

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082018\
 Data File : VD059843.D
 Acq On : 20 Aug 2018 21:04
 Operator : JC/SY
 Sample : J4511-03RE
 Misc : 5.03g/5ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081418-ESW-15NSC-025

Quant Time: Aug 21 05:12:58 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	933709	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.66	114	1296762	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.67	117	892083	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.90	152	300046	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.98	65	385619	51.60	ug/l	0.01
Spiked Amount 50.000			Recovery	=	103.20%	
35) Dibromofluoromethane	5.51	113	504435	52.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.18%	
50) Toluene-d8	8.68	98	1241298	47.99	ug/l	0.01
Spiked Amount 50.000			Recovery	=	95.98%	
62) 4-Bromofluorobenzene	11.92	95	387309	39.02	ug/l	0.02
Spiked Amount 50.000			Recovery	=	78.04%	

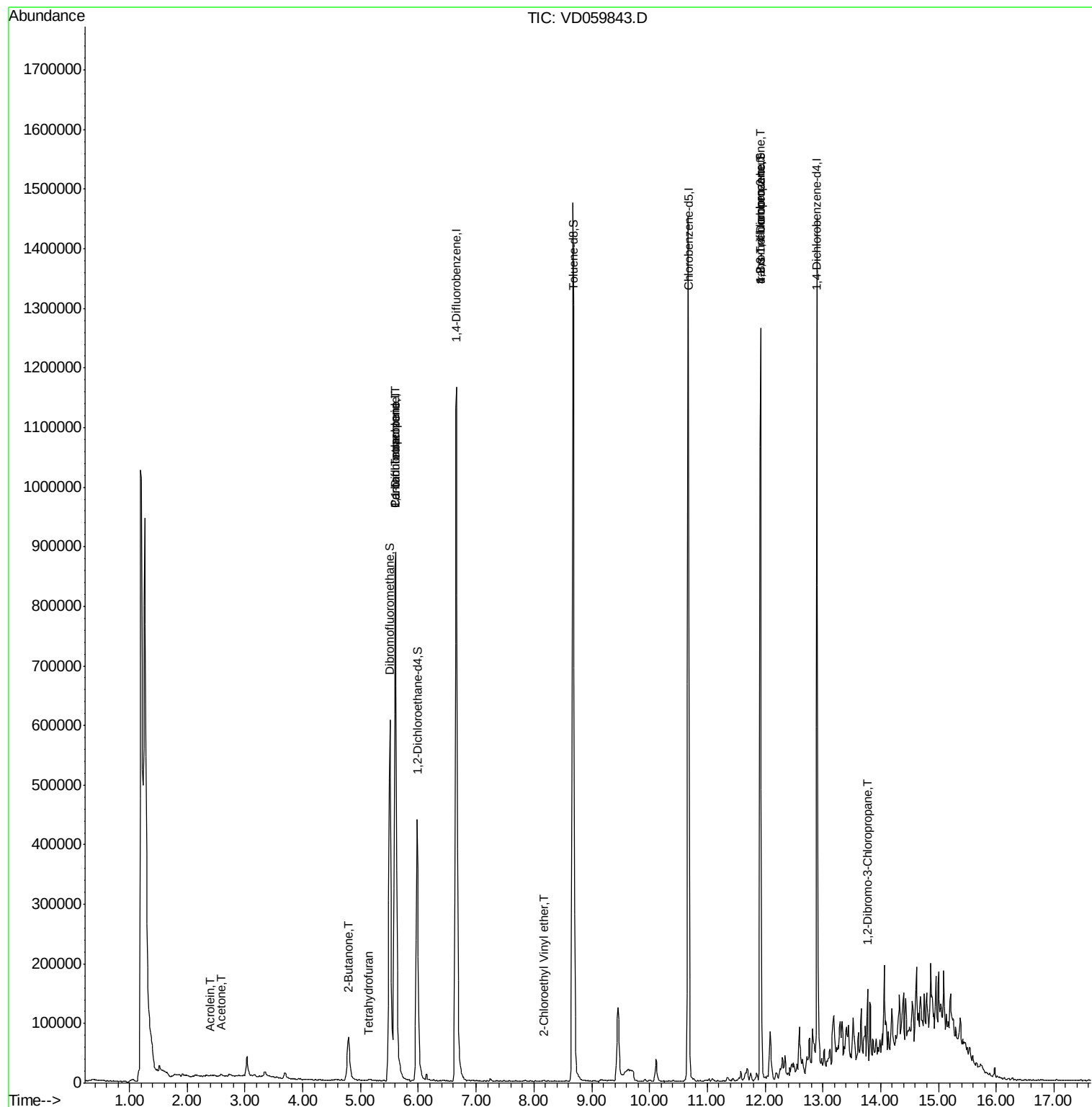
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.38	56	1541	6.496	ug/l #	75
16) Acetone	2.58	43	4469	3.568	ug/l	93
17) Carbon Disulfide	2.72	76	3465	Below Cal	#	76
18) Methyl Acetate	2.89	43	1552	Below Cal	#	65
20) Methylene Chloride	3.04	84	13989	Below Cal		91
25) 2-Butanone	4.80	43	7402	1.955	ug/l #	63
29) Tetrahydrofuran	5.13	42	3000	1.565	ug/l #	48
31) Cyclohexane	5.60	56	20516	Below Cal	#	1
36) 1,1-Dichloropropene	5.60	75	65578	5.963	ug/l #	46
38) Carbon Tetrachloride	5.61	117	76058	6.929	ug/l #	16
58) 2-Chloroethyl Vinyl ether	8.16	63	180	9.539	ug/l #	51
67) Ethyl Benzene	10.84	91	926	Below Cal	#	43
76) 1,2,3-Trichloropropane	11.92	75	137959	27.792	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.31	105	5187	Below Cal		86
81) trans-1,4-Dichloro-2-buten	11.92	75	153900	99.178	ug/l #	10
82) 4-Chlorotoluene	12.32	91	2389	Below Cal		85
89) n-Butylbenzene	13.17	91	7018	Below Cal	#	1
91) 1,2-Dichlorobenzene	13.18	146	303	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	13.77	75	1781	2.482	ug/l #	1

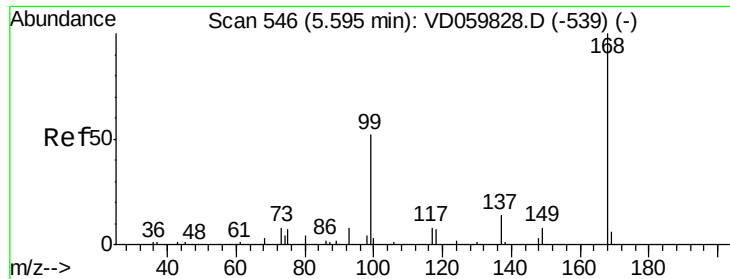
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.01 min

Lab File: VD059843.D

Acq: 20 Aug 2018 21:04

Instrument :

MSVOA_D

ClientSampleId :

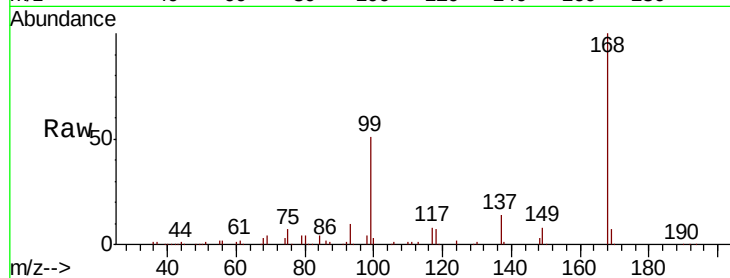
RA-081418-ESW-15NSC-025

Tgt Ion:168 Resp: 933709

Ion Ratio Lower Upper

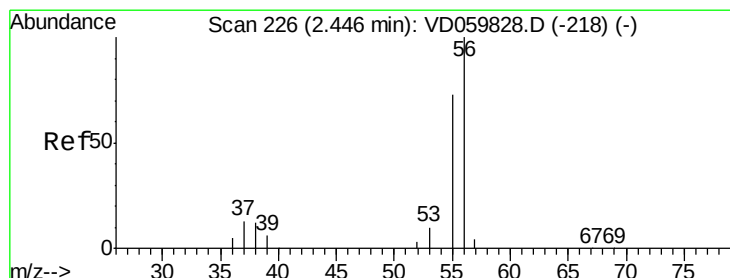
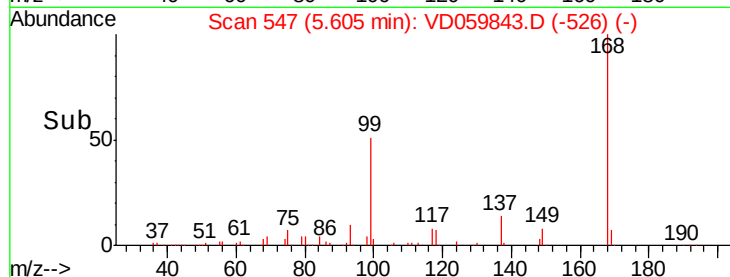
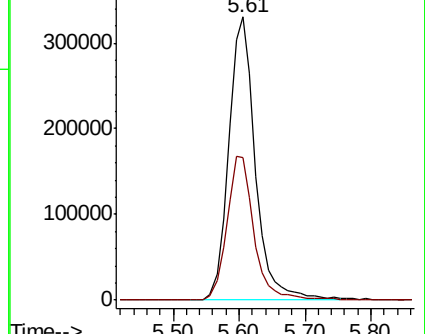
168 100

99 50.5 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#13

Acrolein

Concen: 6.496 ug/l

RT: 2.38 min Scan# 219

Delta R.T. -0.07 min

Lab File: VD059843.D

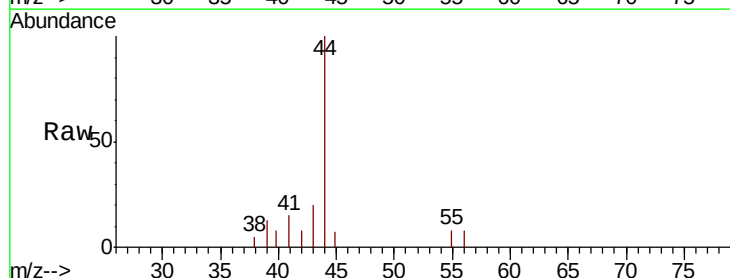
Acq: 20 Aug 2018 21:04

Tgt Ion: 56 Resp: 1541

Ion Ratio Lower Upper

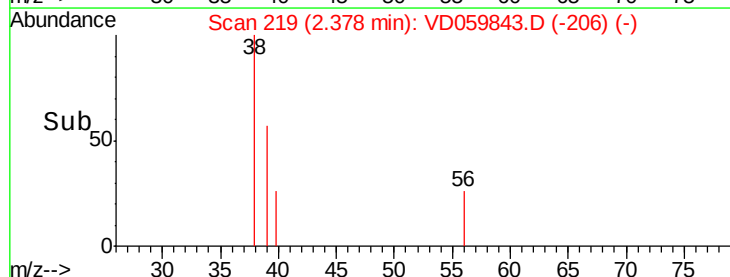
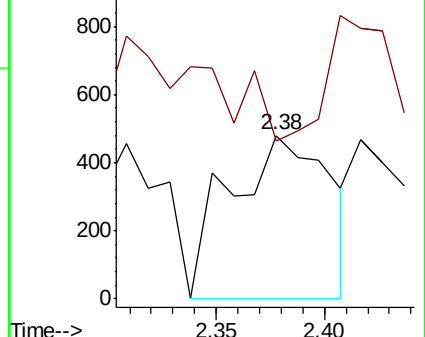
56 100

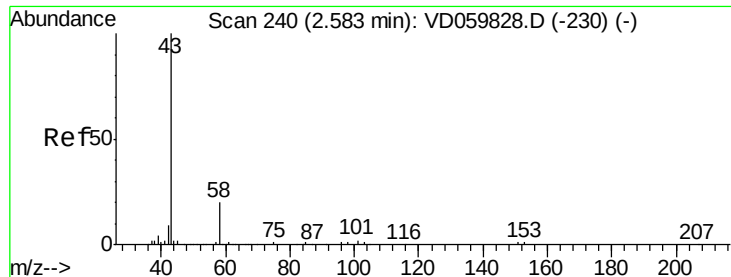
55 96.9 60.4 90.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 3.568 ug/l

RT: 2.58 min Scan# 240

Delta R.T. 0.00 min

Lab File: VD059843.D

Acq: 20 Aug 2018 21:04

Instrument :

MSVOA_D

ClientSampleId :

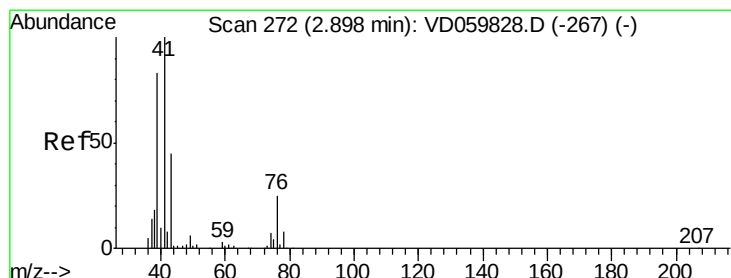
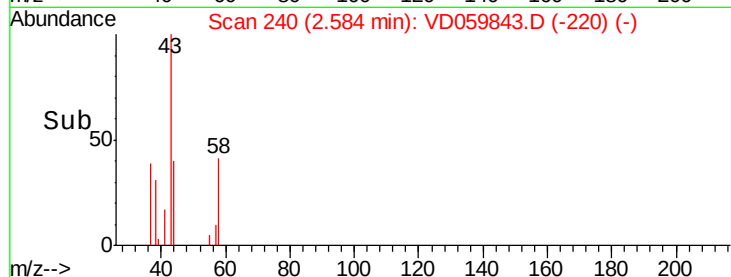
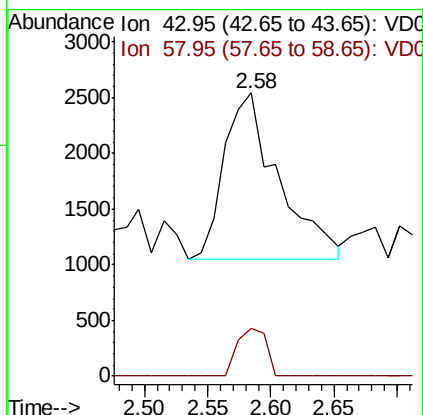
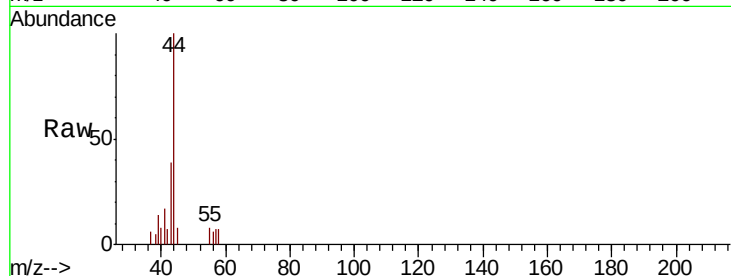
RA-081418-ESW-15NSC-025

Tgt Ion: 43 Resp: 4469

Ion Ratio Lower Upper

43 100

58 16.9 16.2 24.2



#18

Methyl Acetate

Concen: Below Cal

RT: 2.89 min Scan# 271

Delta R.T. -0.01 min

Lab File: VD059843.D

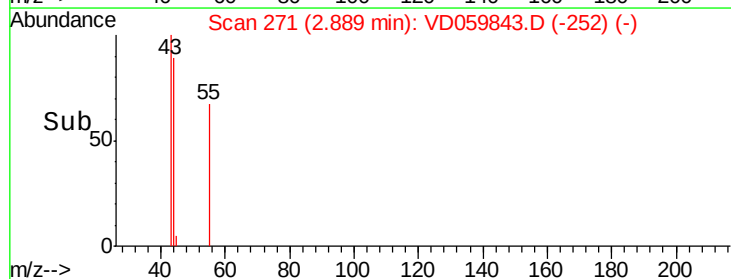
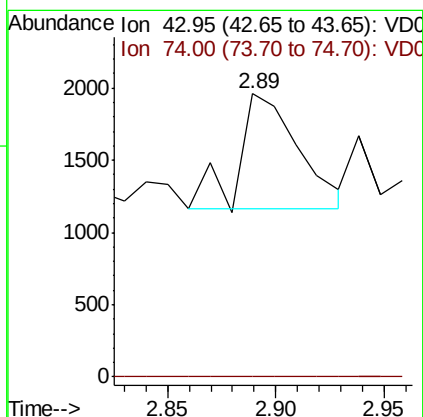
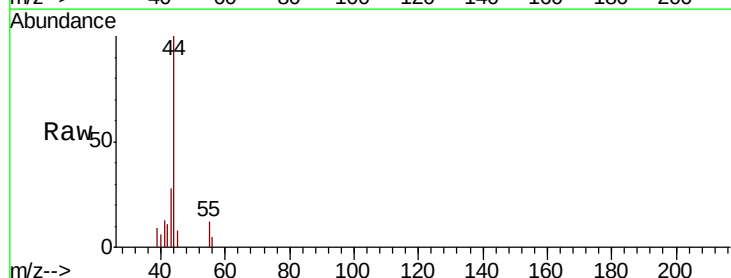
Acq: 20 Aug 2018 21:04

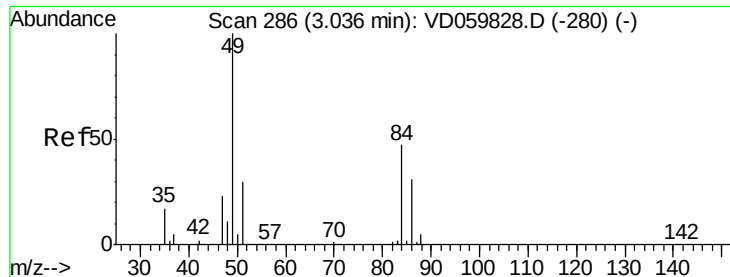
Tgt Ion: 43 Resp: 1552

Ion Ratio Lower Upper

43 100

74 0.0 11.4 17.0#

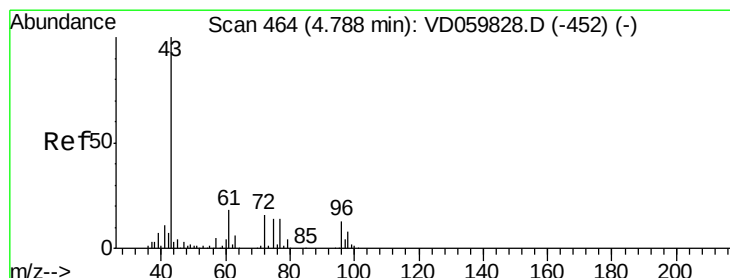
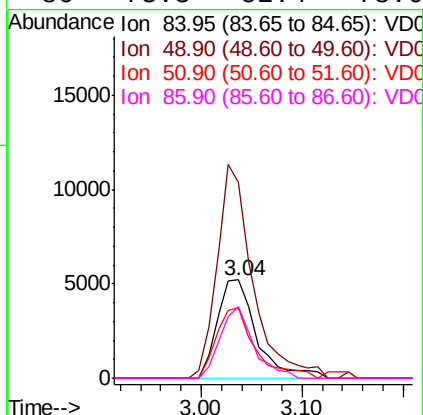
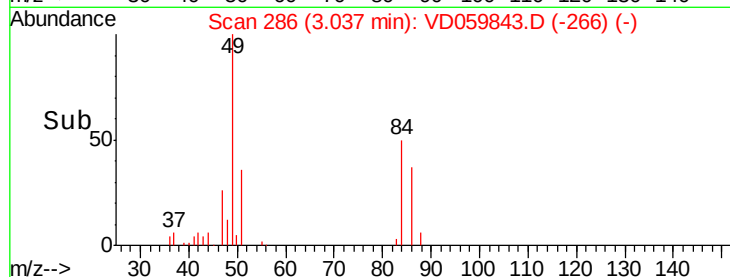
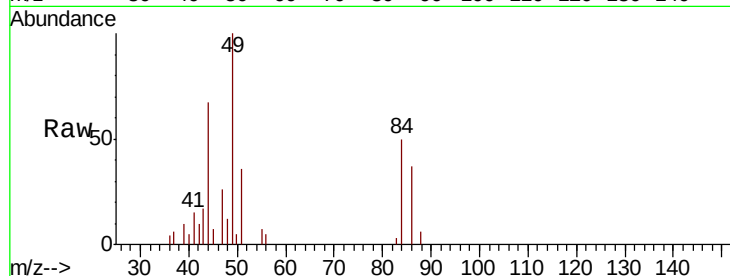




#20
Methylene Chloride
Concen: Below Cal
RT: 3.04 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD059843.D
Acq: 20 Aug 2018 21:04

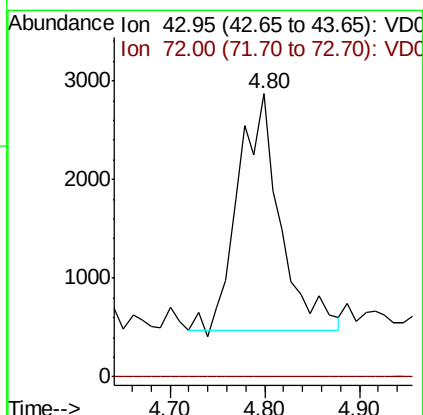
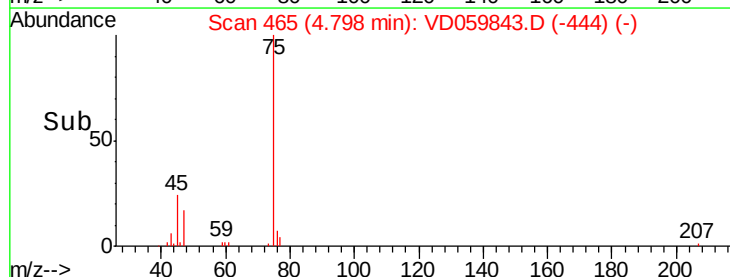
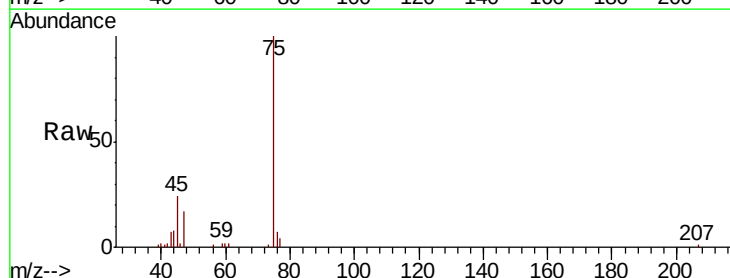
Instrument :
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RA-081418-ESW-15NSC-025

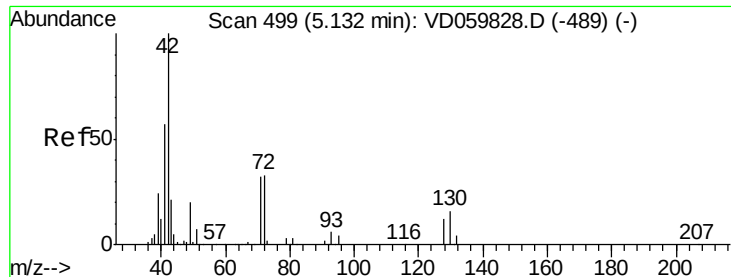
Tgt Ion: 84 Resp: 13989
Ion Ratio Lower Upper
84 100
49 199.5 170.4 255.6
51 72.3 51.4 77.0
86 73.3 52.4 78.6



#25
2-Butanone
Concen: 1.955 ug/l
RT: 4.80 min Scan# 465
Delta R.T. 0.01 min
Lab File: VD059843.D
Acq: 20 Aug 2018 21:04

Tgt Ion: 43 Resp: 7402
Ion Ratio Lower Upper
43 100
72 0.0 12.4 18.6#

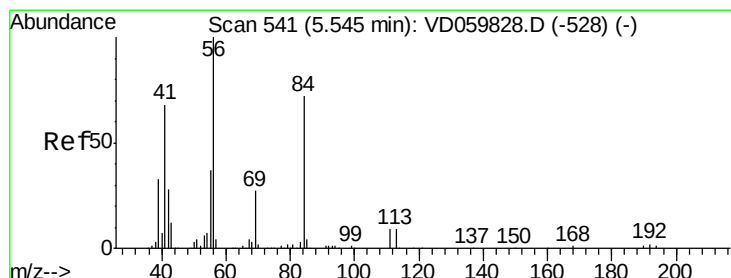
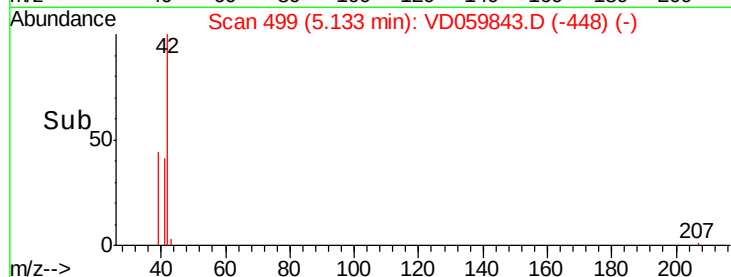
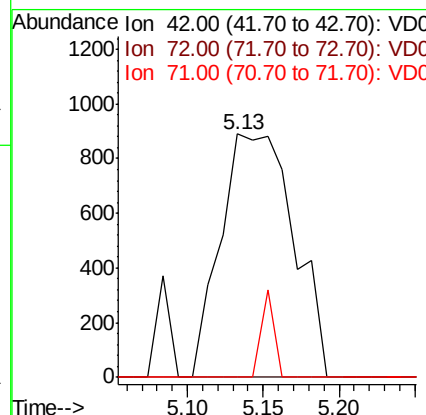
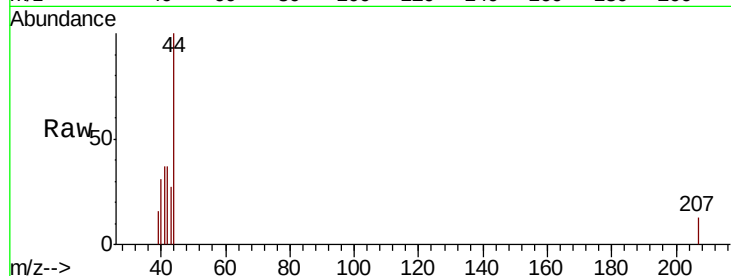




#29
Tetrahydrofuran
Concen: 1.565 ug/l
RT: 5.13 min Scan# 499
Delta R.T. 0.00 min
Lab File: VD059843.D
Acq: 20 Aug 2018 21:04

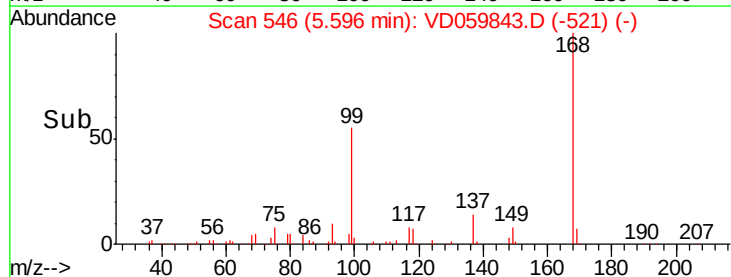
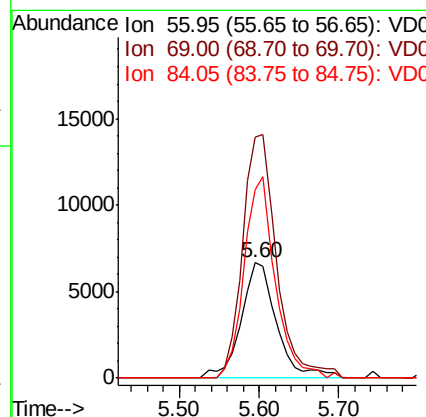
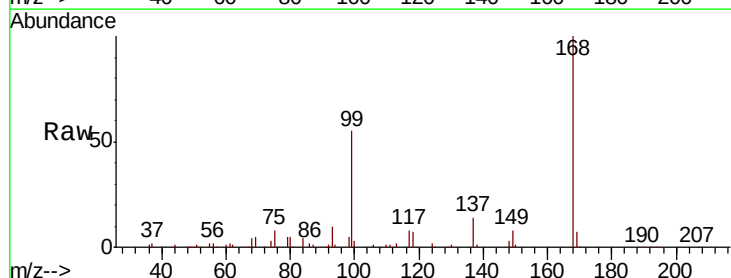
Instrument :
MSVOA_D
ClientSampleId :
RA-081418-ESW-15NSC-025

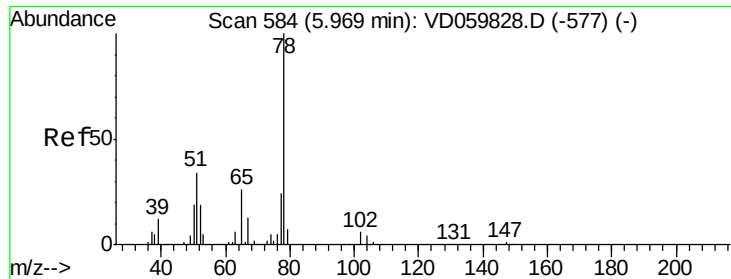
Tgt Ion: 42 Resp: 3000
Ion Ratio Lower Upper
42 100
72 0.0 25.8 38.6#
71 6.3 25.7 38.5#



#31
Cyclohexane
Concen: Below Cal
RT: 5.60 min Scan# 546
Delta R.T. 0.05 min
Lab File: VD059843.D
Acq: 20 Aug 2018 21:04

Tgt Ion: 56 Resp: 20516
Ion Ratio Lower Upper
56 100
69 209.6 21.7 32.5#
84 163.6 57.8 86.6#

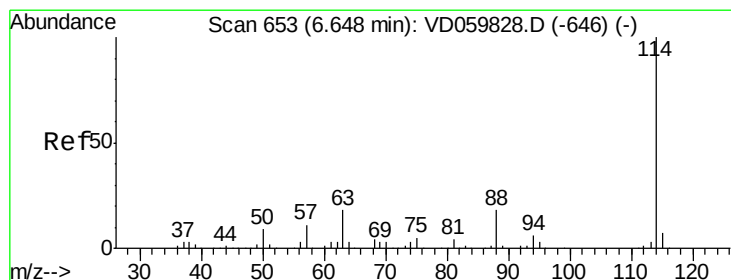
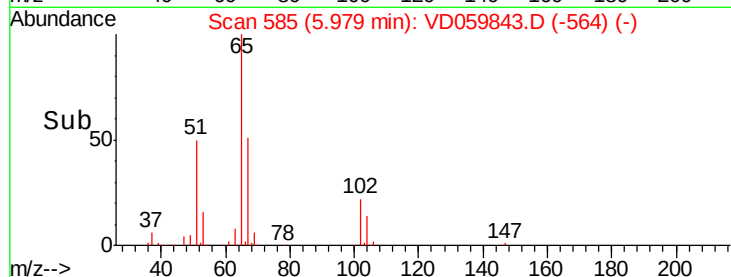
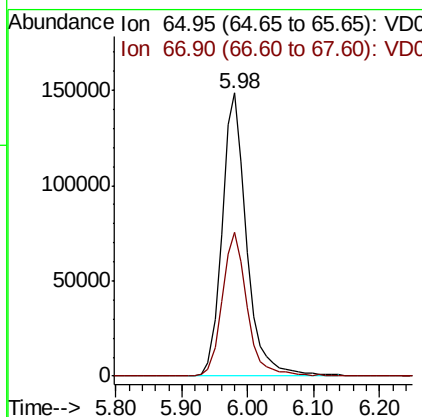
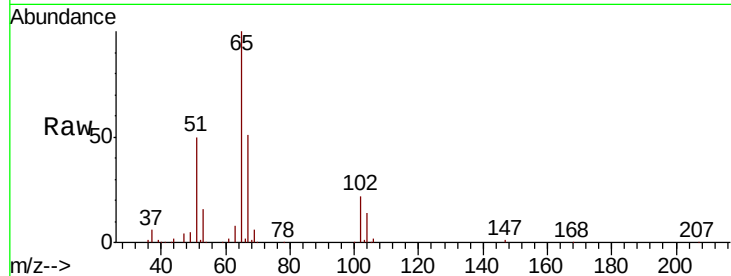




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 5.98 min Scan# 585
 Delta R.T. 0.01 min
 Lab File: VD059843.D
 Acq: 20 Aug 2018 21:04

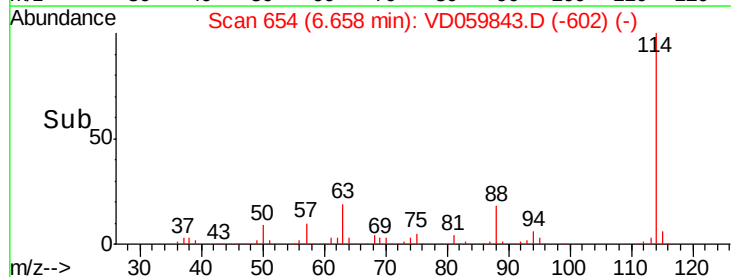
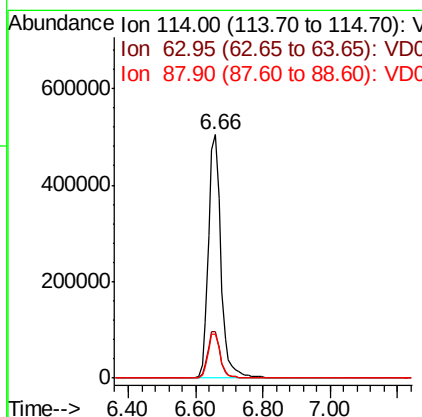
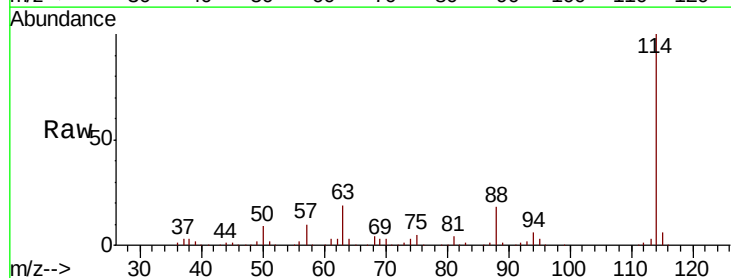
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081418-ESW-15NSC-025

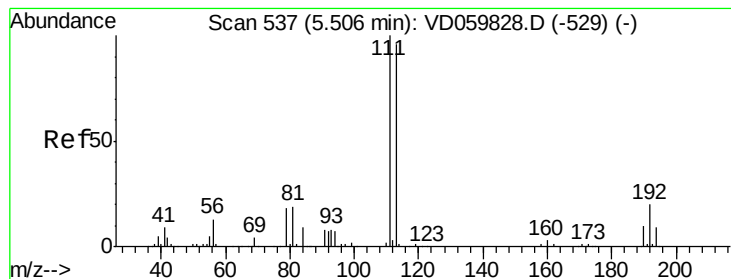
Tgt Ion: 65 Resp: 385619
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.66 min Scan# 654
 Delta R.T. 0.01 min
 Lab File: VD059843.D
 Acq: 20 Aug 2018 21:04

Tgt Ion: 114 Resp: 1296762
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 37.0
 88 18.3 0.0 37.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.51 min Scan# 537

Delta R.T. 0.00 min

Lab File: VD059843.D

Acq: 20 Aug 2018 21:04

Instrument :

MSVOA_D

ClientSampleId :

RA-081418-ESW-15NSC-025

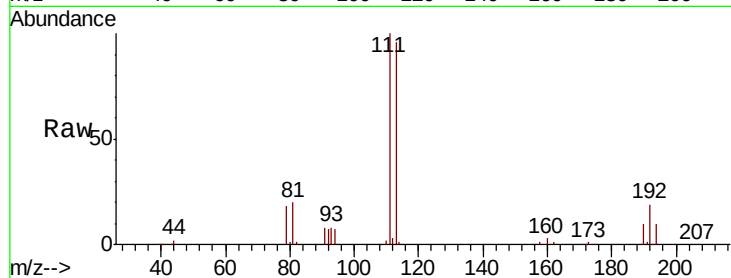
Tgt Ion:113 Resp: 504435

Ion Ratio Lower Upper

113 100

111 104.2 83.3 124.9

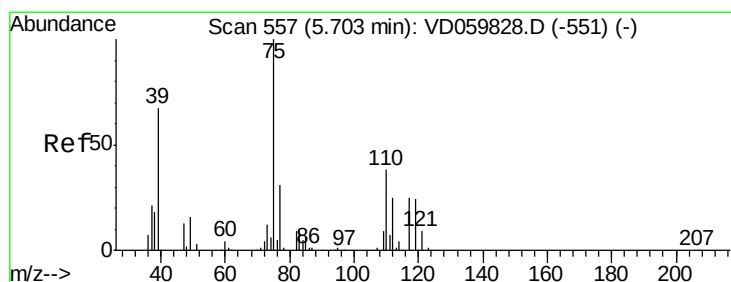
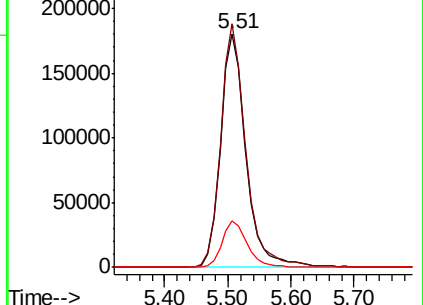
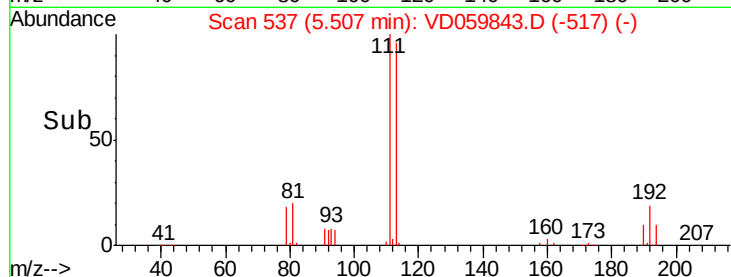
192 19.7 16.8 25.2



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: 5.963 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.11 min

Lab File: VD059843.D

Acq: 20 Aug 2018 21:04

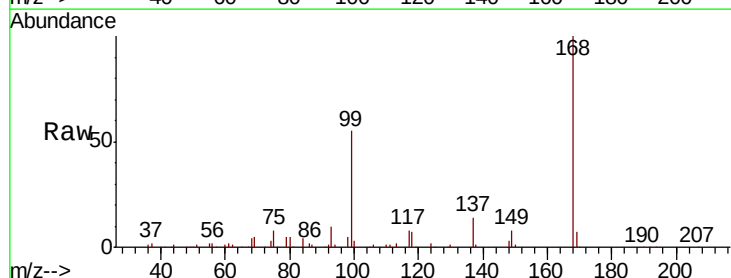
Tgt Ion: 75 Resp: 65578

Ion Ratio Lower Upper

75 100

110 6.8 18.8 56.4#

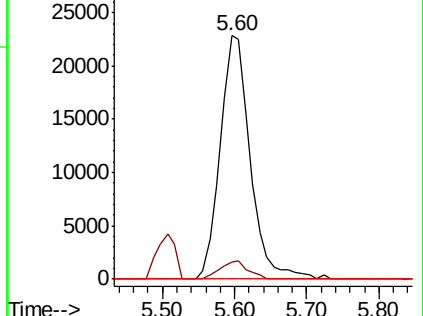
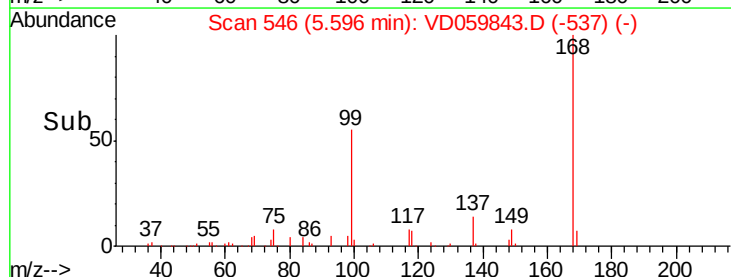
77 0.0 24.9 37.3#

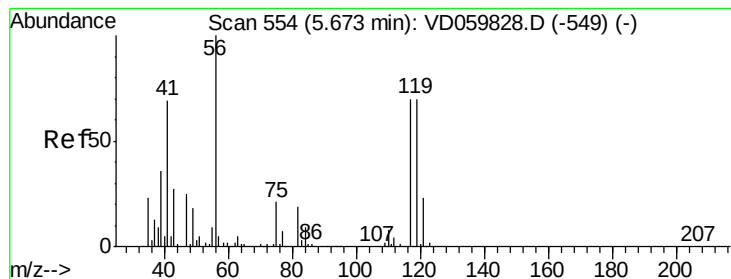


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 6.929 ug/l

RT: 5.61 min Scan# 547

Delta R.T. -0.07 min

Lab File: VD059843.D

Acq: 20 Aug 2018 21:04

Instrument :

MSVOA_D

ClientSampleId :

RA-081418-ESW-15NSC-025

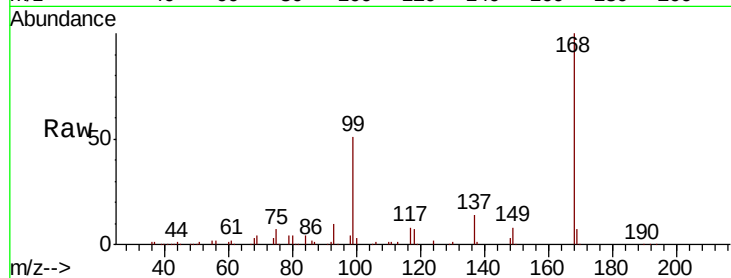
Tgt Ion:117 Resp: 76058

Ion Ratio Lower Upper

117 100

119 5.1 77.0 115.4#

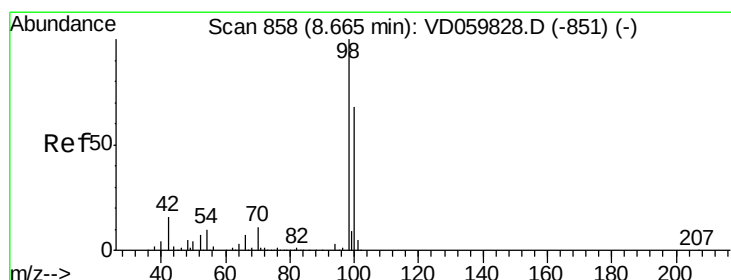
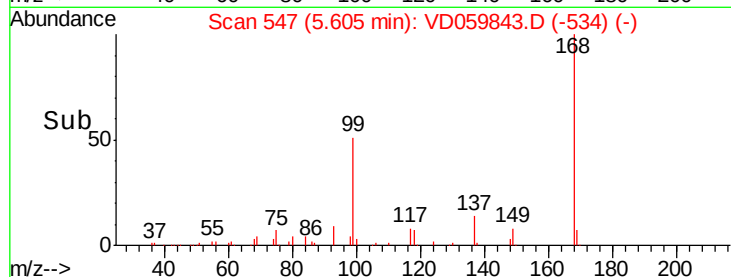
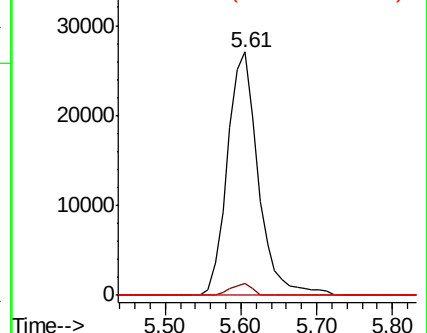
121 0.0 24.7 37.1#



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: VD059843.D

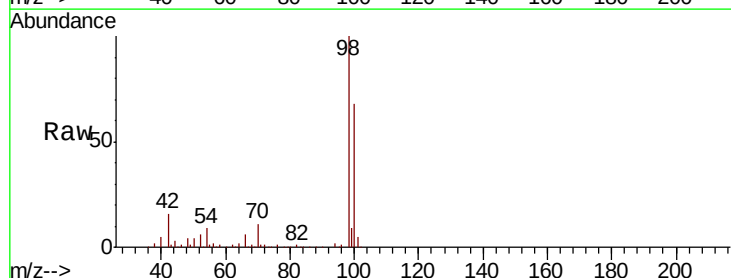
Acq: 20 Aug 2018 21:04

Tgt Ion: 98 Resp: 1241298

Ion Ratio Lower Upper

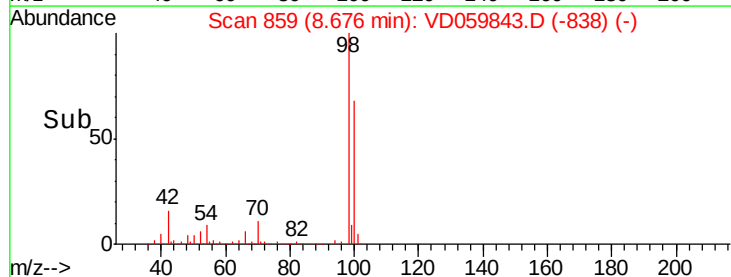
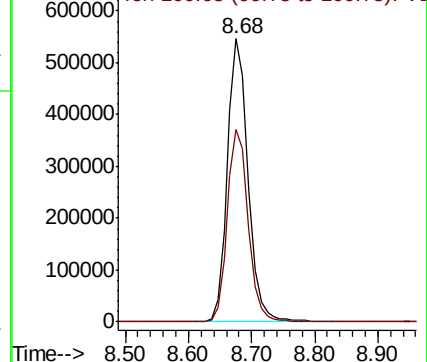
98 100

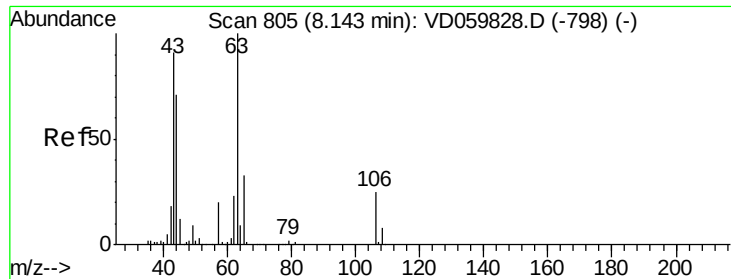
100 68.0 55.0 82.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

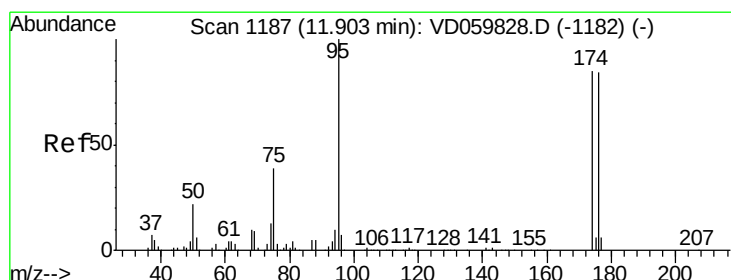
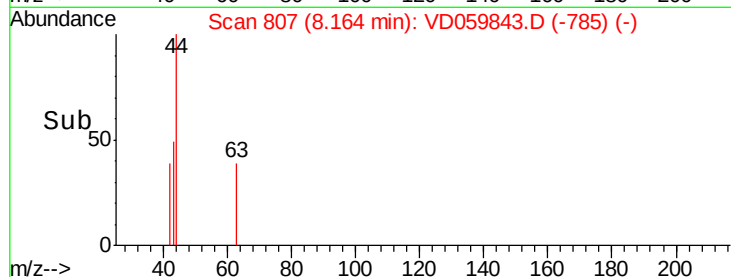
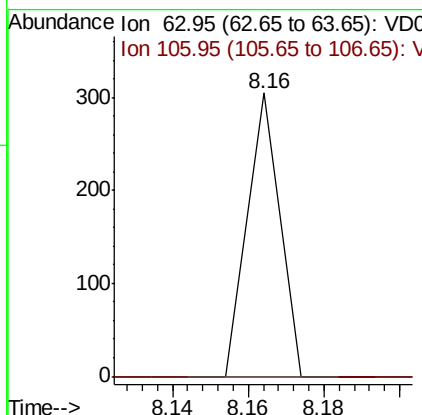
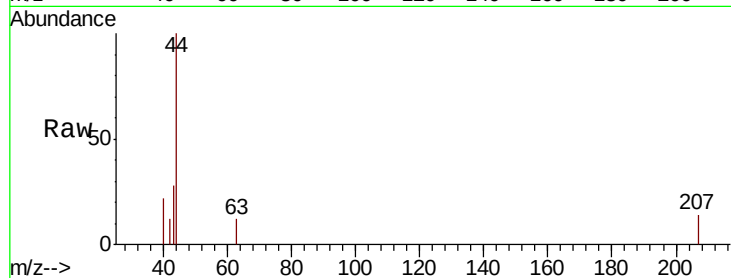




#58
 2-Chloroethyl Vinyl ether
 Concen: 9.539 ug/l
 RT: 8.16 min Scan# 807
 Delta R.T. 0.02 min
 Lab File: VD059843.D
 Acq: 20 Aug 2018 21:04

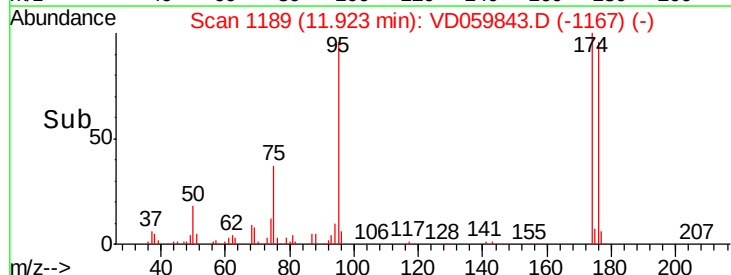
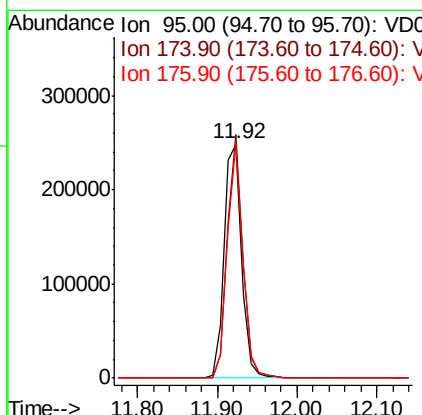
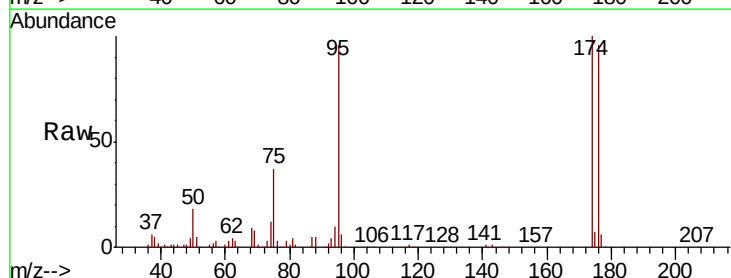
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081418-ESW-15NSC-025

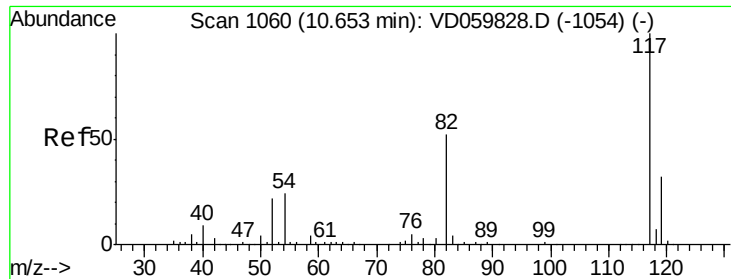
Tgt Ion: 63 Resp: 180
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.6 29.4#



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 11.92 min Scan# 1189
 Delta R.T. 0.02 min
 Lab File: VD059843.D
 Acq: 20 Aug 2018 21:04

Tgt Ion: 95 Resp: 387309
 Ion Ratio Lower Upper
 95 100
 174 104.2 0.0 169.2
 176 100.3 0.0 168.0

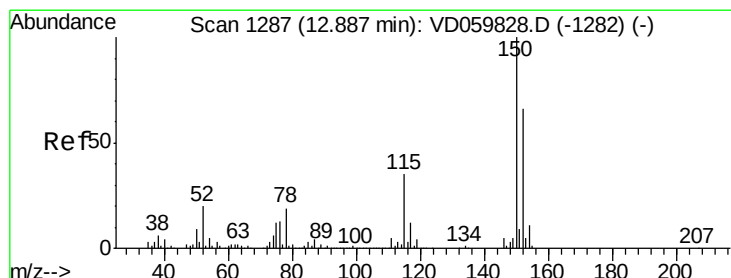
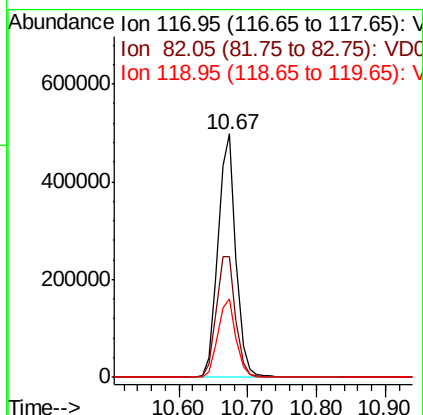
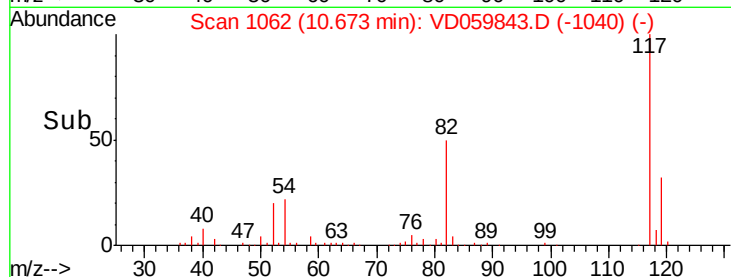
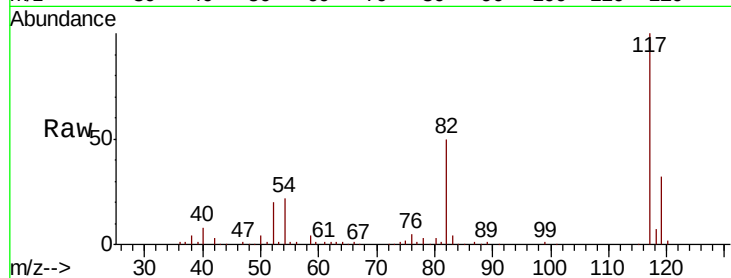




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.67 min Scan# 1062
Delta R.T. 0.02 min
Lab File: VD059843.D
Acq: 20 Aug 2018 21:04

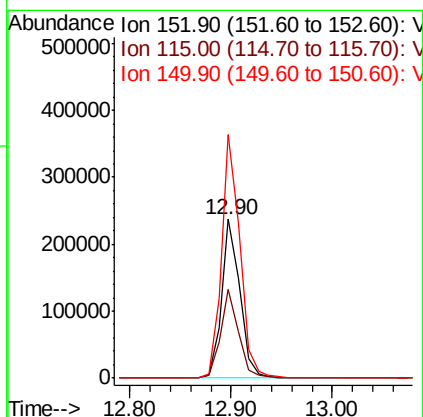
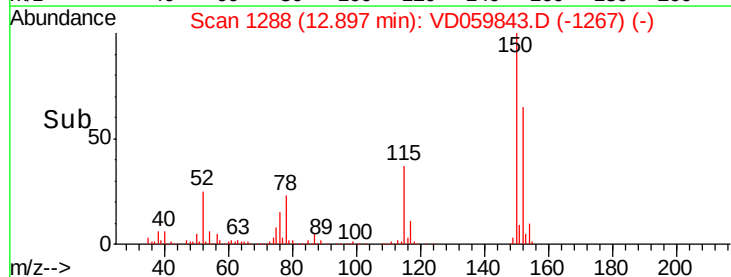
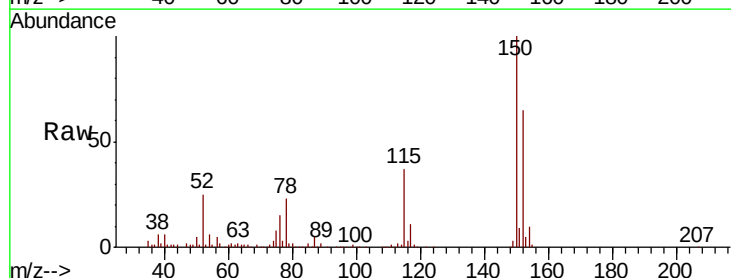
Instrument :
MSVOA_D
ClientSampleId :
RA-081418-ESW-15NSC-025

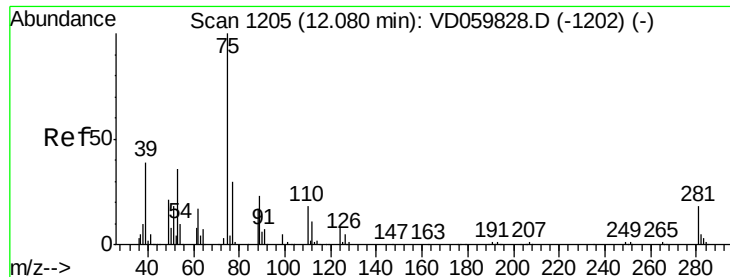
Tgt Ion:117 Resp: 892083
Ion Ratio Lower Upper
117 100
82 49.8 41.6 62.4
119 32.2 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. 0.01 min
Lab File: VD059843.D
Acq: 20 Aug 2018 21:04

Tgt Ion:152 Resp: 300046
Ion Ratio Lower Upper
152 100
115 56.1 26.9 80.6
150 153.6 0.0 306.8





#76

1,2,3-Trichloropropane

Concen: 27.792 ug/l

RT: 11.92 min Scan# 1189

Delta R.T. -0.16 min

Lab File: VD059843.D

Acq: 20 Aug 2018 21:04

Instrument :

MSVOA_D

ClientSampleId :

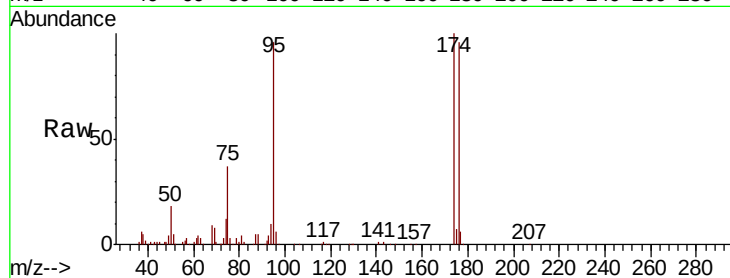
RA-081418-ESW-15NSC-025

Tgt Ion: 75 Resp: 137959

Ion Ratio Lower Upper

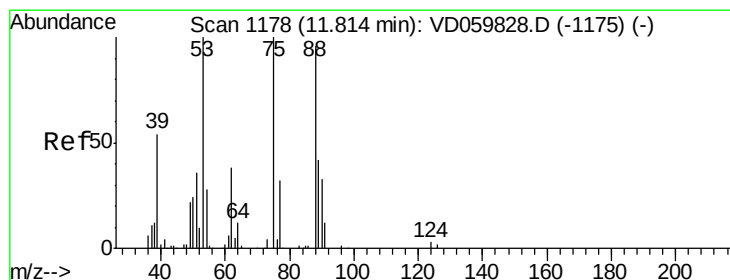
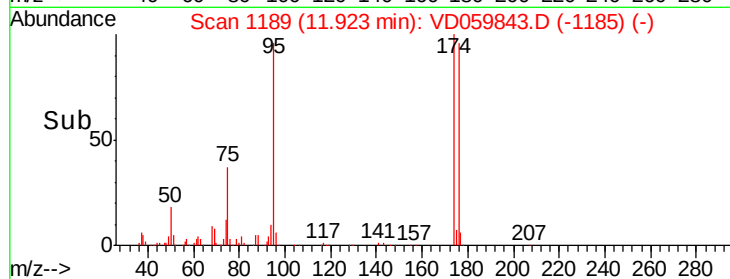
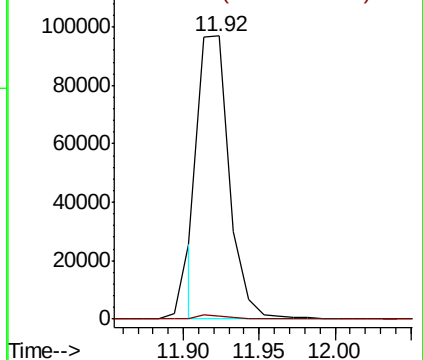
75 100

77 1.1 16.0 47.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 99.178 ug/l

RT: 11.92 min Scan# 1189

Delta R.T. 0.11 min

Lab File: VD059843.D

Acq: 20 Aug 2018 21:04

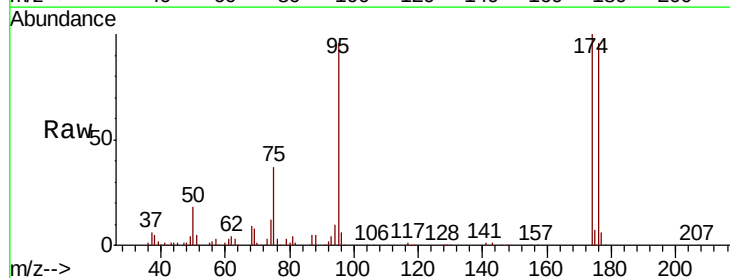
Tgt Ion: 75 Resp: 153900

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

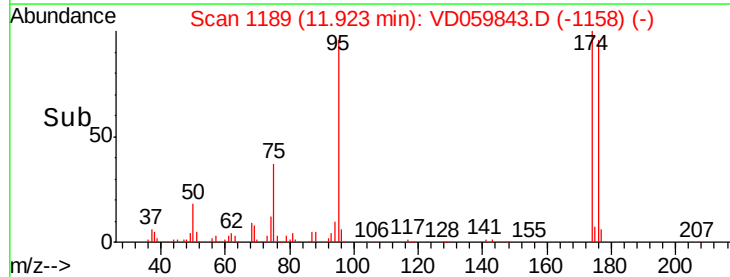
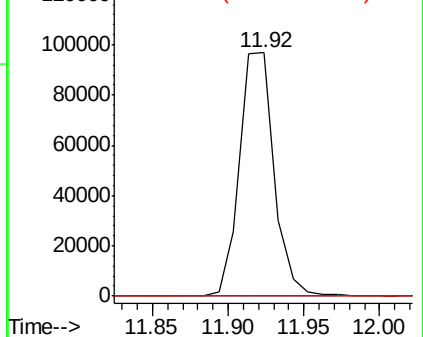
89 0.0 33.9 50.9#

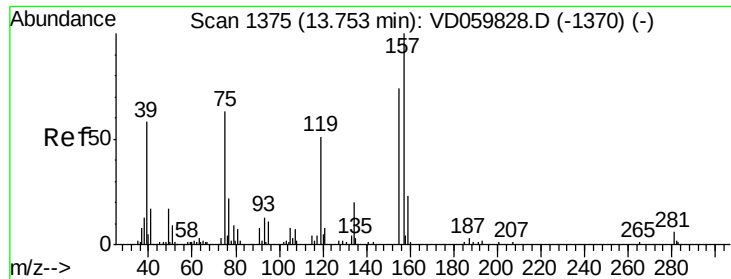


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.482 ug/l

RT: 13.77 min Scan# 1377

Delta R.T. 0.02 min

Lab File: VD059843.D

Acq: 20 Aug 2018 21:04

Instrument :

MSVOA_D

ClientSampleId :

RA-081418-ESW-15NSC-025

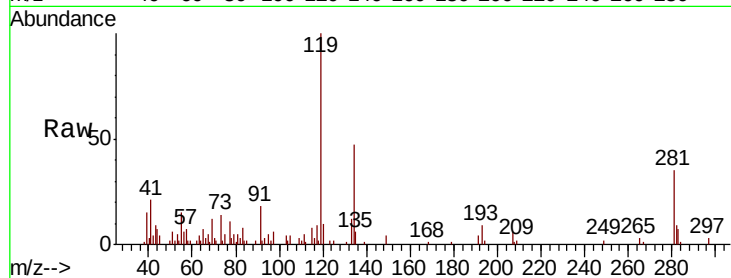
Tgt Ion: 75 Resp: 1781

Ion Ratio Lower Upper

75 100

155 0.0 59.1 177.3#

157 0.0 79.7 238.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

