

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
 Data File : VD058233.D
 Acq On : 21 Jun 2018 4:06
 Operator : VA/AP
 Sample : J3247-05
 Misc : 6.28g/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-061918

Quant Time: Jun 21 05:18:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	672450	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	891741	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	637567	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	332690	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	378282	55.69	ug/l	0.01
Spiked Amount 50.000			Recovery =	111.38%		
35) Dibromofluoromethane	5.56	113	384086	52.92	ug/l	0.01
Spiked Amount 50.000			Recovery =	105.84%		
50) Toluene-d8	8.72	98	771565	43.94	ug/l	0.01
Spiked Amount 50.000			Recovery =	87.88%		
62) 4-Bromofluorobenzene	11.94	95	333564	46.50	ug/l	0.01
Spiked Amount 50.000			Recovery =	93.00%		

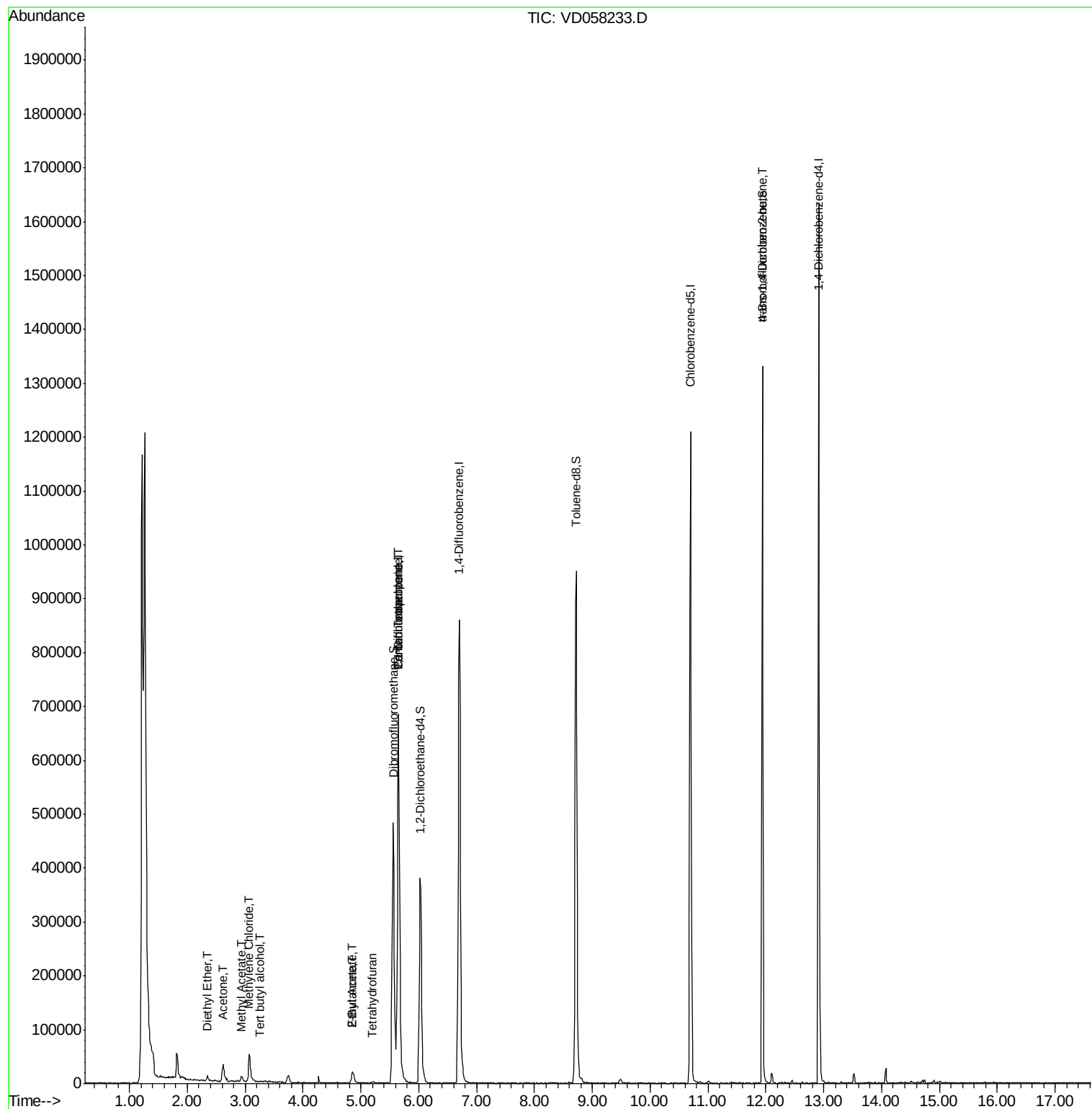
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.34	85	289	Below Cal	#	43
3) Chloromethane	1.50	50	217	Below Cal	#	43
8) Diethyl Ether	2.35	74	1680	1.644	ug/l	43
11) Tert butyl alcohol	3.27	59	430	1.919	ug/l #	78
16) Acetone	2.62	43	63056	67.883	ug/l #	90
18) Methyl Acetate	2.94	43	17567	8.868	ug/l	94
20) Methylene Chloride	3.07	84	22505	4.991	ug/l	91
25) 2-Butanone	4.85	43	7657	3.782	ug/l	94
29) Tetrahydrofuran	5.21	42	1378	1.279	ug/l #	83
31) Cyclohexane	5.65	56	14708	Below Cal	#	1
36) 1,1-Dichloropropene	5.65	75	56709	6.428	ug/l #	50
37) Ethyl Acetate	4.85	43	7657	1.523	ug/l #	88
38) Carbon Tetrachloride	5.65	117	52535	5.994	ug/l #	14
81) trans-1,4-Dichloro-2-buten	11.94	75	163856	138.313	ug/l #	1
82) 4-Chlorotoluene	12.33	91	758	Below Cal	#	45

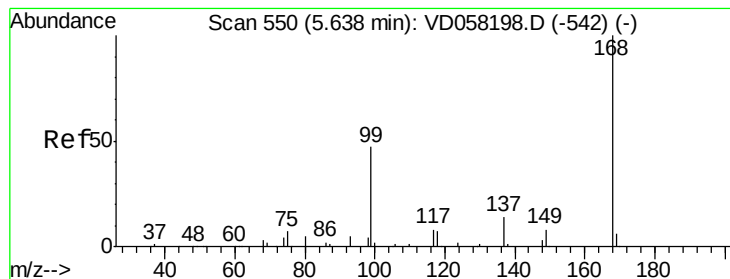
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058233.D

Acq: 21 Jun 2018 4:06

Instrument :

MSVOA_D

ClientSampleId :

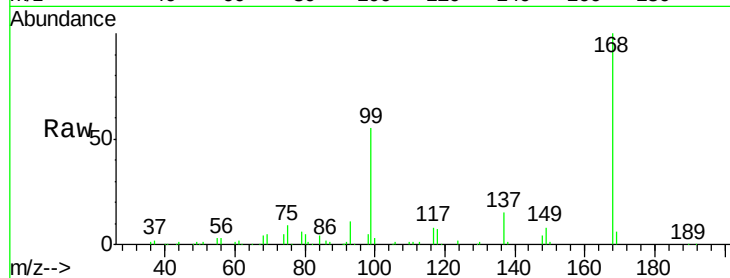
OR-01-061918

Tot Ion:168 Resp: 672450

Ion Ratio Lower Upper

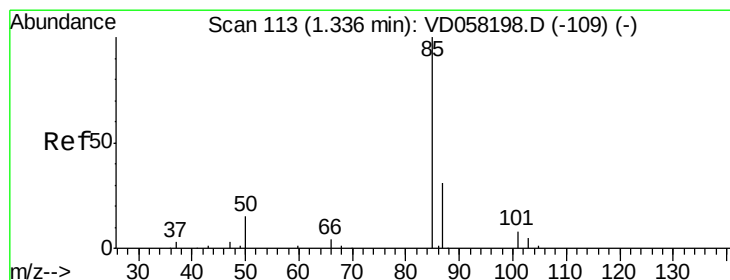
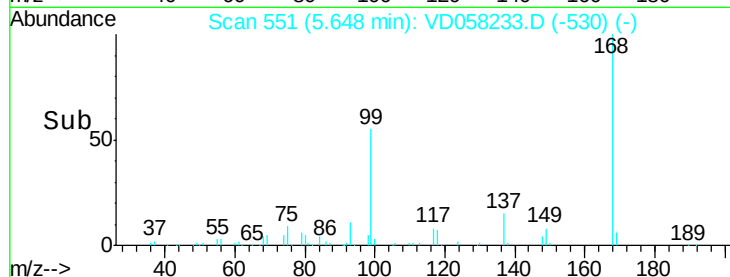
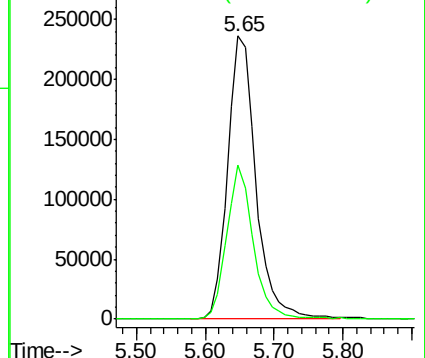
168 100

99 54.6 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.34 min Scan# 113

Delta R.T. 0.00 min

Lab File: VD058233.D

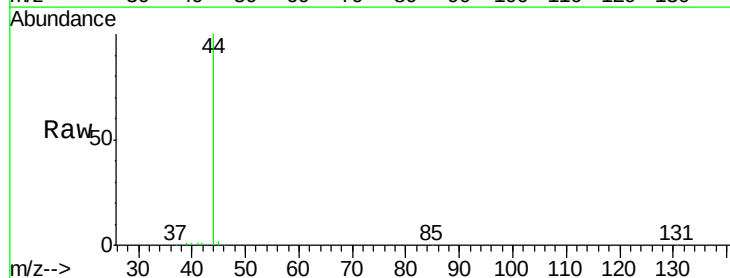
Acq: 21 Jun 2018 4:06

Tgt Ion: 85 Resp: 289

Ion Ratio Lower Upper

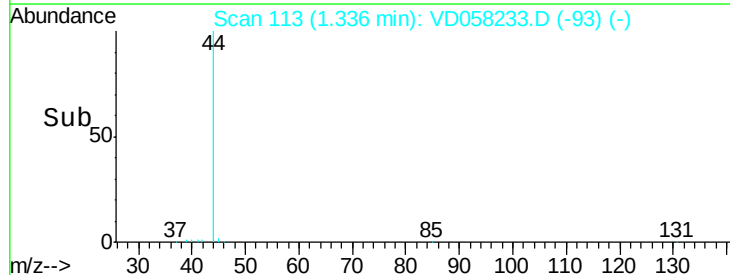
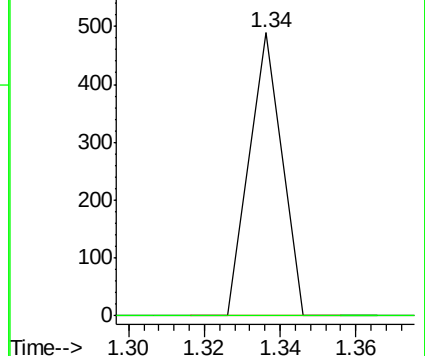
85 100

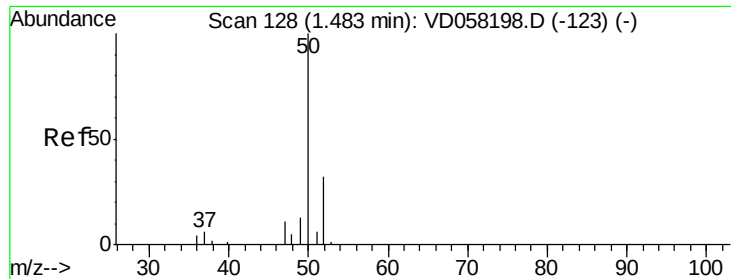
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

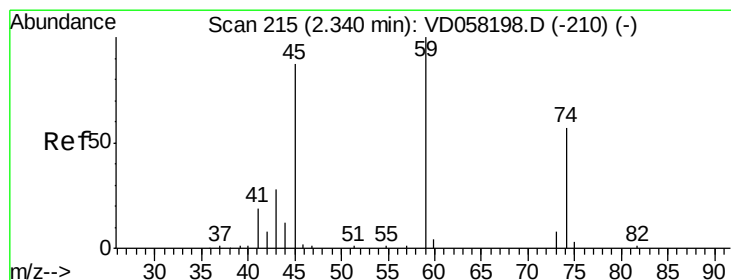
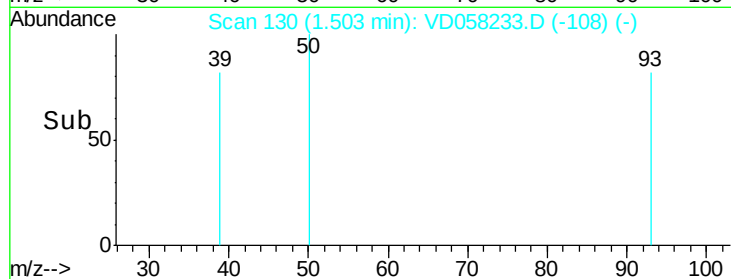
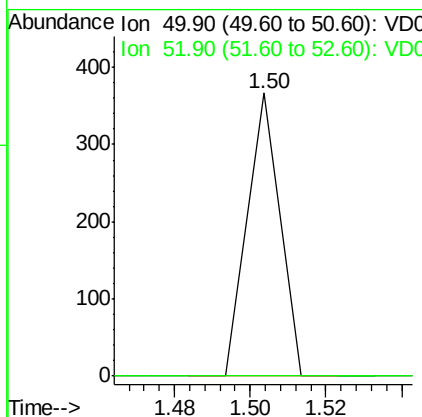
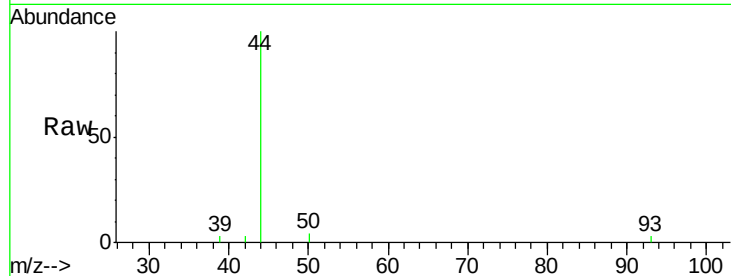




#3
Chloromethane
Concen: Below Cal
RT: 1.50 min Scan# 130
Delta R.T. 0.02 min
Lab File: VD058233.D
Acq: 21 Jun 2018 4:06

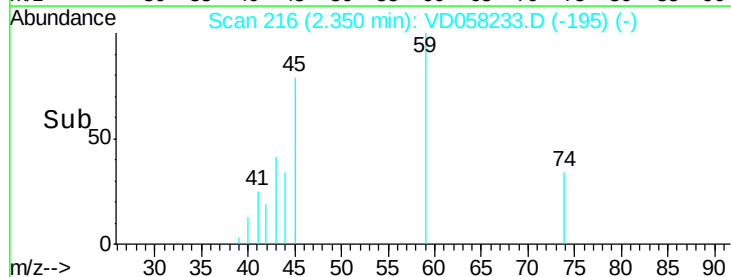
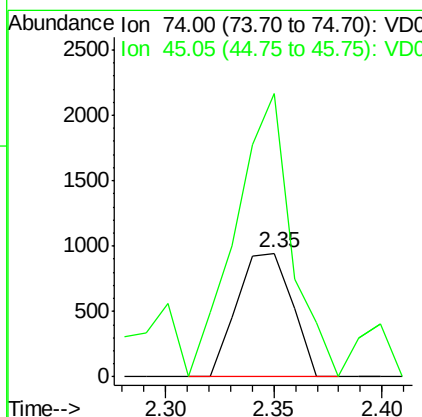
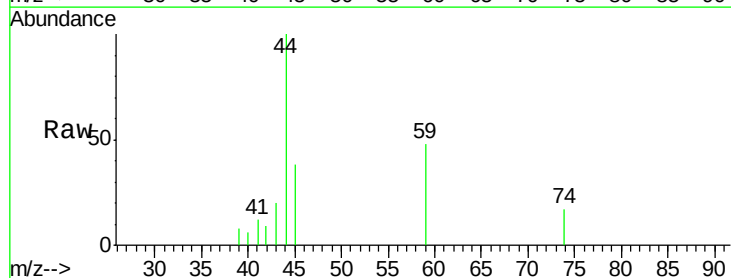
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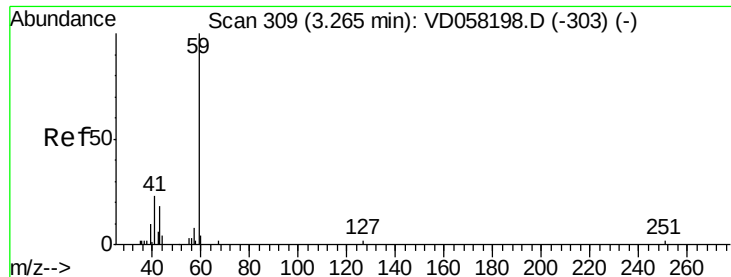
Tot Ion: 50 Resp: 217
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#



#8
Diethyl Ether
Concen: 1.644 ug/l
RT: 2.35 min Scan# 216
Delta R.T. 0.01 min
Lab File: VD058233.D
Acq: 21 Jun 2018 4:06

Tgt Ion: 74 Resp: 1680
Ion Ratio Lower Upper
74 100
45 229.2 77.5 232.6



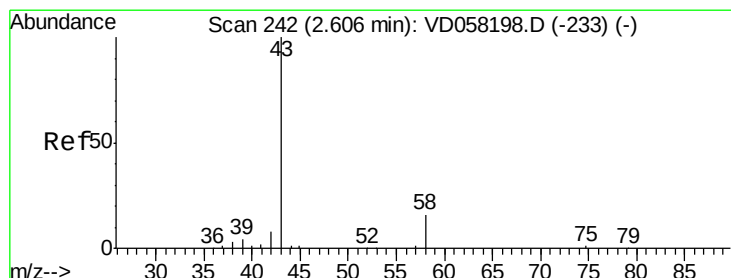
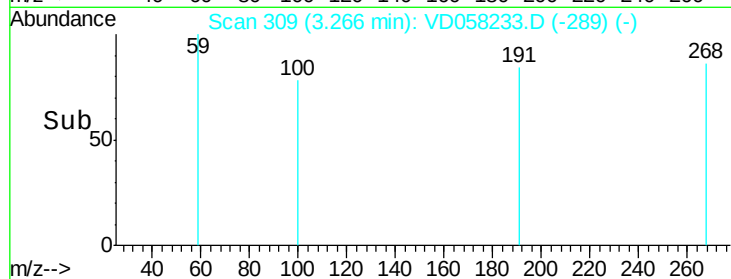
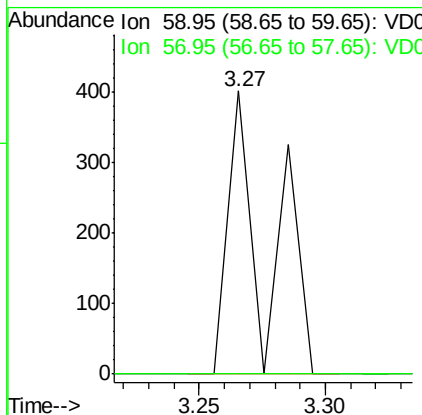
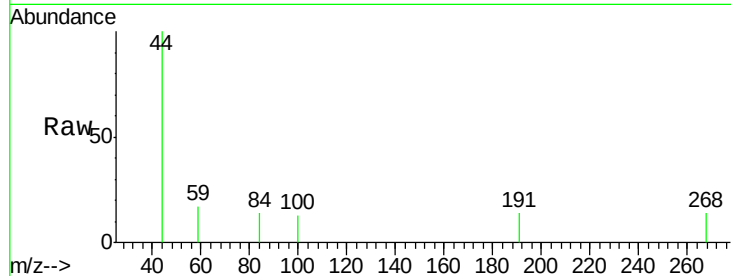


#11

Tert butyl alcohol
 Concen: 1.919 ug/l
 RT: 3.27 min Scan# 309
 Delta R.T. 0.00 min
 Lab File: VD058233.D
 Acq: 21 Jun 2018 4:06

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-061918

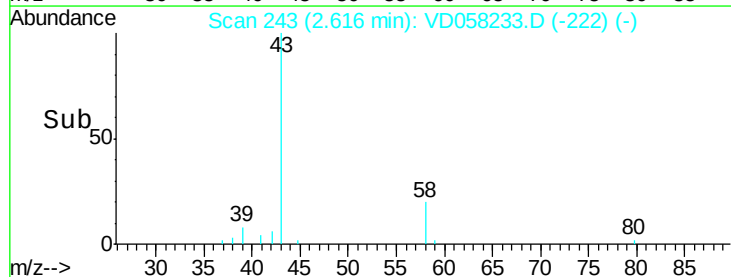
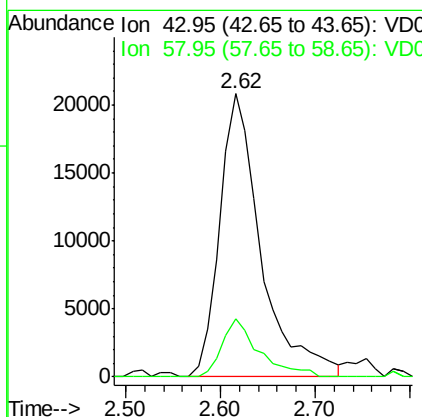
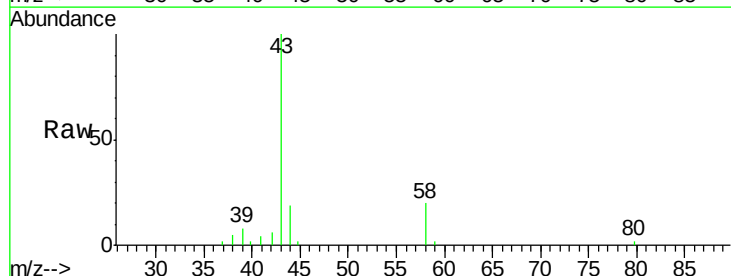
Tot Ion: 59 Resp: 430
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.4#

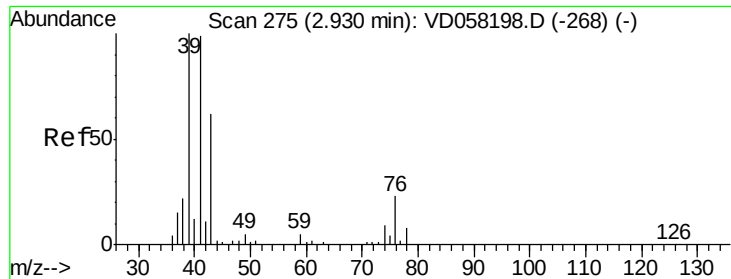


#16

Acetone
 Concen: 67.883 ug/l
 RT: 2.62 min Scan# 243
 Delta R.T. 0.01 min
 Lab File: VD058233.D
 Acq: 21 Jun 2018 4:06

Tgt Ion: 43 Resp: 63056
 Ion Ratio Lower Upper
 43 100
 58 20.3 12.7 19.1#

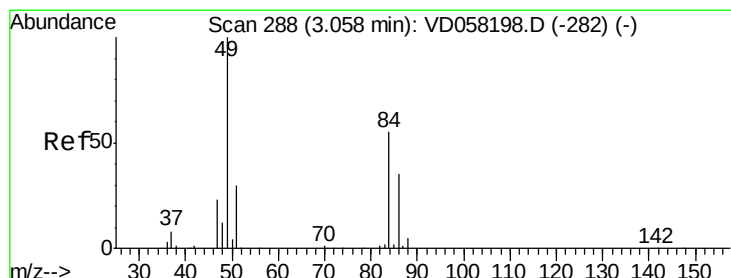
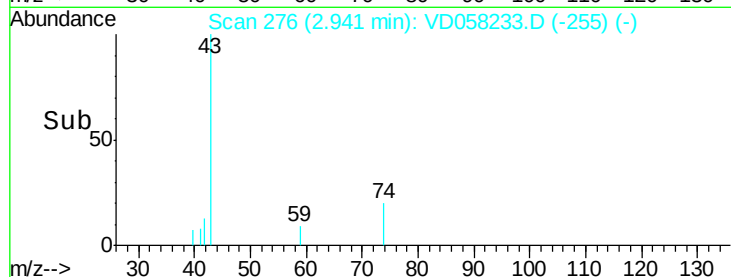
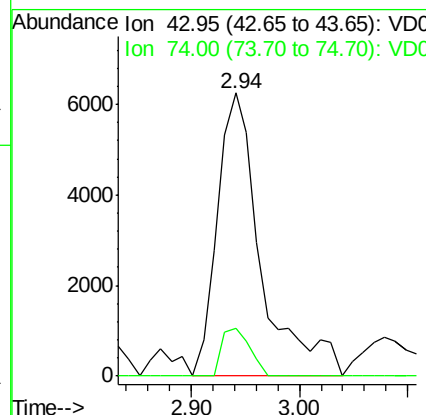
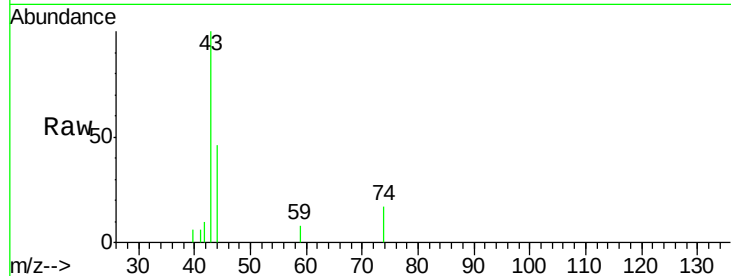




#18
Methyl Acetate
Concen: 8.868 ug/l
RT: 2.94 min Scan# 276
Delta R.T. 0.01 min
Lab File: VD058233.D
Acq: 21 Jun 2018 4:06

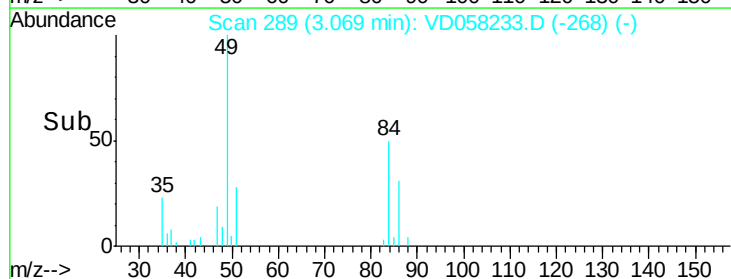
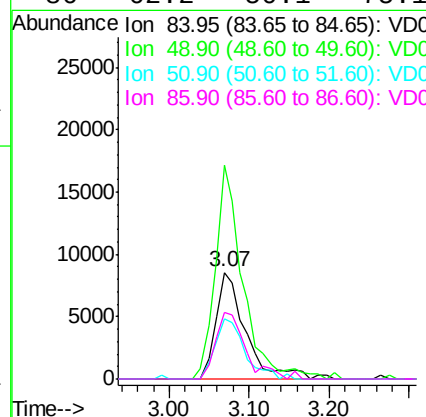
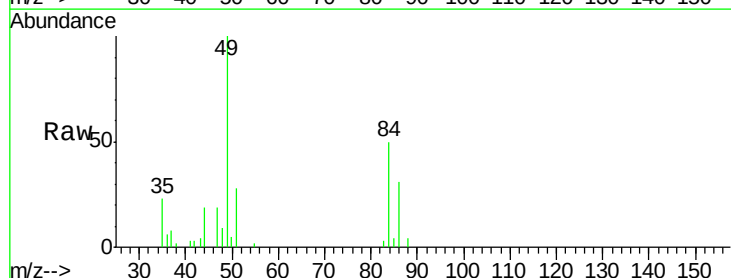
Instrument :
MSVOA_D
ClientSampleId :
OR-01-061918

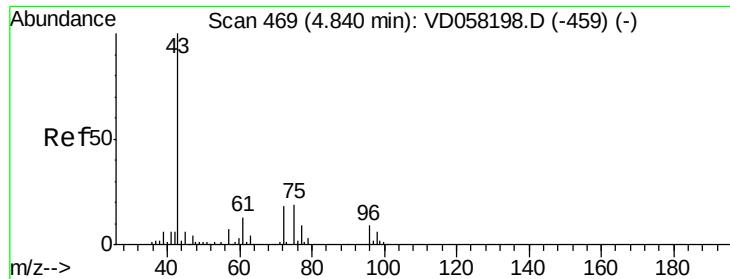
Tot Ion: 43 Resp: 17567
Ion Ratio Lower Upper
43 100
74 16.9 11.7 17.5



#20
Methylene Chloride
Concen: 4.991 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD058233.D
Acq: 21 Jun 2018 4:06

Tgt Ion: 84 Resp: 22505
Ion Ratio Lower Upper
84 100
49 200.0 145.0 217.6
51 56.4 42.9 64.3
86 62.2 50.1 75.1

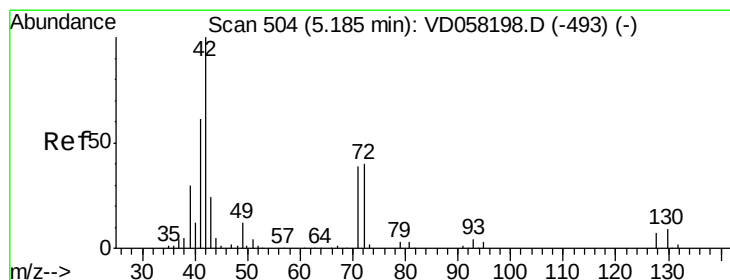
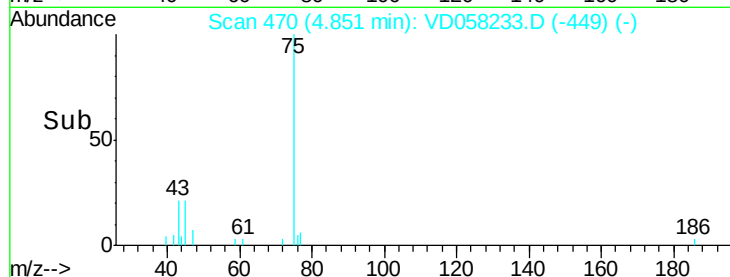
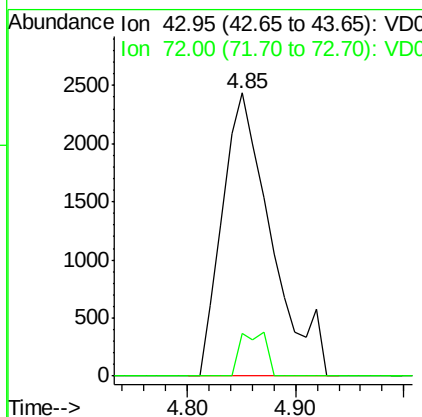
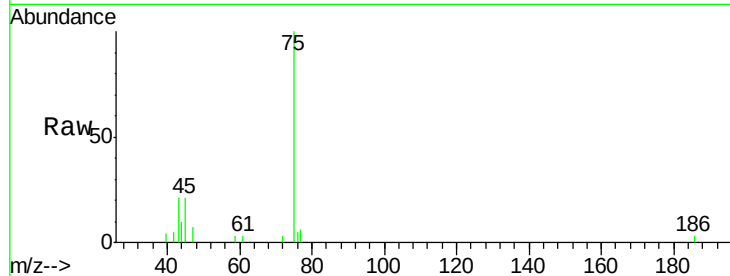




#25
2-Butanone
Concen: 3.782 ug/l
RT: 4.85 min Scan# 470
Delta R.T. 0.01 min
Lab File: VD058233.D
Acq: 21 Jun 2018 4:06

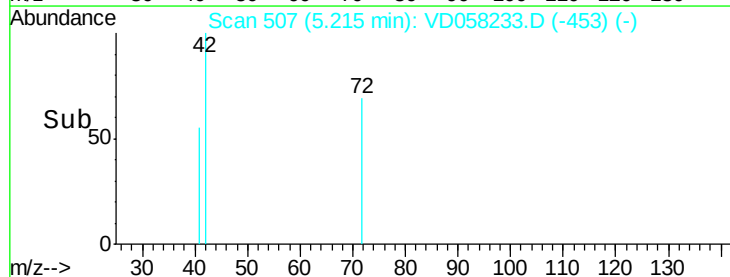
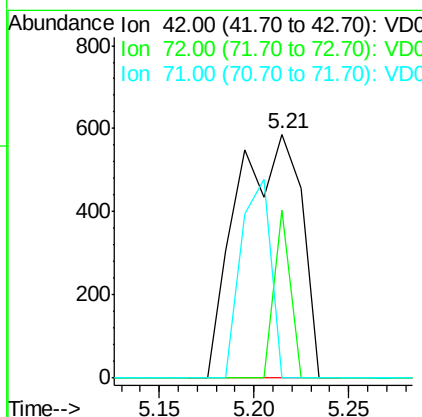
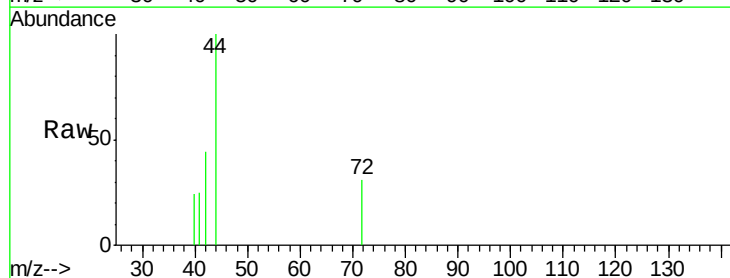
Instrument :
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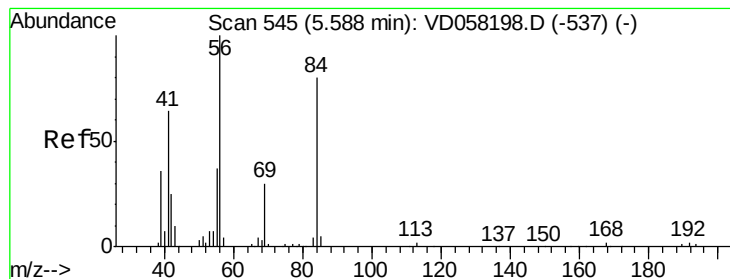
Tot Ion: 43 Resp: 7657
Ion Ratio Lower Upper
43 100
72 14.9 14.1 21.1



#29
Tetrahydrofuran
Concen: 1.279 ug/l
RT: 5.21 min Scan# 507
Delta R.T. 0.03 min
Lab File: VD058233.D
Acq: 21 Jun 2018 4:06

Tgt Ion: 42 Resp: 1378
Ion Ratio Lower Upper
42 100
72 17.3 30.2 45.2#
71 37.4 30.1 45.1





#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

Delta R.T. 0.06 min

Lab File: VD058233.D

Acq: 21 Jun 2018 4:06

Instrument :

MSVOA_D

ClientSampleId :

OR-01-061918

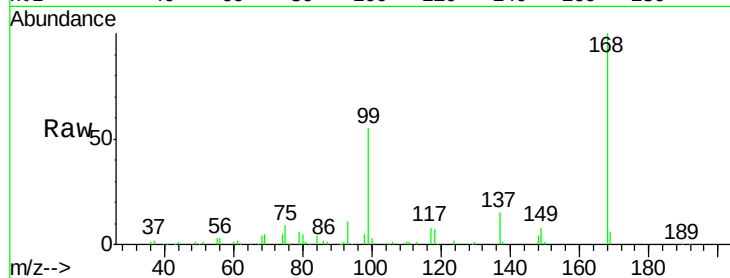
Tot Ion: 56 Resp: 14708

Ion Ratio Lower Upper

56 100

69 172.4 23.6 35.4#

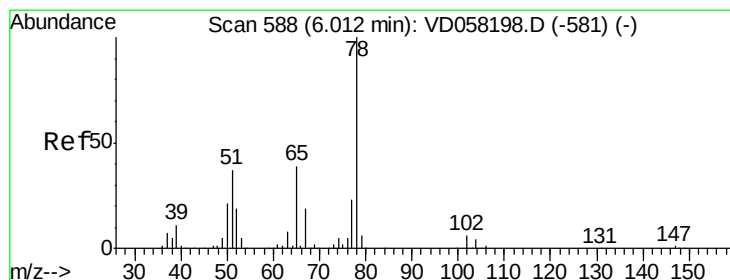
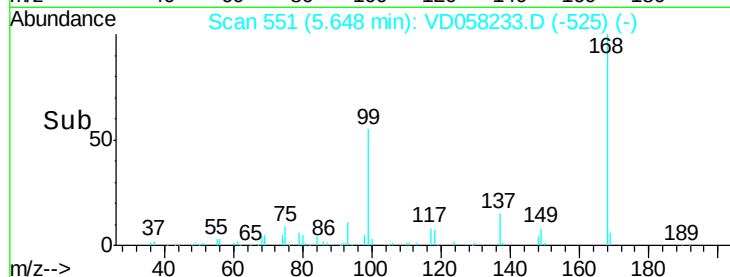
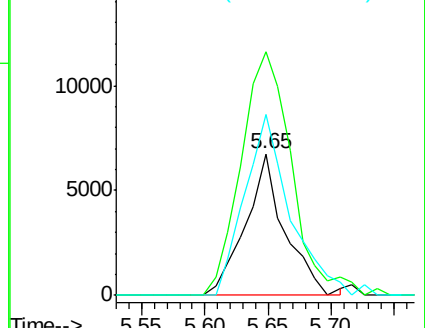
84 128.3 65.2 97.8#



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: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058233.D

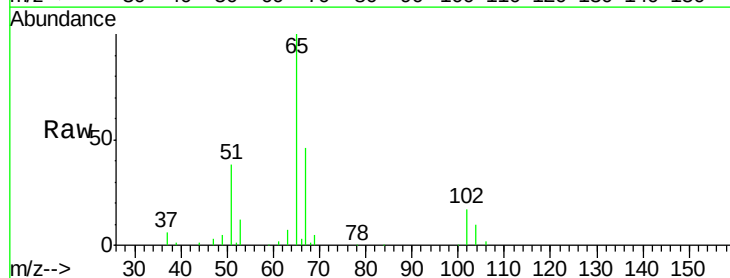
Acq: 21 Jun 2018 4:06

Tgt Ion: 65 Resp: 378282

Ion Ratio Lower Upper

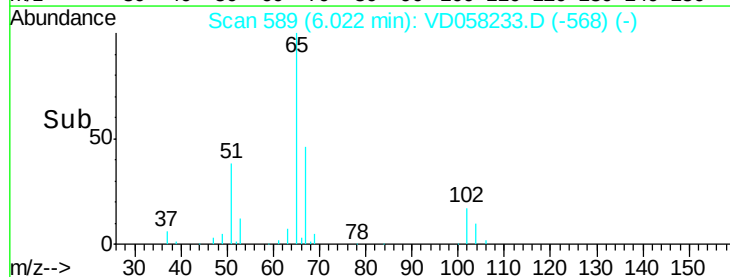
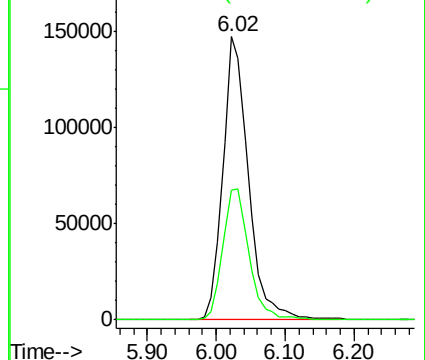
65 100

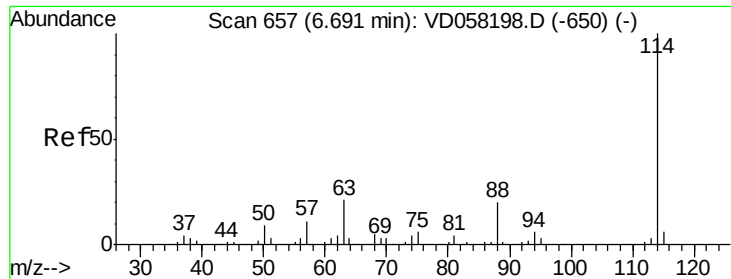
67 46.0 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

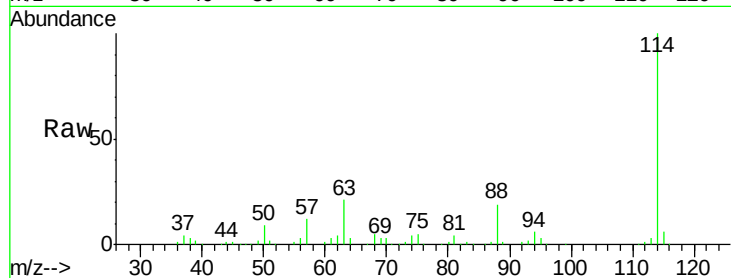




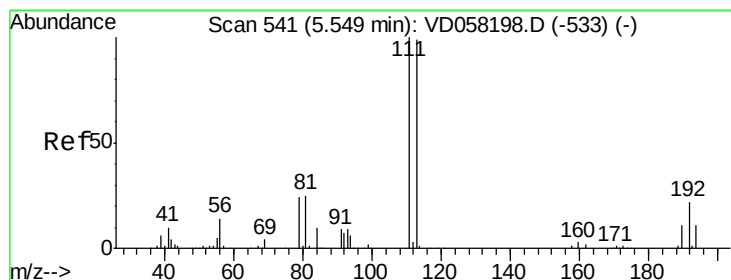
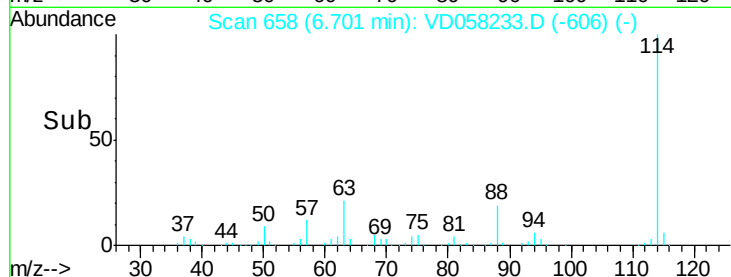
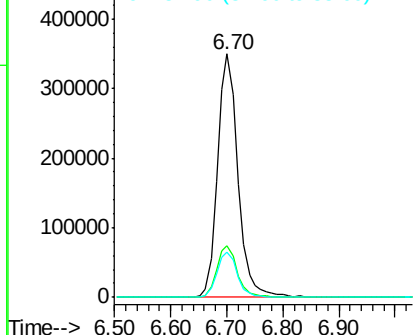
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058233.D
 Acq: 21 Jun 2018 4:06

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-061918

Tot Ion:114 Resp: 891741
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.6
 88 18.7 0.0 40.6

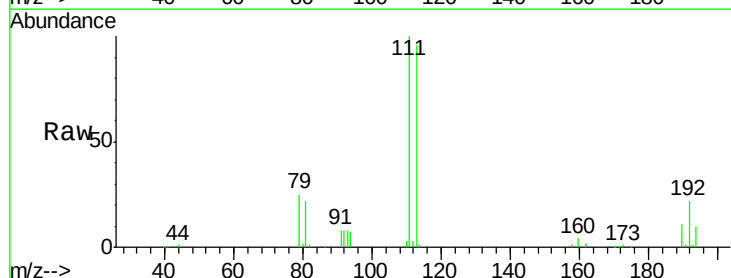


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC

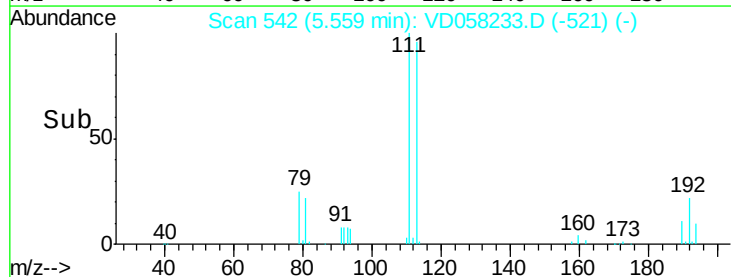
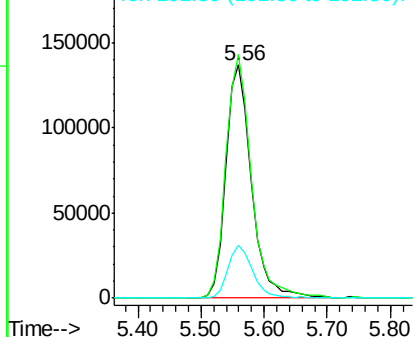


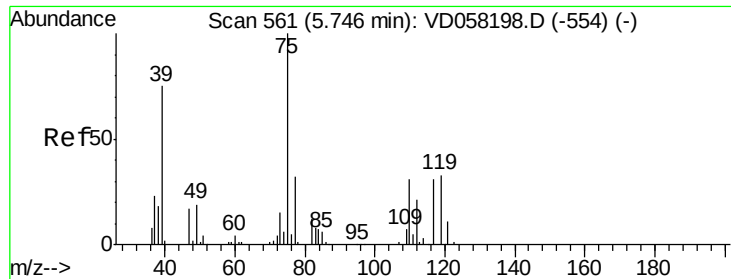
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.56 min Scan# 542
 Delta R.T. 0.01 min
 Lab File: VD058233.D
 Acq: 21 Jun 2018 4:06

Tgt Ion:113 Resp: 384086
 Ion Ratio Lower Upper
 113 100
 111 104.5 80.6 121.0
 192 22.8 17.8 26.6



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

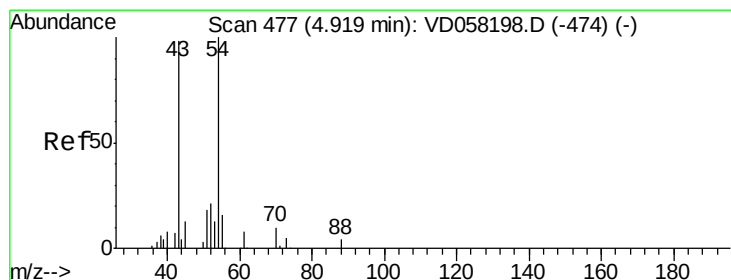
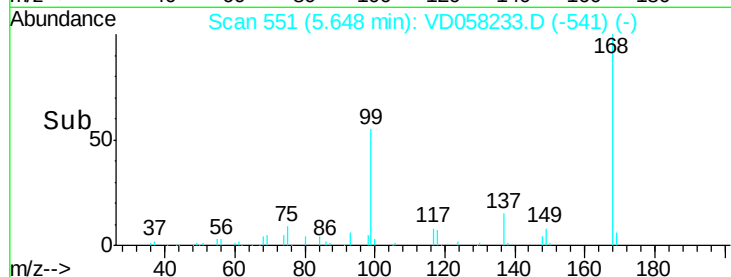
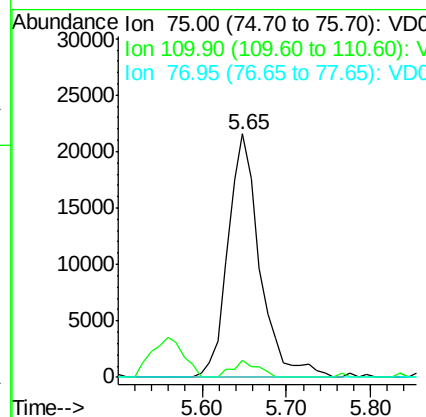
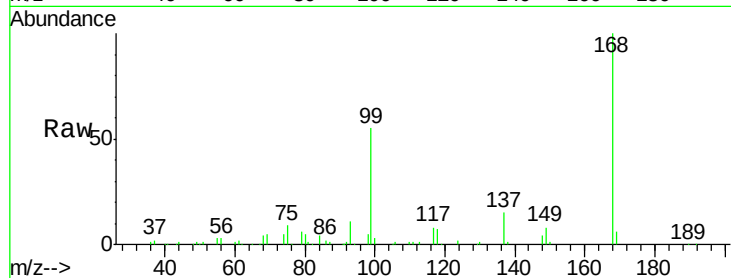




#36
 1,1-Dichloropropene
 Concen: 6.428 ug/l
 RT: 5.65 min Scan# 551
 Delta R.T. -0.10 min
 Lab File: VD058233.D
 Acq: 21 Jun 2018 4:06

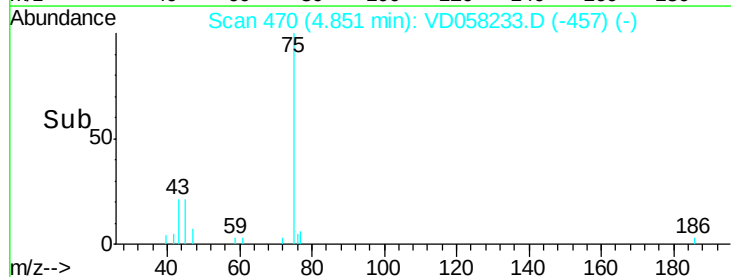
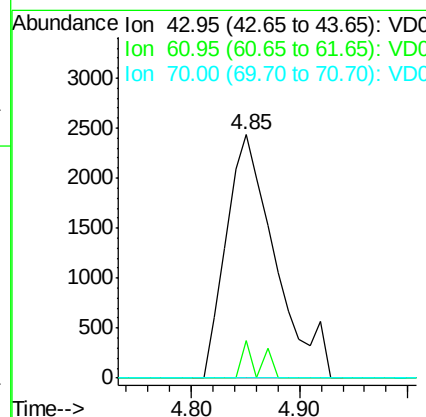
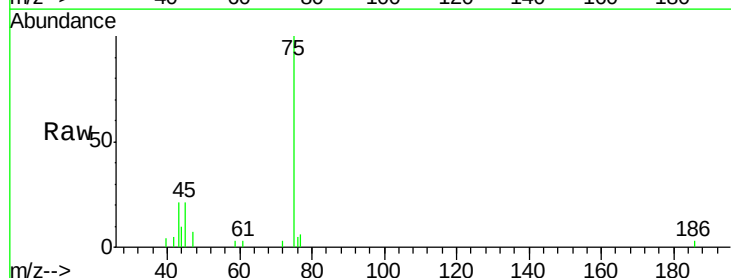
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-061918

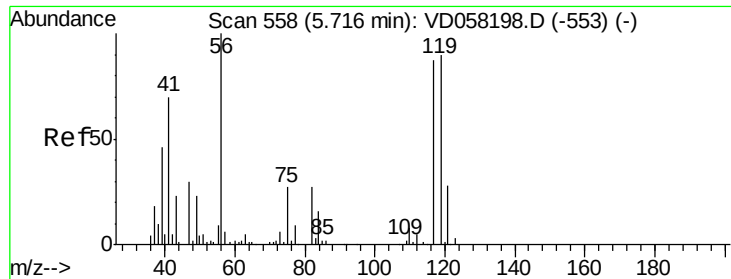
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.2	15.4	46.4#
77	0.0	25.4	38.2#



#37
 Ethyl Acetate
 Concen: 1.523 ug/l
 RT: 4.85 min Scan# 470
 Delta R.T. -0.07 min
 Lab File: VD058233.D
 Acq: 21 Jun 2018 4:06

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.6	10.3	15.5#
70	0.0	5.7	8.5#

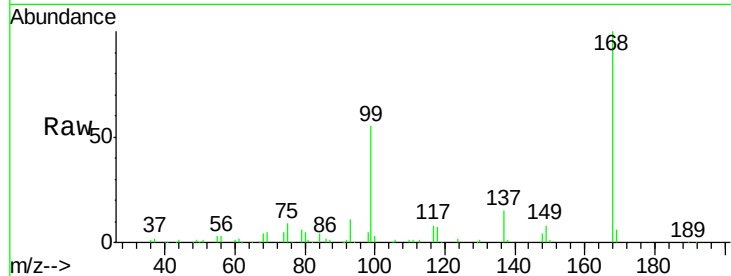




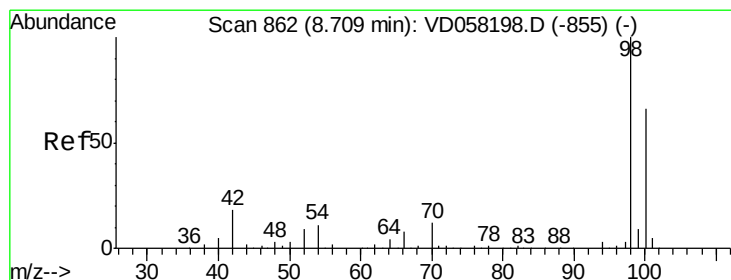
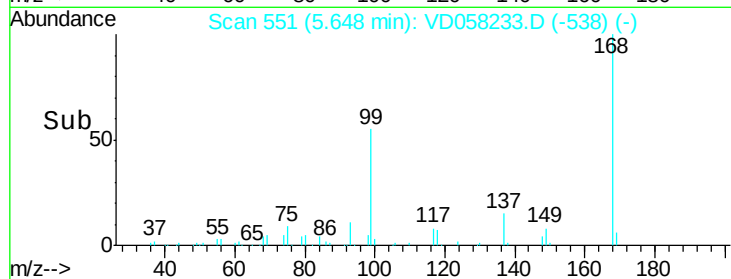
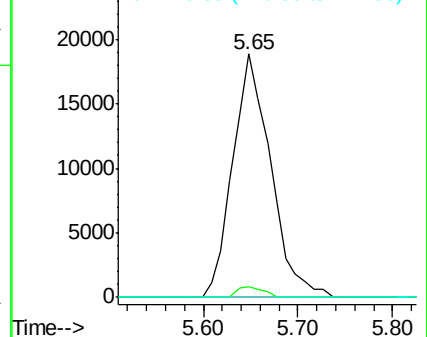
#38
Carbon Tetrachloride
Concen: 5.994 ug/l
RT: 5.65 min Scan# 551
Delta R.T. -0.07 min
Lab File: VD058233.D
Acq: 21 Jun 2018 4:06

Instrument :
MSVOA_D
ClientSampleId :
OR-01-061918

Tot Ion:117 Resp: 52535
Ion Ratio Lower Upper
117 100
119 4.6 78.8 118.2#
121 0.0 25.0 37.6#

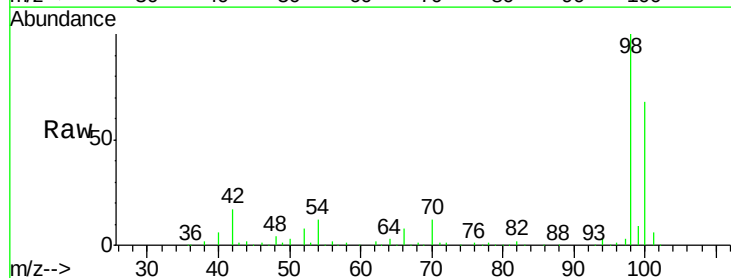


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

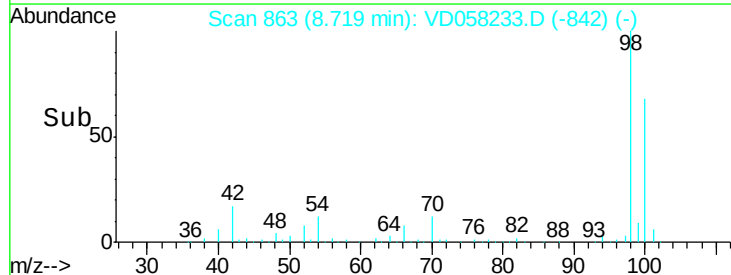
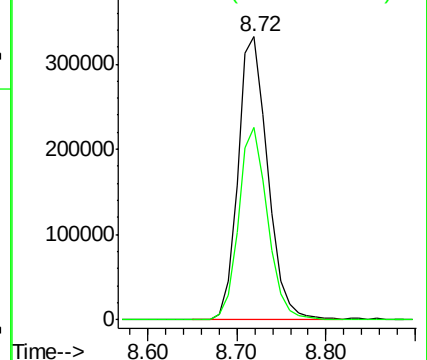


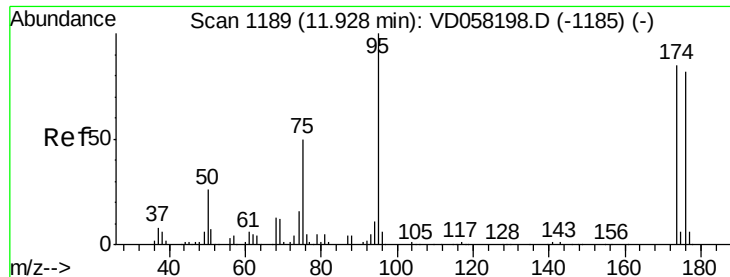
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.72 min Scan# 863
Delta R.T. 0.01 min
Lab File: VD058233.D
Acq: 21 Jun 2018 4:06

Tgt Ion: 98 Resp: 771565
Ion Ratio Lower Upper
98 100
100 68.0 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058233.D

Acq: 21 Jun 2018 4:06

Instrument :

MSVOA_D

ClientSampleId :

OR-01-061918

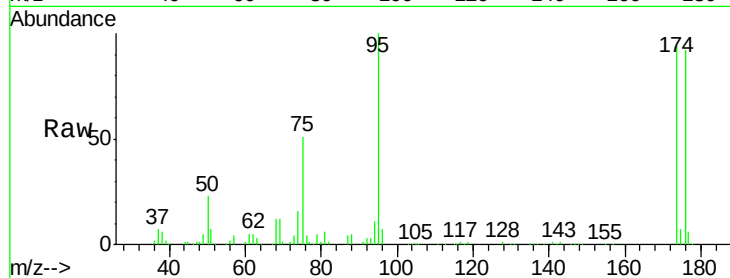
Tot Ion: 95 Resp: 333564

Ion Ratio Lower Upper

95 100

174 94.3 0.0 170.2

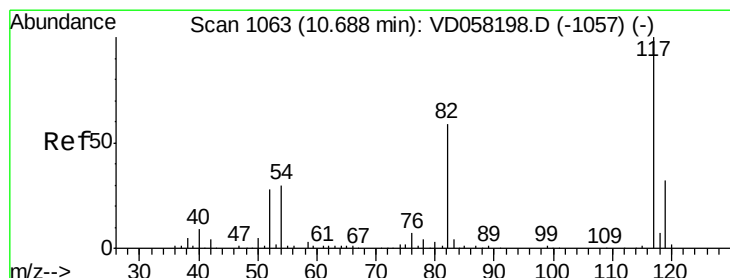
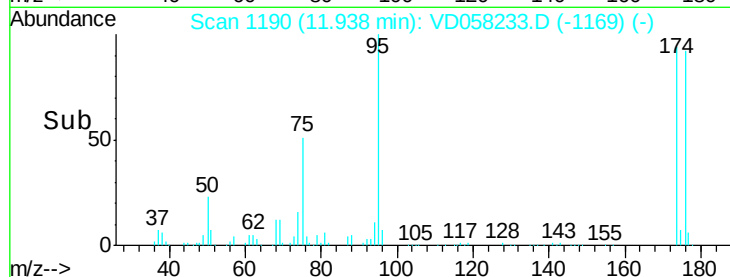
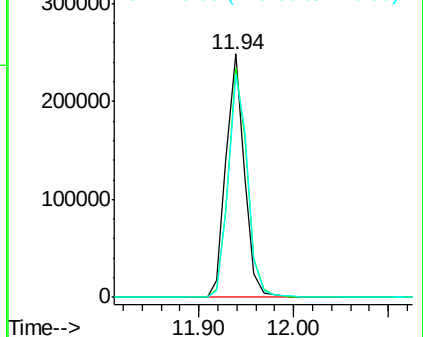
176 91.6 0.0 164.6



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: 10.70 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD058233.D

Acq: 21 Jun 2018 4:06

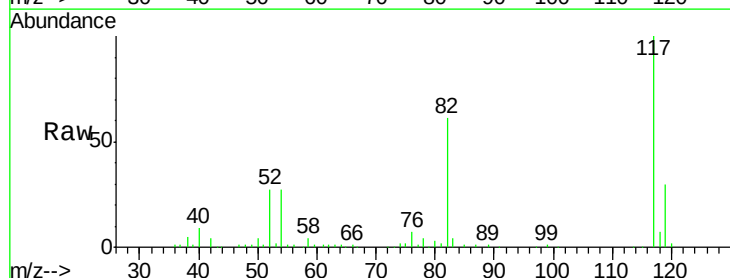
Tgt Ion: 117 Resp: 637567

Ion Ratio Lower Upper

117 100

82 61.1 47.0 70.6

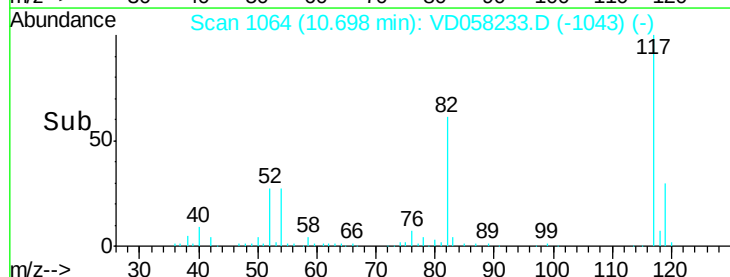
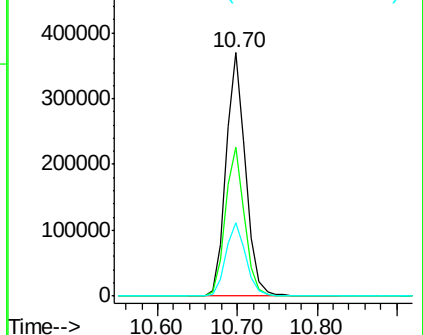
119 30.3 25.3 37.9

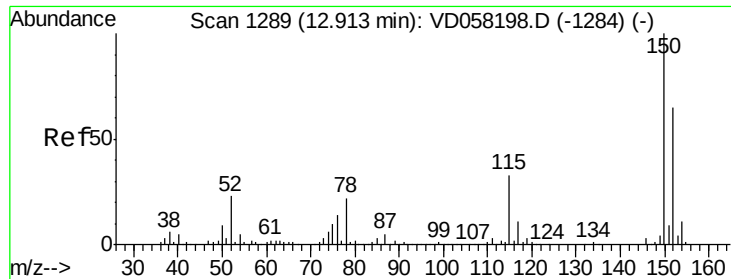


Abundance Ion 116.95 (116.65 to 117.65): V

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: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD058233.D

Acq: 21 Jun 2018 4:06

Instrument :

MSVOA_D

ClientSampleId :

OR-01-061918

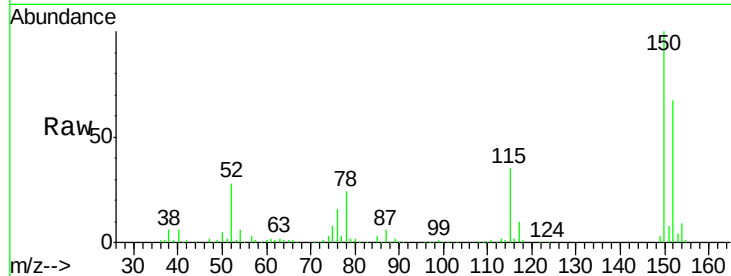
Tot Ion:152 Resp: 332690

Ion Ratio Lower Upper

152 100

115 52.0 25.1 75.3

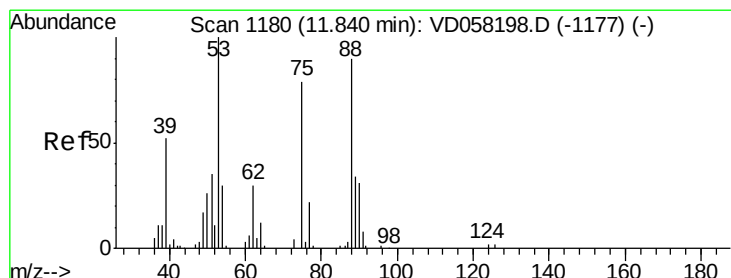
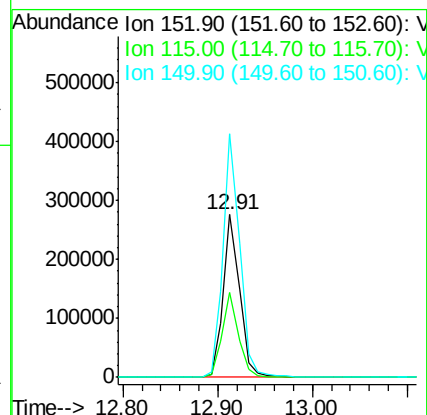
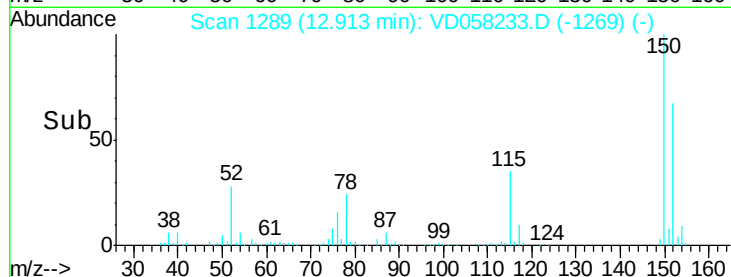
150 149.5 0.0 308.8



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: 138.313 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058233.D

Acq: 21 Jun 2018 4:06

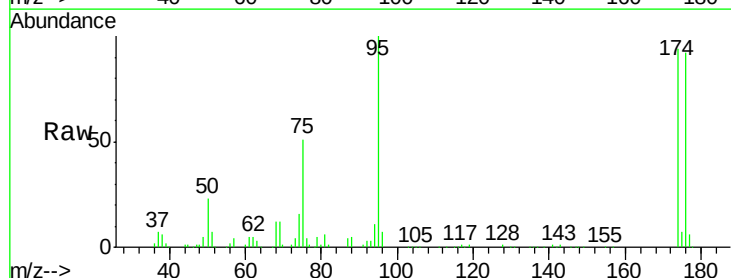
Tgt Ion: 75 Resp: 163856

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

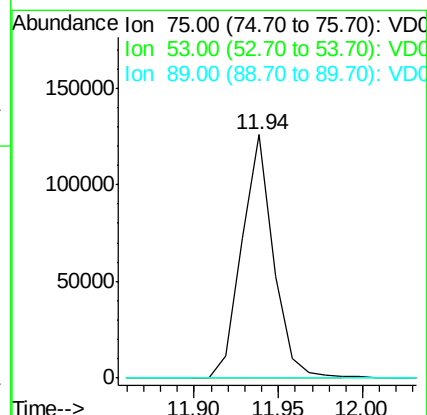
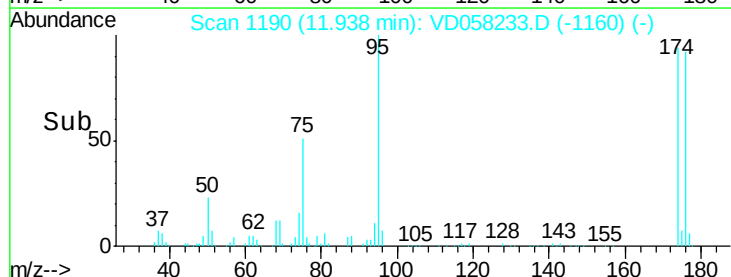
89 0.0 34.6 52.0#

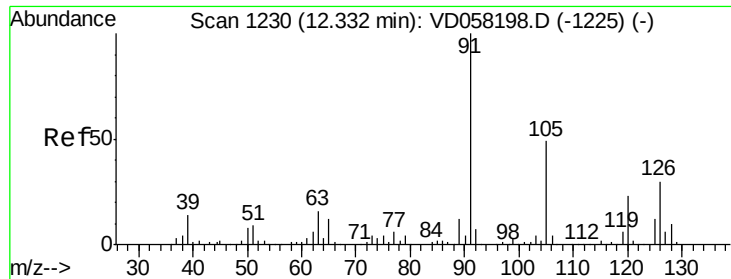


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.33 min Scan# 1230
 Delta R.T. 0.00 min
 Lab File: VD058233.D
 Acq: 21 Jun 2018 4:06

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-01-061918

Tot Ion: 91 Resp: 758
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.9#

