

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058310.D
 Acq On : 22 Jun 2018 21:40
 Operator : VA/AP
 Sample : J3663-13
 Misc : 20.31g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB470-29-31-180618

Quant Time: Jun 22 22:21:35 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	5.64	168	592820	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	760332	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.68	117	647351	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	338056	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	336743	56.24	ug/l	0.00
Spiked Amount 50.000			Recovery =	112.48%		
35) Dibromofluoromethane	5.55	113	335839	54.27	ug/l	0.00
Spiked Amount 50.000			Recovery =	108.54%		
50) Toluene-d8	8.71	98	785165	52.44	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.88%		
62) 4-Bromofluorobenzene	11.93	95	353086	57.73	ug/l	0.00
Spiked Amount 50.000			Recovery =	115.46%		

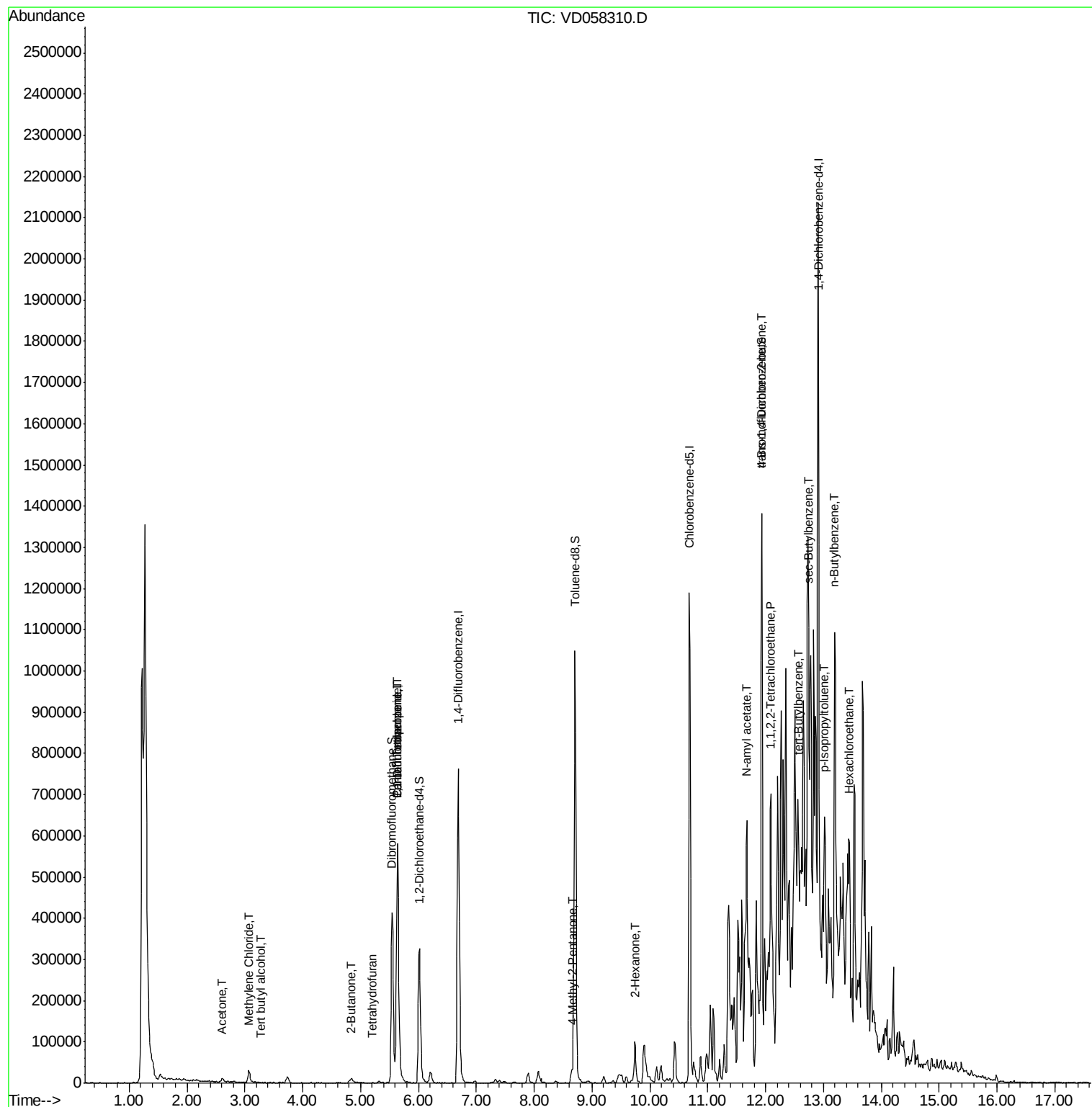
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.53	50	219	Below Cal	#	43
11) Tert butyl alcohol	3.27	59	588	2.977	ug/l #	78
16) Acetone	2.61	43	15867	19.376	ug/l #	65
20) Methylene Chloride	3.07	84	13861	1.899	ug/l #	95
25) 2-Butanone	4.85	43	3566	1.998	ug/l #	60
29) Tetrahydrofuran	5.20	42	994	1.046	ug/l #	37
31) Cyclohexane	5.64	56	14911	Below Cal	#	4
36) 1,1-Dichloropropene	5.63	75	48608	6.462	ug/l #	51
38) Carbon Tetrachloride	5.64	117	50465	6.752	ug/l #	13
51) 4-Methyl-2-Pentanone	8.65	43	5323	1.428	ug/l #	85
59) 2-Hexanone	9.74	43	58028	21.549	ug/l #	38
74) N-amyl acetate	11.67	43	157873	20.192	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.09	83	34899	7.416	ug/l #	65
81) trans-1,4-Dichloro-2-buten	11.93	75	167266	138.950	ug/l #	3
82) 4-Chlorotoluene	12.36	91	8679	Below Cal		85
83) tert-Butylbenzene	12.57	119	27462	1.515	ug/l	83
85) sec-Butylbenzene	12.75	105	62744	2.952	ug/l #	66
86) p-Isopropyltoluene	13.03	119	48299	2.804	ug/l	98
89) n-Butylbenzene	13.19	91	24590	1.358	ug/l	72
90) Hexachloroethane	13.45	117	6273	1.403	ug/l #	1

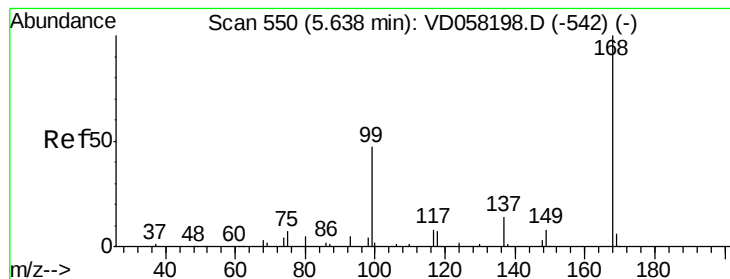
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.01 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

MSVOA_D

ClientSampleId :

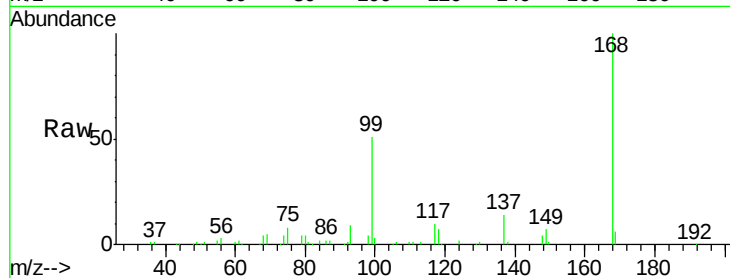
WP021SB470-29-31-180618

Tot Ion:168 Resp: 592820

Ion Ratio Lower Upper

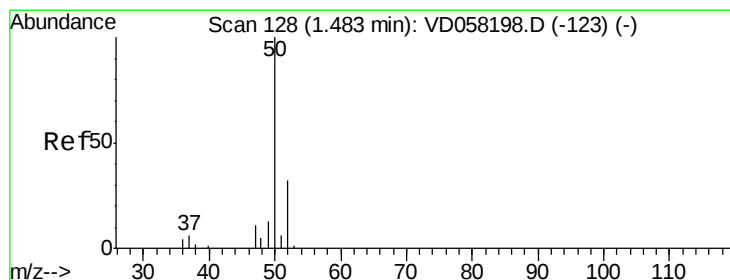
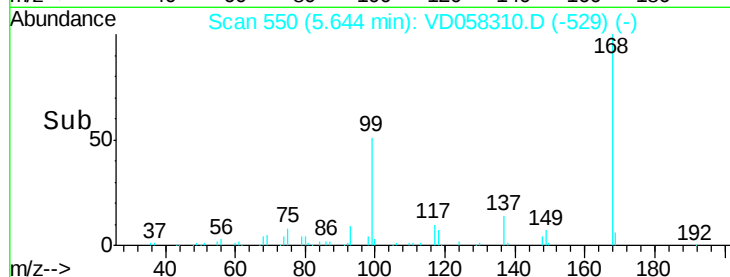
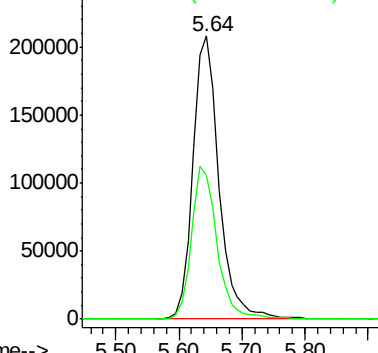
168 100

99 50.7 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.53 min Scan# 132

Delta R.T. 0.05 min

Lab File: VD058310.D

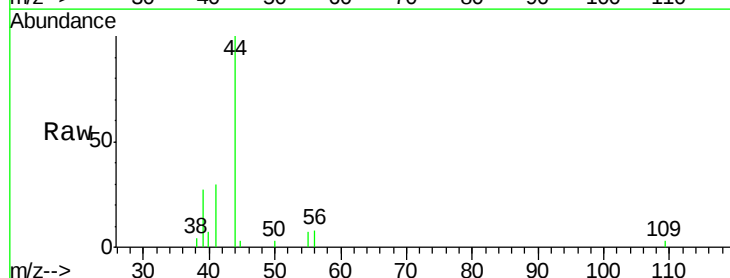
Acq: 22 Jun 2018 21:40

Tgt Ion: 50 Resp: 219

Ion Ratio Lower Upper

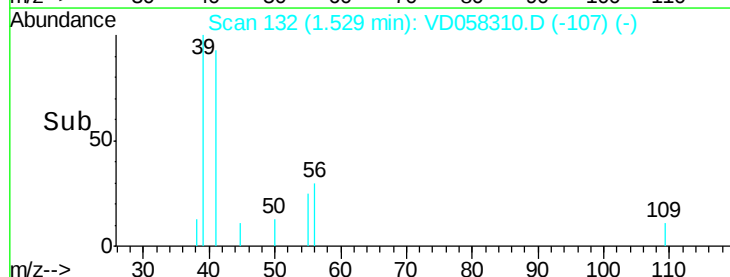
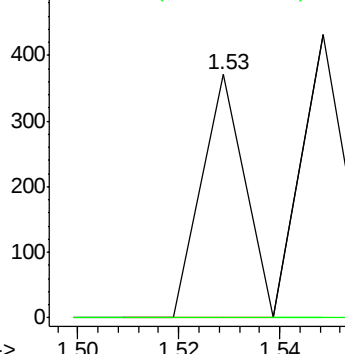
50 100

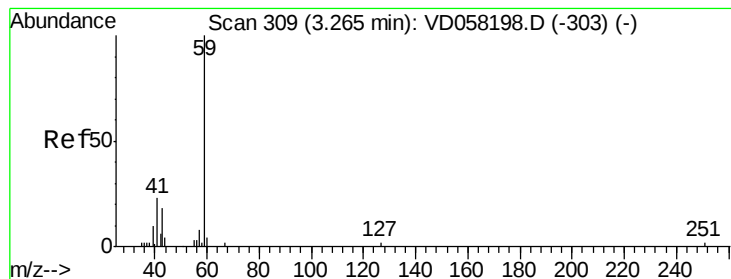
52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



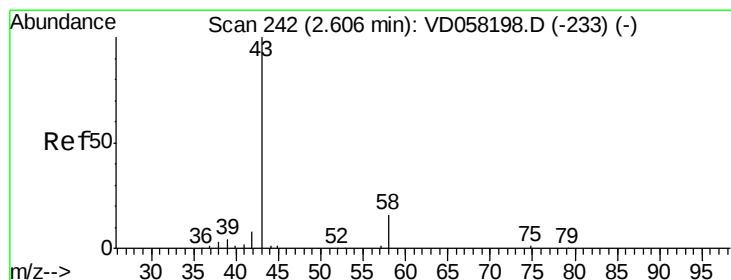
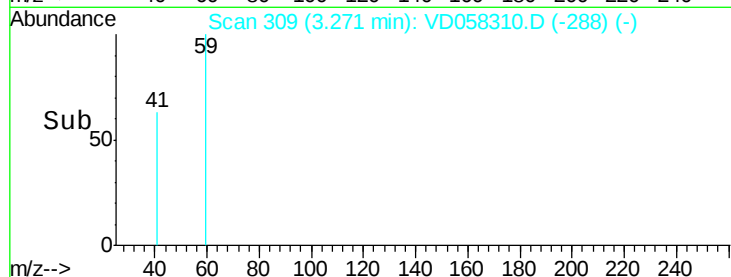
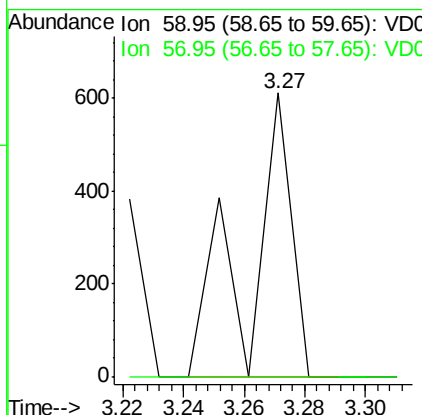
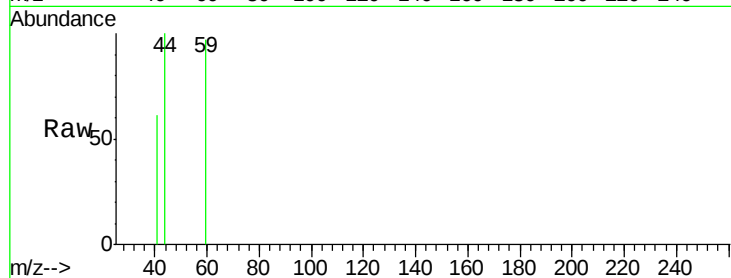


#11

Tert butyl alcohol
 Concen: 2.977 ug/l
 RT: 3.27 min Scan# 309
 Delta R.T. 0.01 min
 Lab File: VD058310.D
 Acq: 22 Jun 2018 21:40

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB470-29-31-180618

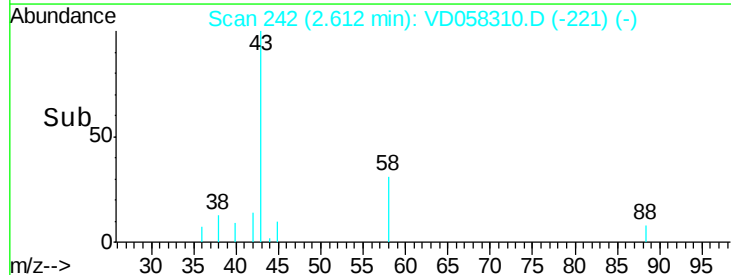
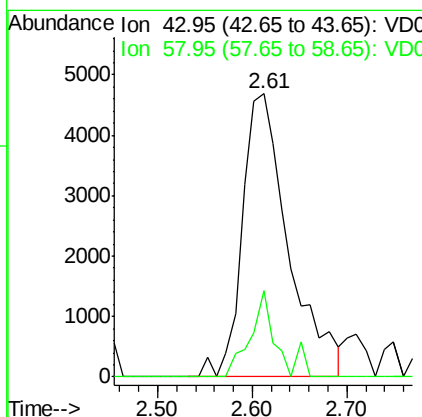
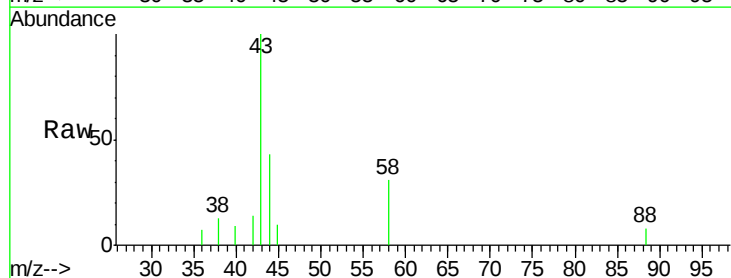
Tot Ion: 59 Resp: 588
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.4#

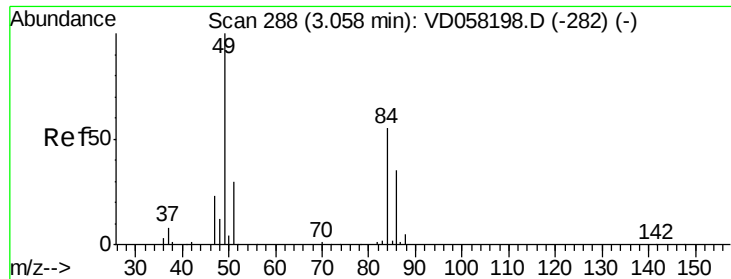


#16

Acetone
 Concen: 19.376 ug/l
 RT: 2.61 min Scan# 242
 Delta R.T. 0.01 min
 Lab File: VD058310.D
 Acq: 22 Jun 2018 21:40

Tgt Ion: 43 Resp: 15867
 Ion Ratio Lower Upper
 43 100
 58 30.6 12.7 19.1#

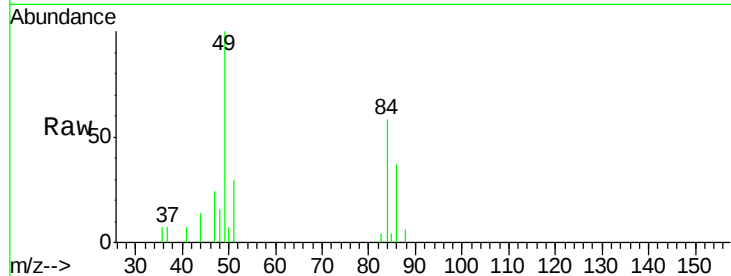




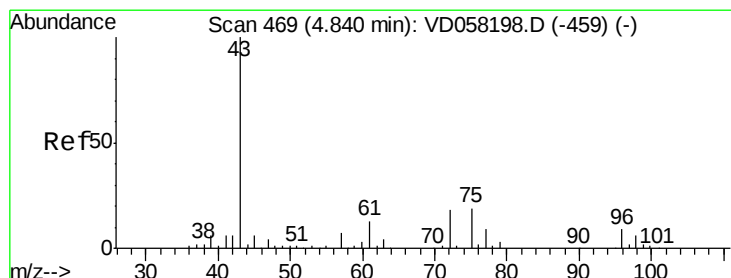
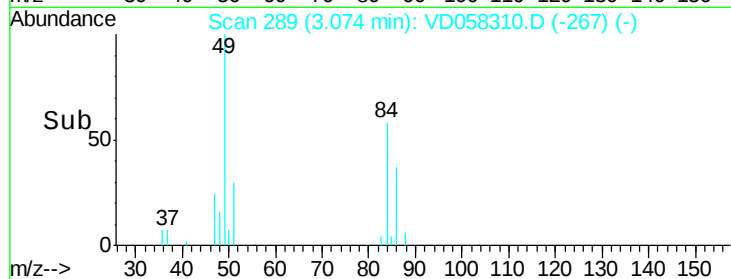
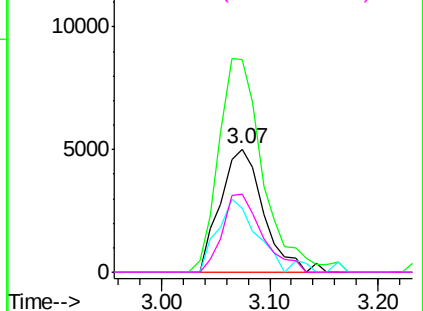
#20
Methvlene Chloride
Concen: 1.899 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.02 min
Lab File: VD058310.D
Acq: 22 Jun 2018 21:40

Instrument :
MSVOA_D
ClientSampleId :
WP021SB470-29-31-180618

Tot Ion: 84 Resp: 13861
Ion Ratio Lower Upper
84 100
49 171.7 145.0 217.6
51 52.0 42.9 64.3
86 63.0 50.1 75.1

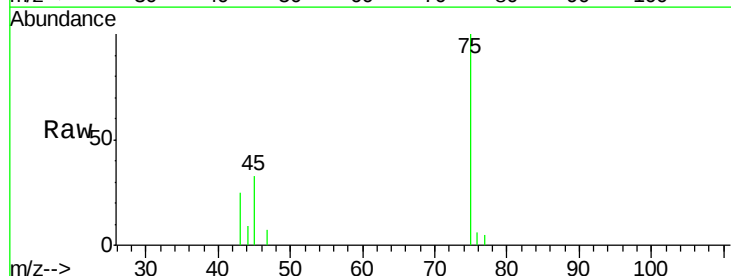


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

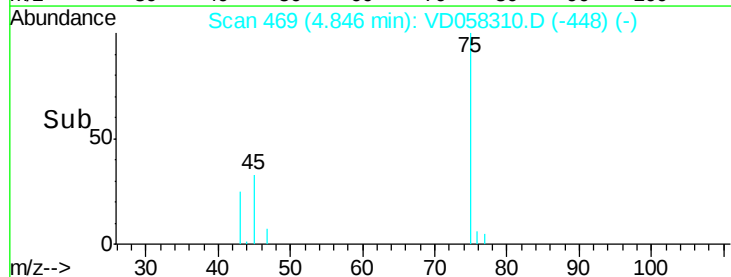
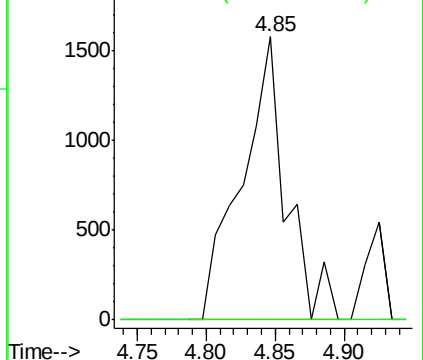


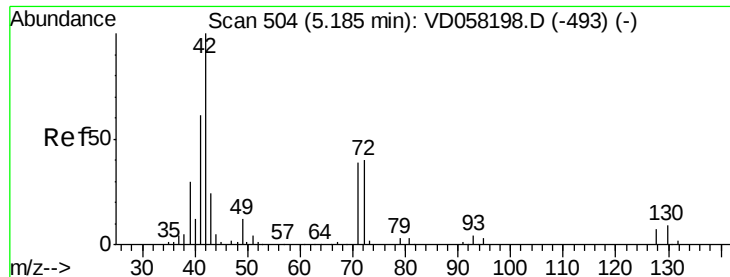
#25
2-Butanone
Concen: 1.998 ug/l
RT: 4.85 min Scan# 469
Delta R.T. 0.01 min
Lab File: VD058310.D
Acq: 22 Jun 2018 21:40

Tgt Ion: 43 Resp: 3566
Ion Ratio Lower Upper
43 100
72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

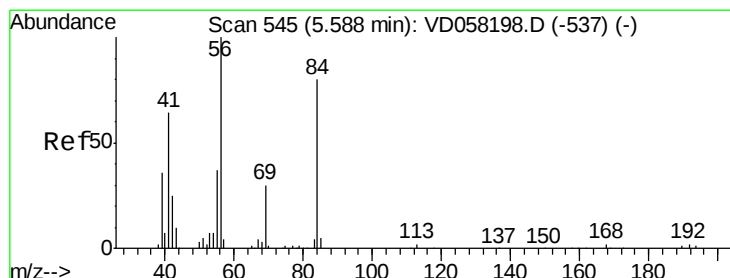
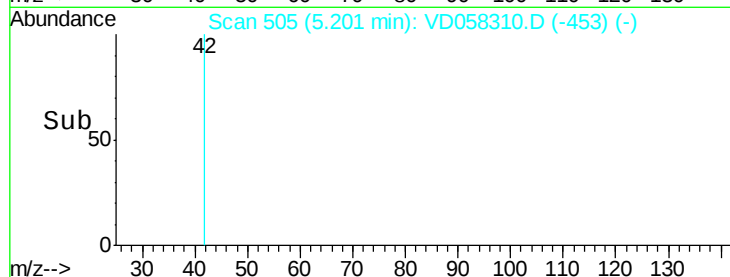
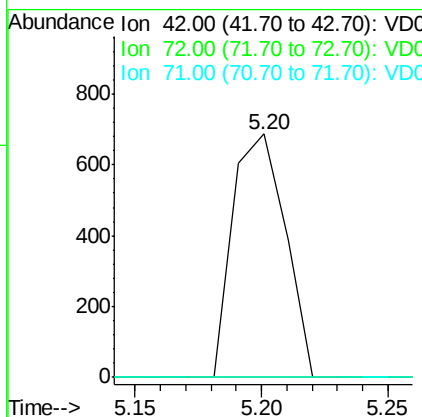
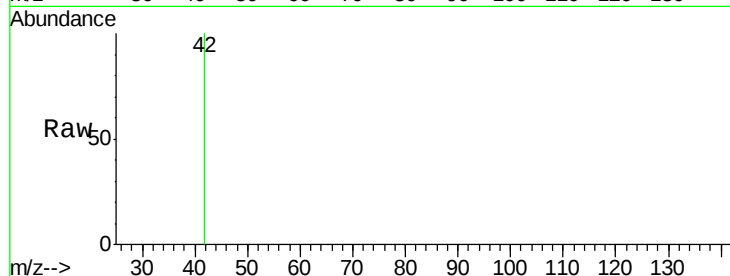




#29
Tetrahydrofuran
Concen: 1.046 ug/l
RT: 5.20 min Scan# 505
Delta R.T. 0.02 min
Lab File: VD058310.D
Acq: 22 Jun 2018 21:40

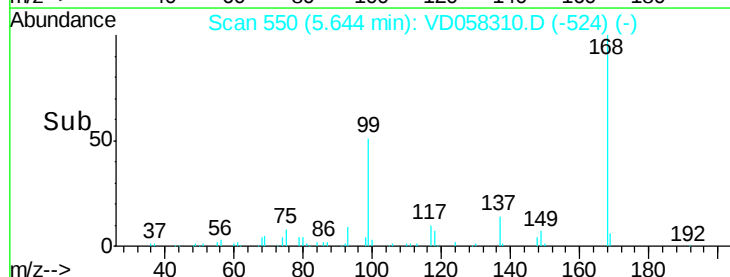
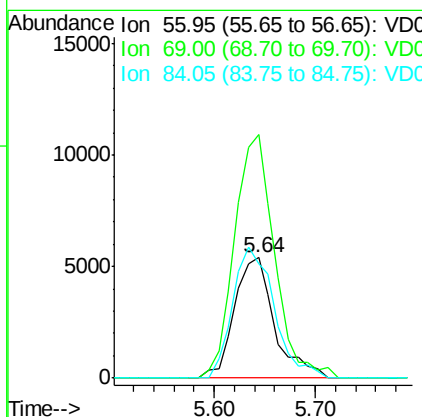
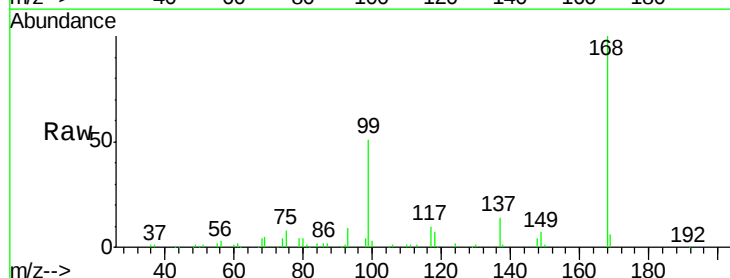
Instrument :
MSVOA_D
ClientSampleId :
WP021SB470-29-31-180618

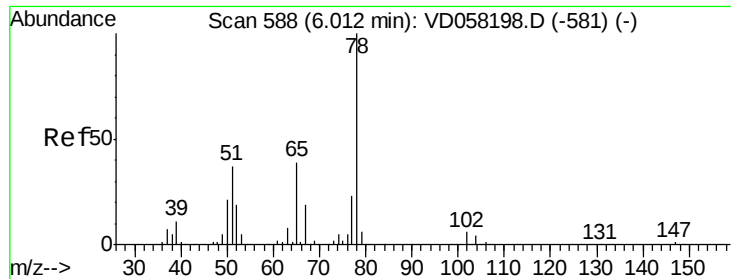
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.2	45.2#
71	0.0	30.1	45.1#



#31
Cyclohexane
Concen: Below Cal
RT: 5.64 min Scan# 550
Delta R.T. 0.06 min
Lab File: VD058310.D
Acq: 22 Jun 2018 21:40

Tgt Ion	Ratio	Lower	Upper
56	100		
69	202.3	23.6	35.4#
84	94.7	65.2	97.8





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.02 min Scan# 588

Delta R.T. 0.01 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

MSVOA_D

ClientSampleId :

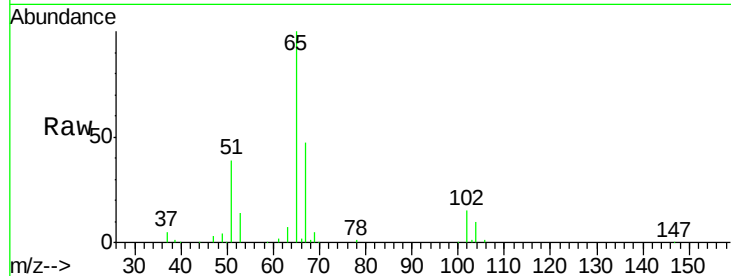
WP021SB470-29-31-180618

Tot Ion: 65 Resp: 336743

Ion Ratio Lower Upper

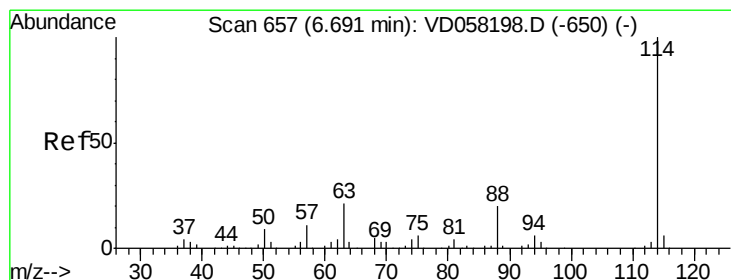
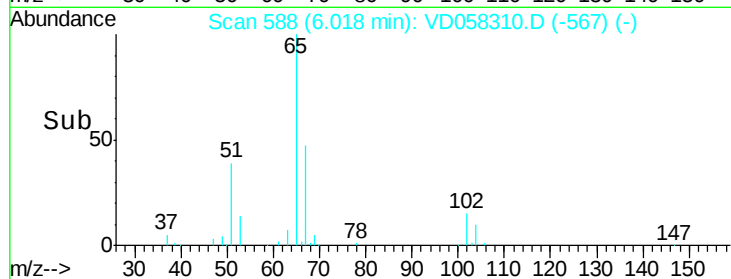
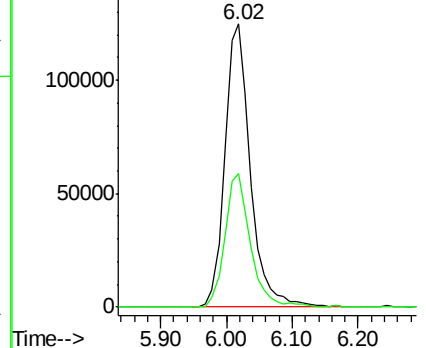
65 100

67 47.3 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: 6.69 min Scan# 656

Delta R.T. -0.00 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

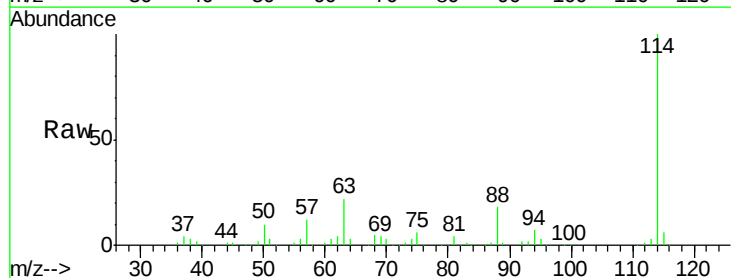
Tgt Ion: 114 Resp: 760332

Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.6

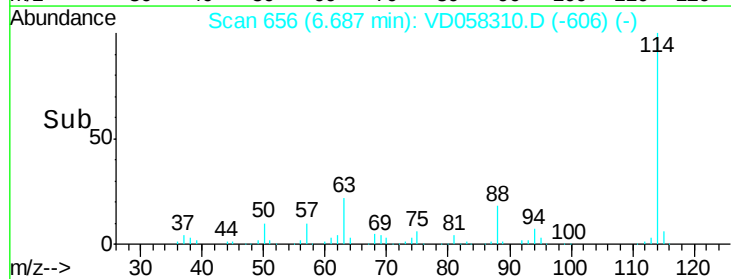
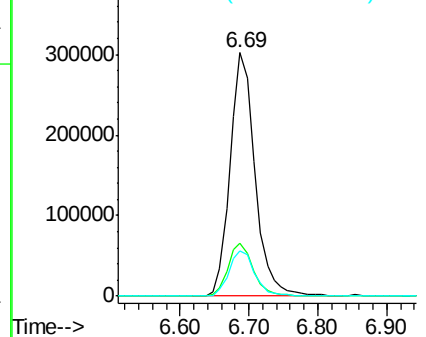
88 18.4 0.0 40.6

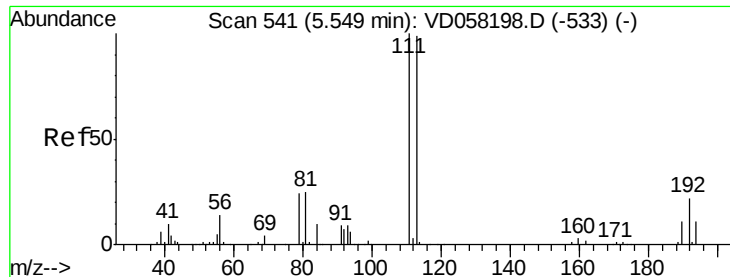


Abundance Ion 114.00 (113.70 to 114.70): V

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: 5.55 min Scan# 540

Delta R.T. -0.00 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

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ClientSampleId :

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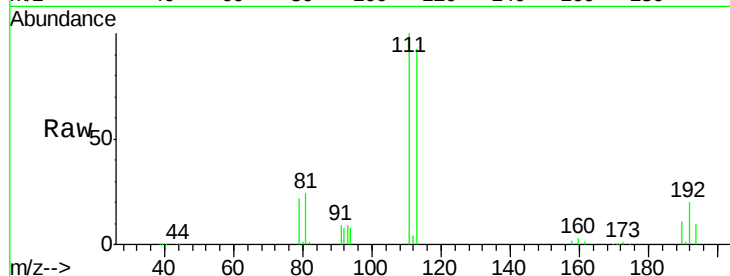
Tot Ion:113 Resp: 335839

Ion Ratio Lower Upper

113 100

111 107.9 80.6 121.0

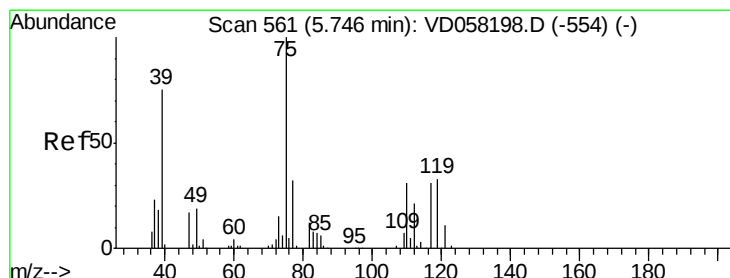
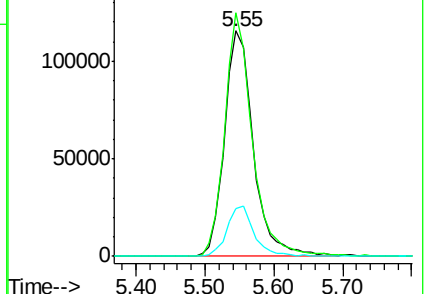
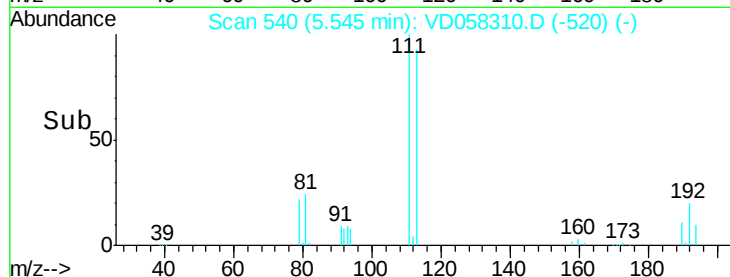
192 21.1 17.8 26.6



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: 6.462 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.11 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

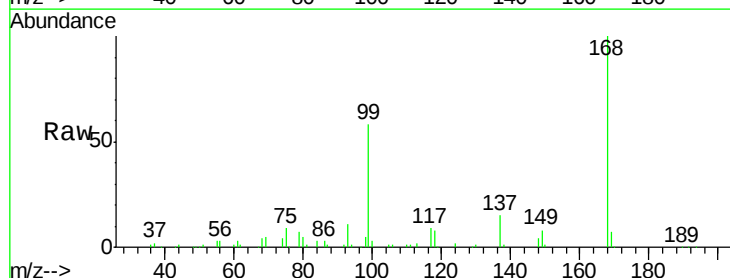
Tgt Ion: 75 Resp: 48608

Ion Ratio Lower Upper

75 100

110 9.0 15.4 46.4#

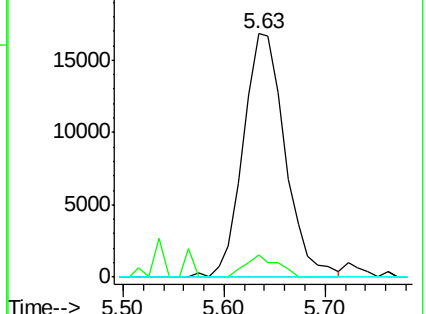
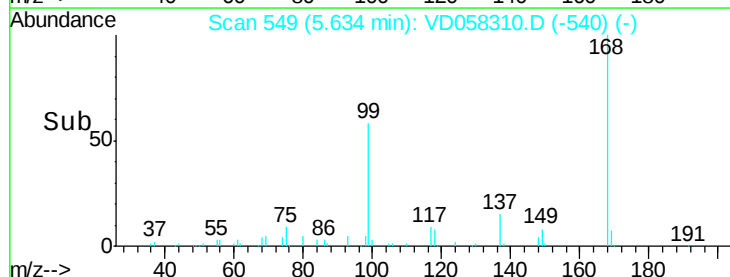
77 0.0 25.4 38.2#

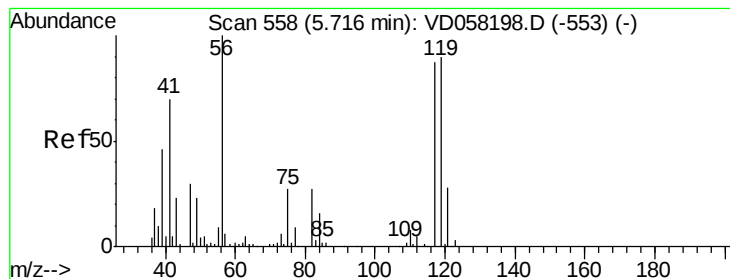


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 6.752 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.07 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

MSVOA_D

ClientSampleId :

WP021SB470-29-31-180618

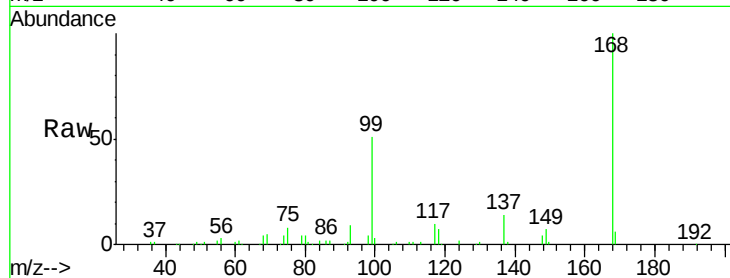
Tot Ion:117 Resp: 50465

Ion Ratio Lower Upper

117 100

119 2.6 78.8 118.2#

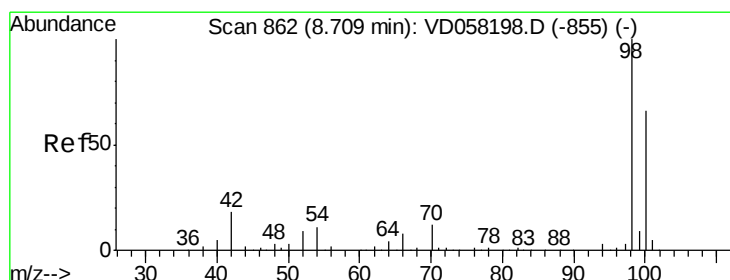
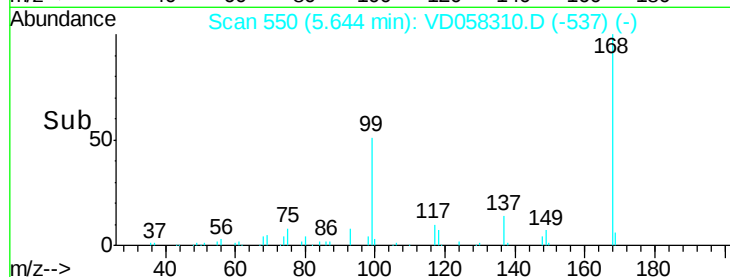
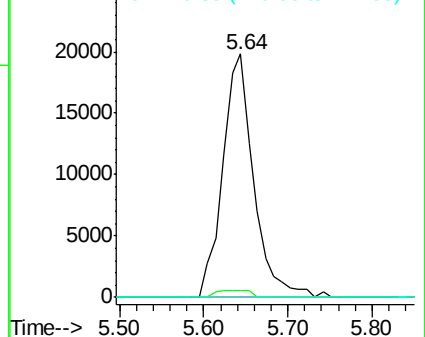
121 0.0 25.0 37.6#



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: 8.71 min Scan# 861

Delta R.T. -0.00 min

Lab File: VD058310.D

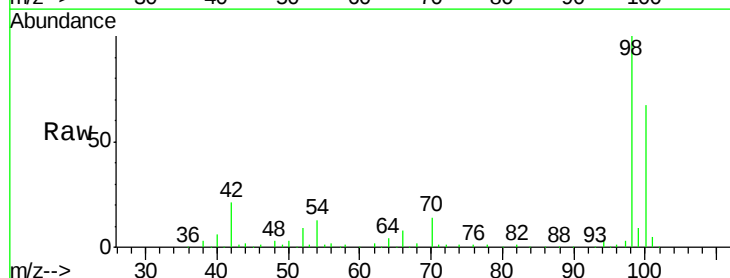
Acq: 22 Jun 2018 21:40

Tgt Ion: 98 Resp: 785165

Ion Ratio Lower Upper

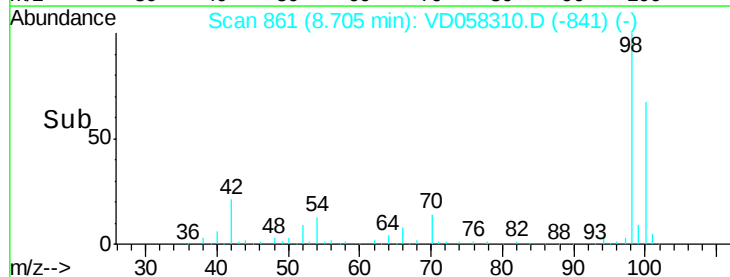
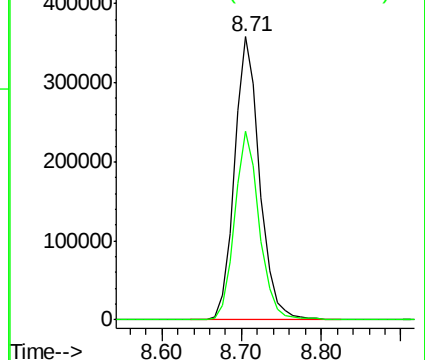
98 100

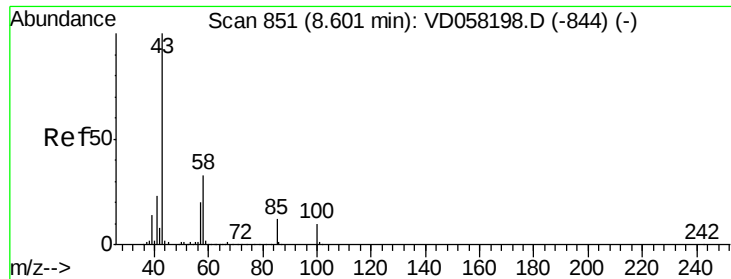
100 66.6 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.428 ug/l

RT: 8.65 min Scan# 855

Delta R.T. 0.05 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

MSVOA_D

ClientSampleId :

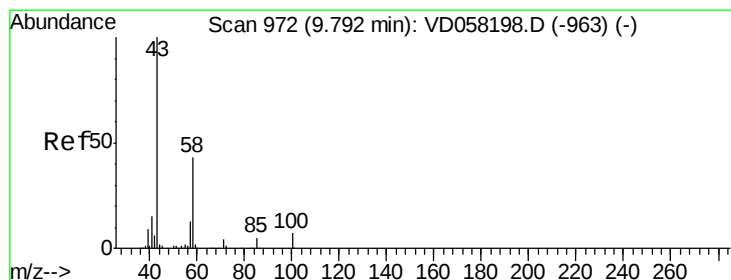
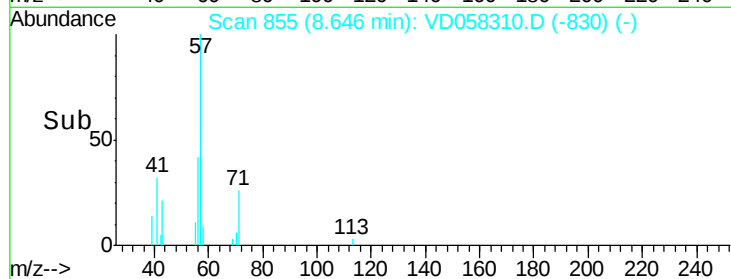
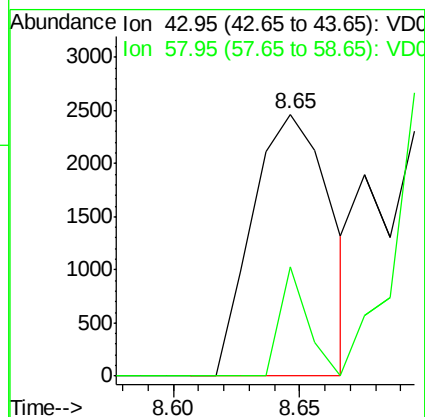
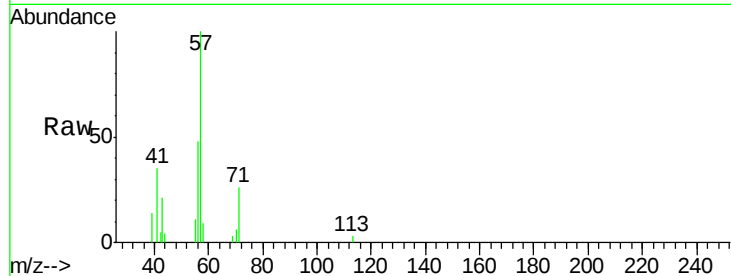
WP021SB470-29-31-180618

Tot Ion: 43 Resp: 5323

Ion Ratio Lower Upper

43 100

58 41.8 26.7 40.1#



#59

2-Hexanone

Concen: 21.549 ug/l

RT: 9.74 min Scan# 966

Delta R.T. -0.05 min

Lab File: VD058310.D

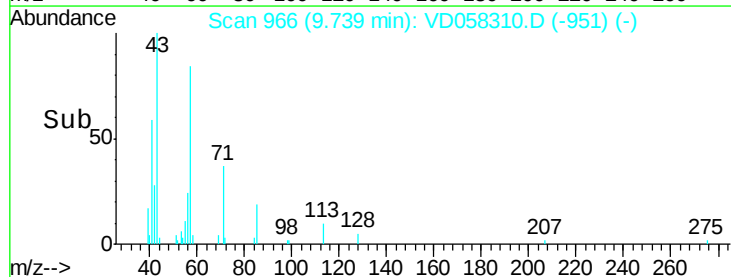
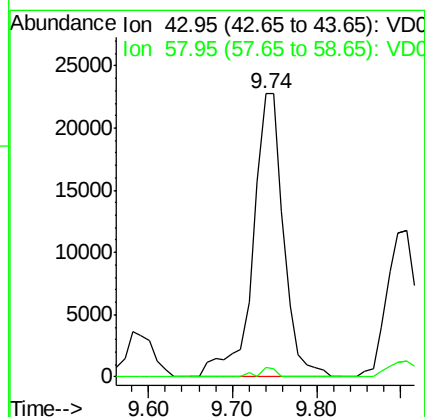
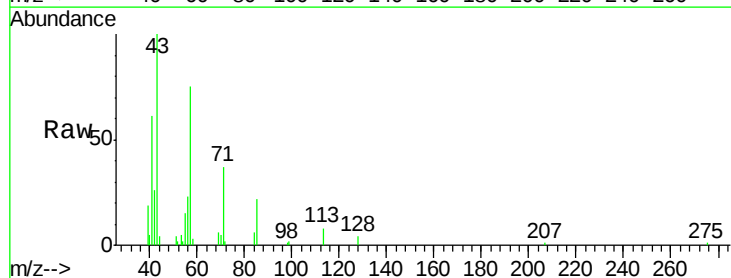
Acq: 22 Jun 2018 21:40

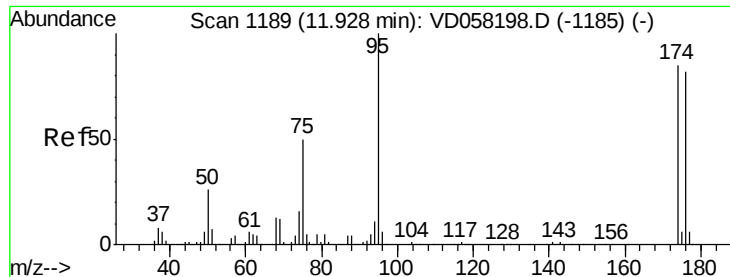
Tgt Ion: 43 Resp: 58028

Ion Ratio Lower Upper

43 100

58 3.4 21.7 65.1#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

MSVOA_D

ClientSampleId :

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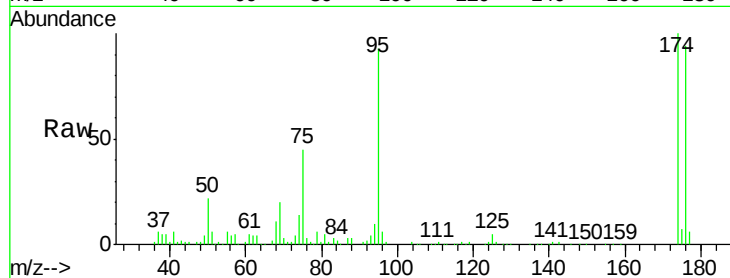
Tot Ion: 95 Resp: 353086

Ion Ratio Lower Upper

95 100

174 107.5 0.0 170.2

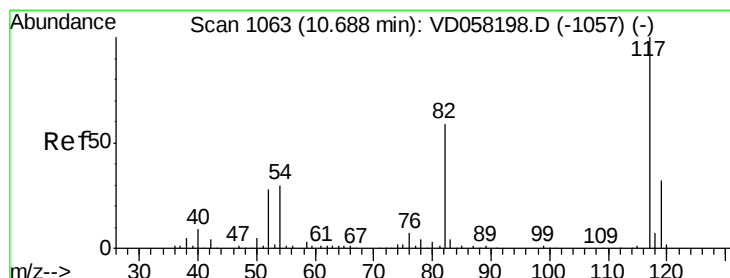
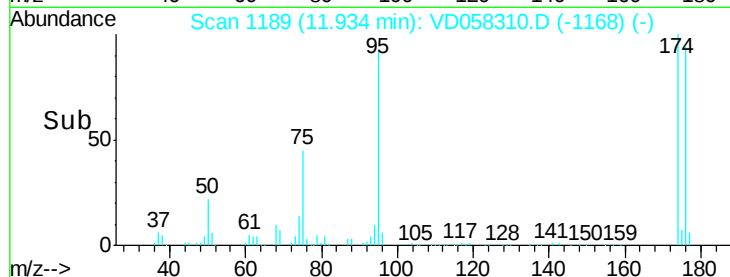
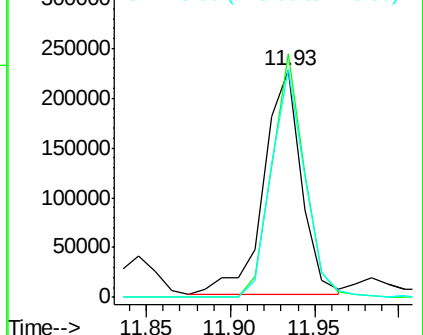
176 100.9 0.0 164.6



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: 10.68 min Scan# 1062

Delta R.T. -0.00 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

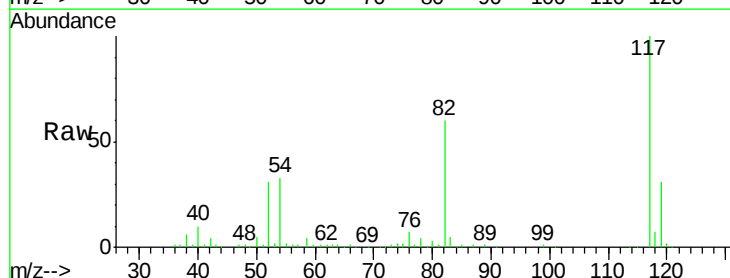
Tgt Ion: 117 Resp: 647351

Ion Ratio Lower Upper

117 100

82 60.5 47.0 70.6

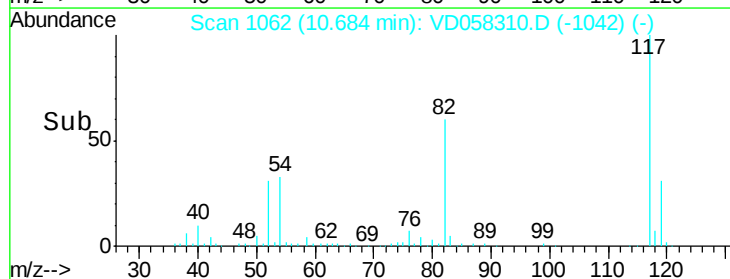
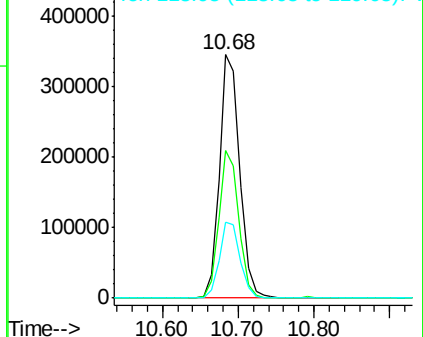
119 31.1 25.3 37.9

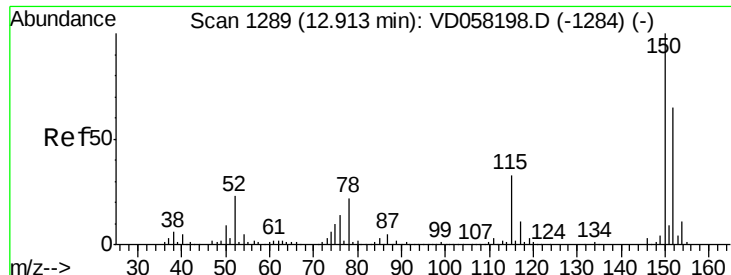


Abundance Ion 116.95 (116.65 to 117.65): V

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# 1288

Delta R.T. -0.00 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

MSVOA_D

ClientSampleId :

WP021SB470-29-31-180618

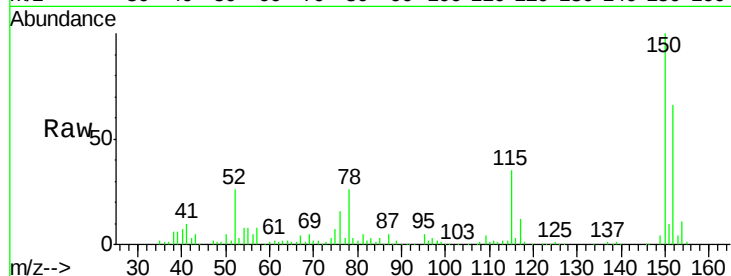
Tot Ion:152 Resp: 338056

Ion Ratio Lower Upper

152 100

115 53.2 25.1 75.3

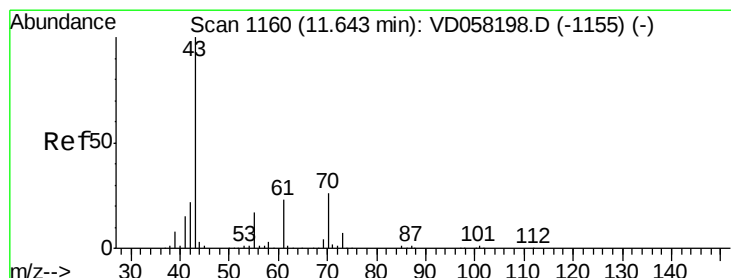
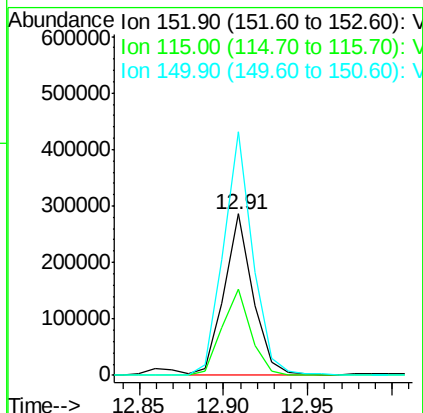
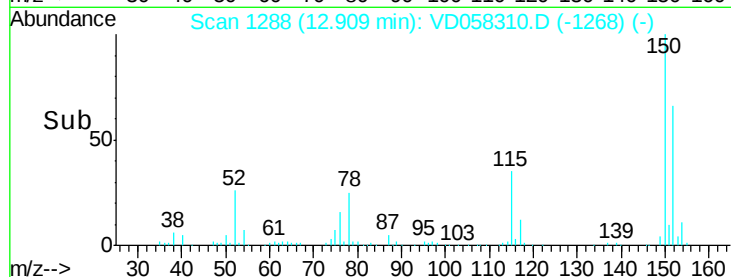
150 150.6 0.0 308.8



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



#74

N-ethyl acetate

Concen: 20.192 ug/l

RT: 11.67 min Scan# 1162

Delta R.T. 0.03 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Tgt Ion: 43 Resp: 157873

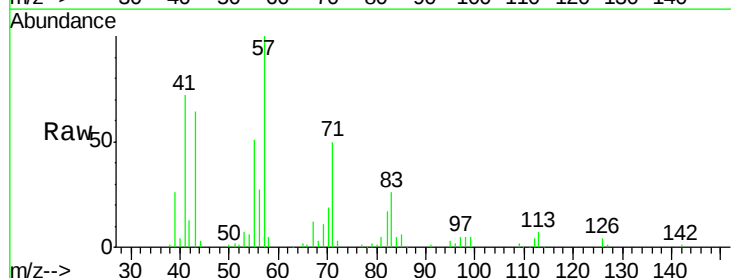
Ion Ratio Lower Upper

43 100

70 28.9 20.9 31.3

55 78.7 13.5 20.3#

61 0.0 18.2 27.2#

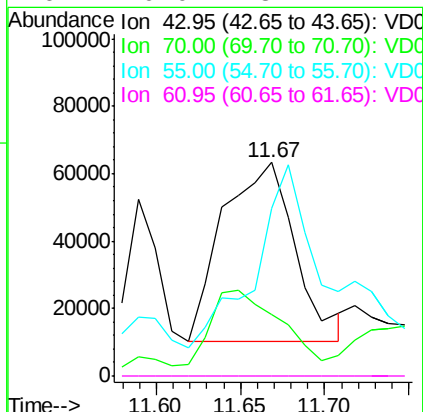
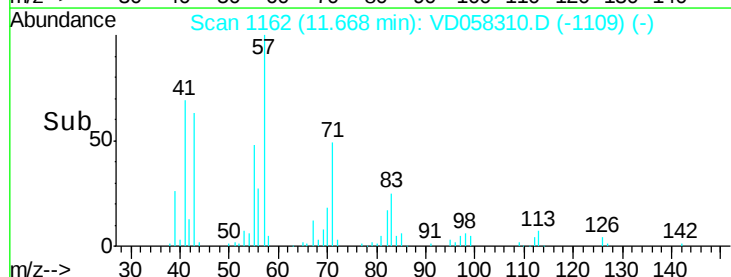


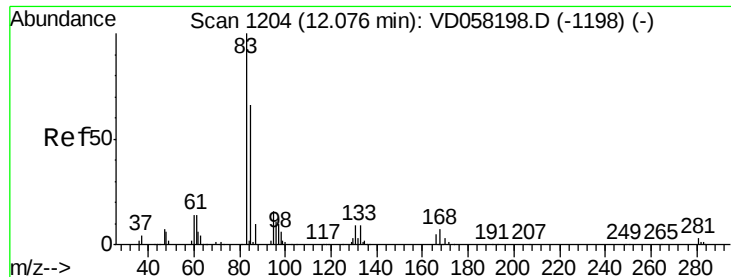
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 7.416 ug/l

RT: 12.09 min Scan# 1205

Delta R.T. 0.02 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

MSVOA_D

ClientSampleId :

WP021SB470-29-31-180618

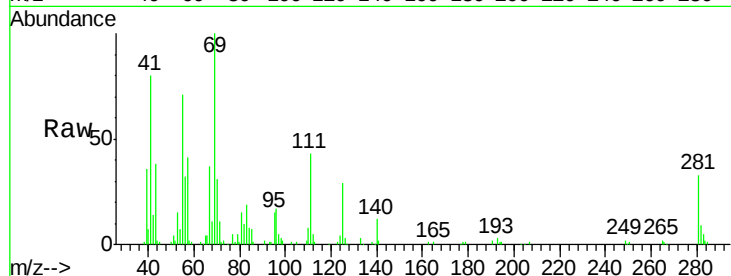
Tot Ion: 83 Resp: 34899

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

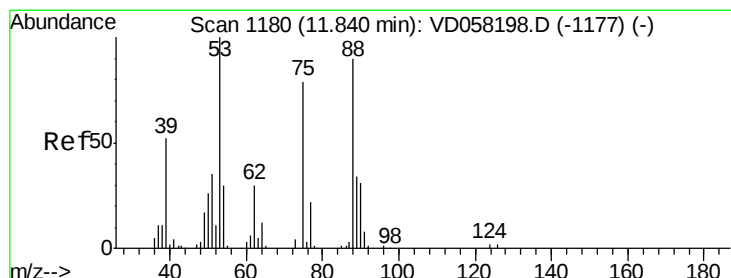
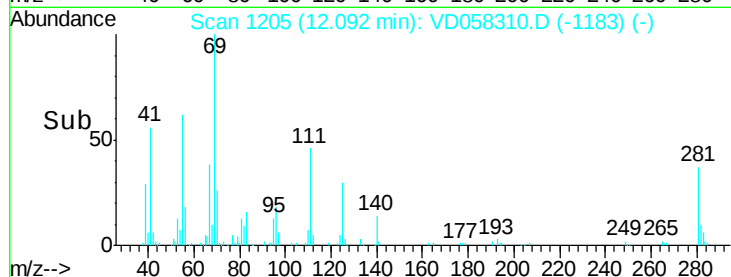
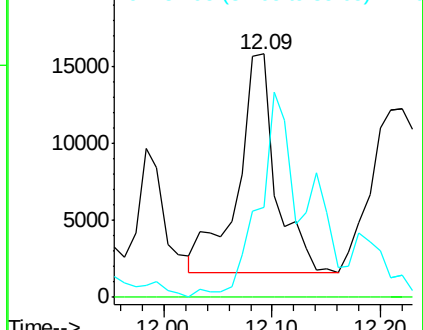
85 37.1 33.1 99.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 138.950 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

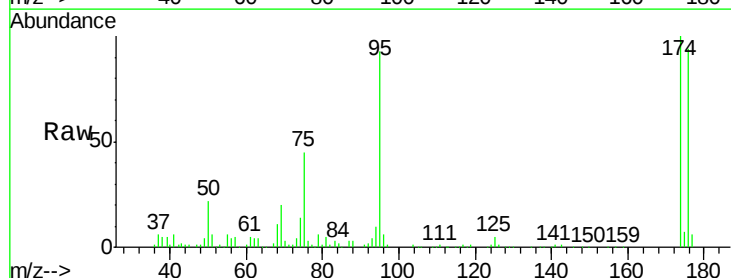
Tgt Ion: 75 Resp: 167266

Ion Ratio Lower Upper

75 100

53 2.8 100.8 151.2#

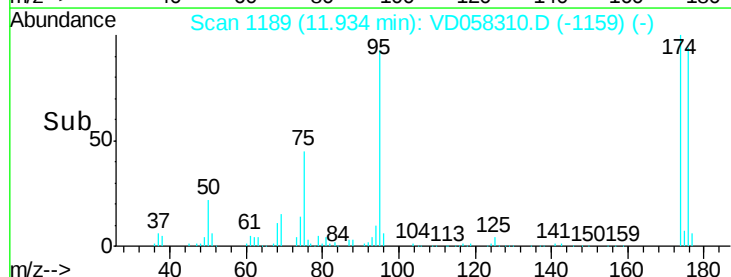
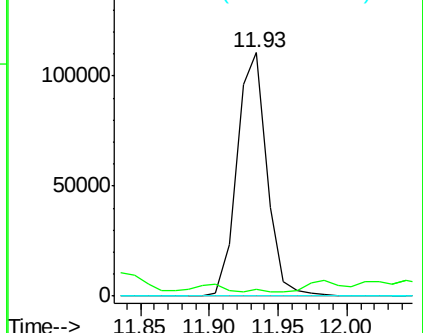
89 0.0 34.6 52.0#

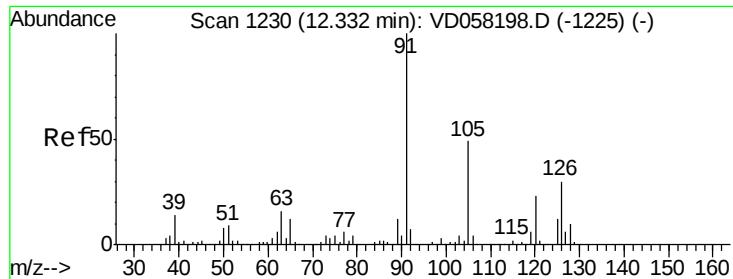


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

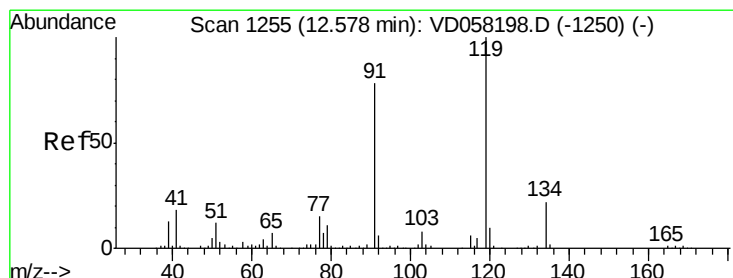
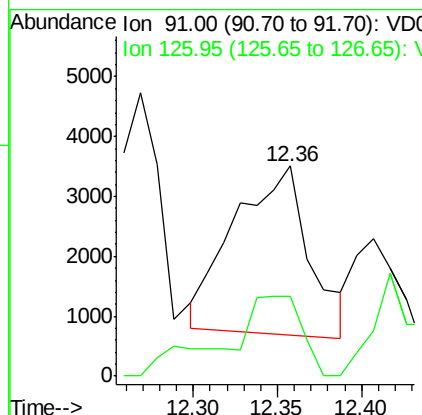
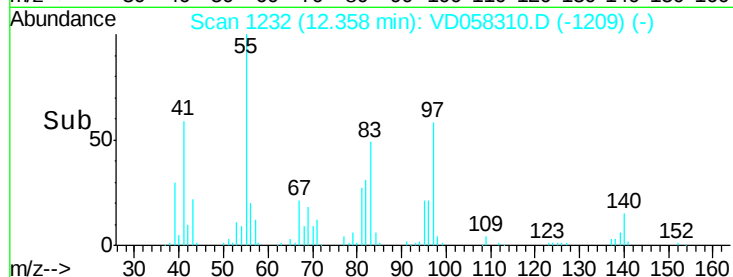
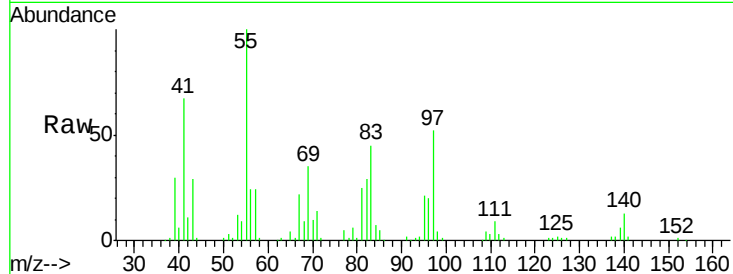




#82
4-Chlorotoluene
Concen: Below Cal
RT: 12.36 min Scan# 1232
Delta R.T. 0.03 min
Lab File: VD058310.D
Acq: 22 Jun 2018 21:40

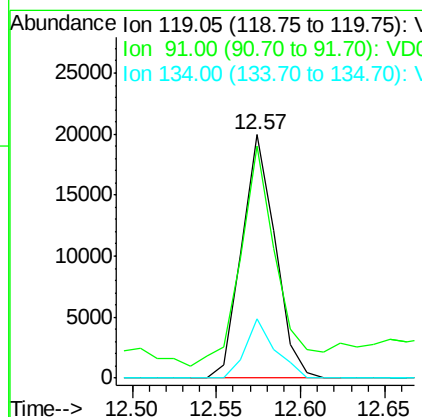
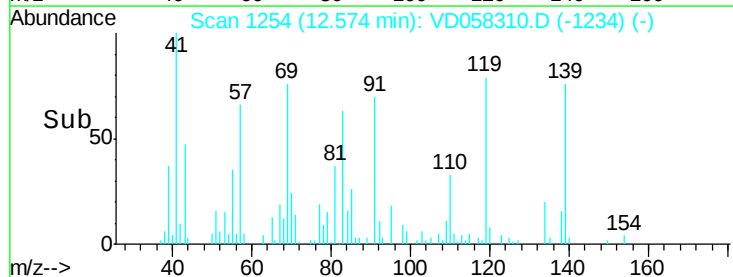
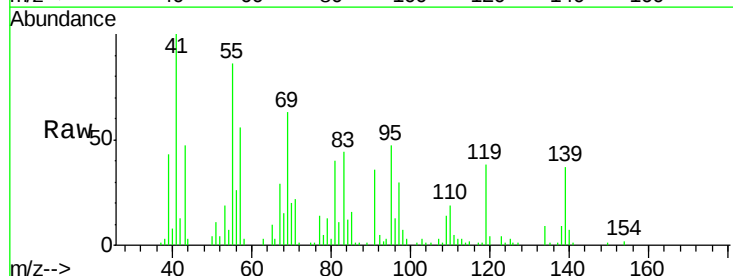
Instrument :
MSVOA_D
ClientSampleId :
WP021SB470-29-31-180618

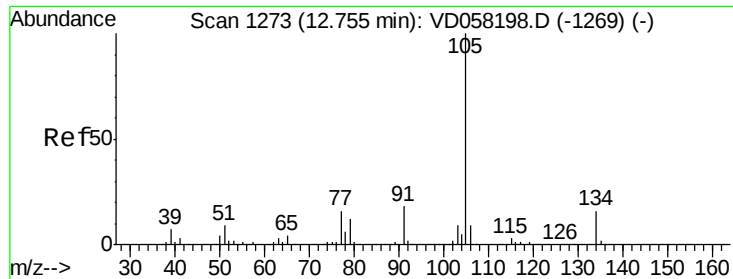
Tot Ion: 91 Resp: 8679
Ion Ratio Lower Upper
91 100
126 38.2 14.9 44.9



#83
tert-Butylbenzene
Concen: 1.515 ug/l
RT: 12.57 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VD058310.D
Acq: 22 Jun 2018 21:40

Tgt Ion: 119 Resp: 27462
Ion Ratio Lower Upper
119 100
91 95.2 38.9 116.6
134 24.6 11.2 33.5





#85

sec-Butylbenzene

Concen: 2.952 ug/l

RT: 12.75 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

MSVOA_D

ClientSampleId :

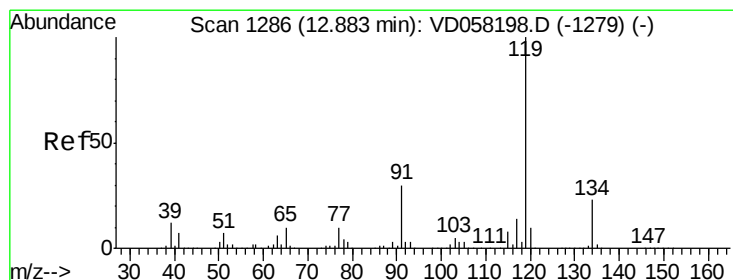
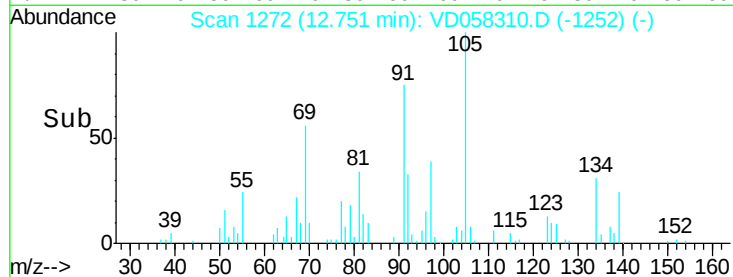
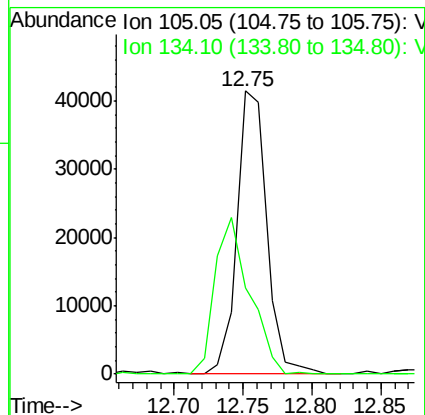
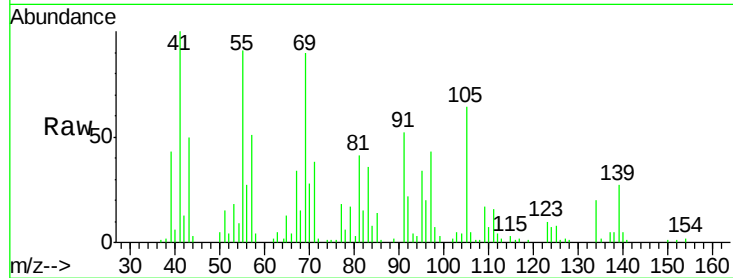
WP021SB470-29-31-180618

Tot Ion:105 Resp: 62744

Ion Ratio Lower Upper

105 100

134 30.5 8.1 24.3#



#86

p-Isopropyltoluene

Concen: 2.804 ug/l

RT: 13.03 min Scan# 1300

Delta R.T. 0.14 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

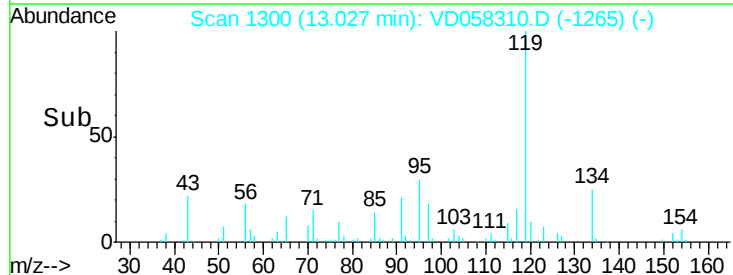
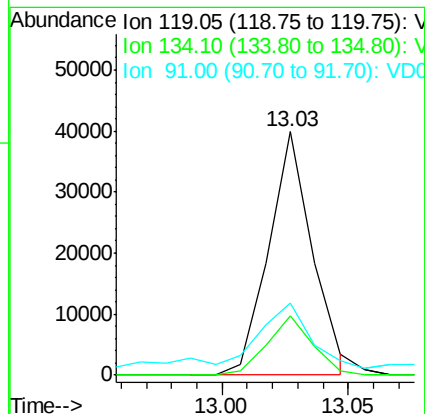
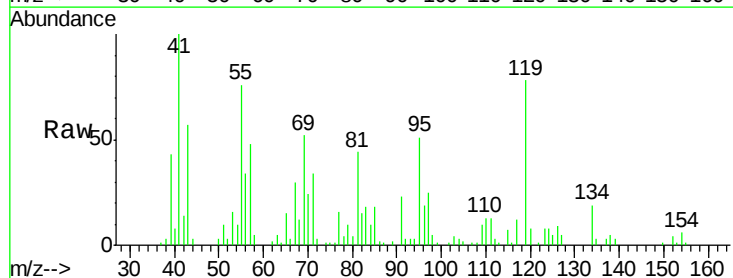
Tgt Ion:119 Resp: 48299

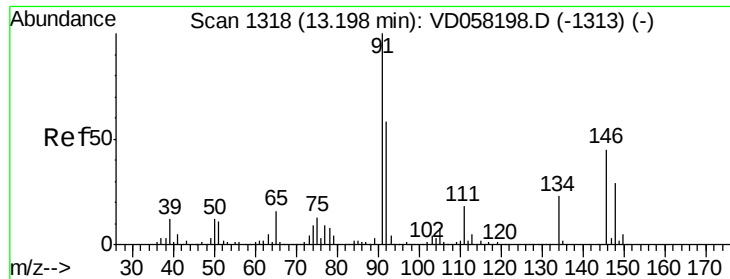
Ion Ratio Lower Upper

119 100

134 24.6 11.6 34.8

91 29.7 15.0 45.1





#89

n-Butylbenzene

Concen: 1.358 ug/l

RT: 13.19 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Instrument :

MSVOA_D

ClientSampleId :

WP021SB470-29-31-180618

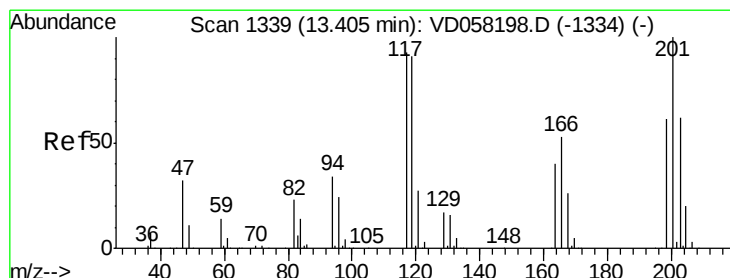
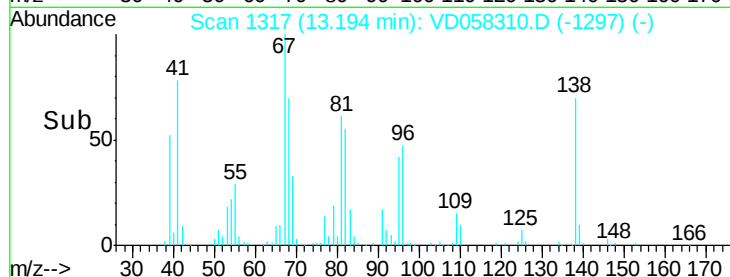
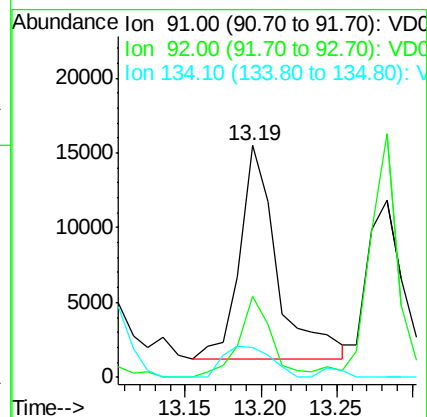
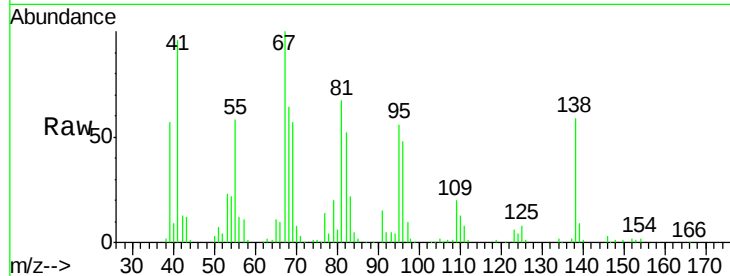
Tot Ion: 91 Resp: 24590

Ion Ratio Lower Upper

91 100

92 34.9 29.2 87.6

134 12.7 11.3 33.8



#90

Hexachloroethane

Concen: 1.403 ug/l

RT: 13.45 min Scan# 1343

Delta R.T. 0.05 min

Lab File: VD058310.D

Acq: 22 Jun 2018 21:40

Tgt Ion: 117 Resp: 6273

Ion Ratio Lower Upper

117 100

201 0.0 53.8 161.4#

