

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD060718\
 Data File : VD057984.D
 Acq On : 7 Jun 2018 21:03
 Operator : JC/SY
 Sample : J3331-01
 Misc : 4.29g/5ml/MSVOA_D/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-1-2

Quant Time: Jun 08 06:51:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	734520	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.68	114	975355	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	776224	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	387239	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.00	65	333819	45.46	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	90.92%	
35) Dibromofluoromethane	5.54	113	341131	45.20	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	90.40%	
50) Toluene-d8	8.69	98	776519	43.28	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	86.56%	
62) 4-Bromofluorobenzene	11.92	95	341296	43.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.22%	

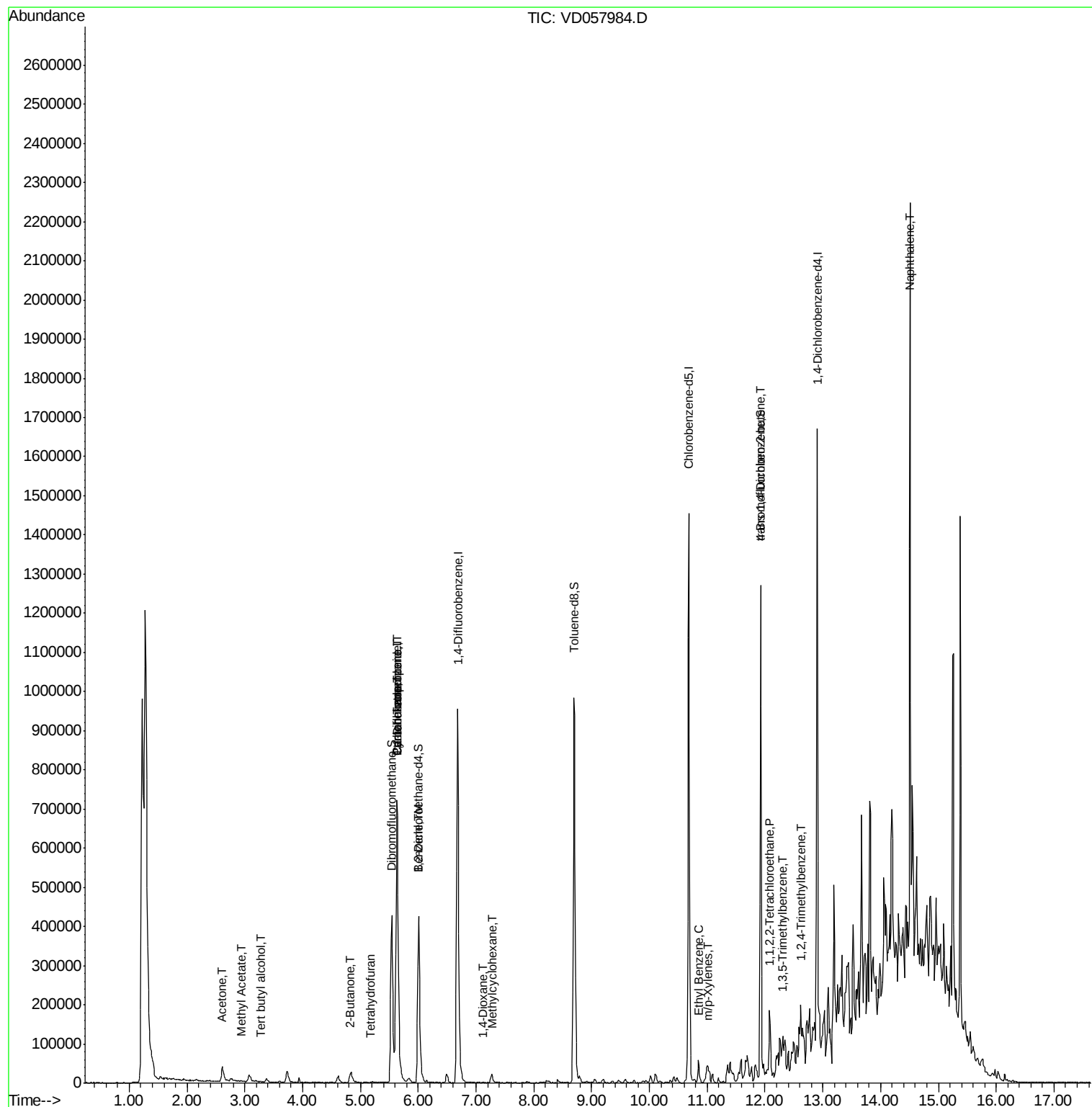
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.29	59	205	1.042	ug/l #	74
16) Acetone	2.61	43	84618	79.981	ug/l	95
18) Methyl Acetate	2.92	43	6477	3.165	ug/l #	66
20) Methylene Chloride	3.06	84	4804	Below Cal	#	83
25) 2-Butanone	4.82	43	11726	4.877	ug/l #	88
29) Tetrahydrofuran	5.18	42	1500	1.190	ug/l #	70
31) Cyclohexane	5.63	56	25422	1.991	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	63754	5.933	ug/l #	52
38) Carbon Tetrachloride	5.63	117	61471	5.804	ug/l #	15
39) Methylcyclohexane	7.27	83	11632	1.092	ug/l	91
40) Benzene	6.00	78	109758	4.372	ug/l	95
49) 1,4-Dioxane	7.13	88	193	4.928	ug/l #	15
67) Ethyl Benzene	10.85	91	40560	1.429	ug/l	90
68) m/p-Xylenes	11.01	106	13001	1.405	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.08	83	9906	1.771	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.31	105	23518	1.176	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.92	75	161495	112.091	ug/l #	6
82) 4-Chlorotoluene	12.31	91	4858	Below Cal	#	50
84) 1,2,4-Trimethylbenzene	12.62	105	38657	1.797	ug/l	96
89) n-Butylbenzene	13.19	91	14592	Below Cal		92
95) Naphthalene	14.51	128	1084302	86.732	ug/l	99

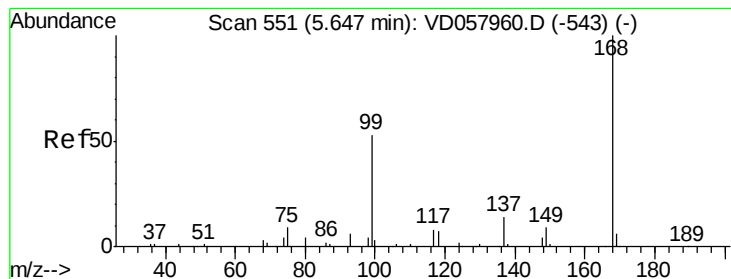
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.02 min

Lab File: VD057984.D

Acq: 7 Jun 2018 21:03

Instrument :

MSVOA_D

ClientSampleId :

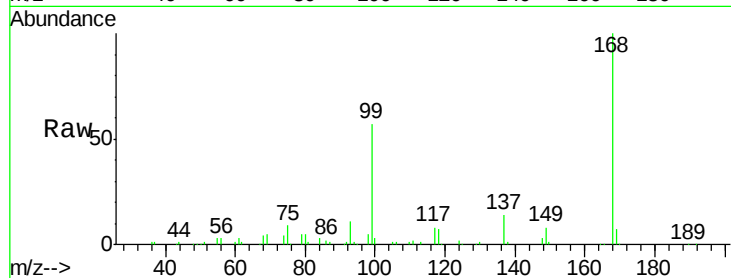
CAS1-SB-02-1-2

Tgt Ion:168 Resp: 734520

Ion Ratio Lower Upper

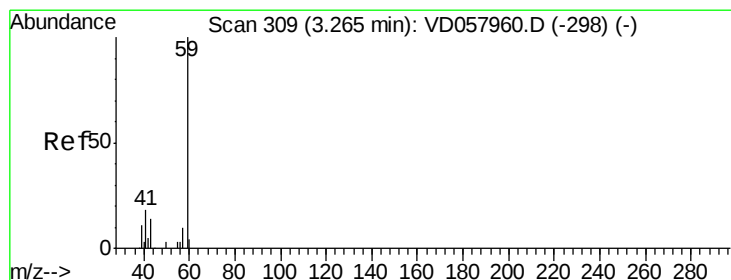
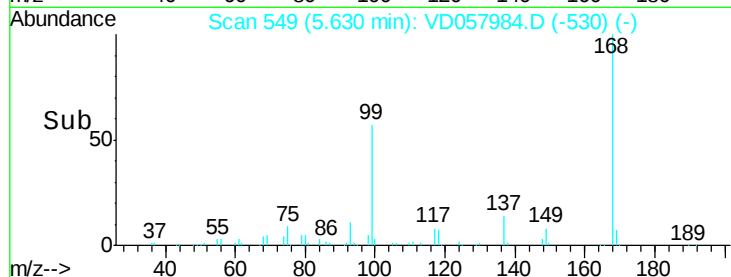
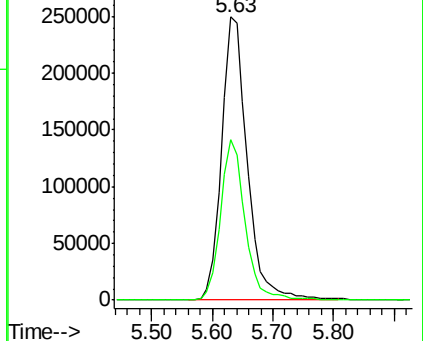
168 100

99 56.6 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.042 ug/l

RT: 3.29 min Scan# 311

Delta R.T. 0.02 min

Lab File: VD057984.D

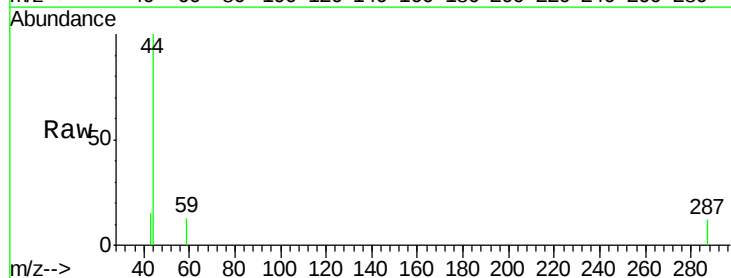
Acq: 7 Jun 2018 21:03

Tgt Ion: 59 Resp: 205

Ion Ratio Lower Upper

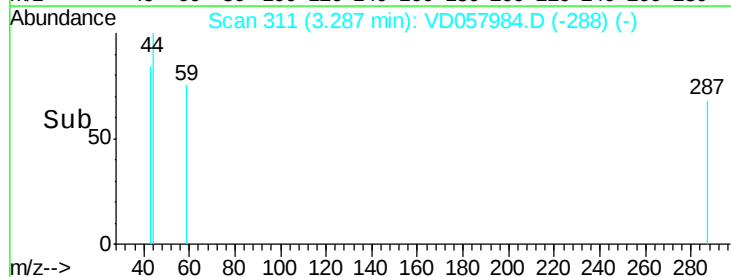
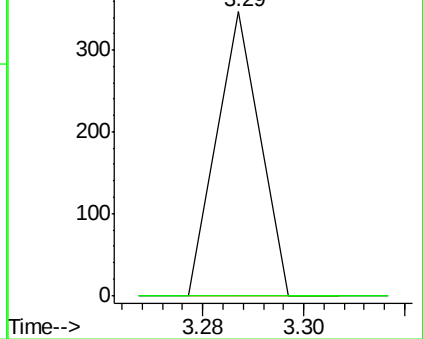
59 100

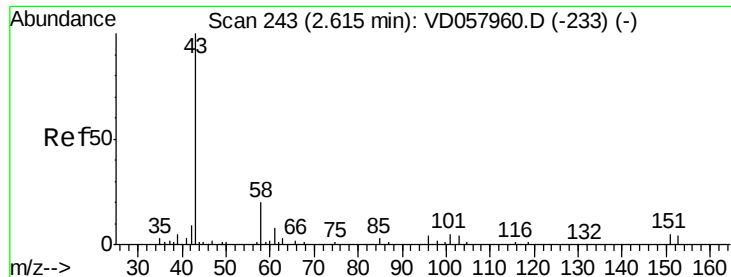
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 79.981 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD057984.D

Acq: 7 Jun 2018 21:03

Instrument :

MSVOA_D

ClientSampleId :

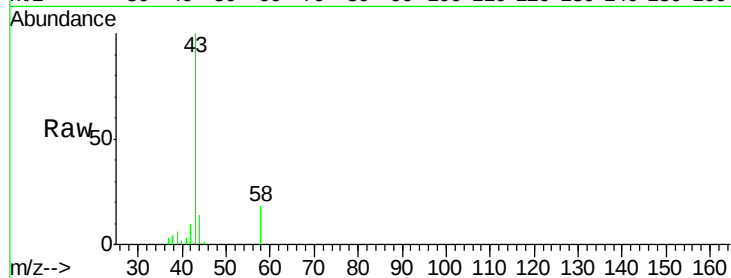
CAS1-SB-02-1-2

Tgt Ion: 43 Resp: 84618

Ion Ratio Lower Upper

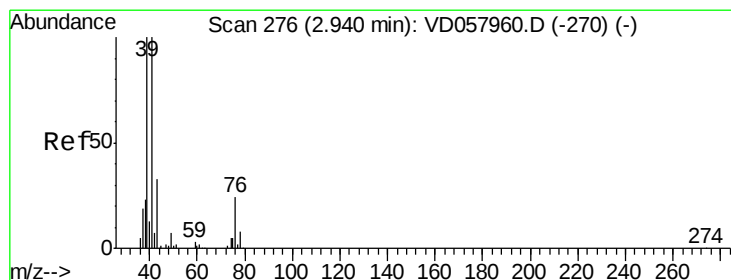
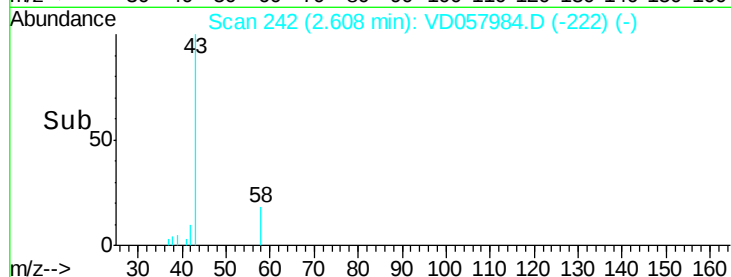
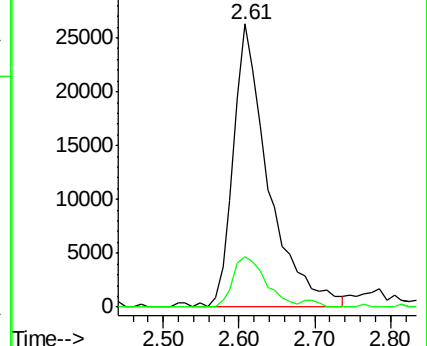
43 100

58 17.6 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 3.165 ug/l

RT: 2.92 min Scan# 274

Delta R.T. -0.02 min

Lab File: VD057984.D

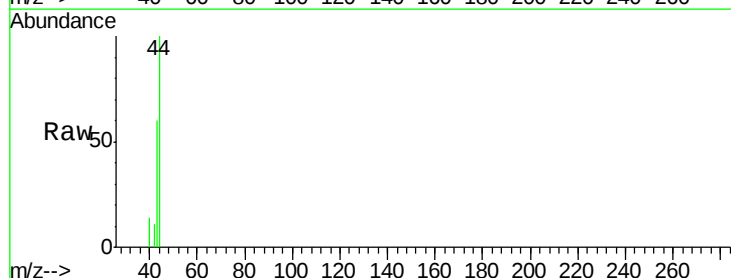
Acq: 7 Jun 2018 21:03

Tgt Ion: 43 Resp: 6477

Ion Ratio Lower Upper

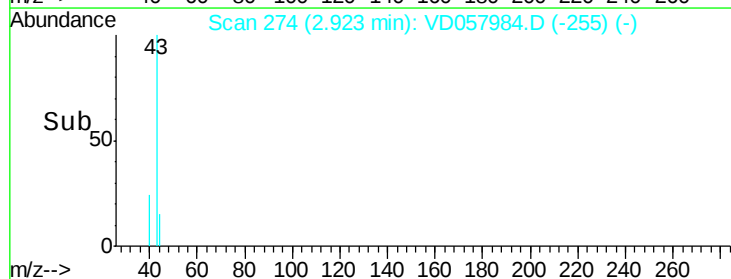
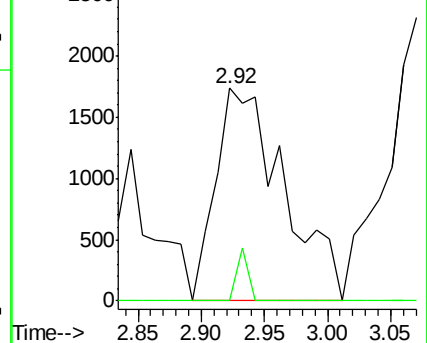
43 100

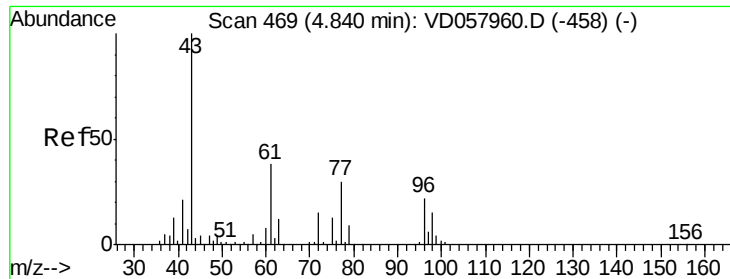
74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 4.877 ug/l

RT: 4.82 min Scan# 467

Delta R.T. -0.02 min

Lab File: VD057984.D

Acq: 7 Jun 2018 21:03

Instrument :

MSVOA_D

ClientSampleId :

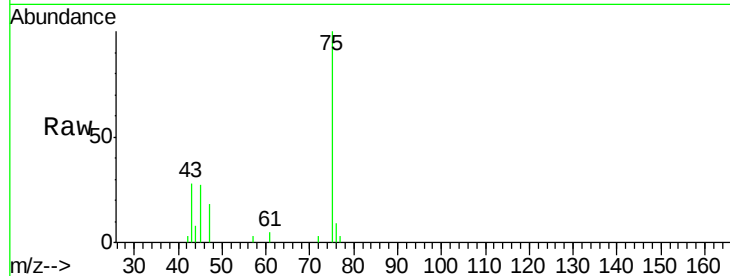
CAS1-SB-02-1-2

Tgt Ion: 43 Resp: 11726

Ion Ratio Lower Upper

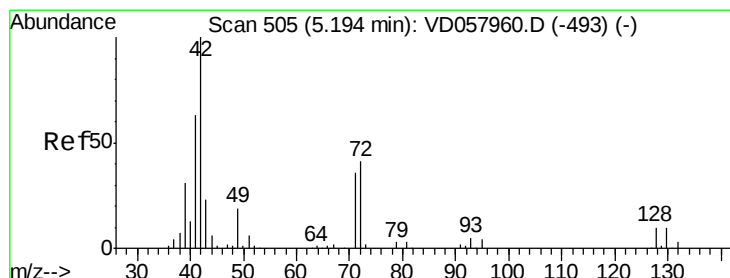
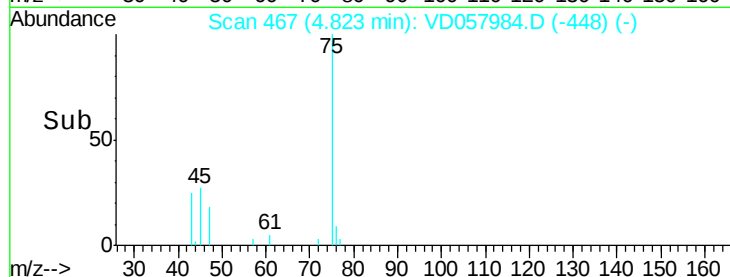
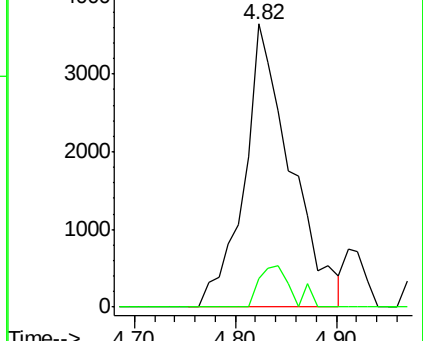
43 100

72 10.0 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.190 ug/l

RT: 5.18 min Scan# 503

Delta R.T. -0.02 min

Lab File: VD057984.D

Acq: 7 Jun 2018 21:03

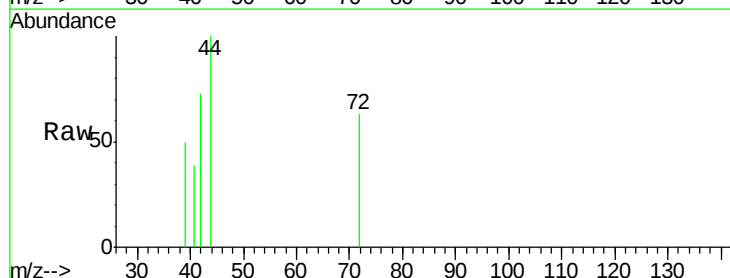
Tgt Ion: 42 Resp: 1500

Ion Ratio Lower Upper

42 100

72 35.1 28.5 42.7

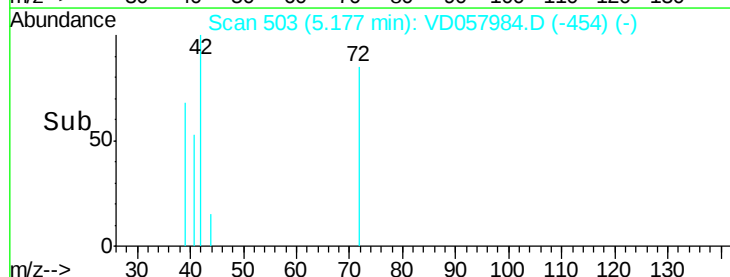
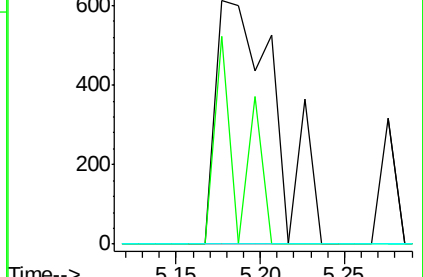
71 0.0 27.9 41.9#

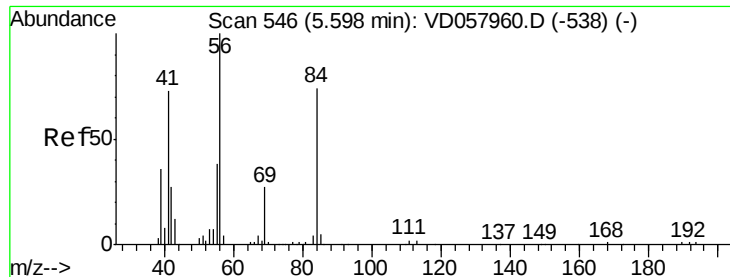


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

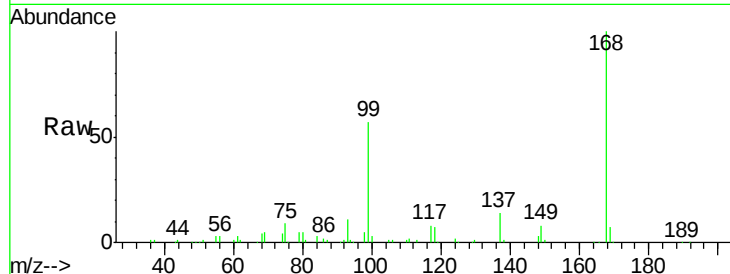




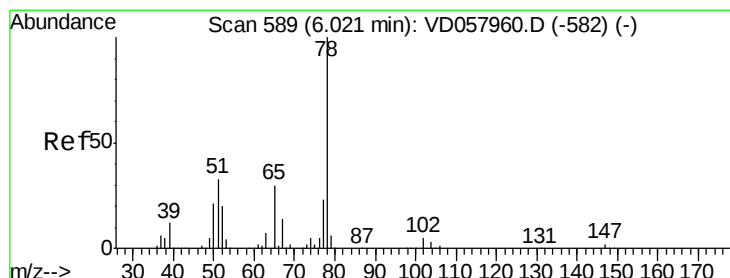
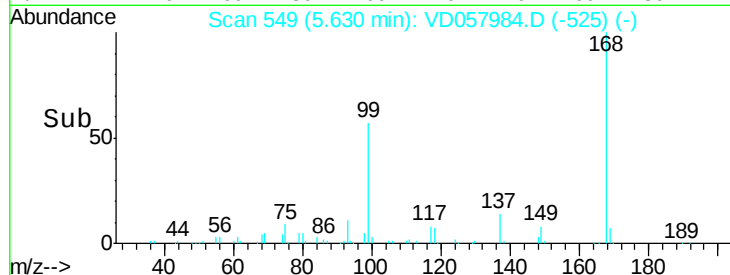
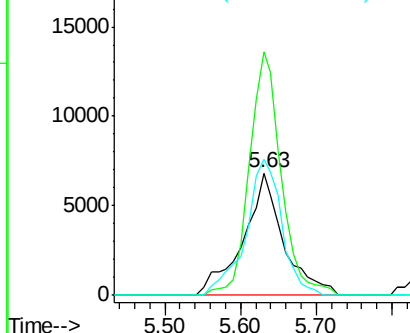
#31
Cyclohexane
Concen: 1.991 ug/l
RT: 5.63 min Scan# 549
Delta R.T. 0.03 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-1-2

Tgt Ion: 56 Resp: 25422
Ion Ratio Lower Upper
56 100
69 199.1 21.5 32.3#
84 111.7 61.0 91.6#

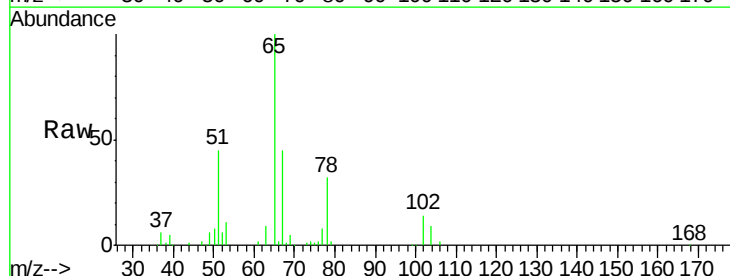


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

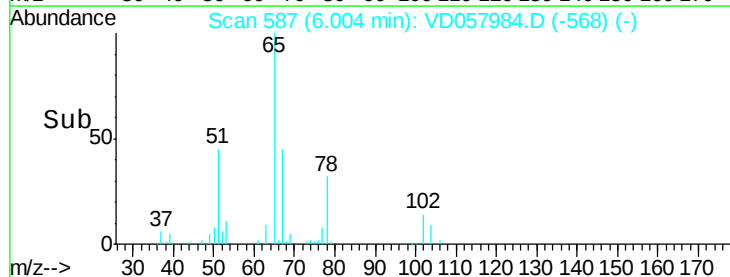
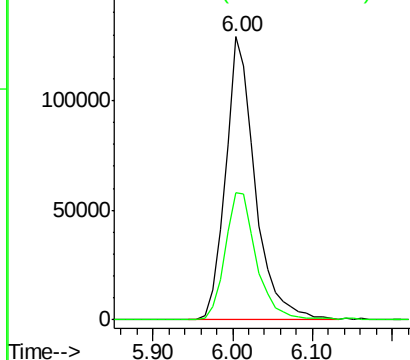


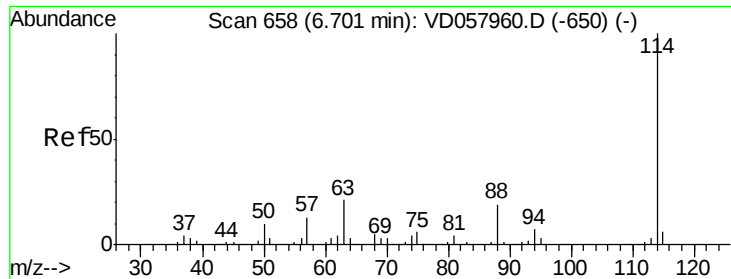
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.00 min Scan# 587
Delta R.T. -0.02 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

Tgt Ion: 65 Resp: 333819
Ion Ratio Lower Upper
65 100
67 44.9 0.0 94.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

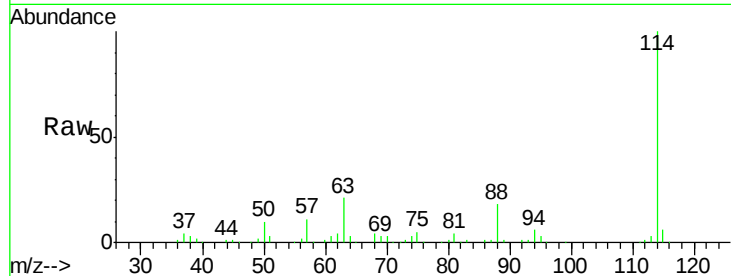




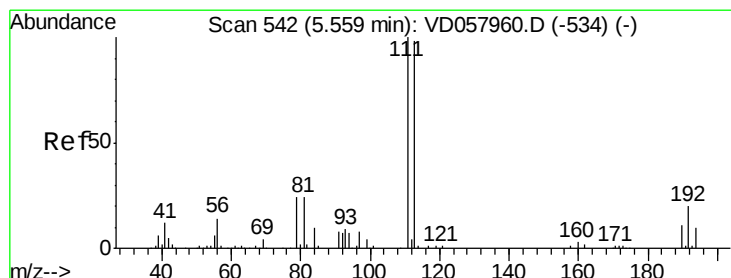
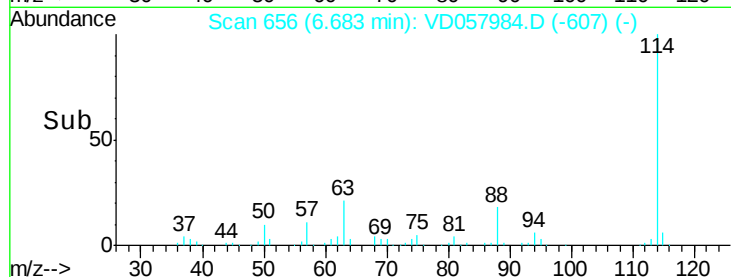
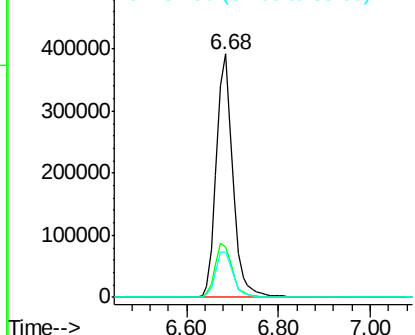
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD057984.D
 Acq: 7 Jun 2018 21:03

Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-1-2

Tgt Ion:114 Resp: 975355
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.8
 88 18.4 0.0 37.8

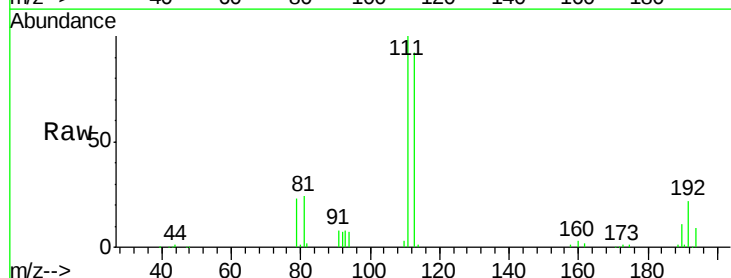


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC

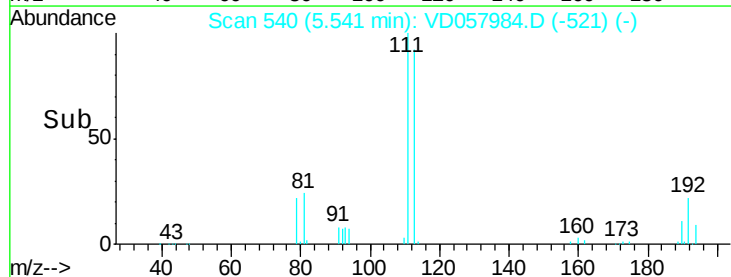
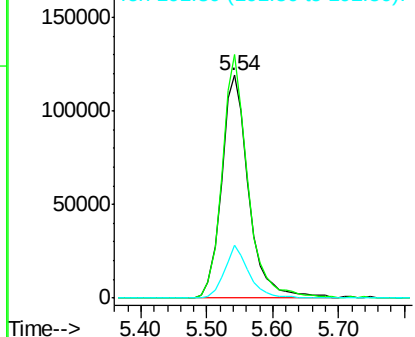


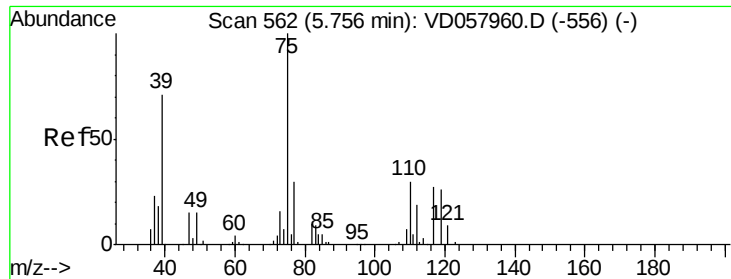
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 540
 Delta R.T. -0.02 min
 Lab File: VD057984.D
 Acq: 7 Jun 2018 21:03

Tgt Ion:113 Resp: 341131
 Ion Ratio Lower Upper
 113 100
 111 109.1 81.5 122.3
 192 23.5 16.4 24.6



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

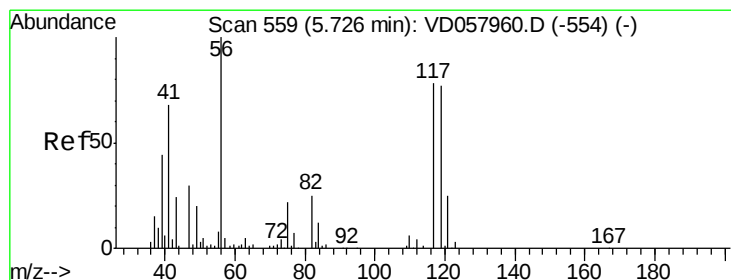
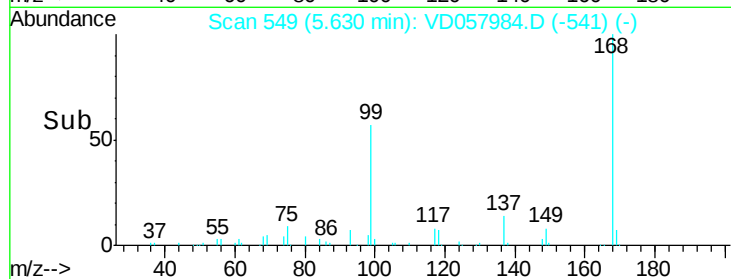
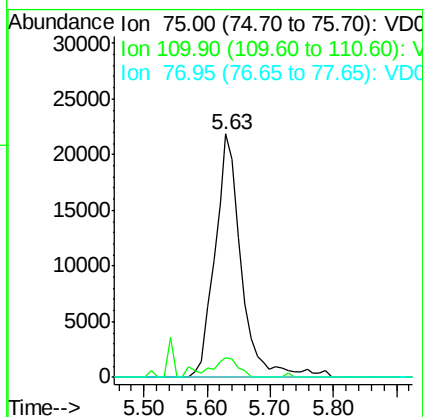
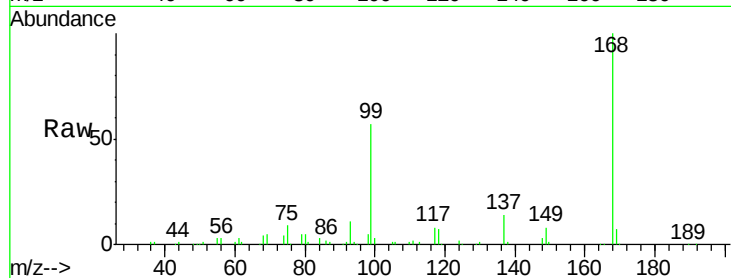




#36
 1,1-Dichloropropene
 Concen: 5.933 ug/l
 RT: 5.63 min Scan# 549
 Delta R.T. -0.13 min
 Lab File: VD057984.D
 Acq: 7 Jun 2018 21:03

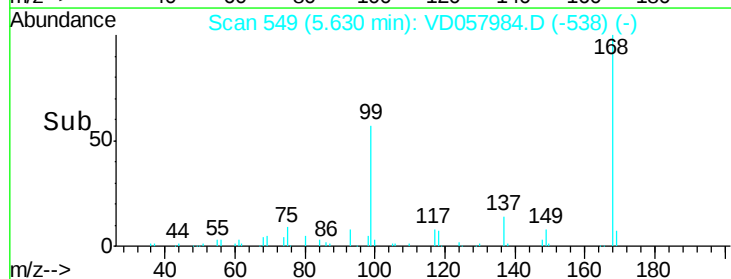
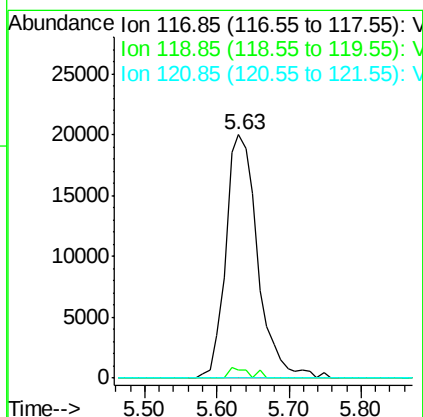
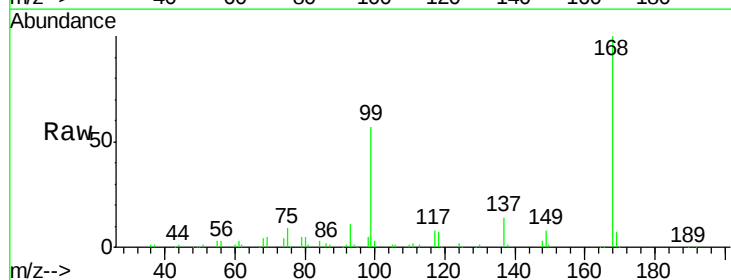
Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-1-2

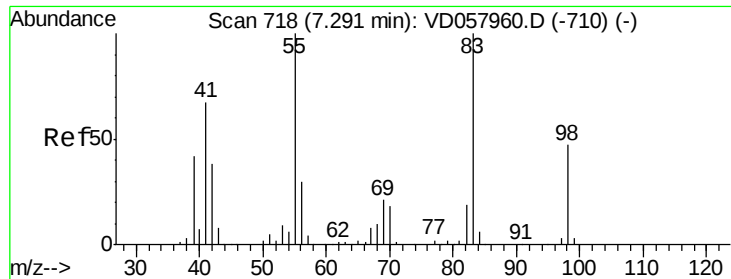
Tgt Ion: 75 Resp: 63754
 Ion Ratio Lower Upper
 75 100
 110 7.9 14.8 44.3#
 77 0.0 23.9 35.9#



#38
 Carbon Tetrachloride
 Concen: 5.804 ug/l
 RT: 5.63 min Scan# 549
 Delta R.T. -0.10 min
 Lab File: VD057984.D
 Acq: 7 Jun 2018 21:03

Tgt Ion: 117 Resp: 61471
 Ion Ratio Lower Upper
 117 100
 119 3.4 76.1 114.1#
 121 0.0 24.9 37.3#

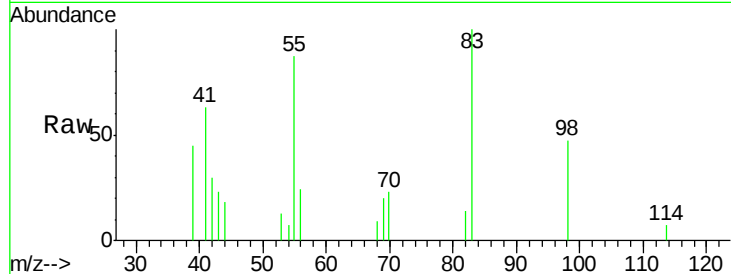




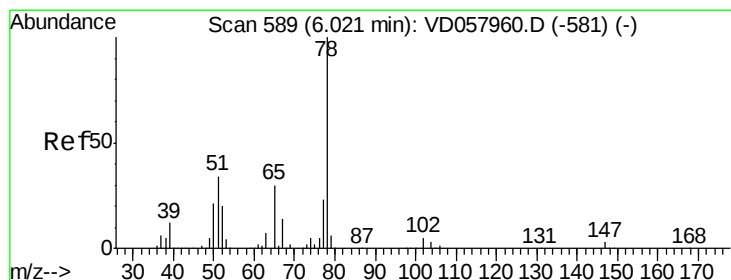
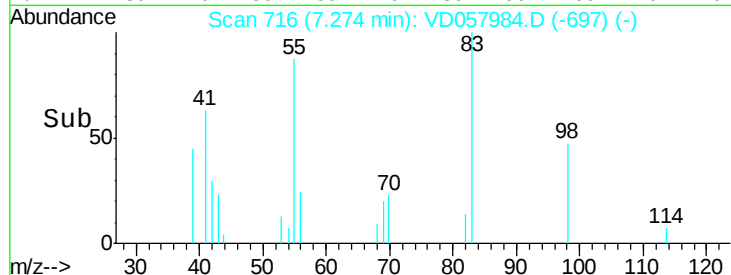
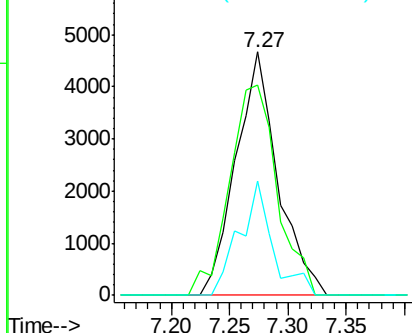
#39
Methylcyclohexane
Concen: 1.092 ug/l
RT: 7.27 min Scan# 716
Delta R.T. -0.02 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-1-2

Tgt Ion: 83 Resp: 11632
Ion Ratio Lower Upper
83 100
55 86.6 80.3 120.5
98 47.2 38.0 57.0

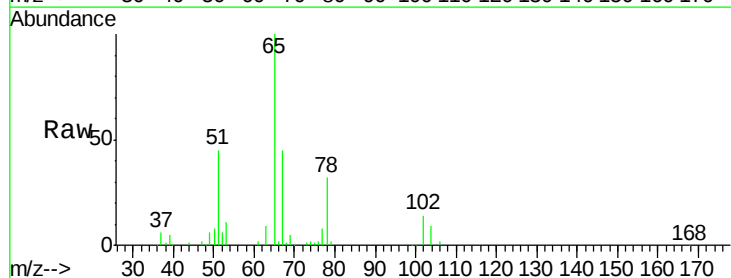


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

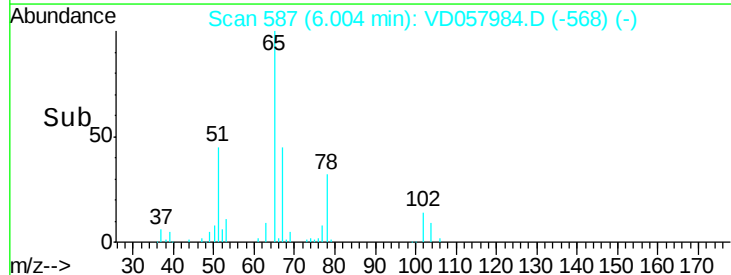
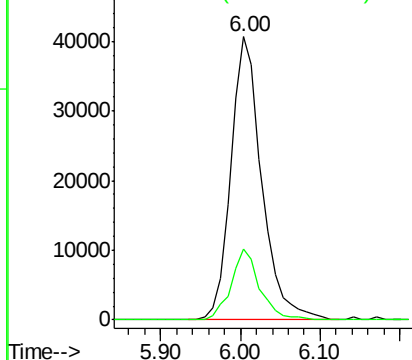


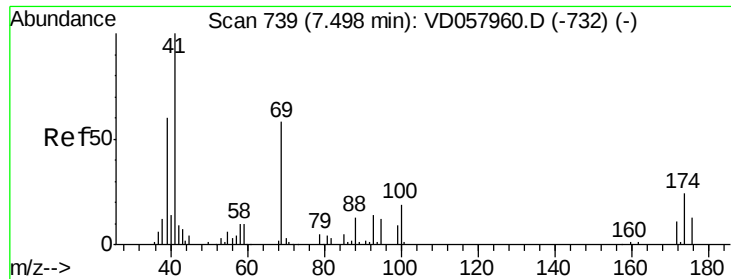
#40
Benzene
Concen: 4.372 ug/l
RT: 6.00 min Scan# 587
Delta R.T. -0.02 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

Tgt Ion: 78 Resp: 109758
Ion Ratio Lower Upper
78 100
77 25.1 18.1 27.1



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC

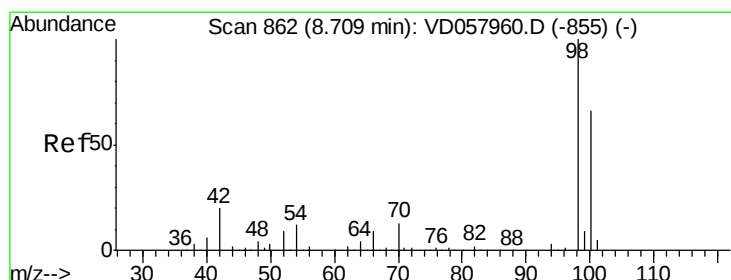
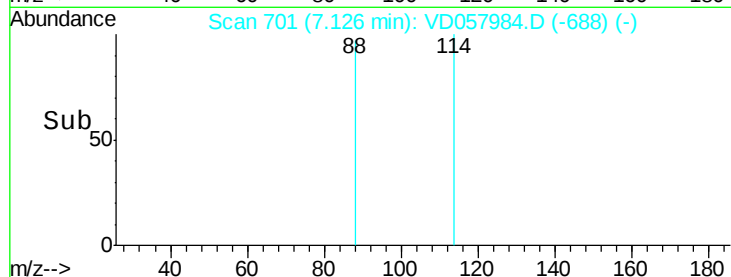
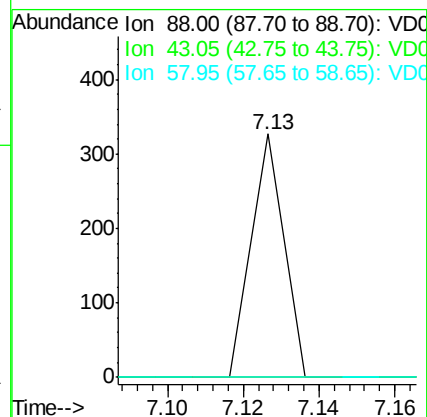
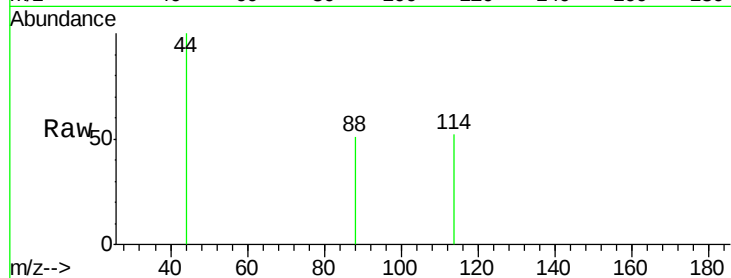




#49
1,4-Dioxane
Concen: 4.928 ug/l
RT: 7.13 min Scan# 701
Delta R.T. -0.37 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

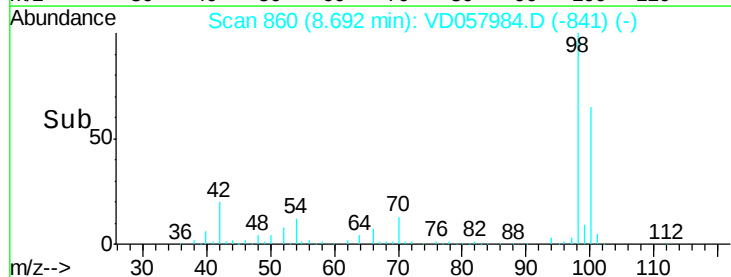
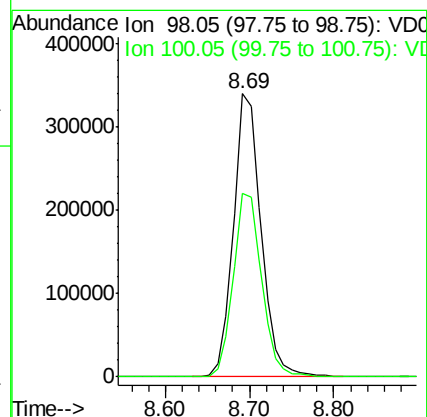
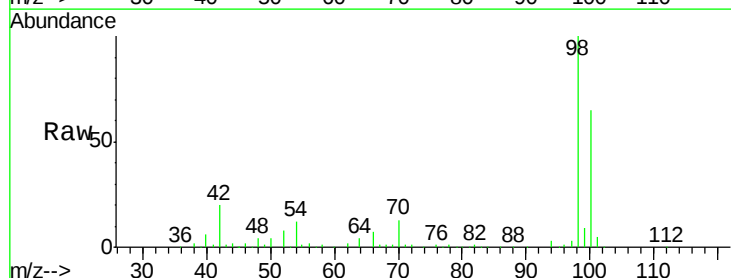
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-1-2

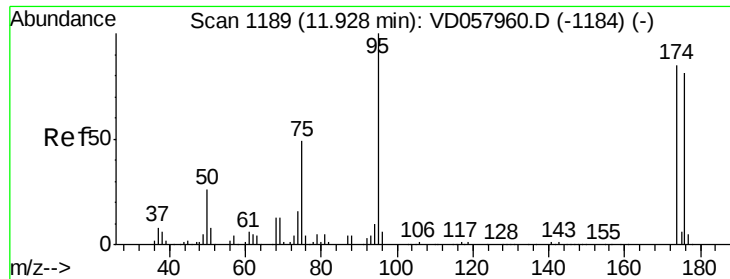
Tgt Ion: 88 Resp: 193
Ion Ratio Lower Upper
88 100
43 0.0 46.6 69.8#
58 0.0 63.6 95.4#



#50
Toluene-d8
Concen: 4.928 ug/l
RT: 8.69 min Scan# 860
Delta R.T. -0.02 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

Tgt Ion: 98 Resp: 776519
Ion Ratio Lower Upper
98 100
100 65.0 53.4 80.0

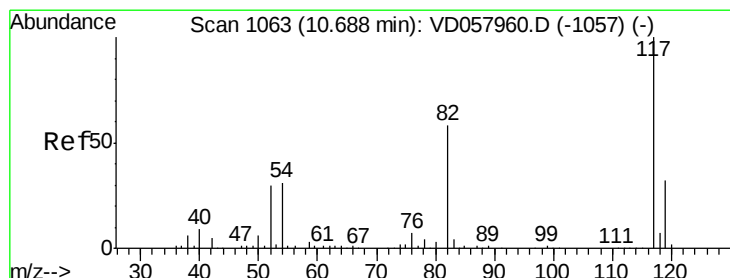
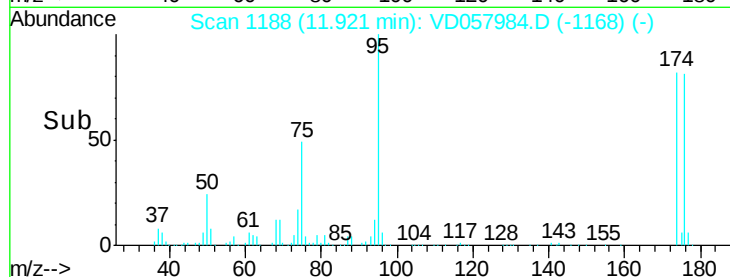
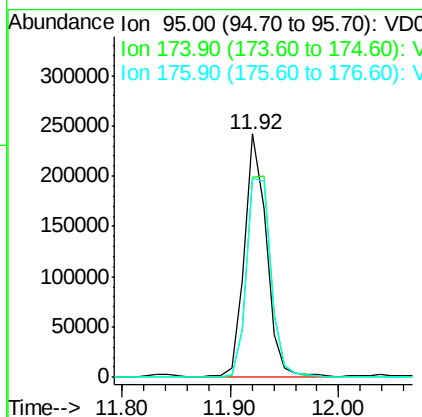
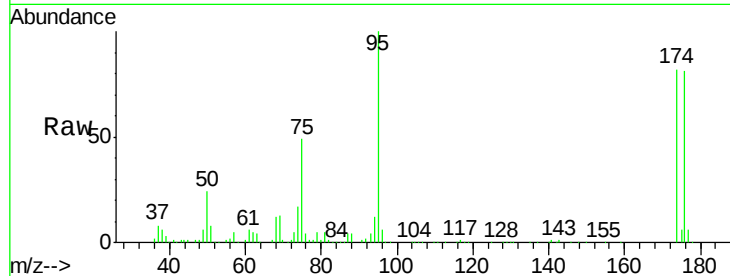




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.01 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

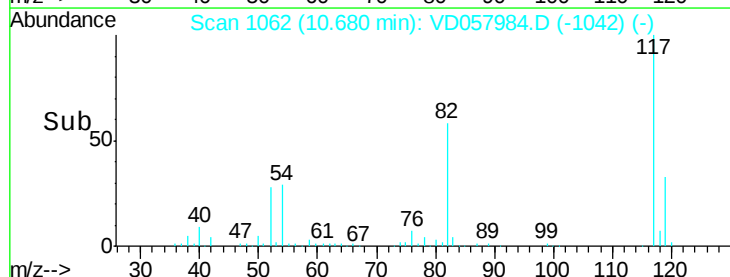
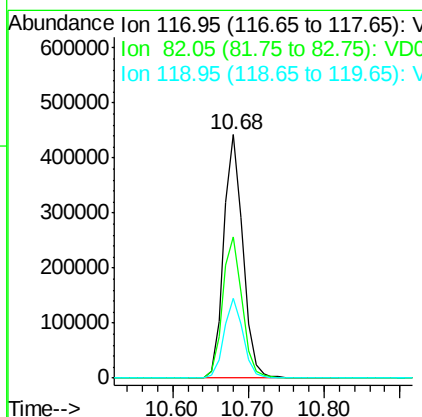
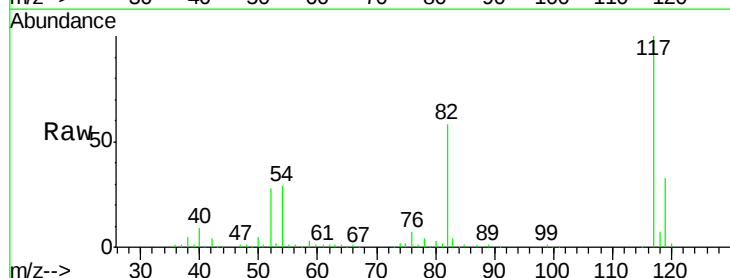
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-1-2

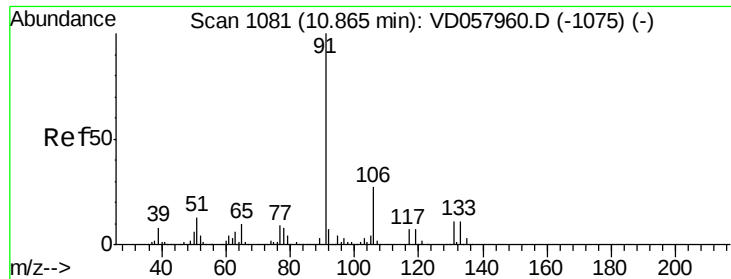
Tgt Ion: 95 Resp: 341296
Ion Ratio Lower Upper
95 100
174 82.4 0.0 169.4
176 81.5 0.0 162.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

Tgt Ion: 117 Resp: 776224
Ion Ratio Lower Upper
117 100
82 58.1 46.8 70.2
119 32.7 25.8 38.6

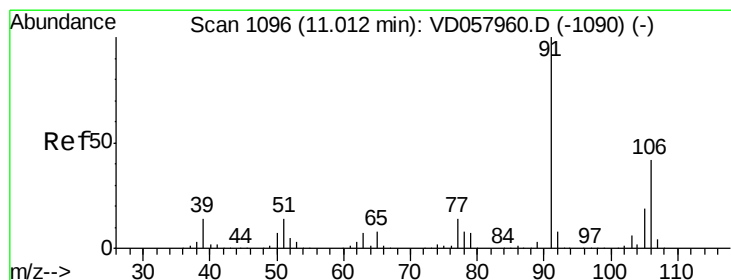
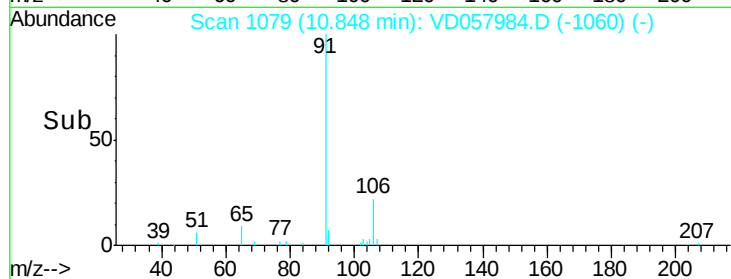
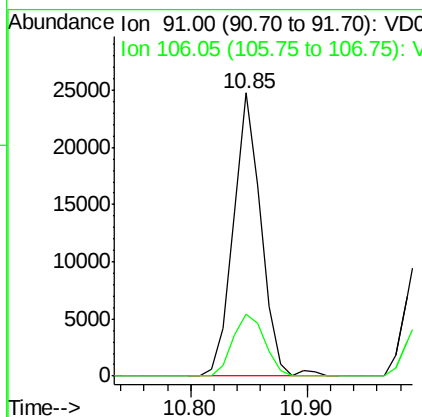
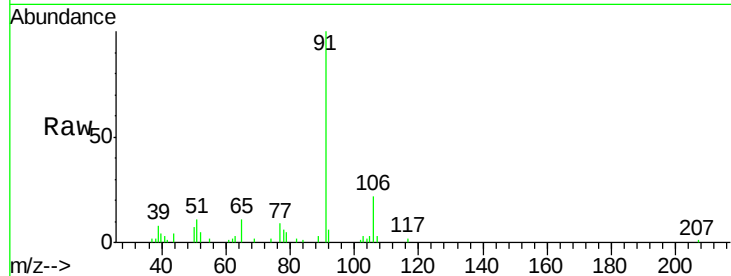




#67
Ethyl Benzene
Concen: 1.429 ug/l
RT: 10.85 min Scan# 1079
Delta R.T. -0.02 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

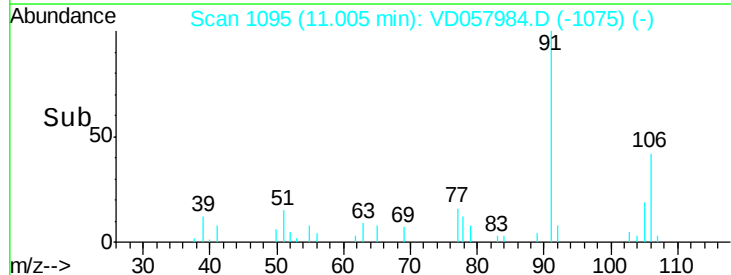
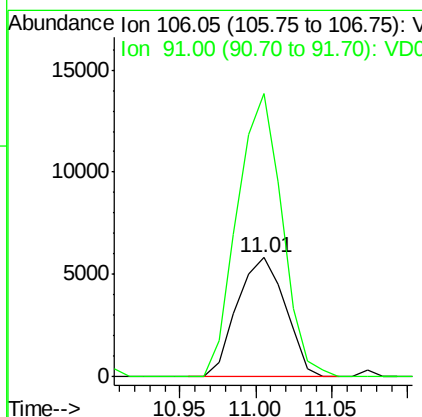
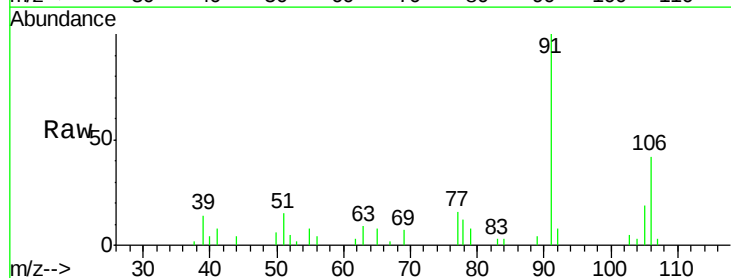
Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-1-2

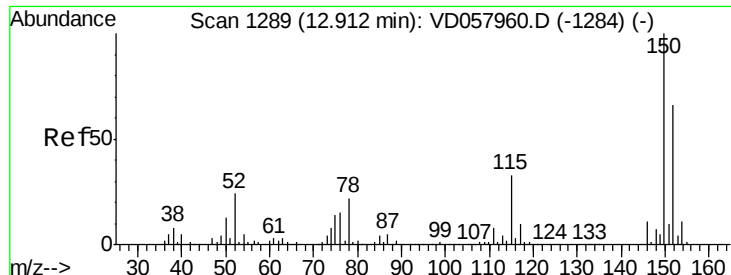
Tgt Ion: 91 Resp: 40560
Ion Ratio Lower Upper
91 100
106 21.8 21.5 32.3



#68
m/p-Xylenes
Concen: 1.405 ug/l
RT: 11.01 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

Tgt Ion: 106 Resp: 13001
Ion Ratio Lower Upper
106 100
91 237.0 190.4 285.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD057984.D

Acq: 7 Jun 2018 21:03

Instrument :

MSVOA_D

ClientSampleId :

CAS1-SB-02-1-2

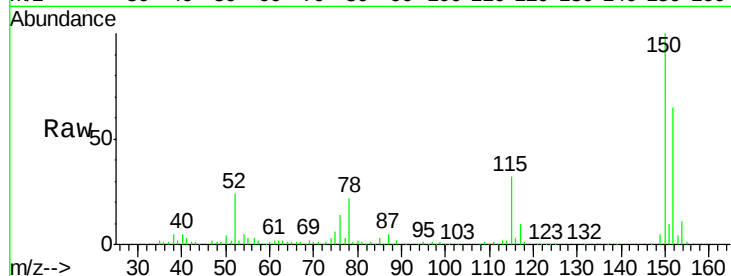
Tgt Ion:152 Resp: 387239

Ion Ratio Lower Upper

152 100

115 48.8 25.6 76.6

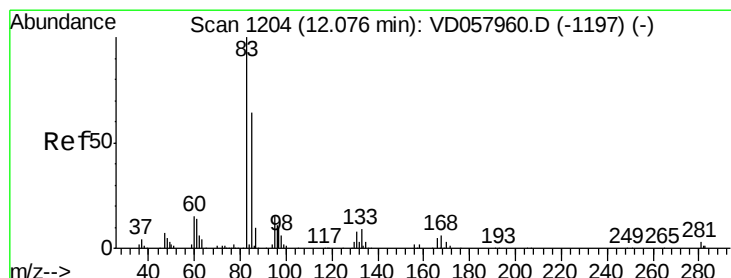
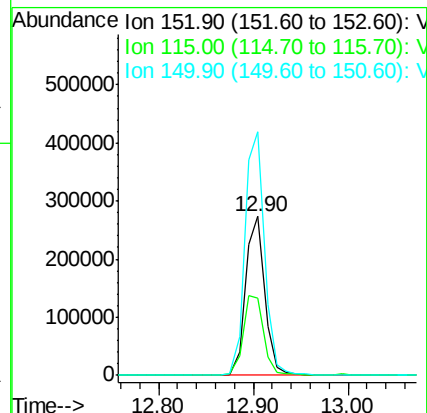
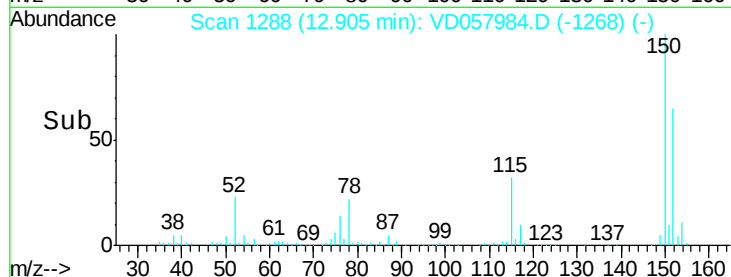
150 153.0 0.0 306.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: 1.771 ug/l

RT: 12.08 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD057984.D

Acq: 7 Jun 2018 21:03

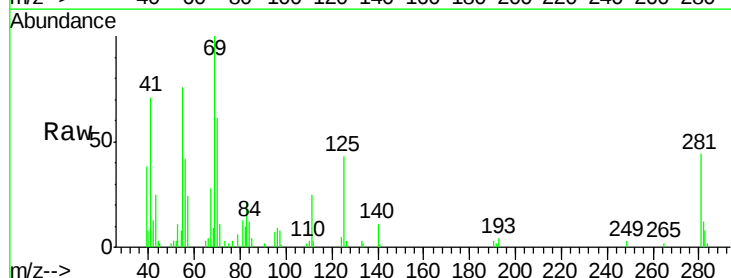
Tgt Ion: 83 Resp: 9906

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.6#

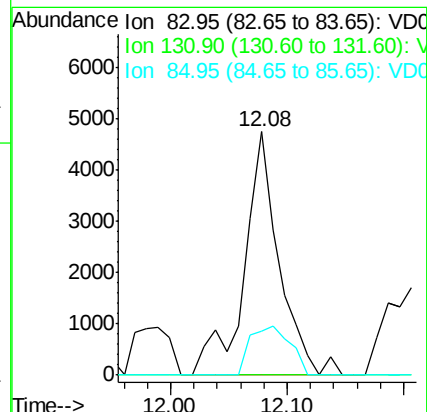
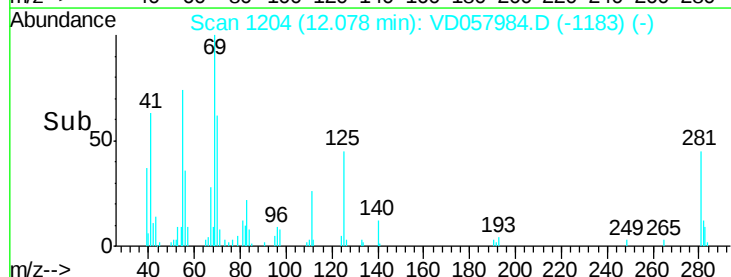
85 17.8 31.9 95.5#

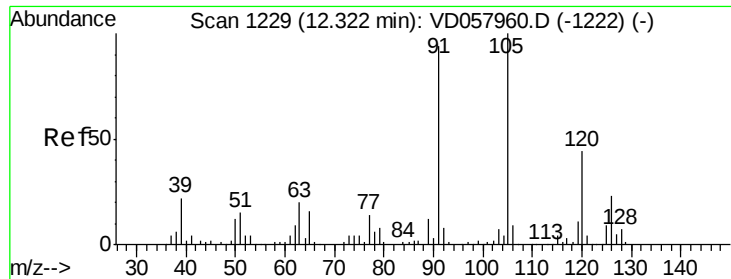


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V

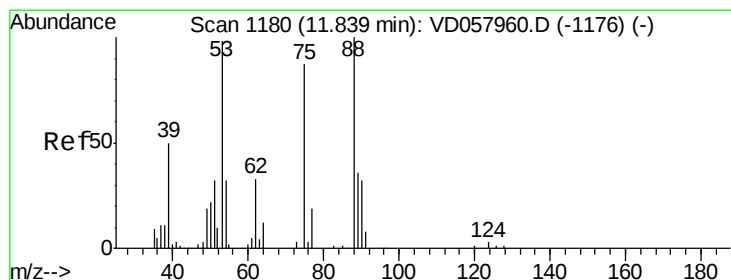
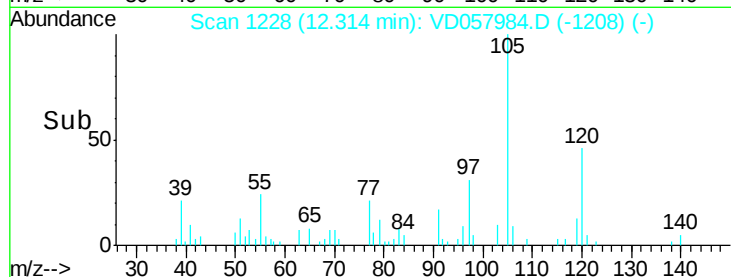
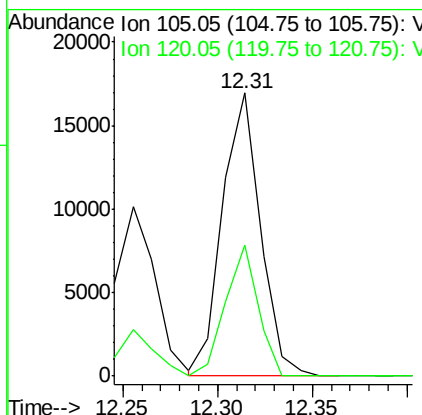
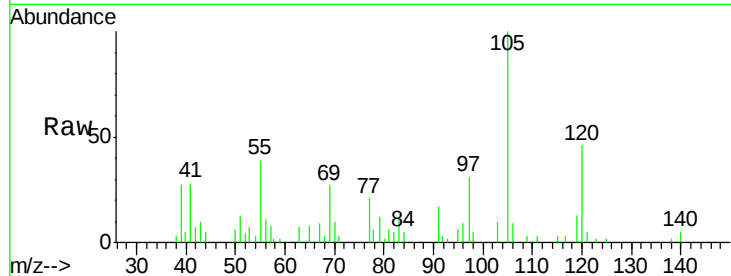




#80
 1,3,5-Trimethylbenzene
 Concen: 1.176 ug/l
 RT: 12.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VD057984.D
 Acq: 7 Jun 2018 21:03

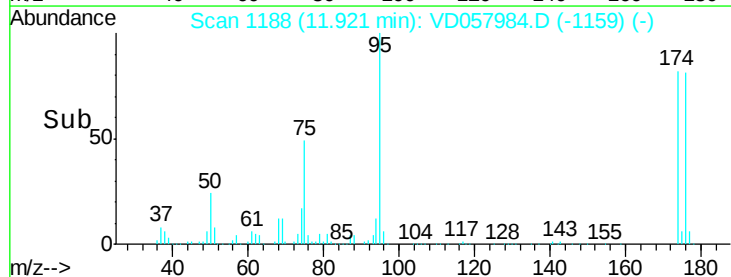
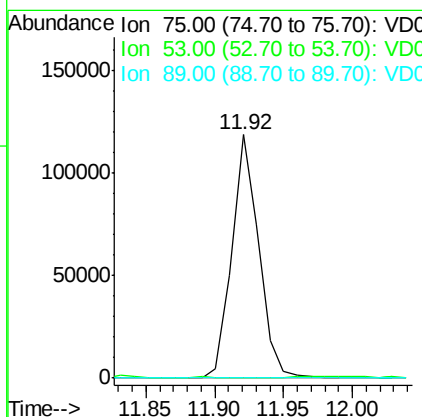
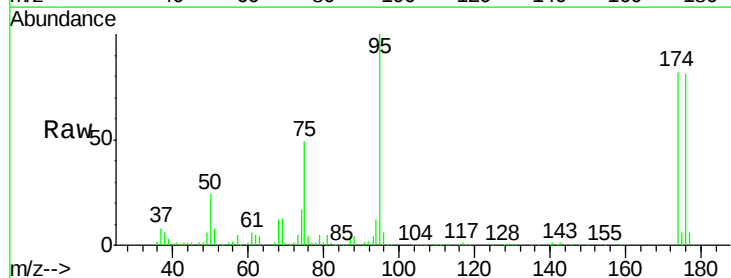
Instrument :
 MSVOA_D
 ClientSampleId :
 CAS1-SB-02-1-2

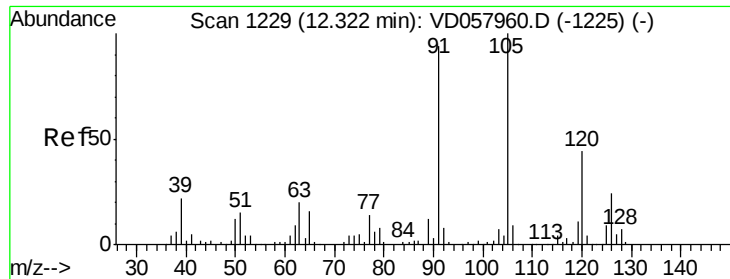
Tgt Ion:105 Resp: 23518
 Ion Ratio Lower Upper
 105 100
 120 46.2 22.0 66.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 112.091 ug/l
 RT: 11.92 min Scan# 1188
 Delta R.T. 0.08 min
 Lab File: VD057984.D
 Acq: 7 Jun 2018 21:03

Tgt Ion: 75 Resp: 161495
 Ion Ratio Lower Upper
 75 100
 53 0.3 89.3 133.9#
 89 0.0 33.3 49.9#





#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: VD057984.D

Acq: 7 Jun 2018 21:03

Instrument :

MSVOA_D

ClientSampleId :

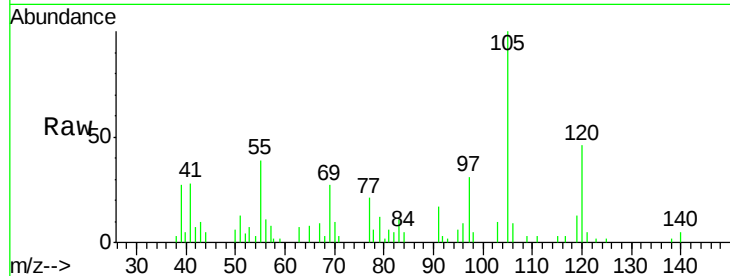
CAS1-SB-02-1-2

Tgt Ion: 91 Resp: 4858

Ion Ratio Lower Upper

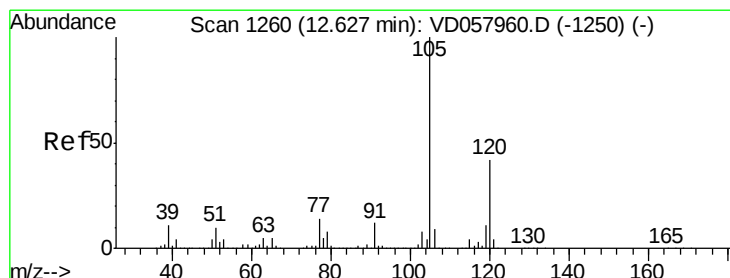
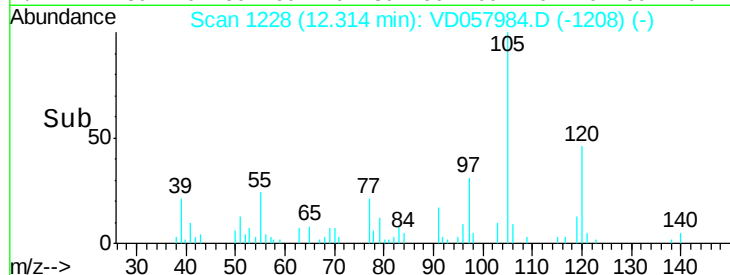
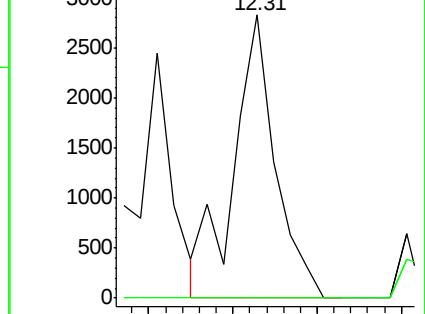
91 100

126 0.0 12.5 37.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#84

1,2,4-Trimethylbenzene

Concen: 1.797 ug/l

RT: 12.62 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VD057984.D

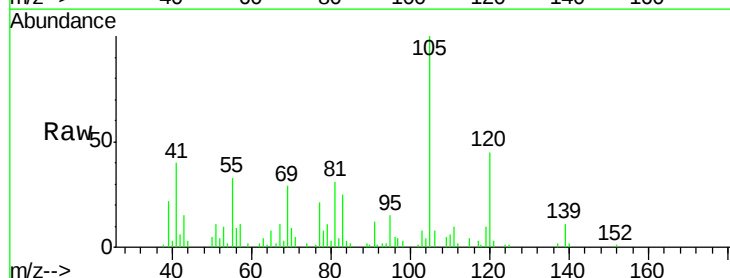
Acq: 7 Jun 2018 21:03

Tgt Ion: 105 Resp: 38657

Ion Ratio Lower Upper

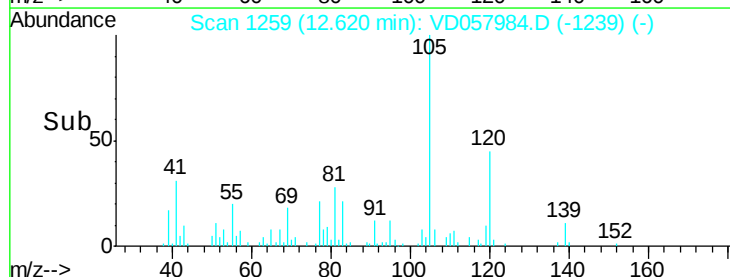
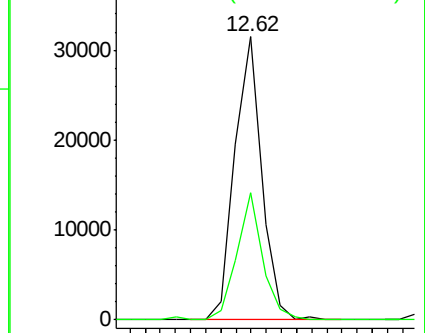
105 100

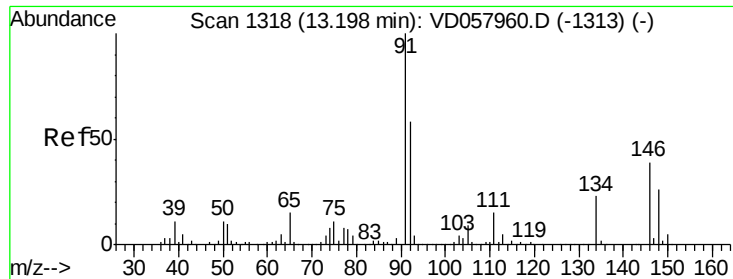
120 44.8 21.2 63.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

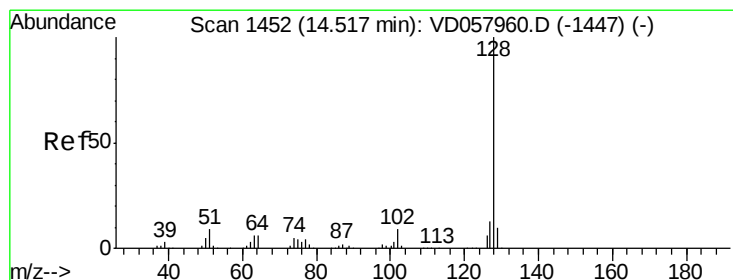
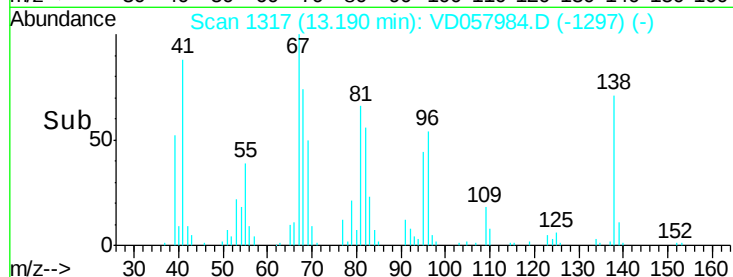
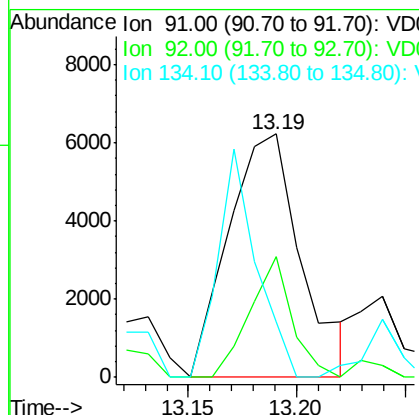
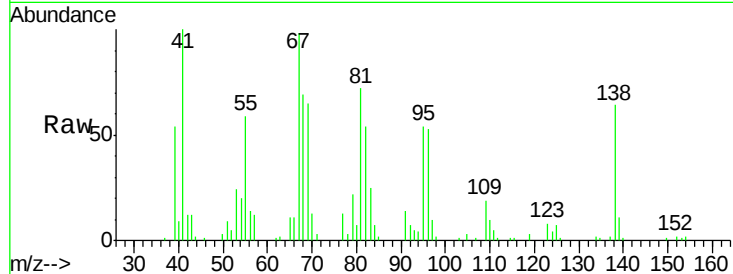




#89
n-Butylbenzene
Concen: Below Cal
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

Instrument :
MSVOA_D
ClientSampleId :
CAS1-SB-02-1-2

Tgt Ion: 91 Resp: 14592
Ion Ratio Lower Upper
91 100
92 49.8 29.2 87.6
134 22.7 11.3 33.9



#95
Naphthalene
Concen: 86.732 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD057984.D
Acq: 7 Jun 2018 21:03

Tgt Ion: 128 Resp: 1084302
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 10.9 8.2 12.2

