

Data File : VD059853.D
Acq On : 21 Aug 2018 14:00
Operator : JC/SY
Sample : J4511-08RE
Misc : 5.07g/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-030

Quant Time: Aug 22 01:09:51 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	5.60	168	875906	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.65	114	1218226	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.66	117	923163	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	390165	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.97	65	413246	58.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.90%	
35) Dibromofluoromethane	5.51	113	557204	61.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.68%	
50) Toluene-d8	8.67	98	1482620	61.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.04%	
62) 4-Bromofluorobenzene	11.91	95	509196	54.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.22%	

Target Compounds

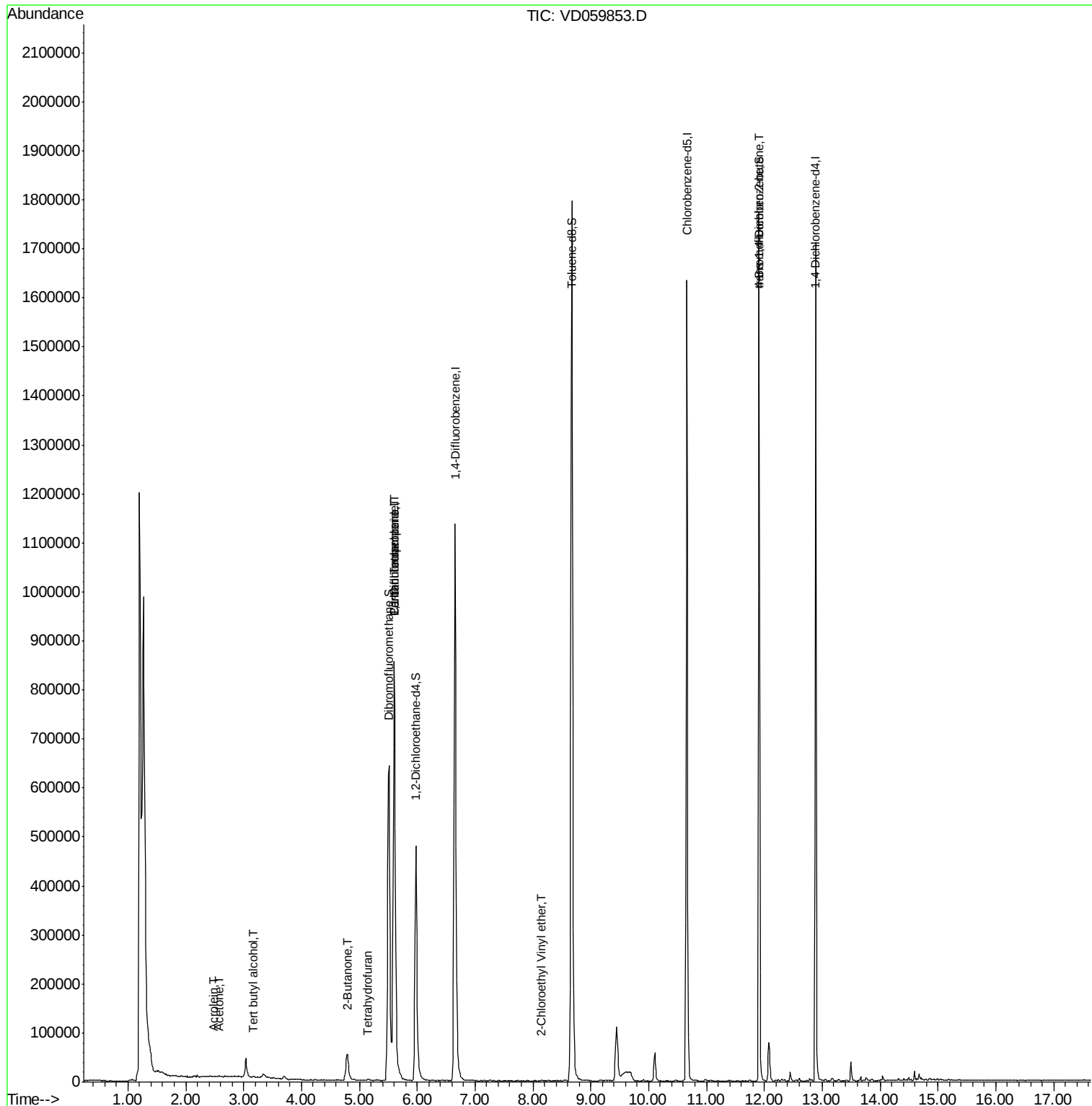
					Qvalue	
11) Tert butyl alcohol	3.17	59	823	3.176 ug/l #	1	
13) Acrolein	2.47	56	1787	7.777 ug/l	86	
16) Acetone	2.59	43	4213	3.586 ug/l #	88	
17) Carbon Disulfide	2.73	76	187	Below Cal #	76	
18) Methyl Acetate	2.85	43	4181	Below Cal #	65	
20) Methylene Chloride	3.04	84	15741	Below Cal	90	
25) 2-Butanone	4.79	43	5405	1.522 ug/l #	63	
29) Tetrahydrofuran	5.15	42	3006	1.672 ug/l #	48	
31) Cyclohexane	5.60	56	18393	Below Cal #	1	
36) 1,1-Dichloropropene	5.60	75	62439	6.044 ug/l #	48	
38) Carbon Tetrachloride	5.60	117	70258	6.813 ug/l #	16	
58) 2-Chloroethyl Vinyl ether	8.15	63	276	9.560 ug/l #	51	
67) Ethyl Benzene	10.83	91	1213	Below Cal #	43	
80) 1,3,5-Trimethylbenzene	12.30	105	1101	Below Cal	78	
81) trans-1,4-Dichloro-2-buten	11.91	75	200552	99.390 ug/l #	10	
82) 4-Chlorotoluene	12.30	91	1699	Below Cal	98	
89) n-Butylbenzene	13.17	91	1639	Below Cal	84	
91) 1,2-Dichlorobenzene	13.18	146	967	Below Cal #	68	

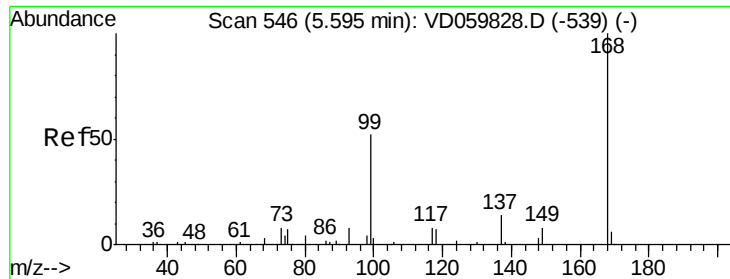
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 546

Delta R.T. 0.01 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

Instrument :

MSVOA_D

ClientSampleId :

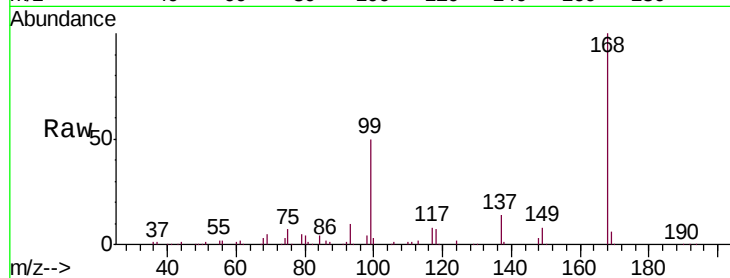
RA-081518-FL-030

Tgt Ion:168 Resp: 875906

Ion Ratio Lower Upper

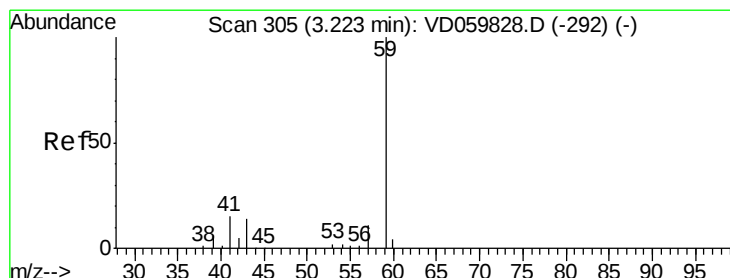
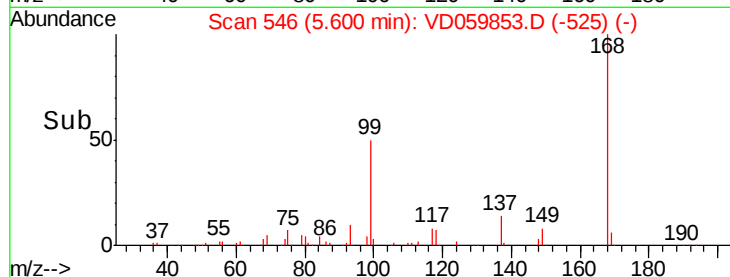
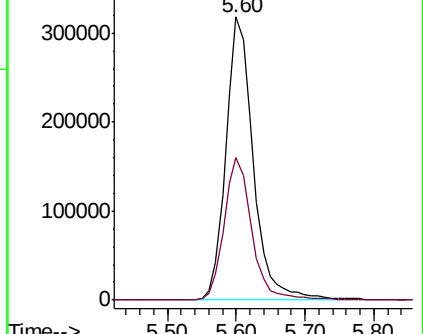
168 100

99 50.3 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: 3.176 ug/l

RT: 3.17 min Scan# 299

Delta R.T. -0.05 min

Lab File: VD059853.D

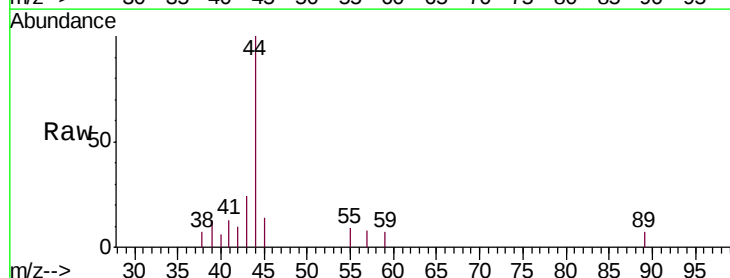
Acq: 21 Aug 2018 14:00

Tgt Ion: 59 Resp: 823

Ion Ratio Lower Upper

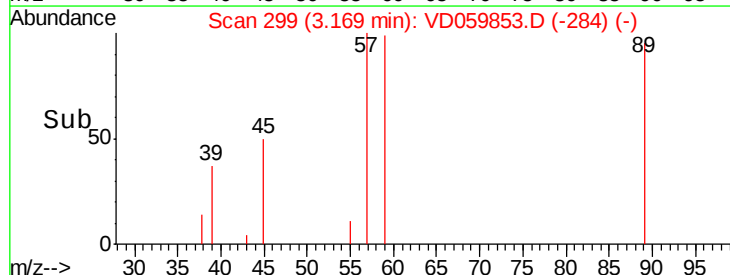
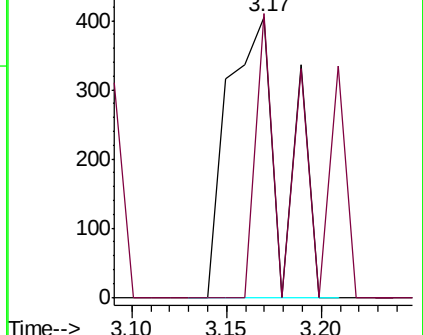
59 100

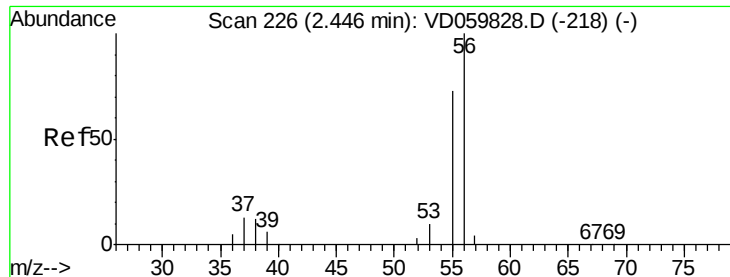
57 101.2 10.3 15.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 7.777 ug/l

RT: 2.47 min Scan# 228

Delta R.T. 0.03 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

Instrument :

MSVOA_D

ClientSampleId :

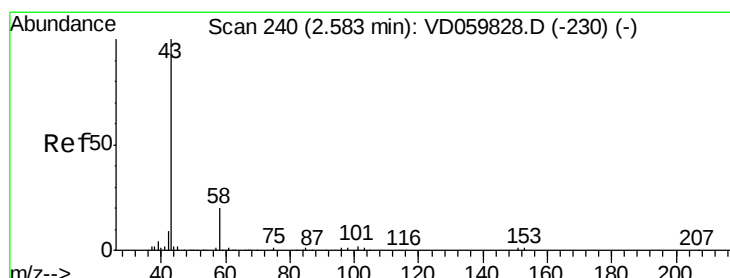
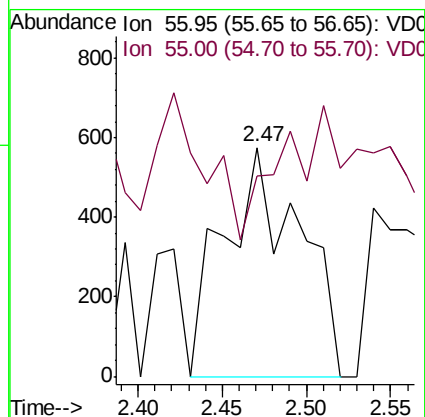
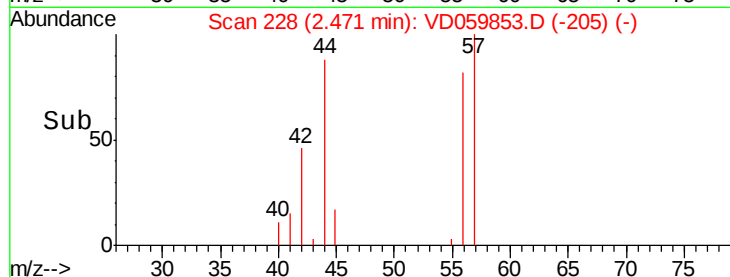
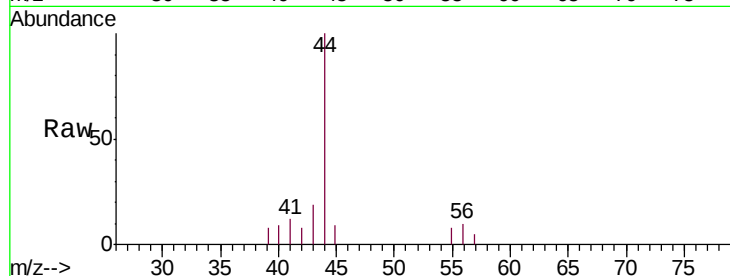
RA-081518-FL-030

Tgt Ion: 56 Resp: 1787

Ion Ratio Lower Upper

56 100

55 87.7 60.4 90.6



#16

Acetone

Concen: 3.586 ug/l

RT: 2.59 min Scan# 240

Delta R.T. 0.01 min

Lab File: VD059853.D

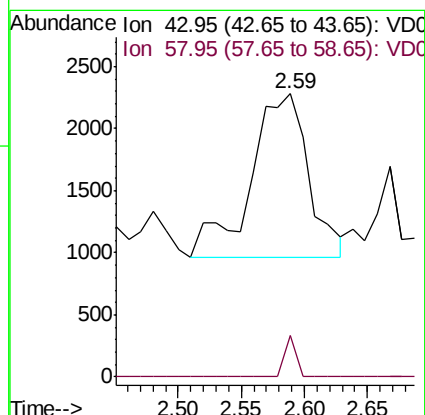
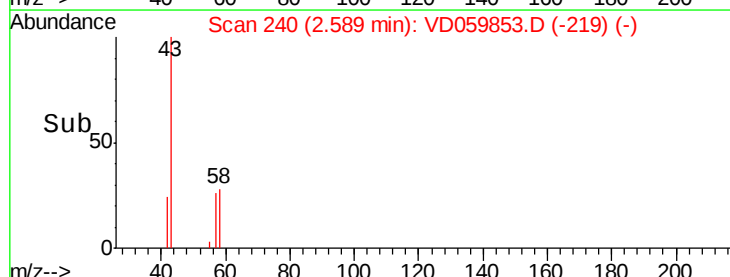
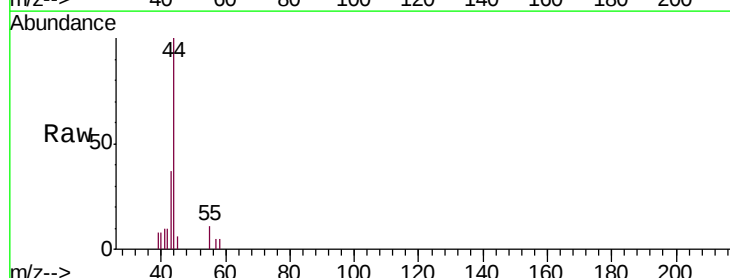
Acq: 21 Aug 2018 14:00

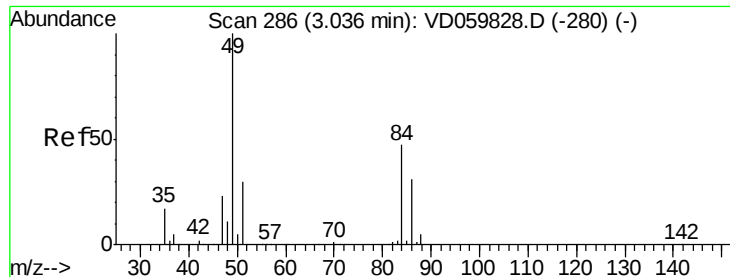
Tgt Ion: 43 Resp: 4213

Ion Ratio Lower Upper

43 100

58 14.7 16.2 24.2#

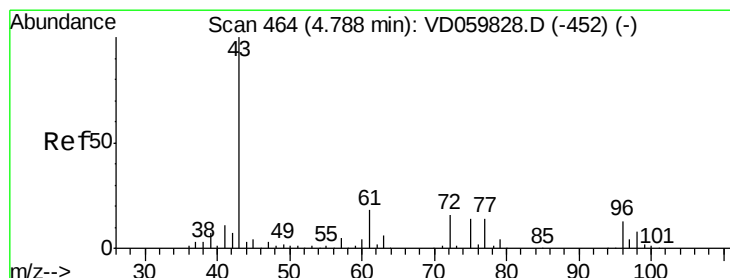
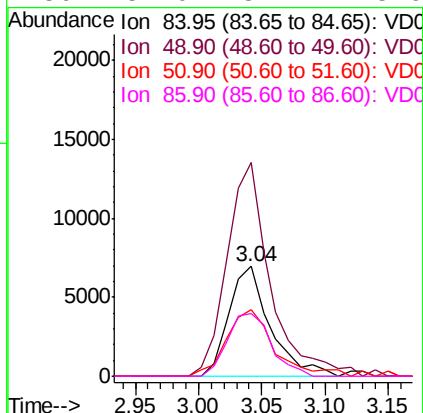
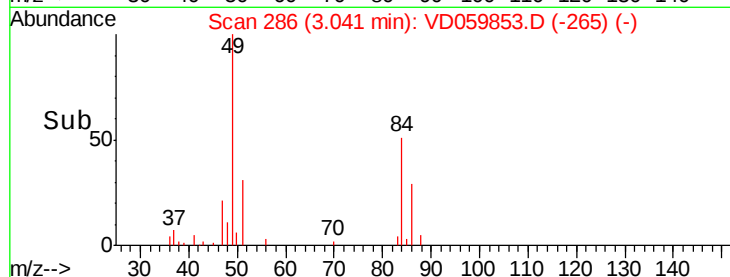
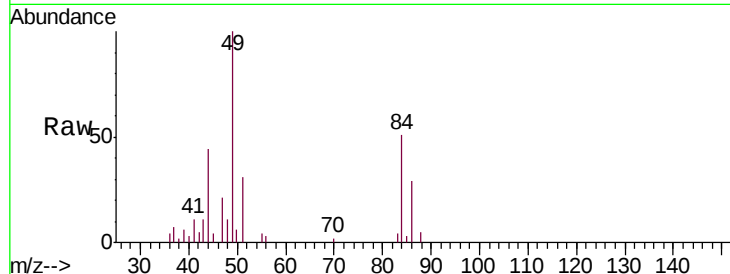




#20
Methylene Chloride
Concen: Below Cal
RT: 3.04 min Scan# 286
Delta R.T. 0.01 min
Lab File: VD059853.D
Acq: 21 Aug 2018 14:00

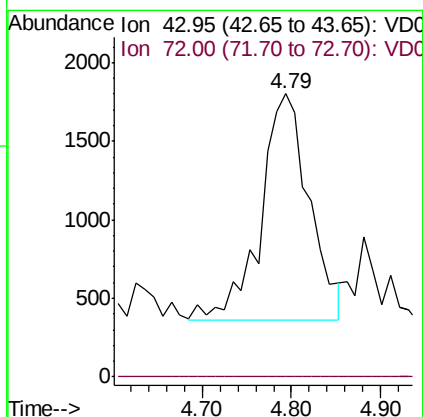
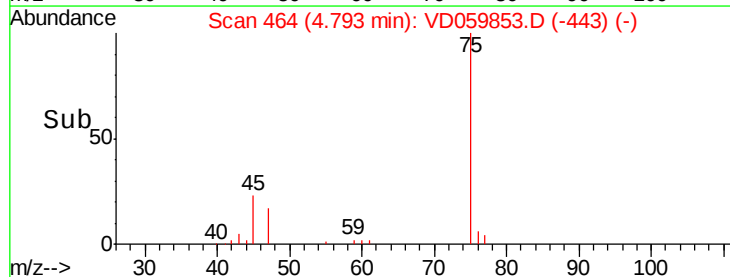
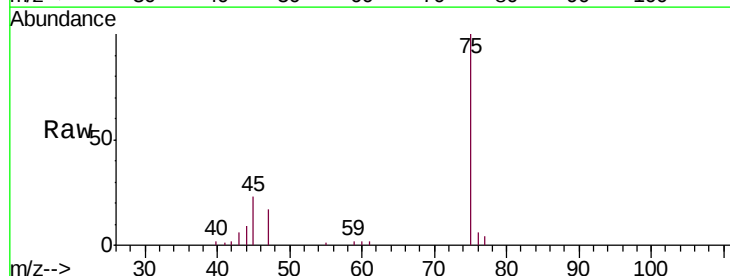
Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-030

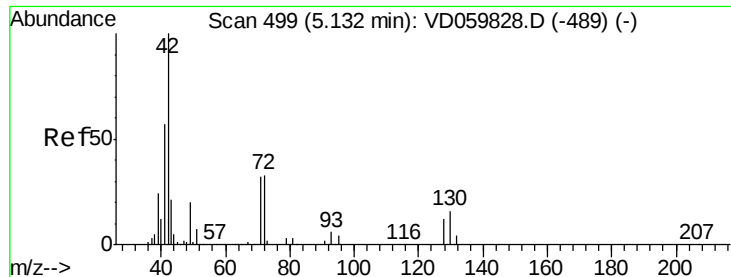
Tgt Ion: 84 Resp: 15741
Ion Ratio Lower Upper
84 100
49 194.3 170.4 255.6
51 61.0 51.4 77.0
86 57.0 52.4 78.6



#25
2-Butanone
Concen: 1.522 ug/l
RT: 4.79 min Scan# 464
Delta R.T. 0.01 min
Lab File: VD059853.D
Acq: 21 Aug 2018 14:00

Tgt Ion: 43 Resp: 5405
Ion Ratio Lower Upper
43 100
72 0.0 12.4 18.6#





#29

Tetrahydrofuran

Concen: 1.672 ug/l

RT: 5.15 min Scan# 500

Delta R.T. 0.02 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-030

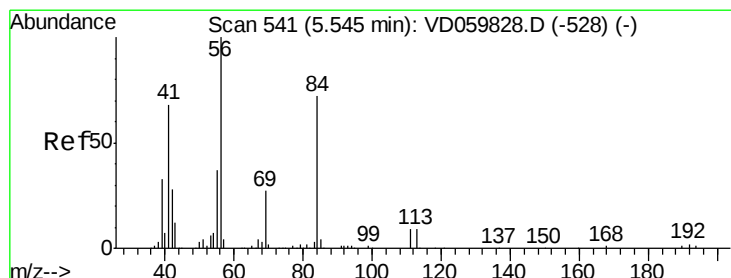
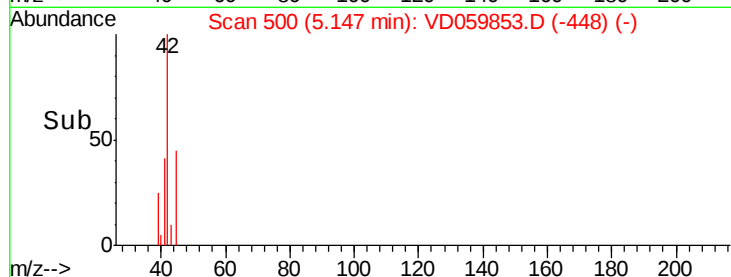
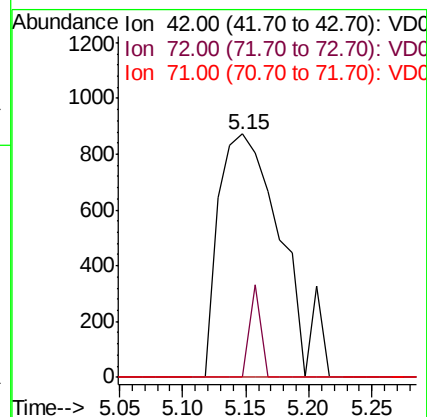
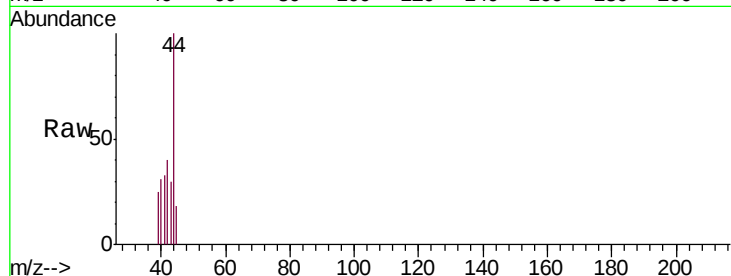
Tgt Ion: 42 Resp: 3006

Ion Ratio Lower Upper

42 100

72 6.6 25.8 38.6#

71 0.0 25.7 38.5#



#31

Cyclohexane

Concen: Below Cal

RT: 5.60 min Scan# 546

Delta R.T. 0.06 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

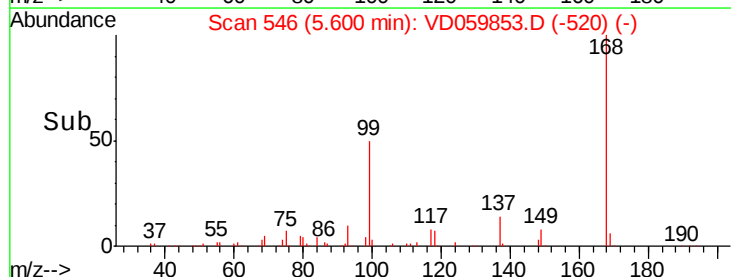
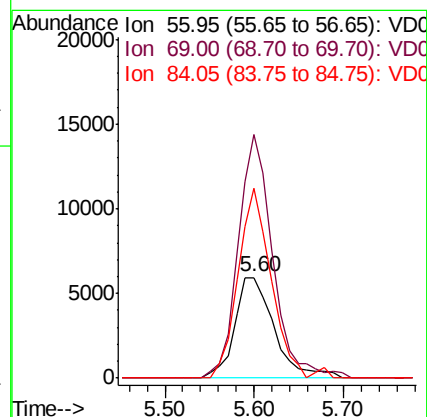
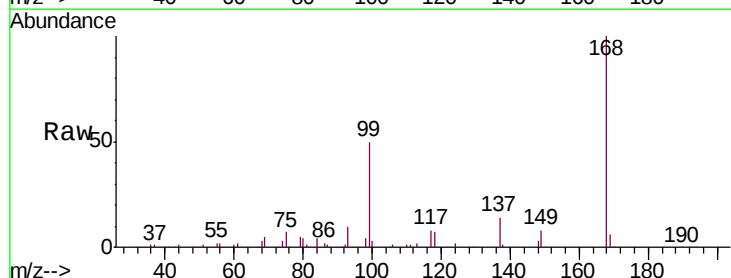
Tgt Ion: 56 Resp: 18393

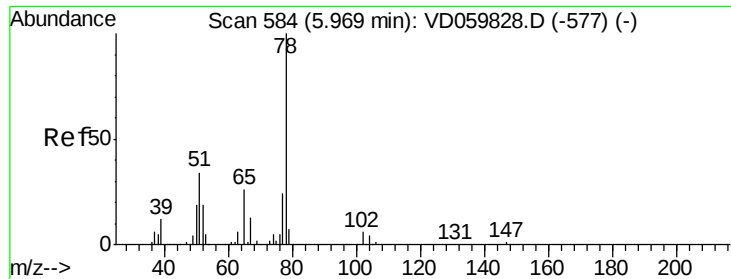
Ion Ratio Lower Upper

56 100

69 242.4 21.7 32.5#

84 189.2 57.8 86.6#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 5.97 min Scan# 584

Delta R.T. 0.01 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

Instrument :

MSVOA_D

ClientSampleId :

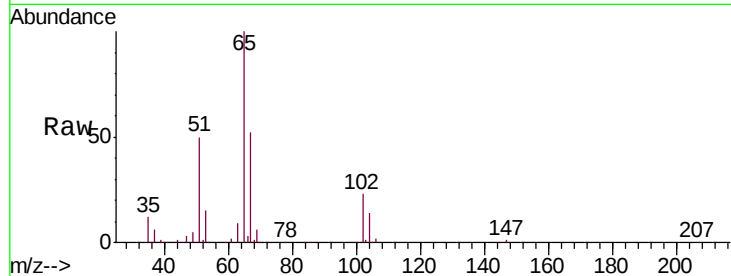
RA-081518-FL-030

Tgt Ion: 65 Resp: 413246

Ion Ratio Lower Upper

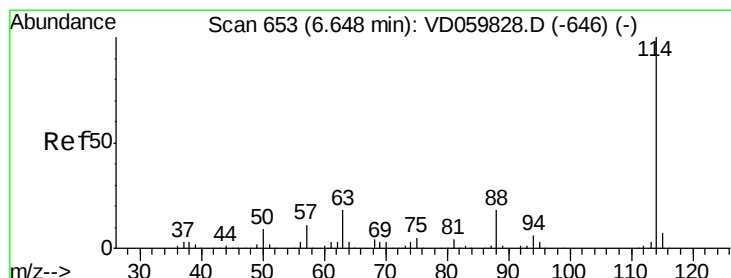
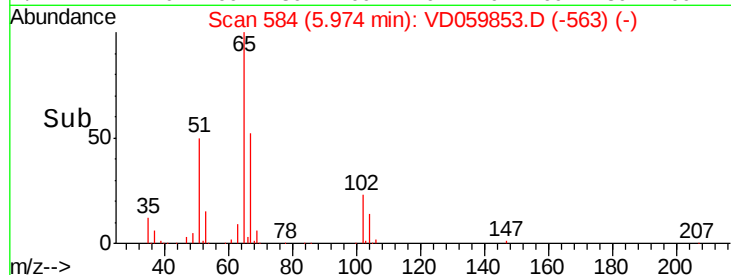
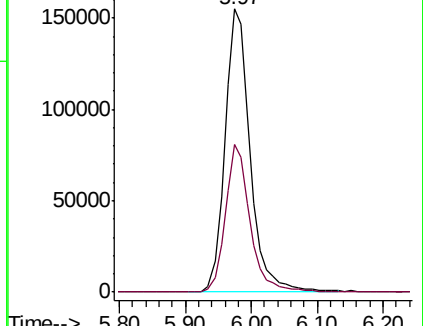
65 100

67 52.4 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: 6.65 min Scan# 653

Delta R.T. 0.01 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

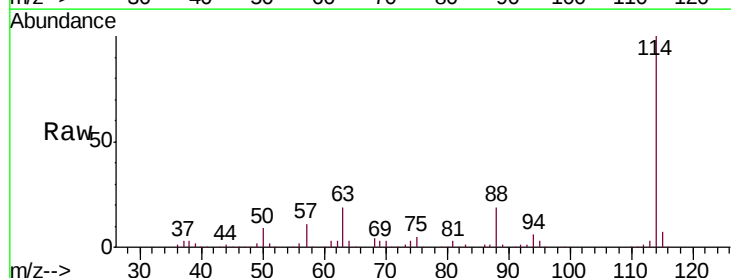
Tgt Ion: 114 Resp: 1218226

Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.0

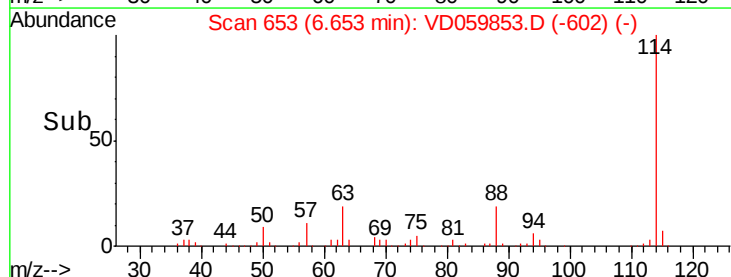
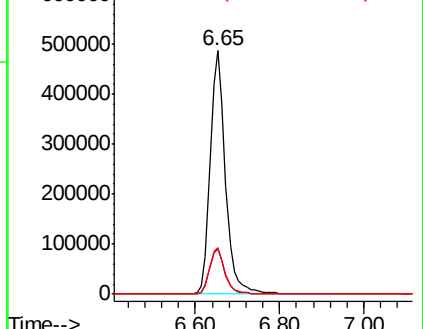
88 19.1 0.0 37.0

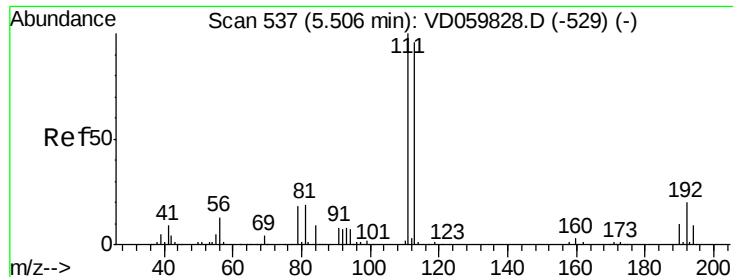


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

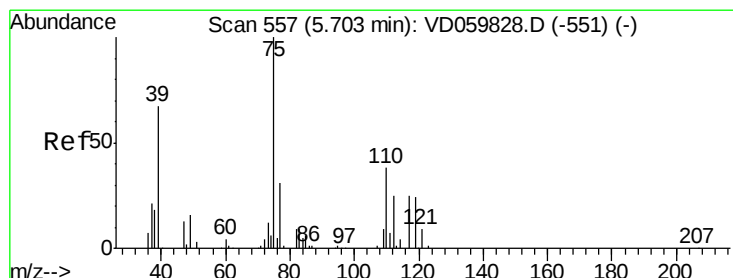
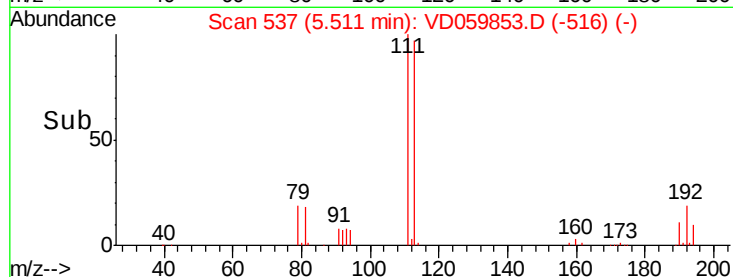
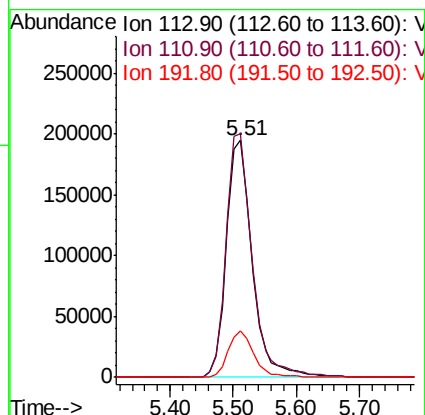
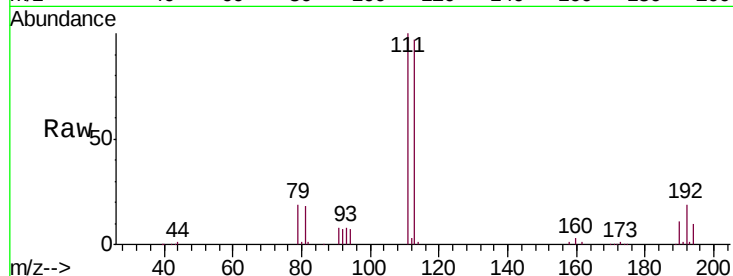




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.51 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VD059853.D
 Acq: 21 Aug 2018 14:00

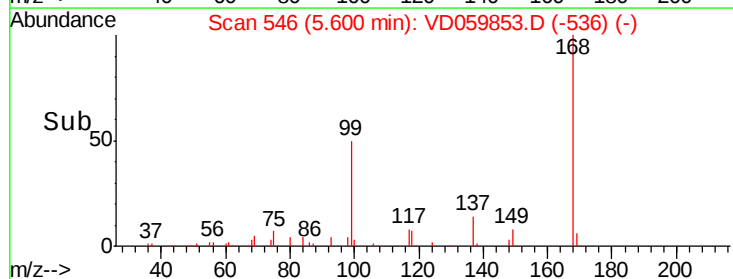
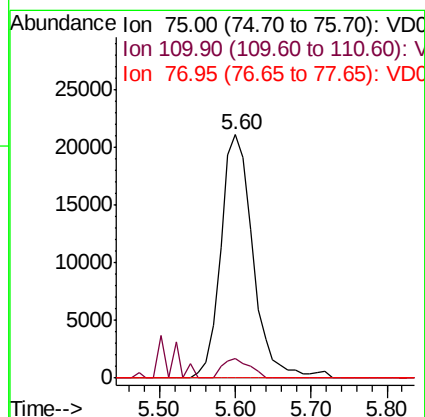
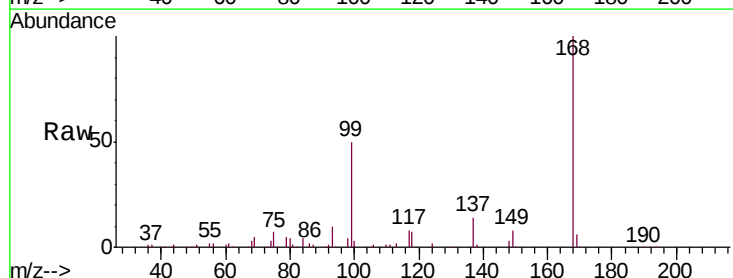
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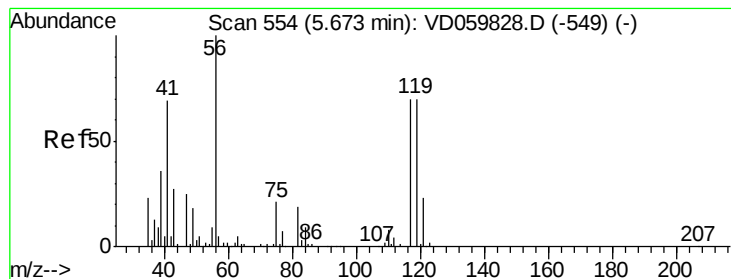
Tgt Ion:113 Resp: 557204
 Ion Ratio Lower Upper
 113 100
 111 102.7 83.3 124.9
 192 19.7 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 6.044 ug/l
 RT: 5.60 min Scan# 546
 Delta R.T. -0.10 min
 Lab File: VD059853.D
 Acq: 21 Aug 2018 14:00

Tgt Ion: 75 Resp: 62439
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.8 56.4#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.813 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.07 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-030

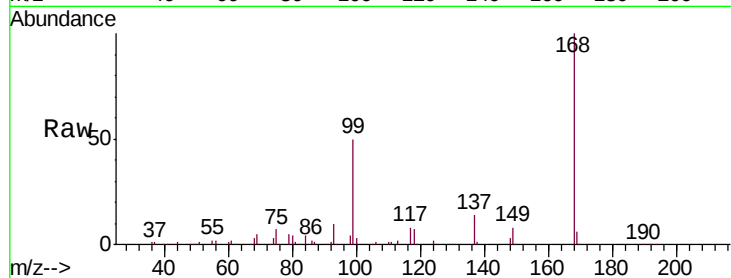
Tgt Ion:117 Resp: 70258

Ion Ratio Lower Upper

117 100

119 5.5 77.0 115.4#

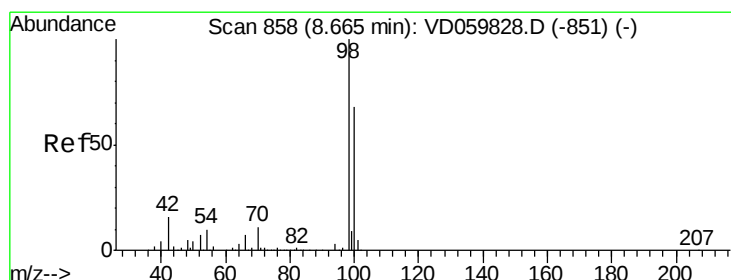
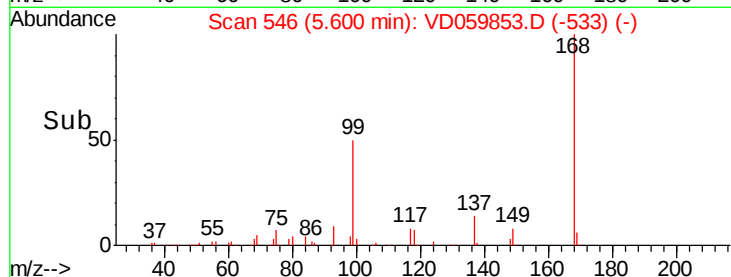
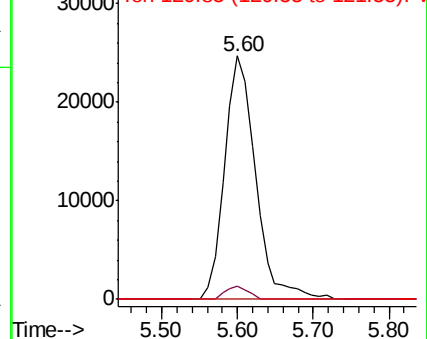
121 0.0 24.7 37.1#



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: 8.67 min Scan# 858

Delta R.T. 0.01 min

Lab File: VD059853.D

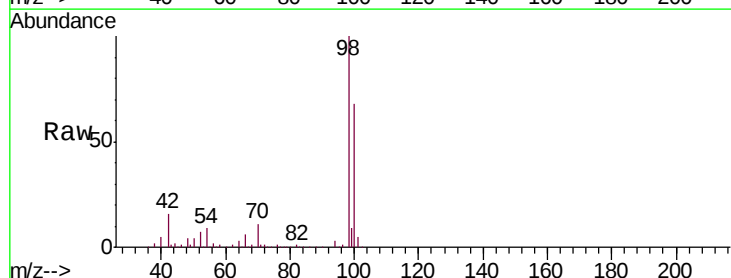
Acq: 21 Aug 2018 14:00

Tgt Ion: 98 Resp: 1482620

Ion Ratio Lower Upper

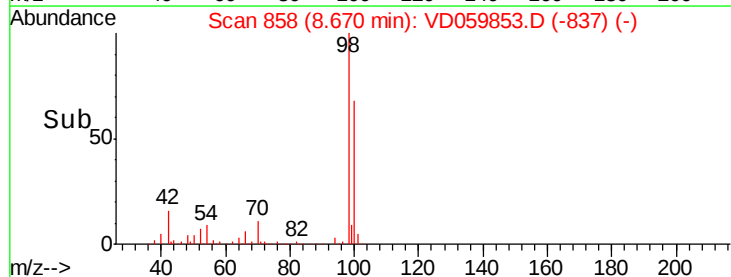
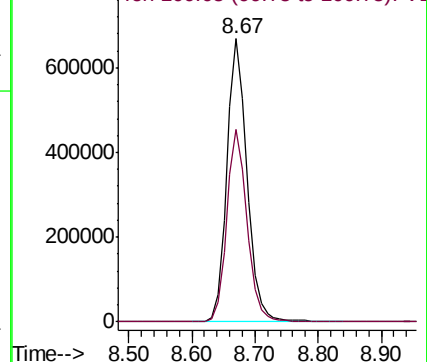
98 100

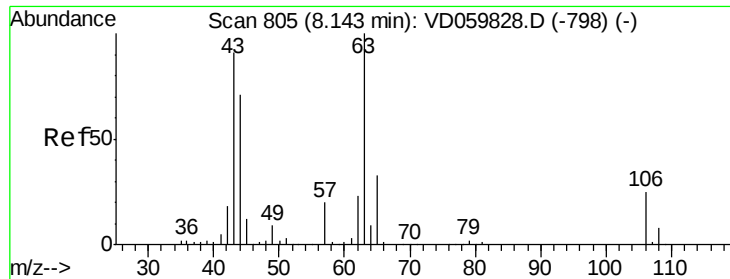
100 68.1 55.0 82.4



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: 9.560 ug/l

RT: 8.15 min Scan# 805

Delta R.T. 0.01 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

Instrument :

MSVOA_D

ClientSampleId :

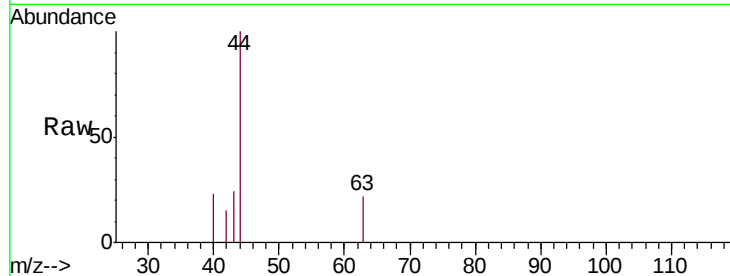
RA-081518-FL-030

Tgt Ion: 63 Resp: 276

Ion Ratio Lower Upper

63 100

106 0.0 19.6 29.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

8.15

500

400

300

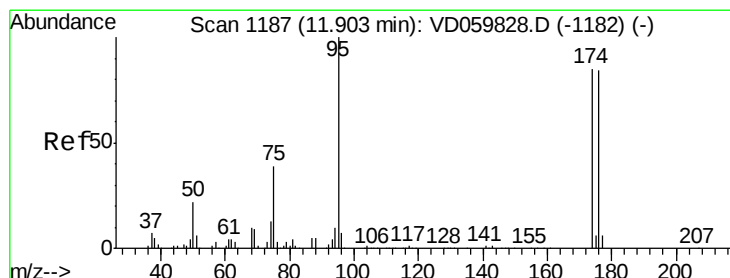
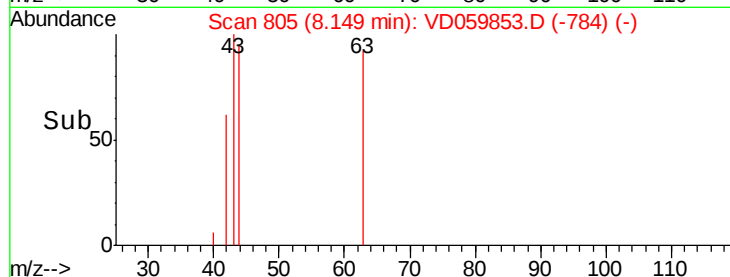
200

100

0

8.12 8.14 8.16 8.18

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.91 min Scan# 1187

Delta R.T. 0.01 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

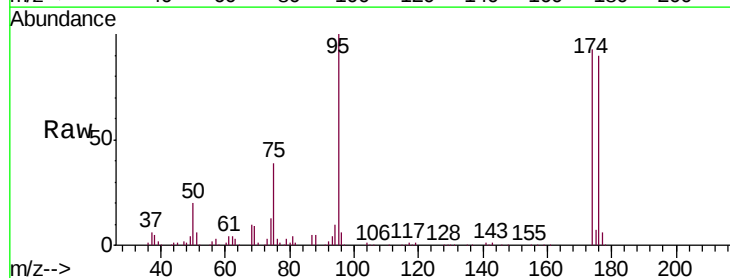
Tgt Ion: 95 Resp: 509196

Ion Ratio Lower Upper

95 100

174 92.9 0.0 169.2

176 90.0 0.0 168.0



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

500000

400000

300000

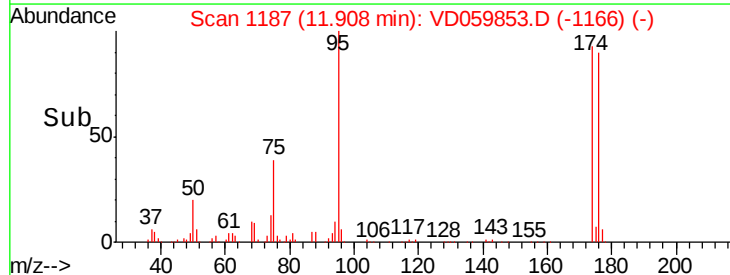
200000

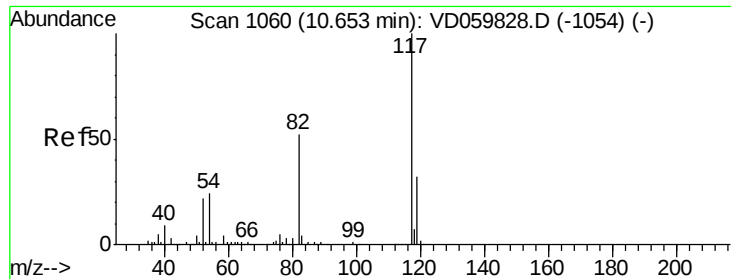
100000

0

11.80 11.90 12.00 12.10

Time-->

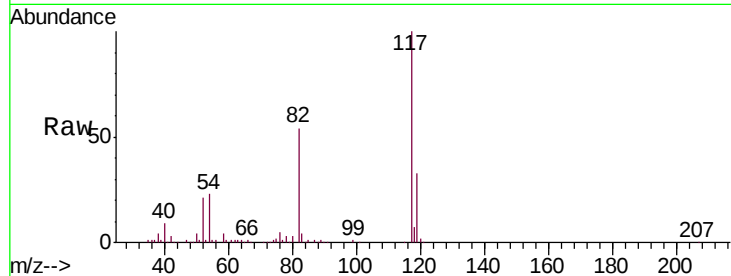




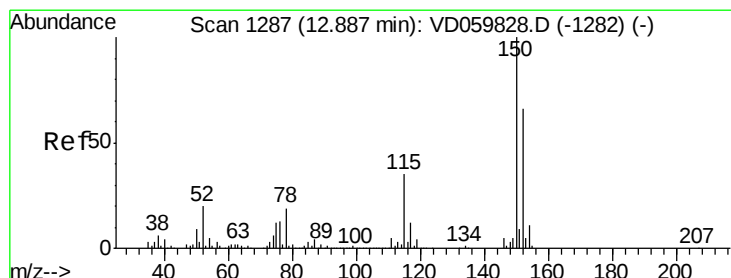
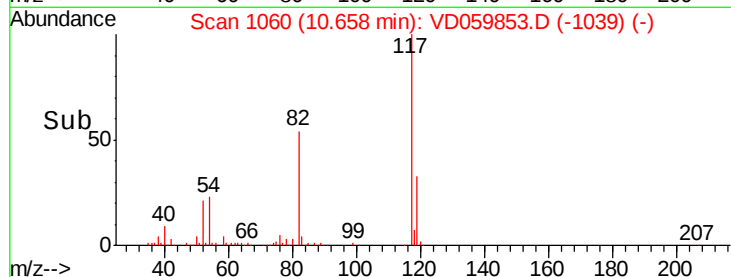
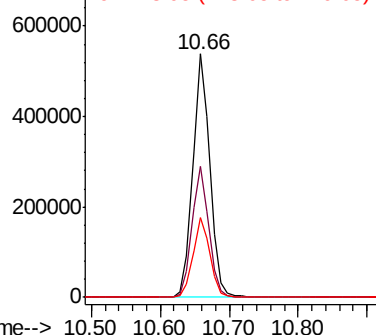
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.66 min Scan# 1060
Delta R.T. 0.01 min
Lab File: VD059853.D
Acq: 21 Aug 2018 14:00

Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-030

Tgt Ion:117 Resp: 923163
Ion Ratio Lower Upper
117 100
82 53.8 41.6 62.4
119 32.8 25.6 38.4

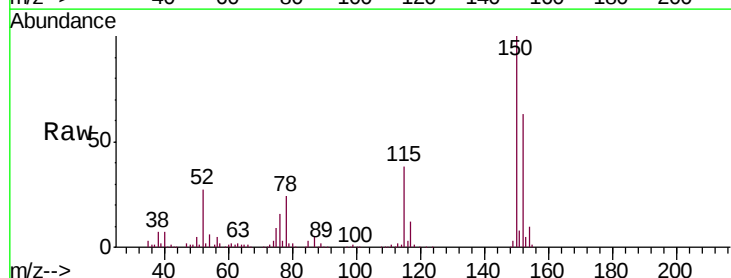


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

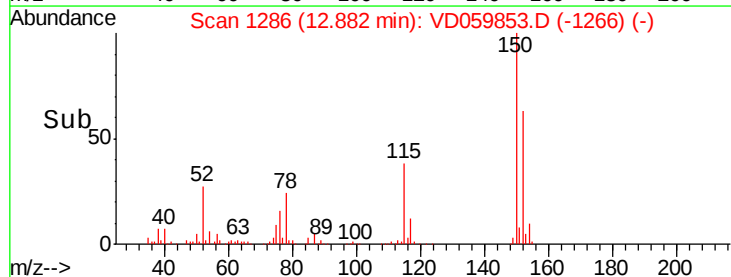
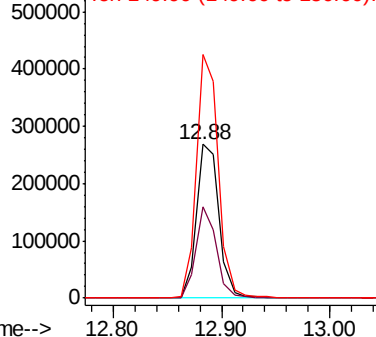


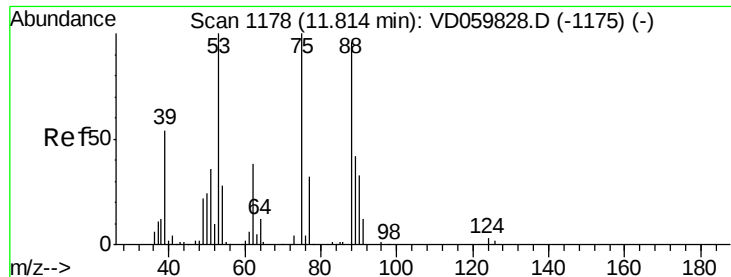
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.88 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VD059853.D
Acq: 21 Aug 2018 14:00

Tgt Ion:152 Resp: 390165
Ion Ratio Lower Upper
152 100
115 59.4 26.9 80.6
150 158.1 0.0 306.8



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: 99.390 ug/l

RT: 11.91 min Scan# 1187

Delta R.T. 0.09 min

Lab File: VD059853.D

Acq: 21 Aug 2018 14:00

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-030

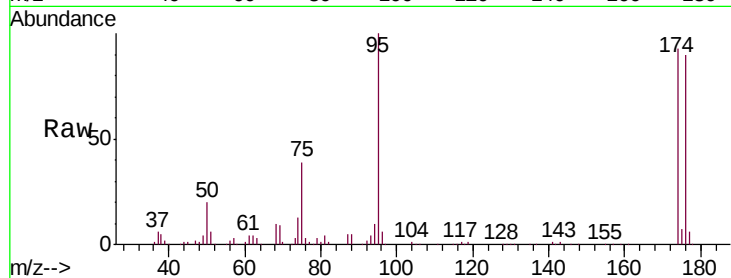
Tgt Ion: 75 Resp: 200552

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

