

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058345.D
 Acq On : 23 Jun 2018 17:14
 Operator : VA/AP
 Sample : J3664-20
 Misc : 5.84g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:08:30 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	5.66	168	883656	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.72	114	1117425	50.00	ug/l	0.03
63) Chlorobenzene-d5	10.70	117	918725	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.92	152	455662	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	260875	29.23	ug/l	0.04
Spiked Amount	50.000		Recovery	=	58.46%	
35) Dibromofluoromethane	5.57	113	253630	27.89	ug/l	0.03
Spiked Amount	50.000		Recovery	=	55.78%	
50) Toluene-d8	8.72	98	636830	28.94	ug/l	0.02
Spiked Amount	50.000		Recovery	=	57.88%	
62) 4-Bromofluorobenzene	11.93	95	271988	30.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	60.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.35	85	1730	Below Cal	#	43
3) Chloromethane	1.57	50	26156	2.66	ug/l #	43
4) Vinyl Chloride	1.57	62	2980472	643.86	ug/l	98
6) Chloroethane	1.97	64	490	1.65	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	2.58	101	186192	46.14	ug/l	97
11) Tert butyl alcohol	3.29	59	14995	50.94	ug/l #	78
12) 1,1-Dichloroethene	2.57	96	804070	264.86	ug/l	98
13) Acrolein	2.59	56	191	1.14	ug/l #	70
16) Acetone	2.63	43	29214	23.93	ug/l #	92
20) Methylene Chloride	3.09	84	40693	8.85	ug/l	87
21) trans-1,2-Dichloroethene	3.42	96	252495	76.10	ug/l	88
24) 1,1-Dichloroethane	4.01	63	166502	11.01	ug/l	97
27) cis-1,2-Dichloroethene	4.83	96	14707087	1773.82	ug/l	84
29) Tetrahydrofuran	5.22	42	5816	4.11	ug/l #	68
30) Chloroform	5.35	83	488277	30.59	ug/l	90
31) Cyclohexane	5.65	56	36165	Below Cal	#	1
36) 1,1-Dichloropropene	5.66	75	70667	6.39	ug/l #	48
37) Ethyl Acetate	4.90	43	7708	1.22	ug/l #	1
38) Carbon Tetrachloride	5.66	117	74279	6.76	ug/l #	14
39) Methylcyclohexane	7.33	83	43932	4.08	ug/l #	76
40) Benzene	6.04	78	206738	7.85	ug/l	97
42) 1,2-Dichloroethane	6.16	62	144519	13.61	ug/l	99
44) Trichloroethene	7.00	130	6331680	800.76	ug/l	96
49) 1,4-Dioxane	7.51	88	8340	181.04	ug/l #	75
51) 4-Methyl-2-Pentanone	8.62	43	126747	23.14	ug/l	98
52) Toluene	8.82	92	295196	19.69	ug/l	97
55) 1,1,2-Trichloroethane	9.47	97	176067	33.19	ug/l	97
59) 2-Hexanone	9.75	43	14288	3.61	ug/l #	32
64) Tetrachloroethene	9.53	164	111118	14.37	ug/l	98
65) Chlorobenzene	10.73	112	375548	21.85	ug/l	98
67) Ethyl Benzene	10.87	91	191663	6.32	ug/l	98
68) m/p-Xylenes	11.03	106	54886	5.42	ug/l	89
69) o-Xylene	11.41	106	15476	1.60	ug/l	93
73) Isopropylbenzene	11.79	105	106841	3.92	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

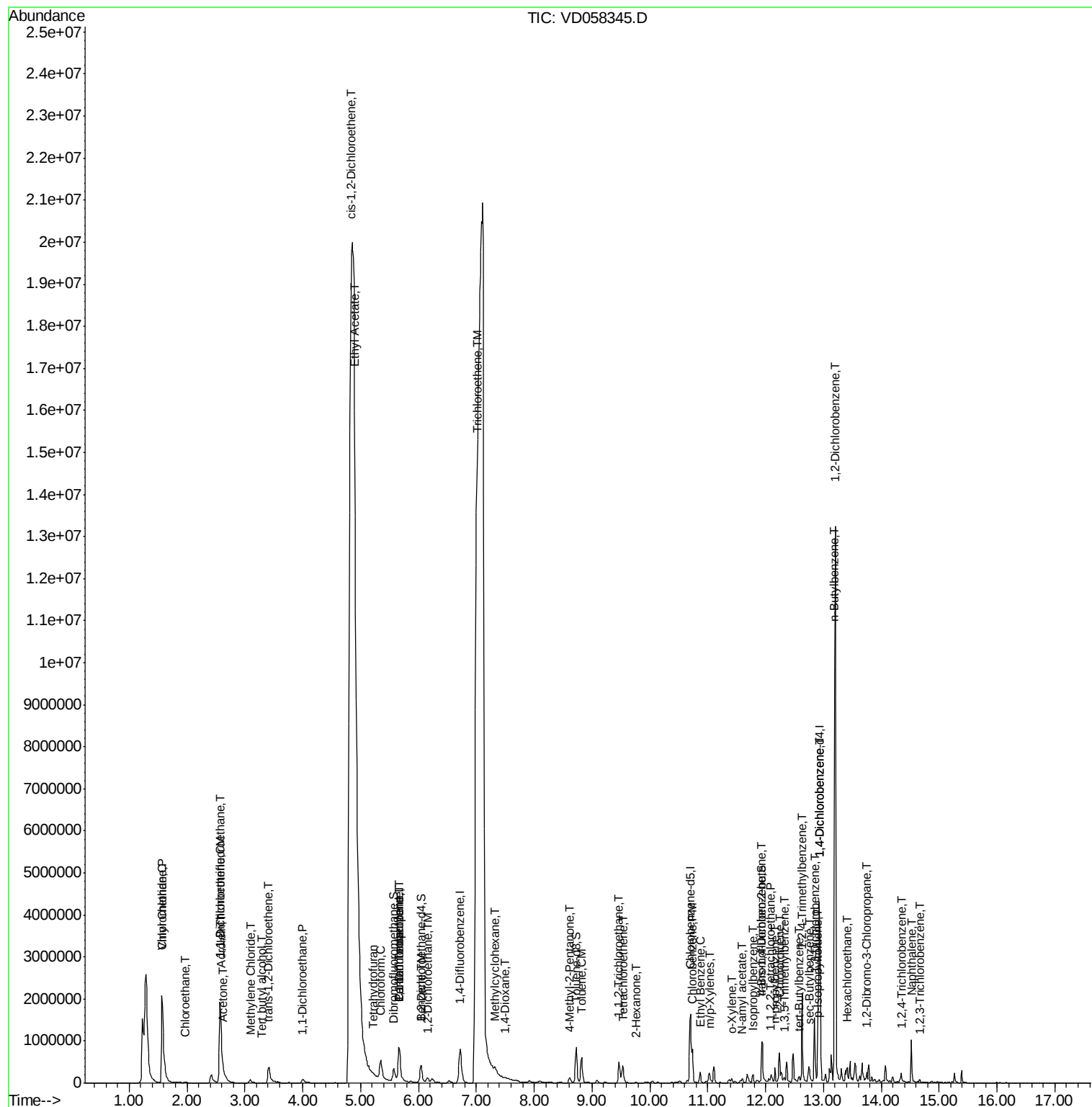
74) N-amy1 acetate	11.60	43	13050	1.24	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	12.08	83	12680	2.00	ug/l	70
78) n-propylbenzene	12.16	91	221913	6.30	ug/l	99
79) 2-Chlorotoluene	12.24	91	55370	2.75	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.33	105	28317	1.33	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.93	75	128157	78.98	ug/l #	1
82) 4-Chlorotoluene	12.33	91	8002	Below Cal	#	45
83) tert-Butylbenzene	12.58	119	47039	1.92	ug/l	97
84) 1,2,4-Trimethylbenzene	12.63	105	923578	39.97	ug/l	100
85) sec-Butylbenzene	12.76	105	135305	4.72	ug/l	90
86) p-Isopropyltoluene	12.89	119	41375	1.78	ug/l	96
87) 1,3-Dichlorobenzene	12.85	146	426912	30.09	ug/l	99
88) 1,4-Dichlorobenzene	12.94	146	1300806	93.90	ug/l	99
89) n-Butylbenzene	13.18	91	90591	3.71	ug/l #	1
90) Hexachloroethane	13.40	117	23267	3.86	ug/l #	1
91) 1,2-Dichlorobenzene	13.20	146	5074518	420.36	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.76	75	1808	1.79	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.35	180	48728	4.22	ug/l	92
95) Naphthalene	14.52	128	608305	40.00	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	18735	1.85	ug/l #	92

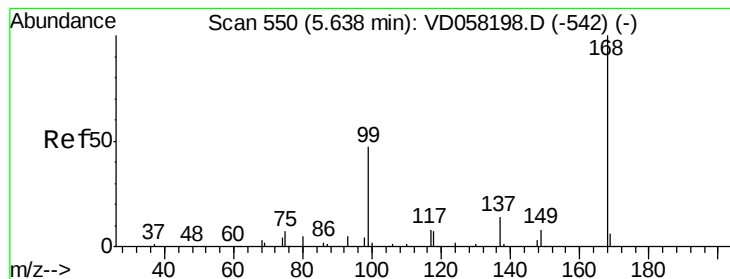
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.03 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

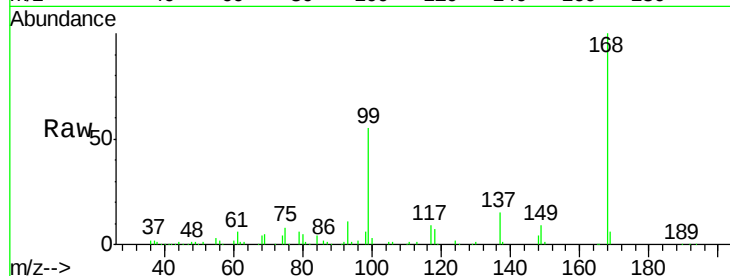
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 883656

Ion Ratio Lower Upper

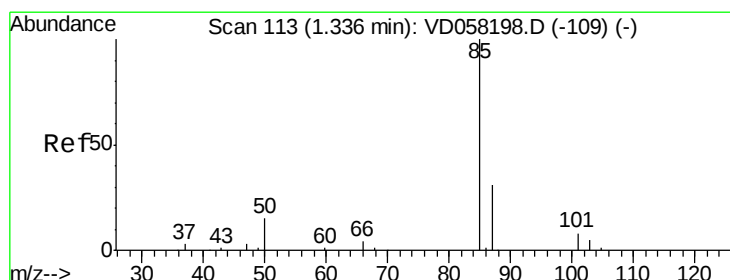
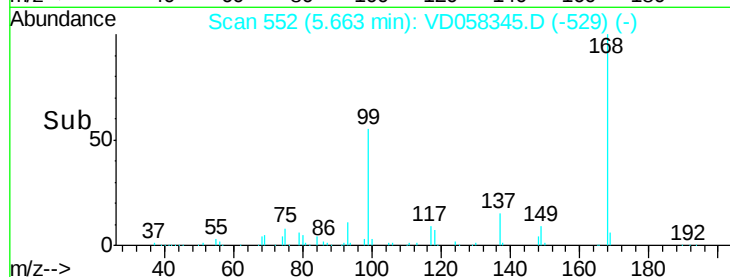
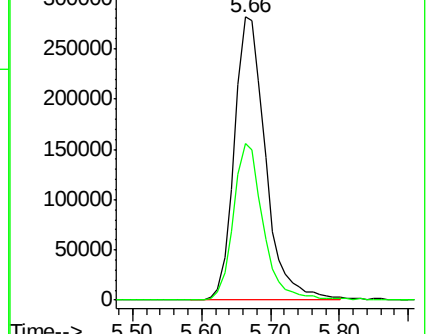
168 100

99 55.4 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: 1.35 min Scan# 114

Delta R.T. 0.02 min

Lab File: VD058345.D

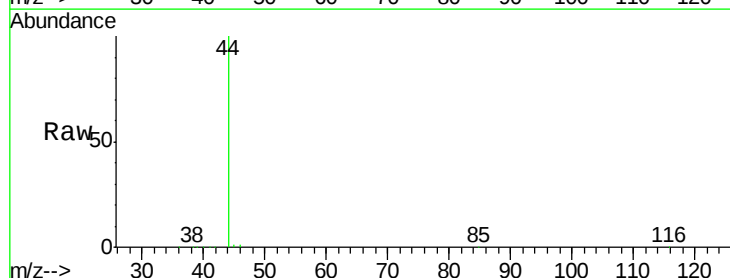
Acq: 23 Jun 2018 17:14

Tgt Ion: 85 Resp: 1730

Ion Ratio Lower Upper

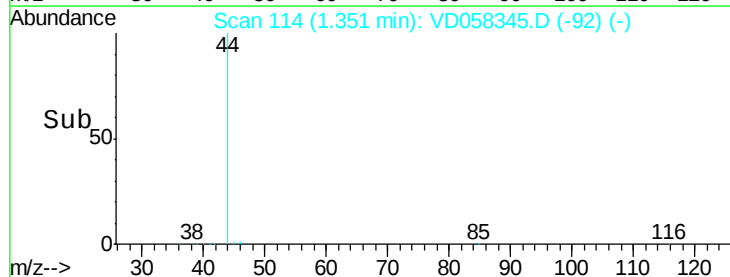
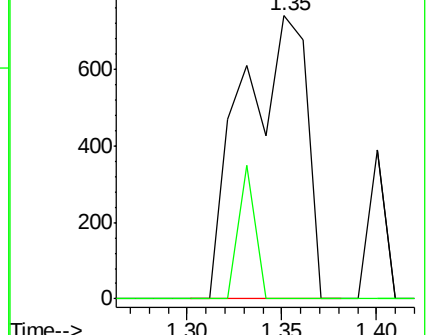
85 100

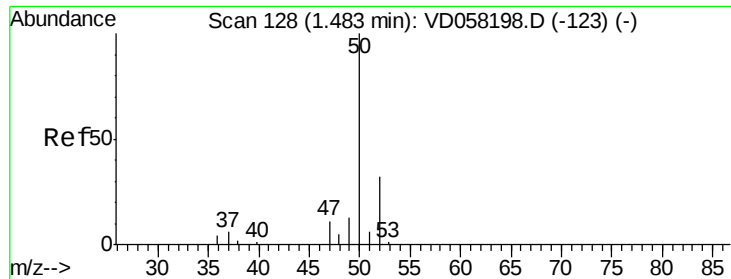
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 2.66 ug/l

RT: 1.57 min Scan# 136

Delta R.T. 0.08 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

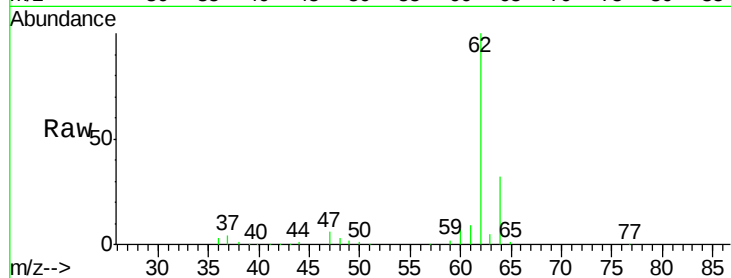
ClientSampleId :

Tot Ion: 50 Resp: 26156

Ion Ratio Lower Upper

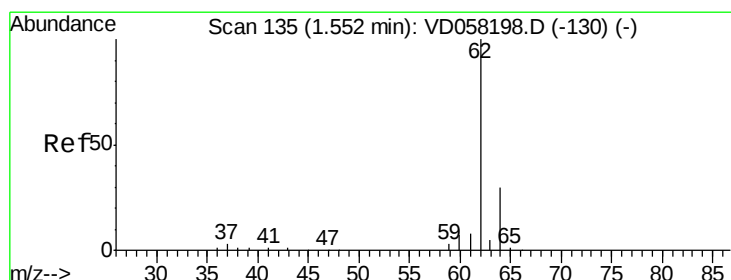
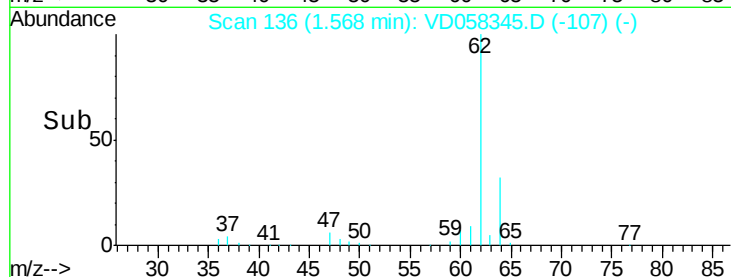
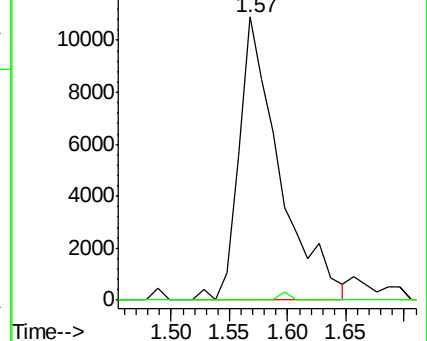
50 100

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



#4

Vinyl Chloride

Concen: 643.86 ug/l

RT: 1.57 min Scan# 136

Delta R.T. 0.02 min

Lab File: VD058345.D

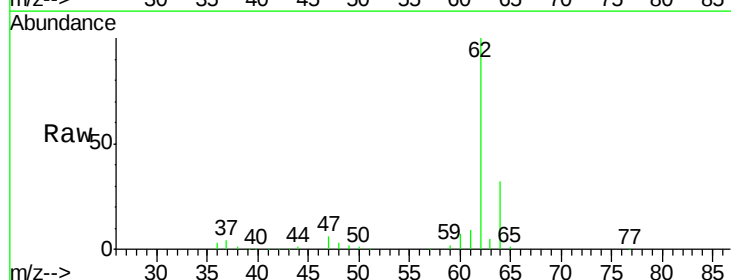
Acq: 23 Jun 2018 17:14

Tgt Ion: 62 Resp: 2980472

Ion Ratio Lower Upper

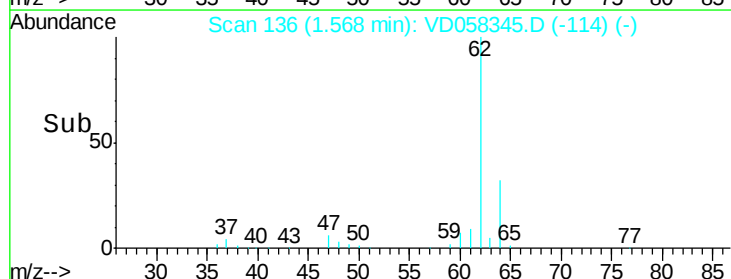
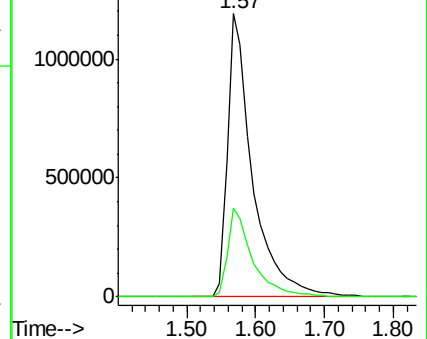
62 100

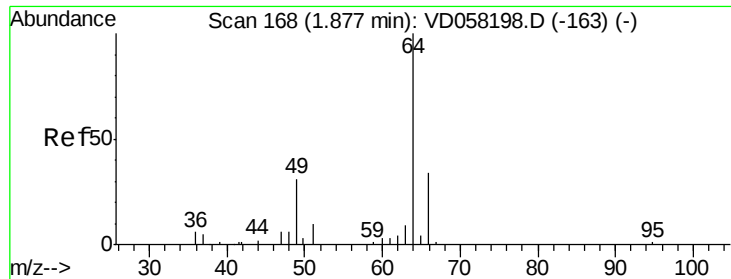
64 31.6 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#6

Chloroethane

Concen: 1.65 ug/l

RT: 1.97 min Scan# 177

Delta R.T. 0.09 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

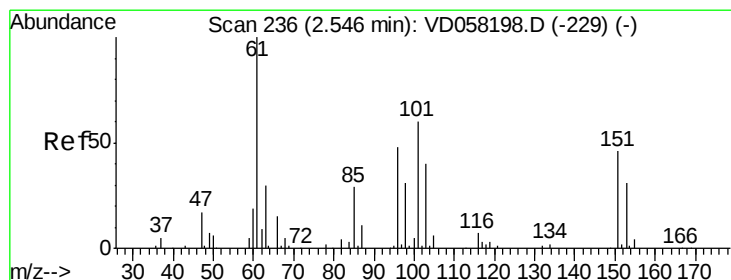
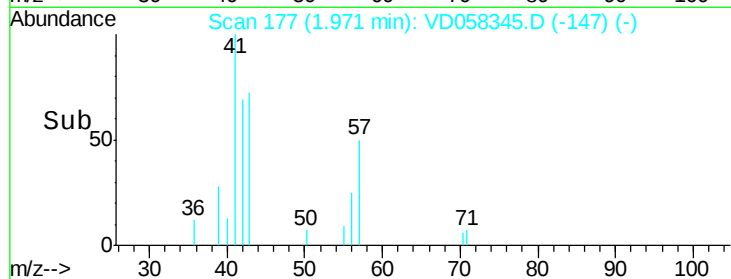
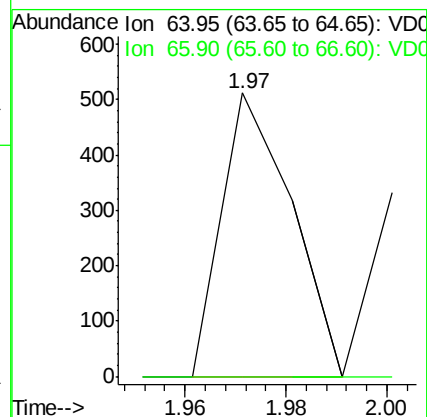
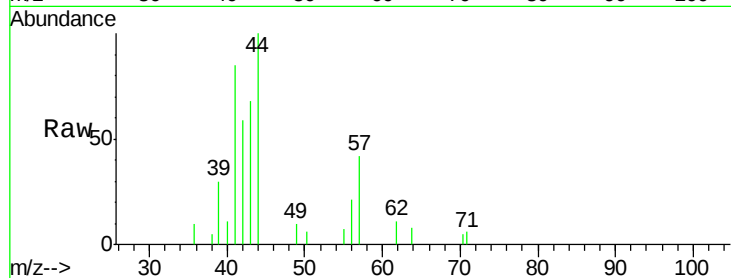
ClientSampleId :

Tot Ion: 64 Resp: 490

Ion Ratio Lower Upper

64 100

66 0.0 27.3 40.9#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.14 ug/l

RT: 2.58 min Scan# 239

Delta R.T. 0.04 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

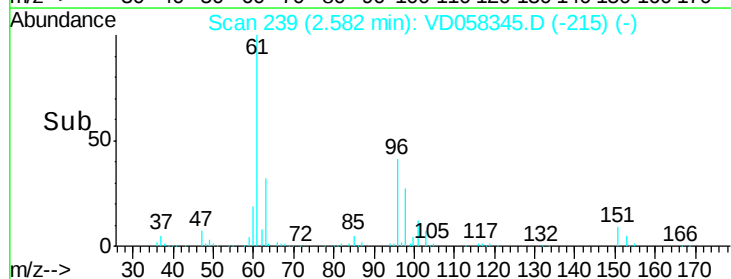
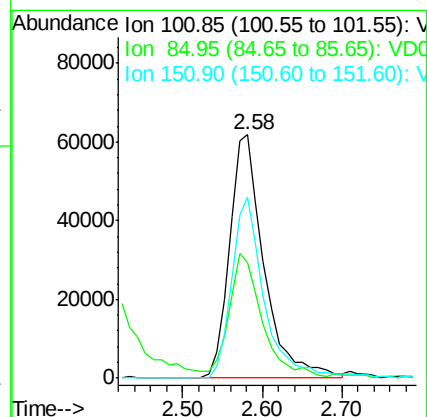
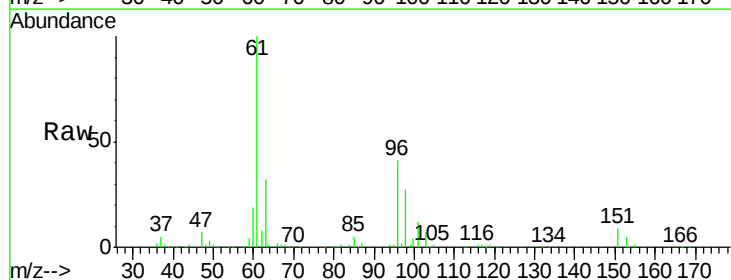
Tgt Ion:101 Resp: 186192

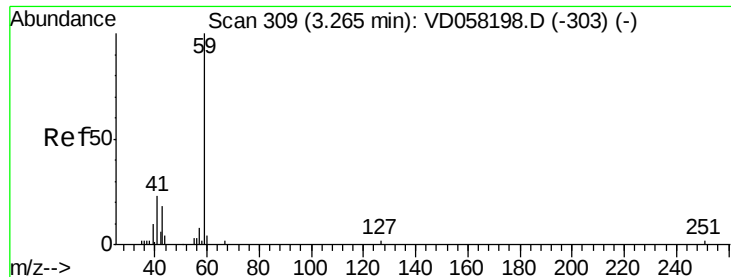
Ion Ratio Lower Upper

101 100

85 47.5 39.0 58.4

151 74.2 61.8 92.8



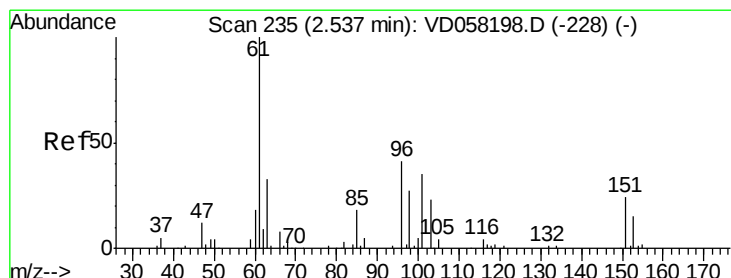
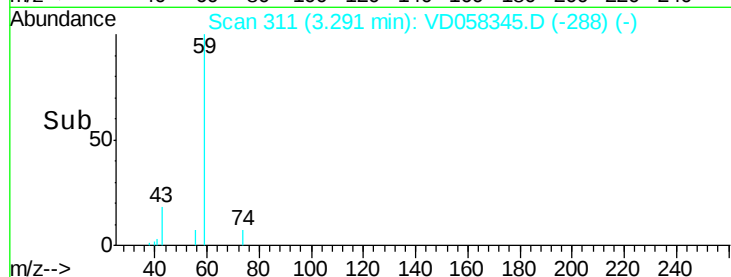
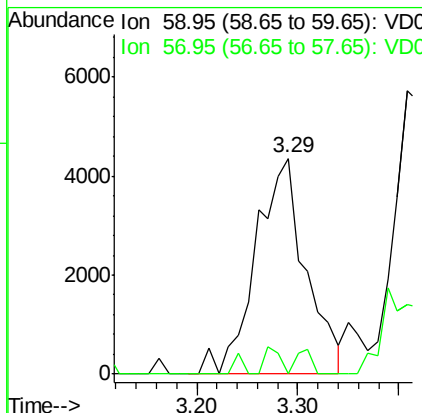
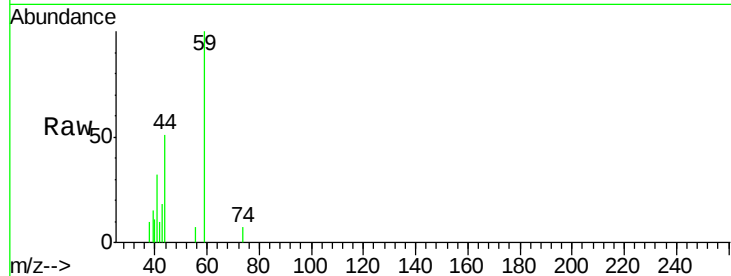


#11

Tert butyl alcohol
 Concen: 50.94 ug/l
 RT: 3.29 min Scan# 311
 Delta R.T. 0.03 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

Instrument :
 MSVOA_D
 ClientSampleId :

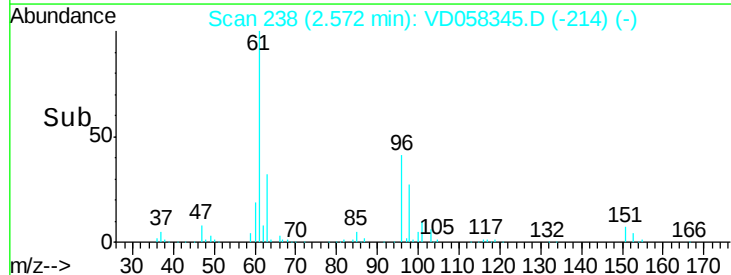
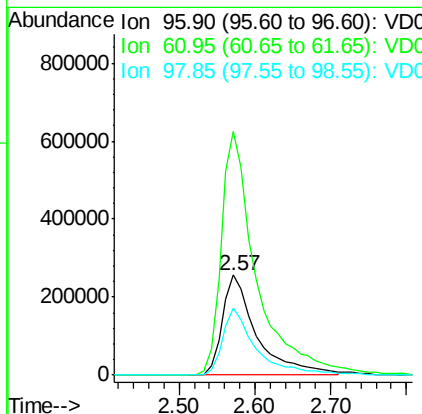
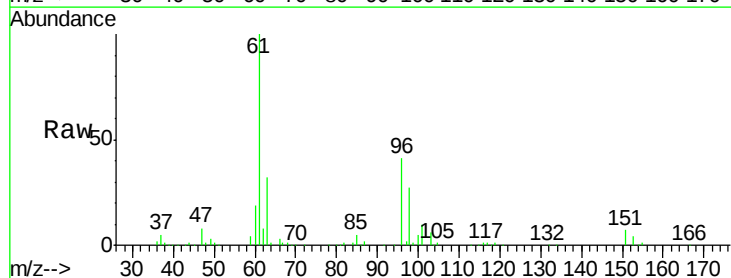
Tot Ion: 59 Resp: 14995
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.4#

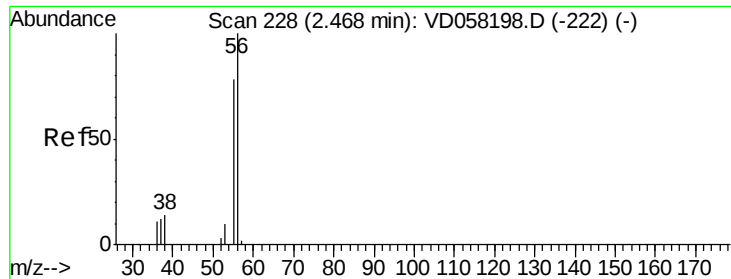


#12

1,1-Dichloroethene
 Concen: 264.86 ug/l
 RT: 2.57 min Scan# 238
 Delta R.T. 0.04 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

Tgt Ion: 96 Resp: 804070
 Ion Ratio Lower Upper
 96 100
 61 244.4 193.9 290.9
 98 67.0 51.7 77.5





#13

Acrolein

Concen: 1.14 ug/l

RT: 2.59 min Scan# 240

Delta R.T. 0.12 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

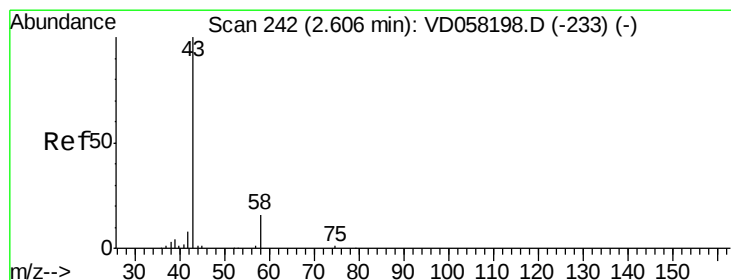
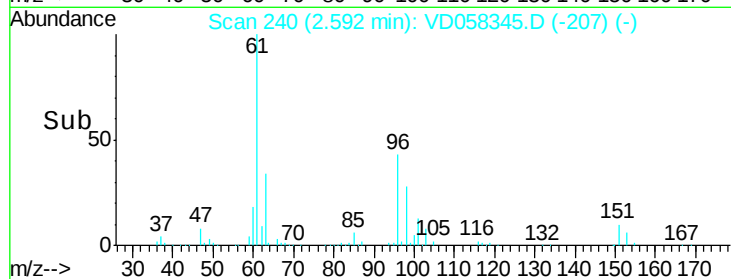
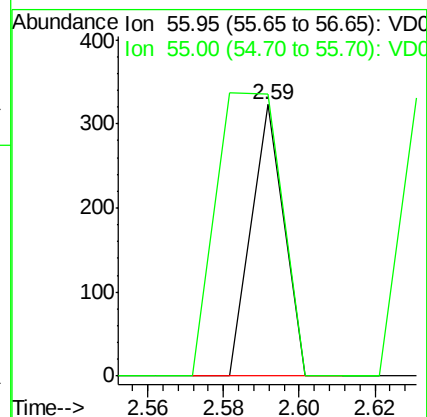
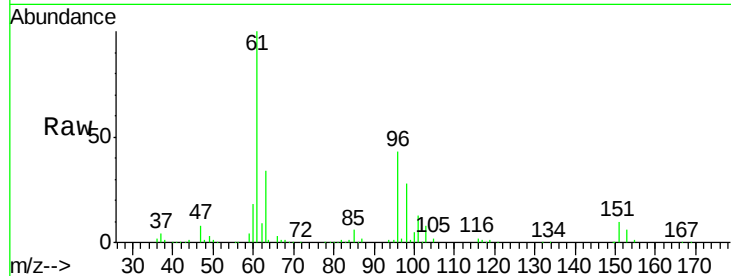
ClientSampleId :

Tot Ion: 56 Resp: 191

Ion Ratio Lower Upper

56 100

55 103.7 62.1 93.1#



#16

Acetone

Concen: 23.93 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.03 min

Lab File: VD058345.D

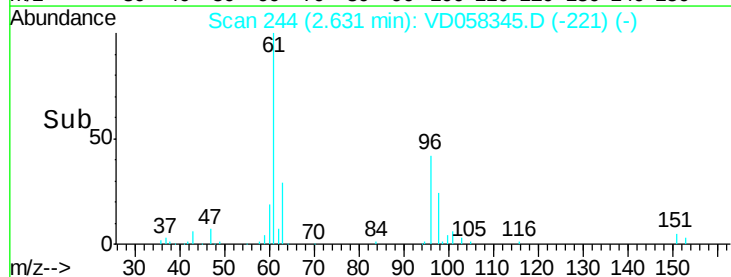
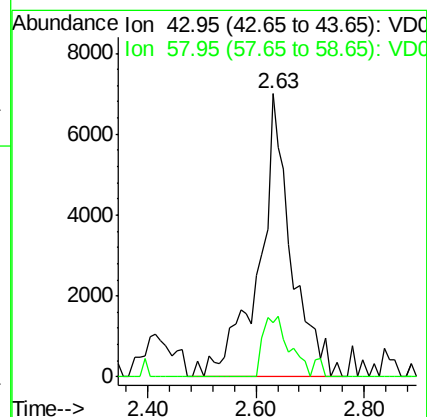
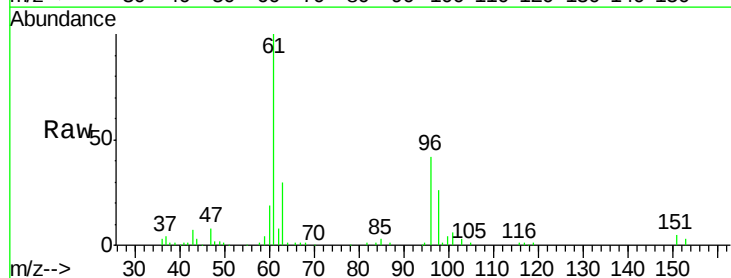
Acq: 23 Jun 2018 17:14

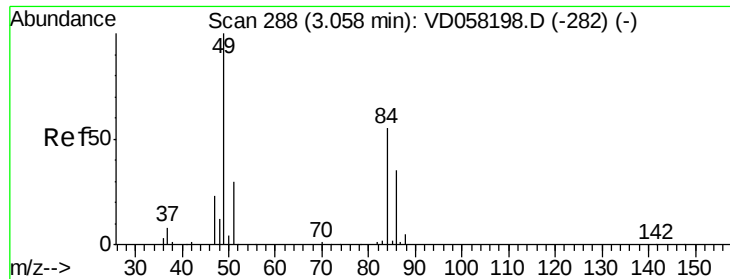
Tgt Ion: 43 Resp: 29214

Ion Ratio Lower Upper

43 100

58 19.3 12.7 19.1#

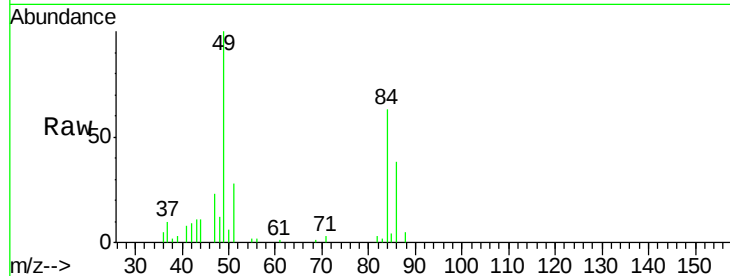




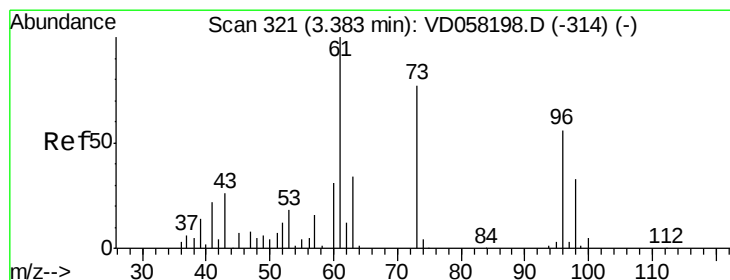
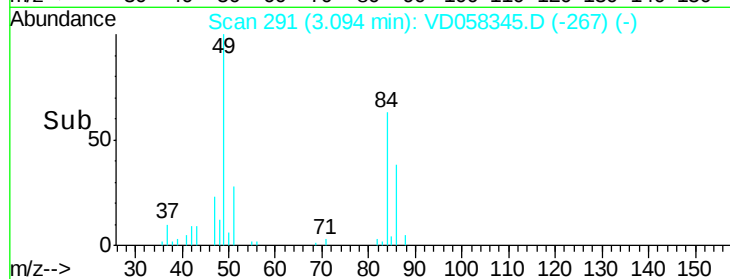
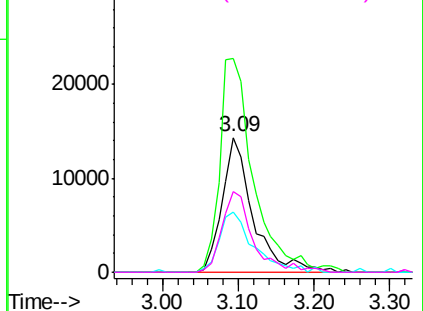
#20
Methylene Chloride
Concen: 8.85 ug/l
RT: 3.09 min Scan# 291
Delta R.T. 0.04 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 40693
Ion Ratio Lower Upper
84 100
49 158.2 145.0 217.6
51 44.5 42.9 64.3
86 59.6 50.1 75.1

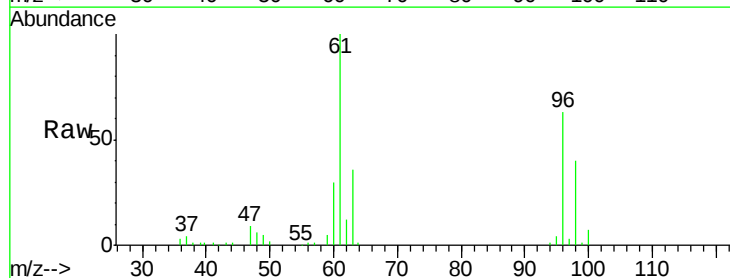


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

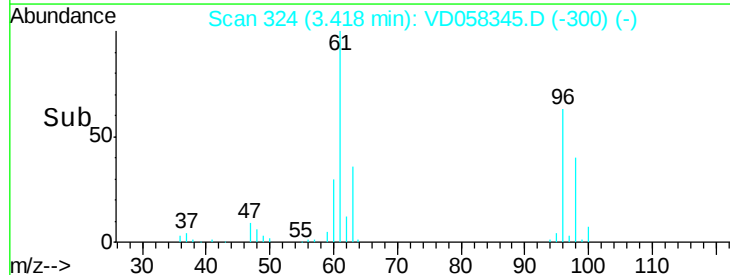
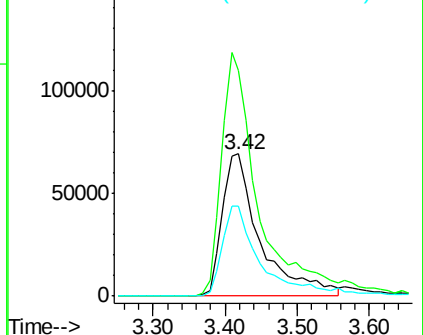


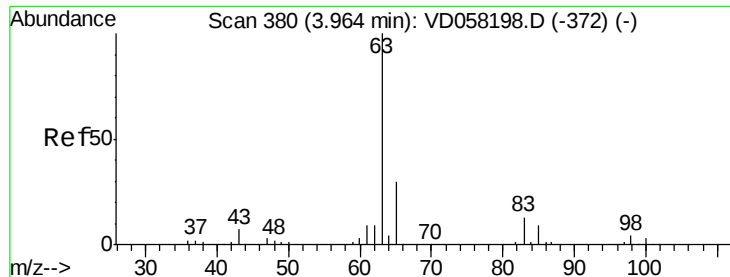
#21
trans-1,2-Dichloroethene
Concen: 76.10 ug/l
RT: 3.42 min Scan# 324
Delta R.T. 0.04 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Tgt Ion: 96 Resp: 252495
Ion Ratio Lower Upper
96 100
61 158.5 143.8 215.6
98 63.6 48.0 72.0



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#24

1,1-Dichloroethane

Concen: 11.01 ug/l

RT: 4.01 min Scan# 384

Delta R.T. 0.05 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :
MSVOA_D
ClientSampled :

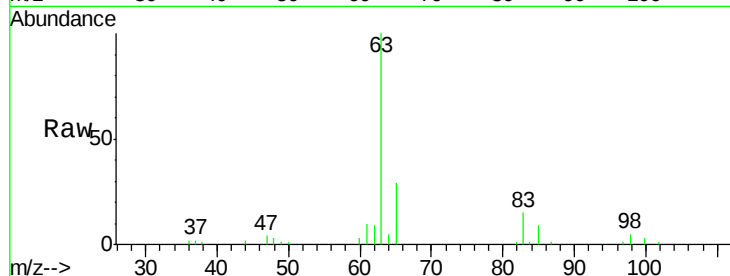
Tot Ion: 63 Resp: 166502

Ion Ratio Lower Upper

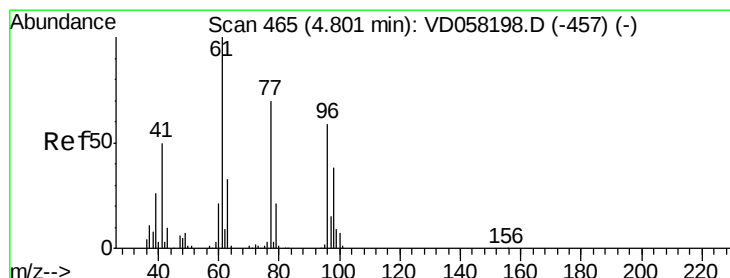
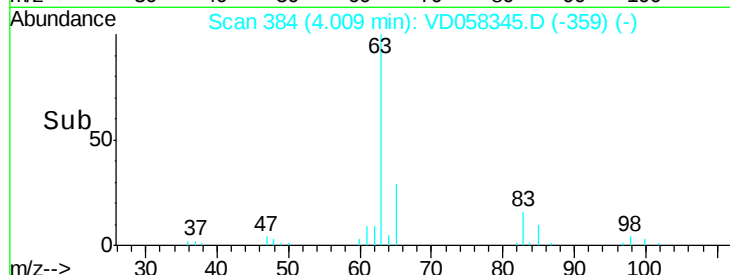
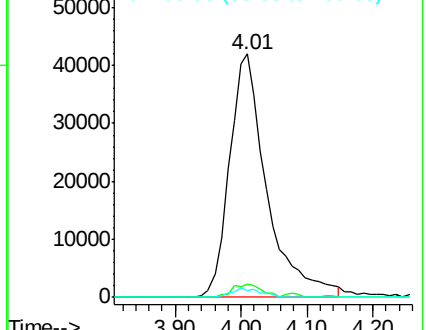
63 100

98 5.5 1.9 5.7

100 2.6 1.3 3.9



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



#27

cis-1,2-Dichloroethene

Concen: 1773.82 ug/l

RT: 4.83 min Scan# 467

Delta R.T. 0.03 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

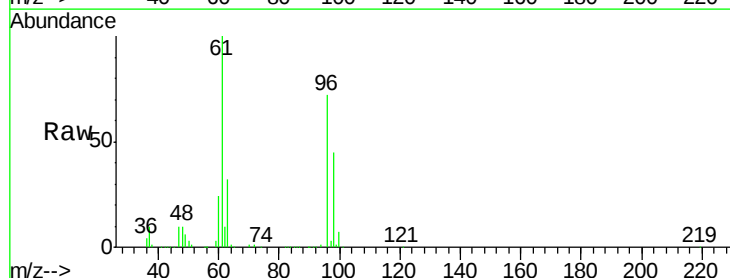
Tgt Ion: 96 Resp: 14707087

Ion Ratio Lower Upper

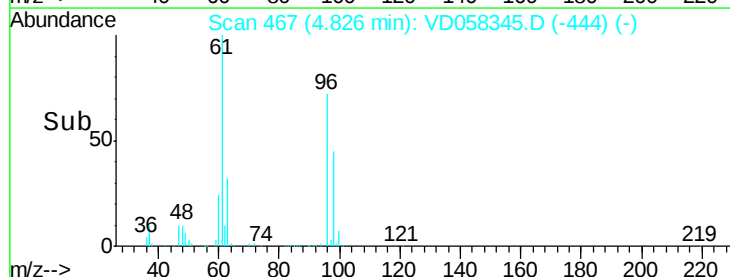
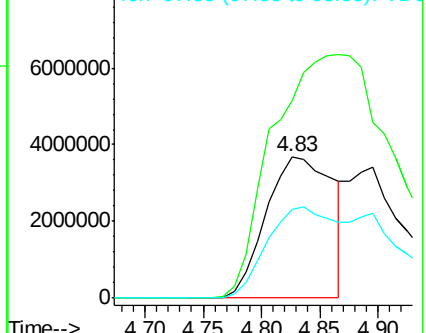
96 100

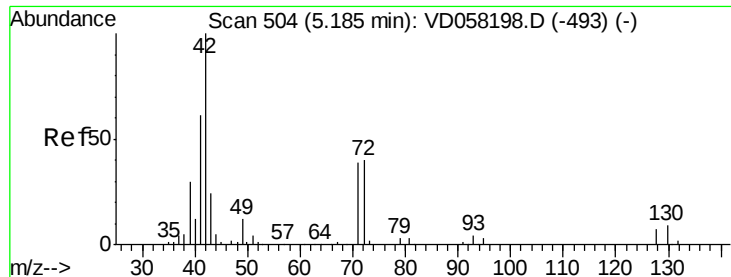
61 139.7 0.0 338.6

98 62.9 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC

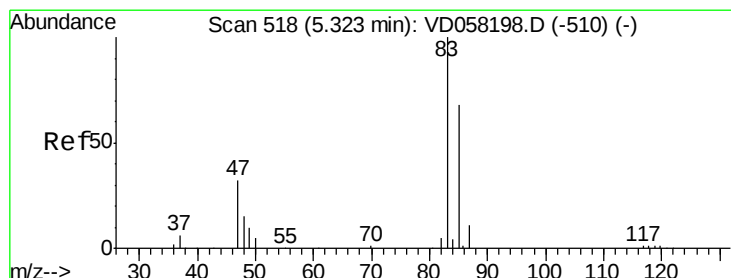
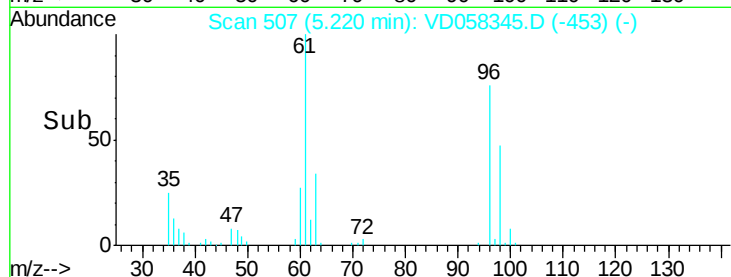
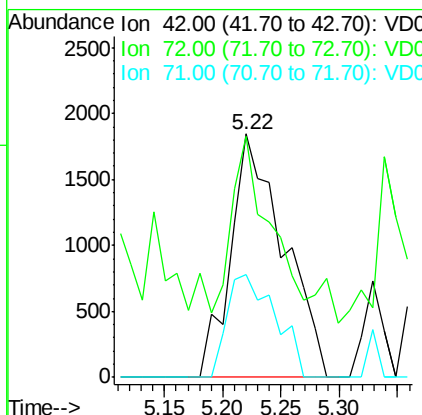
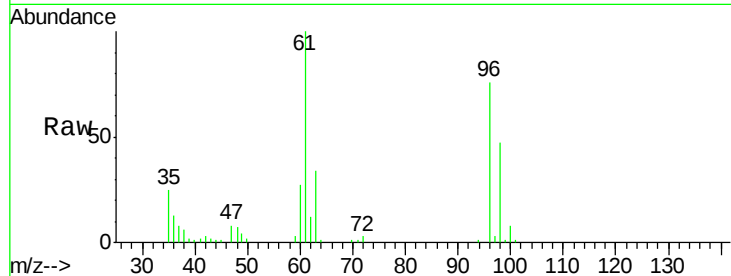




#29
Tetrahydrofuran
Concen: 4.11 ug/l
RT: 5.22 min Scan# 507
Delta R.T. 0.04 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

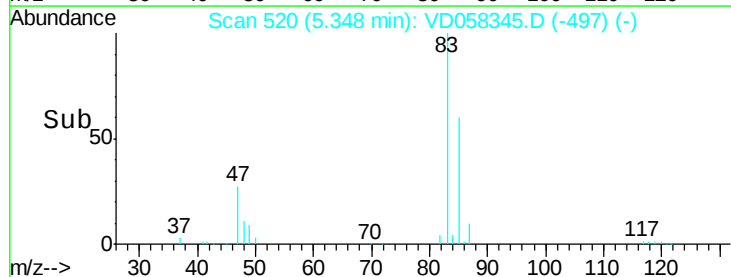
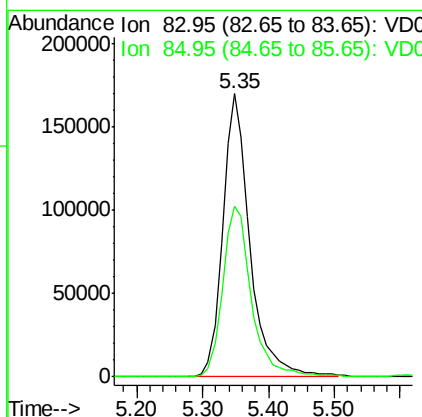
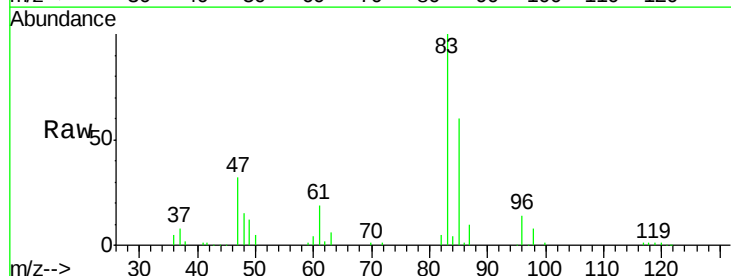
Instrument :
MSVOA_D
ClientSampled :

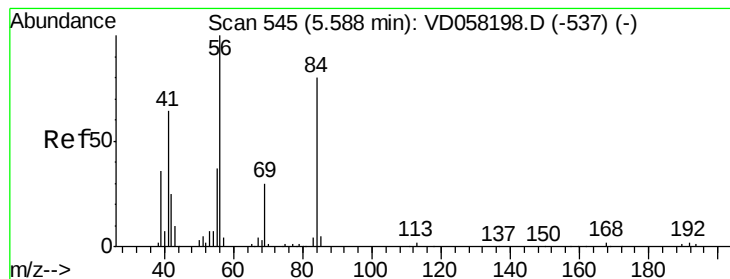
Tot Ion: 42 Resp: 5816
Ion Ratio Lower Upper
42 100
72 0.0 30.2 45.2#
71 38.4 30.1 45.1



#30
Chloroform
Concen: 30.59 ug/l
RT: 5.35 min Scan# 520
Delta R.T. 0.03 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Tgt Ion: 83 Resp: 488277
Ion Ratio Lower Upper
83 100
85 60.1 54.8 82.2





#31

Cyclohexane

Concen: Below Cal

RT: 5.65 min Scan# 551

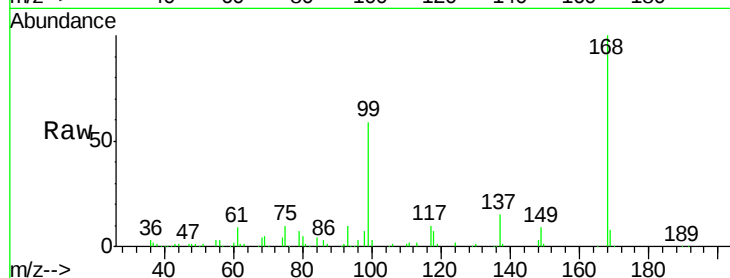
Delta R.T. 0.07 min

Lab File: VD058345.D

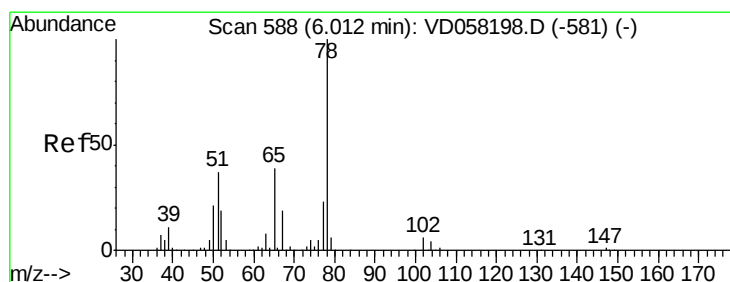
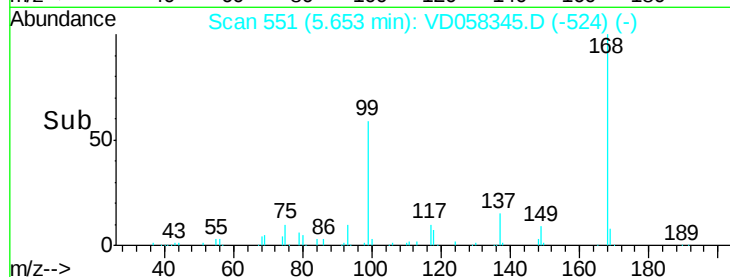
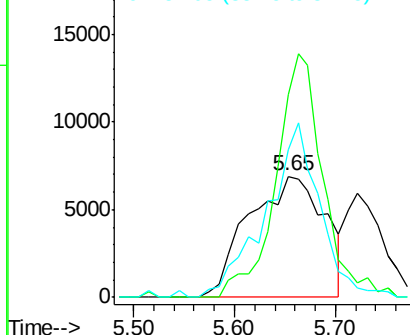
Acq: 23 Jun 2018 17:14

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	56	Resp:	36165
Ion	Ratio	Lower	Upper
56	100		
69	167.2	23.6	35.4#
84	122.0	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: Below ug/l

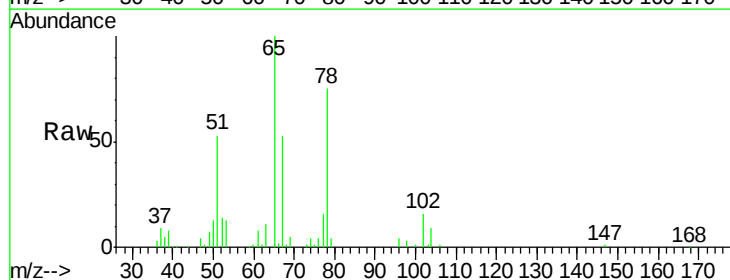
RT: 6.05 min Scan# 591

Delta R.T. 0.04 min

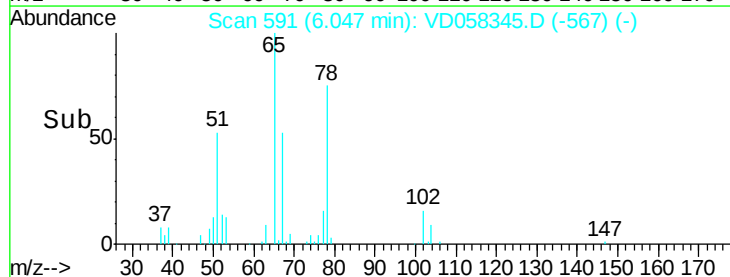
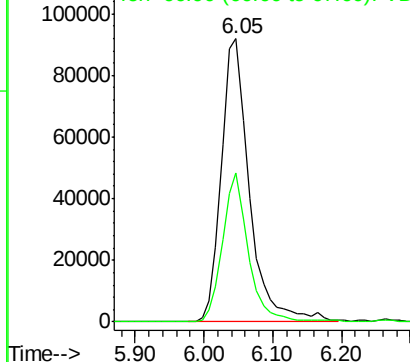
Lab File: VD058345.D

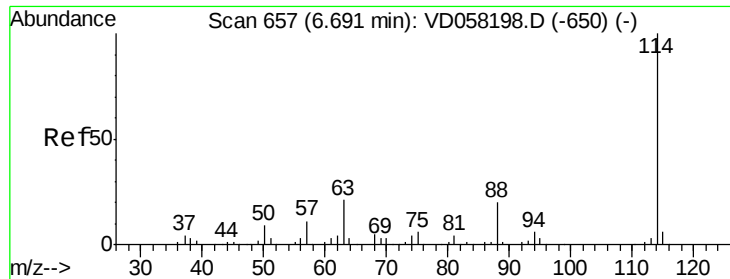
Acq: 23 Jun 2018 17:14

Tgt Ion:	65	Resp:	260875
Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	97.8



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

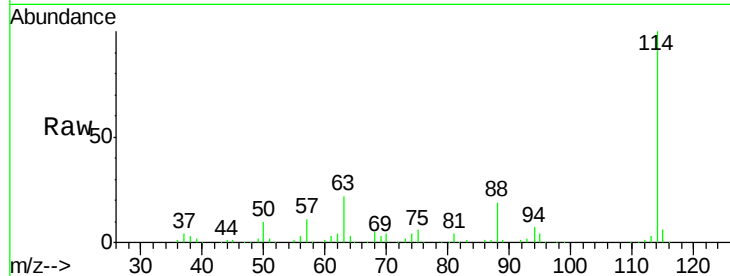




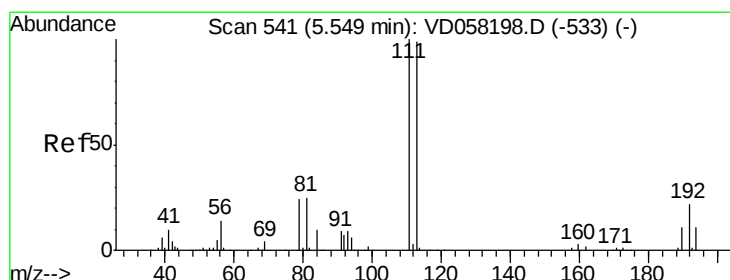
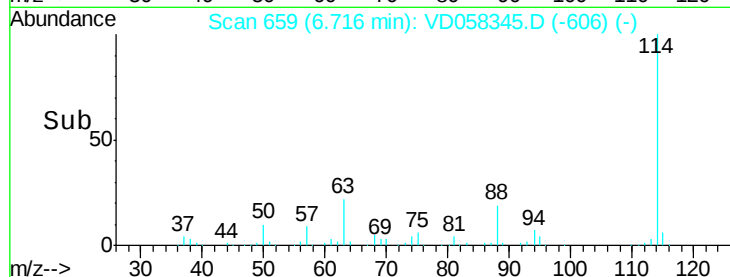
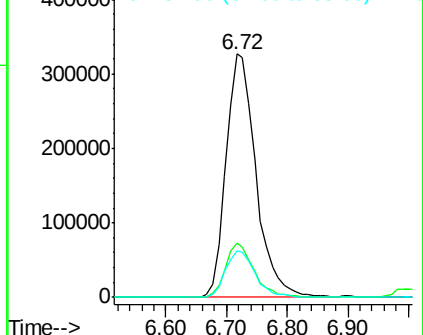
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.72 min Scan# 659
 Delta R.T. 0.03 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 1117425
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 42.6
 88 19.3 0.0 40.6

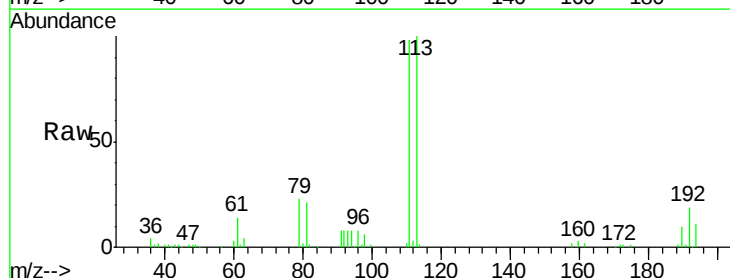


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

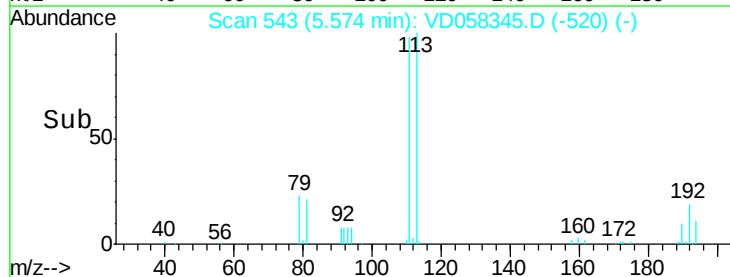
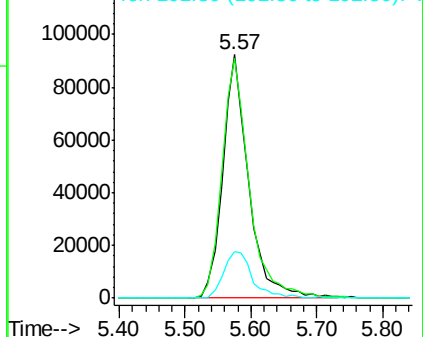


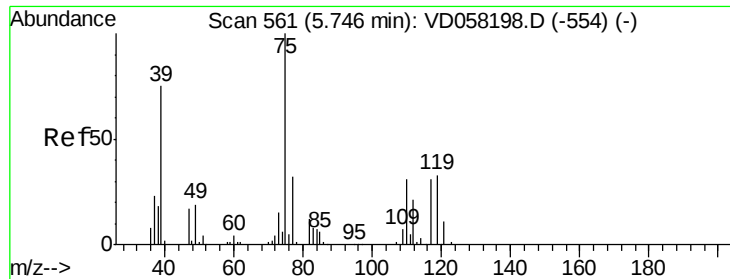
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.57 min Scan# 543
 Delta R.T. 0.03 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

Tgt Ion:113 Resp: 253630
 Ion Ratio Lower Upper
 113 100
 111 98.4 80.6 121.0
 192 19.3 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: 6.39 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.08 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :
MSVOA_D
ClientSampled :

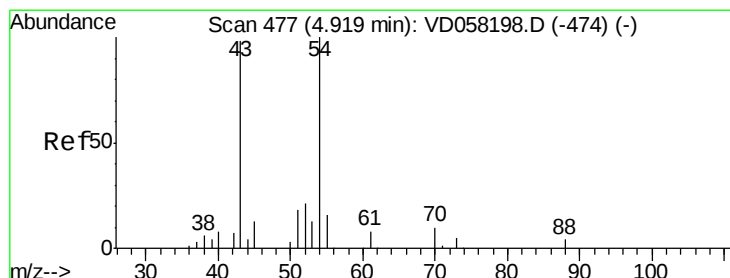
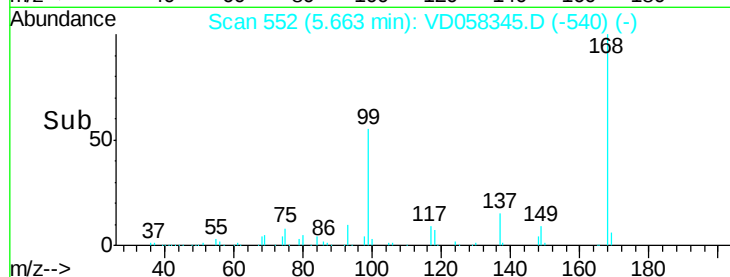
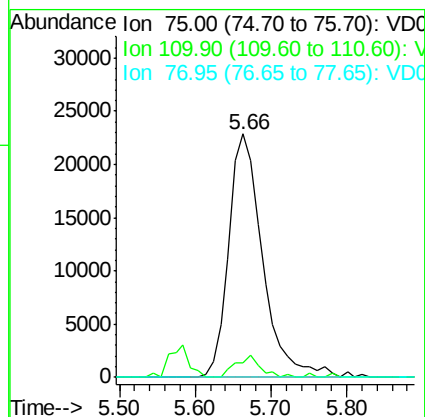
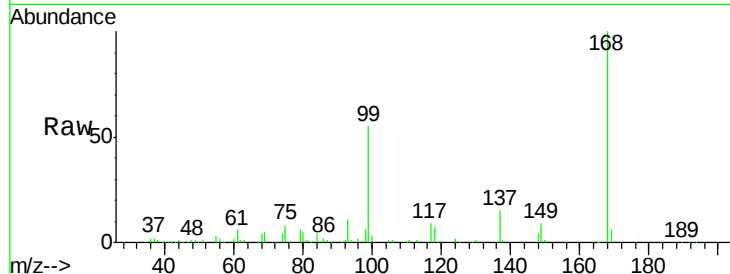
Tot Ion: 75 Resp: 70667

Ion Ratio Lower Upper

75 100

110 5.7 15.4 46.4#

77 0.0 25.4 38.2#



#37

Ethyl Acetate

Concen: 1.22 ug/l

RT: 4.90 min Scan# 475

Delta R.T. -0.01 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

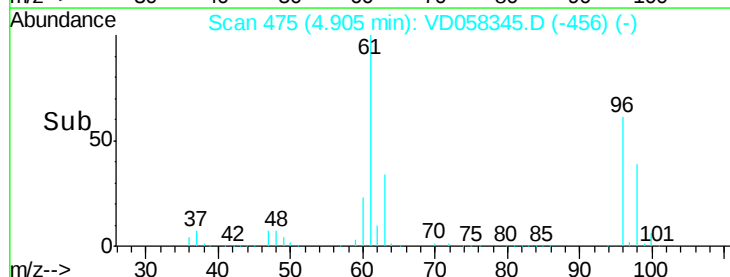
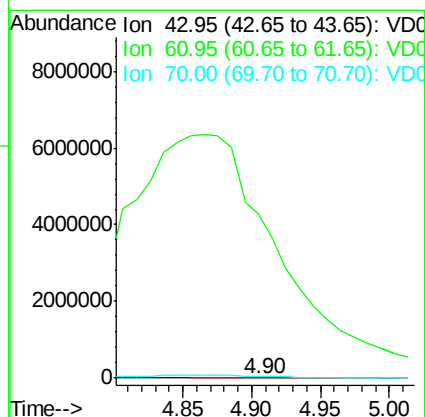
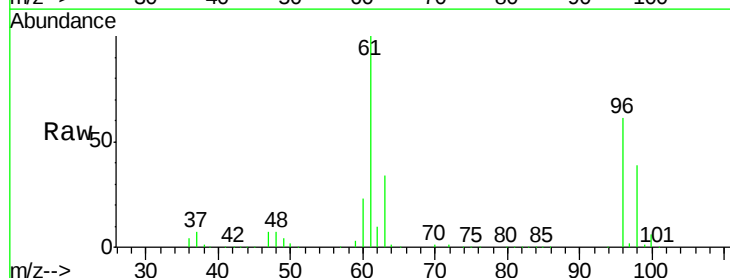
Tgt Ion: 43 Resp: 7708

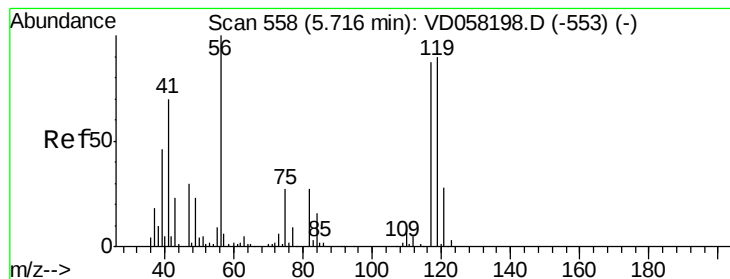
Ion Ratio Lower Upper

43 100

61 152431.8 10.3 15.5#

70 1855.8 5.7 8.5#





#38

Carbon Tetrachloride

Concen: 6.76 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.05 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

ClientSampleId :

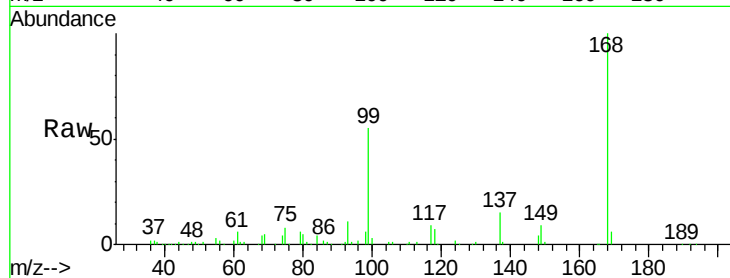
Tot Ion:117 Resp: 74279

Ion Ratio Lower Upper

117 100

119 4.6 78.8 118.2#

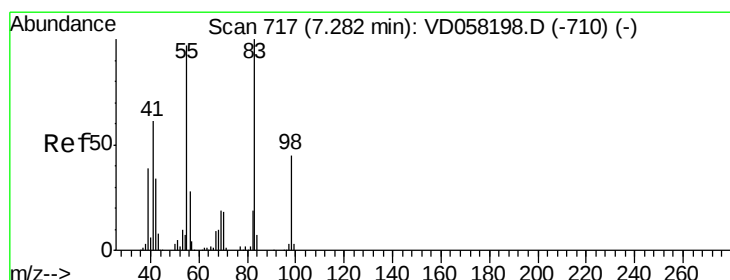
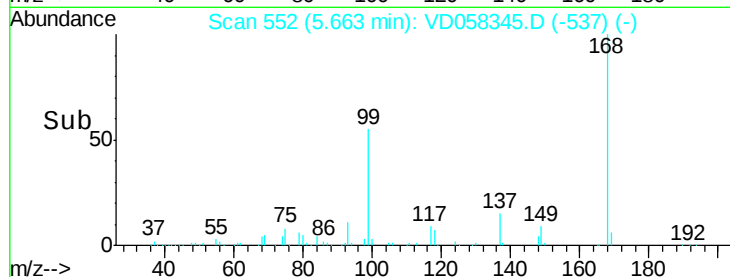
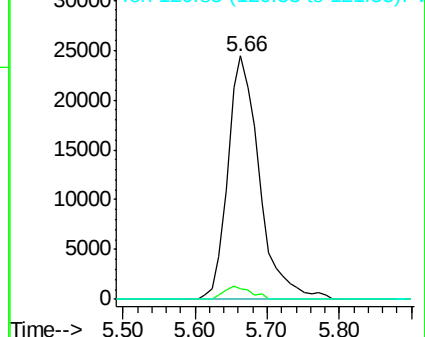
121 0.0 25.0 37.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#39

Methylcyclohexane

Concen: 4.08 ug/l

RT: 7.33 min Scan# 721

Delta R.T. 0.05 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

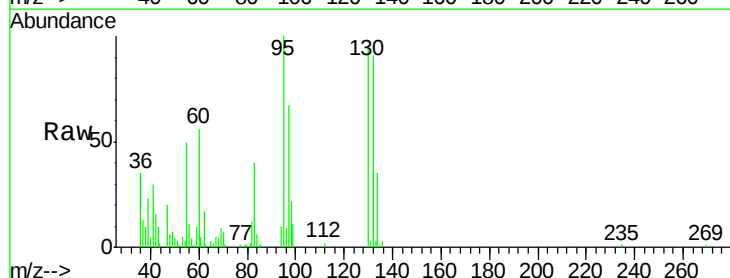
Tgt Ion: 83 Resp: 43932

Ion Ratio Lower Upper

83 100

55 125.3 77.4 116.2#

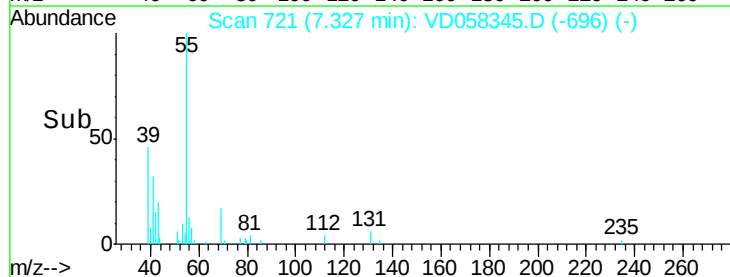
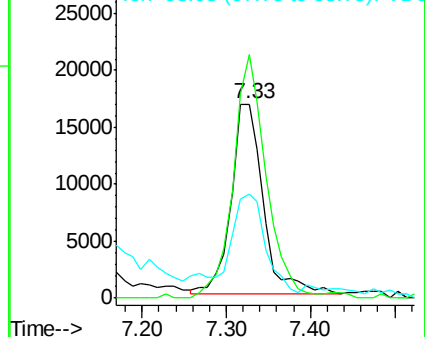
98 53.6 35.9 53.9

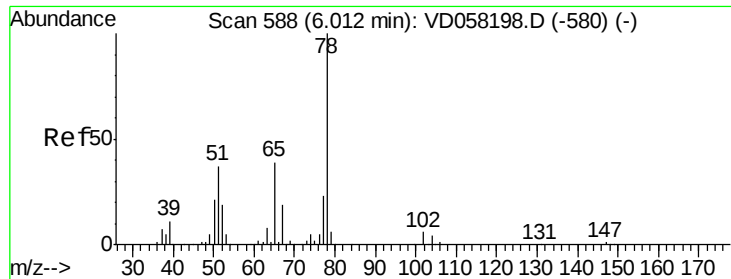


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC





#40

Benzene

Concen: 7.85 ug/l

RT: 6.04 min Scan# 590

Delta R.T. 0.03 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

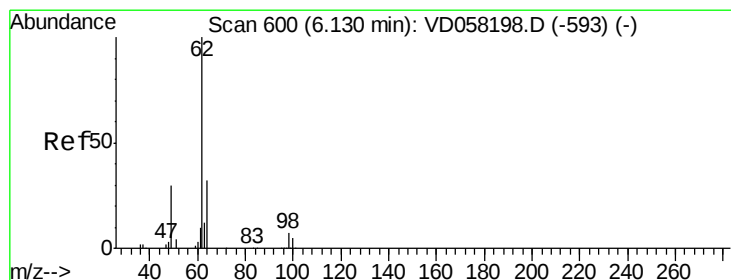
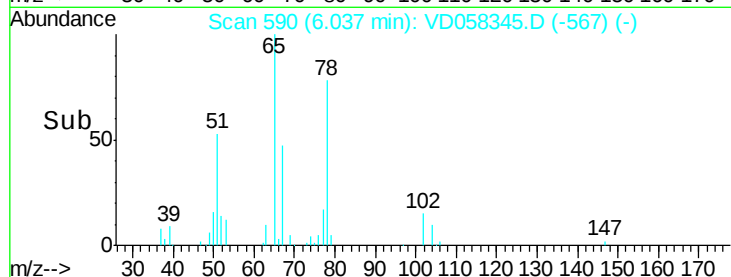
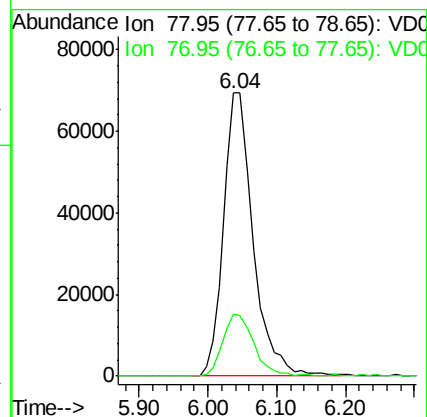
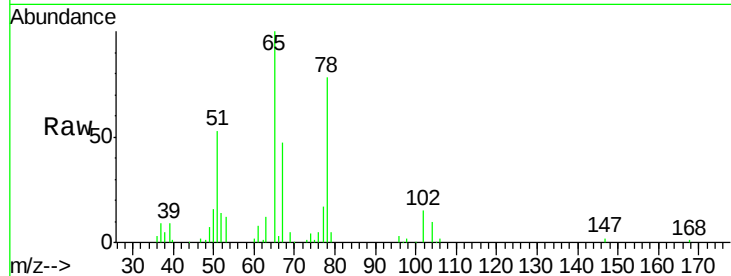
ClientSampleId :

Tot Ion: 78 Resp: 206738

Ion Ratio Lower Upper

78 100

77 21.8 18.5 27.7



#42

1,2-Dichloroethane

Concen: 13.61 ug/l

RT: 6.16 min Scan# 602

Delta R.T. 0.03 min

Lab File: VD058345.D

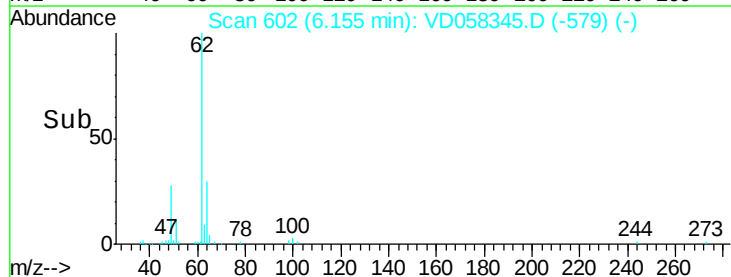
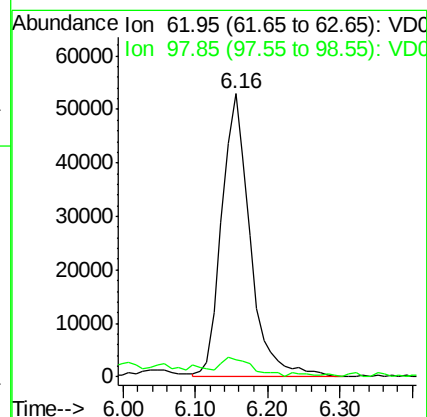
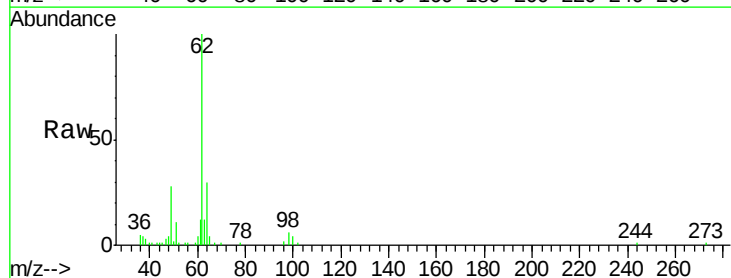
Acq: 23 Jun 2018 17:14

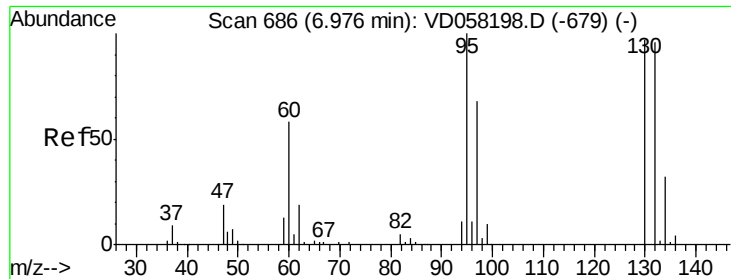
Tgt Ion: 62 Resp: 144519

Ion Ratio Lower Upper

62 100

98 6.2 0.0 13.2





#44

Trichloroethene

Concen: 800.76 ug/l

RT: 7.00 min Scan# 688

Delta R.T. 0.03 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

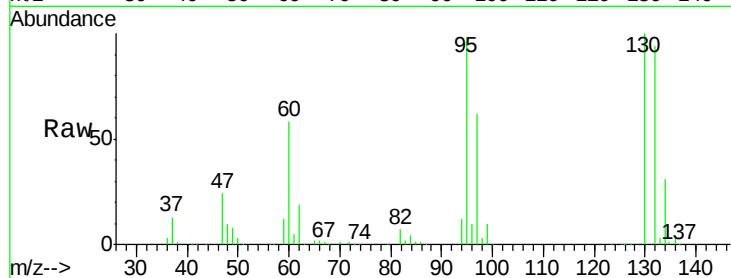
ClientSampleId :

Tot Ion:130 Resp: 6331680

Ion Ratio Lower Upper

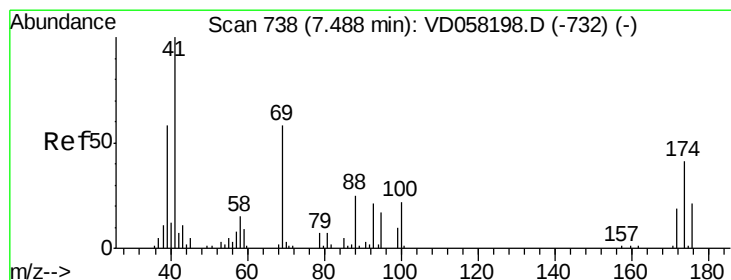
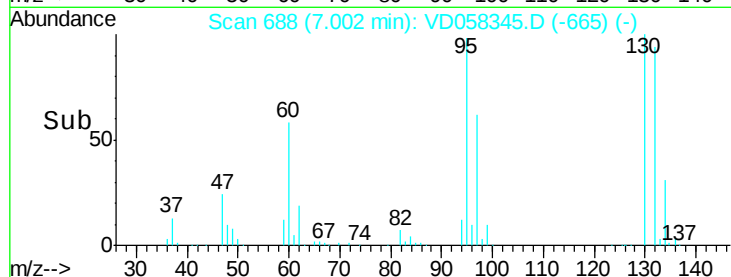
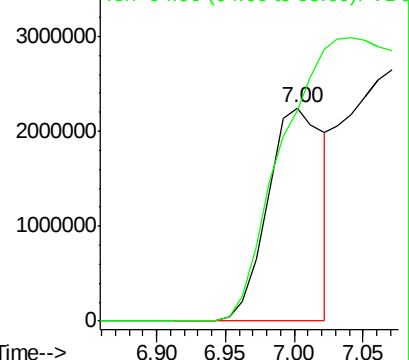
130 100

95 98.4 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#49

1,4-Dioxane

Concen: 181.04 ug/l

RT: 7.51 min Scan# 740

Delta R.T. 0.03 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

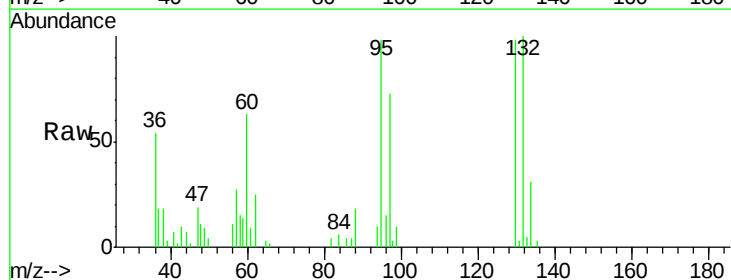
Tgt Ion: 88 Resp: 8340

Ion Ratio Lower Upper

88 100

43 54.7 34.2 51.2#

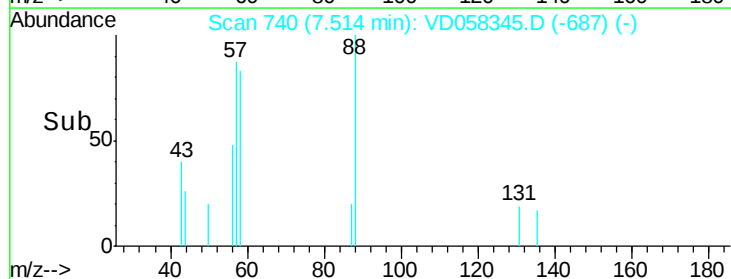
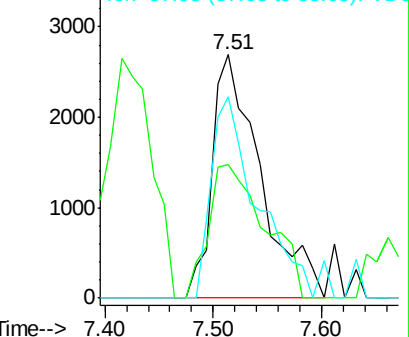
58 82.7 47.9 71.9#

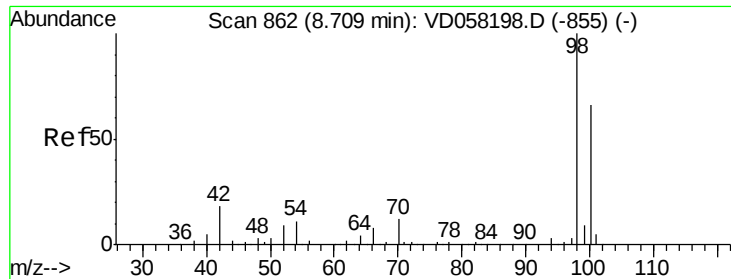


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

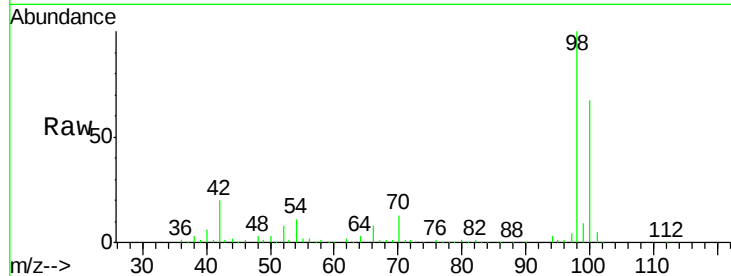




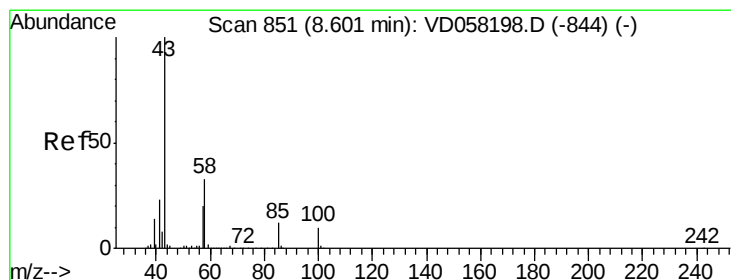
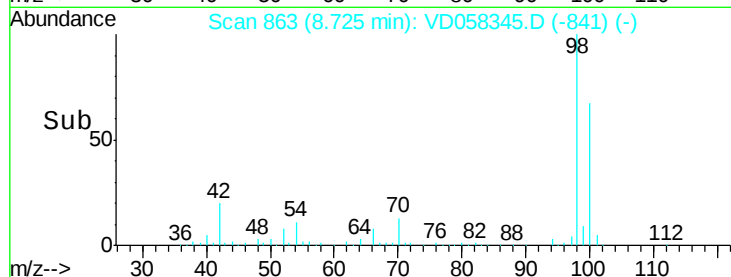
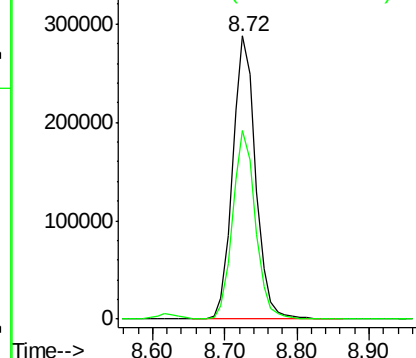
#50
Toluene-d8
Concen: 181.04 ug/l
RT: 8.72 min Scan# 863
Delta R.T. 0.02 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 636830
Ion Ratio Lower Upper
98 100
100 66.8 53.6 80.4

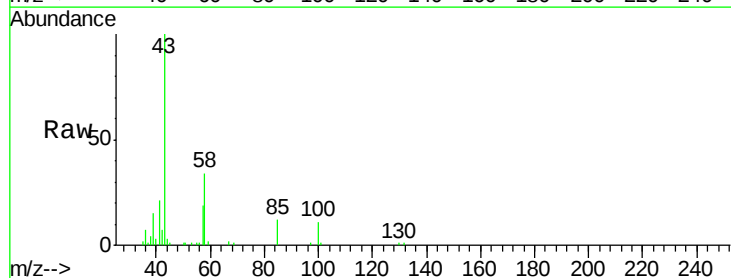


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

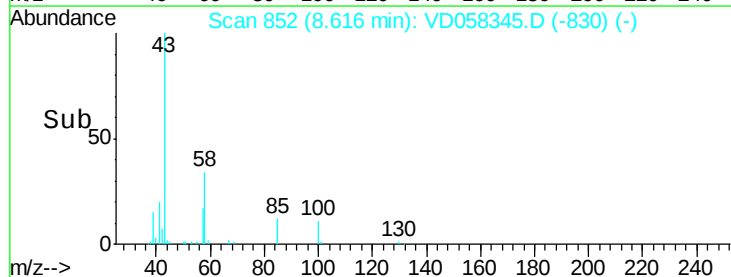
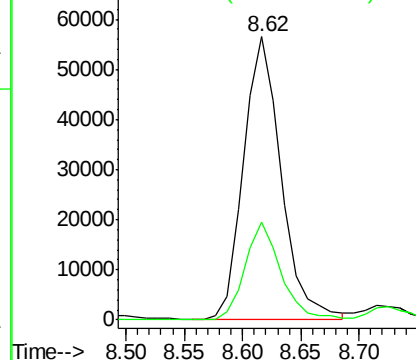


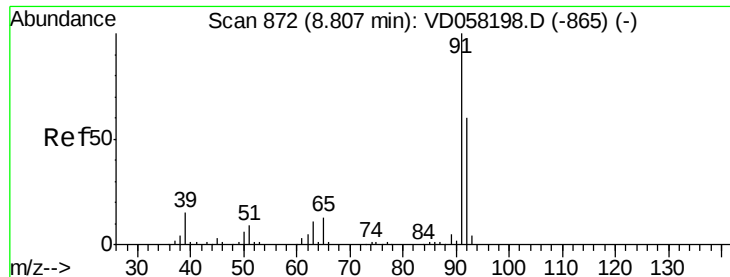
#51
4-Methyl-2-Pentanone
Concen: 23.14 ug/l
RT: 8.62 min Scan# 852
Delta R.T. 0.02 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Tgt Ion: 43 Resp: 126747
Ion Ratio Lower Upper
43 100
58 34.4 26.7 40.1



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





#52

Toluene

Concen: 19.69 ug/l

RT: 8.82 min Scan# 873

Delta R.T. 0.02 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

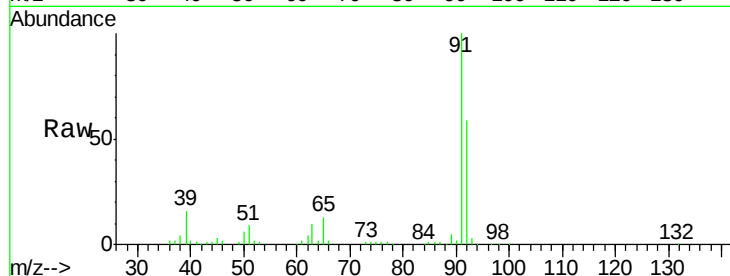
ClientSampleId :

Tot Ion: 92 Resp: 295196

Ion Ratio Lower Upper

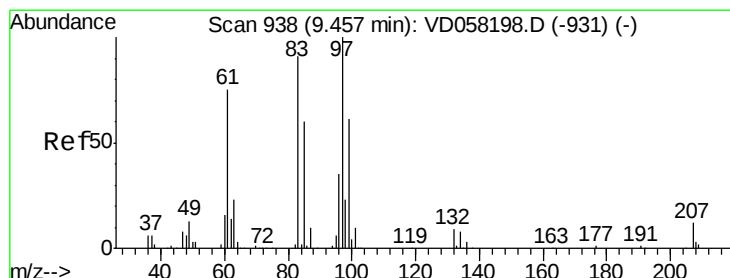
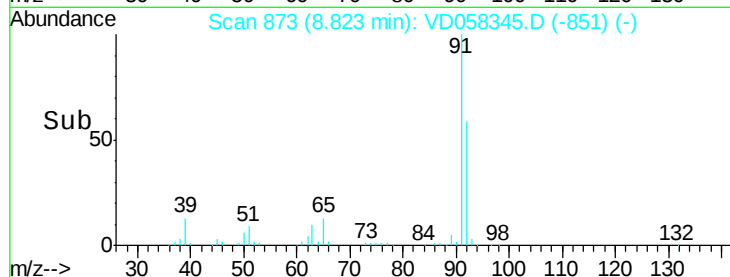
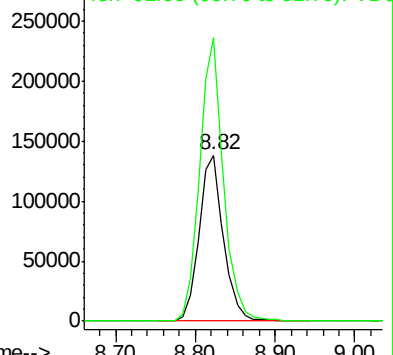
92 100

91 170.6 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 33.19 ug/l

RT: 9.47 min Scan# 939

Delta R.T. 0.02 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Tgt Ion: 97 Resp: 176067

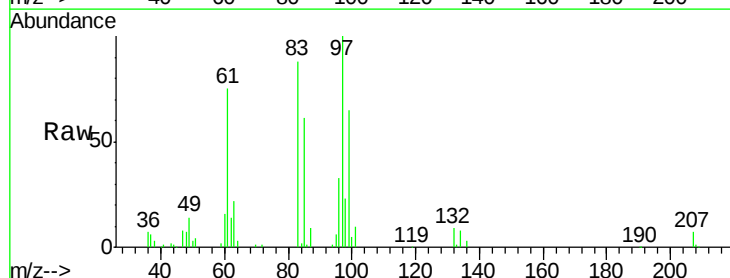
Ion Ratio Lower Upper

97 100

83 88.2 72.9 109.3

85 60.9 48.2 72.4

99 65.0 48.9 73.3

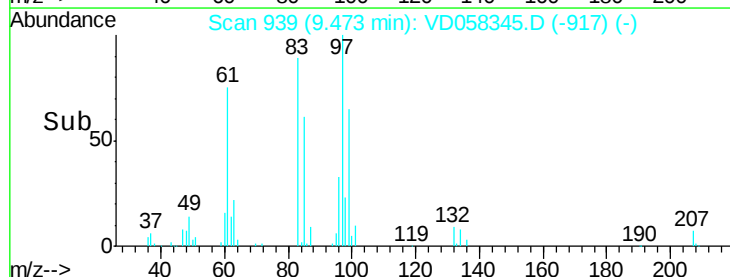
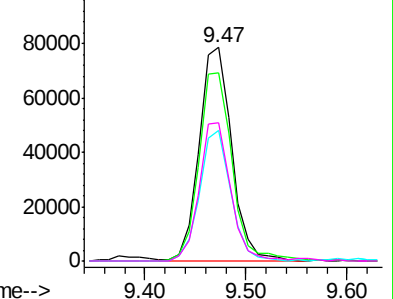


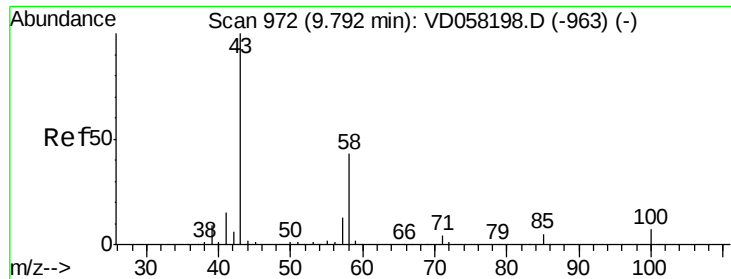
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC

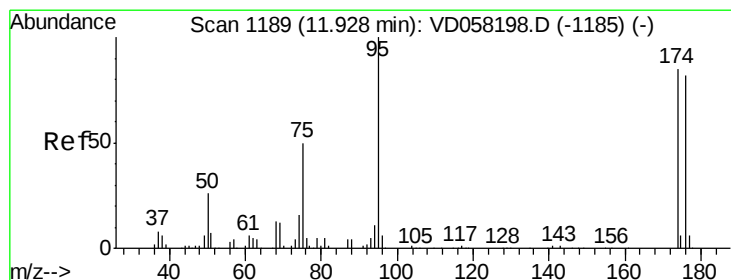
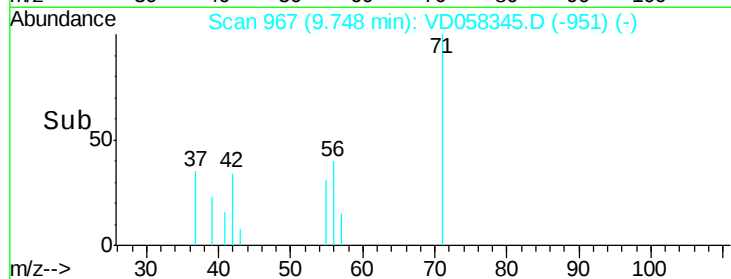
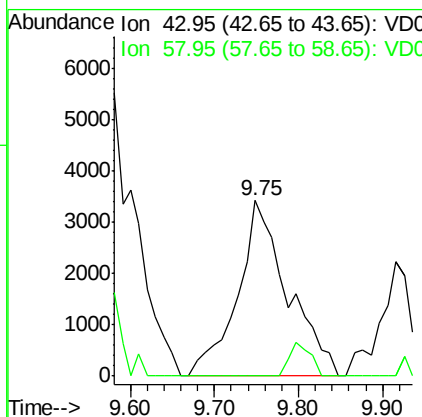
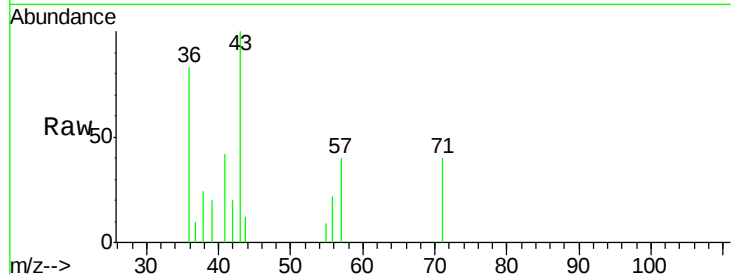




#59
2-Hexanone
Concen: 3.61 ug/l
RT: 9.75 min Scan# 967
Delta R.T. -0.04 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

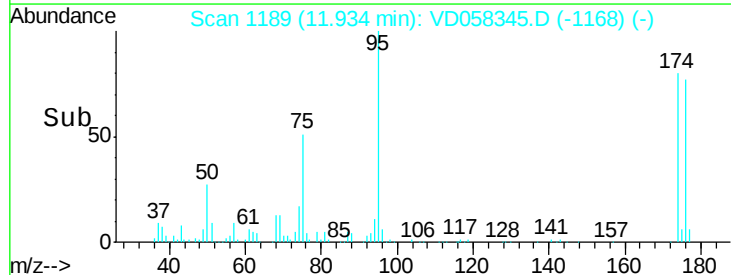
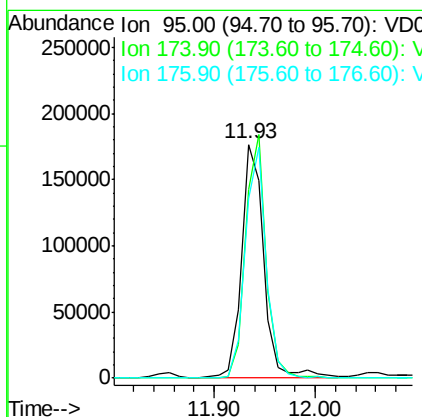
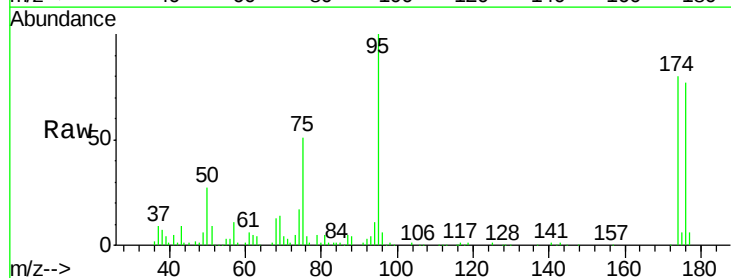
Instrument :
MSVOA_D
ClientSampled :

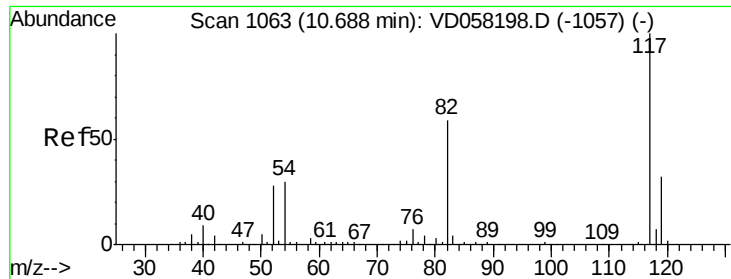
Tot Ion: 43 Resp: 14288
Ion Ratio Lower Upper
43 100
58 0.0 21.7 65.1#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.01 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Tgt Ion: 95 Resp: 271988
Ion Ratio Lower Upper
95 100
174 80.4 0.0 170.2
176 76.8 0.0 164.6

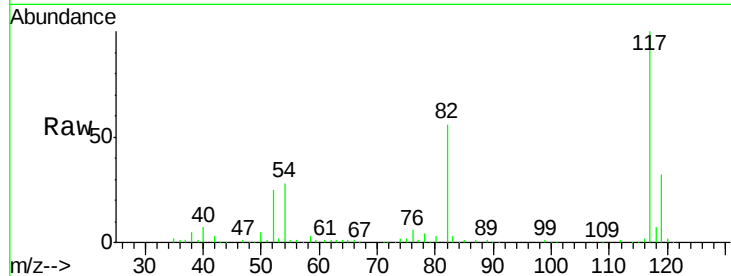




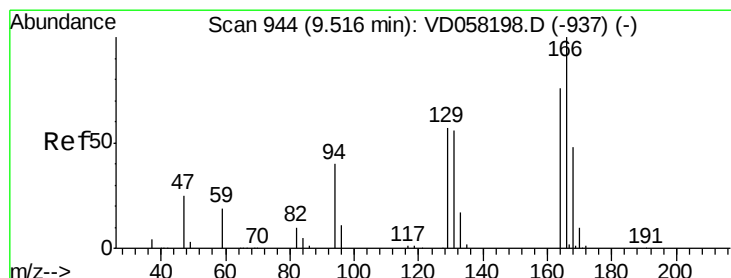
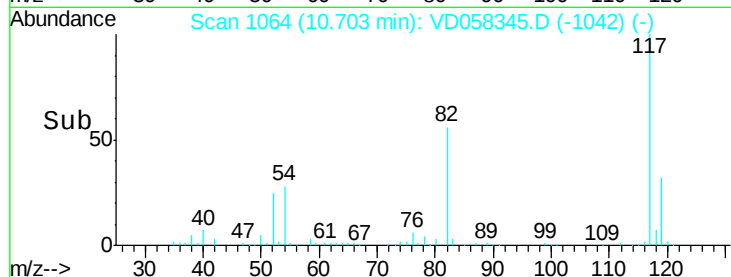
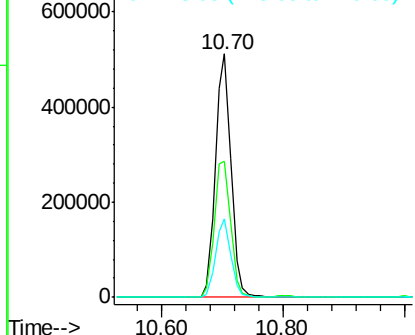
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.02 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 918725
Ion Ratio Lower Upper
117 100
82 55.9 47.0 70.6
119 32.4 25.3 37.9



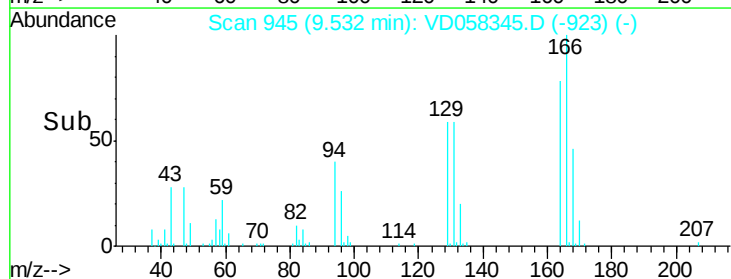
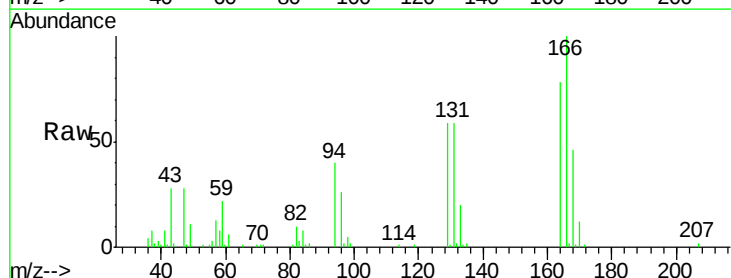
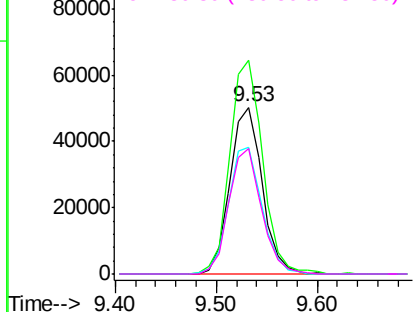
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

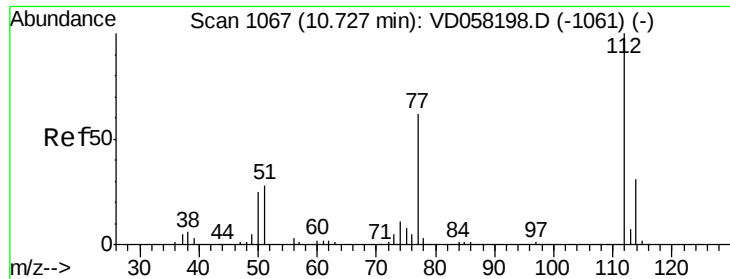


#64
Tetrachloroethene
Concen: 14.37 ug/l
RT: 9.53 min Scan# 945
Delta R.T. 0.02 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Tgt Ion:164 Resp: 111118
Ion Ratio Lower Upper
164 100
166 127.9 105.4 158.0
129 75.9 59.6 89.4
131 75.4 59.4 89.2

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 21.85 ug/l

RT: 10.73 min Scan# 1067

Delta R.T. 0.01 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

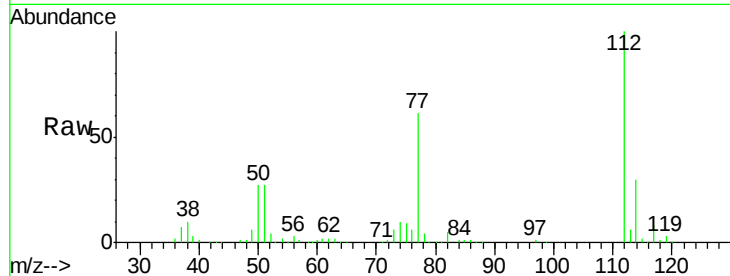
ClientSampleId :

Tot Ion:112 Resp: 375548

Ion Ratio Lower Upper

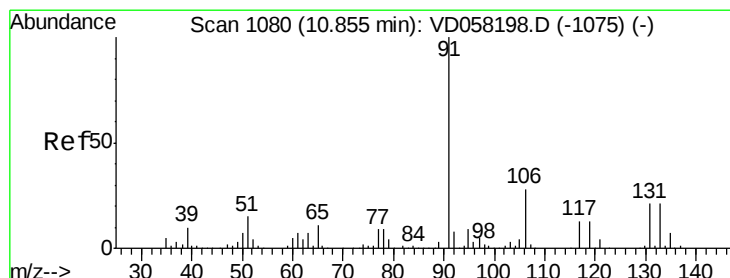
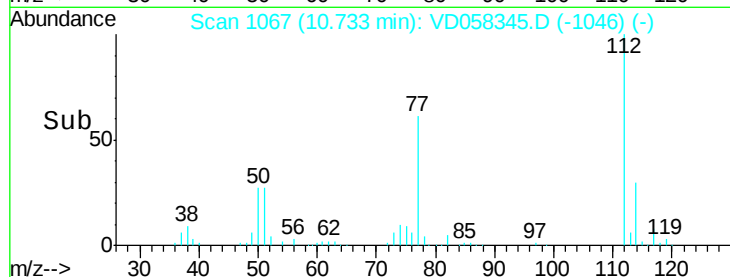
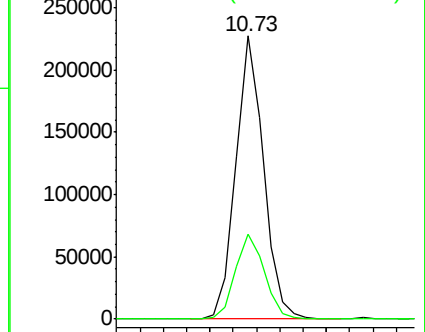
112 100

114 30.0 25.0 37.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#67

Ethyl Benzene

Concen: 6.32 ug/l

RT: 10.87 min Scan# 1081

Delta R.T. 0.02 min

Lab File: VD058345.D

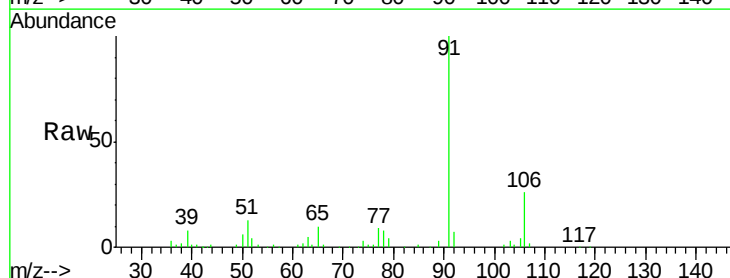
Acq: 23 Jun 2018 17:14

Tgt Ion: 91 Resp: 191663

Ion Ratio Lower Upper

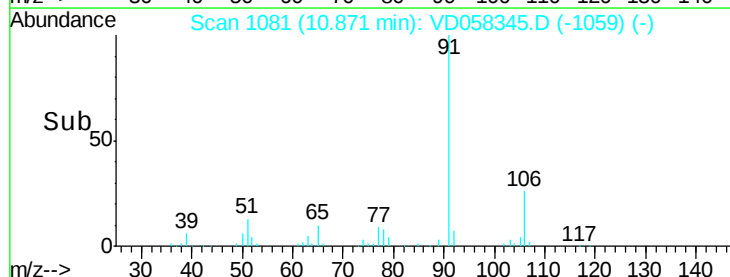
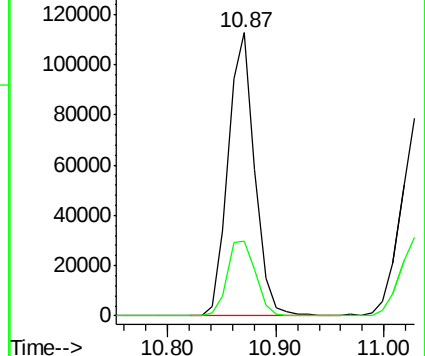
91 100

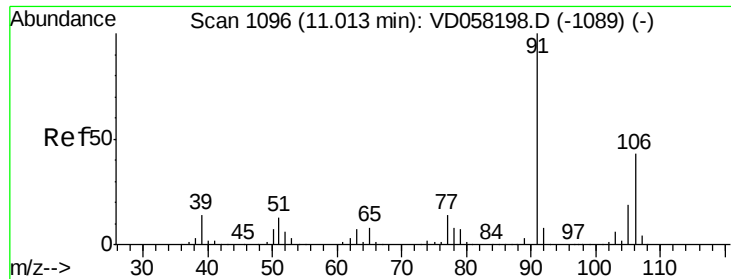
106 26.3 22.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): V

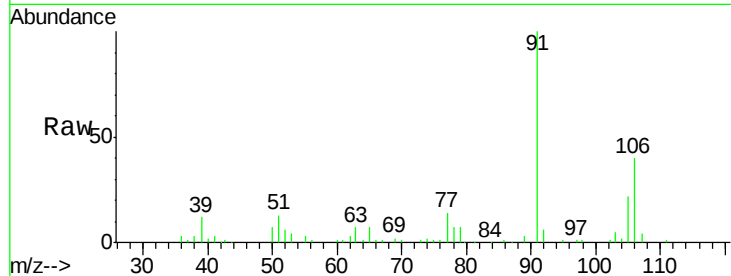




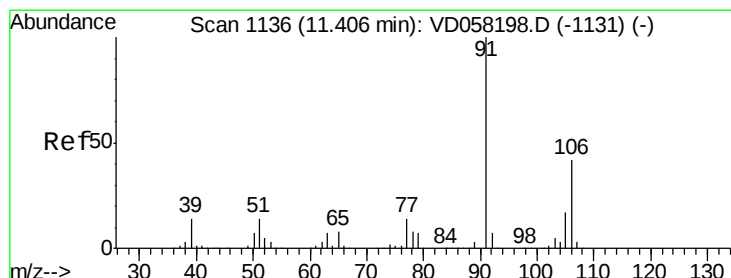
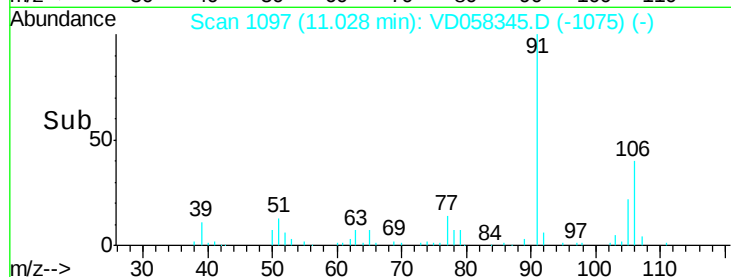
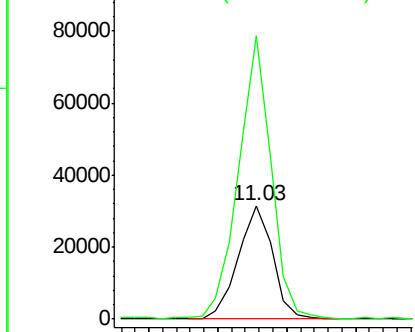
#68
m/p-Xylenes
Concen: 5.42 ug/l
RT: 11.03 min Scan# 1097
Delta R.T. 0.02 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 54886
Ion Ratio Lower Upper
106 100
91 250.2 185.0 277.6

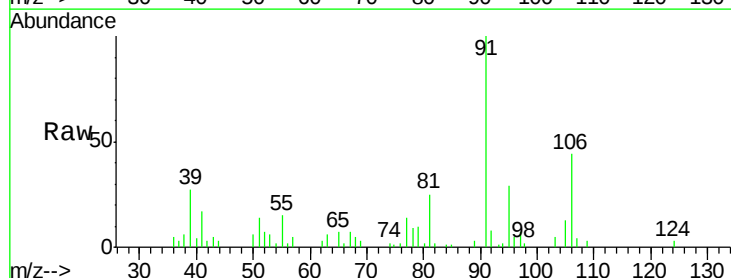


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

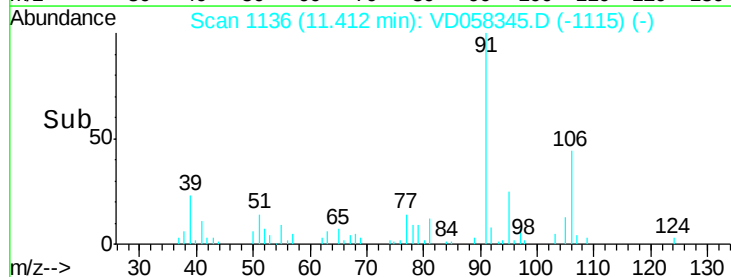
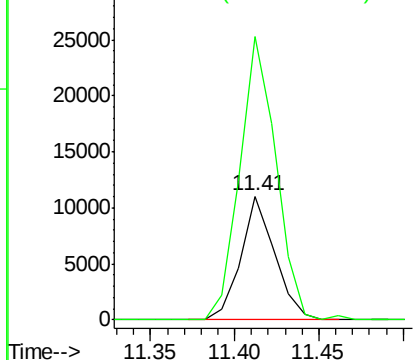


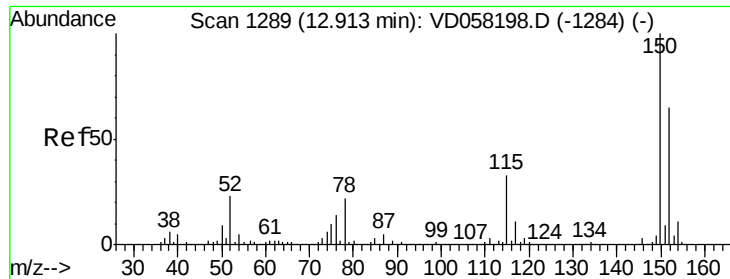
#69
o-Xylene
Concen: 1.60 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.01 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Tgt Ion:106 Resp: 15476
Ion Ratio Lower Upper
106 100
91 228.9 120.2 360.6



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.92 min Scan# 1289

Delta R.T. 0.01 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

ClientSampleId :

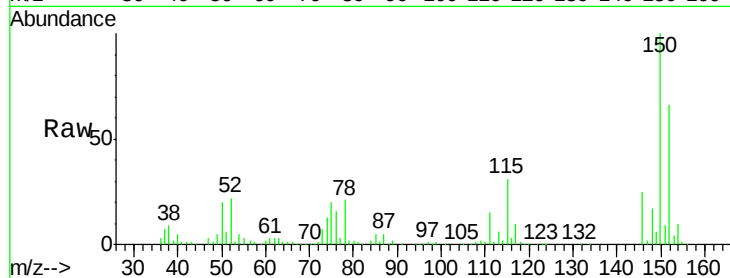
Tot Ion:152 Resp: 455662

Ion Ratio Lower Upper

152 100

115 47.2 25.1 75.3

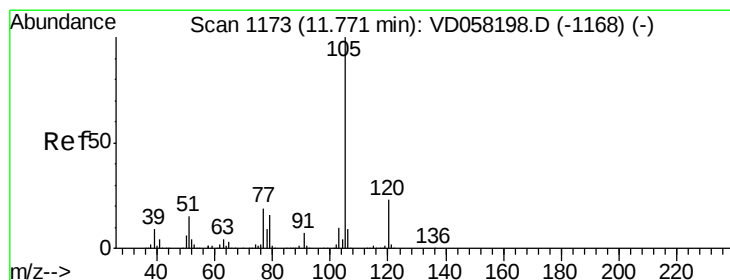
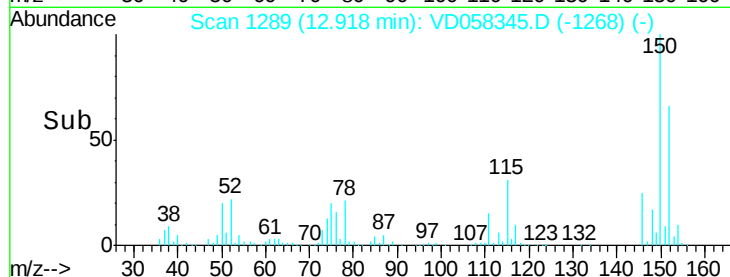
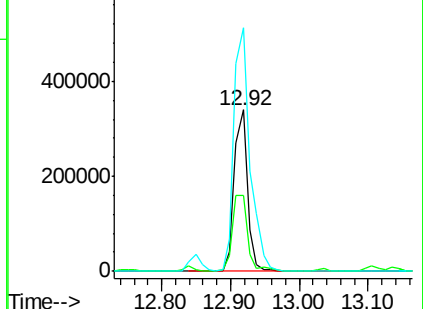
150 150.8 0.0 308.8



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



#73

Isopropylbenzene

Concen: 3.92 ug/l

RT: 11.79 min Scan# 1174

Delta R.T. 0.02 min

Lab File: VD058345.D

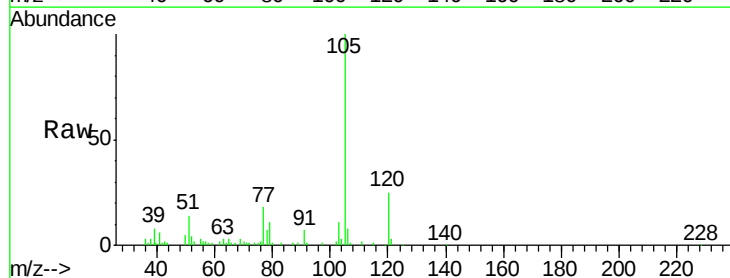
Acq: 23 Jun 2018 17:14

Tgt Ion:105 Resp: 106841

Ion Ratio Lower Upper

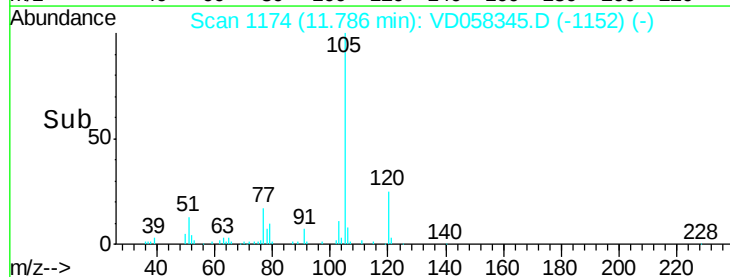
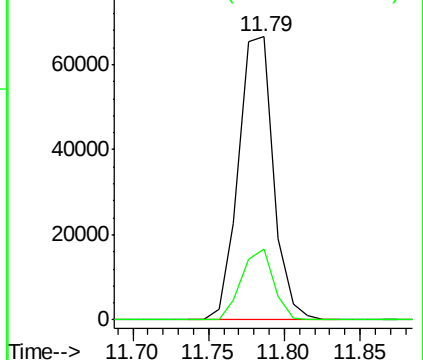
105 100

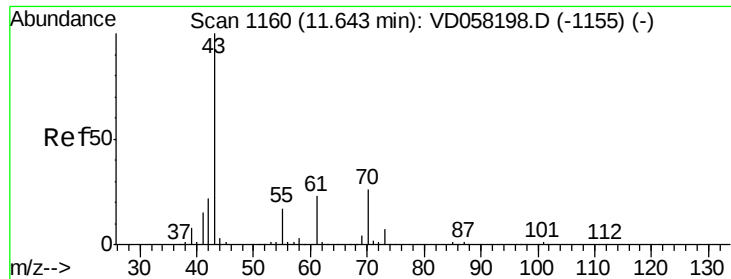
120 25.2 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 1.24 ug/l

RT: 11.60 min Scan# 1155

Delta R.T. -0.04 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 43 Resp: 13050

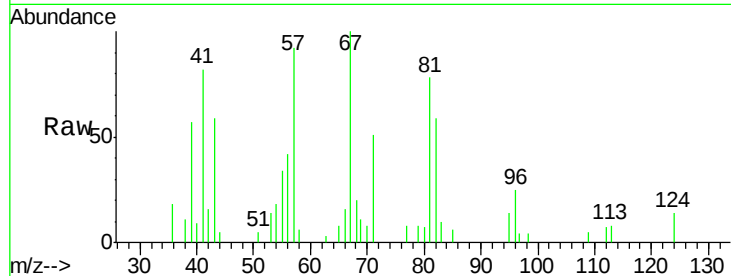
Ion Ratio Lower Upper

43 100

70 13.6 20.9 31.3#

55 57.2 13.5 20.3#

61 0.0 18.2 27.2#

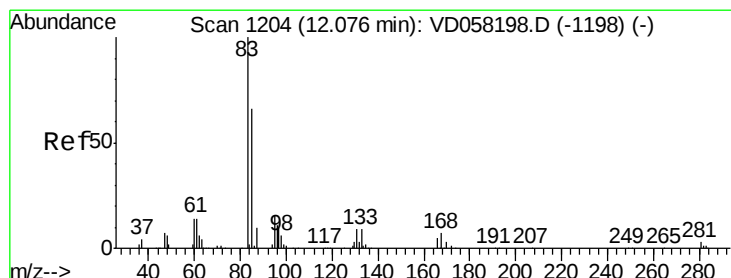
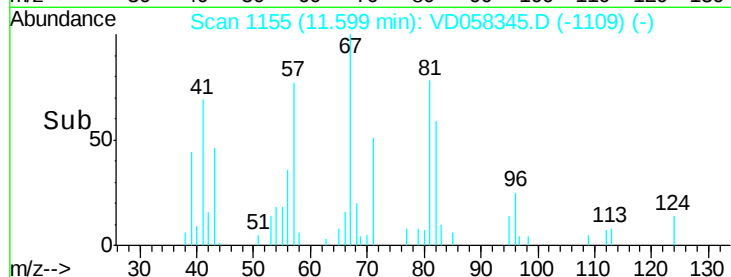
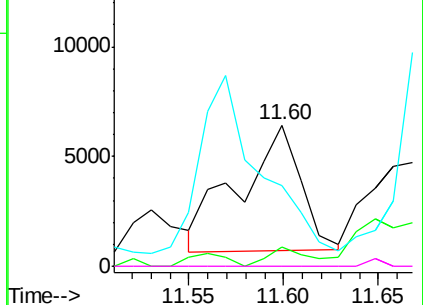


Abundance Ion 42.95 (42.65 to 43.65): VDC

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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.00 ug/l

RT: 12.08 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

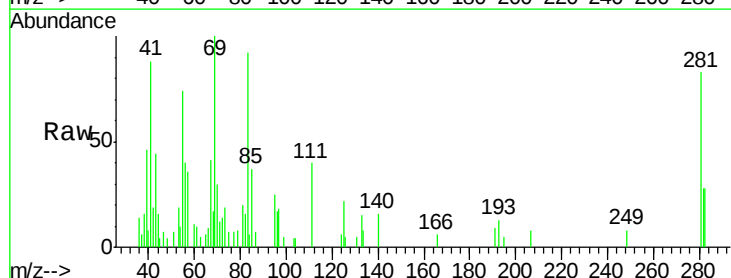
Tgt Ion: 83 Resp: 12680

Ion Ratio Lower Upper

83 100

131 5.6 4.8 14.3

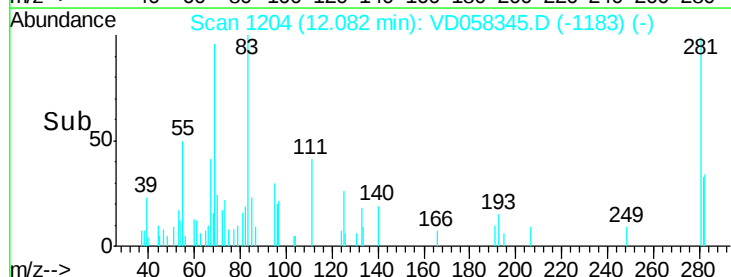
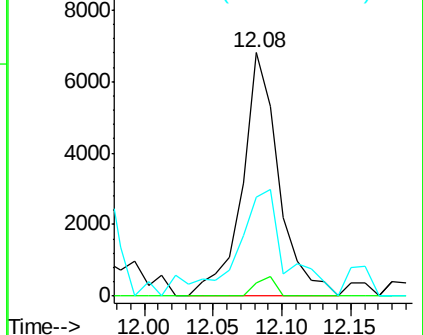
85 40.5 33.1 99.5

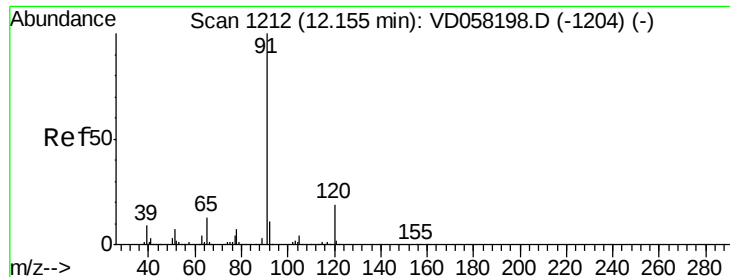


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC





#78

n-propylbenzene

Concen: 6.30 ug/l

RT: 12.16 min Scan# 1212

Delta R.T. 0.01 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

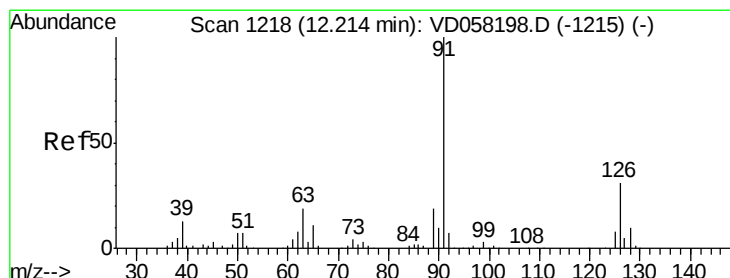
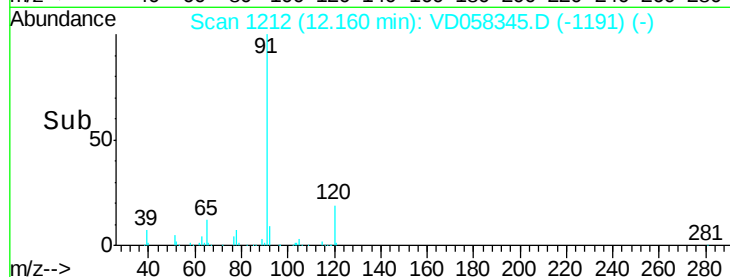
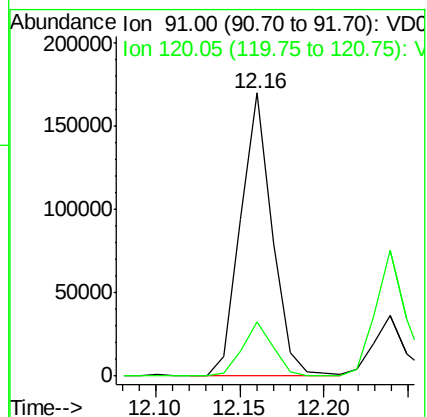
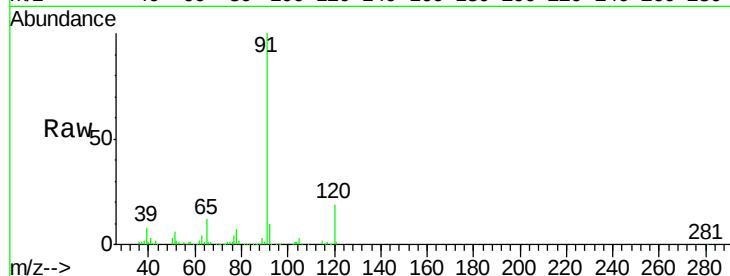
ClientSampled :

Tot Ion: 91 Resp: 221913

Ion Ratio Lower Upper

91 100

120 19.1 9.7 29.1



#79

2-Chlorotoluene

Concen: 2.75 ug/l

RT: 12.24 min Scan# 1220

Delta R.T. 0.03 min

Lab File: VD058345.D

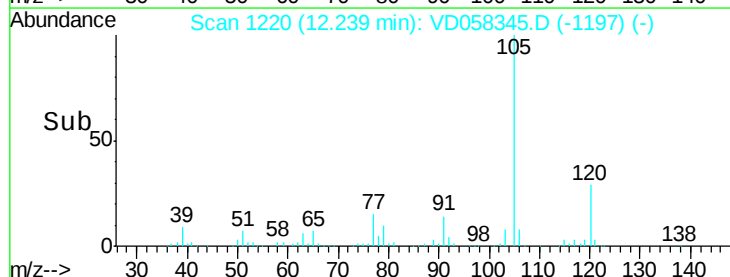
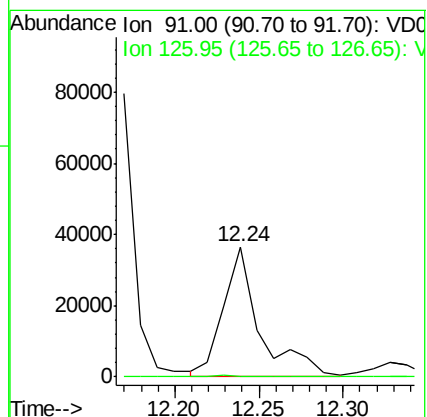
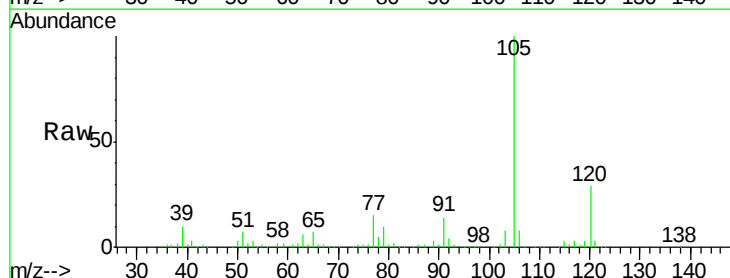
Acq: 23 Jun 2018 17:14

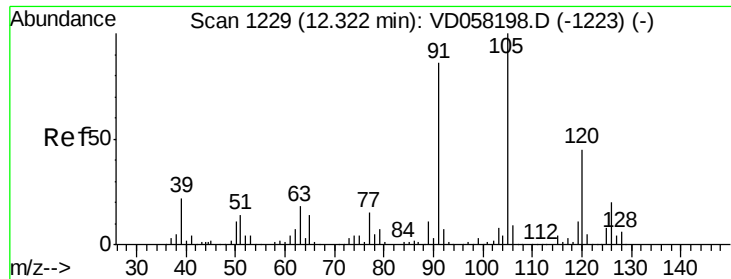
Tgt Ion: 91 Resp: 55370

Ion Ratio Lower Upper

91 100

126 0.0 14.9 44.5#





#80

1,3,5-Trimethylbenzene

Concen: 1.33 ug/l

RT: 12.33 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

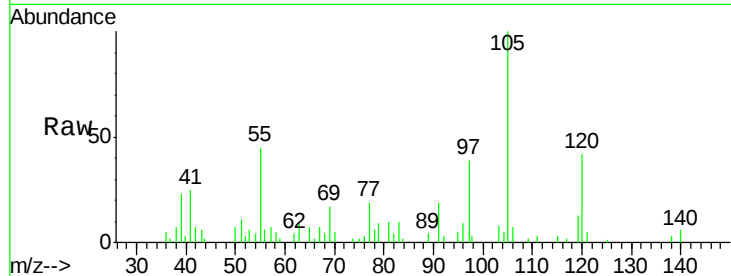
ClientSampled :

Tot Ion:105 Resp: 28317

Ion Ratio Lower Upper

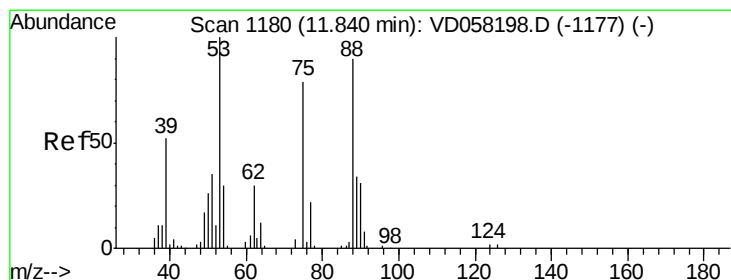
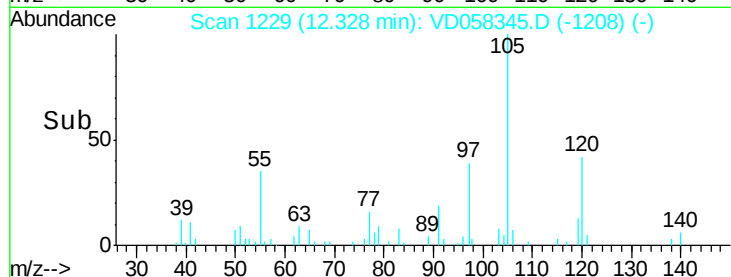
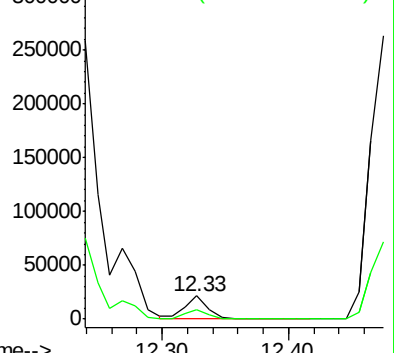
105 100

120 41.7 22.5 67.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 78.98 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

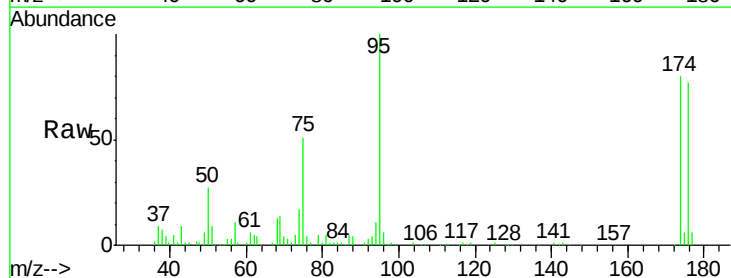
Tgt Ion: 75 Resp: 128157

Ion Ratio Lower Upper

75 100

53 0.8 100.8 151.2#

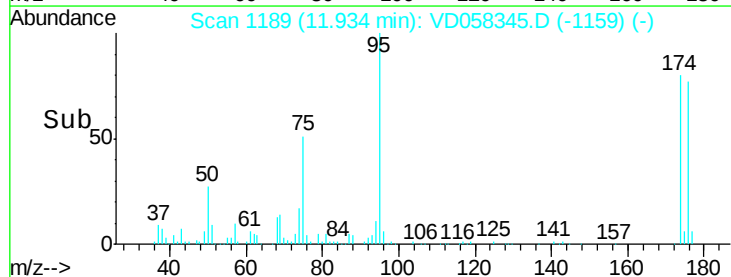
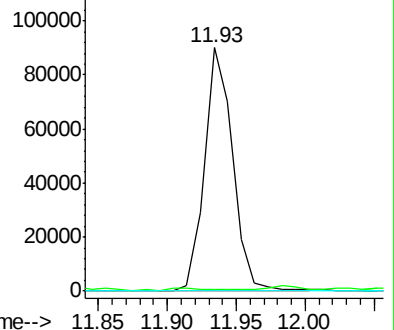
89 0.0 34.6 52.0#

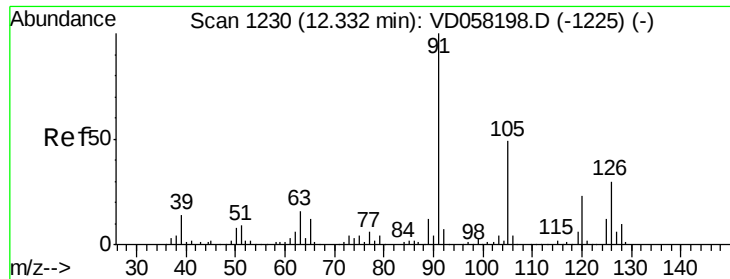


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

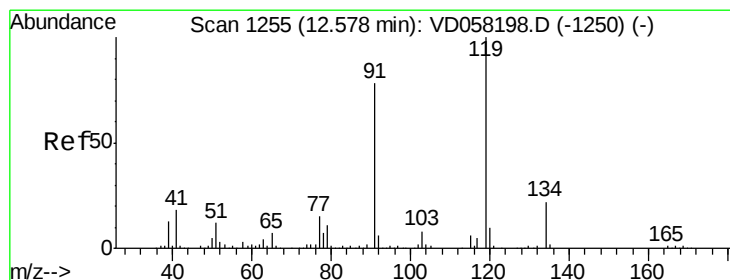
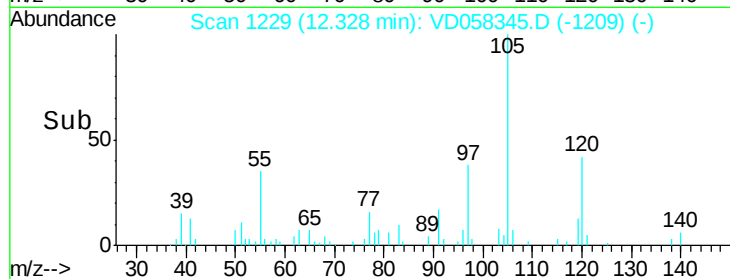
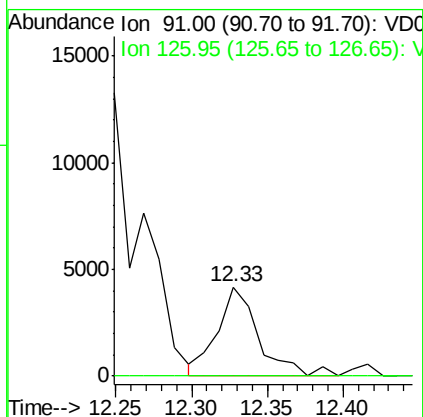
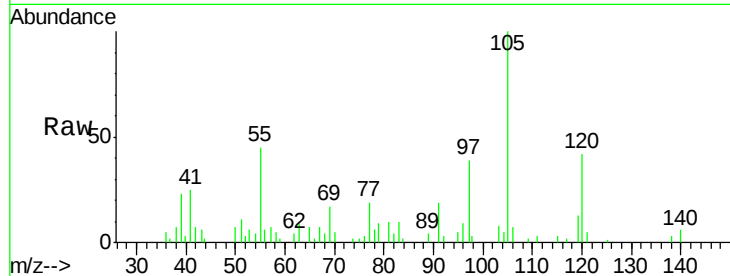




#82
4-Chlorotoluene
Concen: Below Cal
RT: 12.33 min Scan# 1229
Delta R.T. -0.00 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

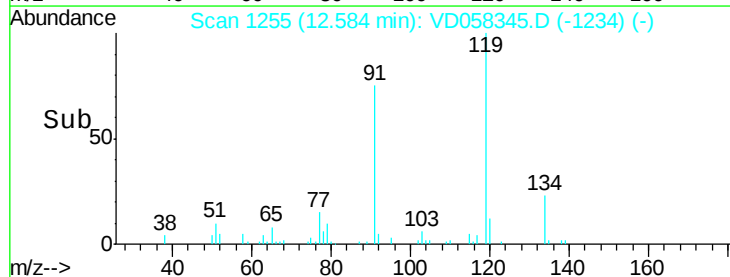
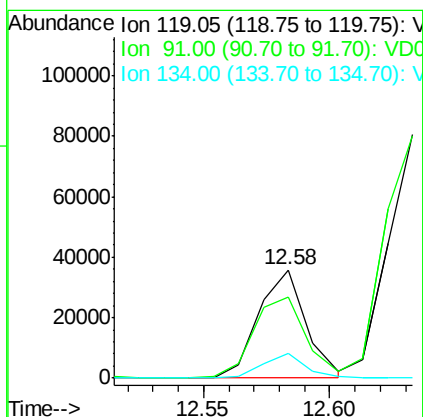
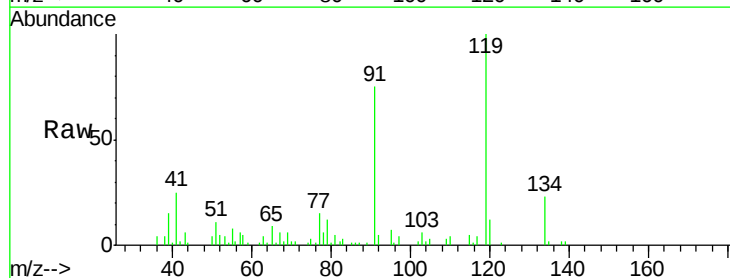
Instrument :
MSVOA_D
ClientSampled :

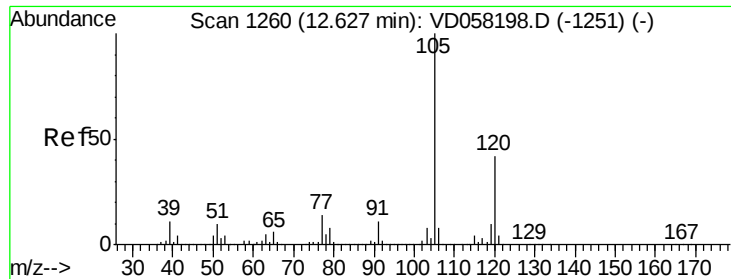
Tot Ion: 91 Resp: 8002
Ion Ratio Lower Upper
91 100
126 0.0 14.9 44.9#



#83
tert-Butylbenzene
Concen: 1.92 ug/l
RT: 12.58 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Tgt Ion: 119 Resp: 47039
Ion Ratio Lower Upper
119 100
91 74.7 38.9 116.6
134 23.1 11.2 33.5

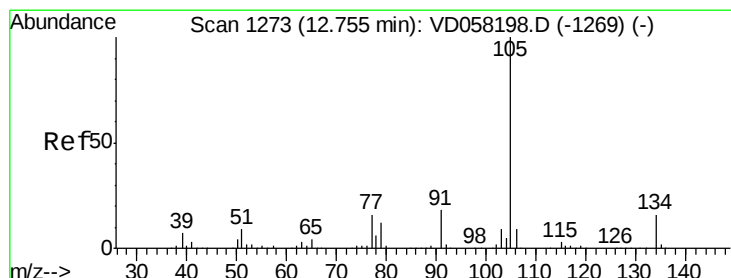
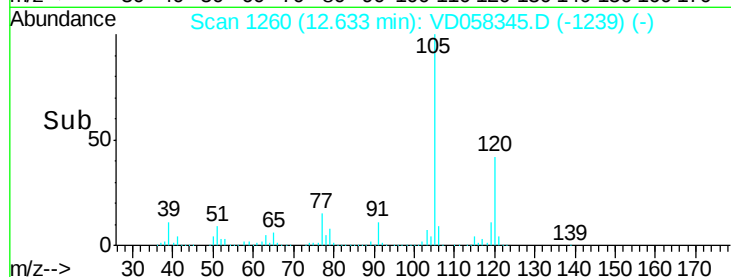
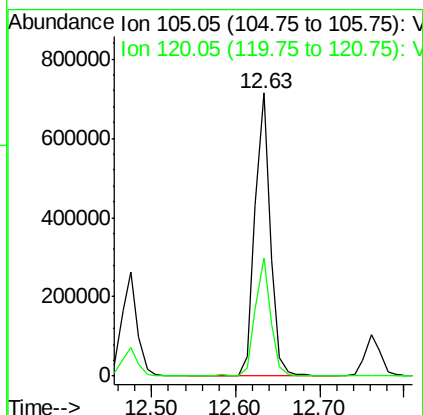
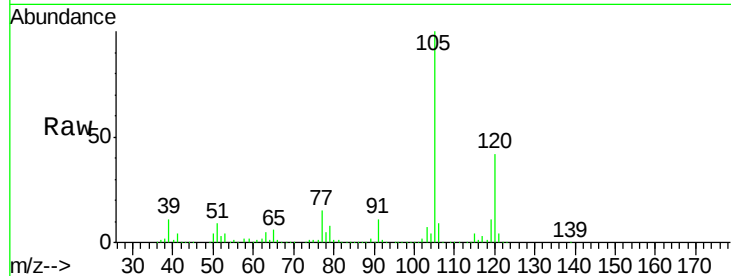




#84
 1,2,4-Trimethylbenzene
 Concen: 39.97 ug/l
 RT: 12.63 min Scan# 1260
 Delta R.T. 0.01 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

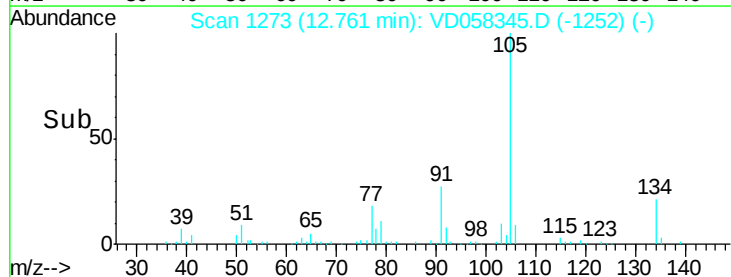
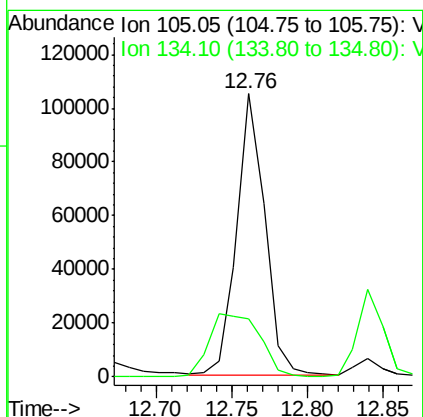
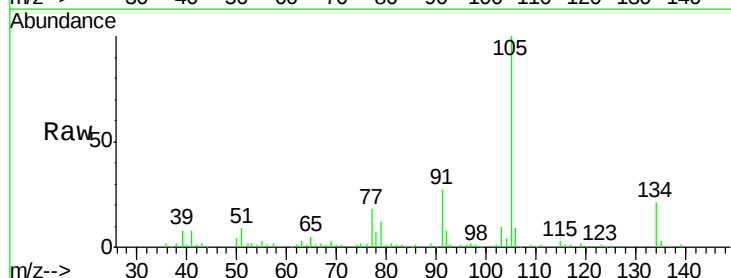
Instrument :
 MSVOA_D
 ClientSampled :

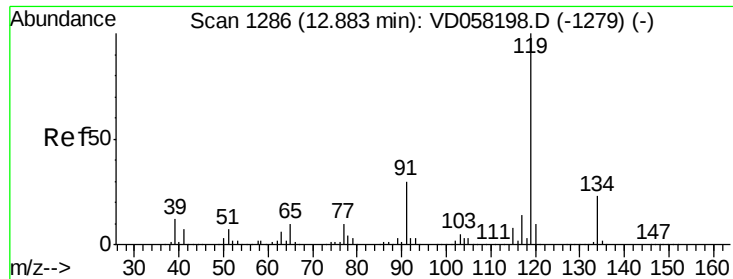
Tot Ion:105 Resp: 923578
 Ion Ratio Lower Upper
 105 100
 120 41.7 20.8 62.4



#85
 sec-Butylbenzene
 Concen: 4.72 ug/l
 RT: 12.76 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

Tgt Ion:105 Resp: 135305
 Ion Ratio Lower Upper
 105 100
 134 20.5 8.1 24.3

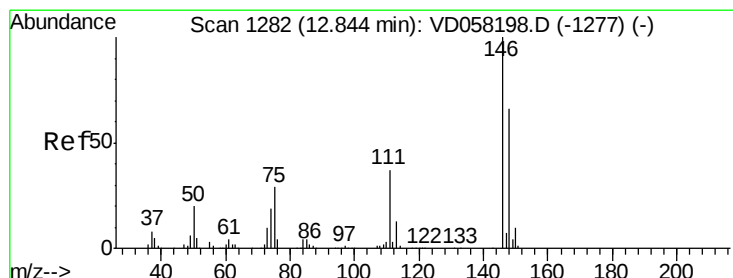
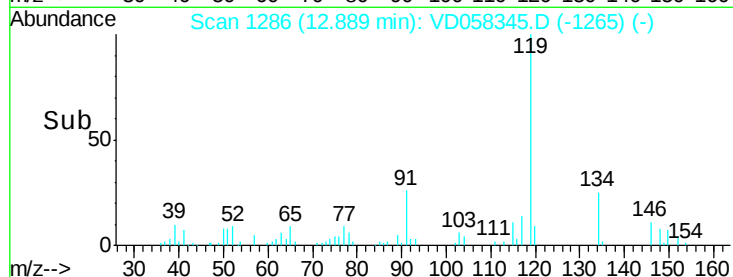
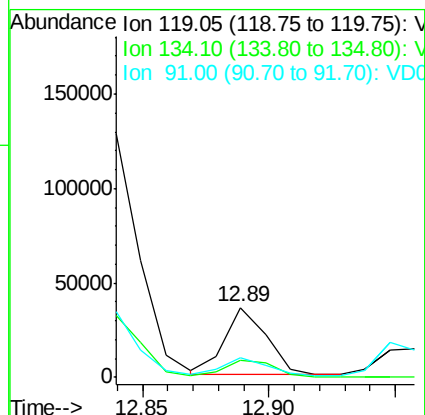
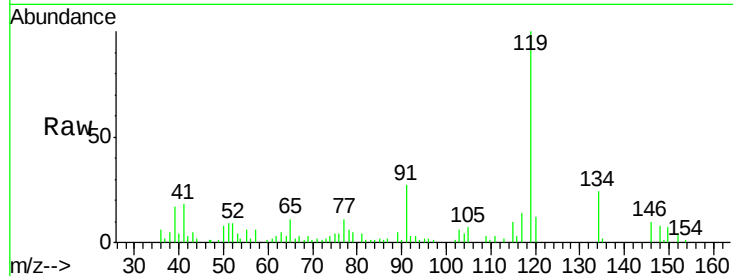




#86
 p-Isopropyltoluene
 Concen: 1.78 ug/l
 RT: 12.89 min Scan# 1286
 Delta R.T. 0.01 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

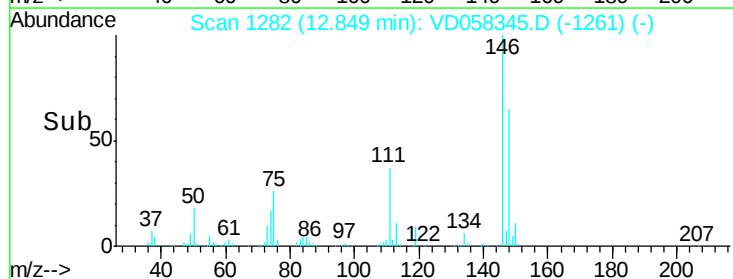
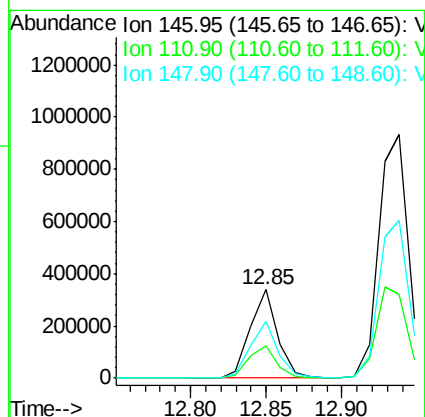
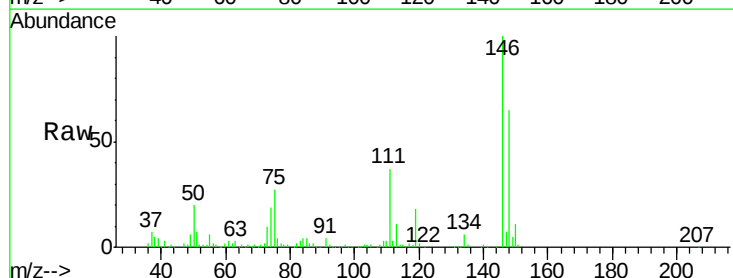
Instrument :
 MSVOA_D
 ClientSampleId :

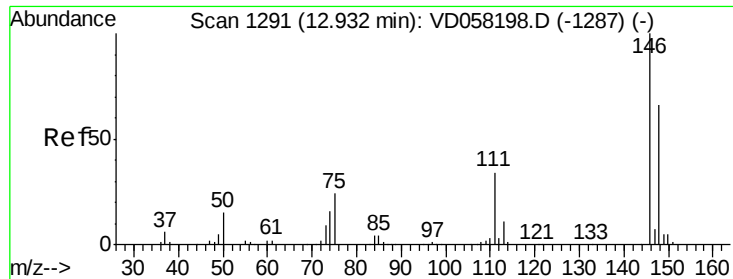
Tot Ion:119 Resp: 41375
 Ion Ratio Lower Upper
 119 100
 134 24.4 11.6 34.8
 91 27.1 15.0 45.1



#87
 1,3-Dichlorobenzene
 Concen: 30.09 ug/l
 RT: 12.85 min Scan# 1282
 Delta R.T. 0.01 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

Tgt Ion:146 Resp: 426912
 Ion Ratio Lower Upper
 146 100
 111 37.3 18.4 55.0
 148 64.8 32.8 98.4

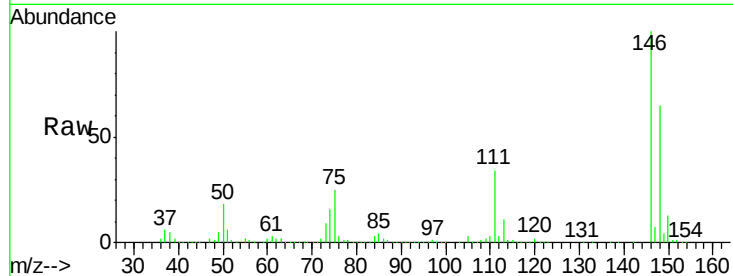




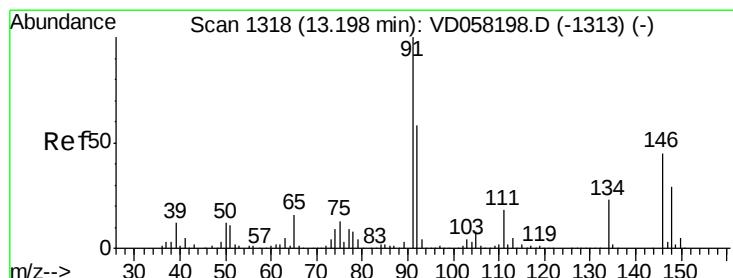
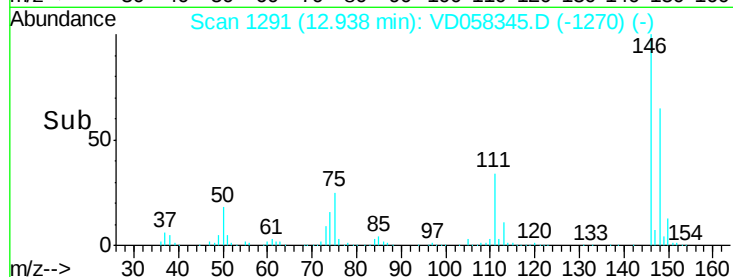
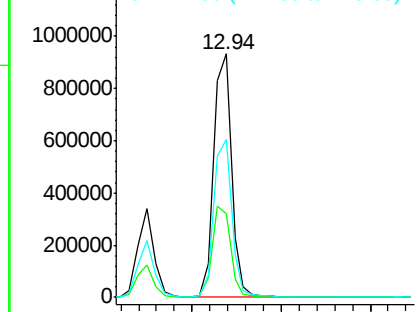
#88
 1,4-Dichlorobenzene
 Concen: 93.90 ug/l
 RT: 12.94 min Scan# 1291
 Delta R.T. 0.01 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:146 Resp: 1300806
 Ion Ratio Lower Upper
 146 100
 111 34.3 17.2 51.5
 148 64.7 33.1 99.3

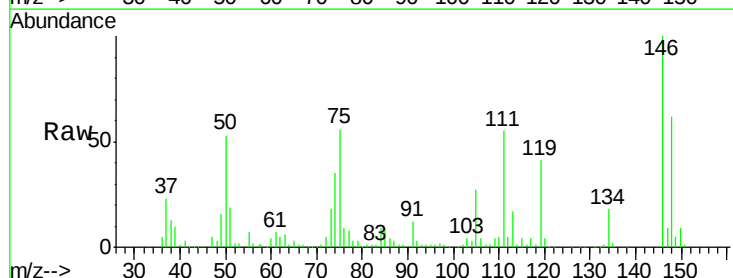


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

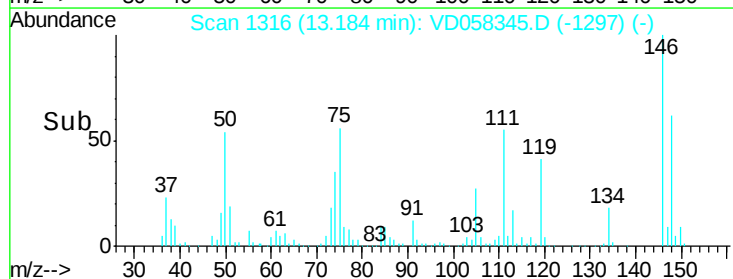
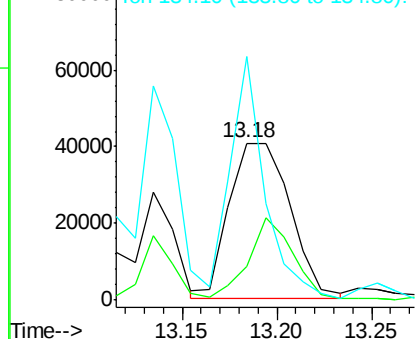


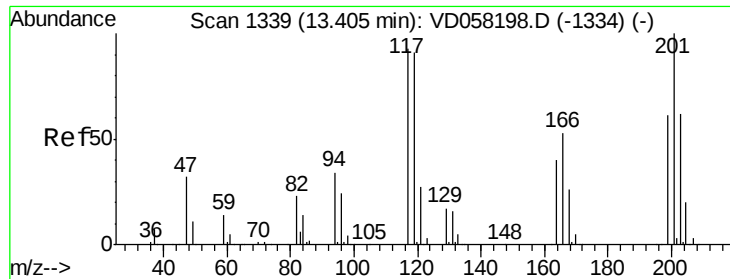
#89
 n-Butylbenzene
 Concen: 3.71 ug/l
 RT: 13.18 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

Tgt Ion: 91 Resp: 90591
 Ion Ratio Lower Upper
 91 100
 92 21.5 29.2 87.6#
 134 154.9 11.3 33.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC
 Ion 92.00 (91.70 to 92.70): VDC
 Ion 134.10 (133.80 to 134.80): V





#90

Hexachloroethane

Concen: 3.86 ug/l

RT: 13.40 min Scan# 1338

Delta R.T. -0.00 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

Instrument :

MSVOA_D

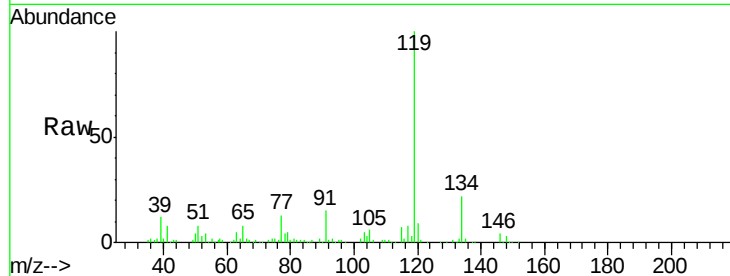
ClientSampled :

Tot Ion:117 Resp: 23267

Ion Ratio Lower Upper

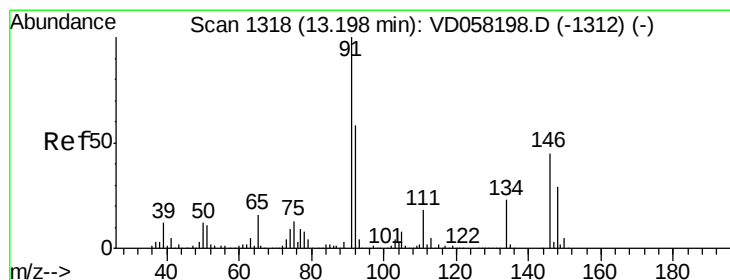
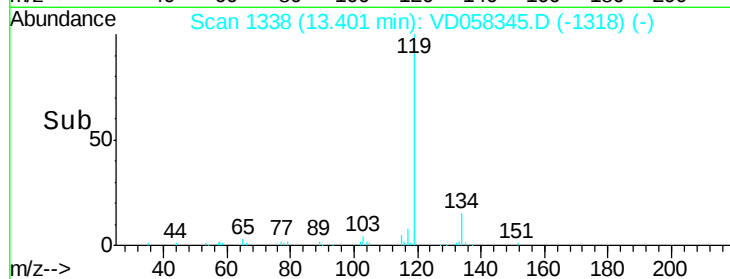
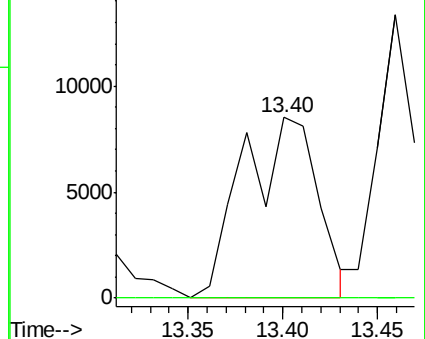
117 100

201 0.0 53.8 161.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#91

1,2-Dichlorobenzene

Concen: 420.36 ug/l

RT: 13.20 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VD058345.D

Acq: 23 Jun 2018 17:14

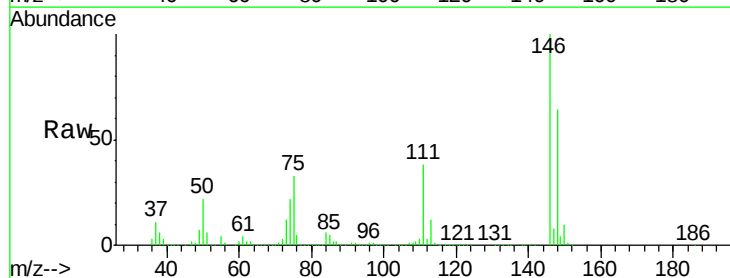
Tgt Ion:146 Resp: 5074518

Ion Ratio Lower Upper

146 100

111 38.1 19.6 58.7

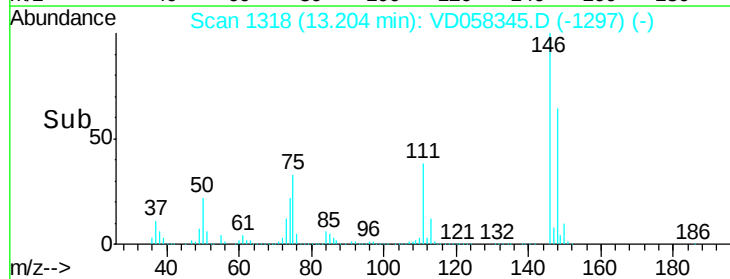
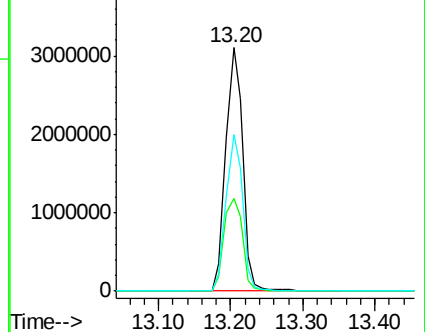
148 64.3 32.0 96.2

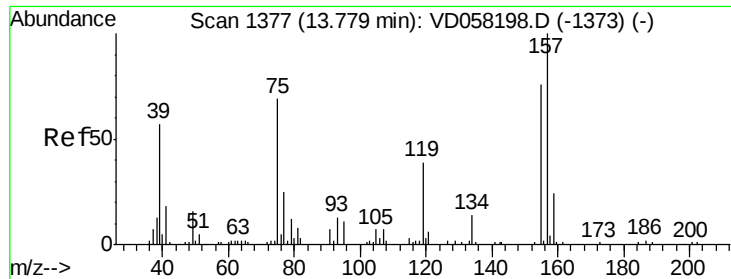


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

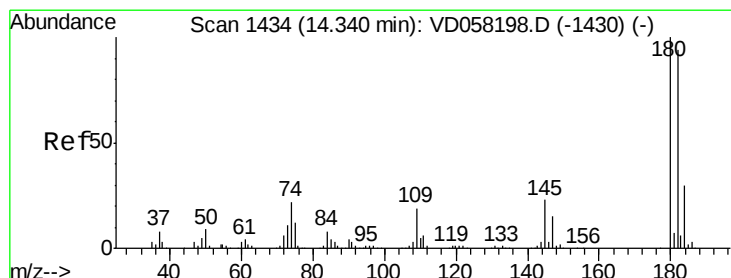
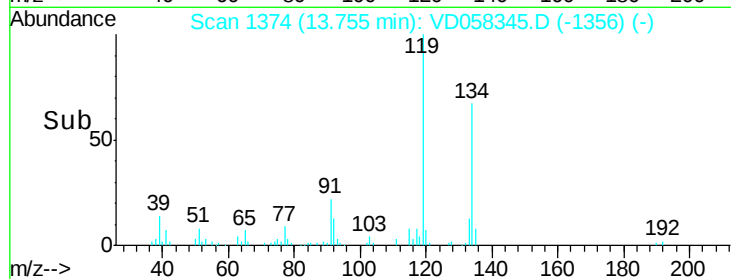
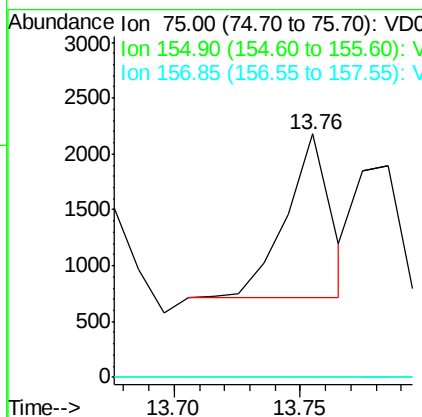
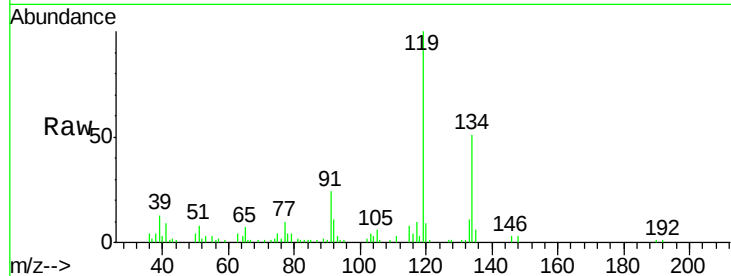




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.79 ug/l
 RT: 13.76 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

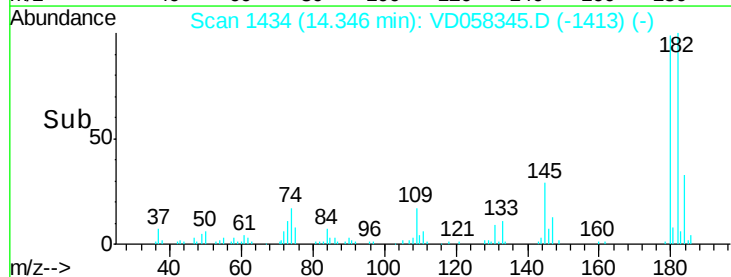
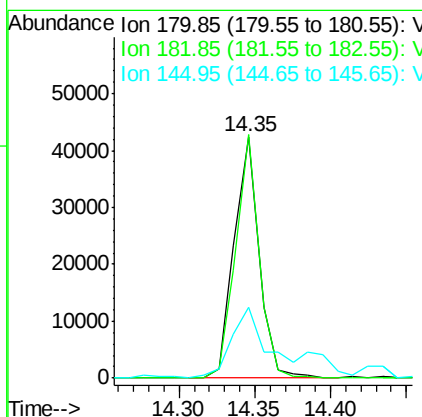
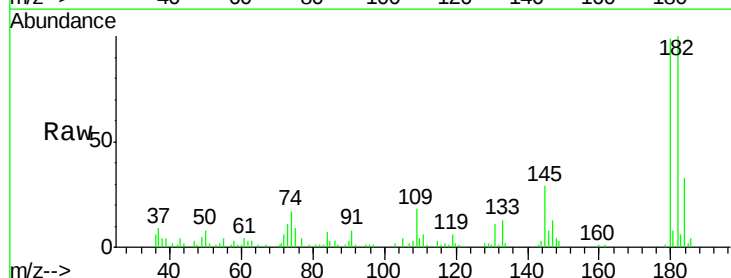
Instrument :
 MSVOA_D
 ClientSampleId :

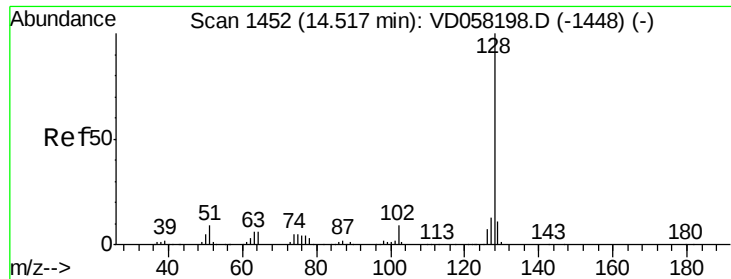
Tot Ion: 75 Resp: 1808
 Ion Ratio Lower Upper
 75 100
 155 0.0 54.5 163.5#
 157 0.0 72.0 215.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 4.22 ug/l
 RT: 14.35 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: VD058345.D
 Acq: 23 Jun 2018 17:14

Tgt Ion: 180 Resp: 48728
 Ion Ratio Lower Upper
 180 100
 182 100.9 47.1 141.3
 145 29.3 11.7 35.0

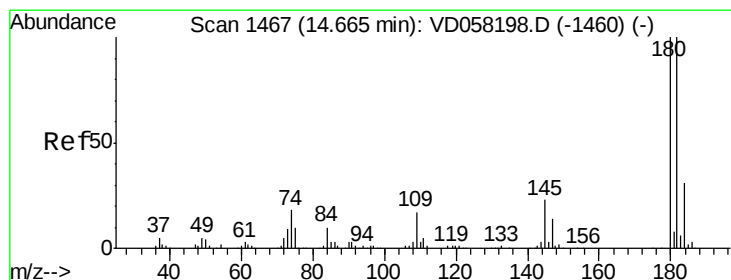
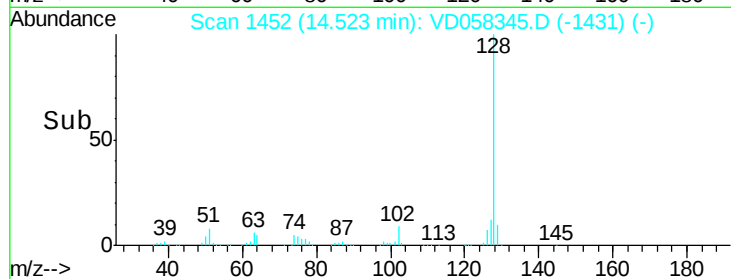
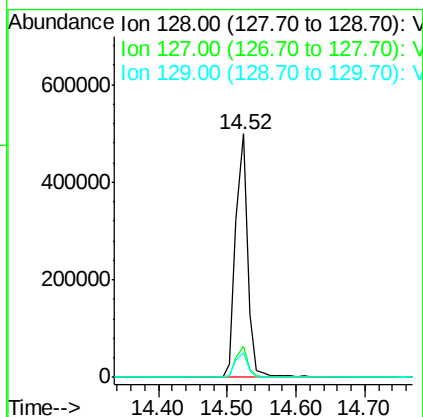
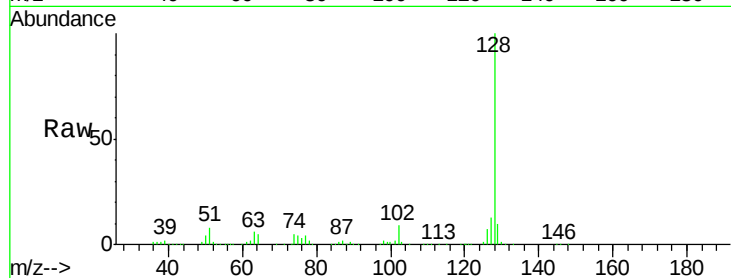




#95
Naphthalene
Concen: 40.00 ug/l
RT: 14.52 min Scan# 1452
Delta R.T. 0.01 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 608305
Ion Ratio Lower Upper
128 100
127 12.5 10.0 15.0
129 10.3 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 1.85 ug/l
RT: 14.66 min Scan# 1466
Delta R.T. -0.00 min
Lab File: VD058345.D
Acq: 23 Jun 2018 17:14

Tgt Ion:180 Resp: 18735
Ion Ratio Lower Upper
180 100
182 97.7 49.9 149.6
145 40.8 11.7 35.1#

