

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058303.D
 Acq On : 22 Jun 2018 18:22
 Operator : VA/AP
 Sample : J3663-06
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-28-30-180618

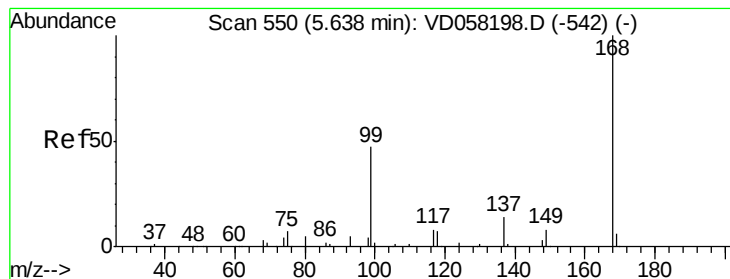
Quant Time: Jun 22 22:20:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	643162	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	878254	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.68	117	754946	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	398075	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	379772	58.46	ug/l	0.00
Spiked Amount						
			Recovery	=	116.92%	
35) Dibromofluoromethane	5.54	113	378064	52.89	ug/l	0.00
Spiked Amount						
			Recovery	=	105.78%	
50) Toluene-d8	8.70	98	844153	48.81	ug/l	0.00
Spiked Amount						
			Recovery	=	97.62%	
62) 4-Bromofluorobenzene	11.92	95	382838	54.19	ug/l	0.00
Spiked Amount						
			Recovery	=	108.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.33	85	412	Below Cal	#	43
3) Chloromethane	1.48	50	205	Below Cal	#	43
11) Tert butyl alcohol	3.25	59	1008	4.704	ug/l #	78
13) Acrolein	2.53	56	389	3.180	ug/l #	79
16) Acetone	2.61	43	32486	36.565	ug/l #	83
17) Carbon Disulfide	2.75	76	15199	2.022	ug/l #	87
18) Methyl Acetate	2.92	43	2252	1.189	ug/l #	65
25) 2-Butanone	4.84	43	14502	7.489	ug/l #	78
31) Cyclohexane	5.63	56	15846	Below Cal	#	1
36) 1,1-Dichloropropene	5.63	75	51545	5.933	ug/l #	48
38) Carbon Tetrachloride	5.63	117	52641	6.098	ug/l #	15
65) Chlorobenzene	10.72	112	20337	1.440	ug/l	99
74) N-amyl acetate	11.67	43	12959	1.408	ug/l #	52
81) trans-1,4-Dichloro-2-buten	11.92	75	182035	128.419	ug/l #	1
82) 4-Chlorotoluene	12.32	91	2406	Below Cal	#	45
87) 1,3-Dichlorobenzene	12.93	146	13615	1.099	ug/l	86
88) 1,4-Dichlorobenzene	12.93	146	13615	1.125	ug/l	85
91) 1,2-Dichlorobenzene	13.19	146	59106	5.604	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.01 min

Lab File: VD058303.D

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Instrument :

MSVOA_D

ClientSampleId :

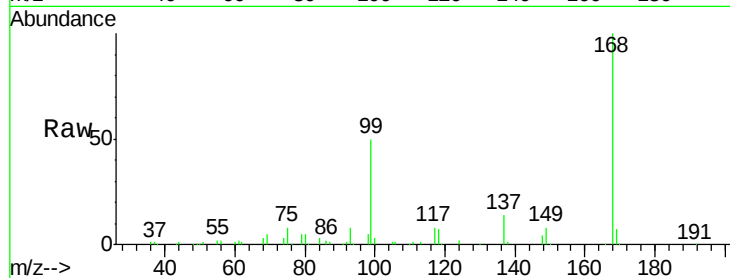
WP021SB472-28-30-180618

Tot Ion:168 Resp: 643162

Ion Ratio Lower Upper

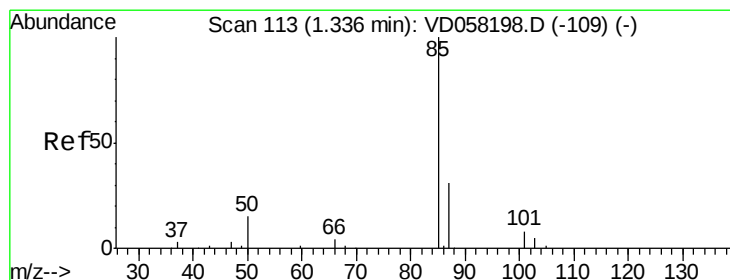
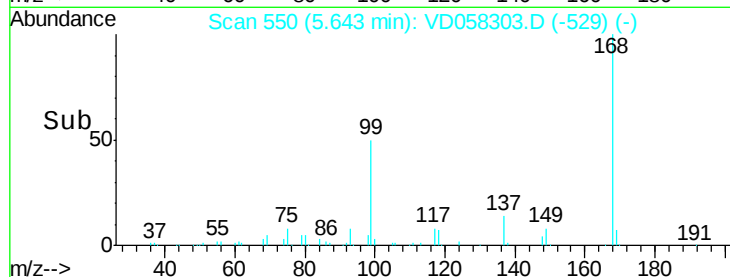
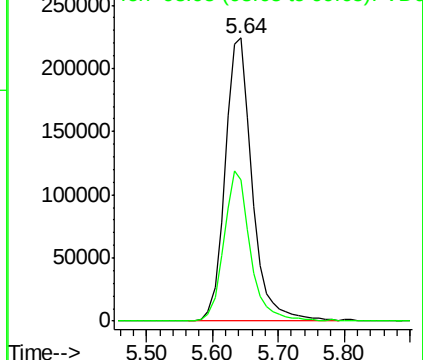
168 100

99 50.0 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: 1.33 min Scan# 112

Delta R.T. -0.00 min

Lab File: VD058303.D

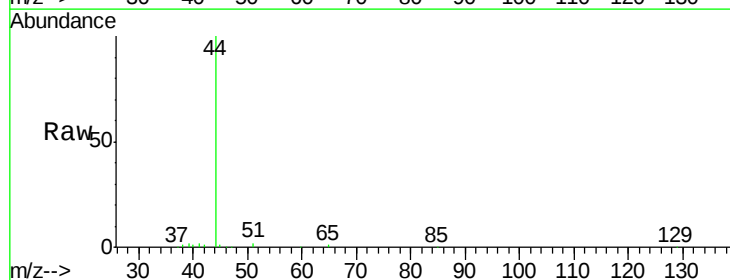
Acq: 22 Jun 2018 18:22

Tgt Ion: 85 Resp: 412

Ion Ratio Lower Upper

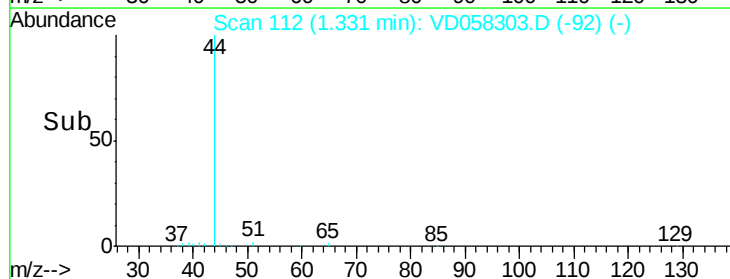
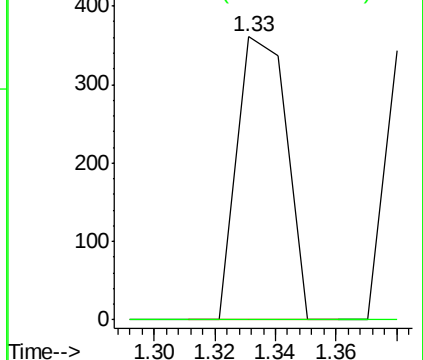
85 100

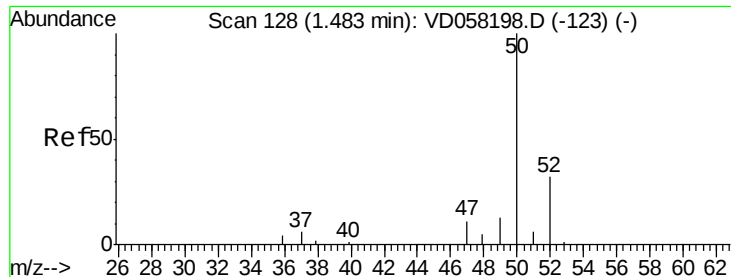
87 0.0 15.7 47.0#



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: 1.48 min Scan# 127

Delta R.T. -0.00 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

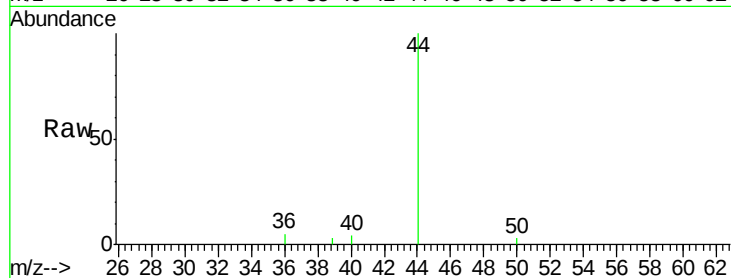
WP021SB472-28-30-180618

Tot Ion: 50 Resp: 205

Ion Ratio Lower Upper

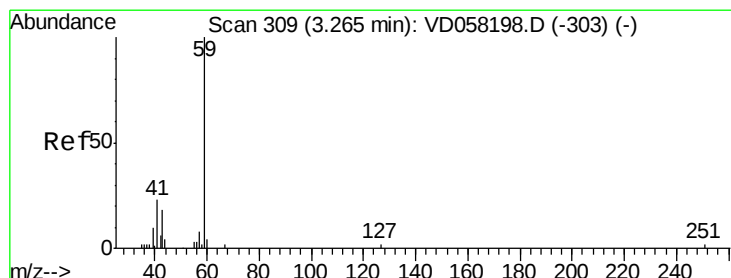
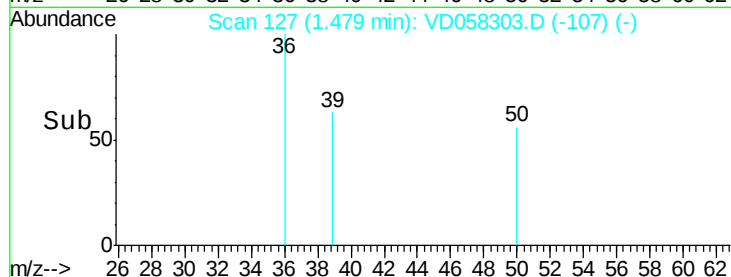
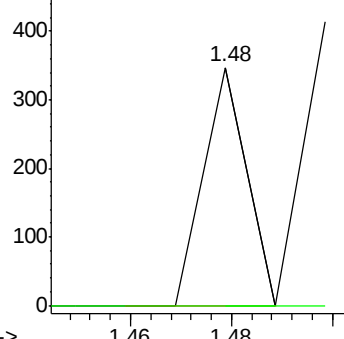
50 100

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: 4.704 ug/l

RT: 3.25 min Scan# 307

Delta R.T. -0.01 min

Lab File: VD058303.D

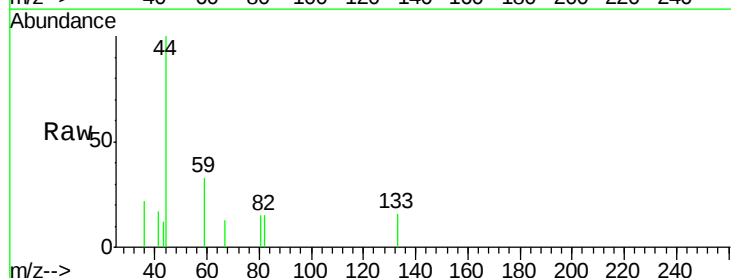
Acq: 22 Jun 2018 18:22

Tgt Ion: 59 Resp: 1008

Ion Ratio Lower Upper

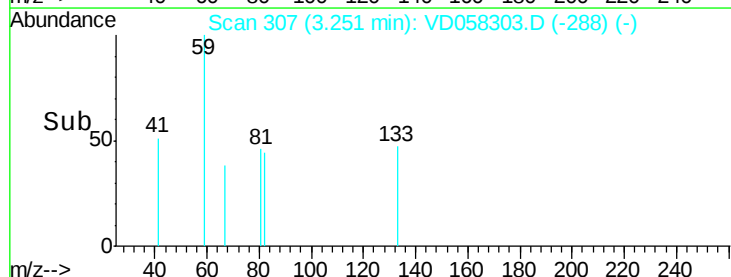
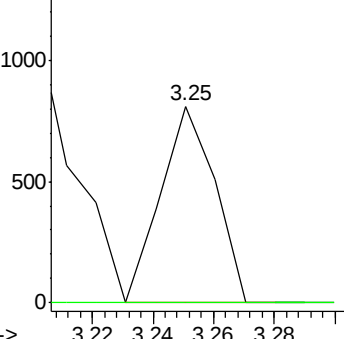
59 100

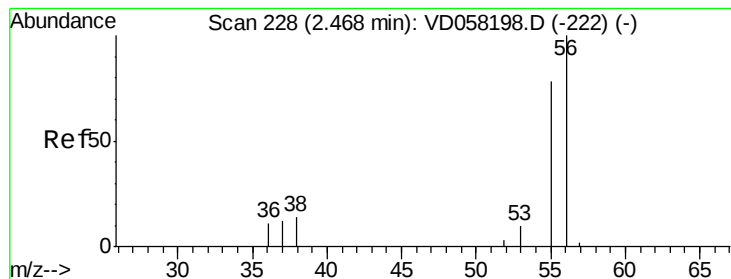
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 3.180 ug/l

RT: 2.53 min Scan# 234

Delta R.T. 0.06 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

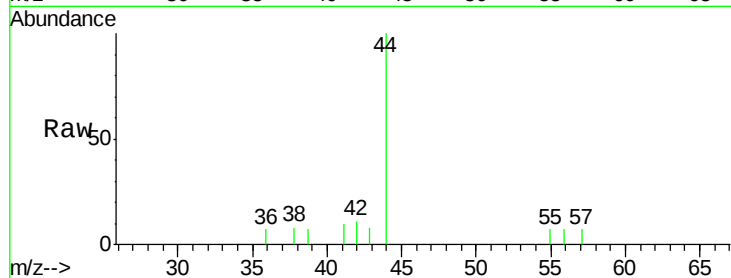
WP021SB472-28-30-180618

Tot Ion: 56 Resp: 389

Ion Ratio Lower Upper

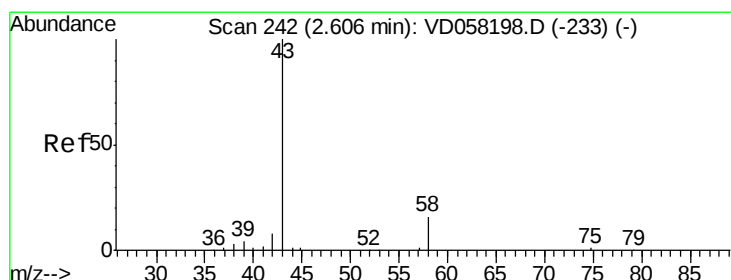
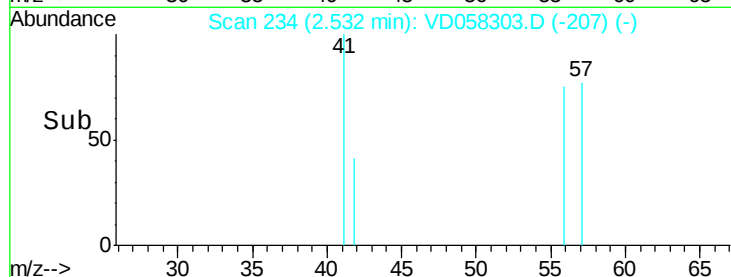
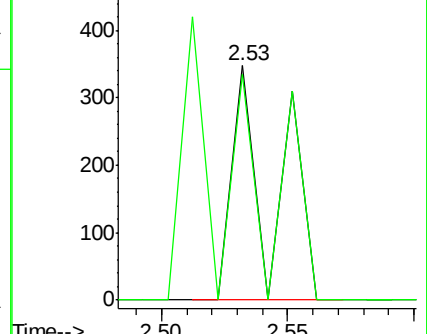
56 100

55 96.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 36.565 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD058303.D

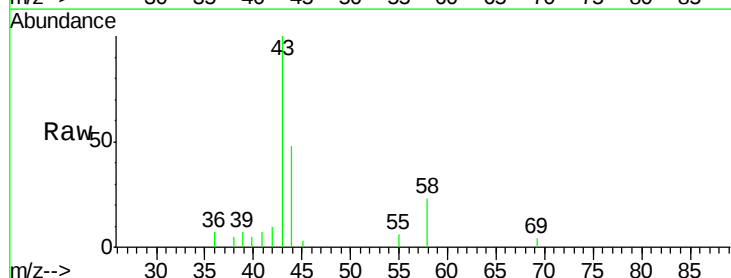
Acq: 22 Jun 2018 18:22

Tgt Ion: 43 Resp: 32486

Ion Ratio Lower Upper

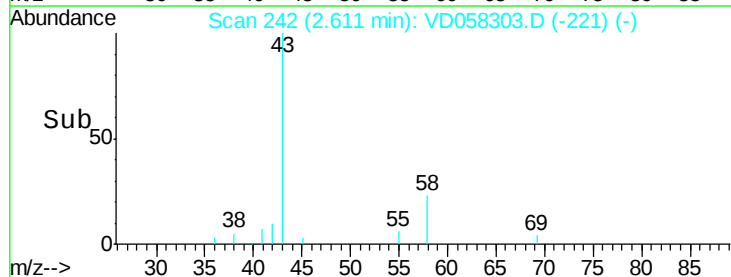
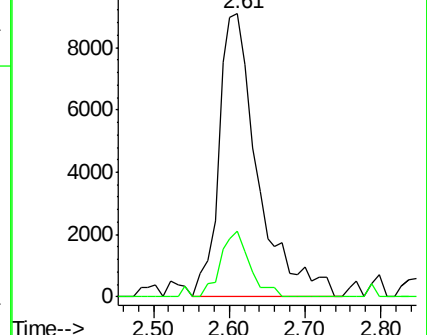
43 100

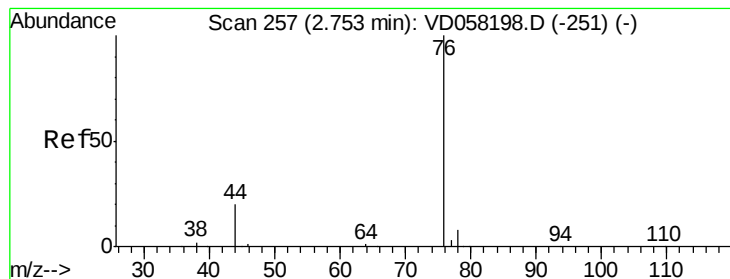
58 23.2 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 2.022 ug/l

RT: 2.75 min Scan# 256

Delta R.T. -0.00 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

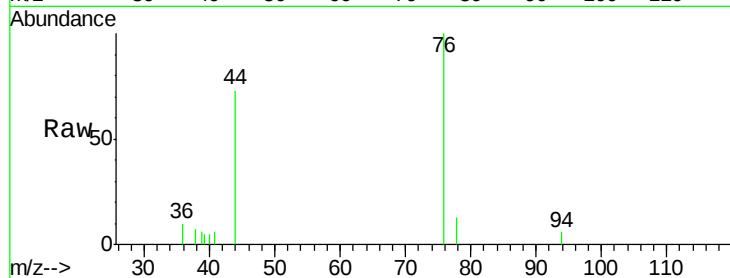
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Tot Ion: 76 Resp: 15199

Ion Ratio Lower Upper

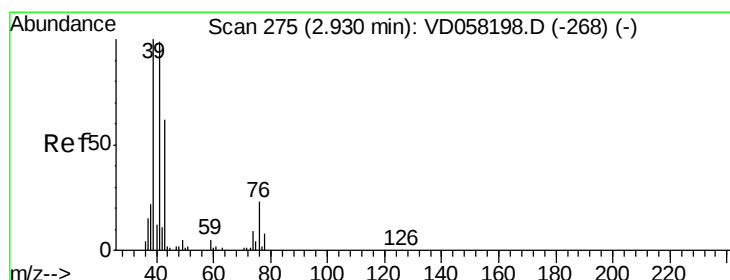
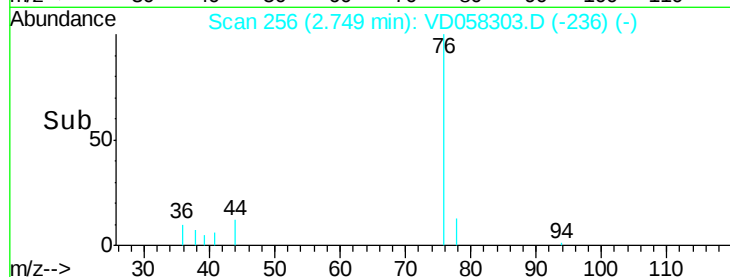
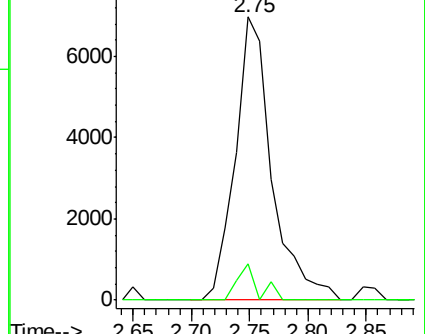
76 100

78 13.1 6.8 10.2#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 1.189 ug/l

RT: 2.92 min Scan# 273

Delta R.T. -0.01 min

Lab File: VD058303.D

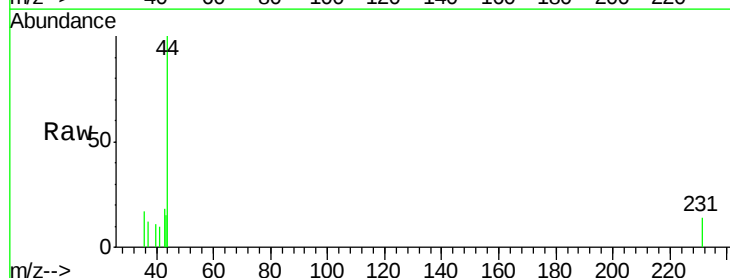
Acq: 22 Jun 2018 18:22

Tgt Ion: 43 Resp: 2252

Ion Ratio Lower Upper

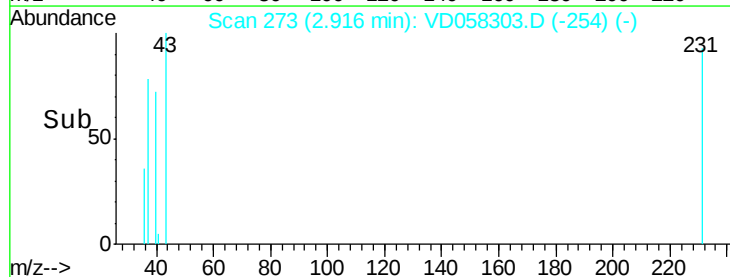
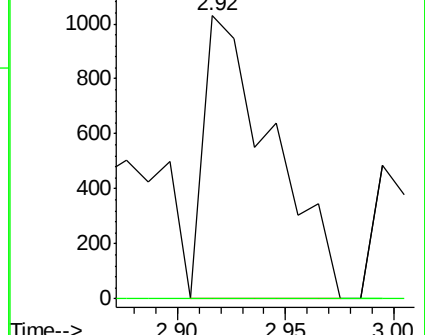
43 100

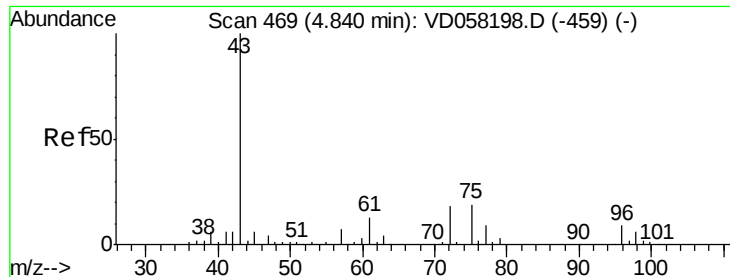
74 0.0 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 7.489 ug/l

RT: 4.84 min Scan# 468

Delta R.T. -0.00 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

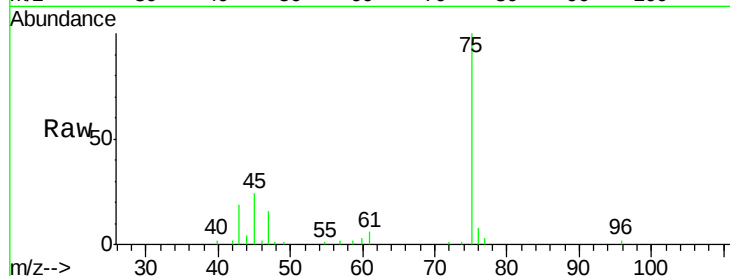
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Tot Ion: 43 Resp: 14502

Ion Ratio Lower Upper

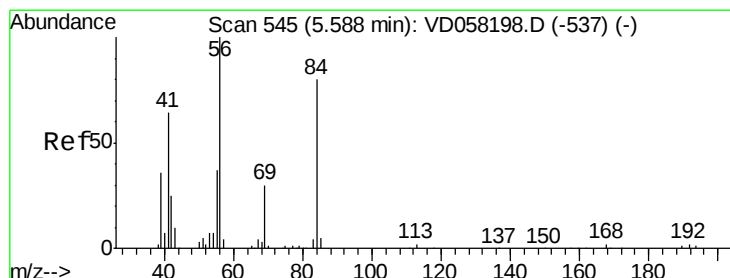
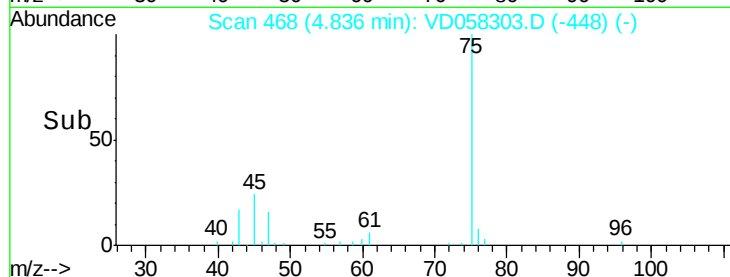
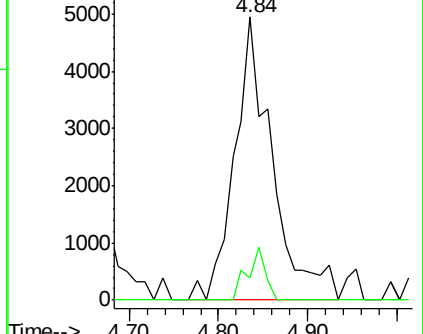
43 100

72 8.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 5.63 min Scan# 549

Delta R.T. 0.05 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

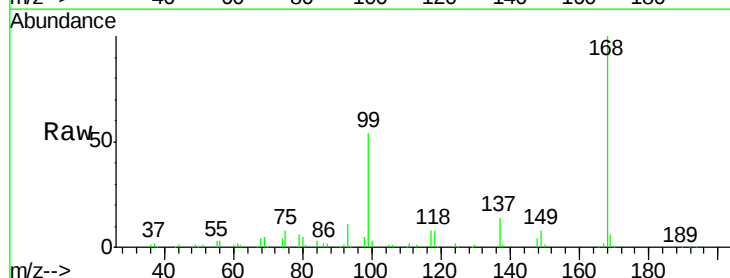
Tgt Ion: 56 Resp: 15846

Ion Ratio Lower Upper

56 100

69 202.5 23.6 35.4#

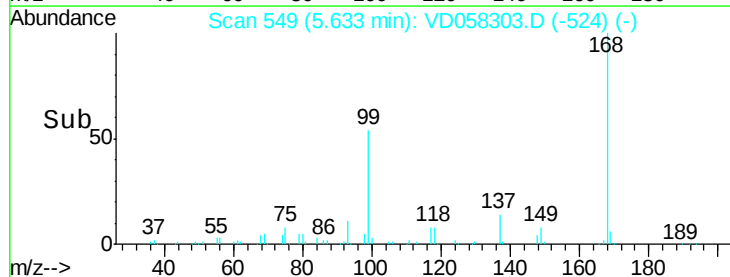
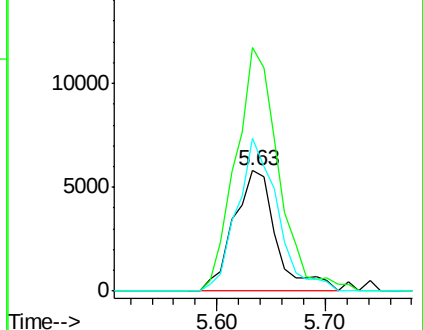
84 127.2 65.2 97.8#

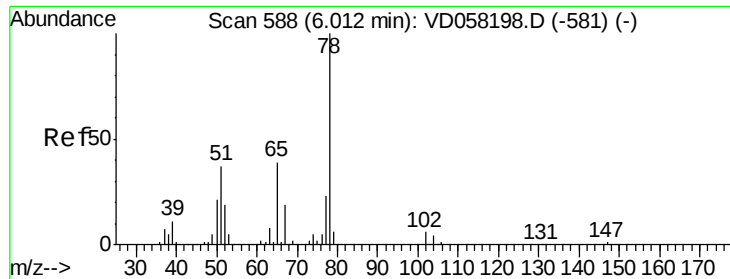


Abundance Ion 55.95 (55.65 to 56.65): VDC

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# 588

Delta R.T. 0.01 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

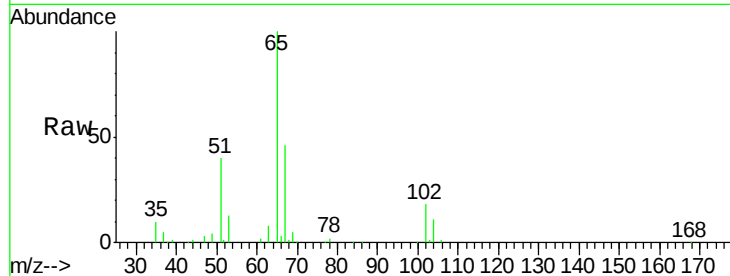
WP021SB472-28-30-180618

Tot Ion: 65 Resp: 379772

Ion Ratio Lower Upper

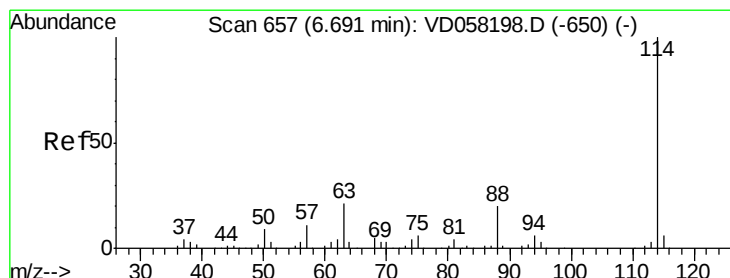
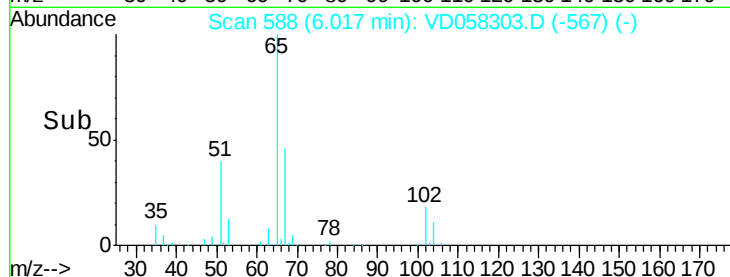
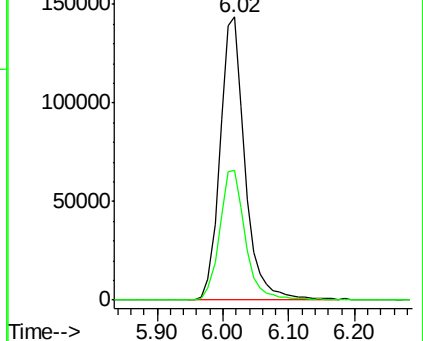
65 100

67 45.9 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: VD058303.D

Acq: 22 Jun 2018 18:22

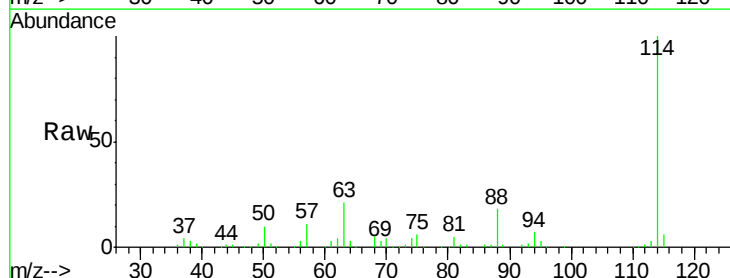
Tgt Ion: 114 Resp: 878254

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.6

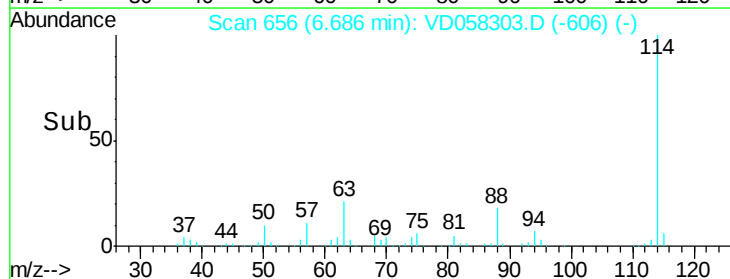
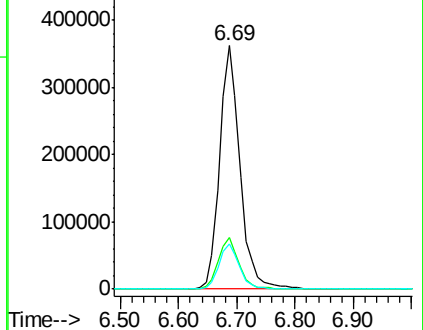
88 18.4 0.0 40.6

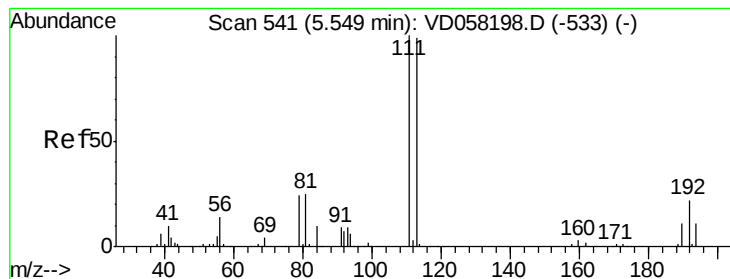


Abundance Ion 114.00 (113.70 to 114.70): V

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: 5.54 min Scan# 540

Delta R.T. -0.00 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

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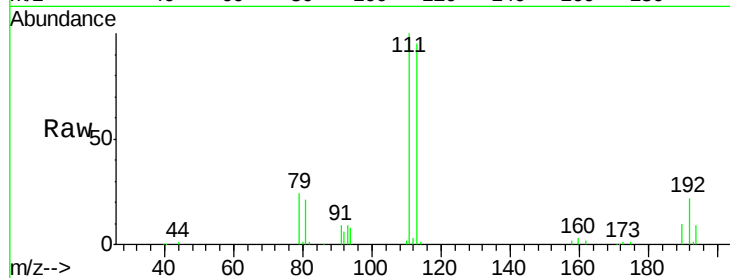
Tot Ion:113 Resp: 378064

Ion Ratio Lower Upper

113 100

111 105.0 80.6 121.0

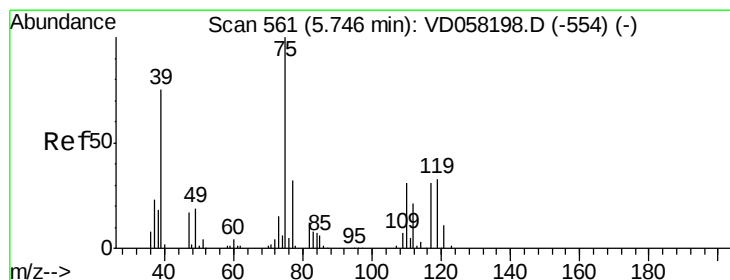
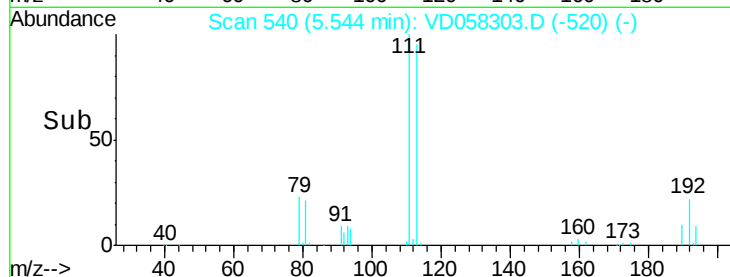
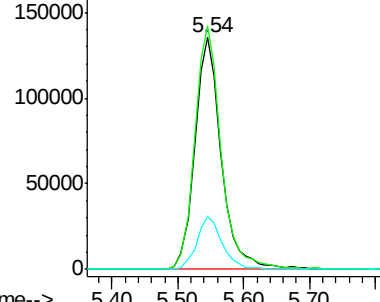
192 22.6 17.8 26.6



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: 5.933 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.11 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

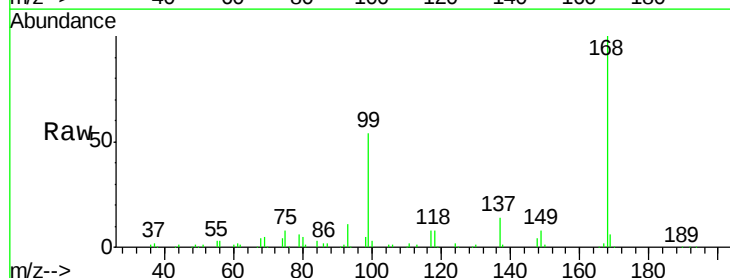
Tgt Ion: 75 Resp: 51545

Ion Ratio Lower Upper

75 100

110 4.7 15.4 46.4#

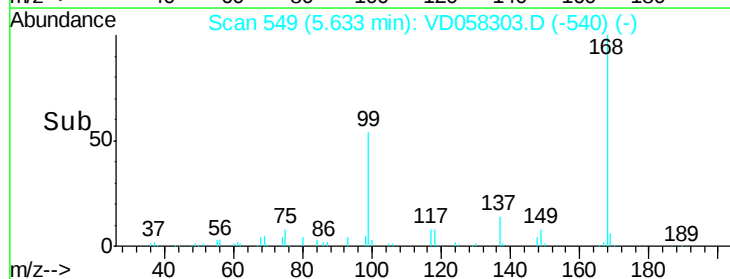
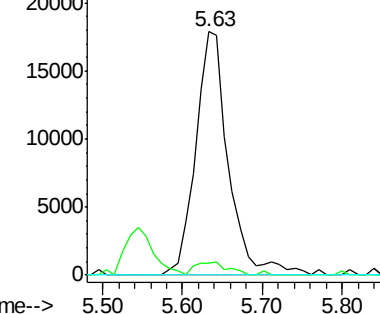
77 0.0 25.4 38.2#

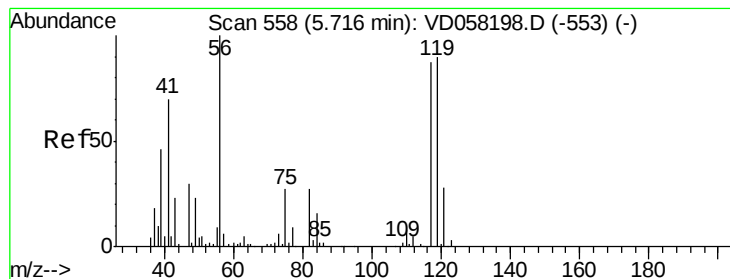


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 6.098 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.08 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-28-30-180618

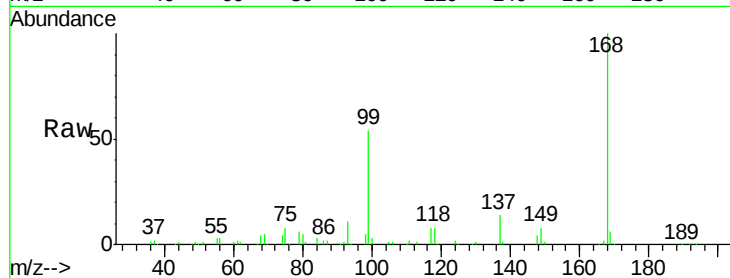
Tot Ion:117 Resp: 52641

Ion Ratio Lower Upper

117 100

119 5.9 78.8 118.2#

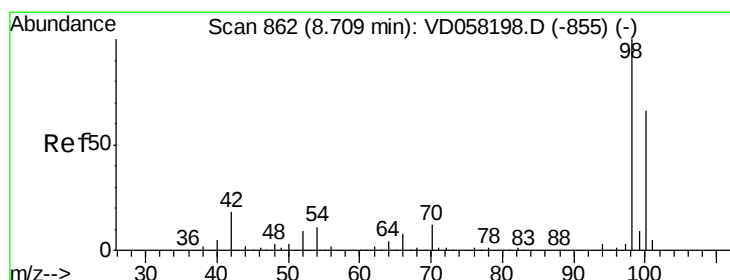
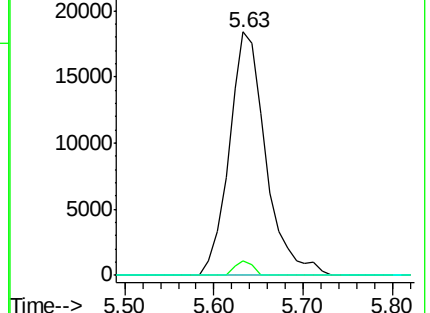
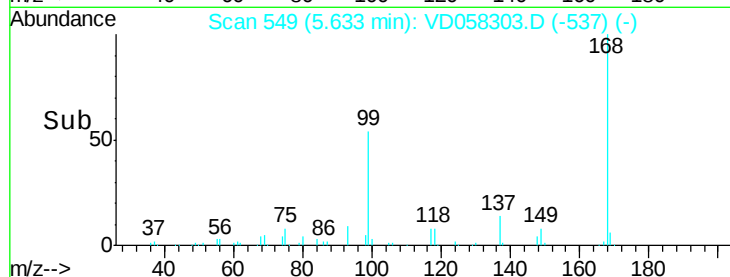
121 0.0 25.0 37.6#



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: 8.70 min Scan# 861

Delta R.T. -0.00 min

Lab File: VD058303.D

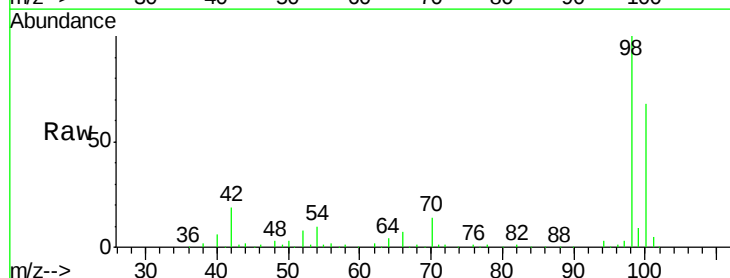
Acq: 22 Jun 2018 18:22

Tgt Ion: 98 Resp: 844153

Ion Ratio Lower Upper

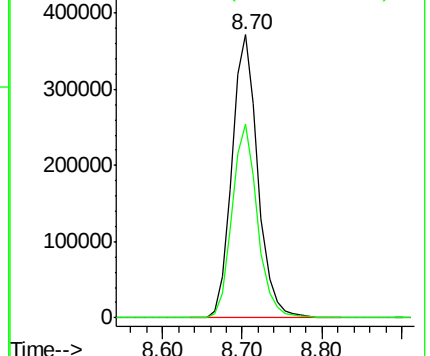
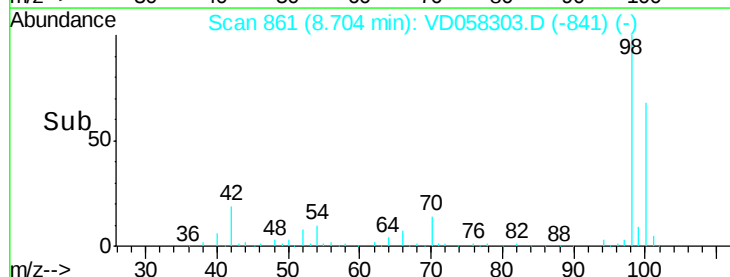
98 100

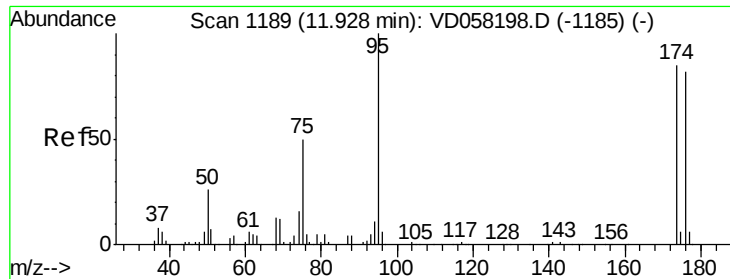
100 68.5 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.92 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-28-30-180618

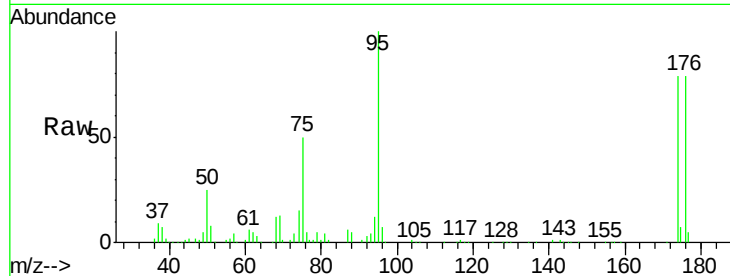
Tot Ion: 95 Resp: 382838

Ion Ratio Lower Upper

95 100

174 78.9 0.0 170.2

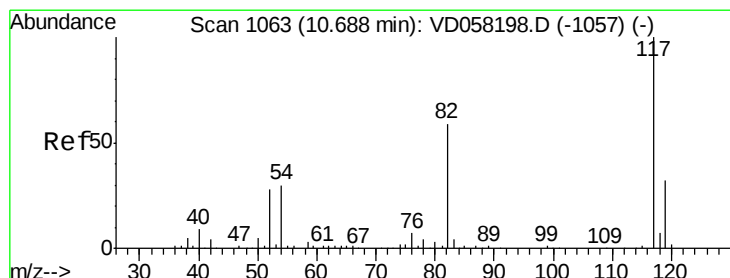
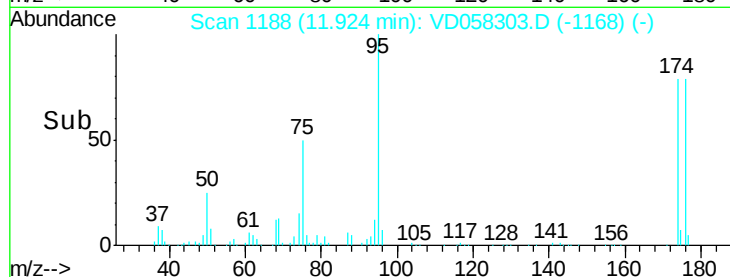
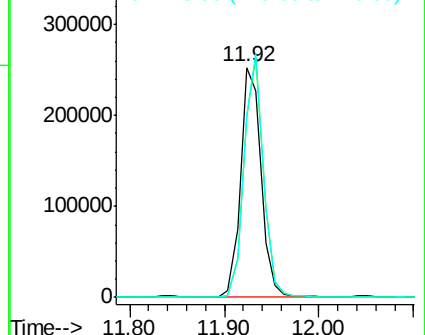
176 79.4 0.0 164.6



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: VD058303.D

Acq: 22 Jun 2018 18:22

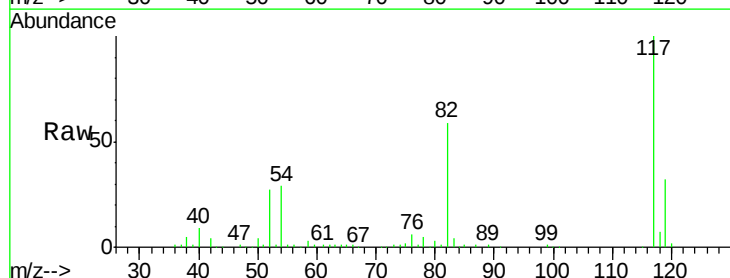
Tgt Ion: 117 Resp: 754946

Ion Ratio Lower Upper

117 100

82 59.3 47.0 70.6

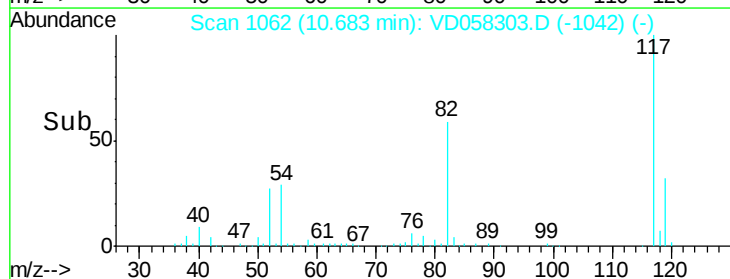
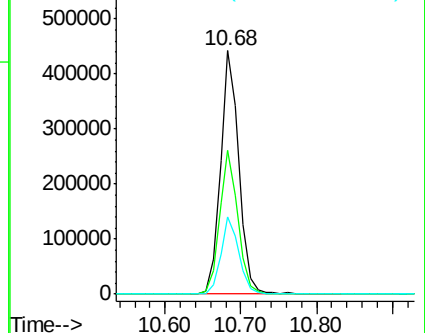
119 31.8 25.3 37.9

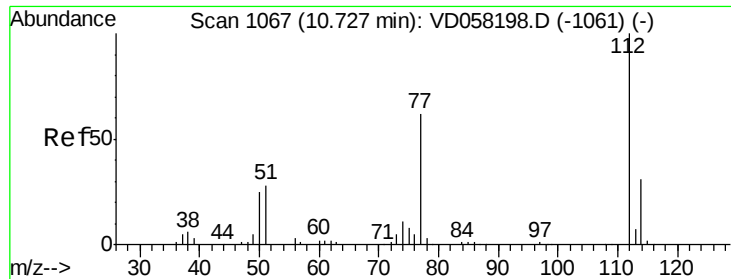


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

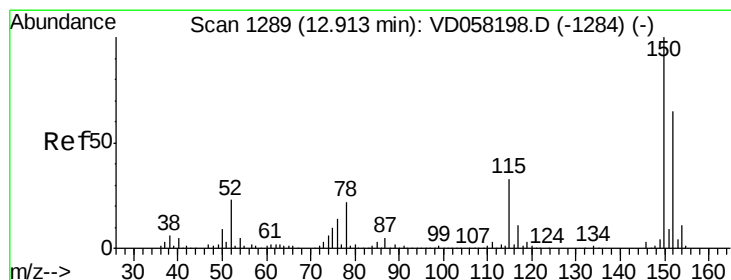
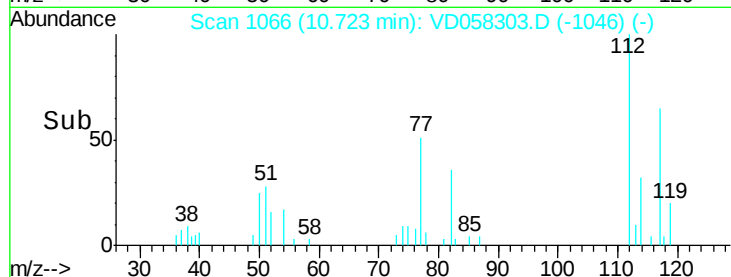
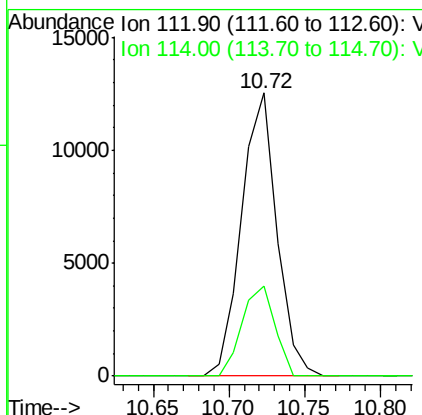
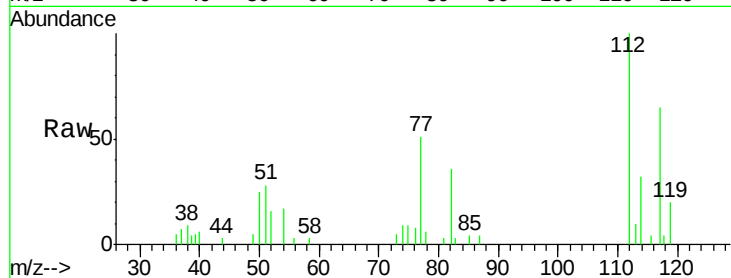




#65
Chlorobenzene
Concen: 1.440 ug/l
RT: 10.72 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VD058303.D
Acq: 22 Jun 2018 18:22

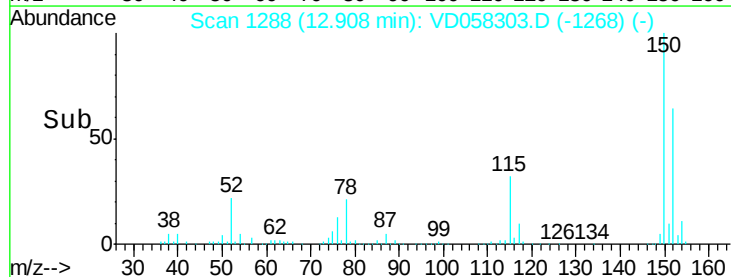
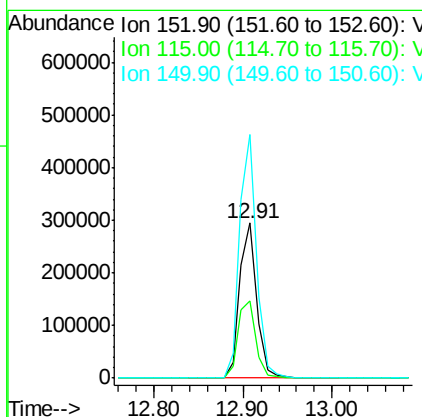
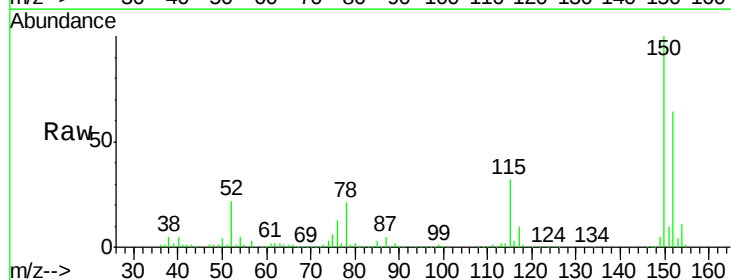
Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-28-30-180618

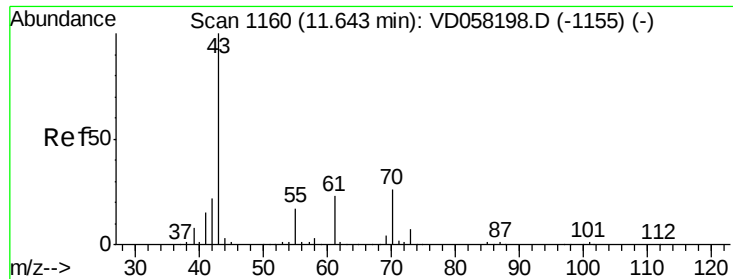
Tot Ion:112 Resp: 20337
Ion Ratio Lower Upper
112 100
114 32.0 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VD058303.D
Acq: 22 Jun 2018 18:22

Tgt Ion:152 Resp: 398075
Ion Ratio Lower Upper
152 100
115 49.6 25.1 75.3
150 157.1 0.0 308.8





#74

N-amvl acetate

Concen: 1.408 ug/l

RT: 11.67 min Scan# 1162

Delta R.T. 0.02 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-28-30-180618

Tot Ion: 43 Resp: 12959

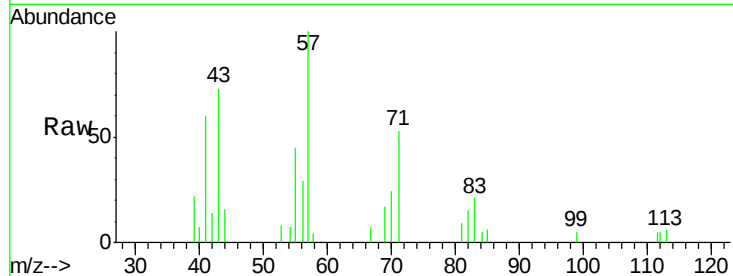
Ion Ratio Lower Upper

43 100

70 32.9 20.9 31.3#

55 61.5 13.5 20.3#

61 0.0 18.2 27.2#

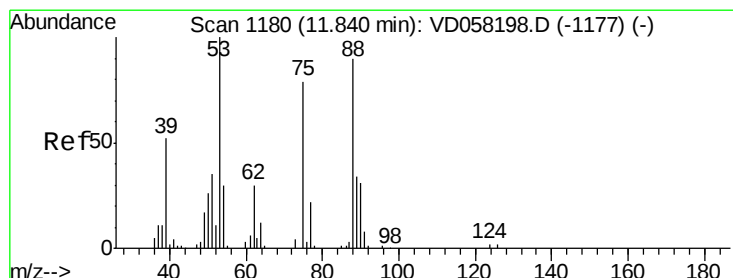
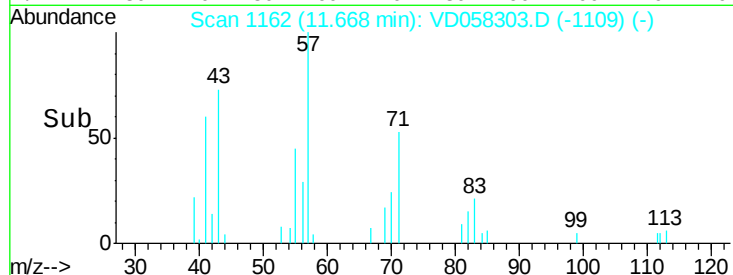
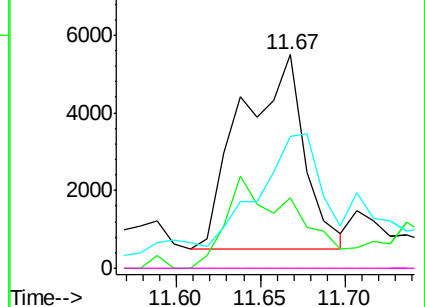


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 128.419 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

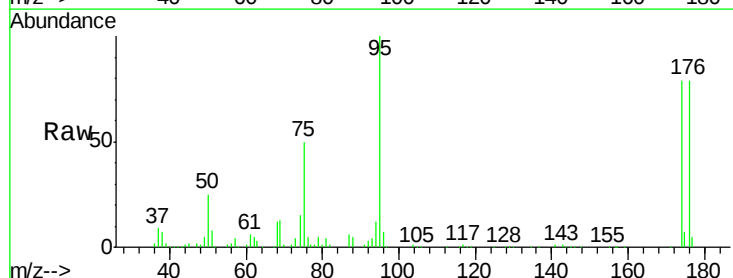
Tgt Ion: 75 Resp: 182035

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

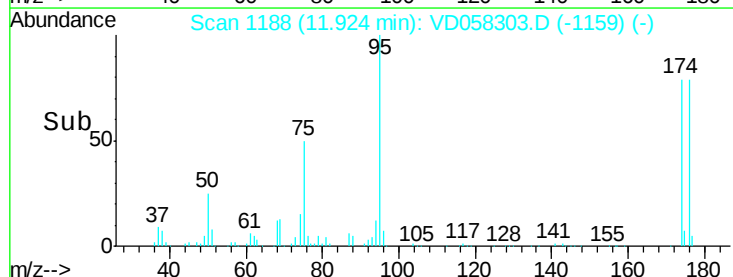
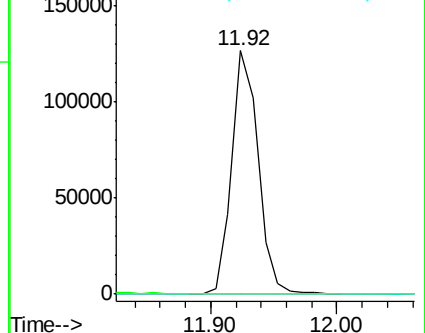
89 0.0 34.6 52.0#

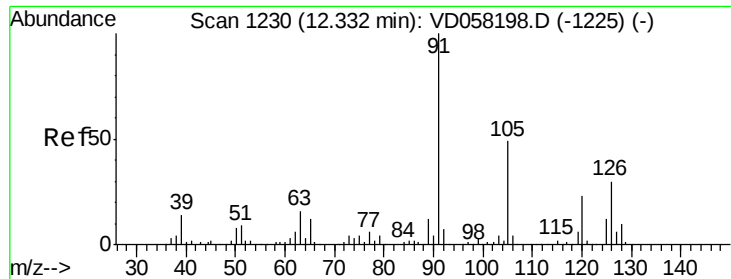


Abundance Ion 75.00 (74.70 to 75.70): VDC

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: 12.32 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

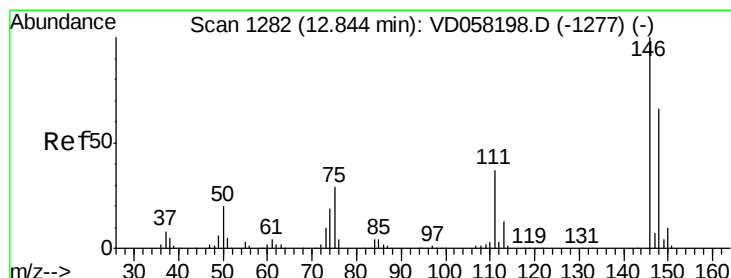
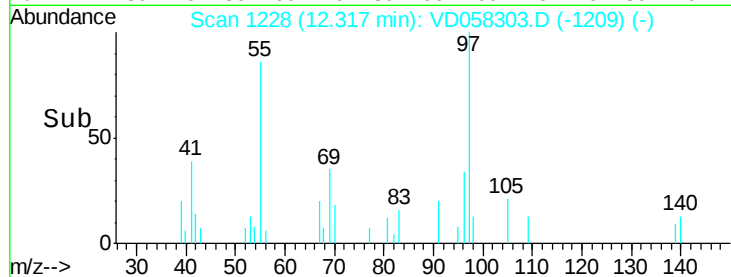
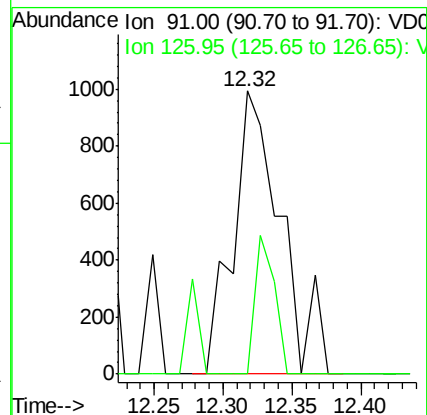
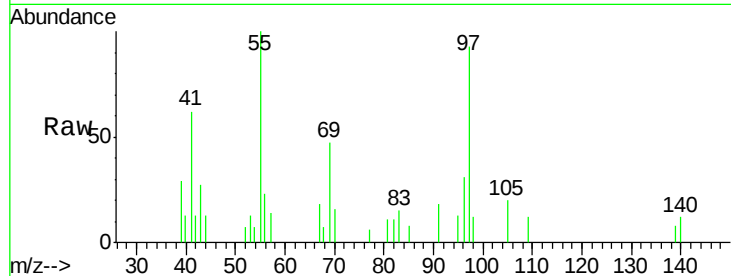
WP021SB472-28-30-180618

Tot Ion: 91 Resp: 2406

Ion Ratio Lower Upper

91 100

126 0.0 14.9 44.9#



#87

1,3-Dichlorobenzene

Concen: 1.099 ug/l

RT: 12.93 min Scan# 1290

Delta R.T. 0.08 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

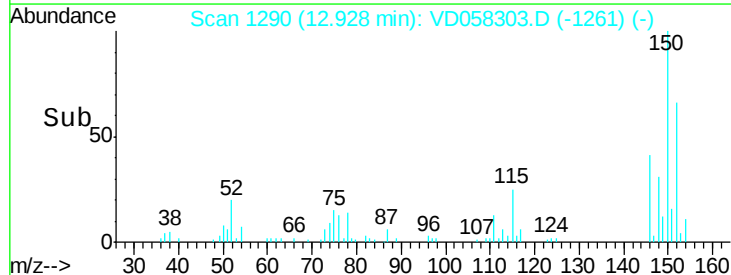
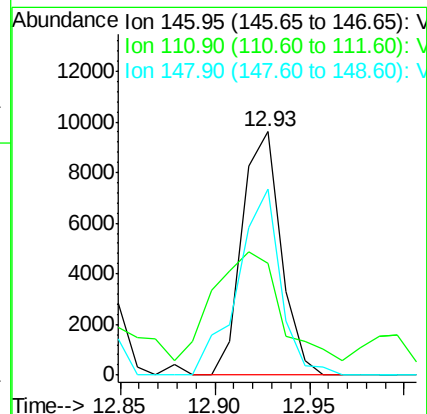
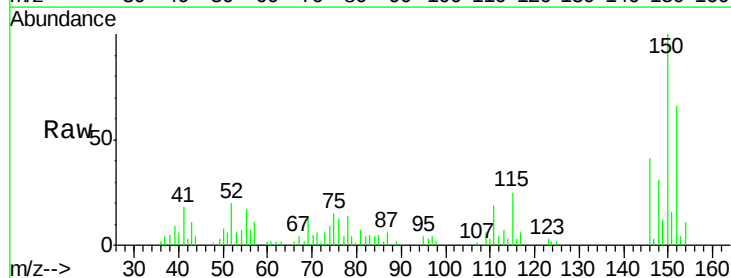
Tgt Ion: 146 Resp: 13615

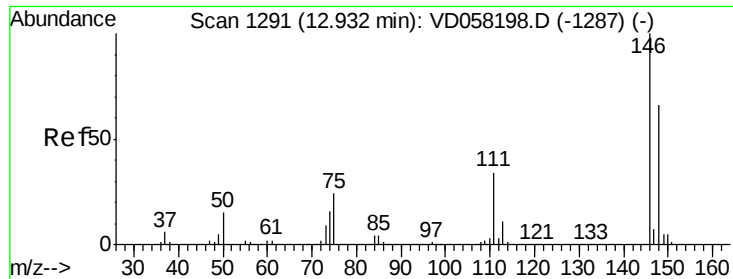
Ion Ratio Lower Upper

146 100

111 45.7 18.4 55.0

148 76.6 32.8 98.4





#88

1,4-Dichlorobenzene

Concen: 1.125 ug/l

RT: 12.93 min Scan# 1290

Delta R.T. -0.00 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-28-30-180618

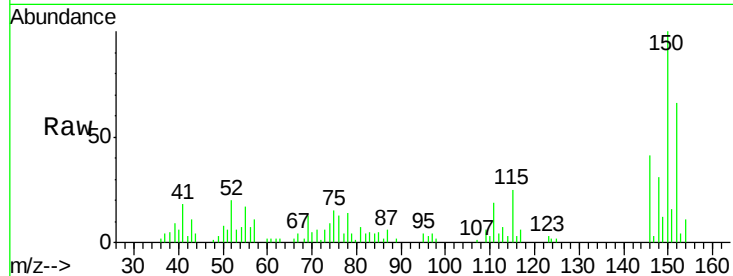
Tot Ion:146 Resp: 13615

Ion Ratio Lower Upper

146 100

111 45.7 17.2 51.5

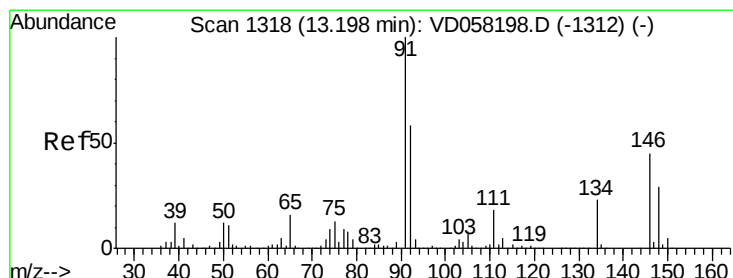
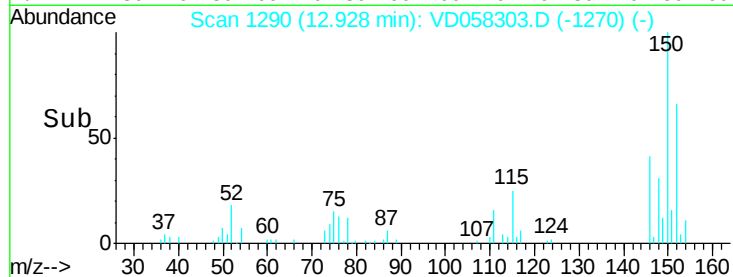
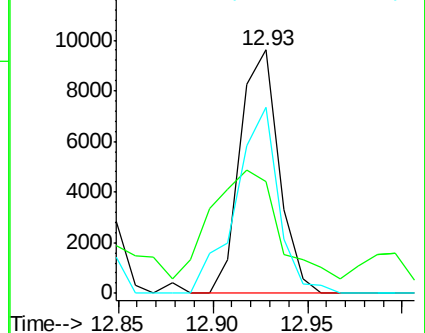
148 76.6 33.1 99.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 5.604 ug/l

RT: 13.19 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD058303.D

Acq: 22 Jun 2018 18:22

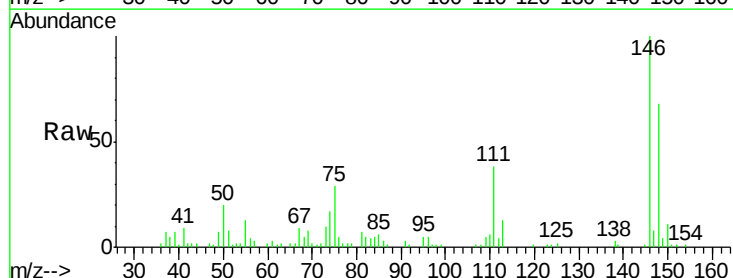
Tgt Ion:146 Resp: 59106

Ion Ratio Lower Upper

146 100

111 37.9 19.6 58.7

148 68.4 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

