

Data File : VD059854.D
Acq On : 21 Aug 2018 14:29
Operator : JC/SY
Sample : J4511-09
Misc : 5.05g/5ml/MSVOA_D/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031

Quant Time: Aug 22 01:10:03 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	1037198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.65	114	1444213	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.66	117	1029185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.89	152	371338	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.98	65	403641	48.62	ug/l	0.01
Spiked Amount	50.000		Recovery	=	97.24%	
35) Dibromofluoromethane	5.51	113	530611	49.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.34%	
50) Toluene-d8	8.67	98	1323643	45.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.90%	
62) 4-Bromofluorobenzene	11.91	95	424575	38.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.82%	

Target Compounds

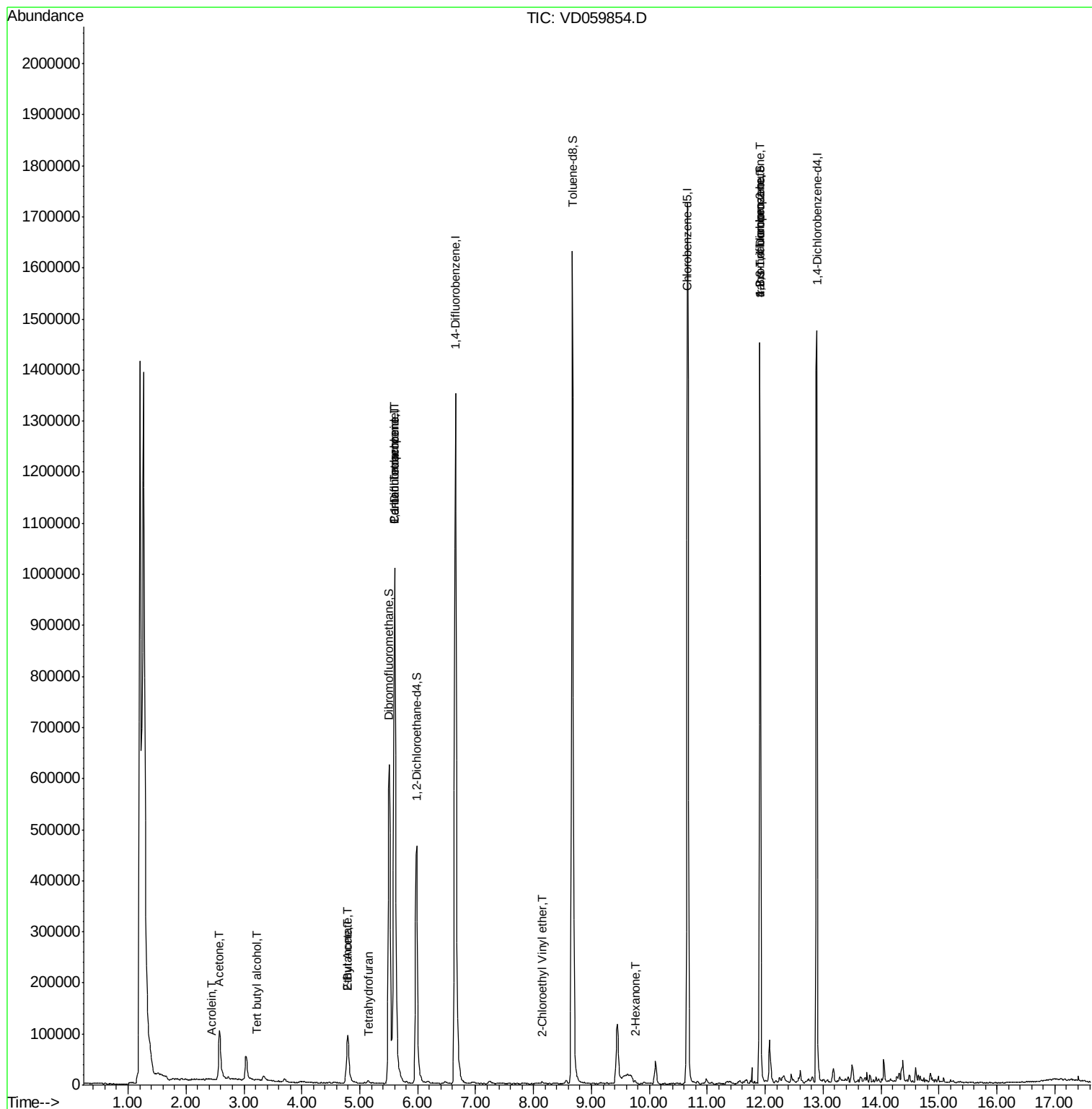
					Qvalue	
11) Tert butyl alcohol	3.23	59	375	1.222	ug/l #	67
13) Acrolein	2.46	56	1007	4.263	ug/l #	28
16) Acetone	2.58	43	180943	130.053	ug/l	98
17) Carbon Disulfide	2.72	76	3138	Below Cal	#	76
18) Methyl Acetate	2.91	43	1187	Below Cal	#	65
20) Methylene Chloride	3.04	84	22742	Below Cal		87
25) 2-Butanone	4.79	43	110219	26.209	ug/l	97
29) Tetrahydrofuran	5.15	42	5130	2.409	ug/l #	65
31) Cyclohexane	5.60	56	24733	Below Cal	#	1
36) 1,1-Dichloropropene	5.60	75	75385	6.155	ug/l #	47
37) Ethyl Acetate	4.79	43	102698	11.311	ug/l #	75
38) Carbon Tetrachloride	5.60	117	85510	6.995	ug/l #	15
58) 2-Chloroethyl Vinyl ether	8.16	63	1772	9.810	ug/l #	51
59) 2-Hexanone	9.75	43	6828	1.100	ug/l	99
67) Ethyl Benzene	10.83	91	3384	Below Cal		91
76) 1,2,3-Trichloropropane	11.91	75	124017	20.187	ug/l #	46
80) 1,3,5-Trimethylbenzene	12.30	105	3808	Below Cal		98
81) trans-1,4-Dichloro-2-buten	11.91	75	172212	89.672	ug/l #	10
82) 4-Chlorotoluene	12.30	91	3152	Below Cal		98
89) n-Butylbenzene	13.18	91	4022	Below Cal		90
91) 1,2-Dichlorobenzene	13.18	146	1348	Below Cal	#	80

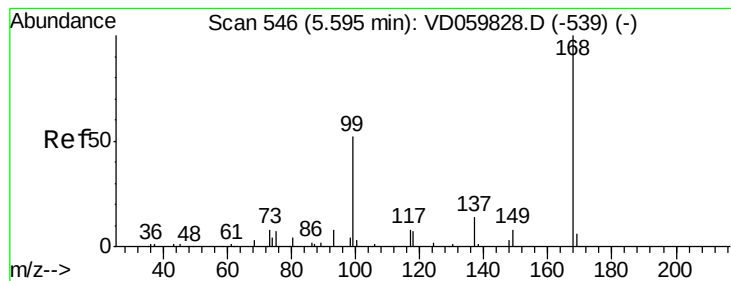
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 546

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

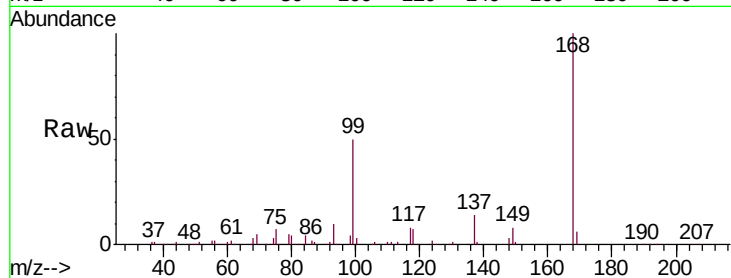
RA-081518-FL-031

Tgt Ion:168 Resp: 1037198

Ion Ratio Lower Upper

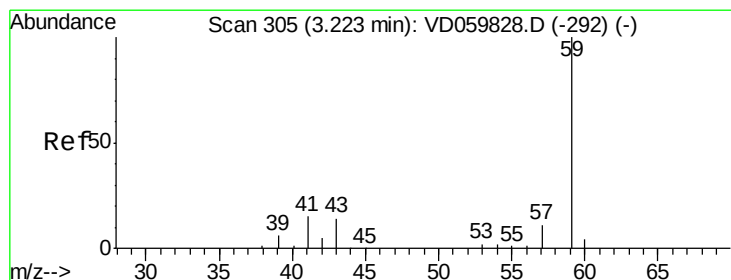
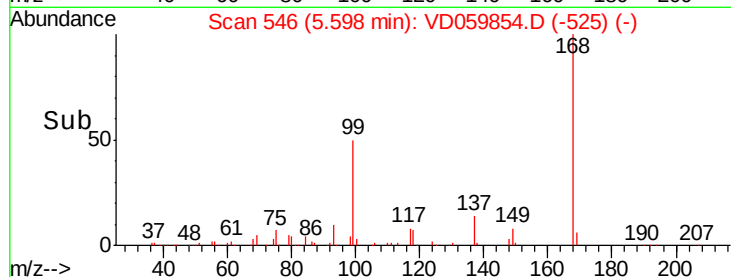
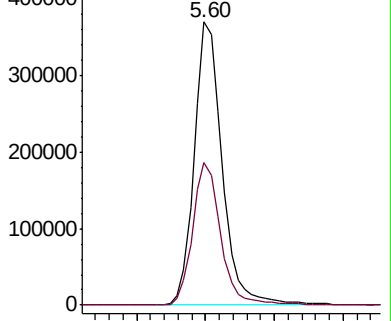
168 100

99 50.4 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: 1.222 ug/l

RT: 3.23 min Scan# 305

Delta R.T. 0.00 min

Lab File: VD059854.D

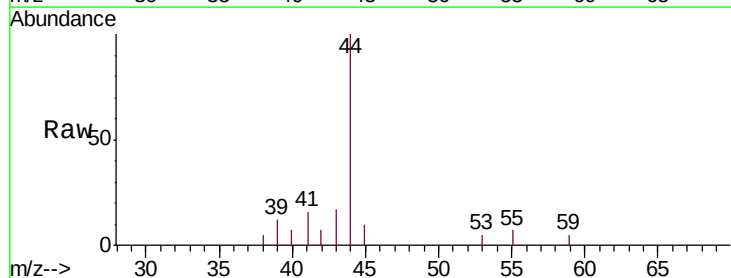
Acq: 21 Aug 2018 14:29

Tgt Ion: 59 Resp: 375

Ion Ratio Lower Upper

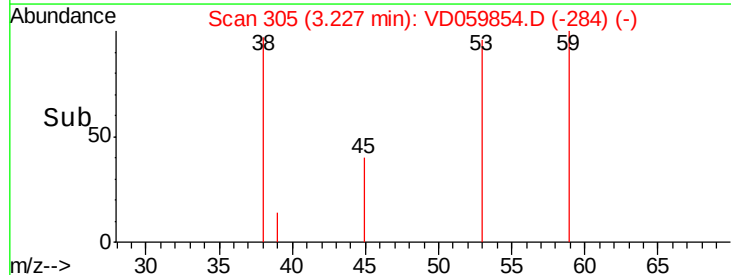
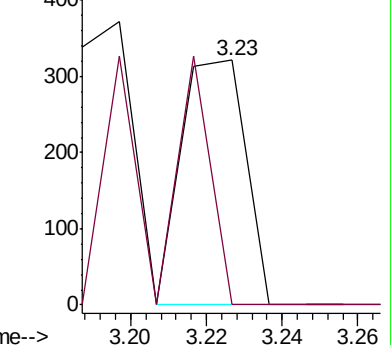
59 100

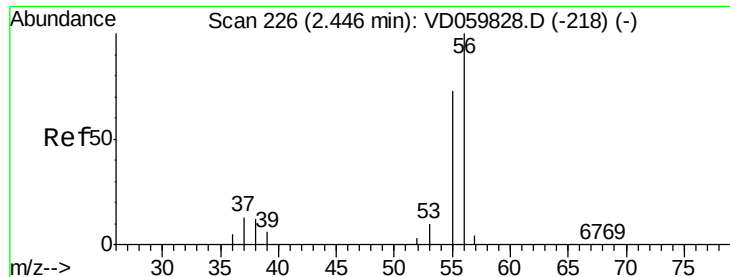
57 0.0 10.3 15.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 4.263 ug/l

RT: 2.46 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

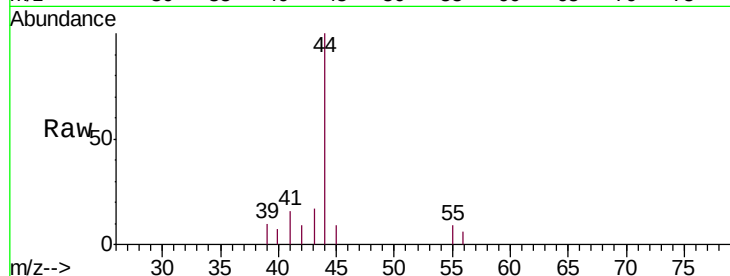
RA-081518-FL-031

Tgt Ion: 56 Resp: 1007

Ion Ratio Lower Upper

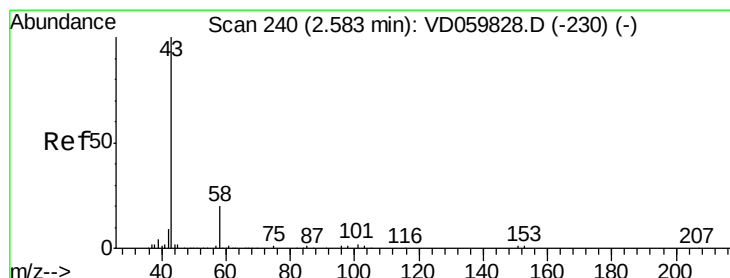
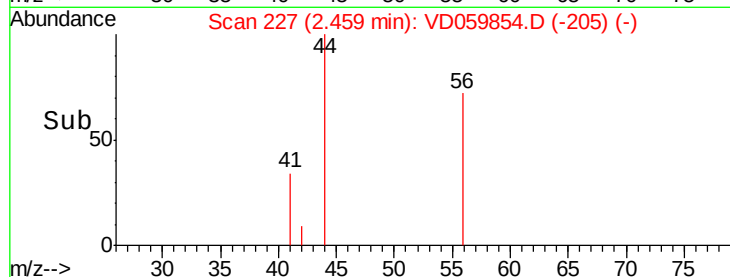
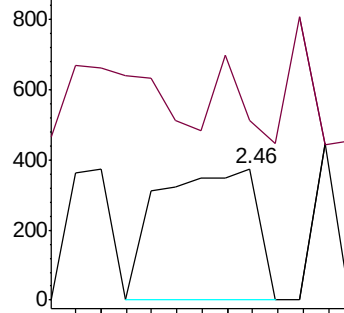
56 100

55 137.2 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: 130.053 ug/l

RT: 2.58 min Scan# 239

Delta R.T. -0.01 min

Lab File: VD059854.D

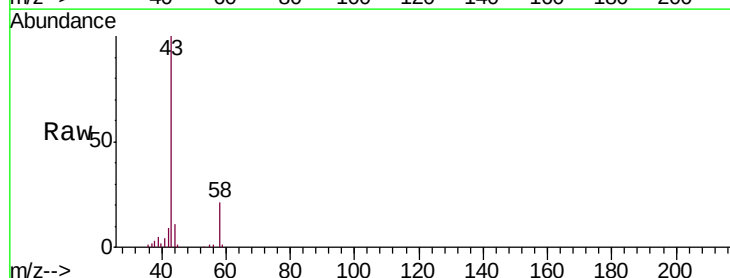
Acq: 21 Aug 2018 14:29

Tgt Ion: 43 Resp: 180943

Ion Ratio Lower Upper

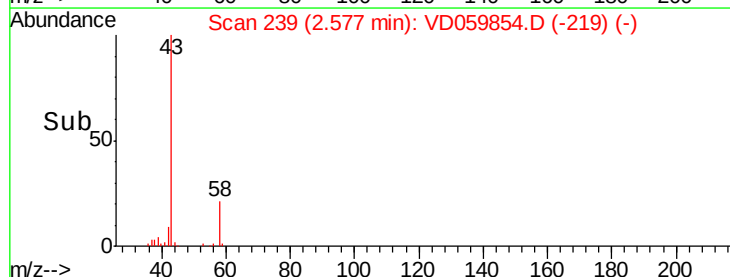
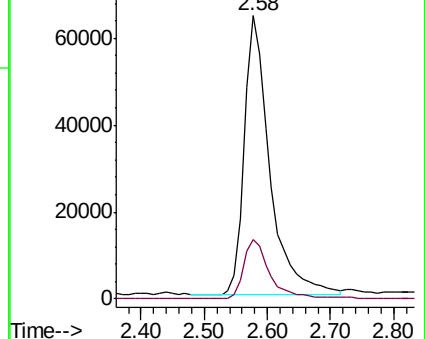
43 100

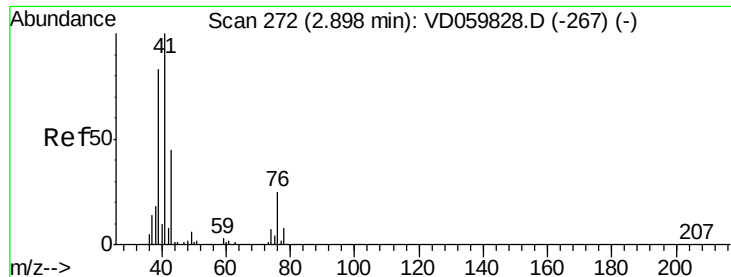
58 20.9 16.2 24.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

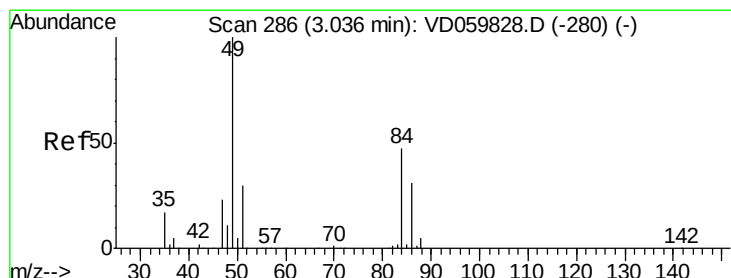
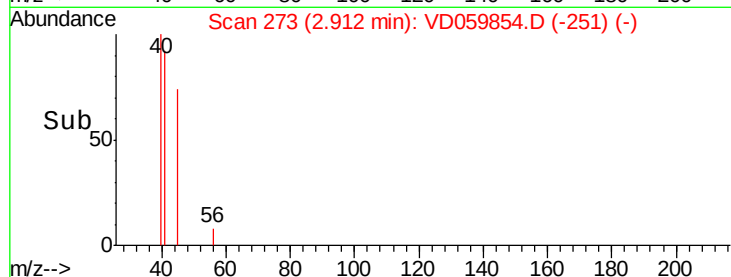
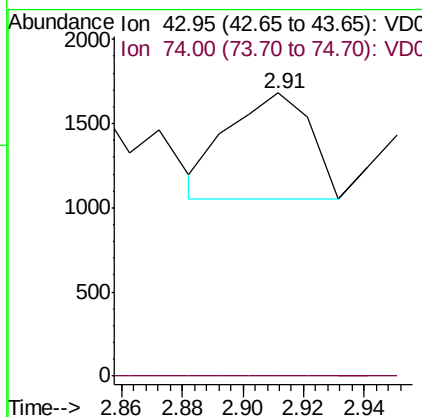
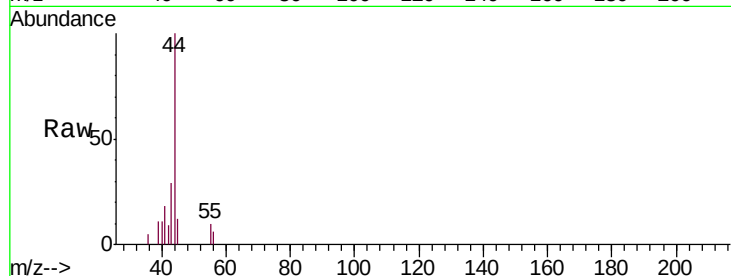




#18
Methyl Acetate
Concen: Below Cal
RT: 2.91 min Scan# 273
Delta R.T. 0.01 min
Lab File: VD059854.D
Acq: 21 Aug 2018 14:29

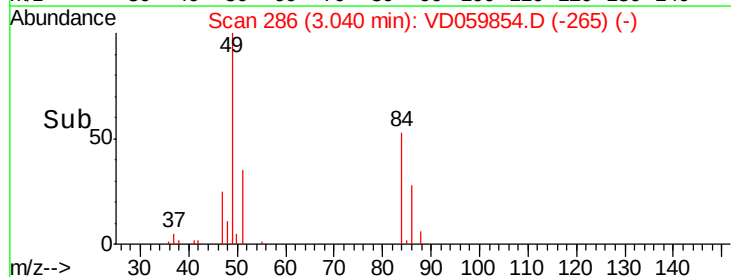
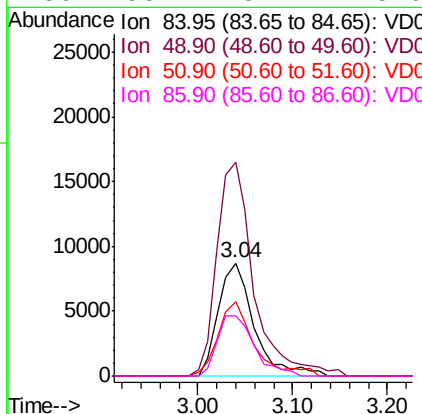
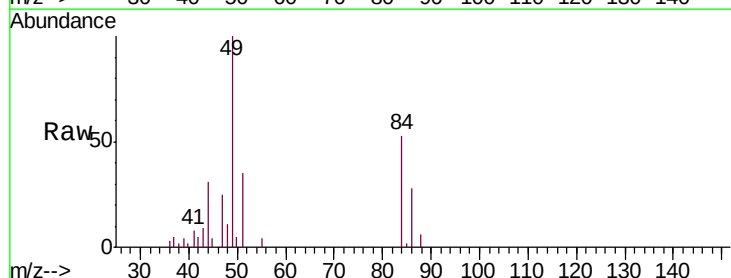
Instrument :
MSVOA_D
ClientSampleId :
RA-081518-FL-031

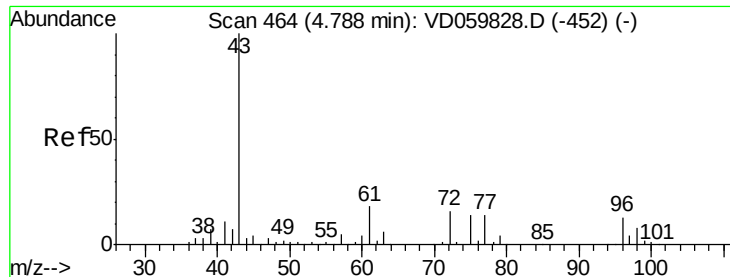
Tgt Ion: 43 Resp: 1187
Ion Ratio Lower Upper
43 100
74 0.0 11.4 17.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.04 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD059854.D
Acq: 21 Aug 2018 14:29

Tgt Ion: 84 Resp: 22742
Ion Ratio Lower Upper
84 100
49 188.6 170.4 255.6
51 65.8 51.4 77.0
86 53.1 52.4 78.6





#25

2-Butanone

Concen: 26.209 ug/l

RT: 4.79 min Scan# 464

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

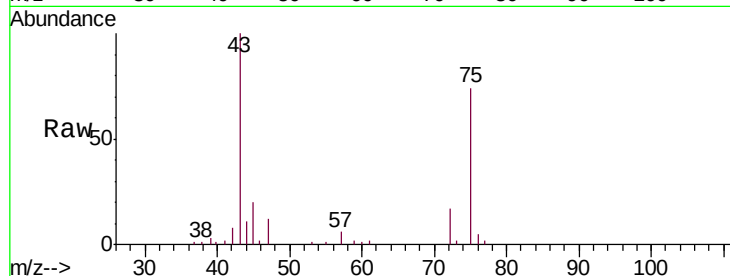
RA-081518-FL-031

Tgt Ion: 43 Resp: 110219

Ion Ratio Lower Upper

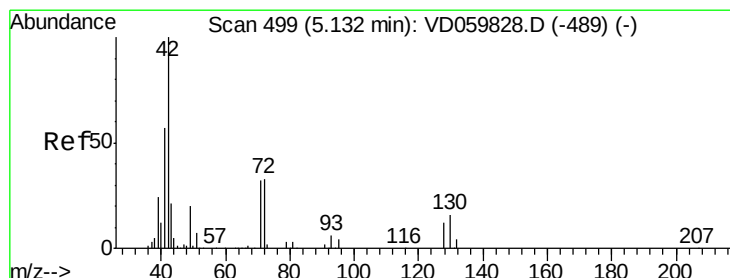
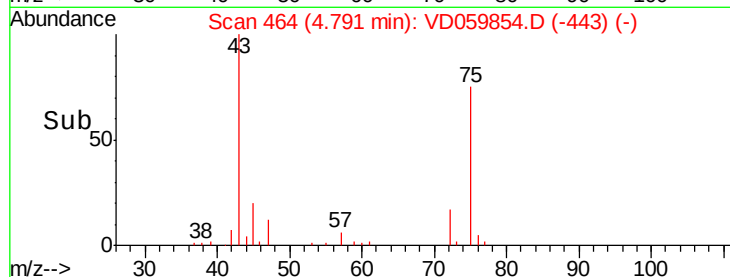
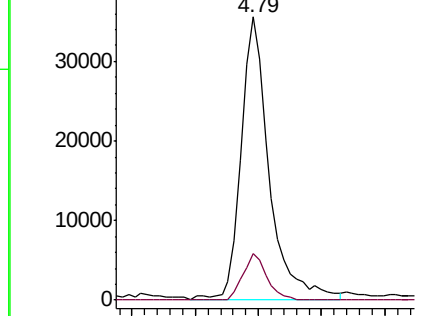
43 100

72 16.6 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 2.409 ug/l

RT: 5.15 min Scan# 500

Delta R.T. 0.01 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

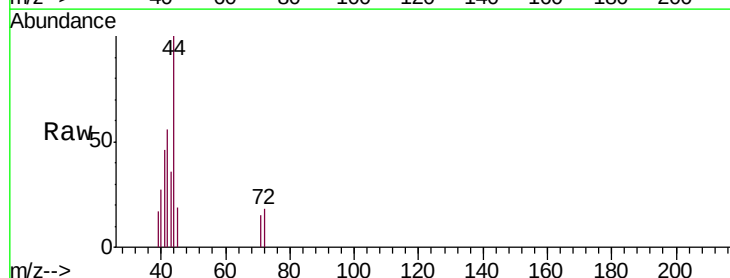
Tgt Ion: 42 Resp: 5130

Ion Ratio Lower Upper

42 100

72 14.7 25.8 38.6#

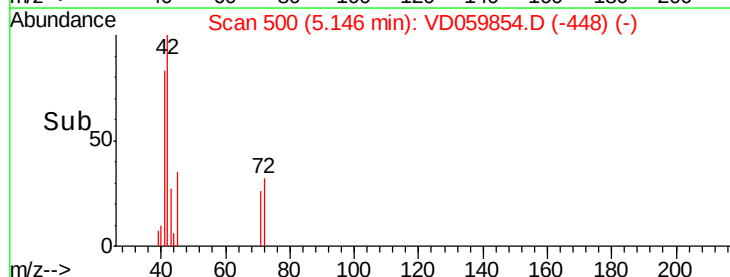
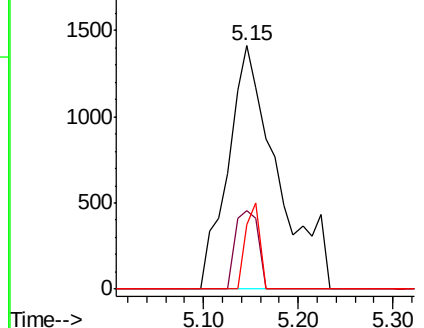
71 10.0 25.7 38.5#

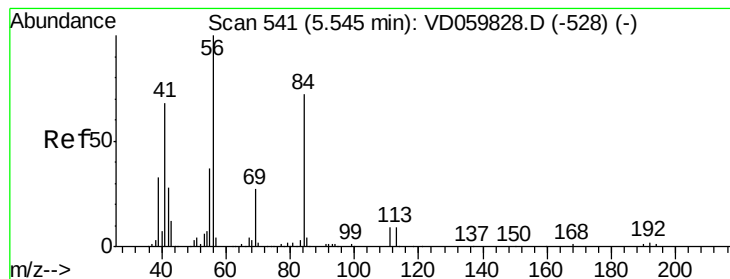


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 5.60 min Scan# 546

Delta R.T. 0.05 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031

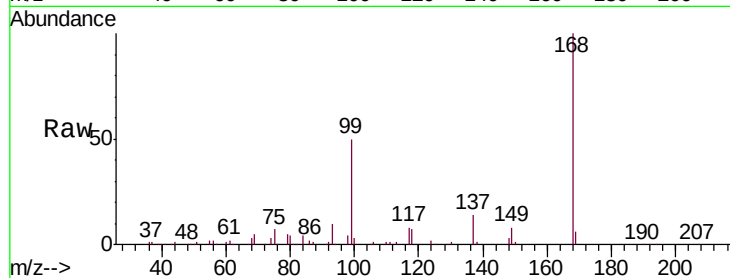
Tgt Ion: 56 Resp: 24733

Ion Ratio Lower Upper

56 100

69 220.8 21.7 32.5#

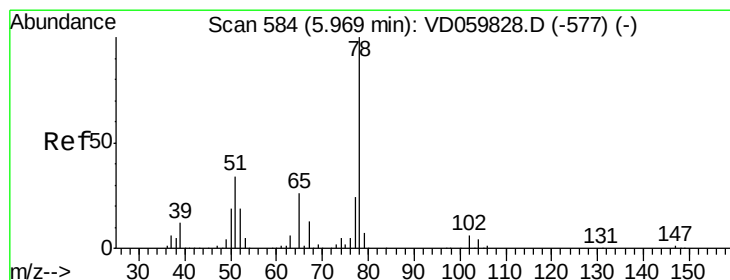
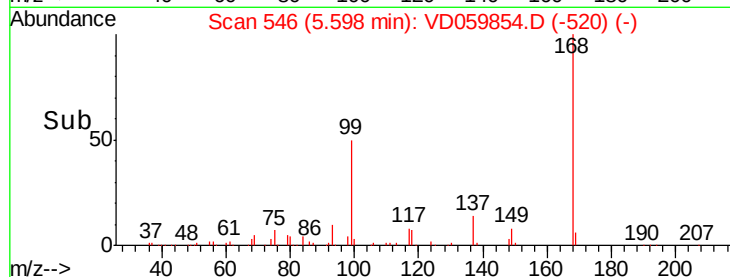
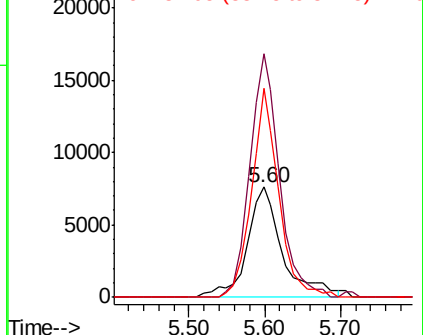
84 190.2 57.8 86.6#



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: VD059854.D

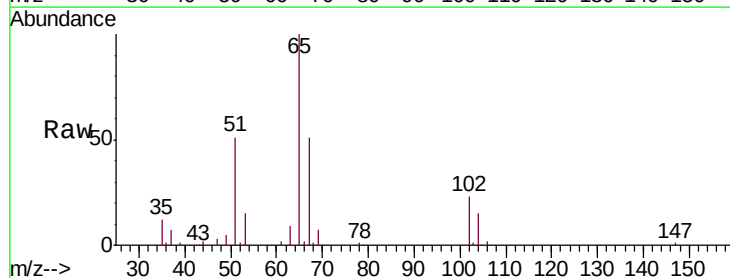
Acq: 21 Aug 2018 14:29

Tgt Ion: 65 Resp: 403641

Ion Ratio Lower Upper

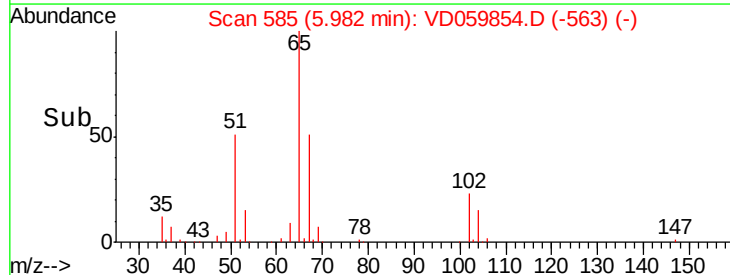
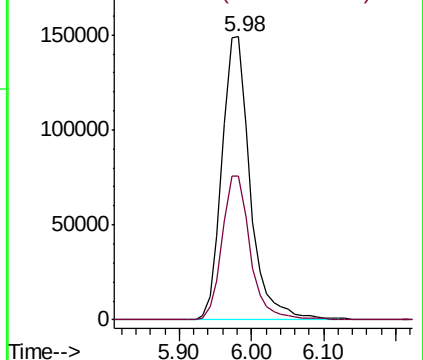
65 100

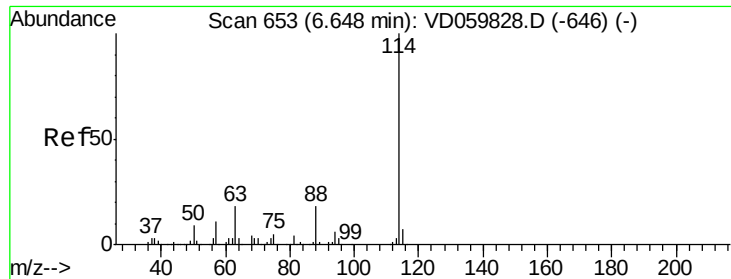
67 50.9 0.0 102.4



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. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

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RA-081518-FL-031

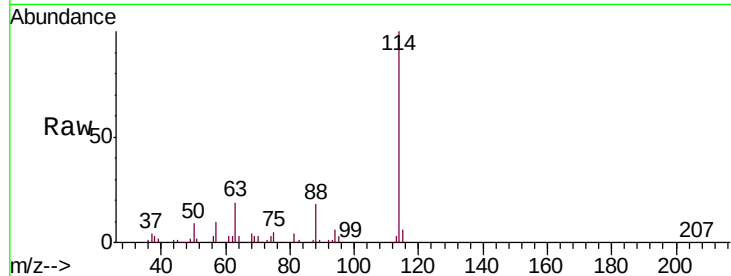
Tgt Ion:114 Resp: 1444213

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.0

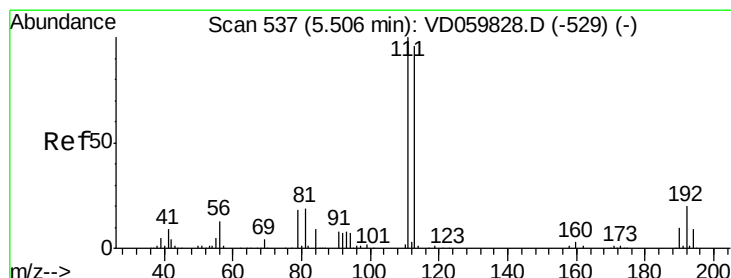
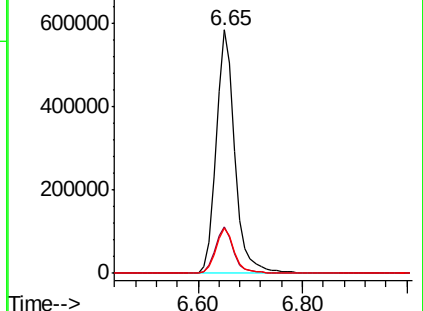
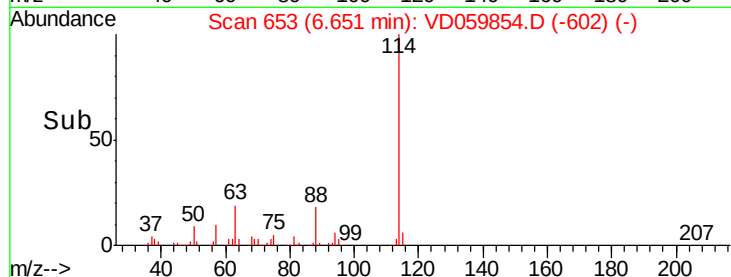
88 18.4 0.0 37.0



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: VD059854.D

Acq: 21 Aug 2018 14:29

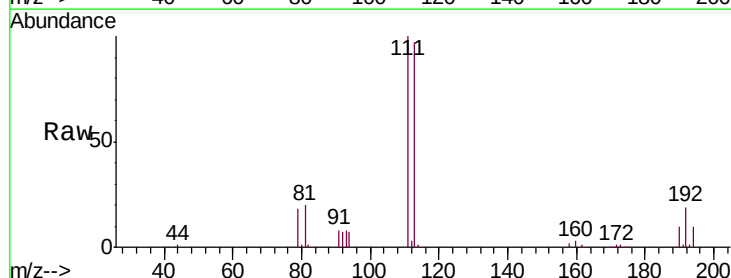
Tgt Ion:113 Resp: 530611

Ion Ratio Lower Upper

113 100

111 103.1 83.3 124.9

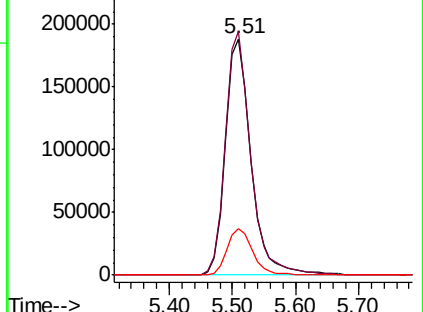
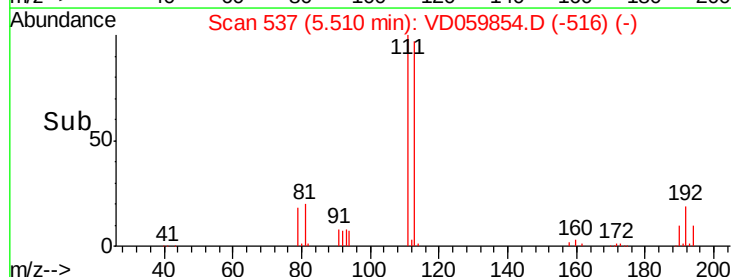
192 19.9 16.8 25.2

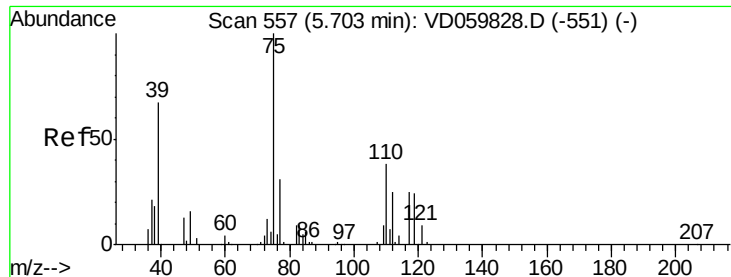


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

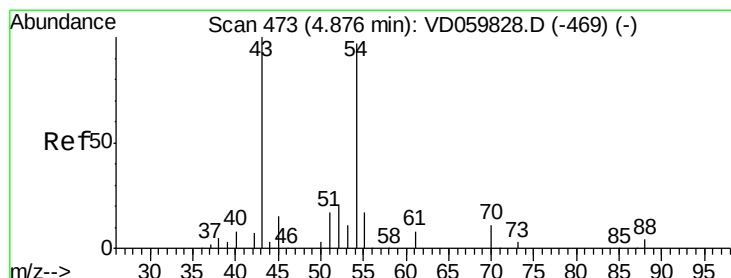
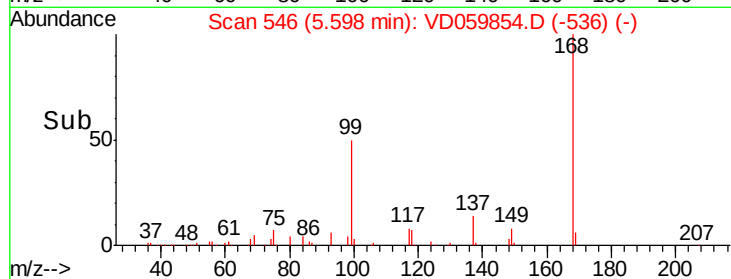
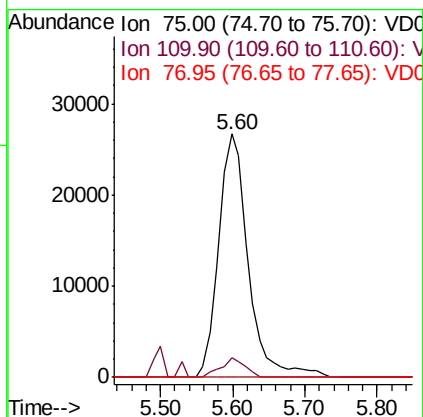
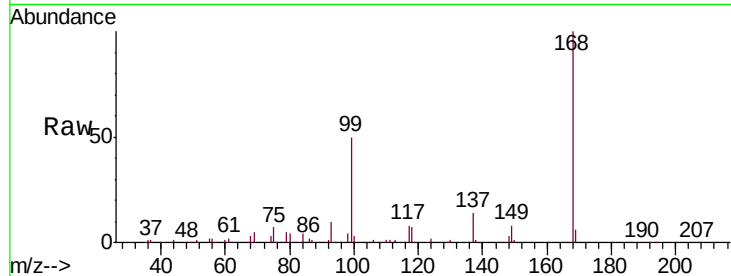




#36
 1,1-Dichloropropene
 Concen: 6.155 ug/l
 RT: 5.60 min Scan# 546
 Delta R.T. -0.10 min
 Lab File: VD059854.D
 Acq: 21 Aug 2018 14:29

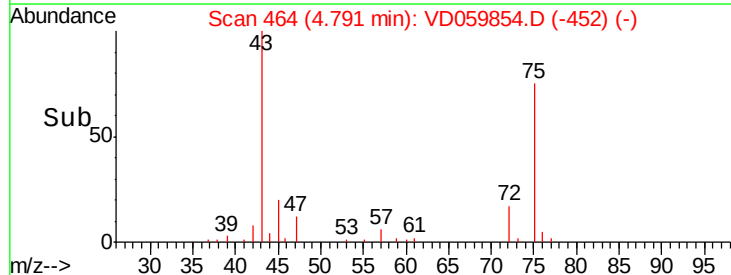
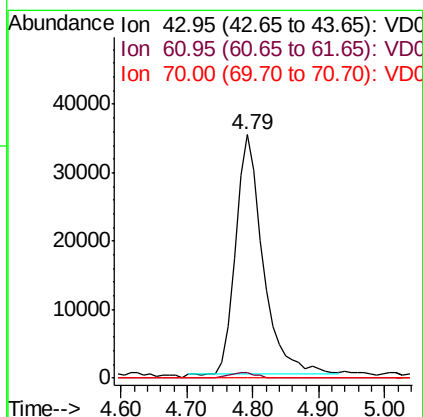
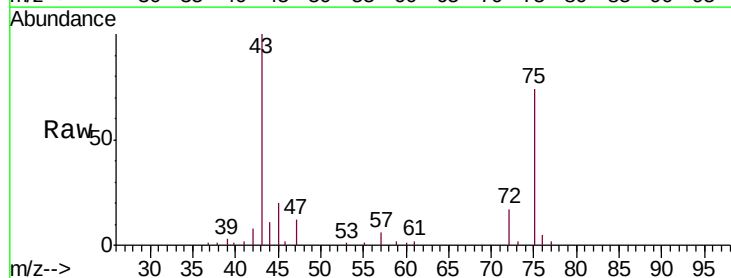
Instrument :
 MSVOA_D
 ClientSampled :
 RA-081518-FL-031

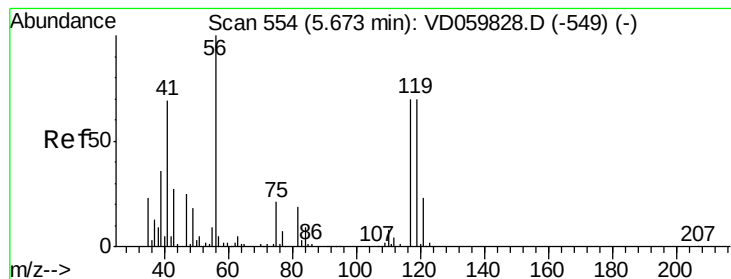
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.8	56.4#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 11.311 ug/l
 RT: 4.79 min Scan# 464
 Delta R.T. -0.09 min
 Lab File: VD059854.D
 Acq: 21 Aug 2018 14:29

Tgt Ion	Ratio	Lower	Upper
43	100		
61	2.3	10.4	15.6#
70	0.0	6.2	9.2#





#38

Carbon Tetrachloride

Concen: 6.995 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.08 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031

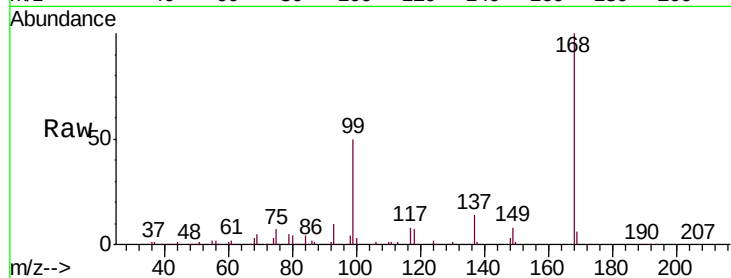
Tgt Ion:117 Resp: 85510

Ion Ratio Lower Upper

117 100

119 4.5 77.0 115.4#

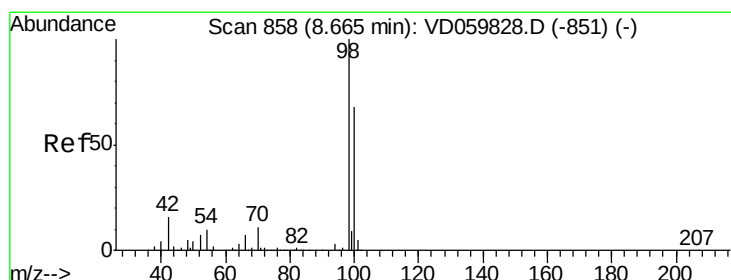
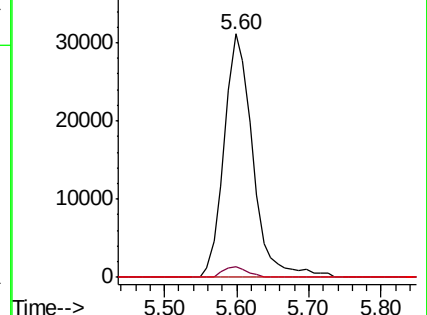
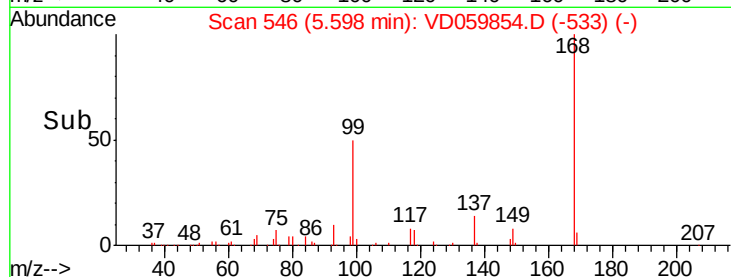
121 0.0 24.7 37.1#



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. 0.00 min

Lab File: VD059854.D

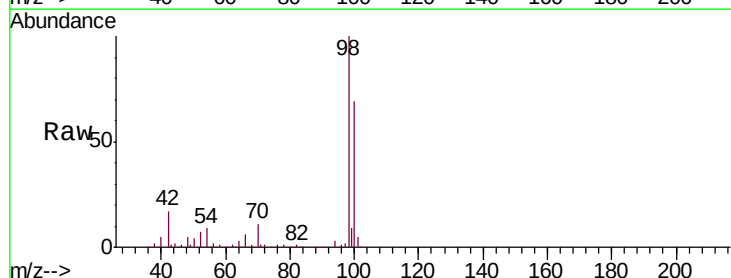
Acq: 21 Aug 2018 14:29

Tgt Ion: 98 Resp: 1323643

Ion Ratio Lower Upper

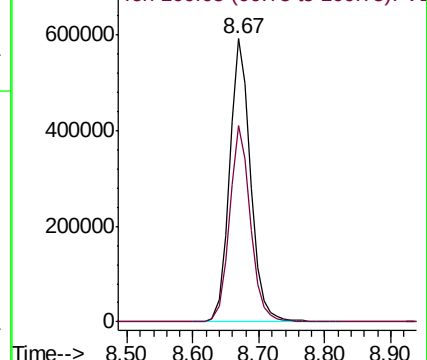
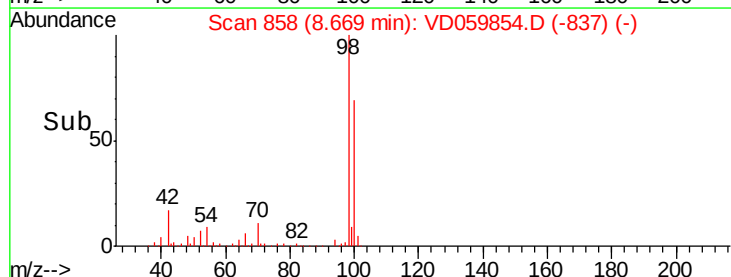
98 100

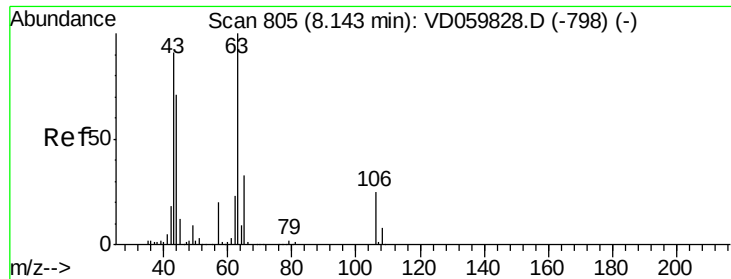
100 69.4 55.0 82.4



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: 9.810 ug/l

RT: 8.16 min Scan# 806

Delta R.T. 0.01 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

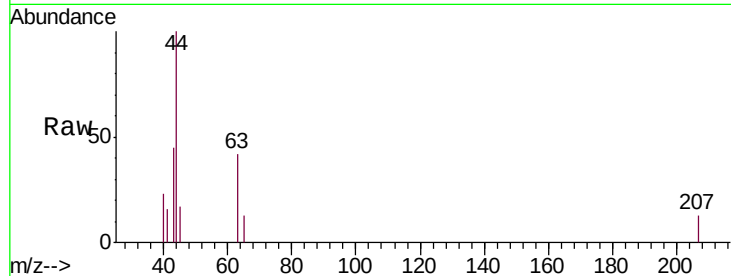
RA-081518-FL-031

Tgt Ion: 63 Resp: 1772

Ion Ratio Lower Upper

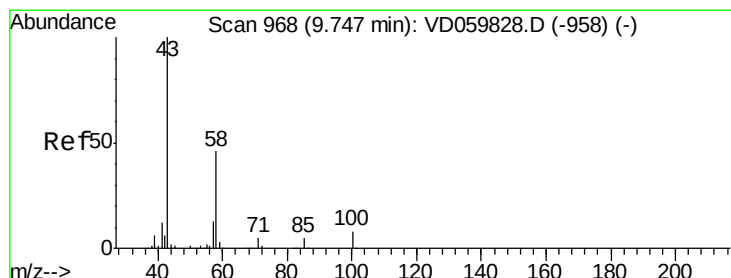
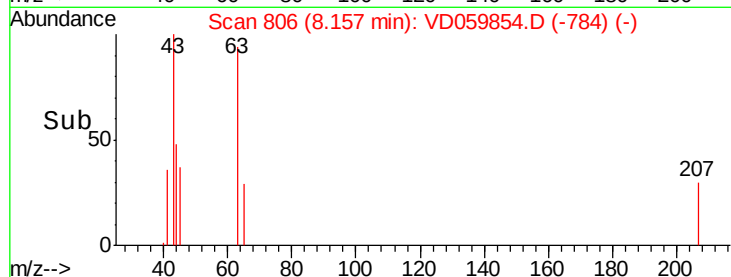
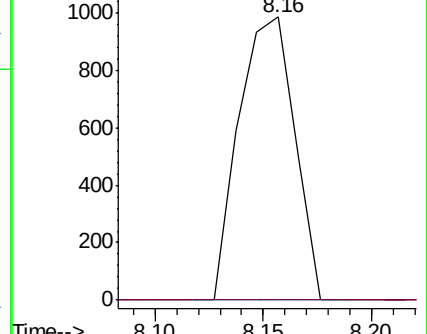
63 100

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): VDC



#59

2-Hexanone

Concen: 1.100 ug/l

RT: 9.75 min Scan# 968

Delta R.T. 0.00 min

Lab File: VD059854.D

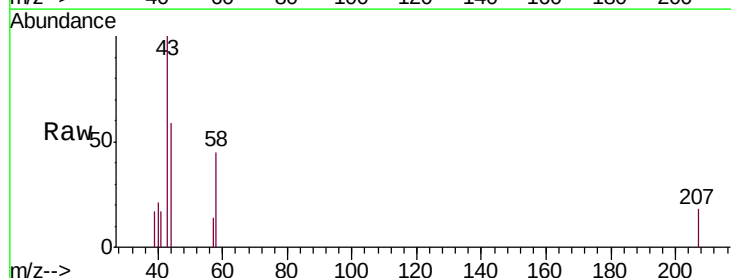
Acq: 21 Aug 2018 14:29

Tgt Ion: 43 Resp: 6828

Ion Ratio Lower Upper

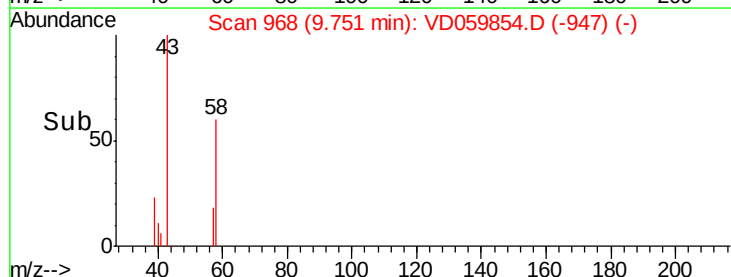
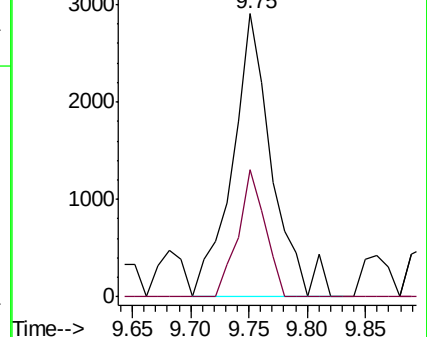
43 100

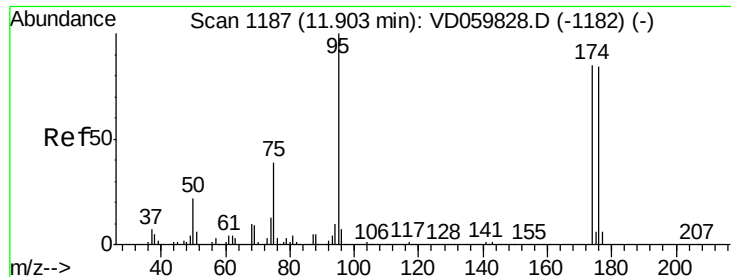
58 45.2 23.1 69.2



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: 11.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031

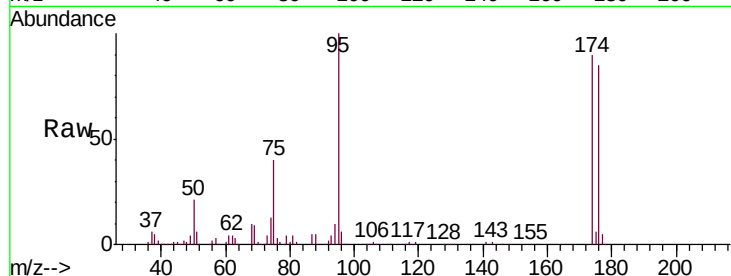
Tgt Ion: 95 Resp: 424575

Ion Ratio Lower Upper

95 100

174 89.5 0.0 169.2

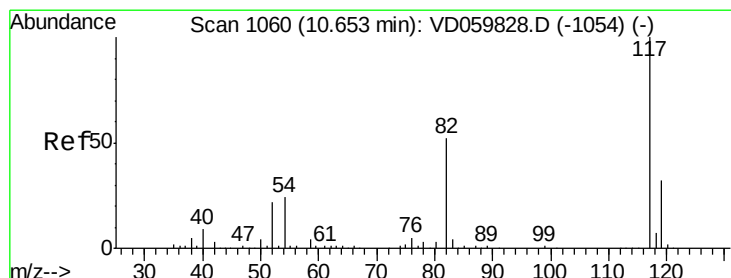
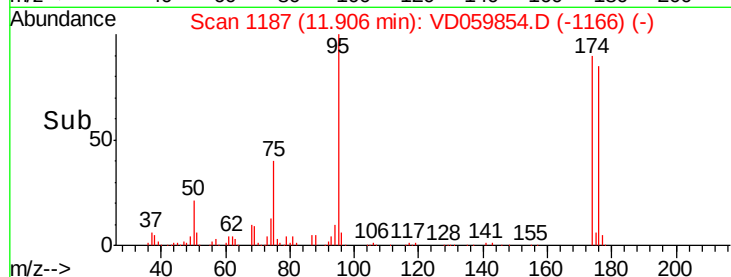
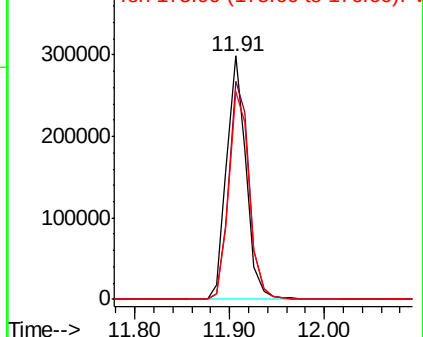
176 85.1 0.0 168.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.66 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

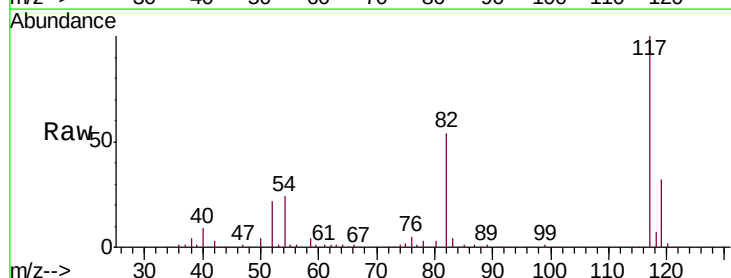
Tgt Ion: 117 Resp: 1029185

Ion Ratio Lower Upper

117 100

82 54.0 41.6 62.4

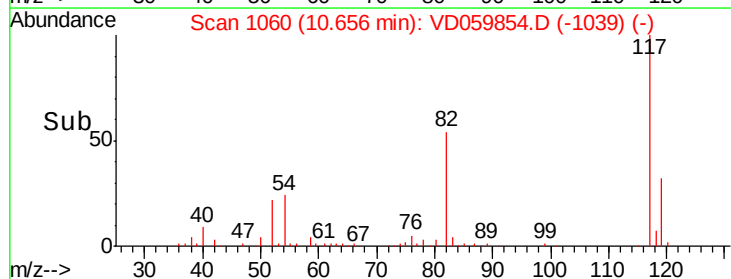
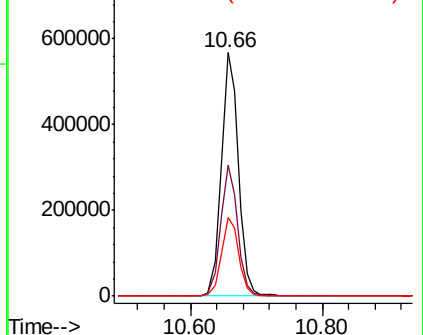
119 32.2 25.6 38.4

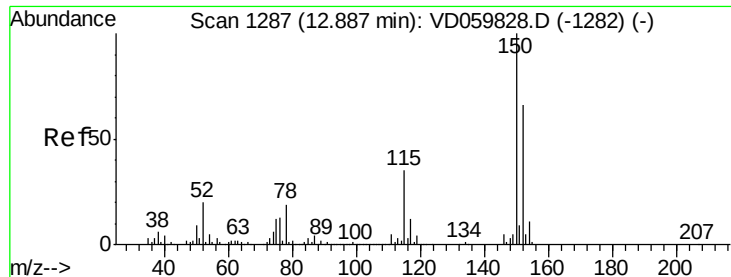


Abundance Ion 116.95 (116.65 to 117.65): V

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: 12.89 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031

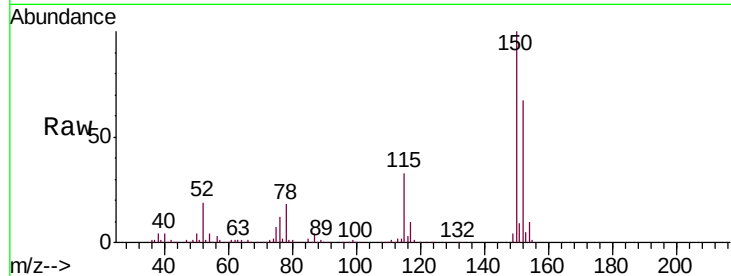
Tgt Ion:152 Resp: 371338

Ion Ratio Lower Upper

152 100

115 49.1 26.9 80.6

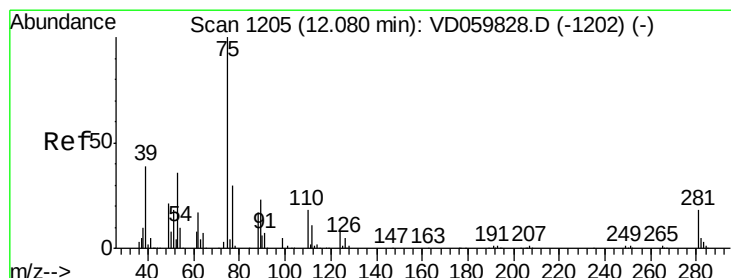
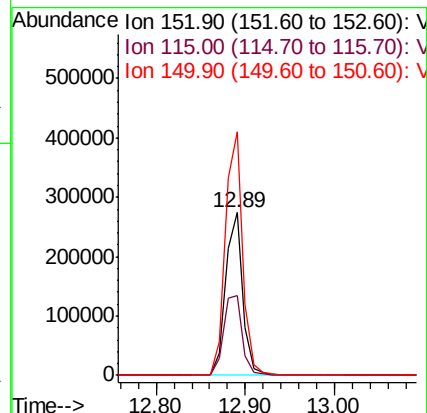
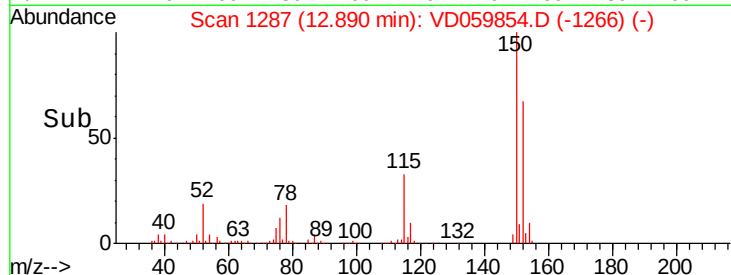
150 149.8 0.0 306.8



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



#76

1,2,3-Trichloropropane

Concen: 20.187 ug/l

RT: 11.91 min Scan# 1187

Delta R.T. -0.17 min

Lab File: VD059854.D

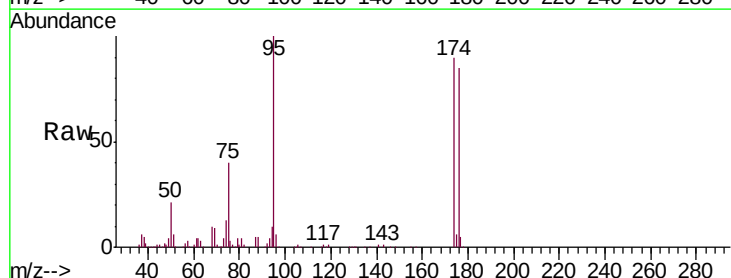
Acq: 21 Aug 2018 14:29

Tgt Ion: 75 Resp: 124017

Ion Ratio Lower Upper

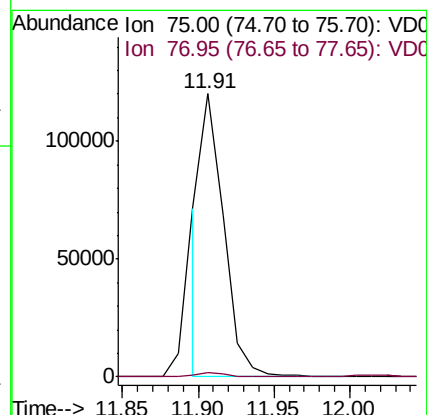
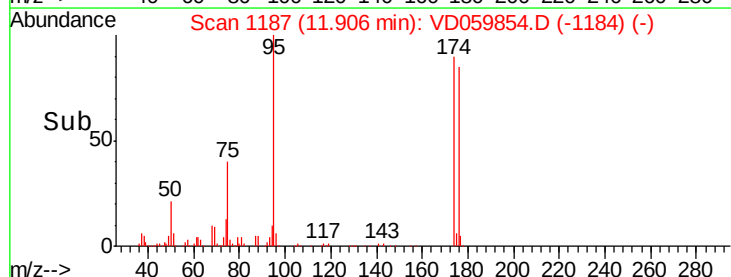
75 100

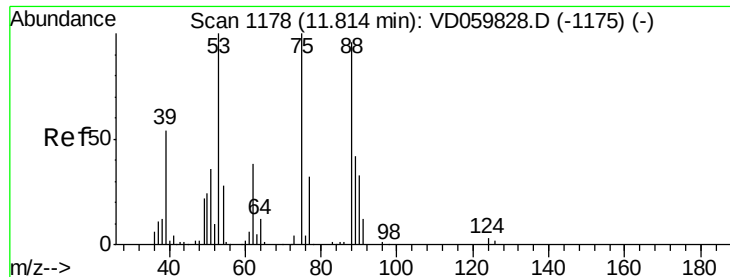
77 1.6 16.0 47.9#



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: 89.672 ug/l

RT: 11.91 min Scan# 1187

Delta R.T. 0.09 min

Lab File: VD059854.D

Acq: 21 Aug 2018 14:29

Instrument :

MSVOA_D

ClientSampleId :

RA-081518-FL-031

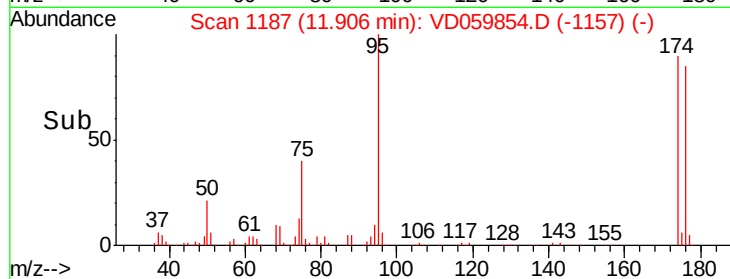
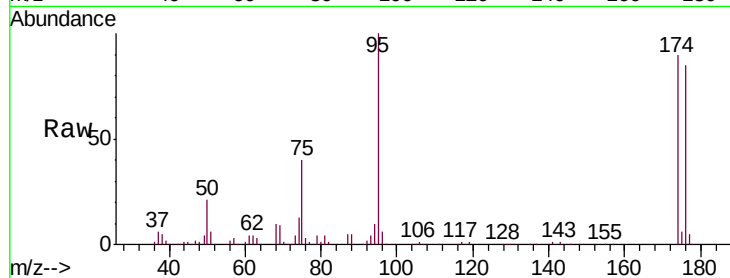
Tgt Ion: 75 Resp: 172212

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

