

Data File : VD059861.D
Acq On : 21 Aug 2018 17:47
Operator : JC/SY
Sample : J4535-08
Misc : 5.02g/5ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-040

Quant Time: Aug 22 01:12:39 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 21 04:40:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.61	168	1099632	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.66	114	1570249	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.66	117	1257194	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.89	152	569053	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.98	65	434167	49.33	ug/l	0.01
Spiked Amount	50.000		Recovery	=	98.66%	
35) Dibromofluoromethane	5.51	113	570827	49.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.30%	
50) Toluene-d8	8.68	98	1486100	47.45	ug/l	0.01
Spiked Amount	50.000		Recovery	=	94.90%	
62) 4-Bromofluorobenzene	11.90	95	552579	45.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.96%	

Target Compounds

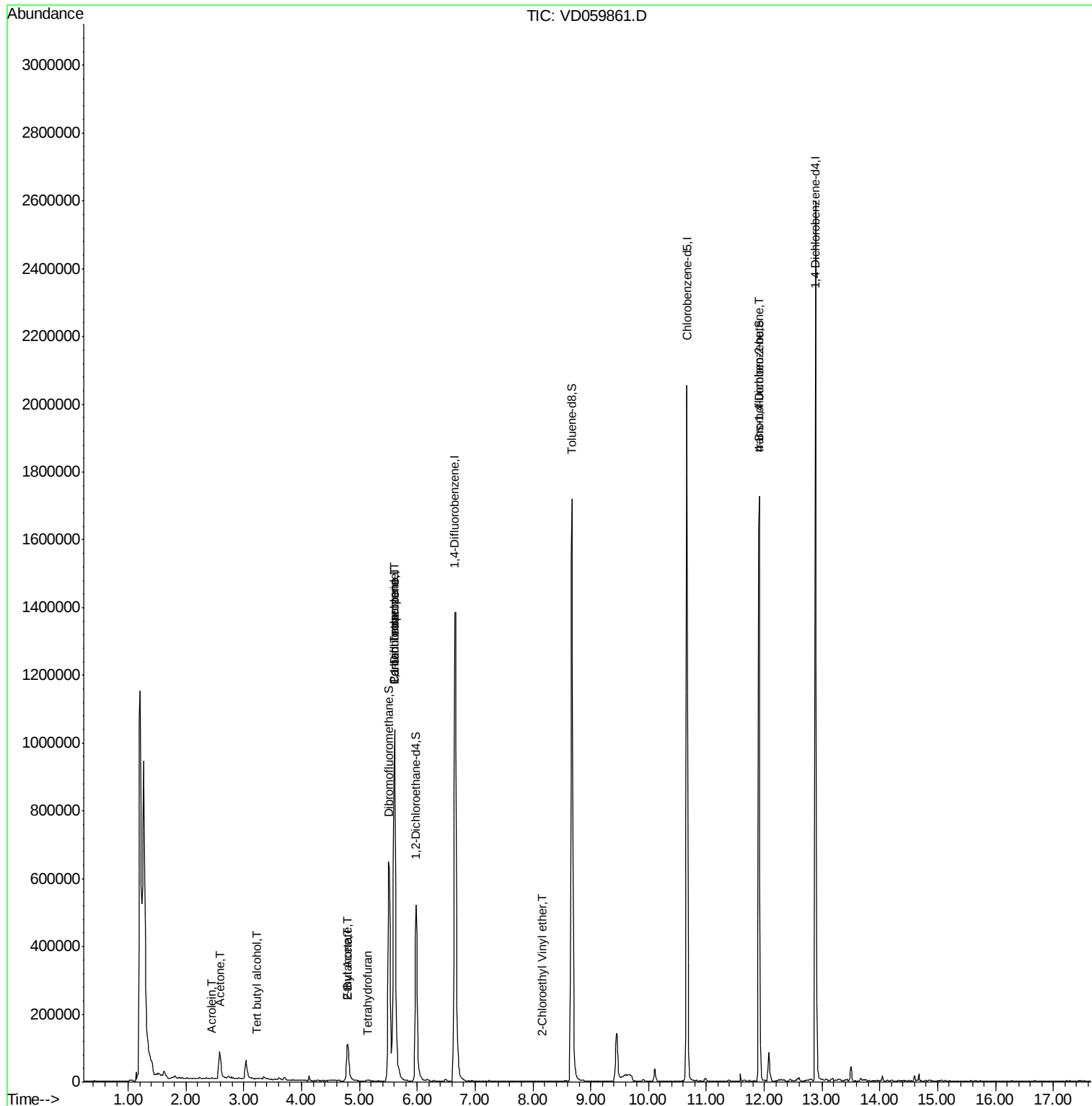
						Qvalue
11) Tert butyl alcohol	3.21	59	618	1.900	ug/l #	1
13) Acrolein	2.44	56	1292	4.934	ug/l #	17
16) Acetone	2.58	43	152129	103.135	ug/l	100
17) Carbon Disulfide	2.73	76	4728	Below Cal	#	76
18) Methyl Acetate	2.91	43	3190	Below Cal	#	65
20) Methylene Chloride	3.04	84	24495	Below Cal		84
25) 2-Butanone	4.80	43	90502	20.298	ug/l	94
29) Tetrahydrofuran	5.15	42	3282	1.454	ug/l #	42
31) Cyclohexane	5.61	56	23370	Below Cal	#	1
36) 1,1-Dichloropropene	5.61	75	77661	5.832	ug/l #	46
37) Ethyl Acetate	4.80	43	91626	9.282	ug/l #	78
38) Carbon Tetrachloride	5.61	117	88494	6.658	ug/l #	15
58) 2-Chloroethyl Vinyl ether	8.15	63	433	9.573	ug/l #	51
67) Ethyl Benzene	10.83	91	1993	Below Cal		99
80) 1,3,5-Trimethylbenzene	12.30	105	1170	Below Cal		89
81) trans-1,4-Dichloro-2-buten	11.90	75	218608	74.281	ug/l #	10
82) 4-Chlorotoluene	12.30	91	1171	Below Cal	#	48
89) n-Butylbenzene	13.17	91	1324	Below Cal	#	78
91) 1,2-Dichlorobenzene	13.17	146	525	Below Cal	#	68

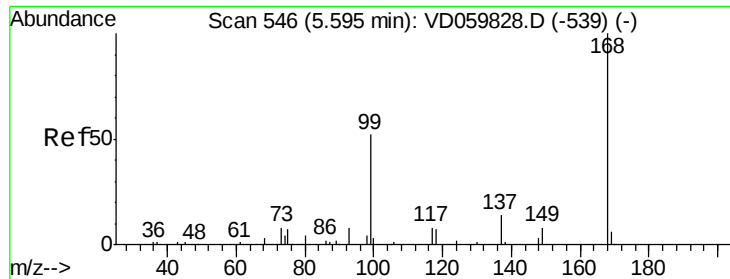
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VD059861.D
Acq On : 21 Aug 2018 17:47
Operator : JC/SY
Sample : J4535-08
Misc : 5.02g/5ml/MSVOA_D/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-040

Quant Time: Aug 22 01:12:39 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 21 04:40:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.01 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

Instrument :

MSVOA_D

ClientSampleId :

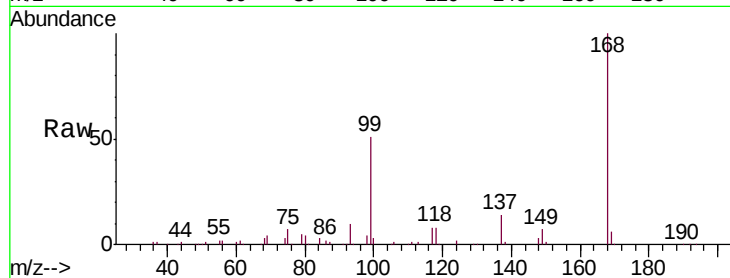
RA-081618-FL-040

Tgt Ion:168 Resp: 1099632

Ion Ratio Lower Upper

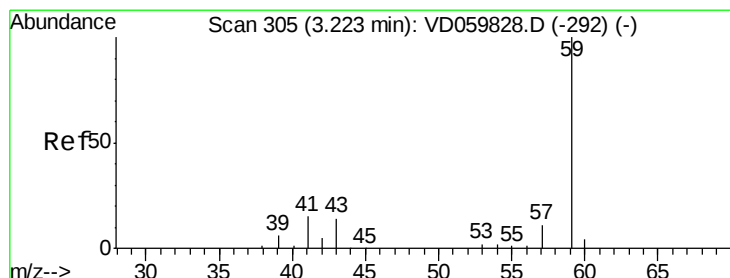
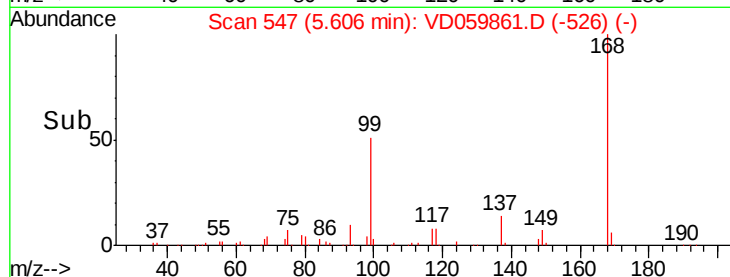
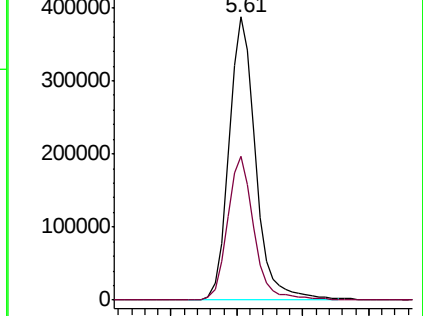
168 100

99 50.6 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.900 ug/l

RT: 3.21 min Scan# 304

Delta R.T. -0.01 min

Lab File: VD059861.D

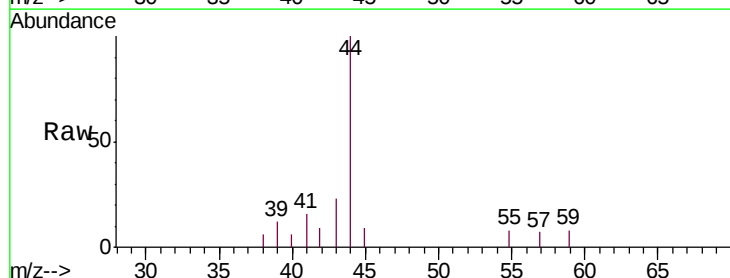
Acq: 21 Aug 2018 17:47

Tgt Ion: 59 Resp: 618

Ion Ratio Lower Upper

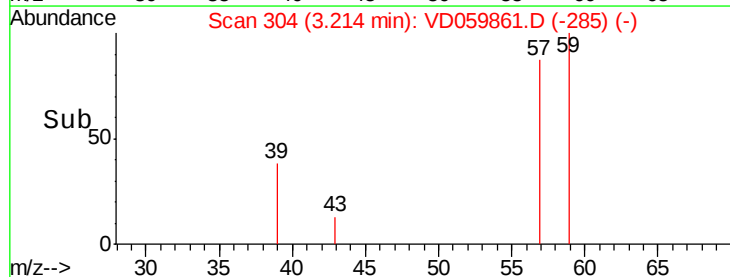
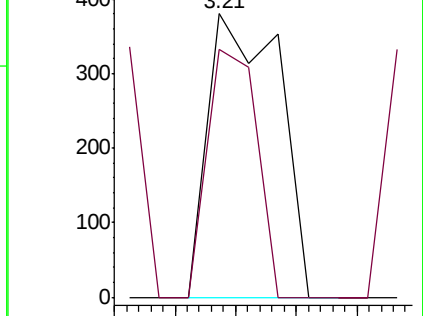
59 100

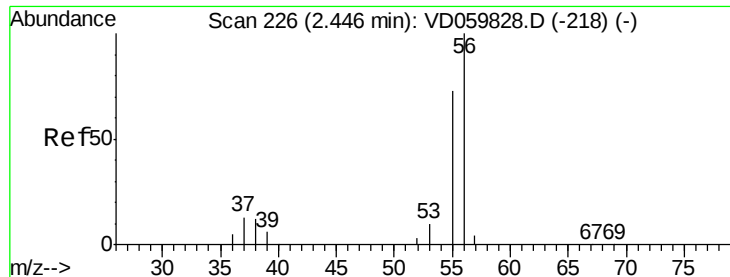
57 87.4 10.3 15.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 4.934 ug/l

RT: 2.44 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

Instrument :

MSVOA_D

ClientSampleId :

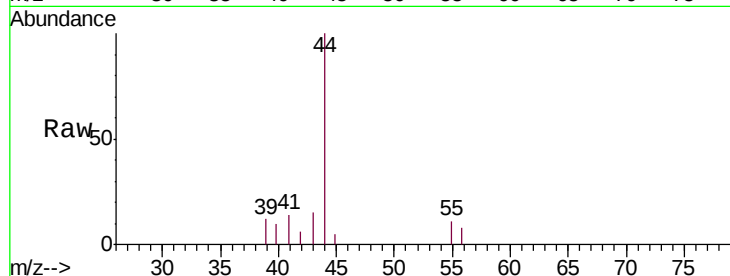
RA-081618-FL-040

Tgt Ion: 56 Resp: 1292

Ion Ratio Lower Upper

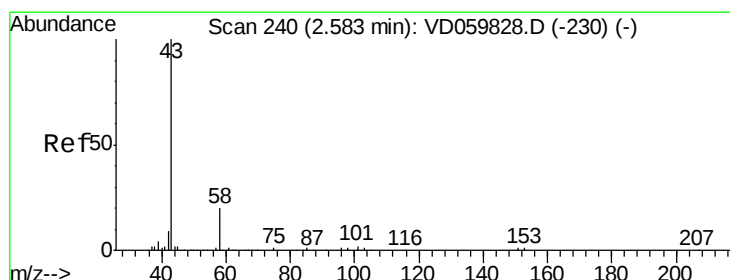
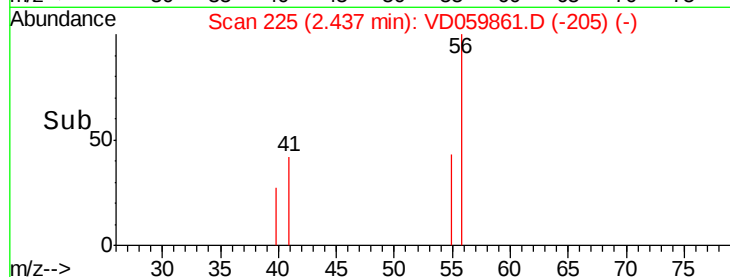
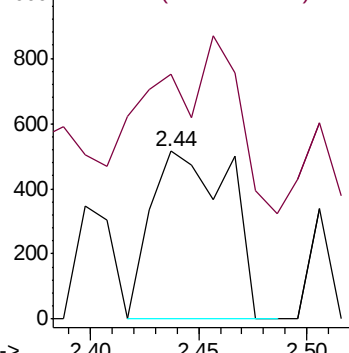
56 100

55 146.2 60.4 90.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 103.135 ug/l

RT: 2.58 min Scan# 240

Delta R.T. 0.00 min

Lab File: VD059861.D

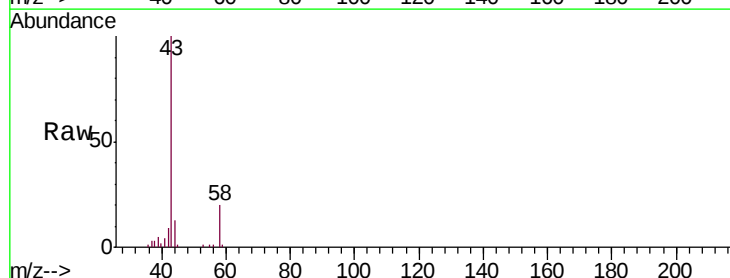
Acq: 21 Aug 2018 17:47

Tgt Ion: 43 Resp: 152129

Ion Ratio Lower Upper

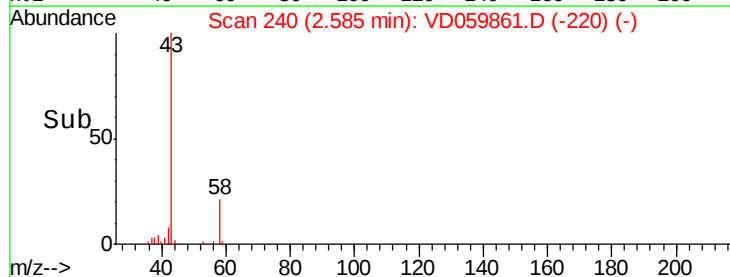
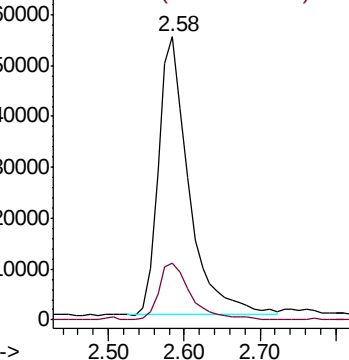
43 100

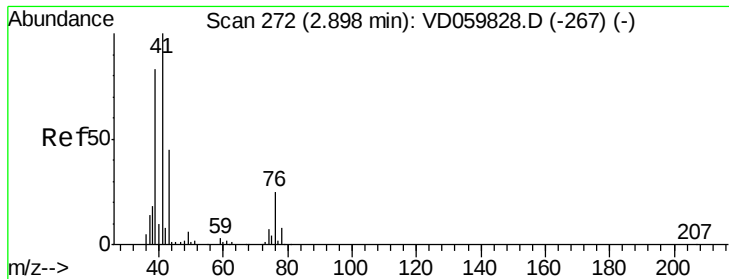
58 20.3 16.2 24.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

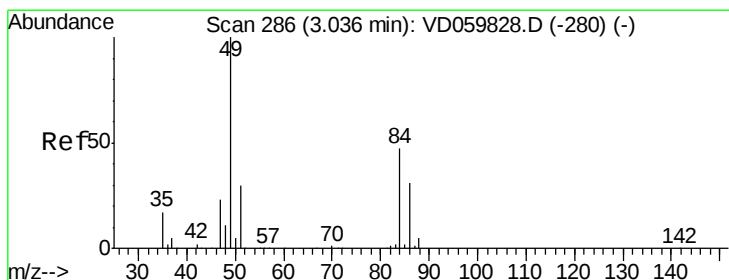
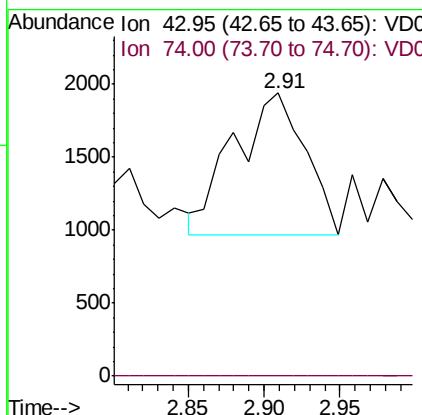
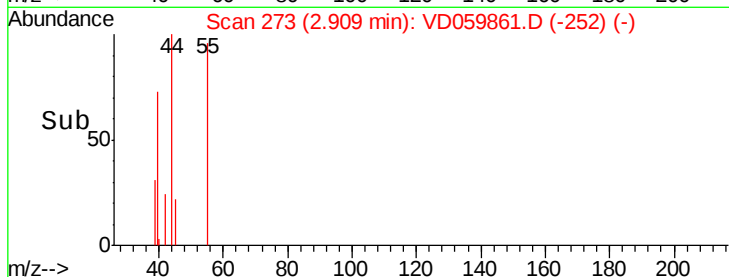
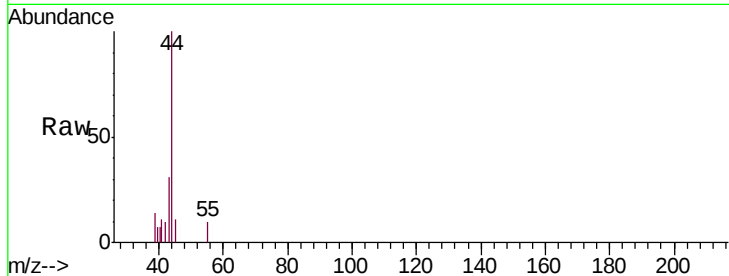




#18
Methyl Acetate
Concen: Below Cal
RT: 2.91 min Scan# 273
Delta R.T. 0.01 min
Lab File: VD059861.D
Acq: 21 Aug 2018 17:47

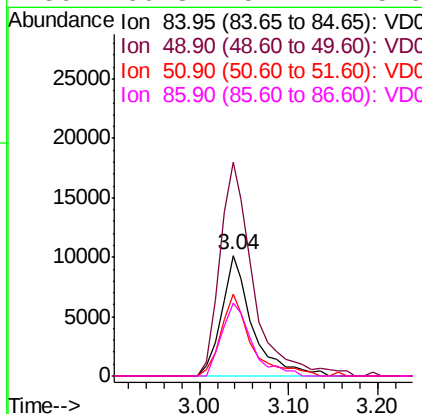
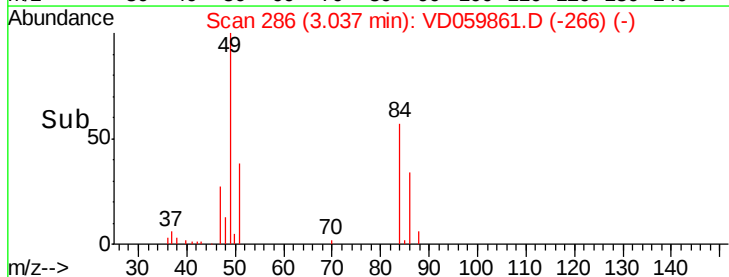
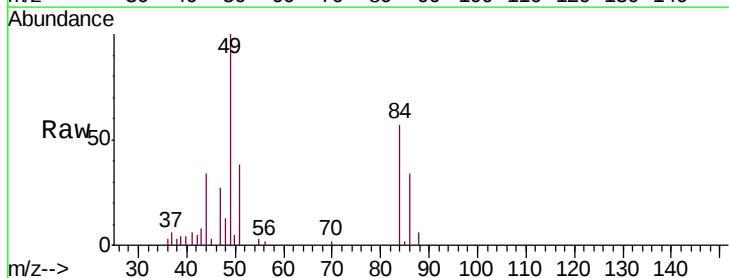
Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-040

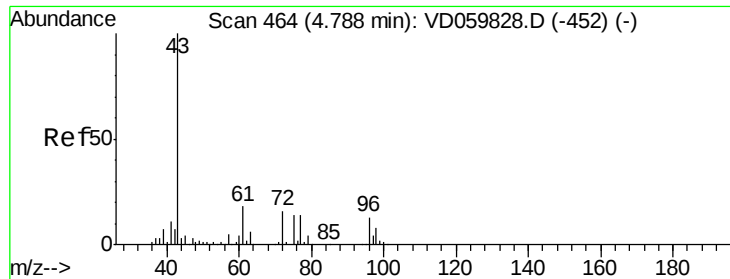
Tgt Ion: 43 Resp: 3190
Ion Ratio Lower Upper
43 100
74 0.0 11.4 17.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.04 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD059861.D
Acq: 21 Aug 2018 17:47

Tgt Ion: 84 Resp: 24495
Ion Ratio Lower Upper
84 100
49 177.0 170.4 255.6
51 68.1 51.4 77.0
86 60.3 52.4 78.6





#25

2-Butanone

Concen: 20.298 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.01 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

Instrument :

MSVOA_D

ClientSampleId :

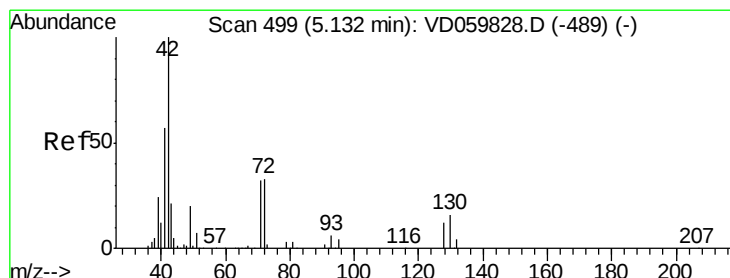
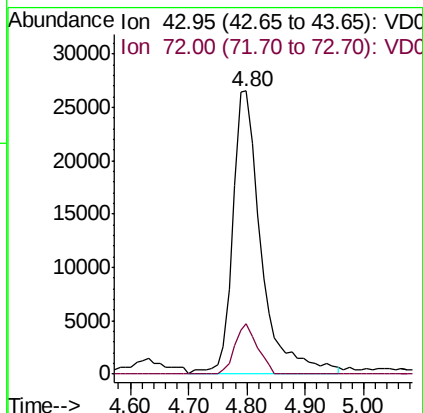
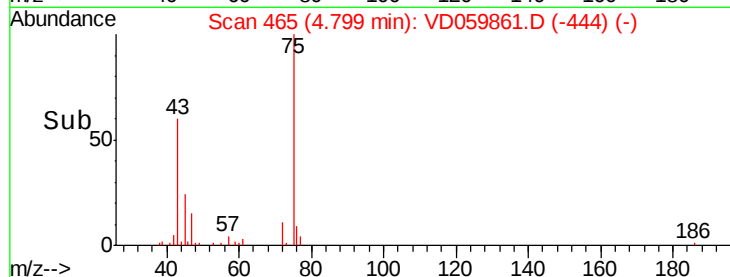
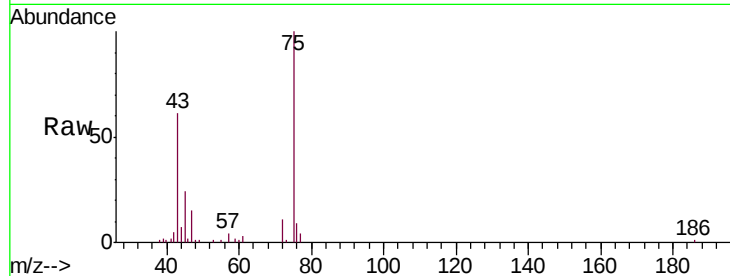
RA-081618-FL-040

Tgt Ion: 43 Resp: 90502

Ion Ratio Lower Upper

43 100

72 18.0 12.4 18.6



#29

Tetrahydrofuran

Concen: 1.454 ug/l

RT: 5.15 min Scan# 501

Delta R.T. 0.02 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

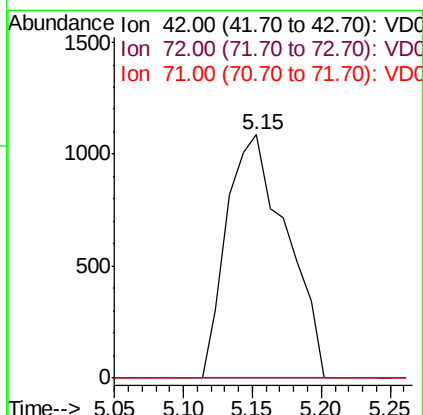
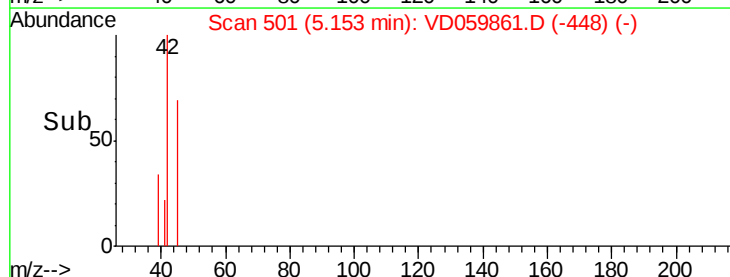
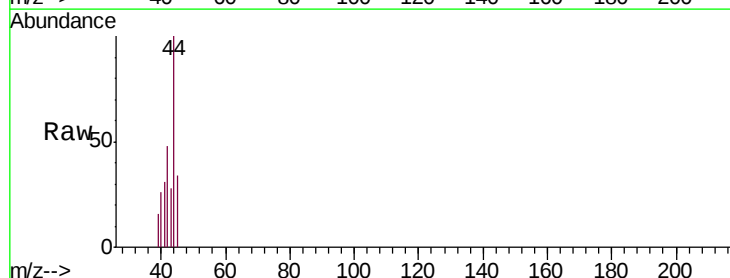
Tgt Ion: 42 Resp: 3282

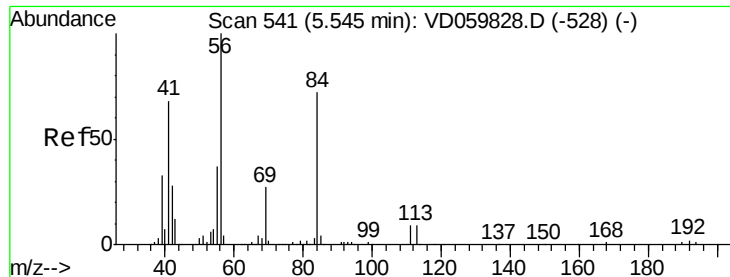
Ion Ratio Lower Upper

42 100

72 0.0 25.8 38.6#

71 0.0 25.7 38.5#

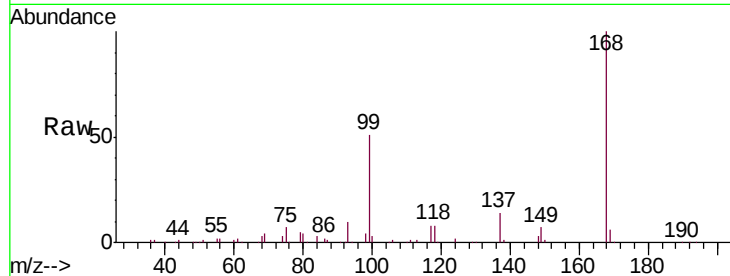




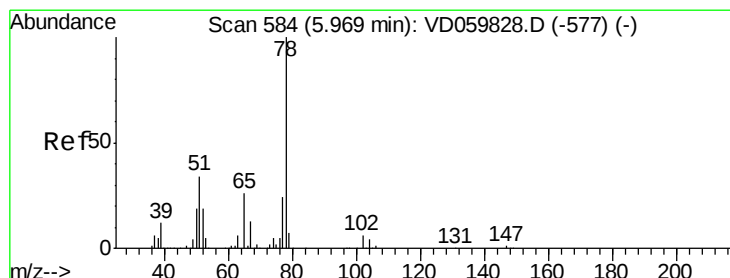
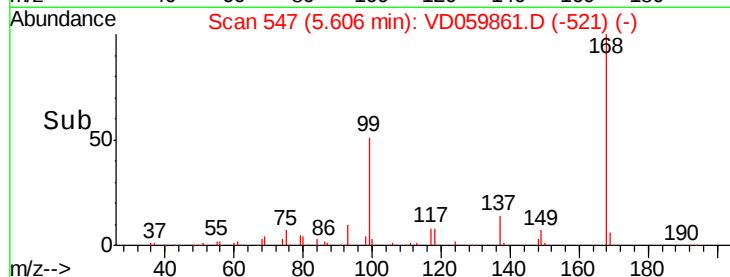
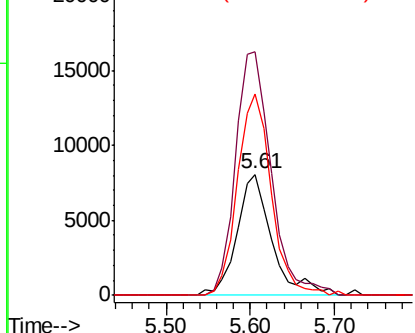
#31
Cyclohexane
Concen: Below Cal
RT: 5.61 min Scan# 547
Delta R.T. 0.06 min
Lab File: VD059861.D
Acq: 21 Aug 2018 17:47

Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-040

Tgt Ion: 56 Resp: 23370
Ion Ratio Lower Upper
56 100
69 200.9 21.7 32.5#
84 166.1 57.8 86.6#

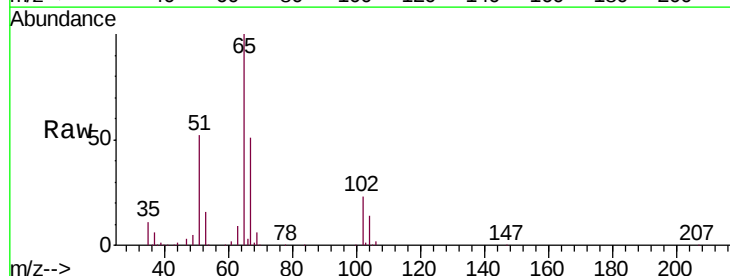


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

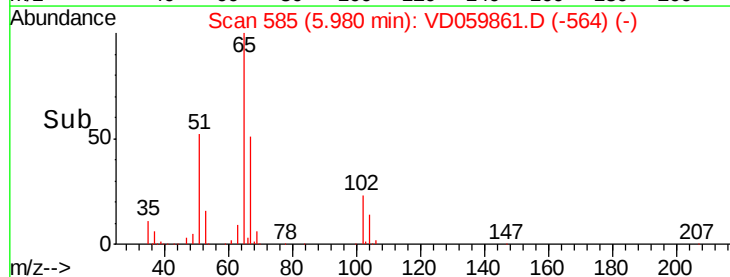
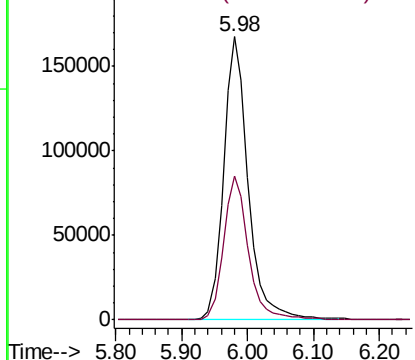


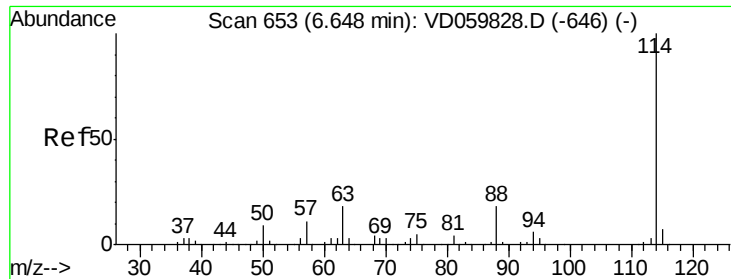
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 5.98 min Scan# 585
Delta R.T. 0.01 min
Lab File: VD059861.D
Acq: 21 Aug 2018 17:47

Tgt Ion: 65 Resp: 434167
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.4



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: 6.66 min Scan# 654

Delta R.T. 0.01 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-040

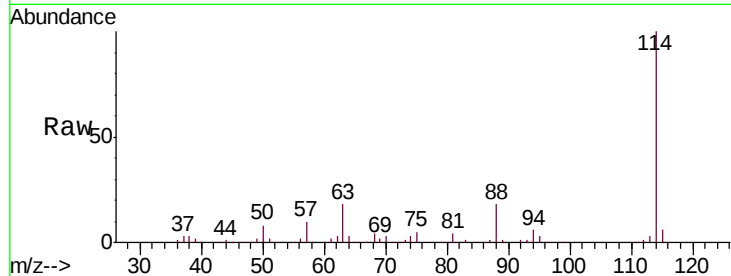
Tgt Ion:114 Resp: 1570249

Ion Ratio Lower Upper

114 100

63 17.8 0.0 37.0

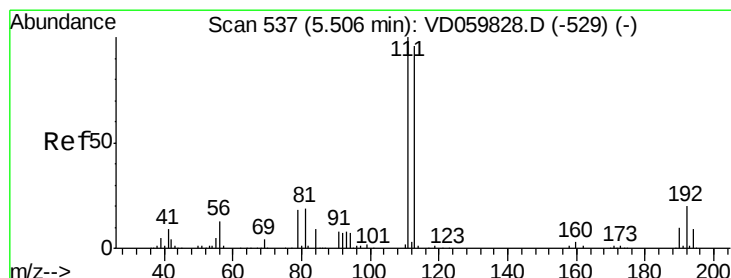
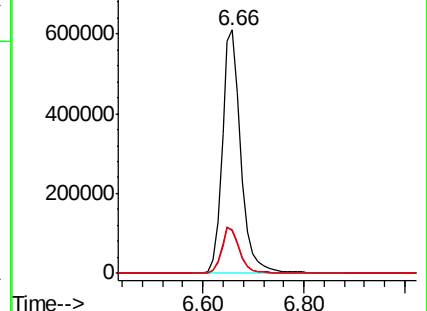
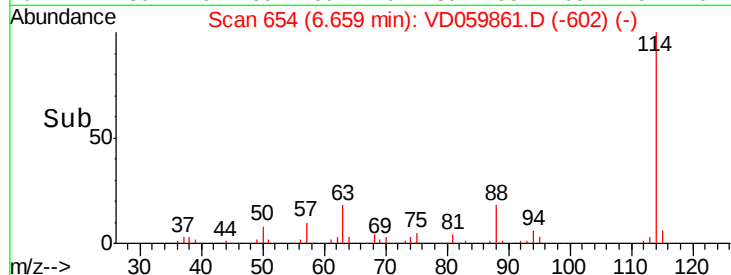
88 17.9 0.0 37.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.51 min Scan# 537

Delta R.T. 0.00 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

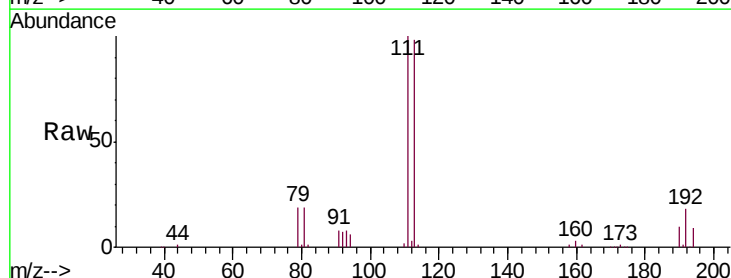
Tgt Ion:113 Resp: 570827

Ion Ratio Lower Upper

113 100

111 102.5 83.3 124.9

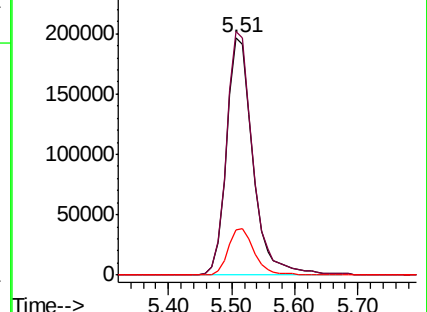
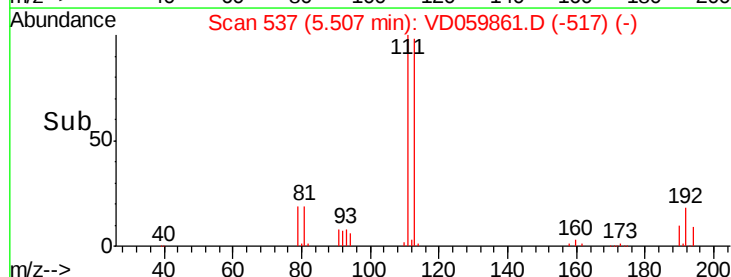
192 18.9 16.8 25.2

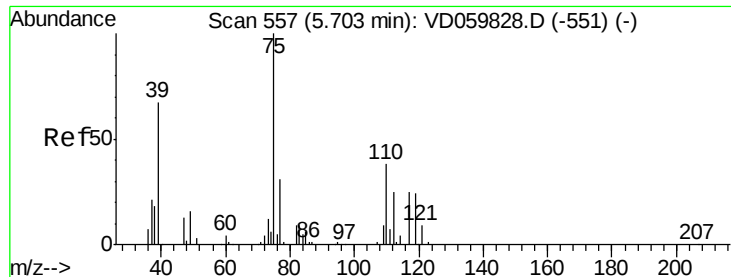


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.832 ug/l

RT: 5.61 min Scan# 547

Delta R.T. -0.10 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-040

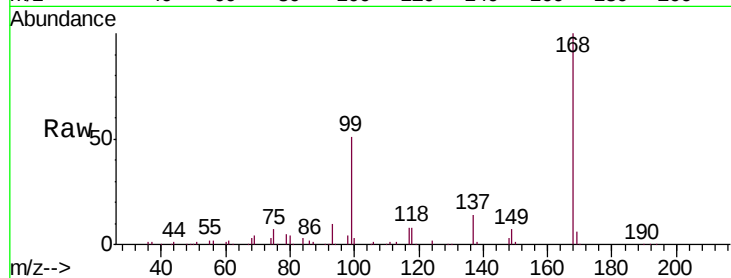
Tgt Ion: 75 Resp: 77661

Ion Ratio Lower Upper

75 100

110 6.9 18.8 56.4#

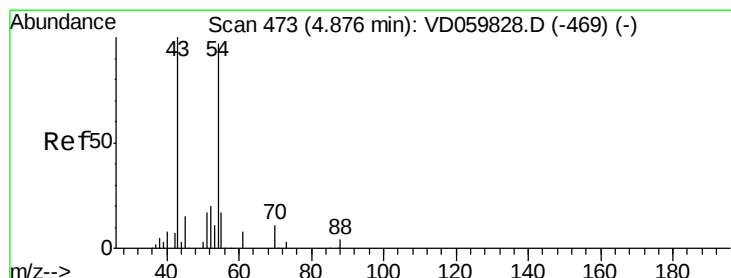
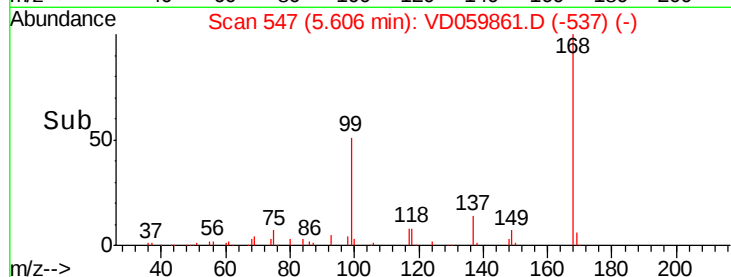
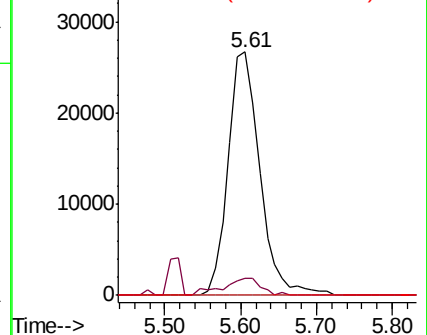
77 0.0 24.9 37.3#



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: 9.282 ug/l

RT: 4.80 min Scan# 465

Delta R.T. -0.08 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

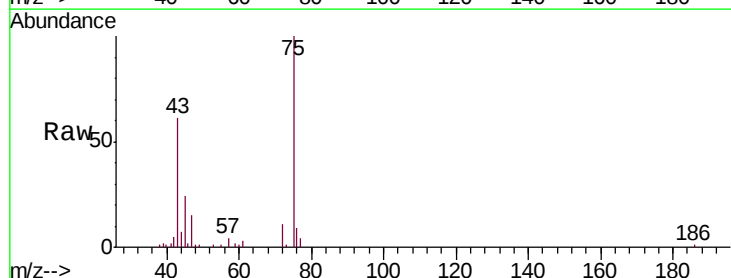
Tgt Ion: 43 Resp: 91626

Ion Ratio Lower Upper

43 100

61 4.4 10.4 15.6#

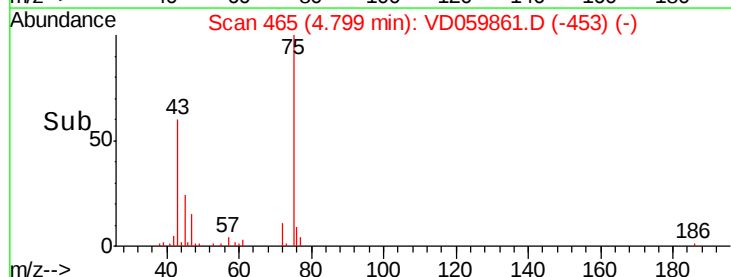
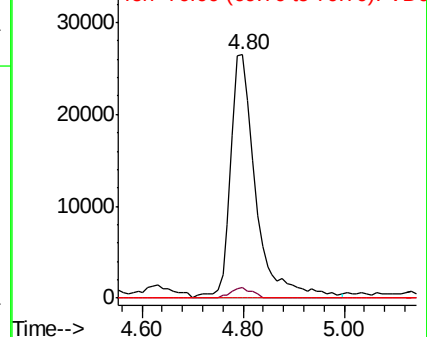
70 0.0 6.2 9.2#

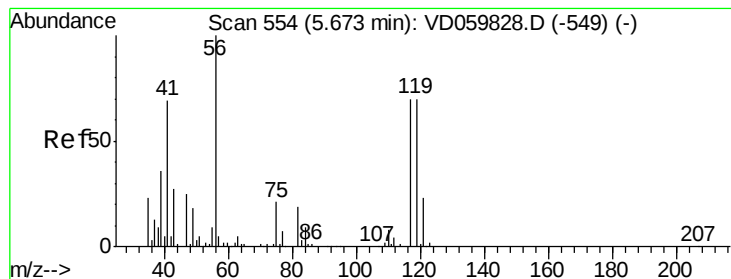


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 6.658 ug/l

RT: 5.61 min Scan# 547

Delta R.T. -0.07 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-040

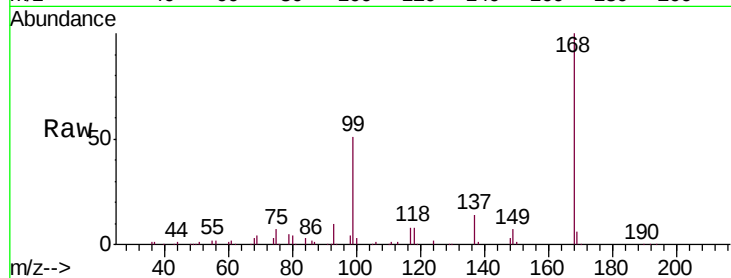
Tgt Ion:117 Resp: 88494

Ion Ratio Lower Upper

117 100

119 4.3 77.0 115.4#

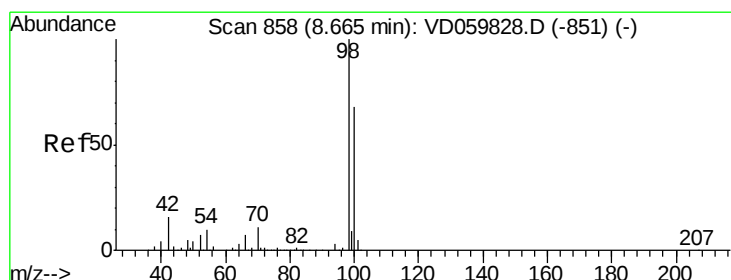
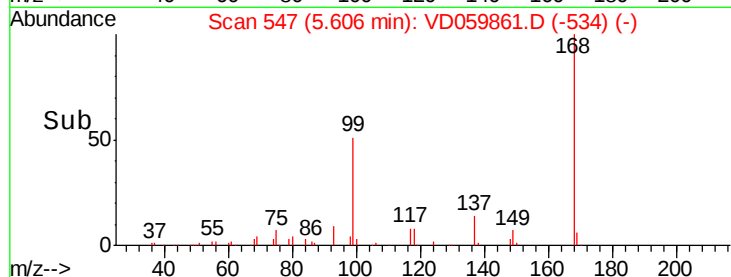
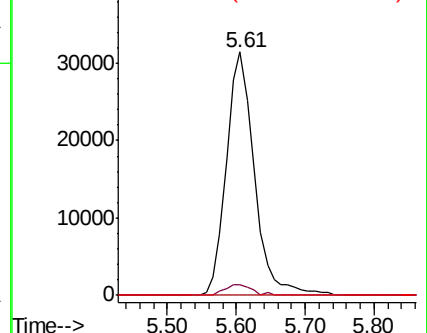
121 0.0 24.7 37.1#



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: 8.68 min Scan# 859

Delta R.T. 0.01 min

Lab File: VD059861.D

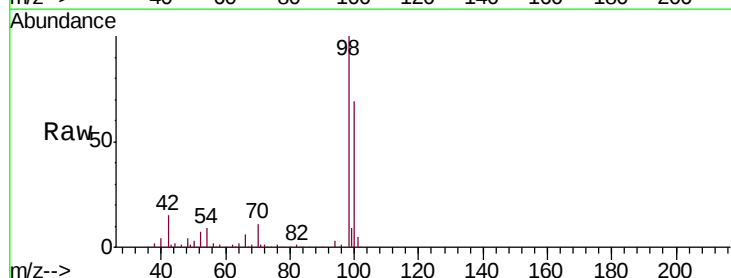
Acq: 21 Aug 2018 17:47

Tgt Ion: 98 Resp: 1486100

Ion Ratio Lower Upper

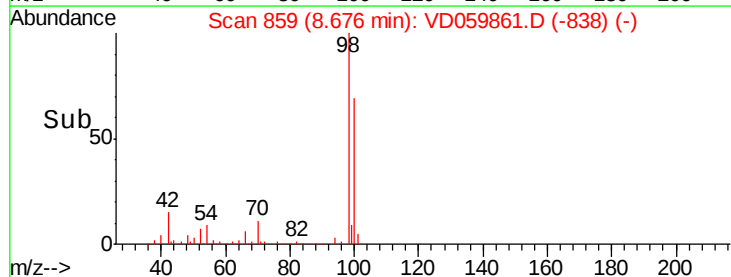
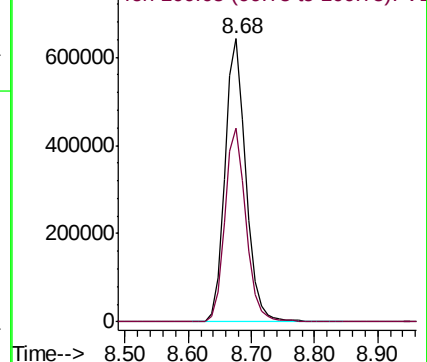
98 100

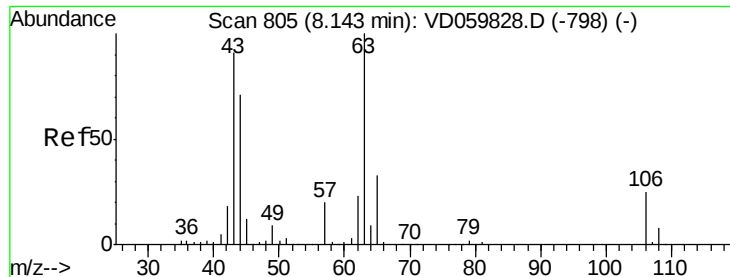
100 68.5 55.0 82.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

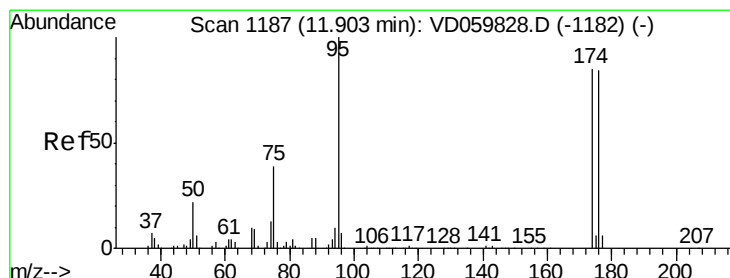
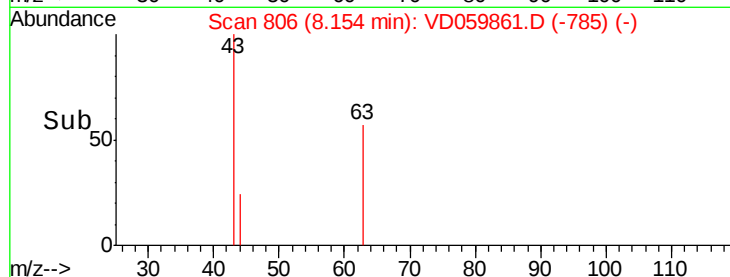
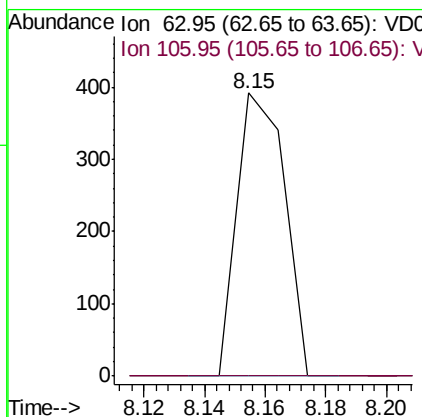
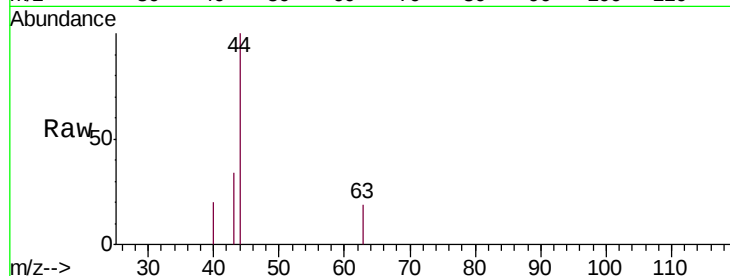




#58
 2-Chloroethyl Vinyl ether
 Concen: 9.573 ug/l
 RT: 8.15 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VD059861.D
 Acq: 21 Aug 2018 17:47

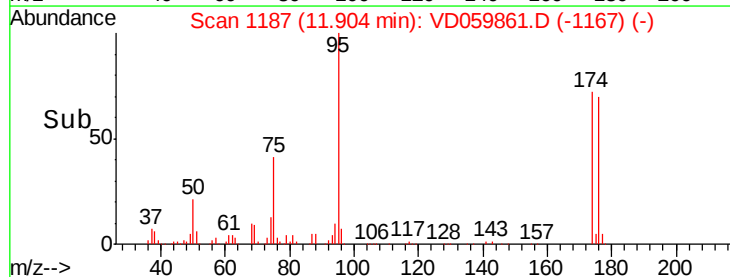
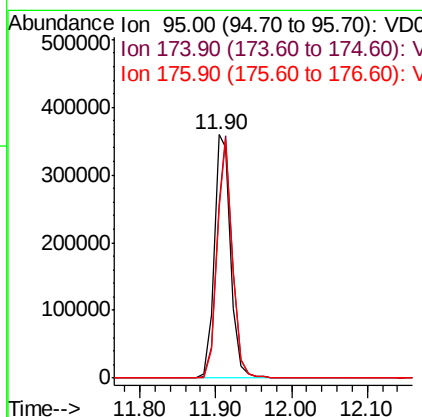
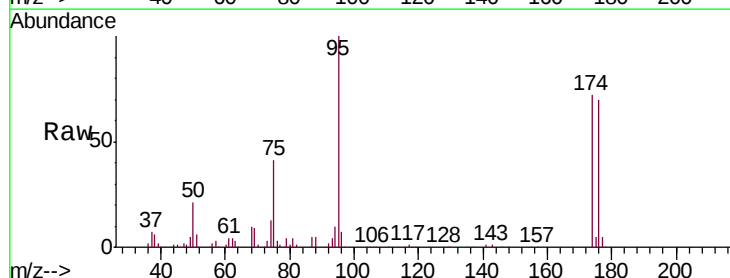
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081618-FL-040

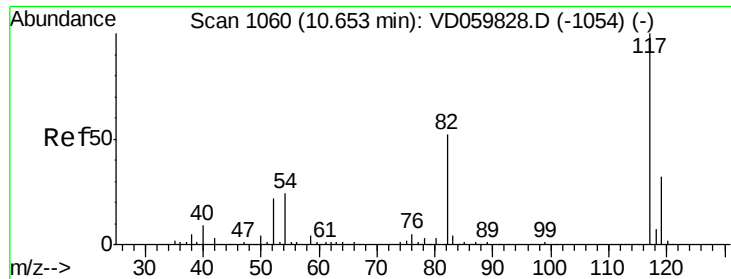
Tgt Ion: 63 Resp: 433
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.6 29.4#



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 11.90 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VD059861.D
 Acq: 21 Aug 2018 17:47

Tgt Ion: 95 Resp: 552579
 Ion Ratio Lower Upper
 95 100
 174 71.8 0.0 169.2
 176 70.0 0.0 168.0

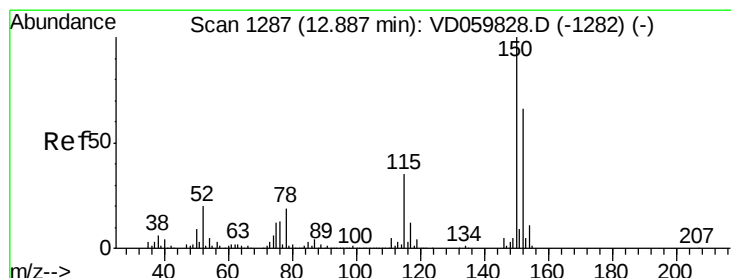
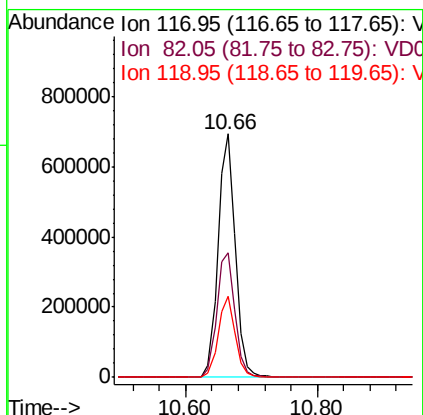
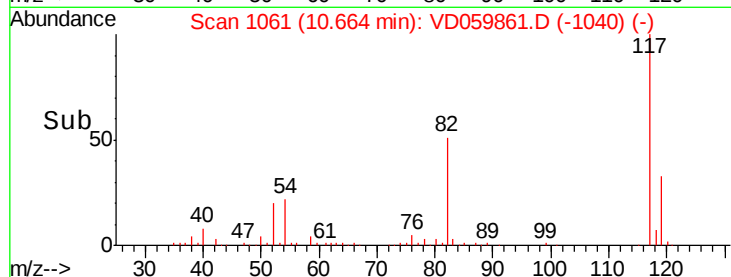
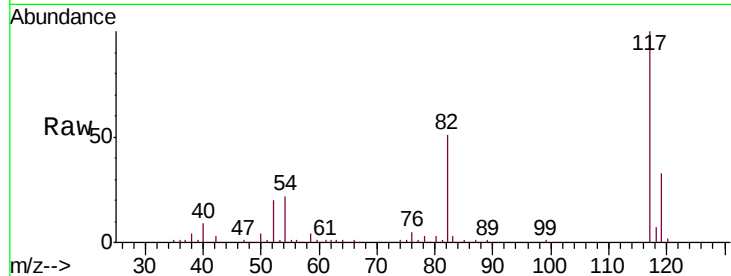




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.66 min Scan# 1061
Delta R.T. 0.01 min
Lab File: VD059861.D
Acq: 21 Aug 2018 17:47

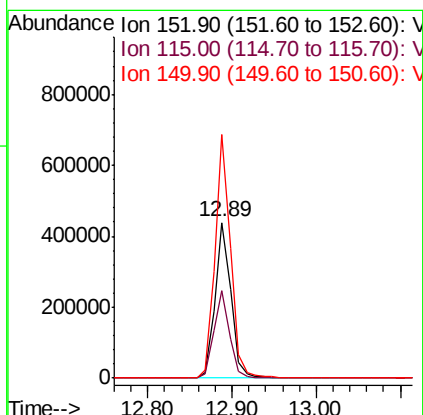
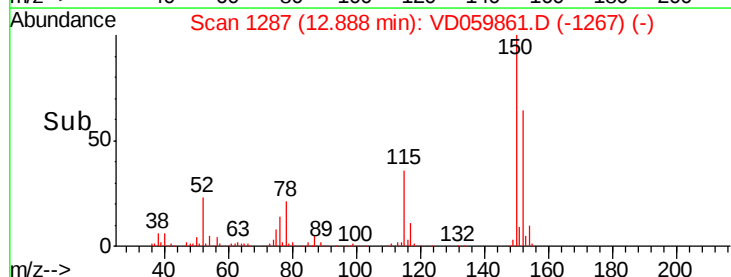
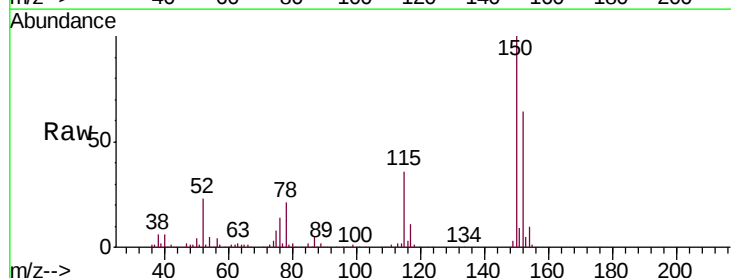
Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-040

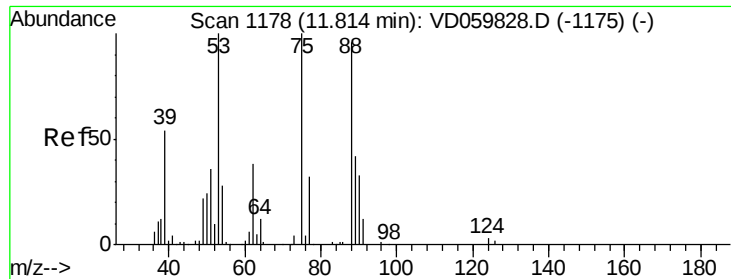
Tgt Ion:117 Resp: 1257194
Ion Ratio Lower Upper
117 100
82 51.4 41.6 62.4
119 33.1 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.89 min Scan# 1287
Delta R.T. 0.00 min
Lab File: VD059861.D
Acq: 21 Aug 2018 17:47

Tgt Ion:152 Resp: 569053
Ion Ratio Lower Upper
152 100
115 55.9 26.9 80.6
150 156.3 0.0 306.8





#81

trans-1,4-Dichloro-2-butene

Concen: 74.281 ug/l

RT: 11.90 min Scan# 1187

Delta R.T. 0.09 min

Lab File: VD059861.D

Acq: 21 Aug 2018 17:47

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-040

Tgt Ion: 75 Resp: 218608

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

89 0.0 33.9 50.9#

