

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058311.D
 Acq On : 22 Jun 2018 22:09
 Operator : VA/AP
 Sample : J3593-01RE
 Misc : 7.08g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S39-9005RE

Quant Time: Jun 23 00:04:48 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	515541	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	715902	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	606213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	300236	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	319421	61.34	ug/l	0.00
Spiked Amount			Recovery	=	122.68%	
35) Dibromofluoromethane	5.55	113	2362	0.41	ug/l	0.00
Spiked Amount			Recovery	=	0.82%	
50) Toluene-d8	8.70	98	685771	48.65	ug/l	-0.01
Spiked Amount			Recovery	=	97.30%	
62) 4-Bromofluorobenzene	11.93	95	298657	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	

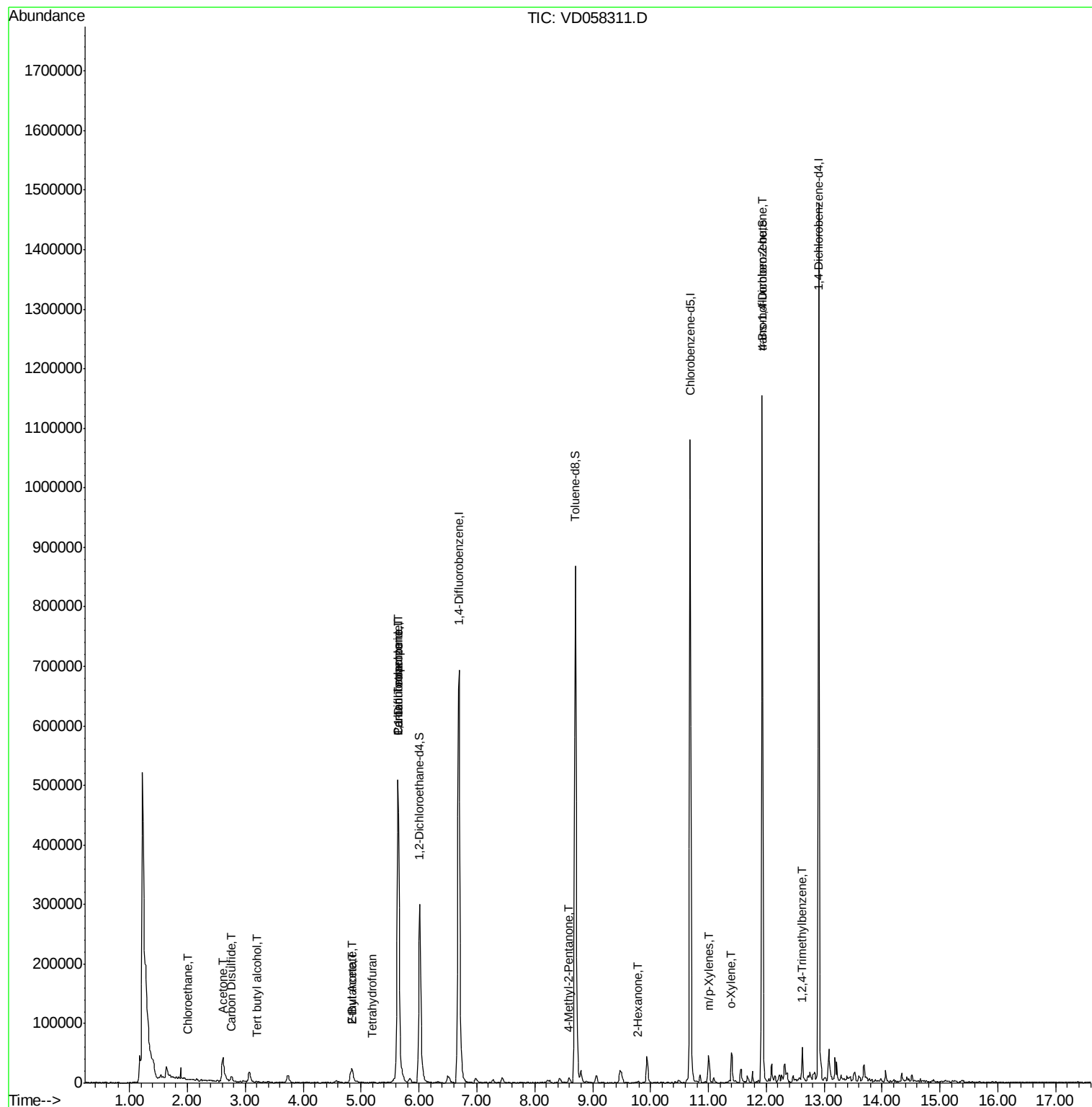
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	1081	Below Cal	#	40
3) Chloromethane	1.54	50	238	Below Cal	#	43
5) Bromomethane	1.79	94	240	Below Cal	#	3
6) Chloroethane	2.02	64	188	1.567	ug/l #	41
11) Tert butyl alcohol	3.21	59	840	4.891	ug/l #	78
16) Acetone	2.62	43	85388	119.902	ug/l #	92
17) Carbon Disulfide	2.76	76	13879	2.303	ug/l #	95
20) Methylene Chloride	3.07	84	7622	Below Cal	#	89
25) 2-Butanone	4.84	43	25283	16.289	ug/l	93
29) Tetrahydrofuran	5.19	42	1004	1.215	ug/l #	37
31) Cyclohexane	5.65	56	13803	Below Cal	#	1
36) 1,1-Dichloropropene	5.64	75	43324	6.117	ug/l #	51
37) Ethyl Acetate	4.84	43	25283	6.266	ug/l #	72
38) Carbon Tetrachloride	5.64	117	42338	6.017	ug/l #	13
51) 4-Methyl-2-Pentanone	8.59	43	9457	2.695	ug/l #	79
59) 2-Hexanone	9.79	43	2705	1.067	ug/l	91
68) m/p-Xylenes	11.00	106	13777	2.064	ug/l	78
69) o-Xylene	11.40	106	10849	1.701	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.93	75	142316	133.116	ug/l #	1
82) 4-Chlorotoluene	12.32	91	5426	Below Cal		88
84) 1,2,4-Trimethylbenzene	12.62	105	25937	1.703	ug/l	92

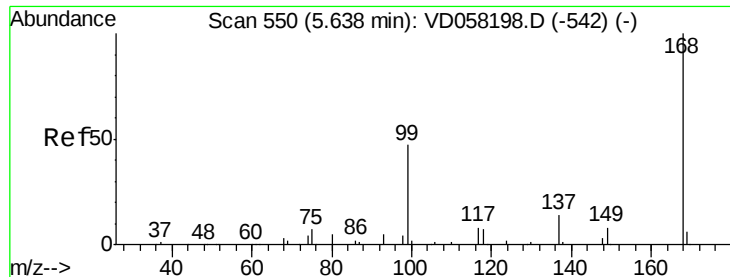
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.00 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

Instrument :

MSVOA_D

ClientSampleId :

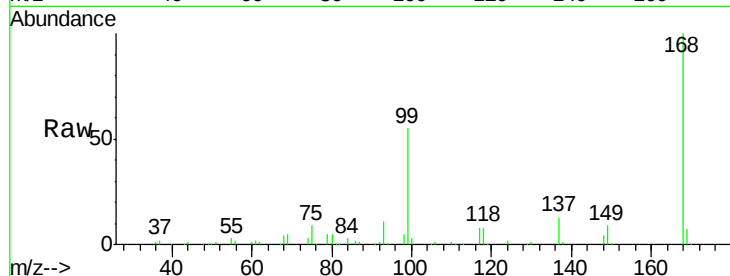
S39-9005RE

Tot Ion:168 Resp: 515541

Ion Ratio Lower Upper

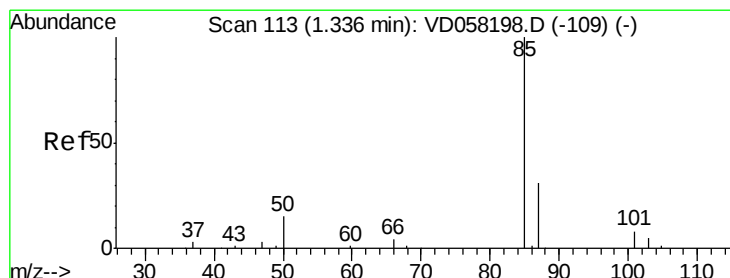
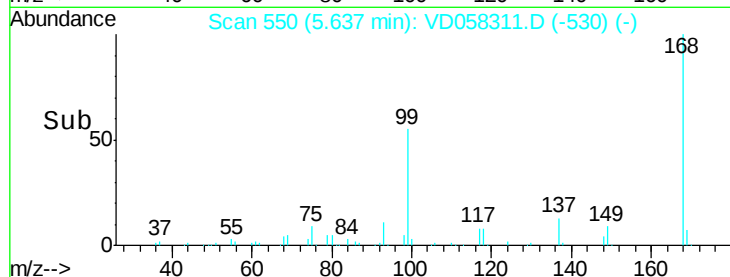
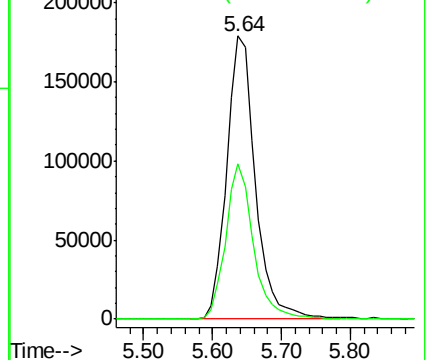
168 100

99 54.8 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: 1.36 min Scan# 115

Delta R.T. 0.02 min

Lab File: VD058311.D

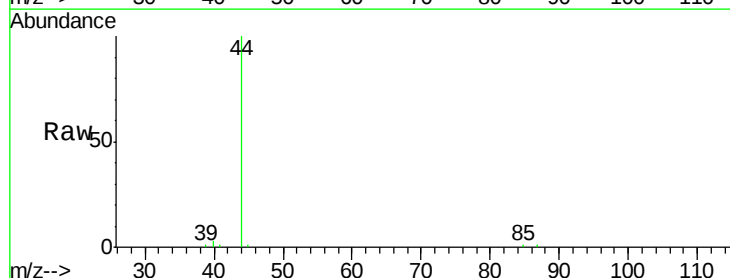
Acq: 22 Jun 2018 22:09

Tgt Ion: 85 Resp: 1081

Ion Ratio Lower Upper

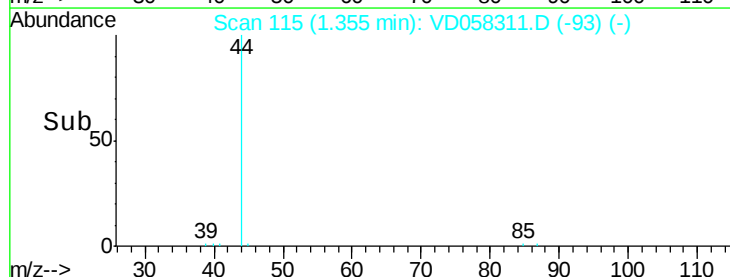
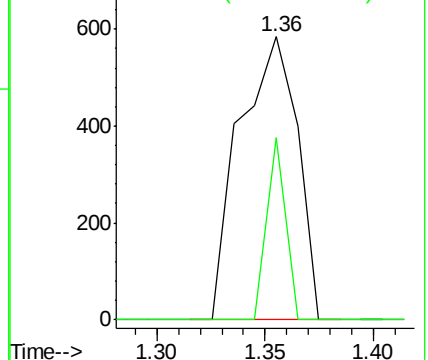
85 100

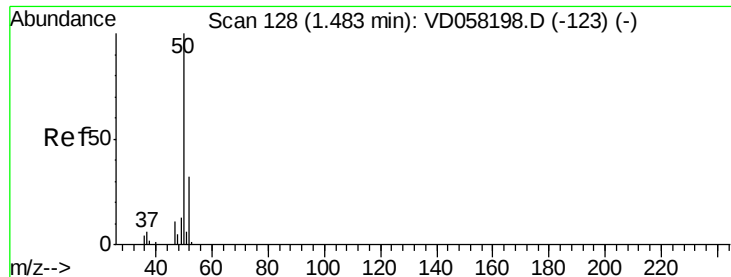
87 64.2 15.7 47.0#



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: 1.54 min Scan# 134

Delta R.T. 0.06 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

Instrument :

MSVOA_D

ClientSampleId :

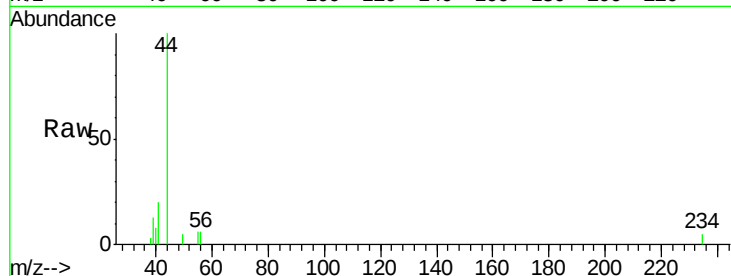
S39-9005RE

Tot Ion: 50 Resp: 238

Ion Ratio Lower Upper

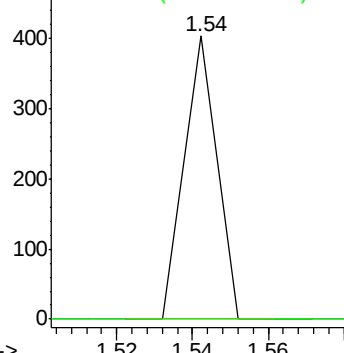
50 100

52 0.0 25.0 37.4#

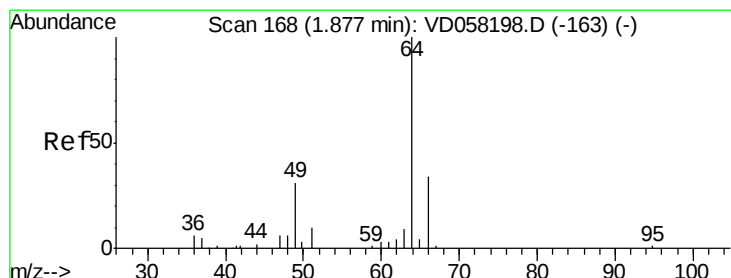
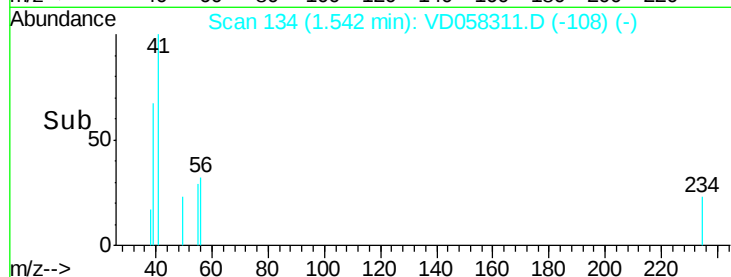


Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



Time-->



#6

Chloroethane

Concen: 1.567 ug/l

RT: 2.02 min Scan# 183

Delta R.T. 0.15 min

Lab File: VD058311.D

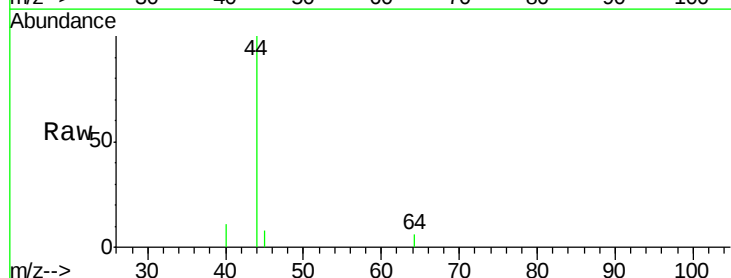
Acq: 22 Jun 2018 22:09

Tgt Ion: 64 Resp: 188

Ion Ratio Lower Upper

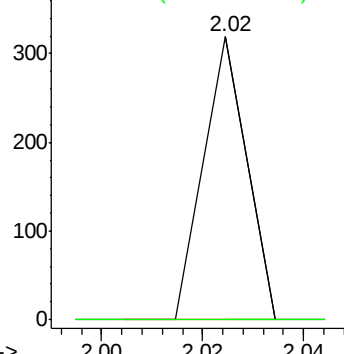
64 100

66 0.0 27.3 40.9#

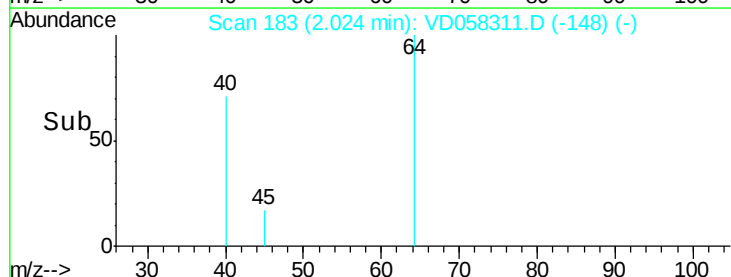


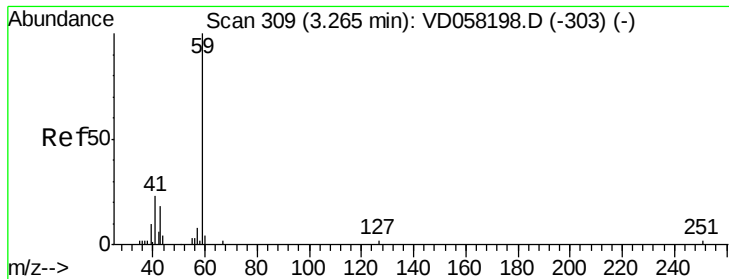
Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



Time-->



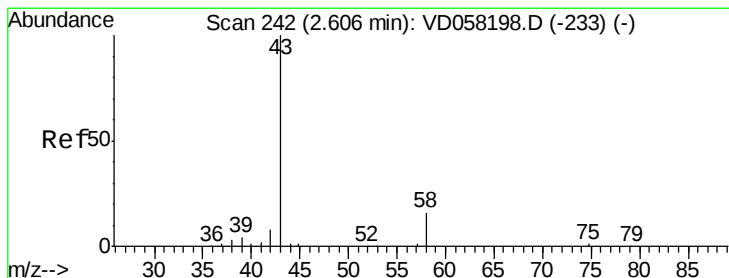
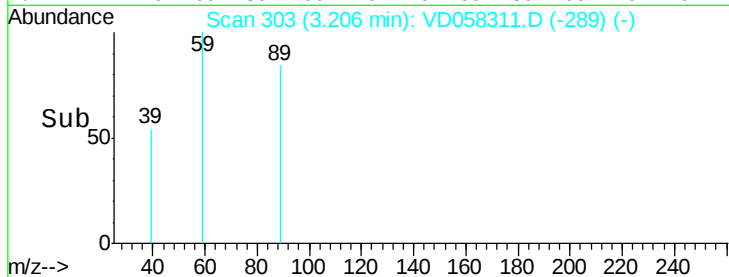
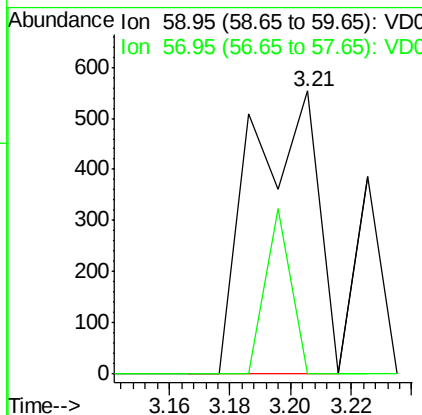
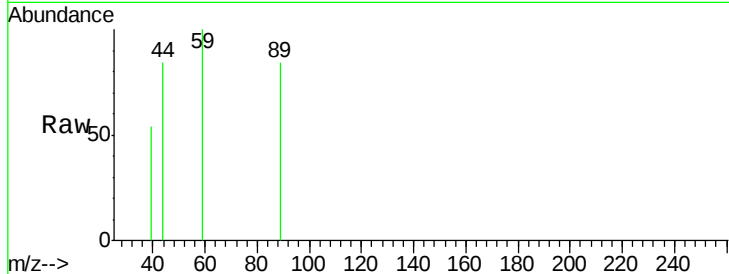


#11

Tert butyl alcohol
 Concen: 4.891 ug/l
 RT: 3.21 min Scan# 303
 Delta R.T. -0.06 min
 Lab File: VD058311.D
 Acq: 22 Jun 2018 22:09

Instrument :
 MSVOA_D
 ClientSampleID :
 S39-9005RE

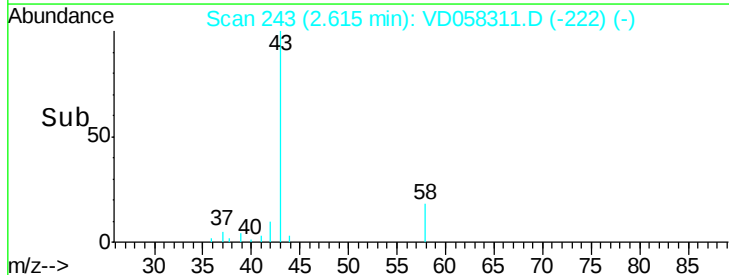
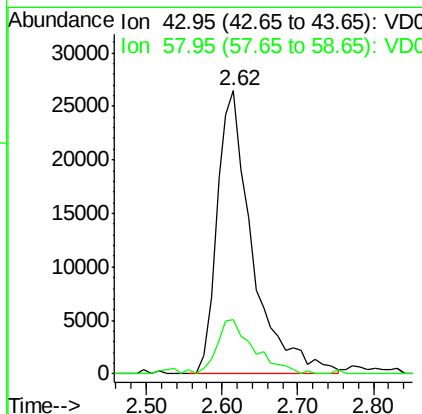
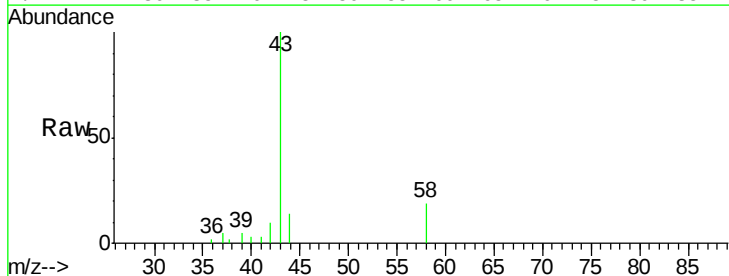
Tot Ion: 59 Resp: 840
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.4#

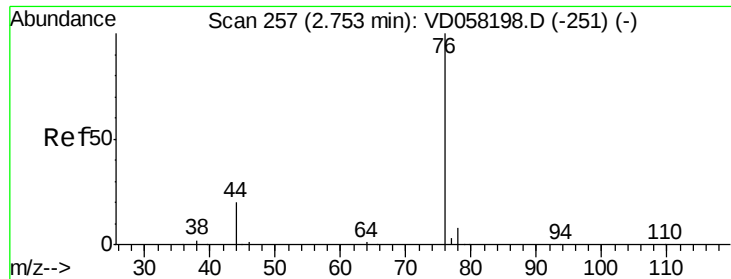


#16

Acetone
 Concen: 119.902 ug/l
 RT: 2.62 min Scan# 243
 Delta R.T. 0.01 min
 Lab File: VD058311.D
 Acq: 22 Jun 2018 22:09

Tgt Ion: 43 Resp: 85388
 Ion Ratio Lower Upper
 43 100
 58 19.1 12.7 19.1#





#17

Carbon Disulfide

Concen: 2.303 ug/l

RT: 2.76 min Scan# 258

Delta R.T. 0.01 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

Instrument :

MSVOA_D

ClientSampleId :

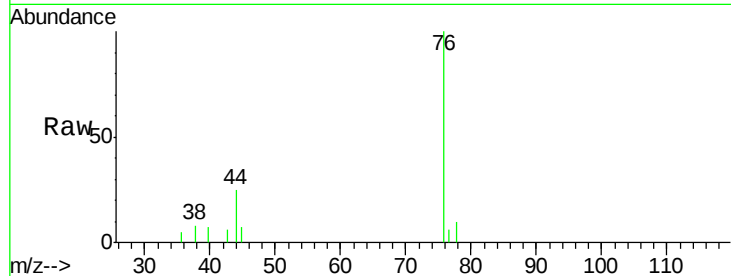
S39-9005RE

Tot Ion: 76 Resp: 13879

Ion Ratio Lower Upper

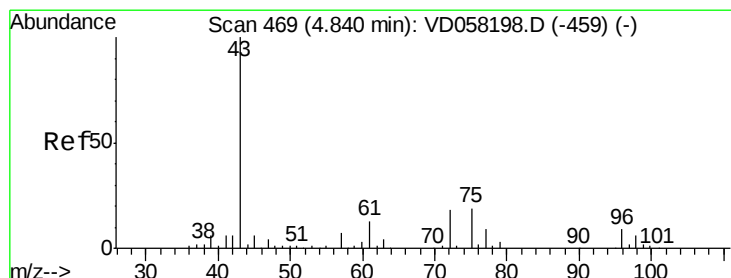
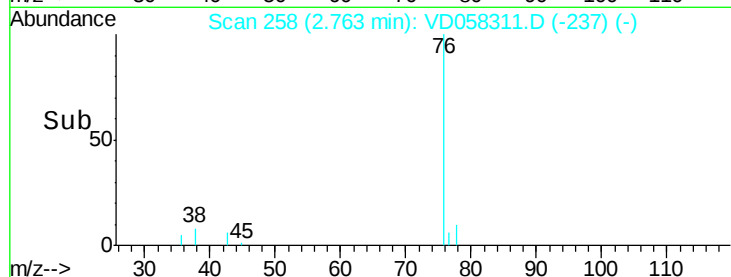
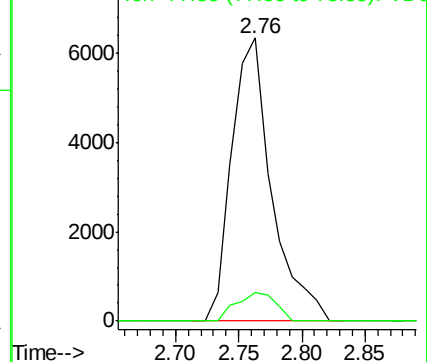
76 100

78 10.3 6.8 10.2#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#25

2-Butanone

Concen: 16.289 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD058311.D

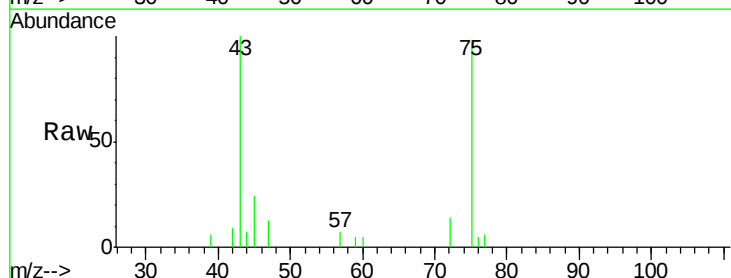
Acq: 22 Jun 2018 22:09

Tgt Ion: 43 Resp: 25283

Ion Ratio Lower Upper

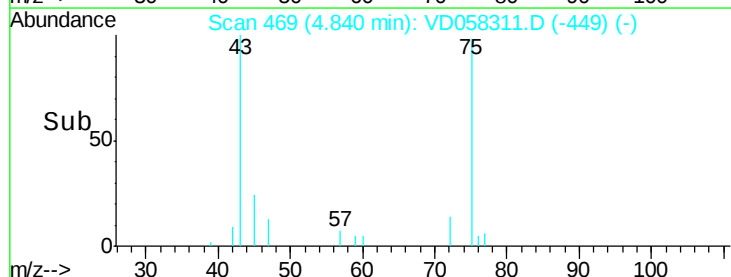
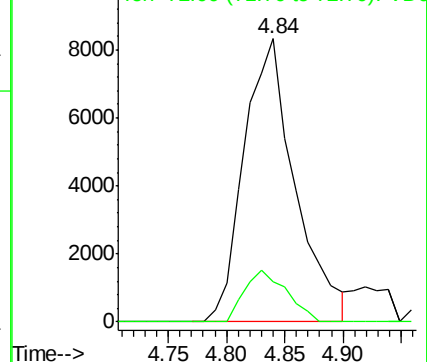
43 100

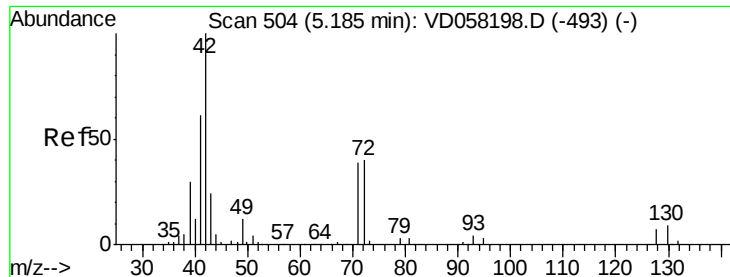
72 14.4 14.1 21.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 1.215 ug/l

RT: 5.19 min Scan# 505

Delta R.T. 0.01 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

Instrument :

MSVOA_D

ClientSampleId :

S39-9005RE

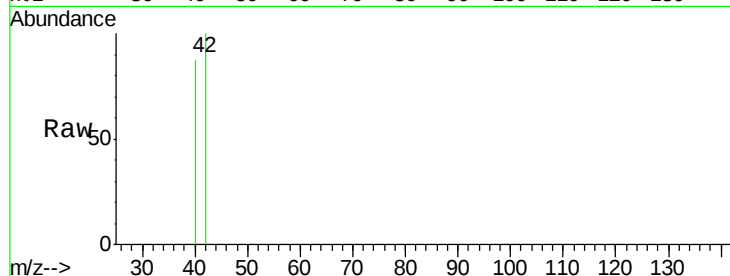
Tot Ion: 42 Resp: 1004

Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.2#

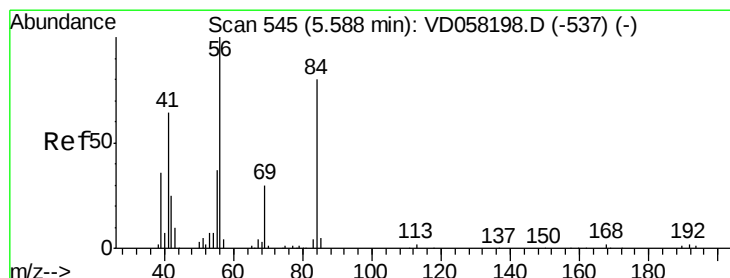
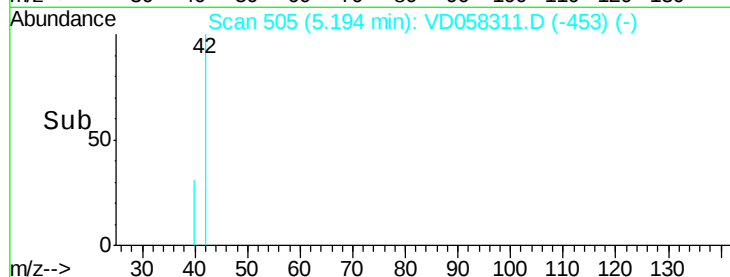
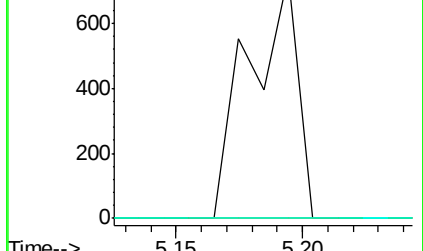
71 0.0 30.1 45.1#



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

5.19

5.15 5.20



#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

Delta R.T. 0.06 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

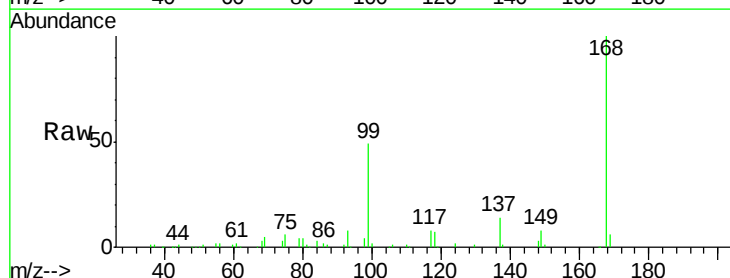
Tgt Ion: 56 Resp: 13803

Ion Ratio Lower Upper

56 100

69 208.6 23.6 35.4#

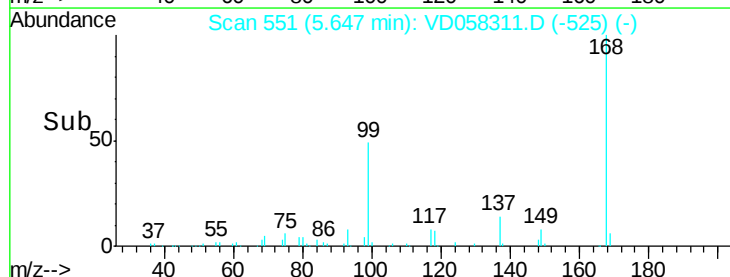
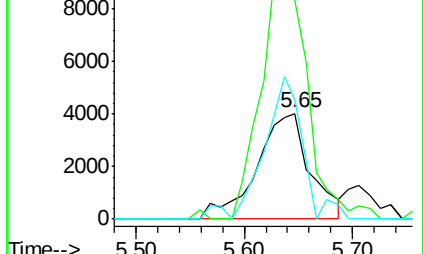
84 113.8 65.2 97.8#

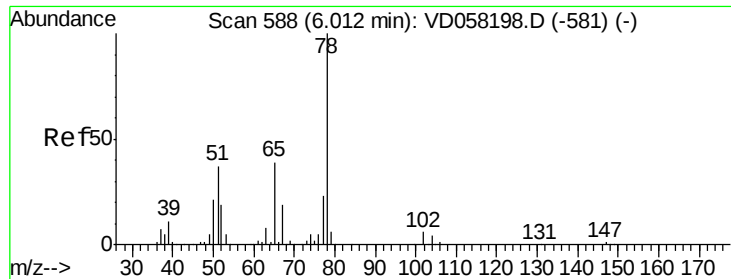


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

5.65

5.50 5.60 5.70





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.00 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

Instrument :

MSVOA_D

ClientSampleId :

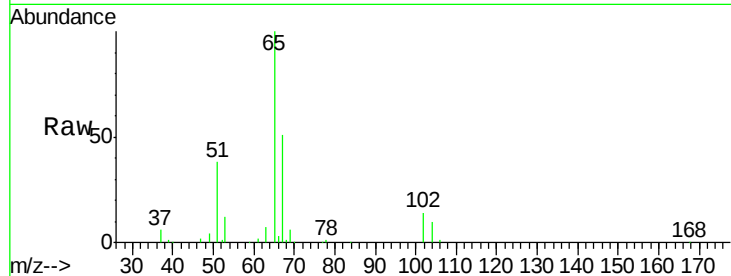
S39-9005RE

Tot Ion: 65 Resp: 319421

Ion Ratio Lower Upper

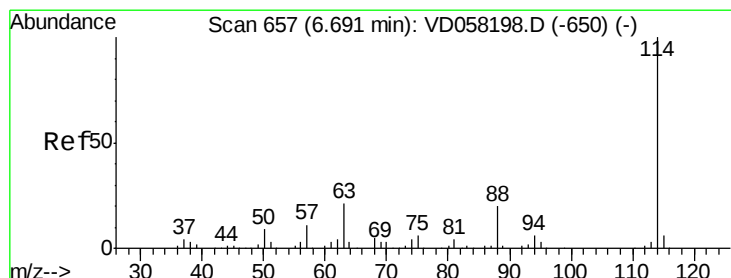
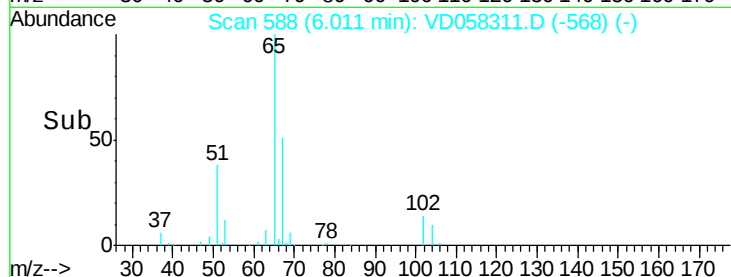
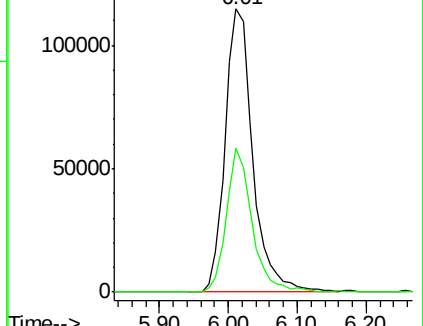
65 100

67 50.8 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# 657

Delta R.T. -0.00 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

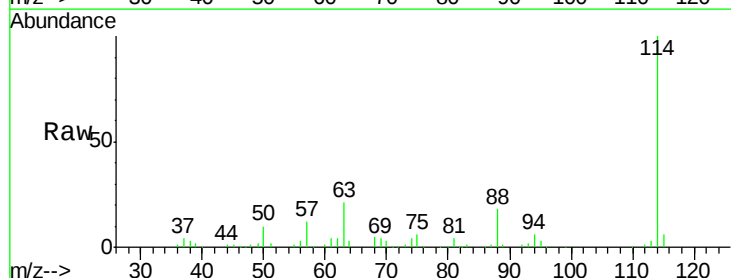
Tgt Ion: 114 Resp: 715902

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

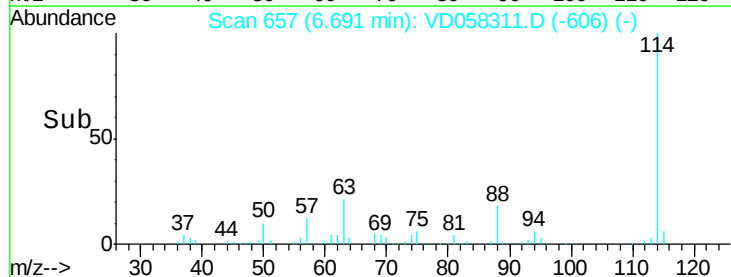
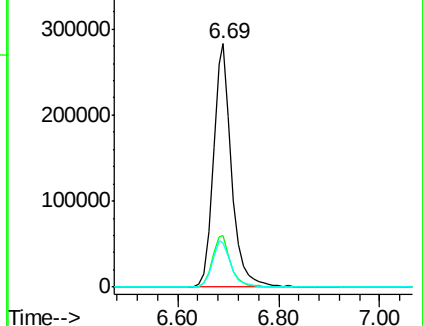
88 17.9 0.0 40.6

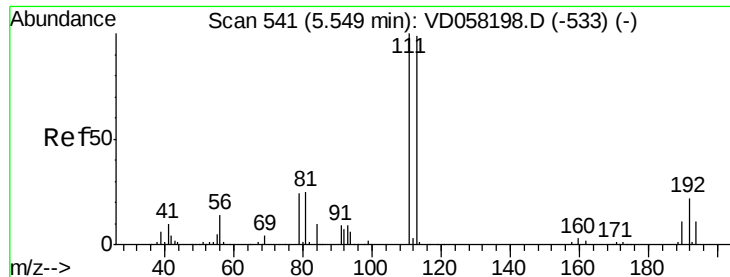


Abundance Ion 114.00 (113.70 to 114.70): V

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# 541

Delta R.T. -0.00 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

Instrument :

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ClientSampleId :

S39-9005RE

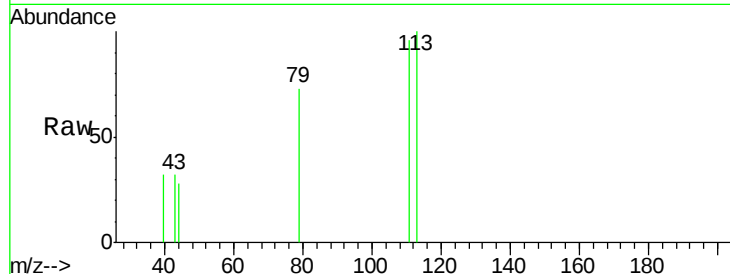
Tot Ion:113 Resp: 2362

Ion Ratio Lower Upper

113 100

111 96.1 80.6 121.0

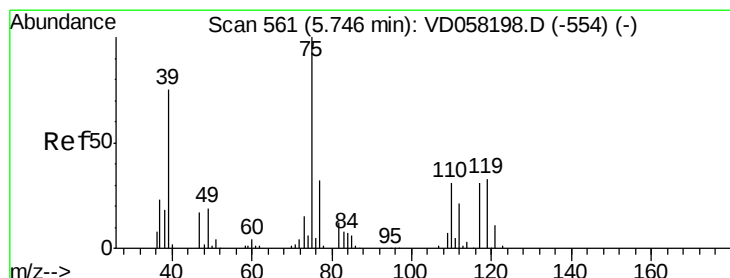
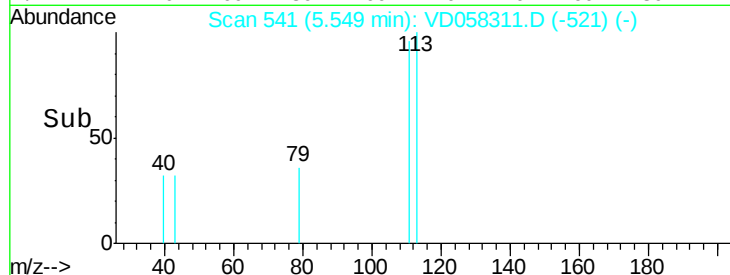
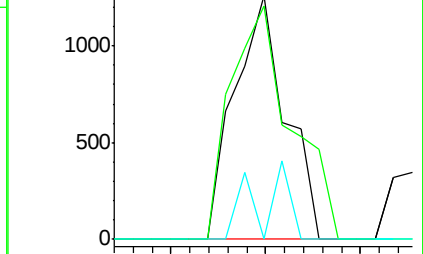
192 0.0 17.8 26.6#



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: 6.117 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

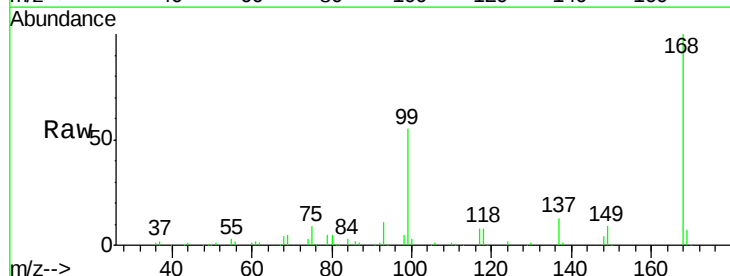
Tgt Ion: 75 Resp: 43324

Ion Ratio Lower Upper

75 100

110 8.5 15.4 46.4#

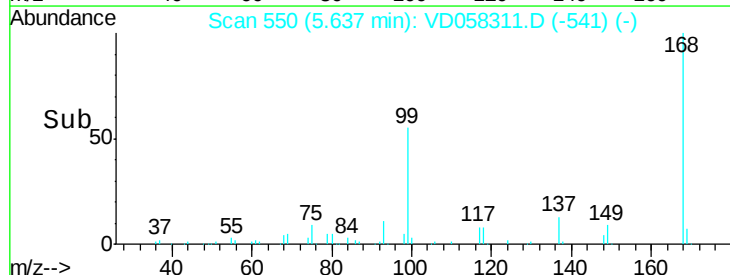
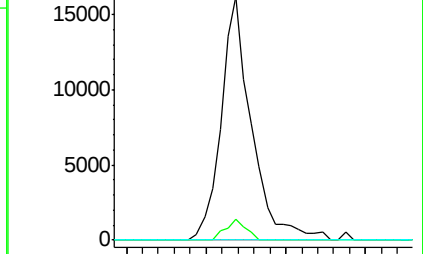
77 0.0 25.4 38.2#

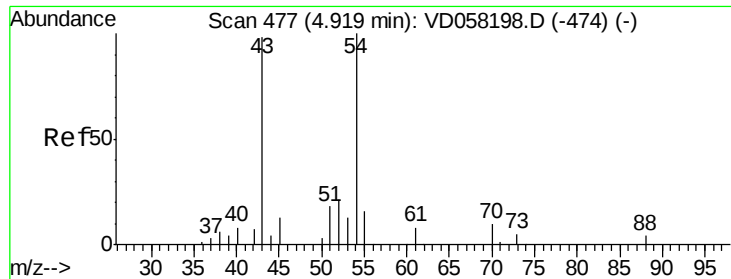


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 6.266 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.08 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

Instrument :

MSVOA_D

ClientSampled :

S39-9005RE

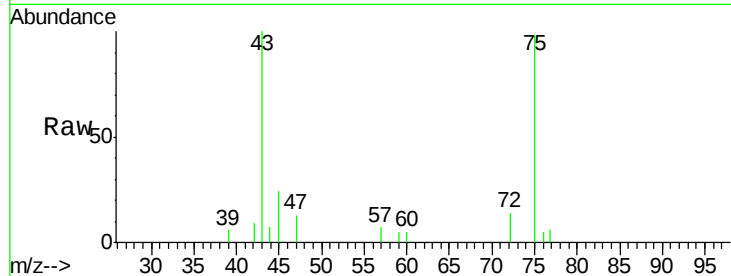
Tot Ion: 43 Resp: 25283

Ion Ratio Lower Upper

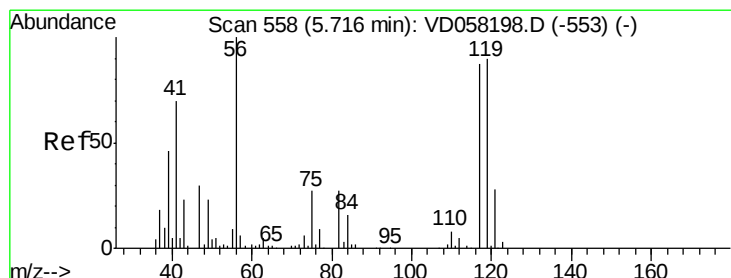
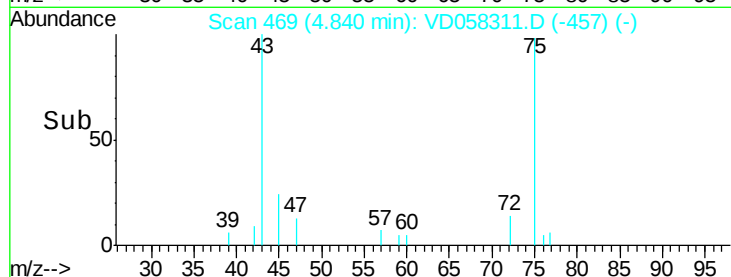
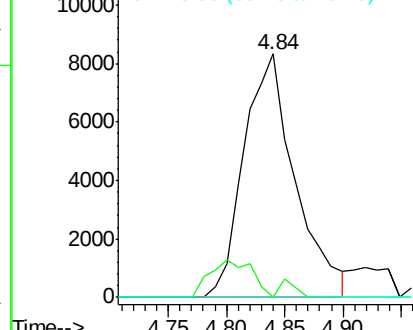
43 100

61 0.0 10.3 15.5#

70 0.0 5.7 8.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 6.017 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.08 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

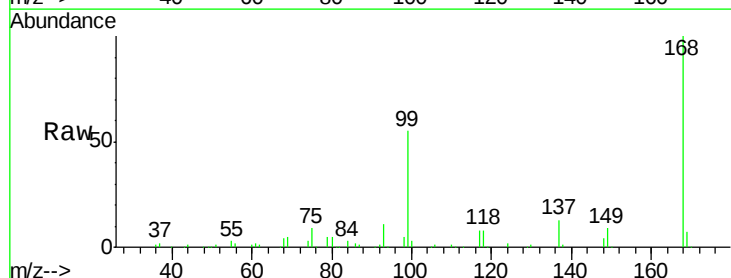
Tgt Ion: 117 Resp: 42338

Ion Ratio Lower Upper

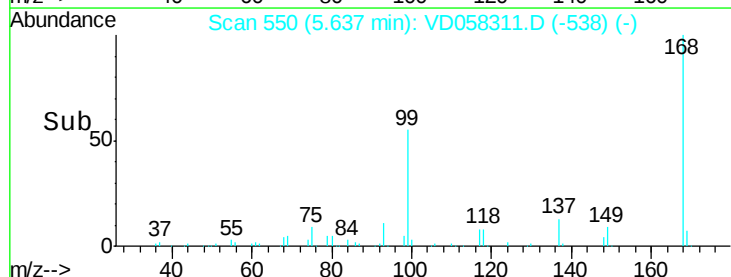
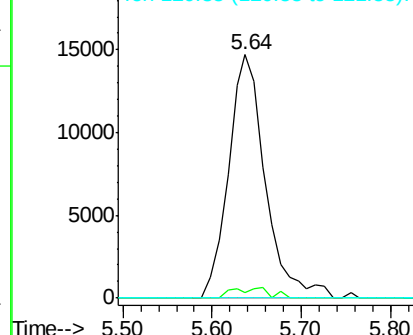
117 100

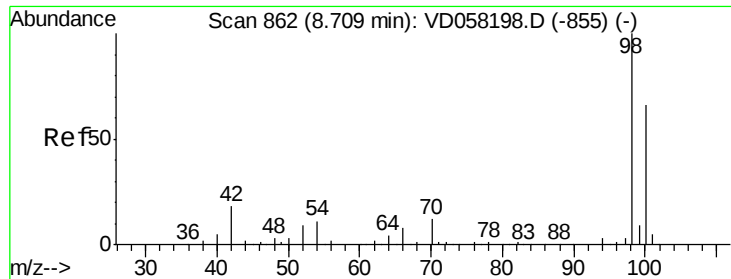
119 2.3 78.8 118.2#

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

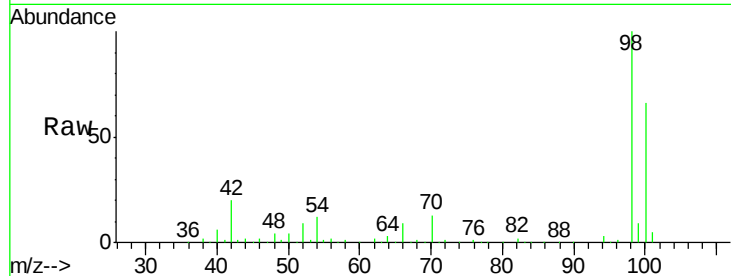




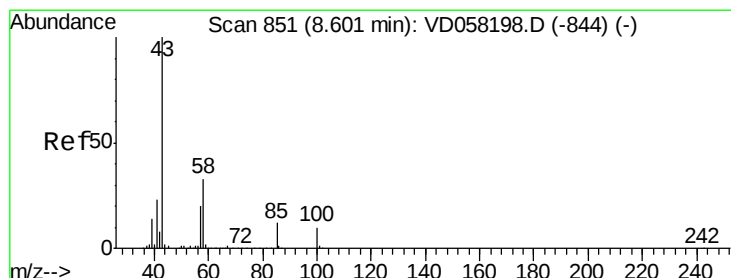
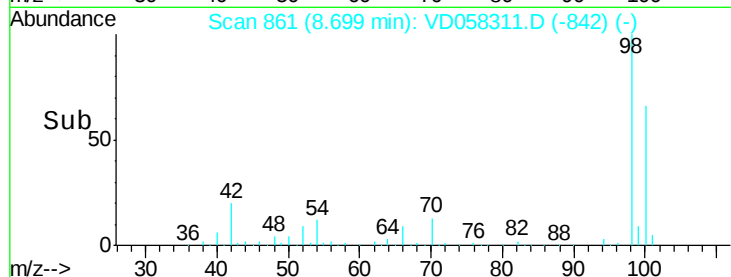
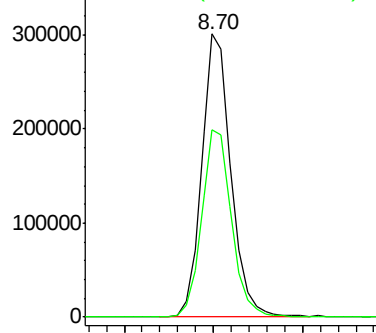
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.70 min Scan# 861
Delta R.T. -0.01 min
Lab File: VD058311.D
Acq: 22 Jun 2018 22:09

Instrument :
MSVOA_D
ClientSampleId :
S39-9005RE

Tot Ion: 98 Resp: 685771
Ion Ratio Lower Upper
98 100
100 66.1 53.6 80.4

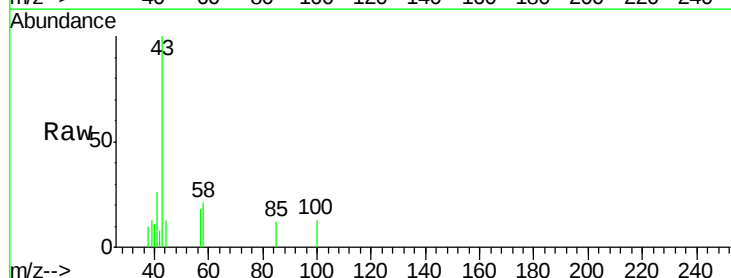


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

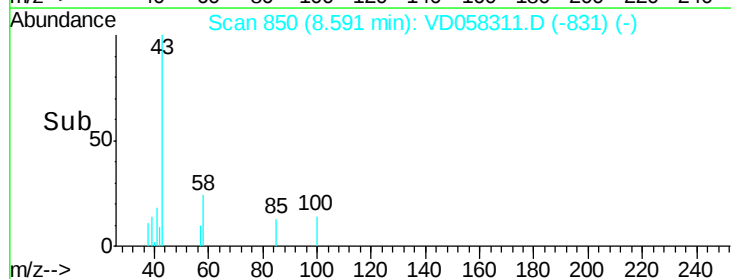
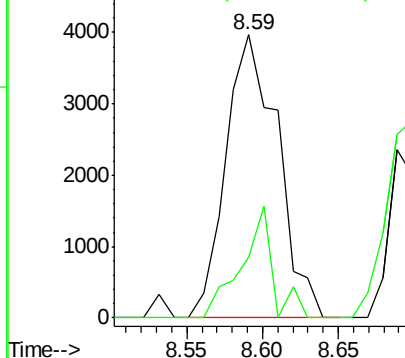


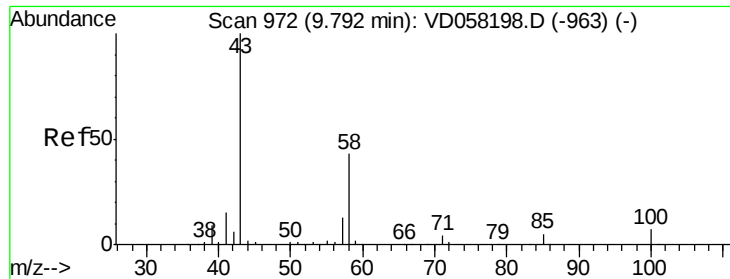
#51
4-Methyl-2-Pentanone
Concen: 2.695 ug/l
RT: 8.59 min Scan# 850
Delta R.T. -0.01 min
Lab File: VD058311.D
Acq: 22 Jun 2018 22:09

Tgt Ion: 43 Resp: 9457
Ion Ratio Lower Upper
43 100
58 21.5 26.7 40.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

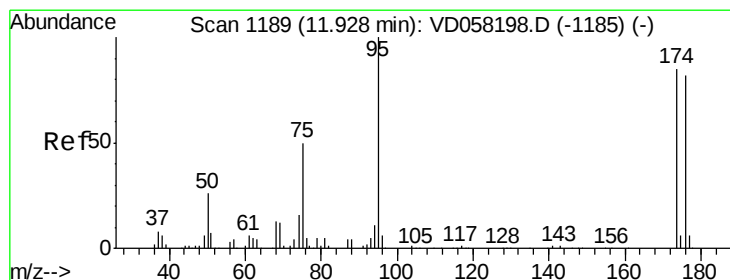
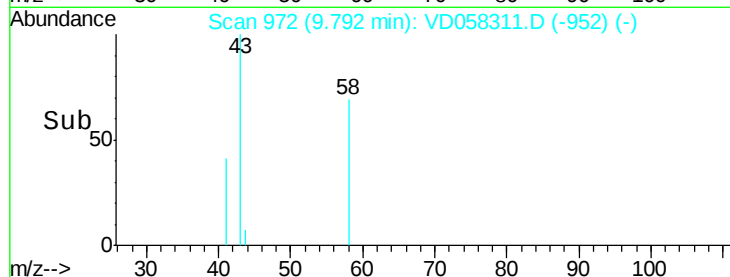
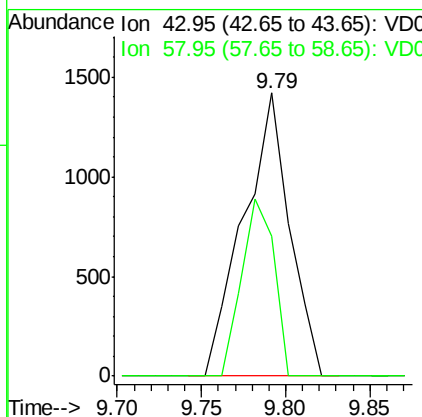
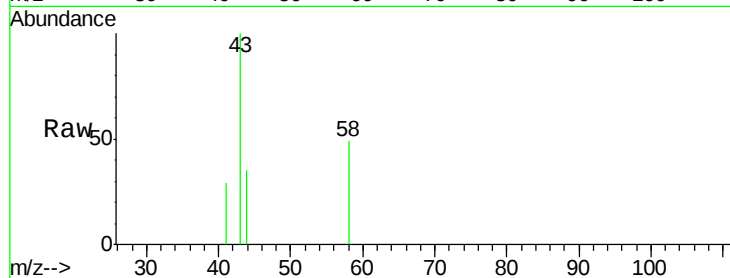




#59
2-Hexanone
Concen: 1.067 ug/l
RT: 9.79 min Scan# 972
Delta R.T. -0.00 min
Lab File: VD058311.D
Acq: 22 Jun 2018 22:09

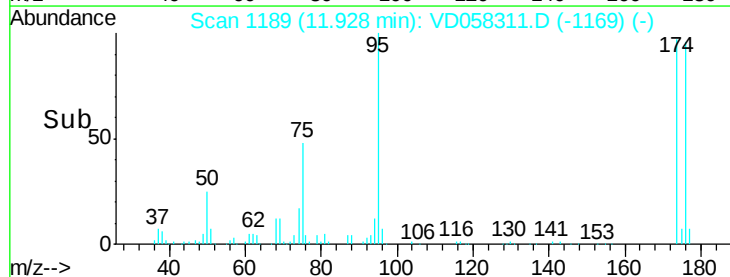
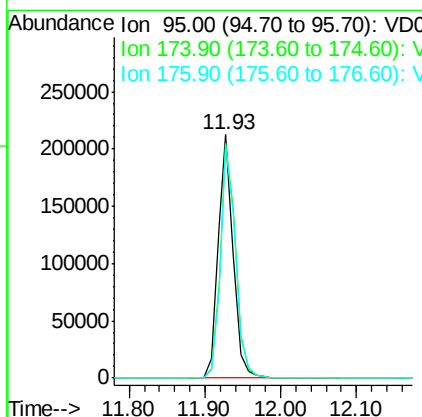
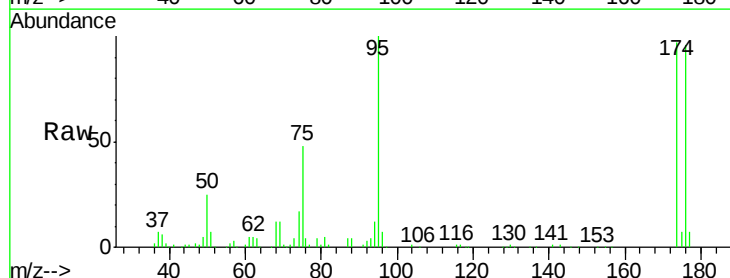
Instrument :
MSVOA_D
ClientSampleId :
S39-9005RE

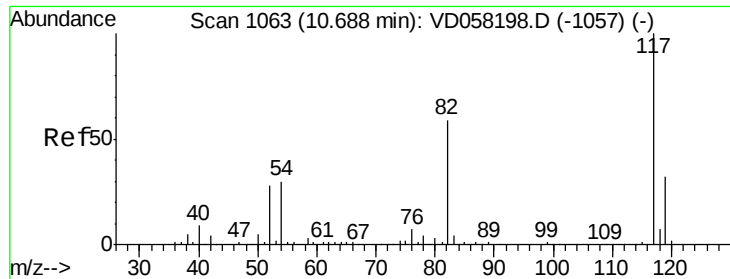
Tot Ion: 43 Resp: 2705
Ion Ratio Lower Upper
43 100
58 49.3 21.7 65.1



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VD058311.D
Acq: 22 Jun 2018 22:09

Tgt Ion: 95 Resp: 298657
Ion Ratio Lower Upper
95 100
174 96.5 0.0 170.2
176 95.9 0.0 164.6

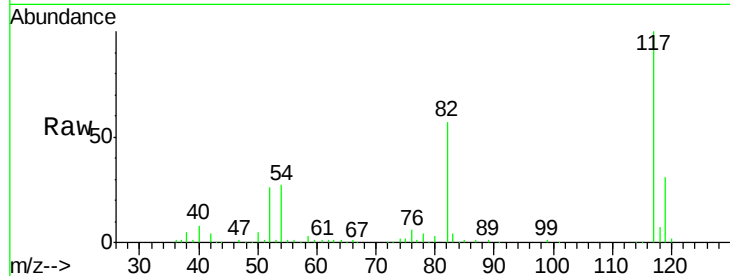




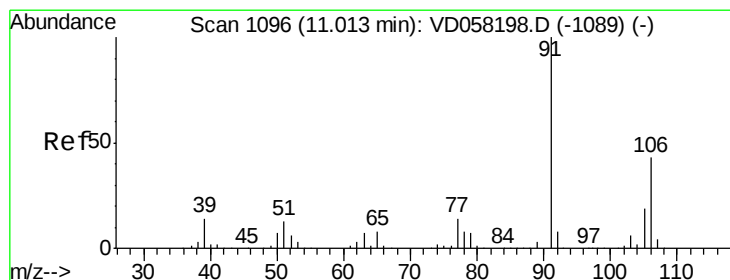
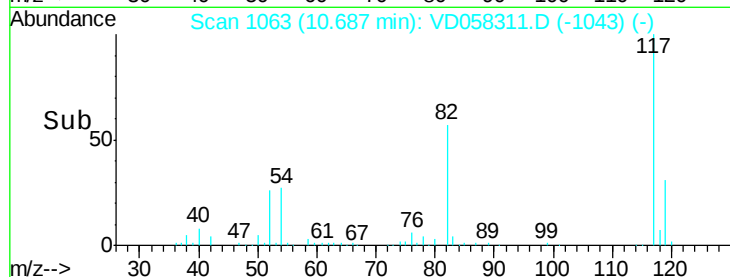
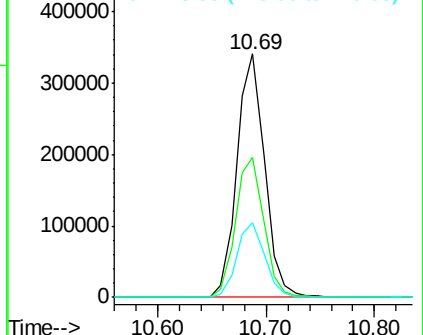
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. -0.00 min
Lab File: VD058311.D
Acq: 22 Jun 2018 22:09

Instrument :
MSVOA_D
ClientSampleId :
S39-9005RE

Tot Ion:117 Resp: 606213
Ion Ratio Lower Upper
117 100
82 57.2 47.0 70.6
119 30.6 25.3 37.9

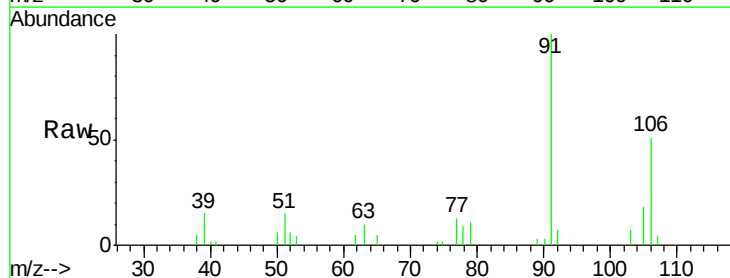


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

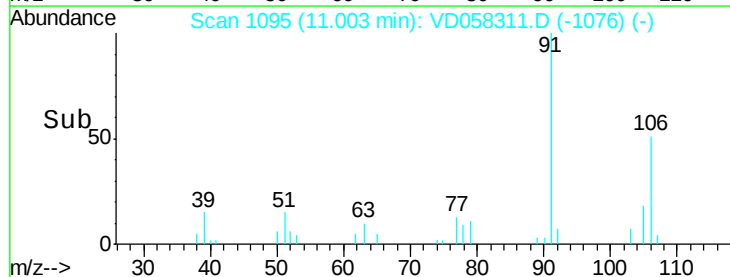
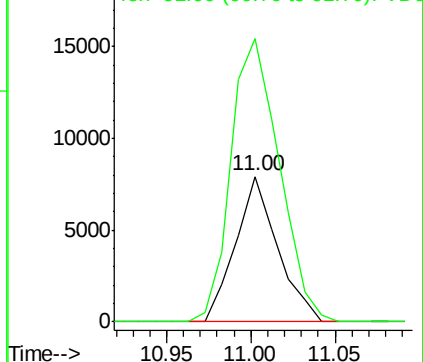


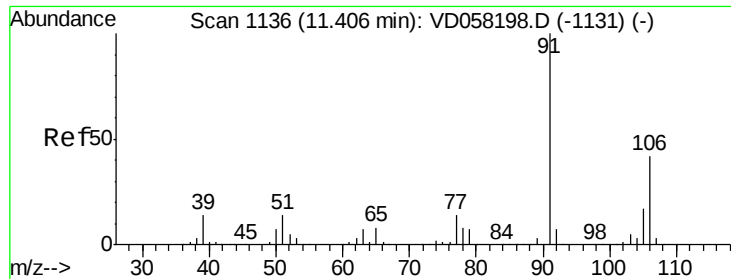
#68
m/p-Xylenes
Concen: 2.064 ug/l
RT: 11.00 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD058311.D
Acq: 22 Jun 2018 22:09

Tgt Ion:106 Resp: 13777
Ion Ratio Lower Upper
106 100
91 194.2 185.0 277.6



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

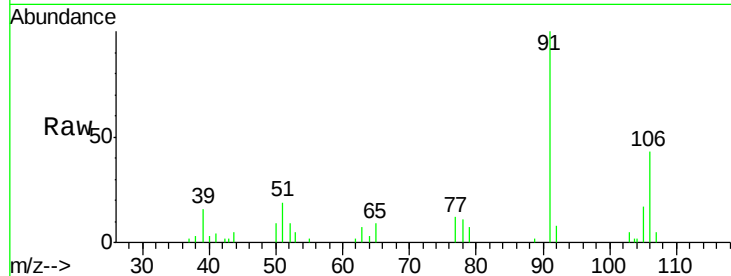




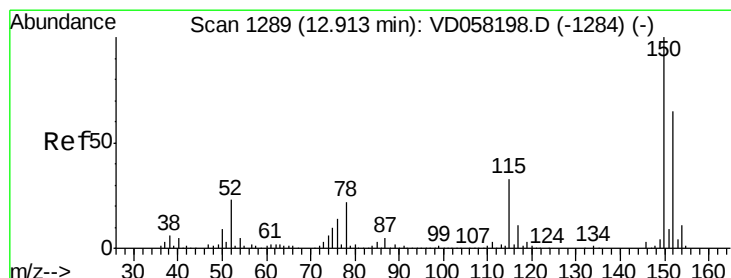
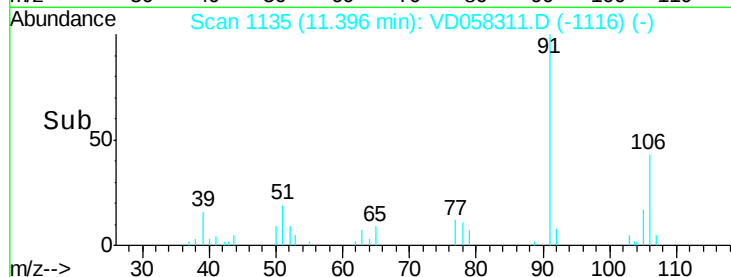
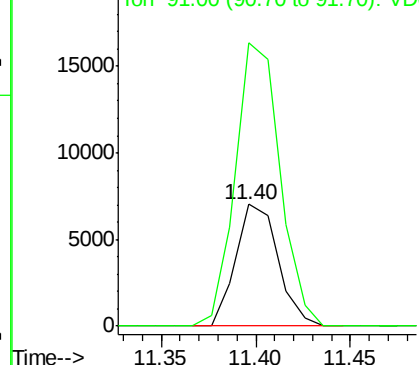
#69
o-Xylene
Concen: 1.701 ug/l
RT: 11.40 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VD058311.D
Acq: 22 Jun 2018 22:09

Instrument :
MSVOA_D
ClientSampleId :
S39-9005RE

Tot Ion:106 Resp: 10849
Ion Ratio Lower Upper
106 100
91 232.3 120.2 360.6

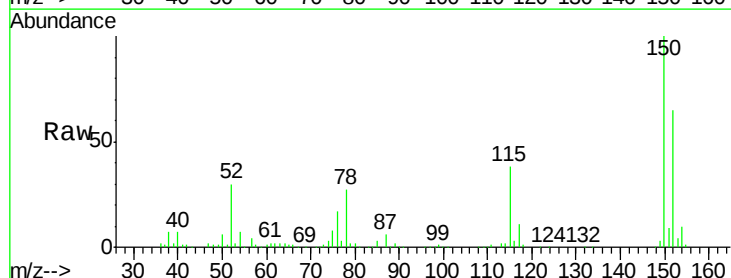


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

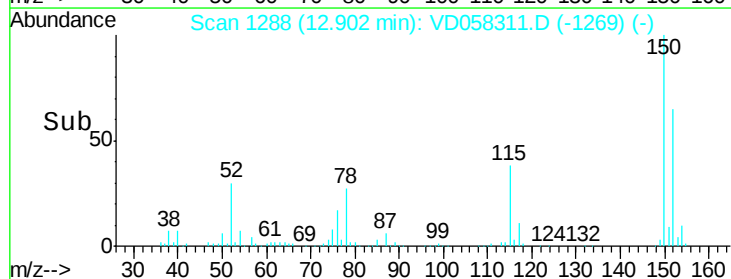
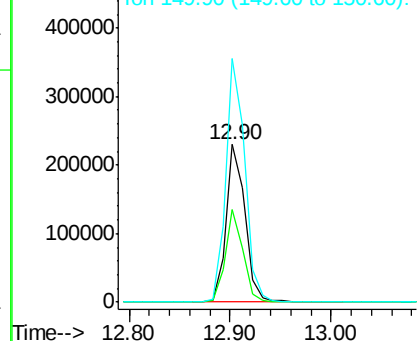


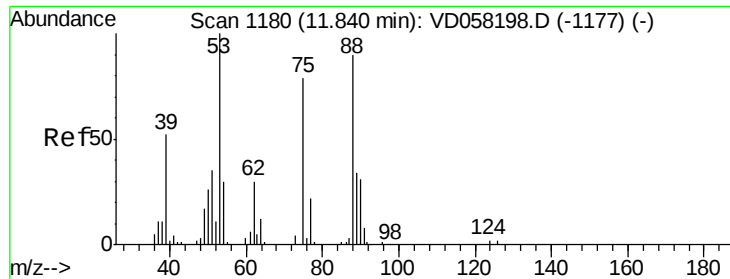
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058311.D
Acq: 22 Jun 2018 22:09

Tgt Ion:152 Resp: 300236
Ion Ratio Lower Upper
152 100
115 59.1 25.1 75.3
150 154.7 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: 133.116 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

Instrument :

MSVOA_D

ClientSampleId :

S39-9005RE

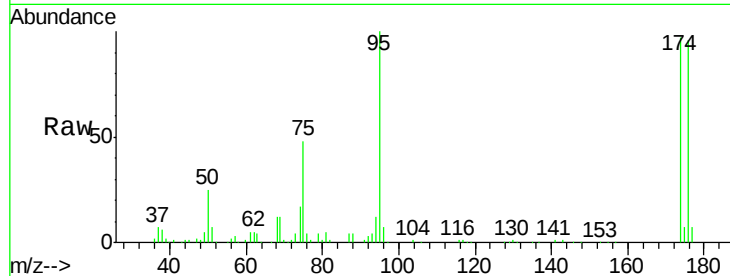
Tot Ion: 75 Resp: 142316

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

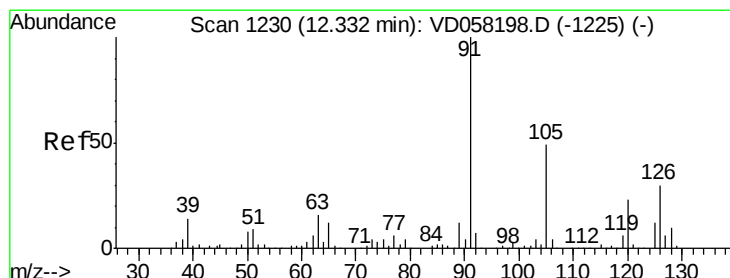
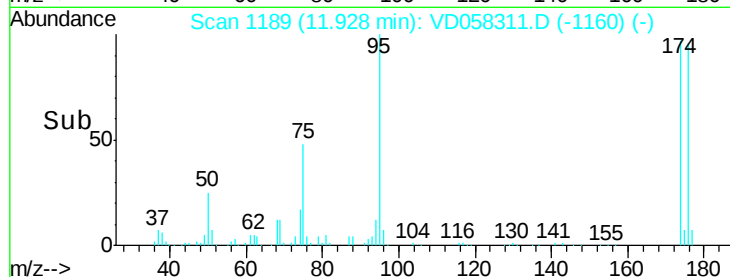
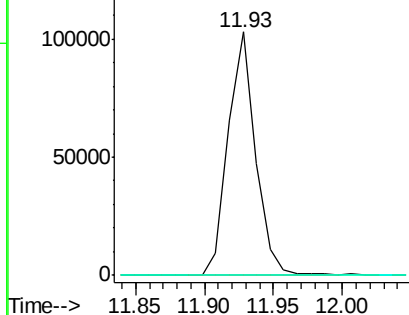
89 0.0 34.6 52.0#



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# 1229

Delta R.T. -0.01 min

Lab File: VD058311.D

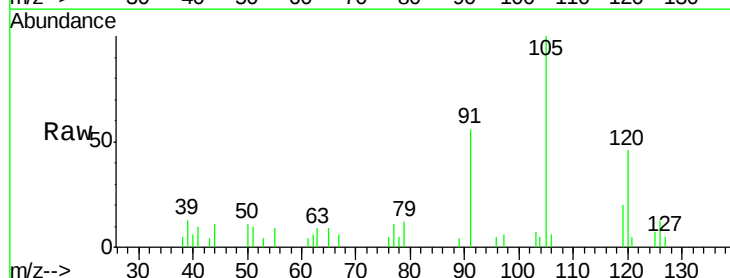
Acq: 22 Jun 2018 22:09

Tgt Ion: 91 Resp: 5426

Ion Ratio Lower Upper

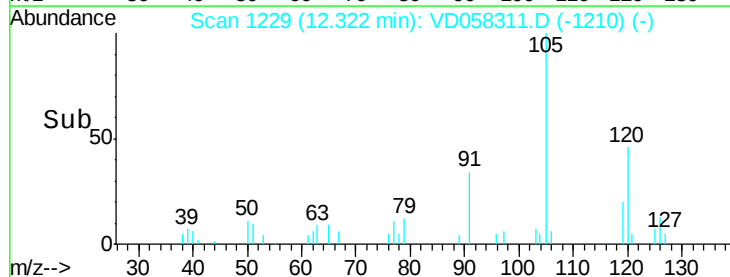
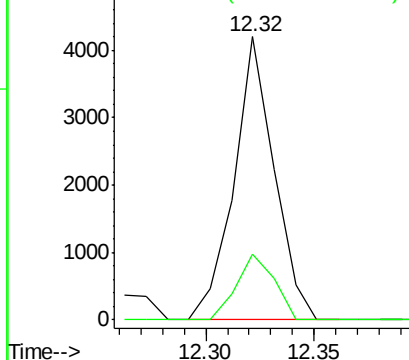
91 100

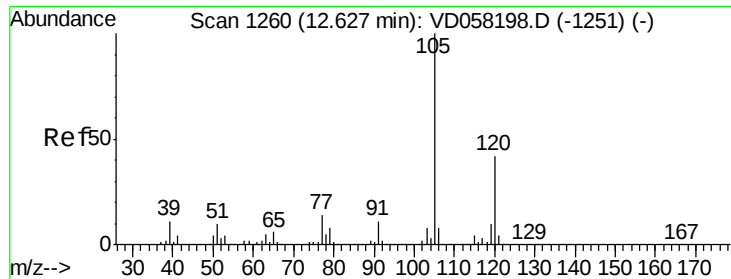
126 23.1 14.9 44.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#84

1,2,4-Trimethylbenzene

Concen: 1.703 ug/l

RT: 12.62 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VD058311.D

Acq: 22 Jun 2018 22:09

Instrument :

MSVOA_D

ClientSampleId :

S39-9005RE

Tot Ion:105 Resp: 25937

Ion Ratio Lower Upper

105 100

120 36.4 20.8 62.4

