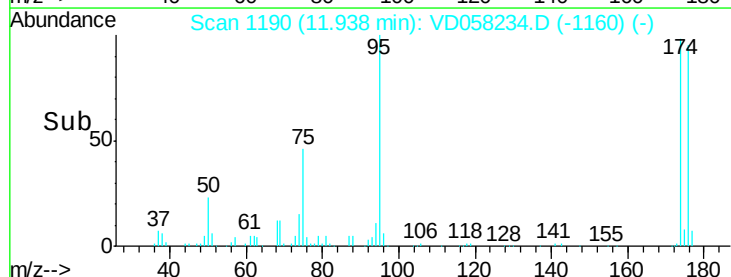
89 0.0 34.6 52.0#

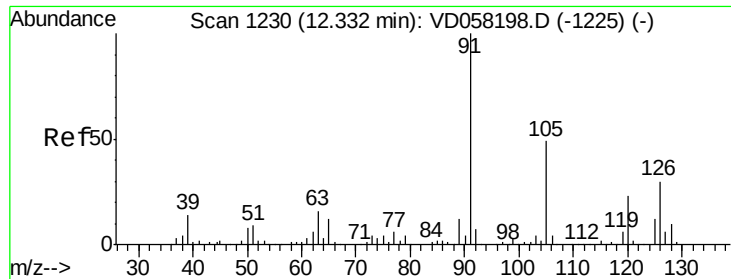


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.16 min Scan# 1213
 Delta R.T. -0.17 min
 Lab File: VD058234.D
 Acq: 21 Jun 2018 4:34

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-PS-01-030

Tot Ion: 91 Resp: 230
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.9#

