

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\
 Data File : VD061530.D
 Acq On : 2 Apr 2019 22:34
 Operator : VA/AP
 Sample : K2184-02RE
 Misc : 4.28g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-001RE

Quant Time: Apr 03 01:56:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	475513	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	831240	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.37	117	620788	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	267946	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	267429	65.84	ug/l	0.03
Spiked Amount			Recovery	=	131.68%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
50) Toluene-d8	10.41	98	760160	49.89	ug/l	0.03
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	13.55	95	287520	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	

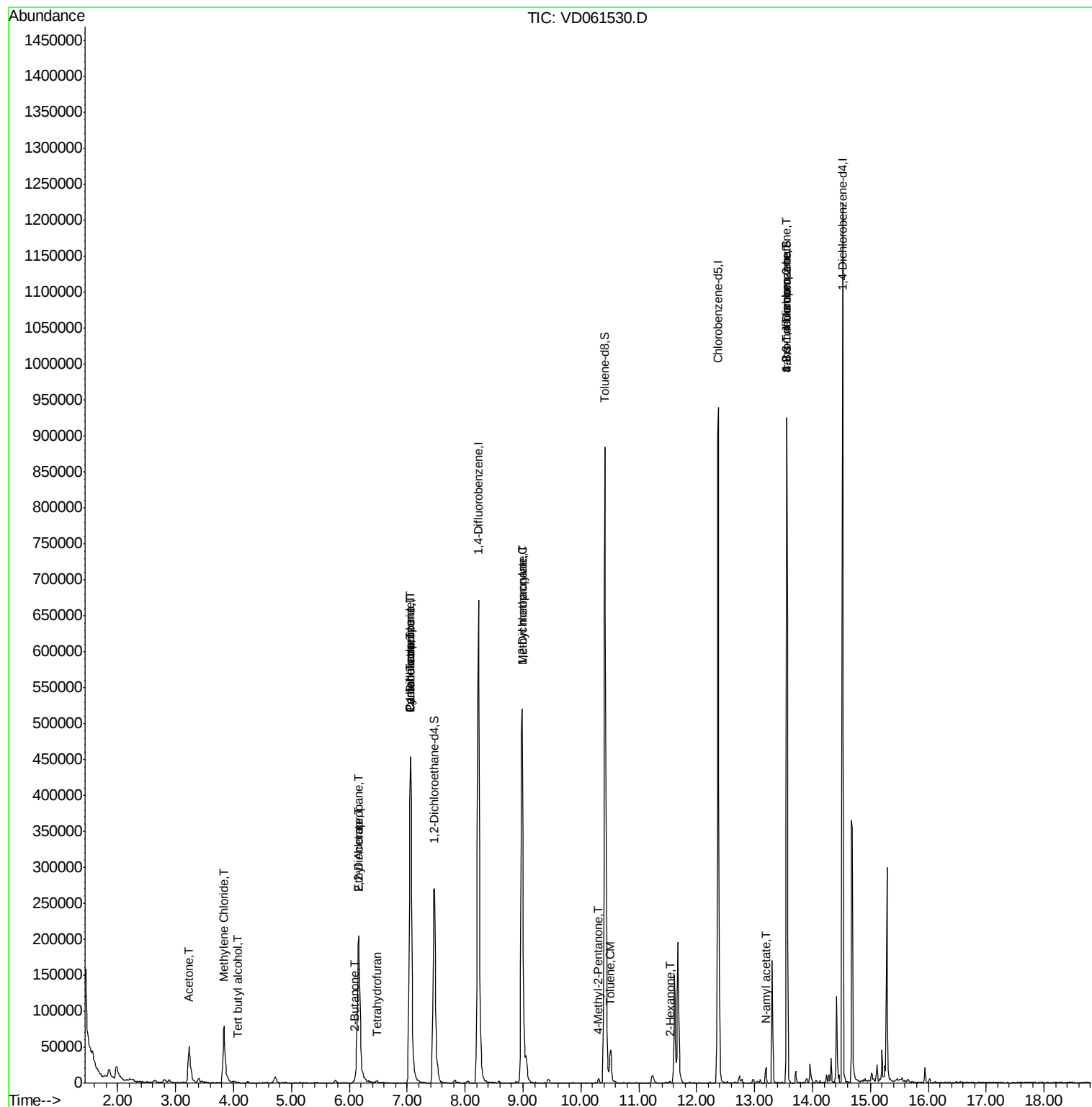
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.07	59	1947	7.697	ug/l #	76
16) Acetone	3.23	43	112000	107.258	ug/l	94
20) Methylene Chloride	3.84	84	61536	8.943	ug/l	94
25) 2-Butanone	6.09	43	8790	6.692	ug/l #	85
26) 2,2-Dichloropropane	6.16	77	14385	2.044	ug/l #	50
29) Tetrahydrofuran	6.48	42	2481	3.897	ug/l #	79
31) Cyclohexane	7.06	56	8211	1.174	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	36016	4.964	ug/l #	46
37) Ethyl Acetate	6.16	43	12620	4.067	ug/l #	1
38) Carbon Tetrachloride	7.06	117	47385	5.684	ug/l #	13
45) 1,2-Dichloropropane	8.99	63	15277	3.309	ug/l #	43
48) Methyl methacrylate	8.99	41	80585	32.345	ug/l #	49
51) 4-Methyl-2-Pentanone	10.31	43	5419	1.973	ug/l #	86
52) Toluene	10.51	92	23934	2.155	ug/l	83
59) 2-Hexanone	11.54	43	3295	1.656	ug/l	95
74) N-amyl acetate	13.20	43	14001	2.695	ug/l #	50
76) 1,2,3-Trichloropropane	13.55	75	82974	21.437	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.55	75	106775	90.477	ug/l #	18

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040219\
Data File : VD061530.D
Acq On : 2 Apr 2019 22:34
Operator : VA/AP
Sample : K2184-02RE
Misc : 4.28g/5ml/MSVOA D/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-001RE

Quant Time: Apr 03 01:56:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.04 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

Instrument :

MSVOA_D

ClientSampleId :

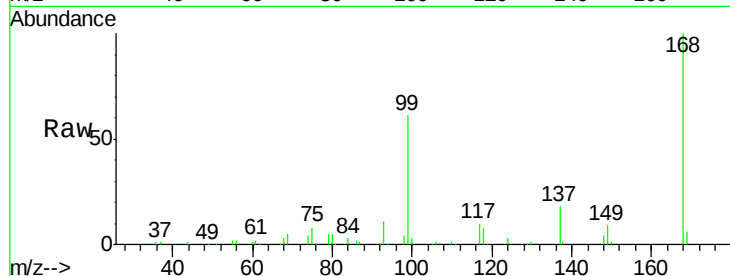
FK-0D015-03-001RE

Tot Ion:168 Resp: 475513

Ion Ratio Lower Upper

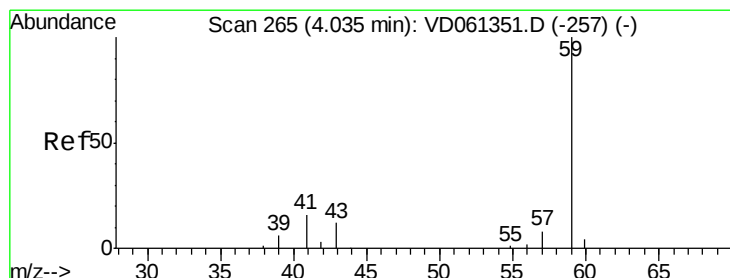
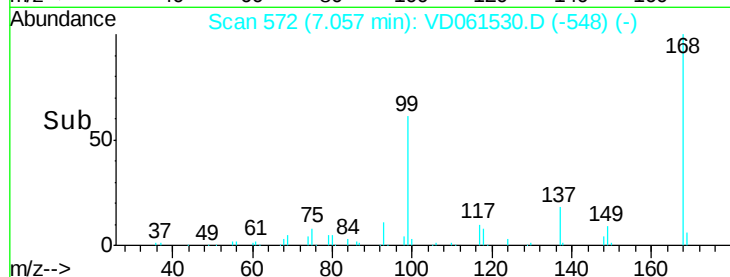
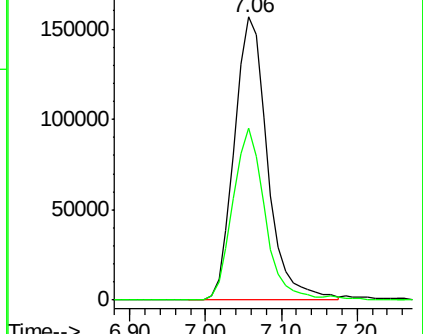
168 100

99 60.9 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: 7.697 ug/l

RT: 4.07 min Scan# 269

Delta R.T. 0.04 min

Lab File: VD061530.D

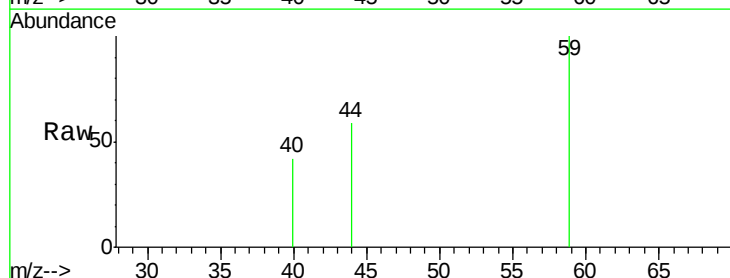
Acq: 2 Apr 2019 22:34

Tgt Ion: 59 Resp: 1947

Ion Ratio Lower Upper

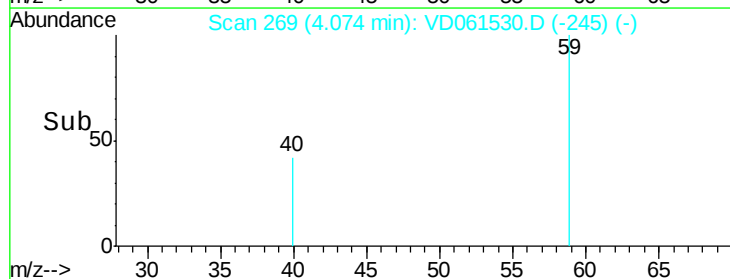
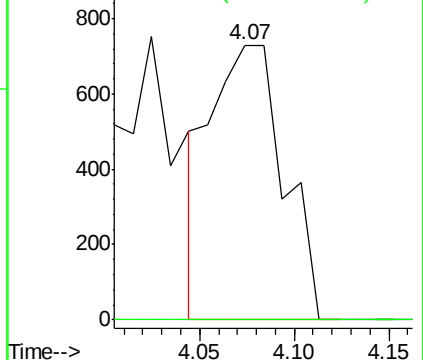
59 100

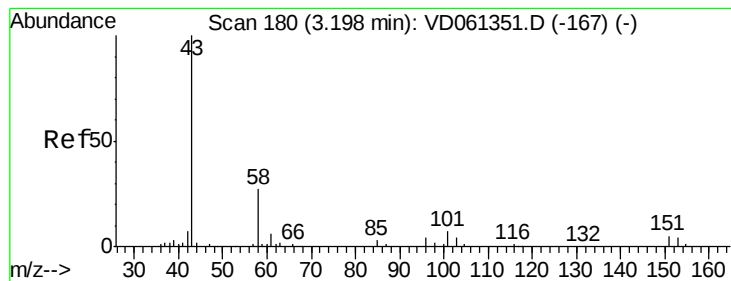
57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 107.258 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

Instrument :

MSVOA_D

ClientSampleId :

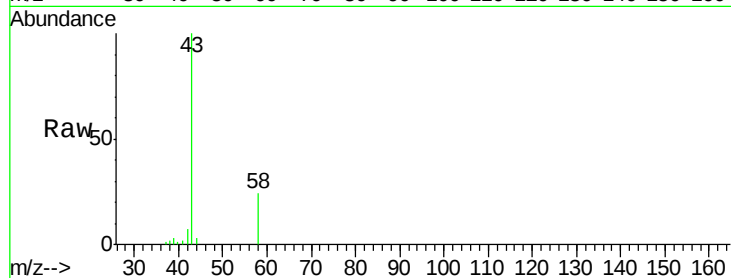
FK-0D015-03-001RE

Tot Ion: 43 Resp: 112000

Ion Ratio Lower Upper

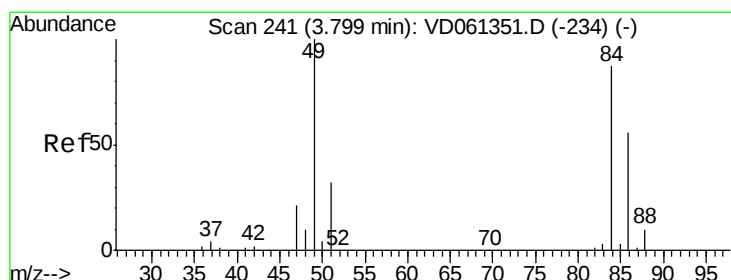
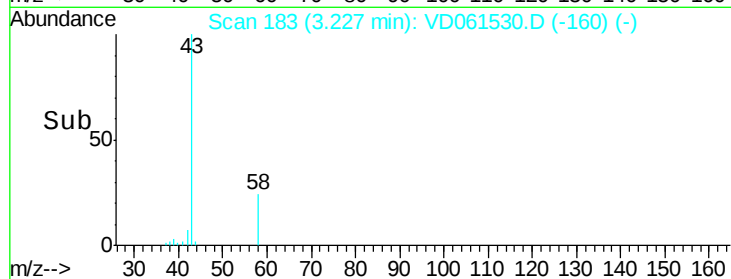
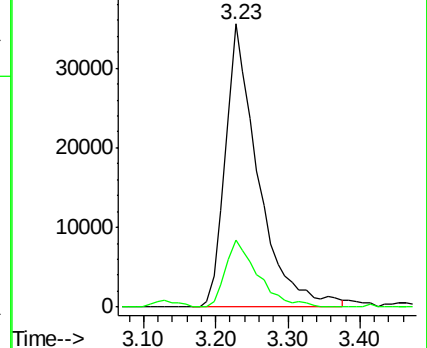
43 100

58 23.8 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: 8.943 ug/l

RT: 3.84 min Scan# 245

Delta R.T. 0.04 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

Tgt Ion: 84 Resp: 61536

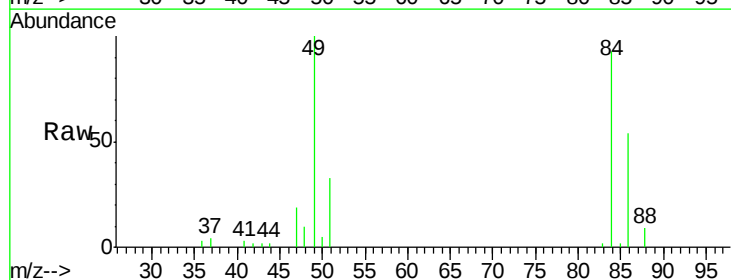
Ion Ratio Lower Upper

84 100

49 107.9 91.8 137.8

51 35.5 29.8 44.8

86 58.7 51.8 77.6

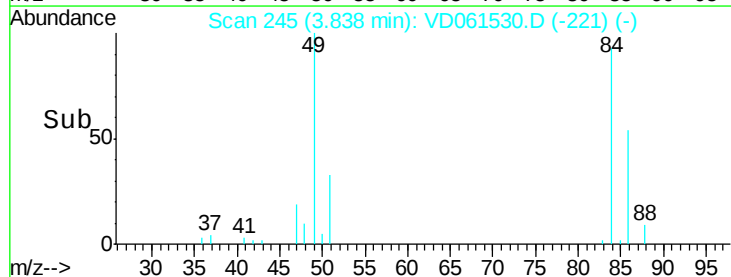
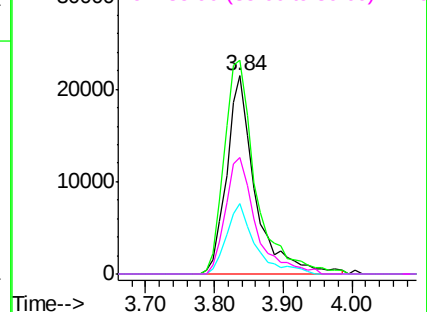


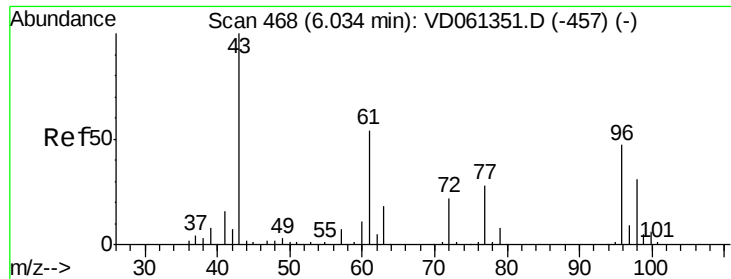
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 6.692 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.06 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

Instrument :

MSVOA_D

ClientSampleId :

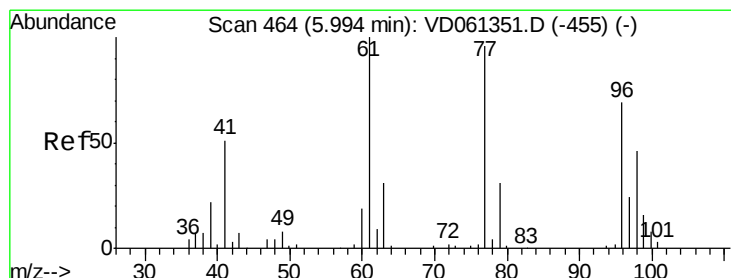
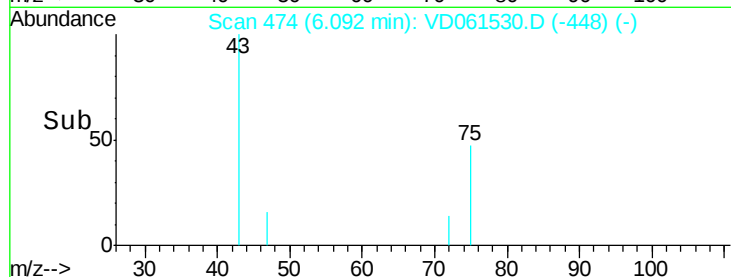
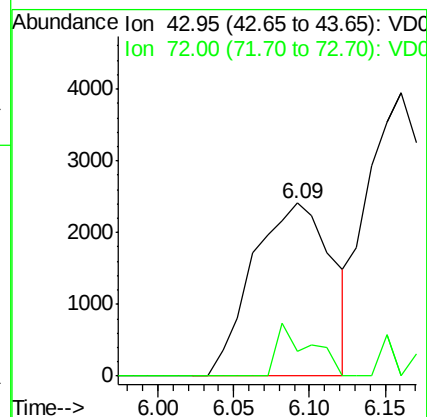
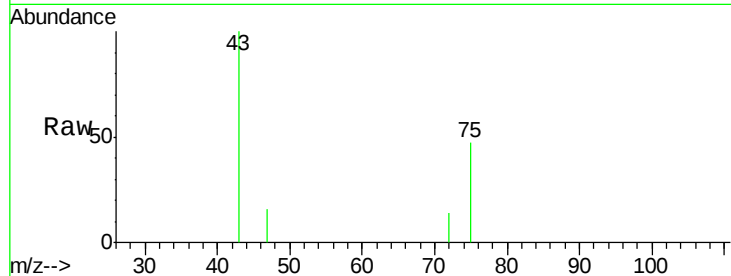
FK-0D015-03-001RE

Tot Ion: 43 Resp: 8790

Ion Ratio Lower Upper

43 100

72 14.3 17.2 25.8#



#26

2,2-Dichloropropane

Concen: 2.044 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.17 min

Lab File: VD061530.D

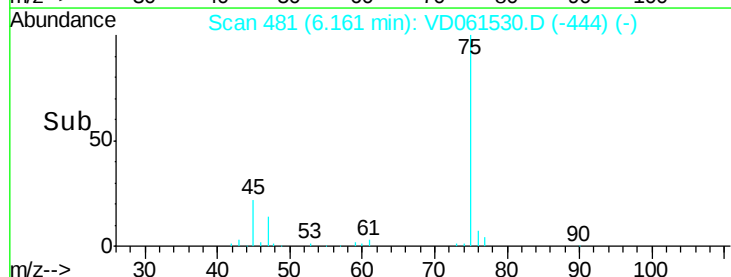
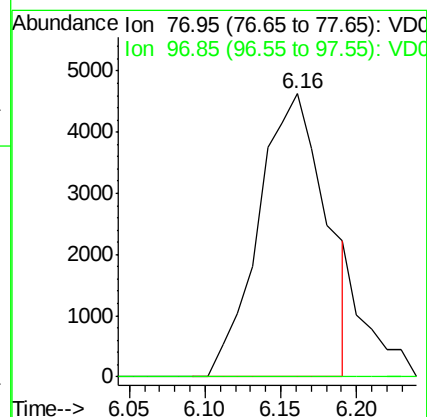
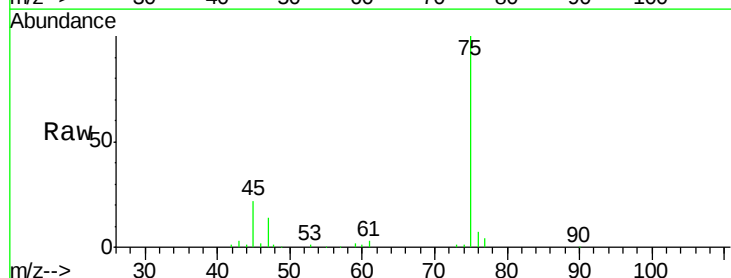
Acq: 2 Apr 2019 22:34

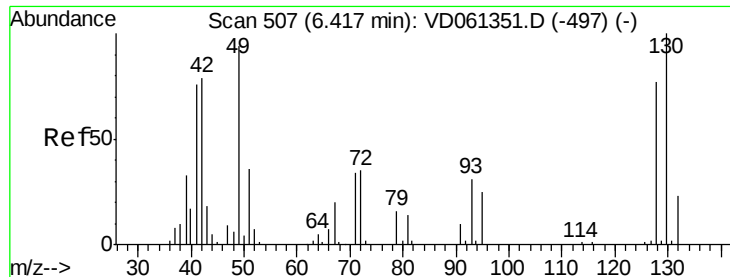
Tgt Ion: 77 Resp: 14385

Ion Ratio Lower Upper

77 100

97 0.0 12.7 38.0#

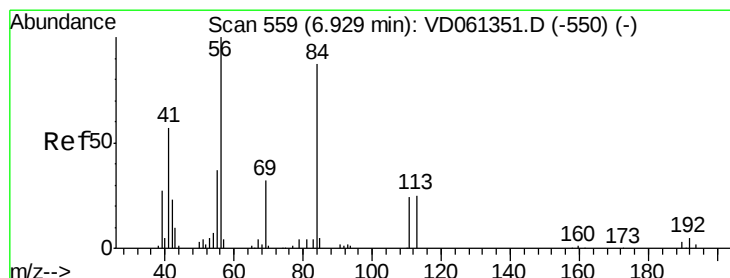
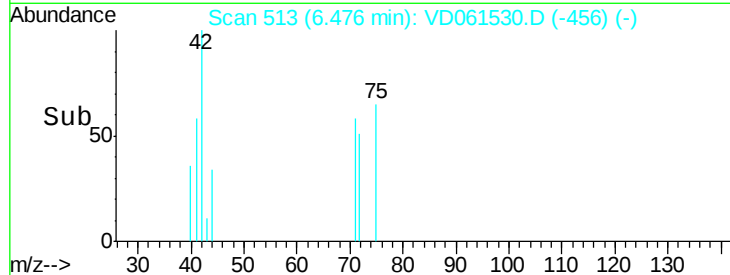
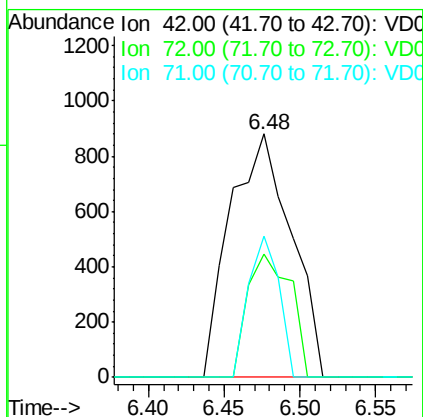
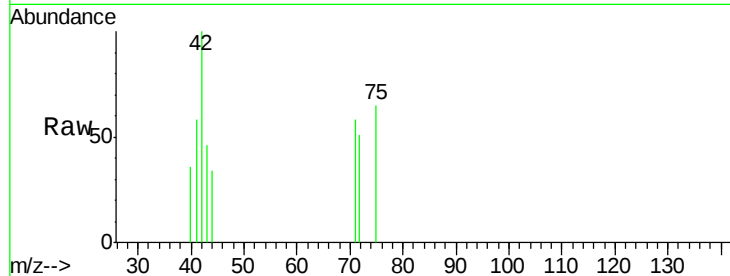




#29
Tetrahydrofuran
Concen: 3.897 ug/l
RT: 6.48 min Scan# 513
Delta R.T. 0.06 min
Lab File: VD061530.D
Acq: 2 Apr 2019 22:34

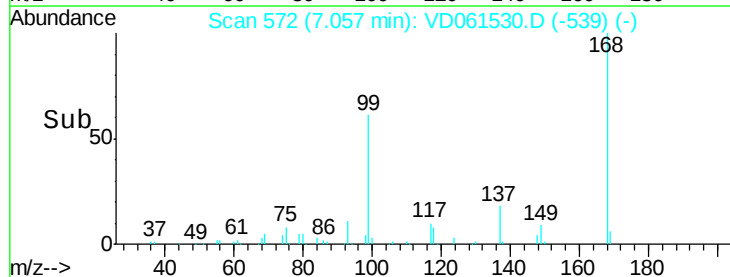
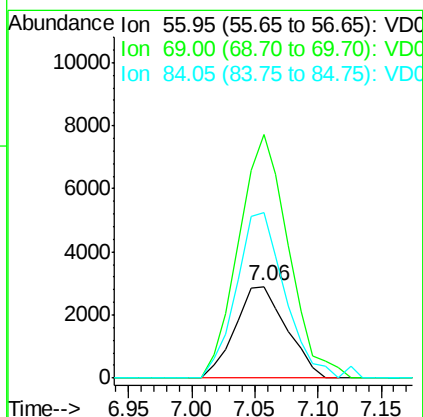
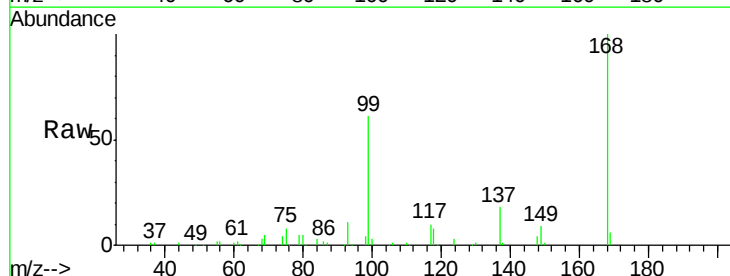
Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-001RE

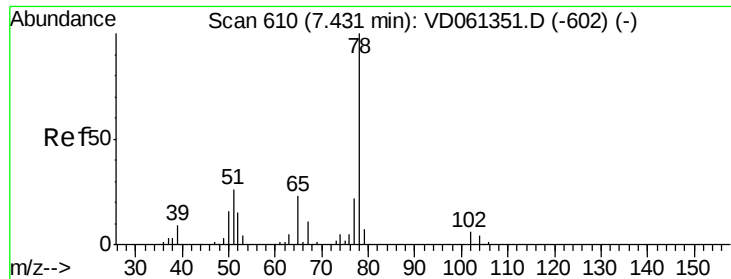
Tot Ion: 42 Resp: 2481
Ion Ratio Lower Upper
42 100
72 35.5 37.4 56.0#
71 28.9 36.7 55.1#



#31
Cyclohexane
Concen: 1.174 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.13 min
Lab File: VD061530.D
Acq: 2 Apr 2019 22:34

Tgt Ion: 56 Resp: 8211
Ion Ratio Lower Upper
56 100
69 266.3 25.7 38.5#
84 180.5 70.6 105.8#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.03 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

Instrument :

MSVOA_D

ClientSampleId :

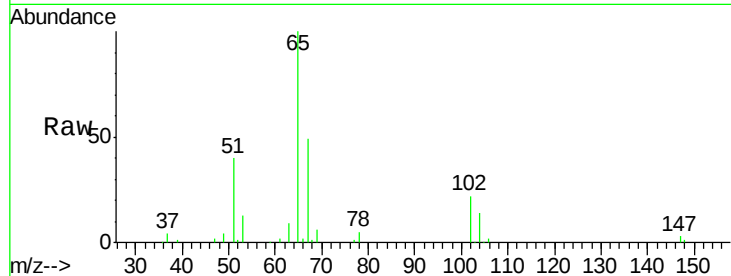
FK-0D015-03-001RE

Tot Ion: 65 Resp: 267429

Ion Ratio Lower Upper

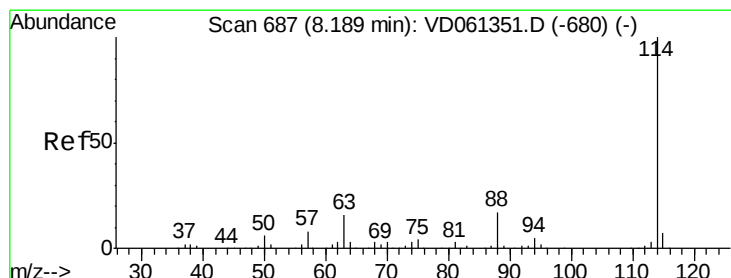
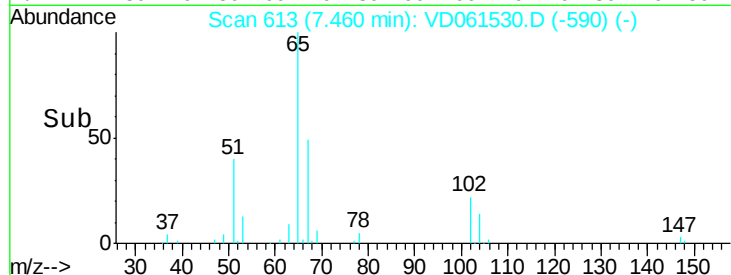
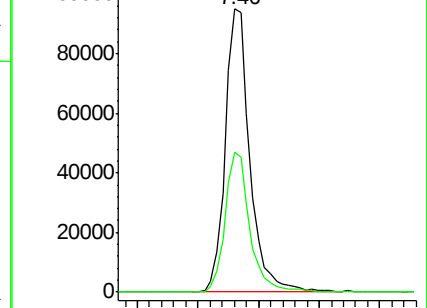
65 100

67 49.4 0.0 99.8



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: 8.23 min Scan# 691

Delta R.T. 0.04 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

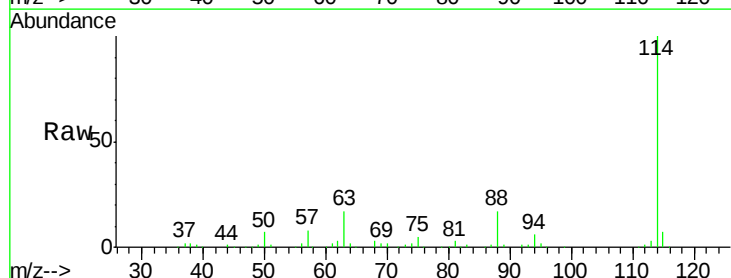
Tgt Ion: 114 Resp: 831240

Ion Ratio Lower Upper

114 100

63 16.8 0.0 31.6

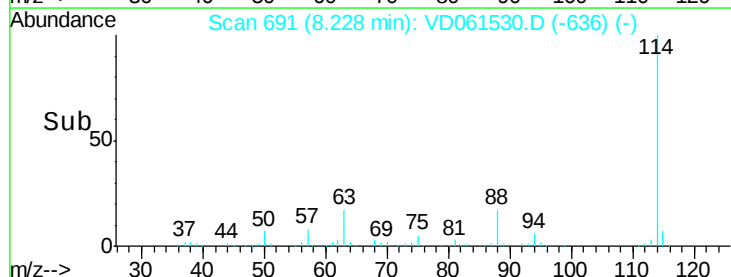
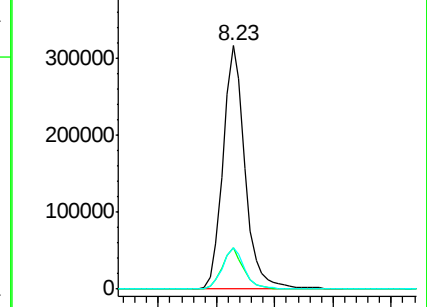
88 17.2 0.0 33.4

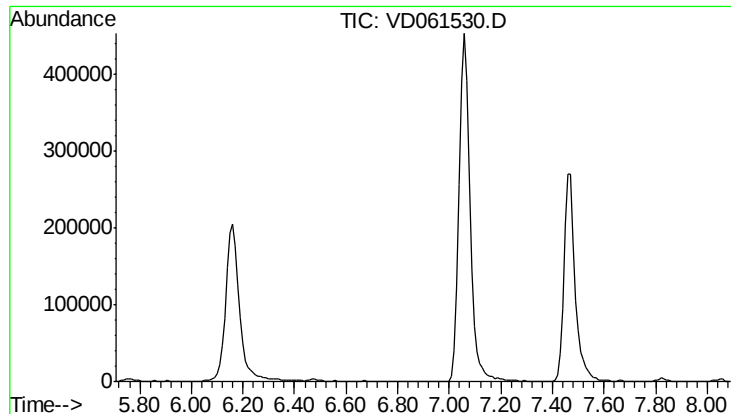


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC



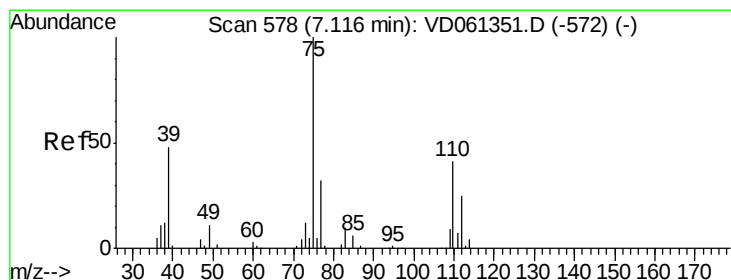
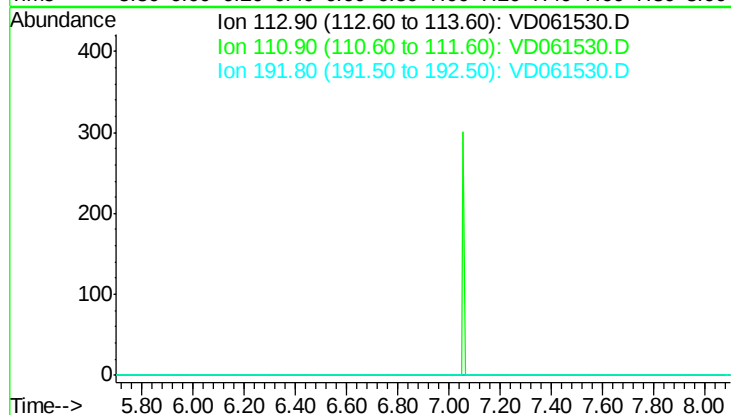


#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 Expected RT: 6.90 min

Lab File: VD061530.D
 Acq: 2 Apr 2019 22:34

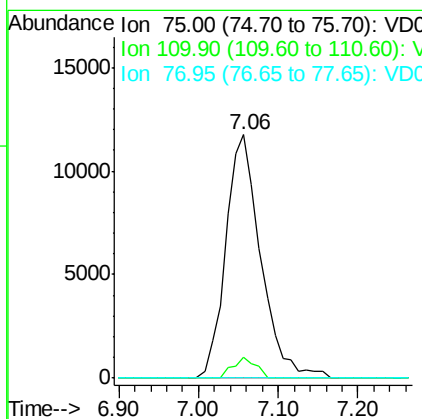
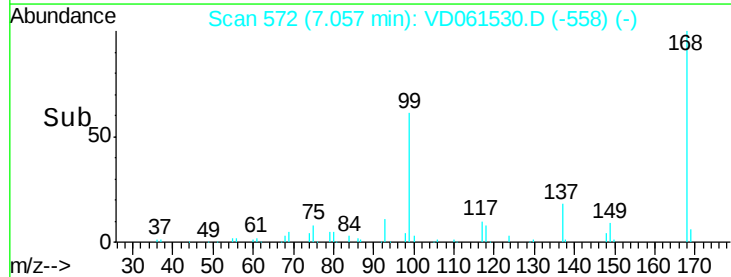
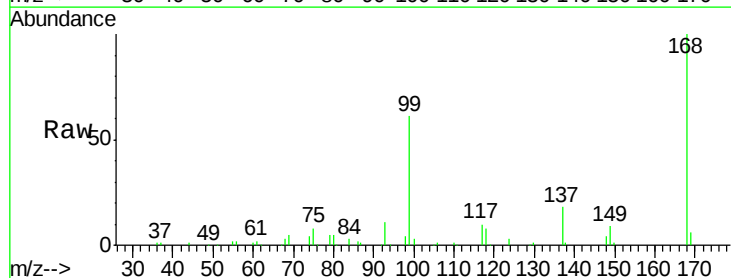
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-001RE

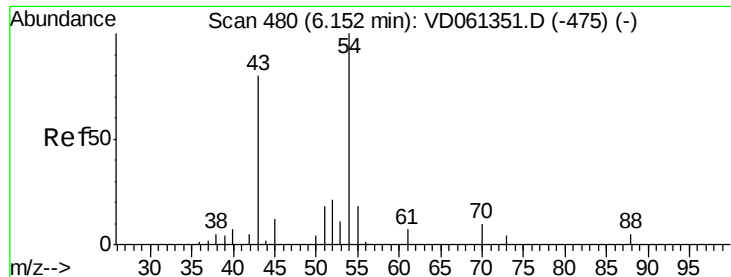
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 101.3
 192 18.0



#36
 1,1-Dichloropropene
 Concen: 4.964 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.06 min
 Lab File: VD061530.D
 Acq: 2 Apr 2019 22:34

Tgt Ion: 75 Resp: 36016
 Ion Ratio Lower Upper
 75 100
 110 8.7 20.4 61.3#
 77 0.0 24.9 37.3#

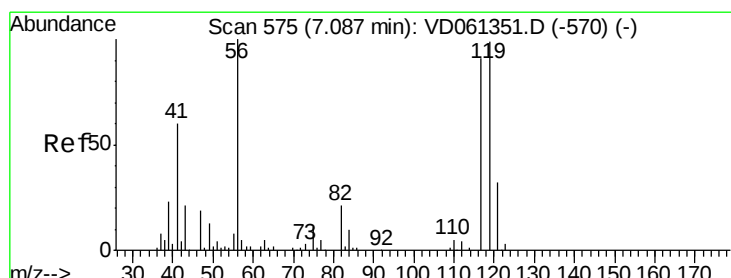
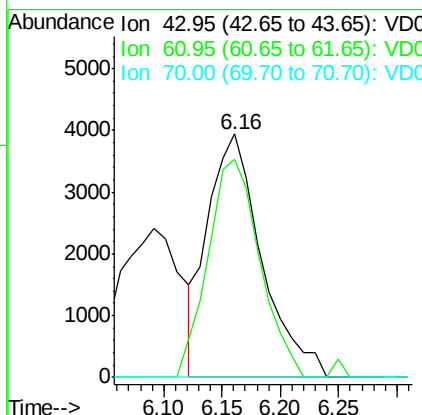
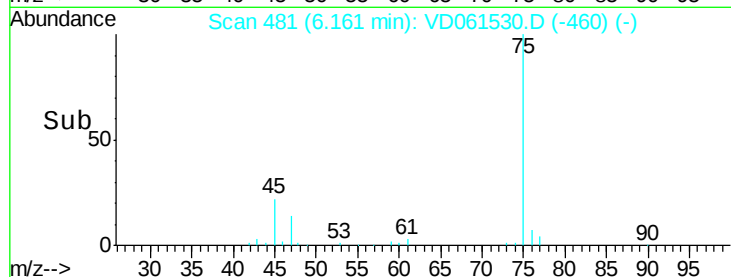
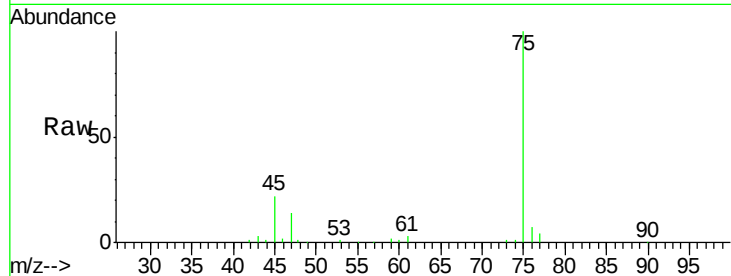




#37
Ethyl Acetate
Concen: 4.067 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.01 min
Lab File: VD061530.D
Acq: 2 Apr 2019 22:34

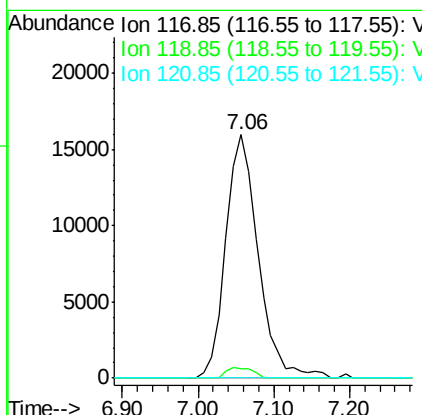
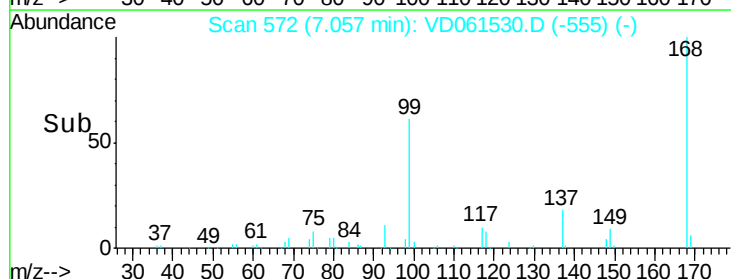
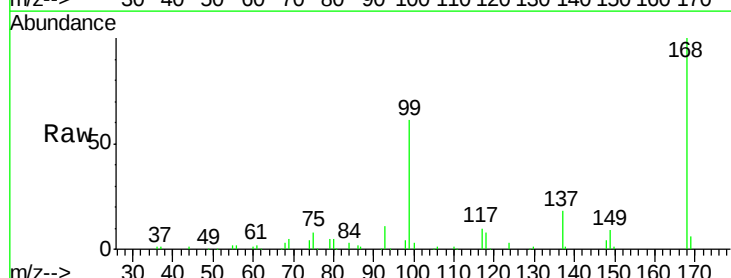
Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-001RE

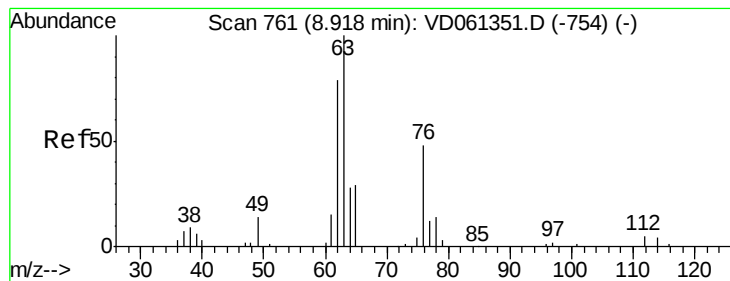
Tot Ion: 43 Resp: 12620
Ion Ratio Lower Upper
43 100
61 89.5 13.8 20.8#
70 0.0 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 5.684 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.03 min
Lab File: VD061530.D
Acq: 2 Apr 2019 22:34

Tgt Ion: 117 Resp: 47385
Ion Ratio Lower Upper
117 100
119 3.9 80.1 120.1#
121 0.0 25.6 38.4#





#45

1,2-Dichloropropane

Concen: 3.309 ug/l

RT: 8.99 min Scan# 768

Delta R.T. 0.07 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

Instrument :

MSVOA_D

ClientSampleId :

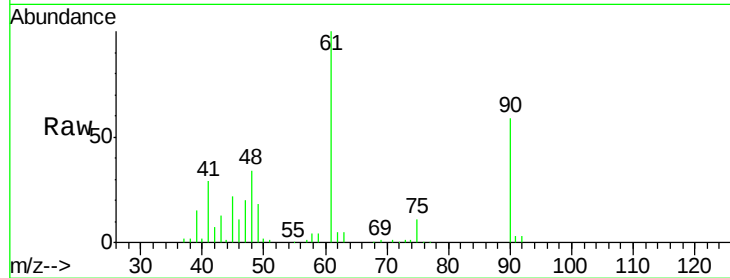
FK-0D015-03-001RE

Tot Ion: 63 Resp: 15277

Ion Ratio Lower Upper

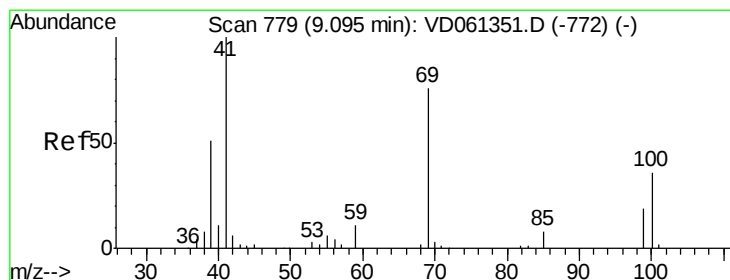
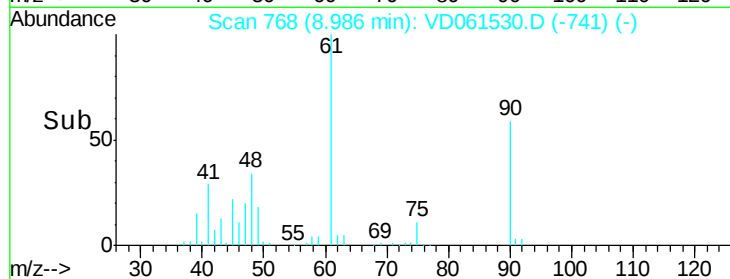
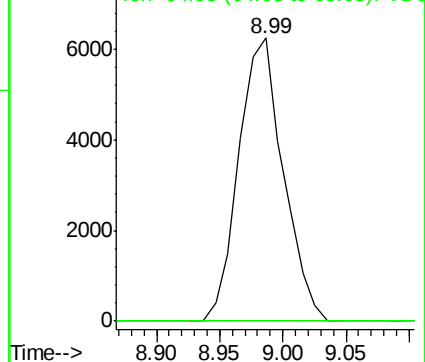
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#48

Methyl methacrylate

Concen: 32.345 ug/l

RT: 8.99 min Scan# 768

Delta R.T. -0.11 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

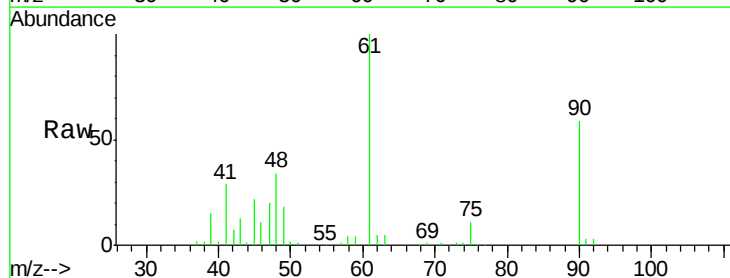
Tgt Ion: 41 Resp: 80585

Ion Ratio Lower Upper

41 100

69 2.9 60.2 90.4#

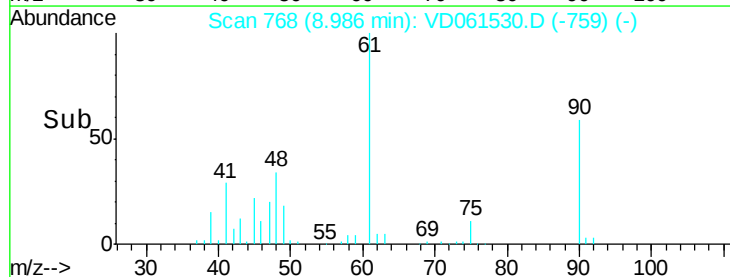
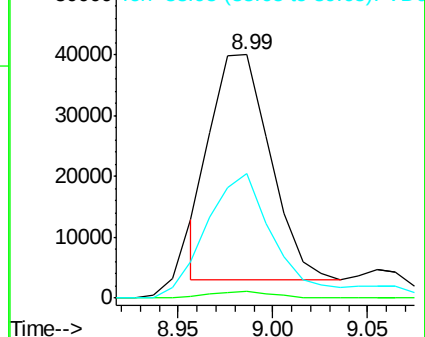
39 51.3 41.4 62.2

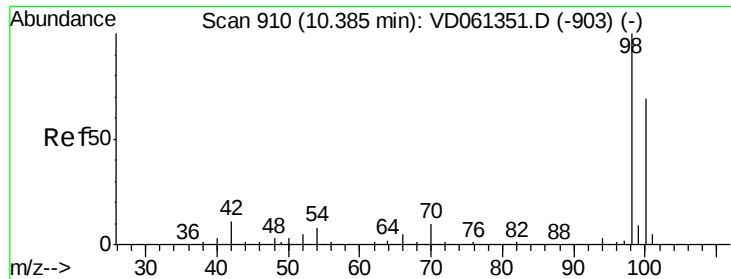


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

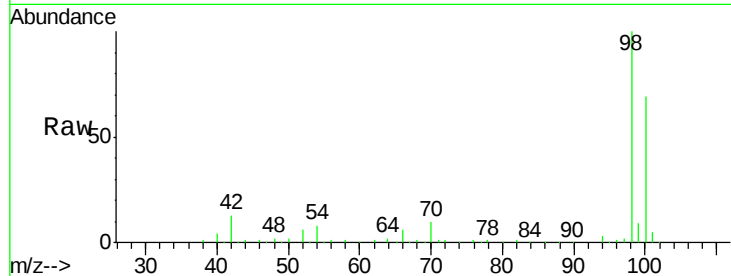




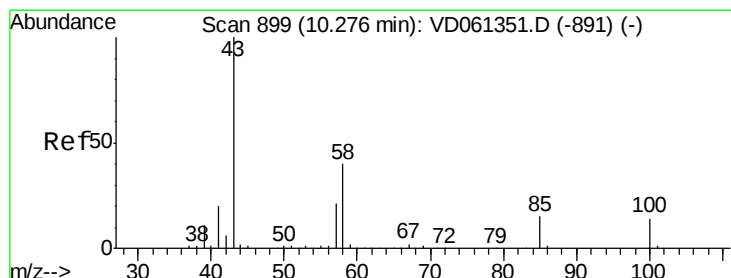
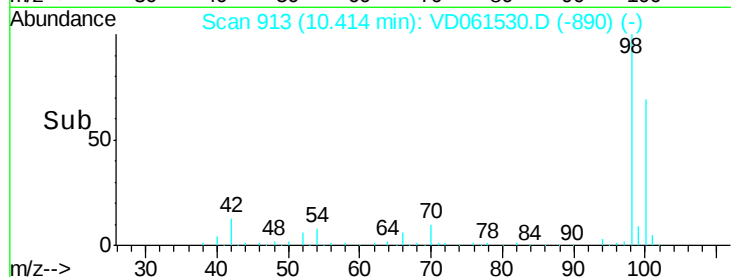
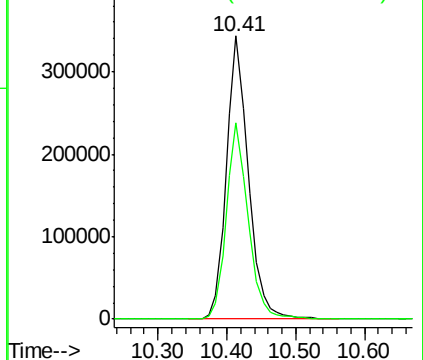
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.03 min
Lab File: VD061530.D
Acq: 2 Apr 2019 22:34

Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-001RE

Tot Ion: 98 Resp: 760160
Ion Ratio Lower Upper
98 100
100 69.3 56.2 84.2

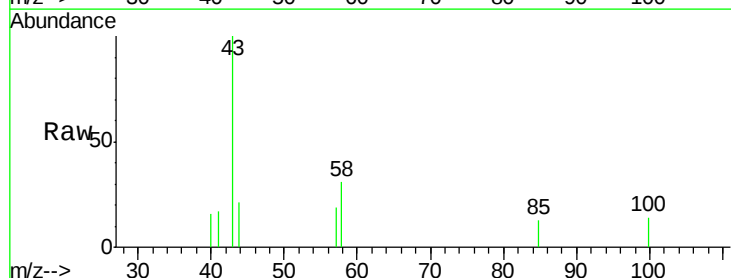


Abundance Ion 98.05 (97.75 to 98.75): VD061530.D (-890) (-)
Ion 100.05 (99.75 to 100.75): VD061530.D (-890) (-)

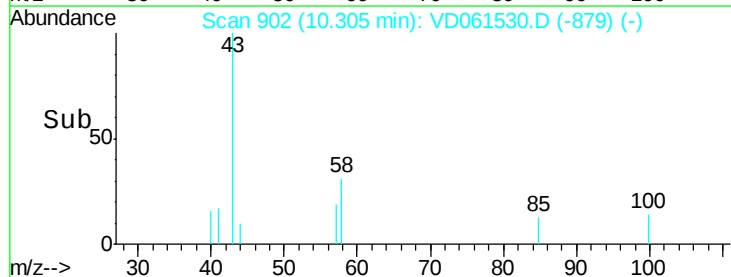
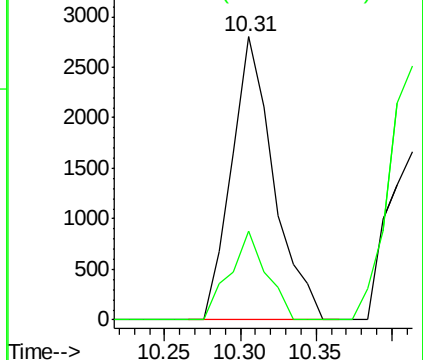


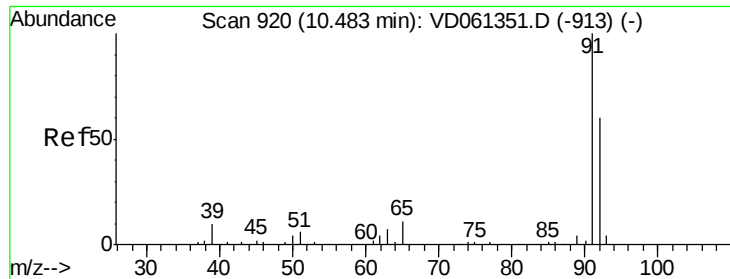
#51
4-Methyl-2-Pentanone
Concen: 1.973 ug/l
RT: 10.31 min Scan# 902
Delta R.T. 0.03 min
Lab File: VD061530.D
Acq: 2 Apr 2019 22:34

Tgt Ion: 43 Resp: 5419
Ion Ratio Lower Upper
43 100
58 31.2 31.8 47.8#



Abundance Ion 42.95 (42.65 to 43.65): VD061530.D (-879) (-)
Ion 57.95 (57.65 to 58.65): VD061530.D (-879) (-)





#52

Toluene

Concen: 2.155 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.03 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

Instrument :

MSVOA_D

ClientSampleId :

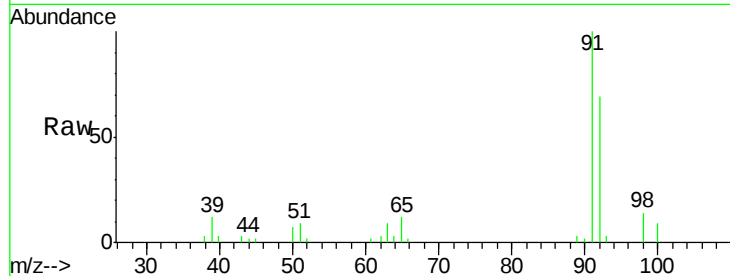
FK-0D015-03-001RE

Tot Ion: 92 Resp: 23934

Ion Ratio Lower Upper

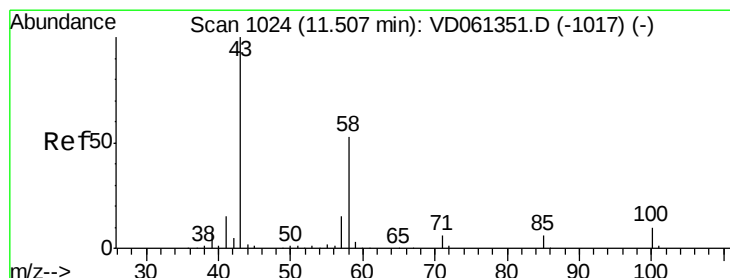
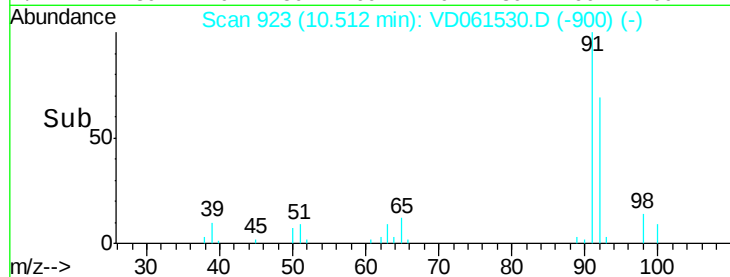
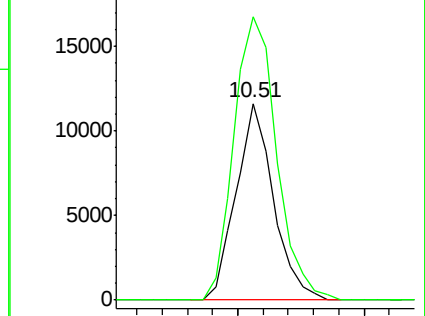
92 100

91 144.0 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 1.656 ug/l

RT: 11.54 min Scan# 1027

Delta R.T. 0.03 min

Lab File: VD061530.D

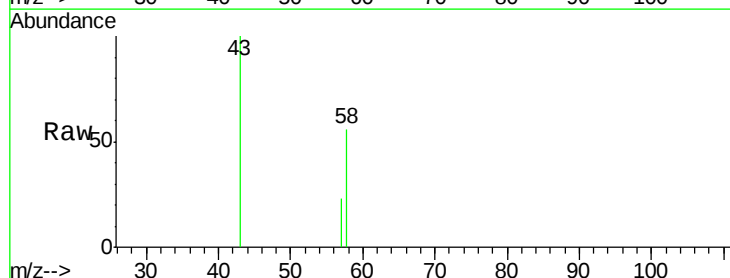
Acq: 2 Apr 2019 22:34

Tgt Ion: 43 Resp: 3295

Ion Ratio Lower Upper

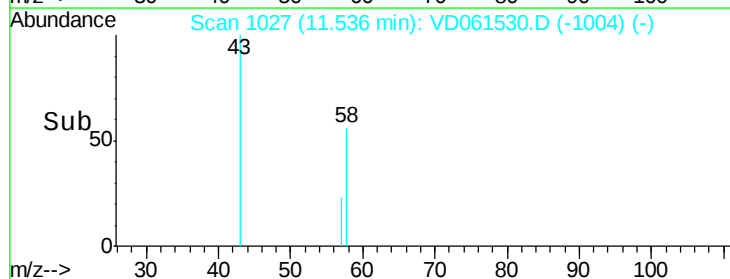
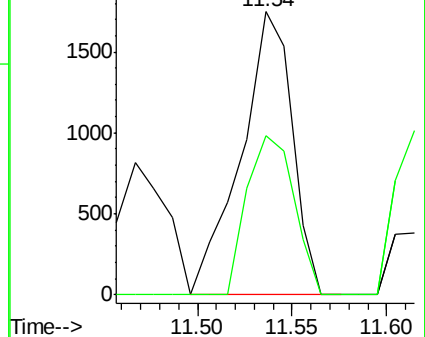
43 100

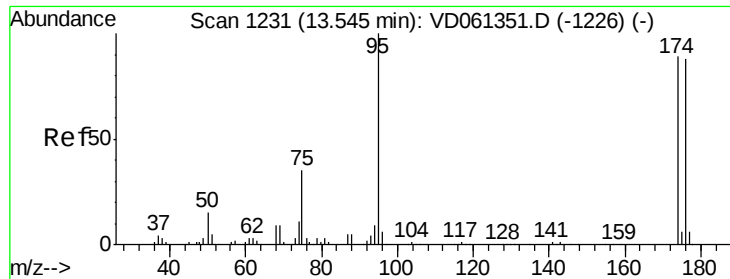
58 56.4 26.3 78.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

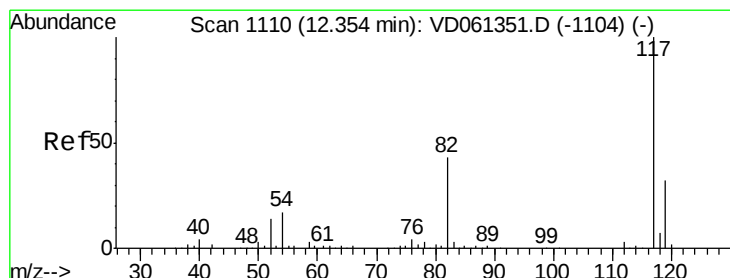
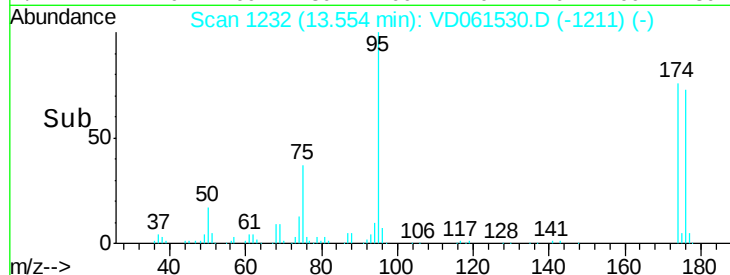
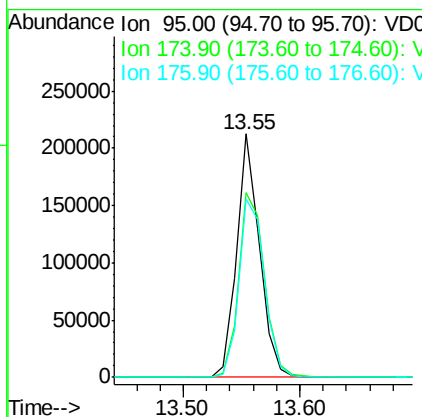
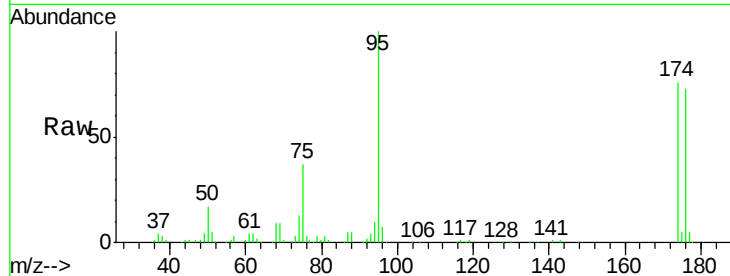




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD061530.D
Acq: 2 Apr 2019 22:34

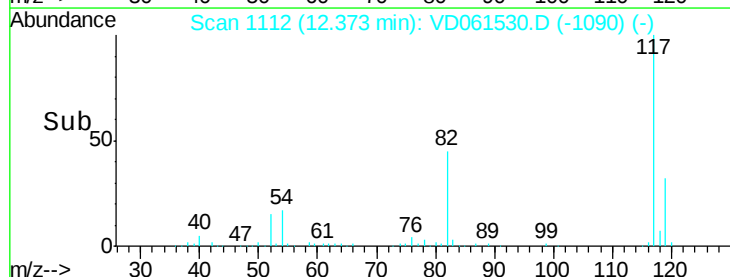
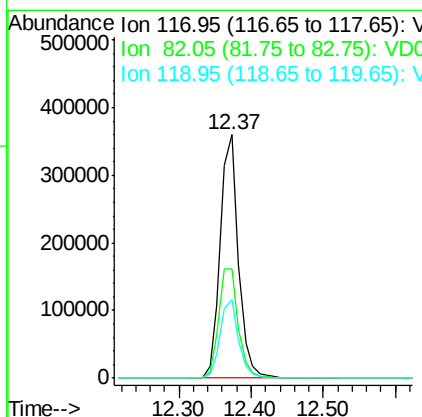
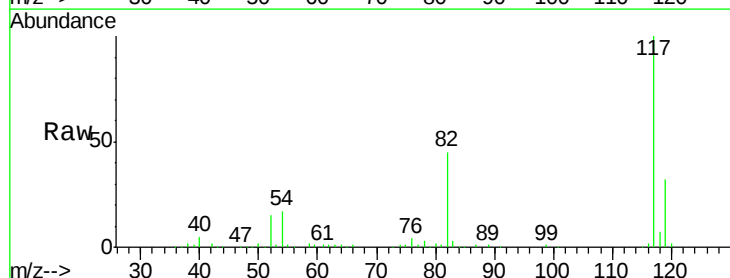
Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-001RE

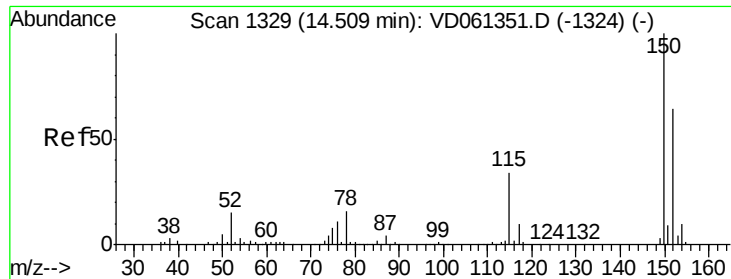
Tot Ion: 95 Resp: 287520
Ion Ratio Lower Upper
95 100
174 75.6 0.0 178.0
176 73.5 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD061530.D
Acq: 2 Apr 2019 22:34

Tgt Ion: 117 Resp: 620788
Ion Ratio Lower Upper
117 100
82 44.8 34.4 51.6
119 32.1 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-001RE

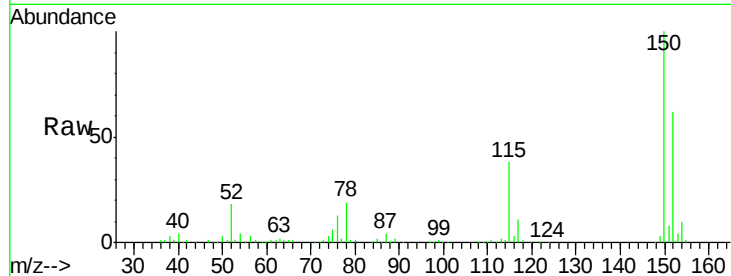
Tot Ion:152 Resp: 267946

Ion Ratio Lower Upper

152 100

115 60.4 26.9 80.6

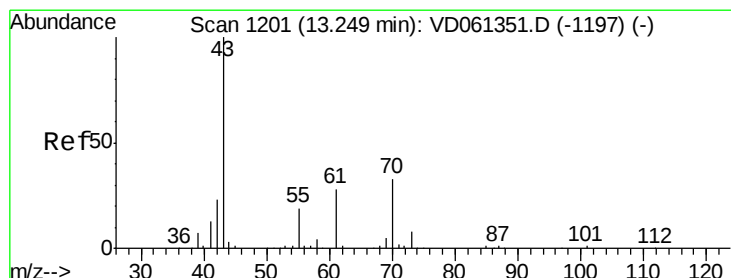
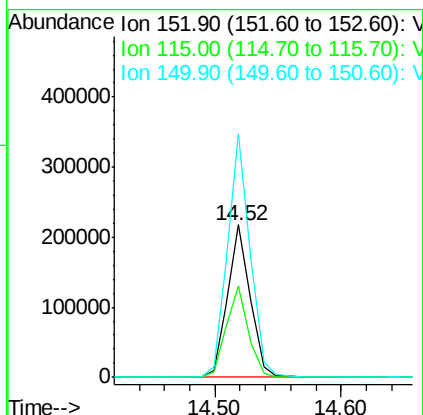
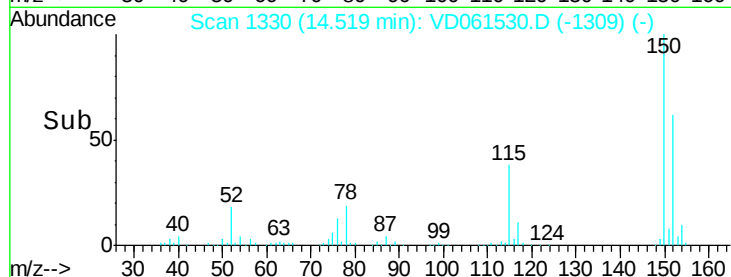
150 160.1 0.0 318.0



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



#74

N-ethyl acetate

Concen: 2.695 ug/l

RT: 13.20 min Scan# 1196

Delta R.T. -0.05 min

Lab File: VD061530.D

Acq: 2 Apr 2019 22:34

Tgt Ion: 43 Resp: 14001

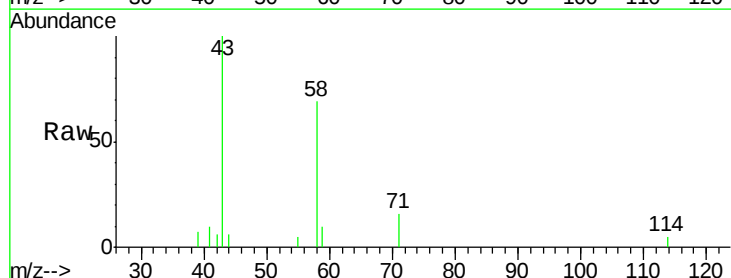
Ion Ratio Lower Upper

43 100

70 0.0 26.6 40.0#

55 5.0 15.4 23.2#

61 0.0 22.2 33.4#

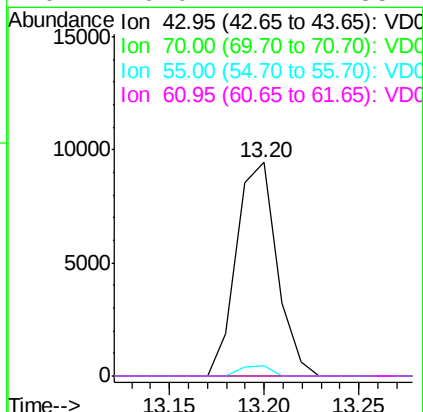
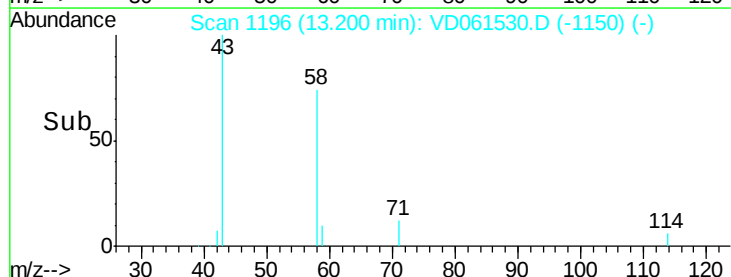


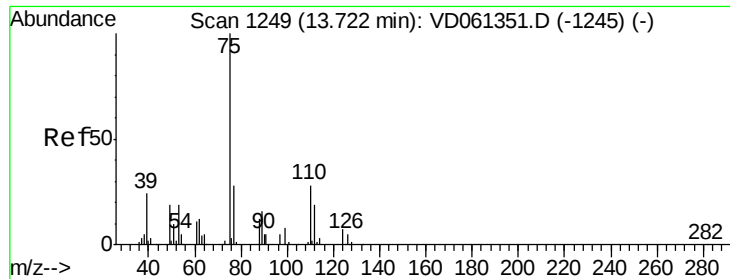
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

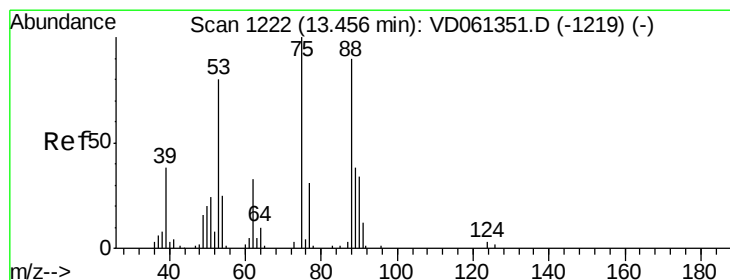
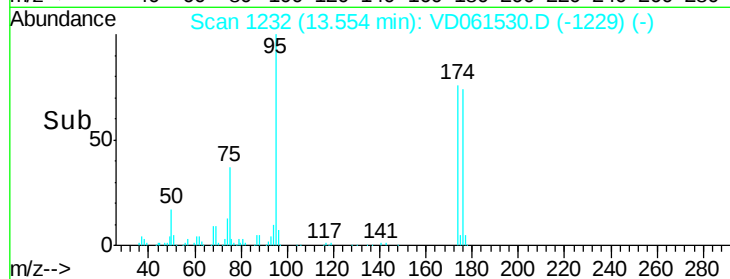
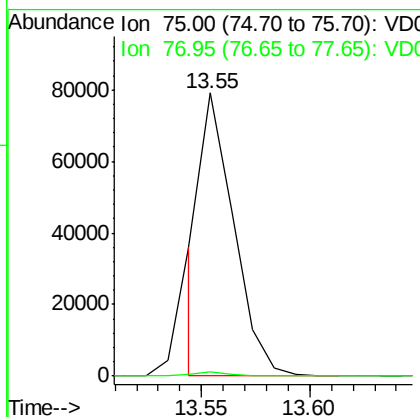
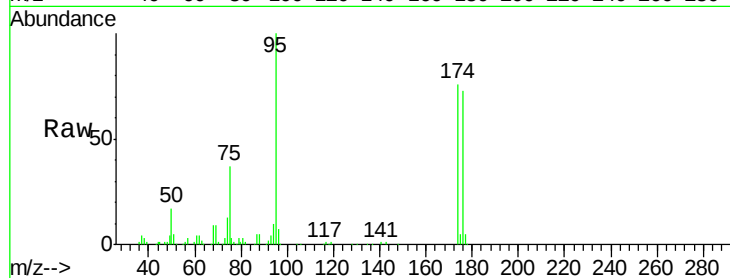




#76
 1,2,3-Trichloropropane
 Concen: 21.437 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.17 min
 Lab File: VD061530.D
 Acq: 2 Apr 2019 22:34

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-001RE

Tot Ion: 75 Resp: 82974
 Ion Ratio Lower Upper
 75 100
 77 1.4 16.2 48.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 90.477 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.10 min
 Lab File: VD061530.D
 Acq: 2 Apr 2019 22:34

Tgt Ion: 75 Resp: 106775
 Ion Ratio Lower Upper
 75 100
 53 0.0 63.8 95.8#
 89 0.0 30.5 45.7#

