

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058351.D
 Acq On : 23 Jun 2018 20:04
 Operator : VA/AP
 Sample : J3671-02
 Misc : 6.94g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:11:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	900829	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.71	114	1179239	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	914822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	464588	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	330878	36.36	ug/l	0.02
Spiked Amount 50.000			Recovery =	72.72%		
35) Dibromofluoromethane	5.57	113	347045	36.16	ug/l	0.02
Spiked Amount 50.000			Recovery =	72.32%		
50) Toluene-d8	8.72	98	823685	35.47	ug/l	0.00
Spiked Amount 50.000			Recovery =	70.94%		
62) 4-Bromofluorobenzene	11.94	95	335584	35.38	ug/l	0.00
Spiked Amount 50.000			Recovery =	70.76%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.37	85	415	Below Cal	#	43
3) Chloromethane	1.57	50	35692	5.17	ug/l	43
4) Vinyl Chloride	1.57	62	4535529	961.11	ug/l	98
5) Bromomethane	1.86	94	228	Below Cal	#	3
6) Chloroethane	1.91	64	26433	14.52	ug/l	93
11) Tert butyl alcohol	3.22	59	14356	47.84	ug/l	78
12) 1,1-Dichloroethene	2.57	96	4426	1.43	ug/l	66
13) Acrolein	2.37	56	289	1.69	ug/l	11
16) Acetone	2.62	43	149022	119.76	ug/l	91
17) Carbon Disulfide	2.77	76	109187	10.37	ug/l	96
18) Methyl Acetate	2.95	43	8874	3.34	ug/l	86
20) Methylene Chloride	3.09	84	35014	6.65	ug/l	96
21) trans-1,2-Dichloroethene	3.40	96	106509	31.49	ug/l	91
24) 1,1-Dichloroethane	3.99	63	69915	4.54	ug/l	99
25) 2-Butanone	4.87	43	20868	7.69	ug/l	1
27) cis-1,2-Dichloroethene	4.83	96	8445313	999.17	ug/l	93
29) Tetrahydrofuran	5.21	42	3247	2.25	ug/l	61
31) Cyclohexane	5.62	56	17520	Below Cal	#	73
36) 1,1-Dichloropropene	5.66	75	73736	6.32	ug/l	51
37) Ethyl Acetate	4.87	43	20868	3.14	ug/l	1
38) Carbon Tetrachloride	5.67	117	72715	6.27	ug/l	15
39) Methylcyclohexane	7.30	83	131284	11.55	ug/l	99
40) Benzene	6.03	78	282795	10.18	ug/l	100
42) 1,2-Dichloroethane	6.14	62	19248	1.72	ug/l	99
44) Trichloroethene	7.00	130	249512	29.90	ug/l	97
51) 4-Methyl-2-Pentanone	8.61	43	81549	14.11	ug/l	95
52) Toluene	8.82	92	1946301	123.00	ug/l	98
59) 2-Hexanone	9.74	43	7756	1.86	ug/l	32
65) Chlorobenzene	10.74	112	1507792	88.11	ug/l	96
67) Ethyl Benzene	10.86	91	302079	10.00	ug/l	97
68) m/p-Xylenes	11.01	106	256936	25.50	ug/l	99
69) o-Xylene	11.42	106	50156	5.21	ug/l	86
73) Isopropylbenzene	11.78	105	163748	5.89	ug/l	97
74) N-amyl acetate	11.68	43	21015	1.96	ug/l	1

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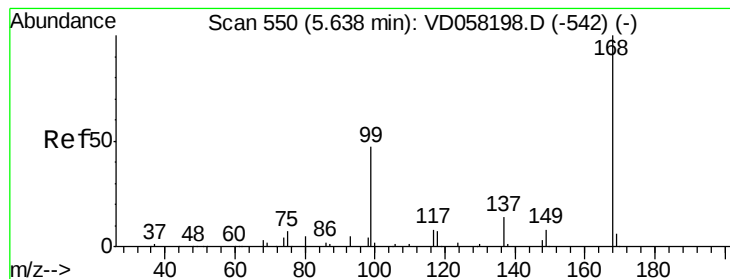
Instrument :
 MSVOA_D
 ClientSampleId :

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

78) n-propylbenzene	12.16	91	245790	6.85	ug/l	98
79) 2-Chlorotoluene	12.23	91	41163	2.00	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.32	105	329415	15.20	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.94	75	161402	97.56	ug/l #	1
82) 4-Chlorotoluene	12.32	91	38492	Below	Cal #	45
83) tert-Butylbenzene	12.58	119	82741	3.32	ug/l	98
84) 1,2,4-Trimethylbenzene	12.63	105	473441	20.09	ug/l	97
85) sec-Butylbenzene	12.76	105	186649	6.39	ug/l	97
86) p-Isopropyltoluene	12.89	119	124640	5.27	ug/l	97
87) 1,3-Dichlorobenzene	12.84	146	138062	9.55	ug/l	93
88) 1,4-Dichlorobenzene	12.93	146	416478	29.49	ug/l	97
89) n-Butylbenzene	13.20	91	124797	5.02	ug/l #	82
90) Hexachloroethane	13.40	117	20547	3.34	ug/l #	1
91) 1,2-Dichlorobenzene	13.20	146	802317	65.18	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.78	75	1530	1.49	ug/l #	1
95) Naphthalene	14.52	128	129468	8.35	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

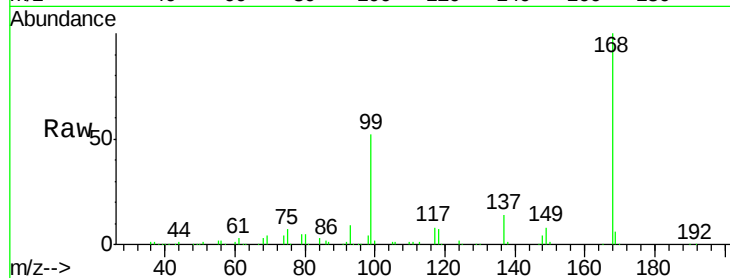
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 900829

Ion Ratio Lower Upper

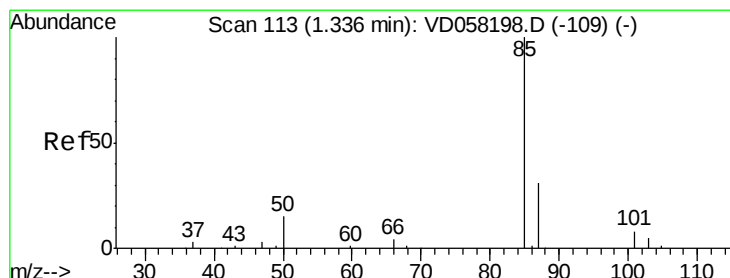
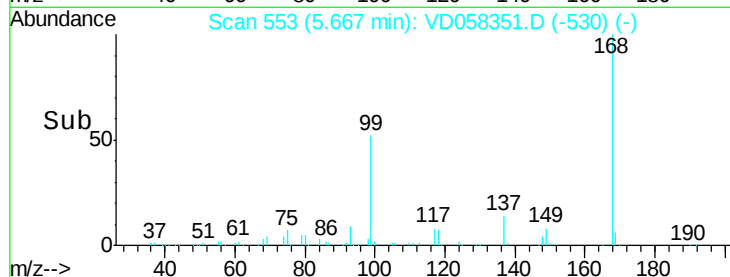
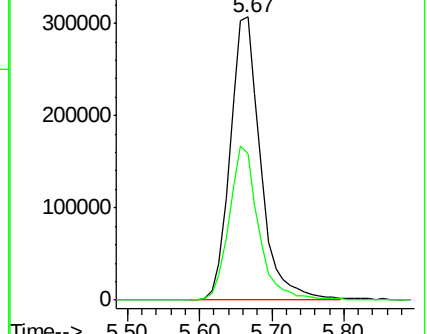
168 100

99 51.6 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: 1.37 min Scan# 117

Delta R.T. 0.04 min

Lab File: VD058351.D

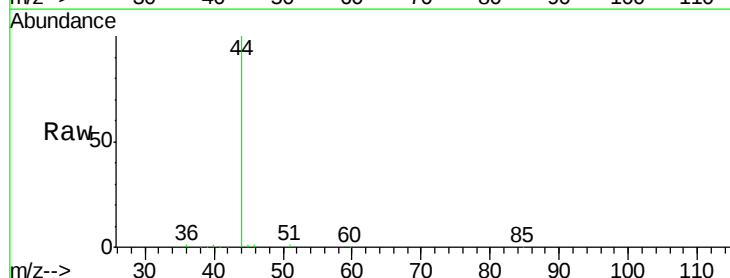
Acq: 23 Jun 2018 20:04

Tgt Ion: 85 Resp: 415

Ion Ratio Lower Upper

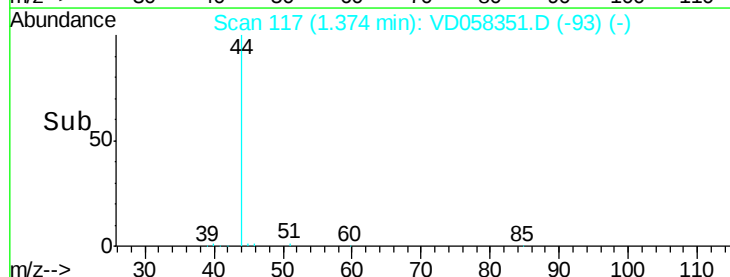
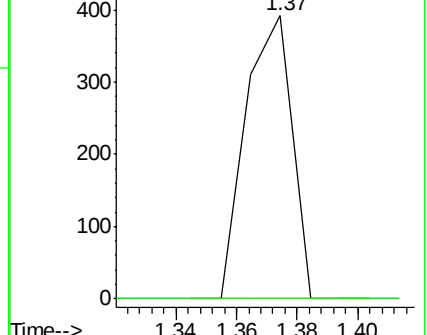
85 100

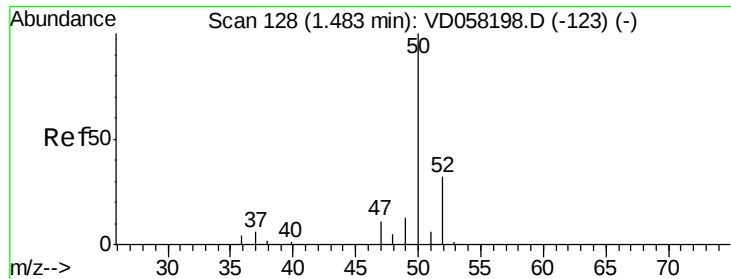
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 5.17 ug/l

RT: 1.57 min Scan# 137

Delta R.T. 0.09 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

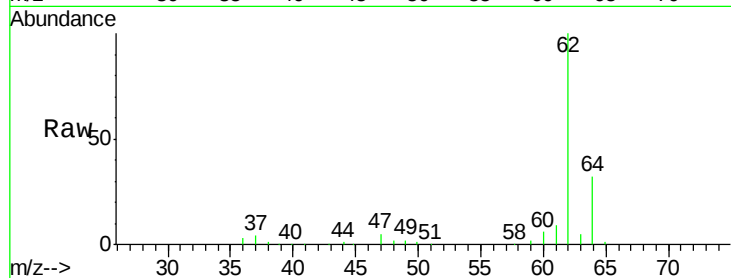
ClientSampleId :

Tot Ion: 50 Resp: 35692

Ion Ratio Lower Upper

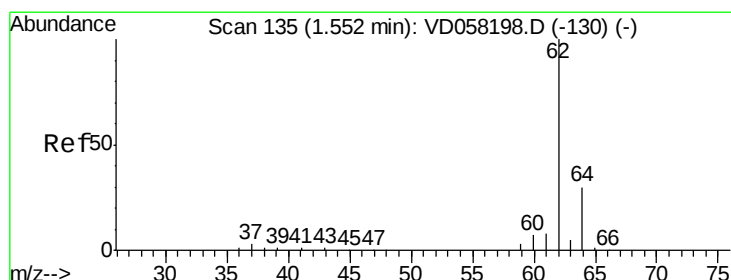
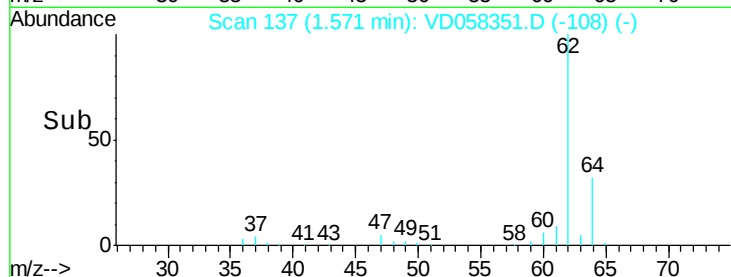
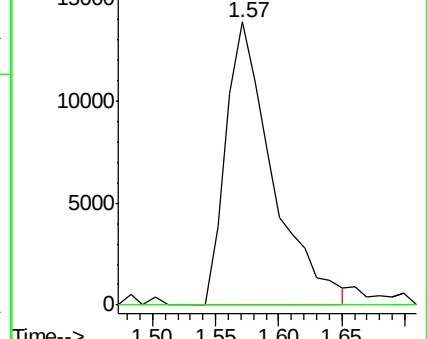
50 100

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: 961.11 ug/l

RT: 1.57 min Scan# 137

Delta R.T. 0.02 min

Lab File: VD058351.D

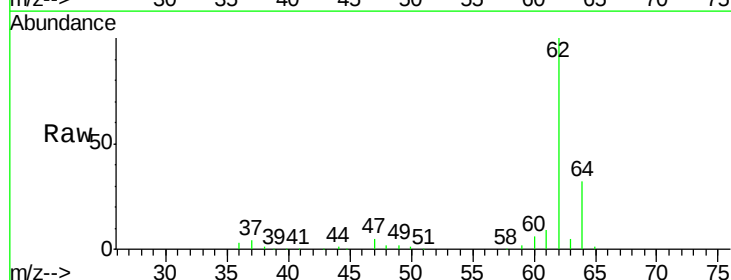
Acq: 23 Jun 2018 20:04

Tgt Ion: 62 Resp: 4535529

Ion Ratio Lower Upper

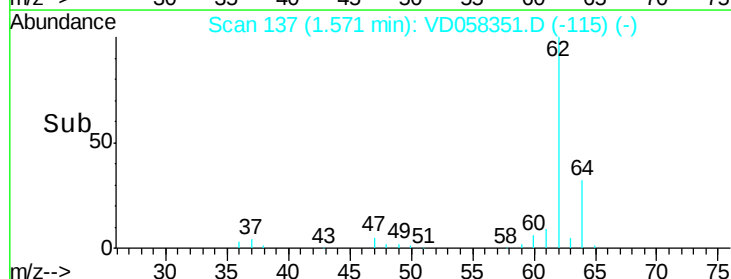
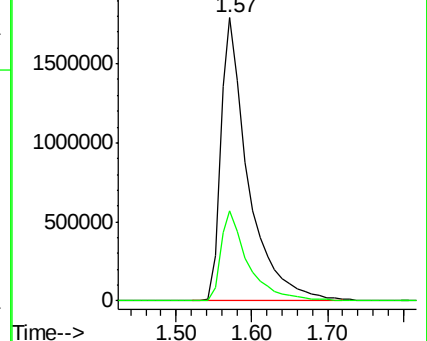
62 100

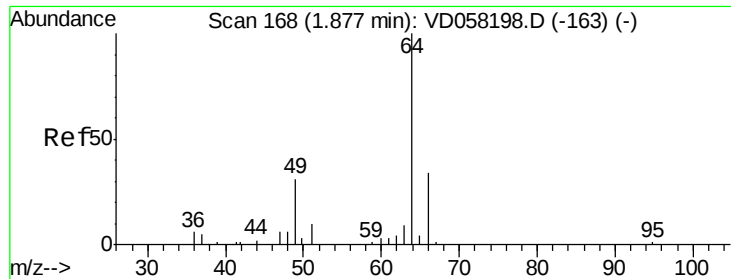
64 31.9 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#6

Chloroethane

Concen: 14.52 ug/l

RT: 1.91 min Scan# 171

Delta R.T. 0.03 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

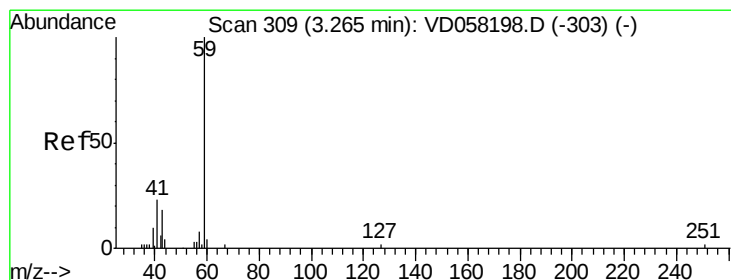
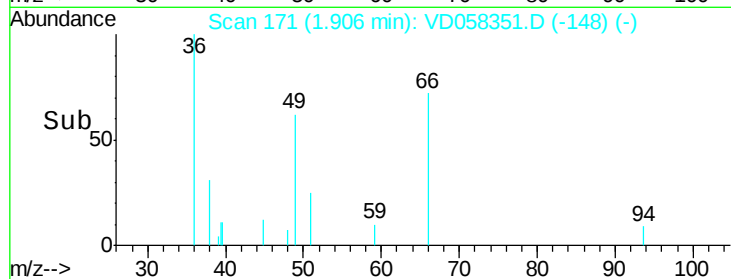
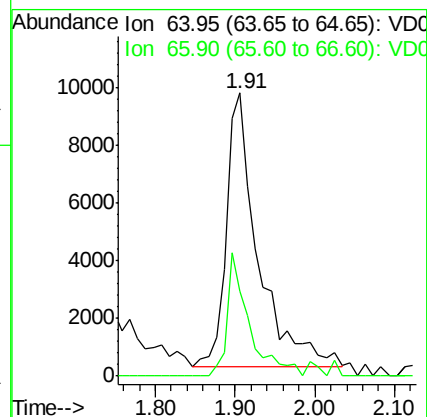
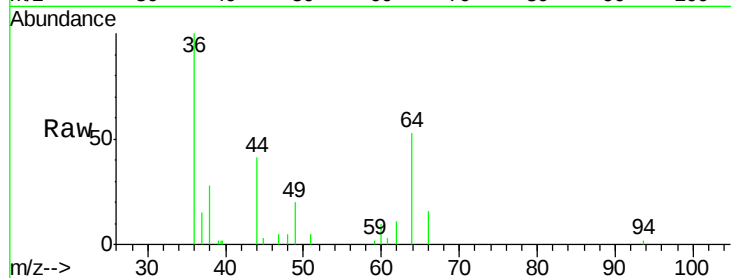
ClientSampleId :

Tot Ion: 64 Resp: 26433

Ion Ratio Lower Upper

64 100

66 30.2 27.3 40.9



#11

Tert butyl alcohol

Concen: 47.84 ug/l

RT: 3.22 min Scan# 304

Delta R.T. -0.05 min

Lab File: VD058351.D

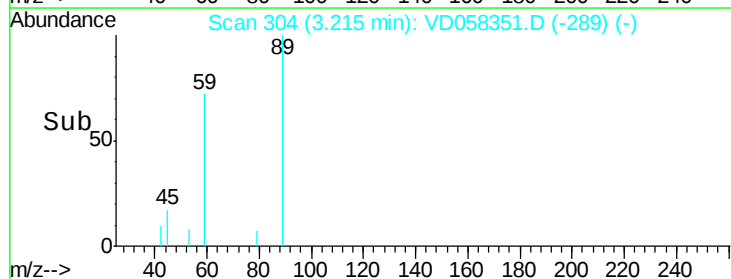
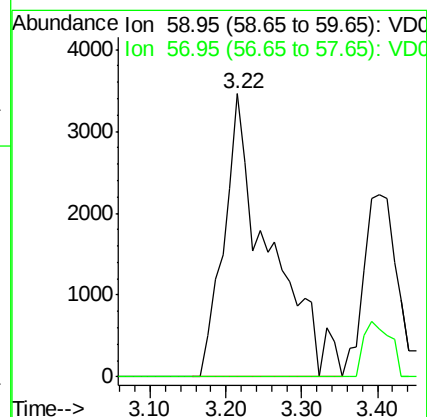
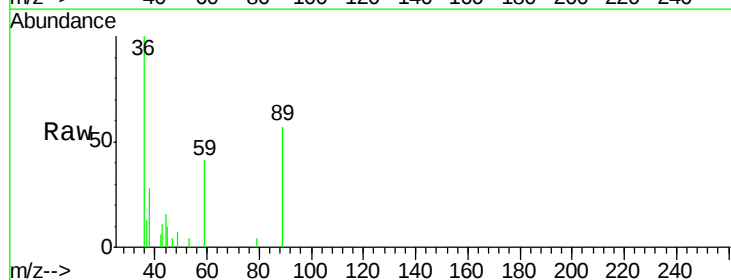
Acq: 23 Jun 2018 20:04

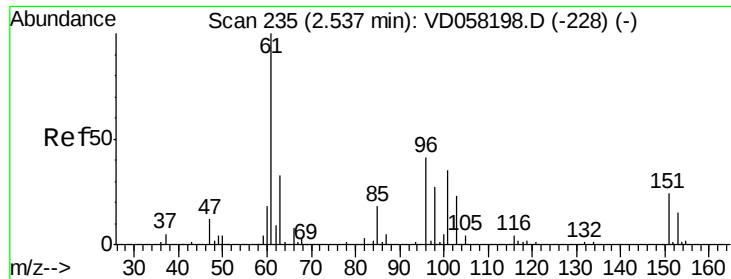
Tgt Ion: 59 Resp: 14356

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.4#





#12

1,1-Dichloroethene

Concen: 1.43 ug/l

RT: 2.57 min Scan# 238

Delta R.T. 0.03 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :
MSVOA_D
ClientSampleId :

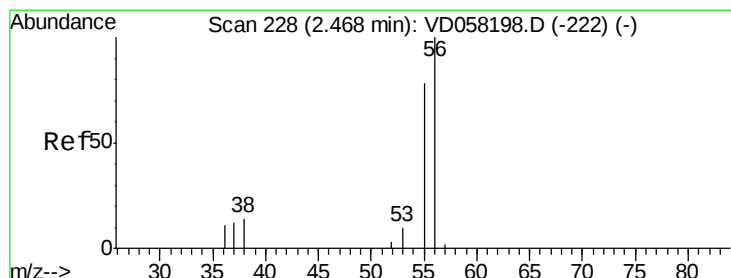
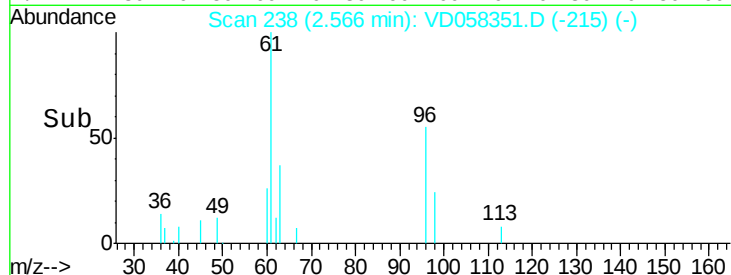
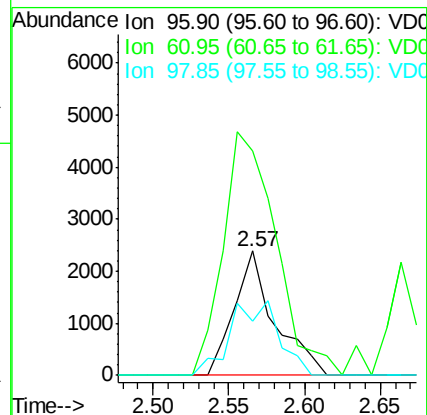
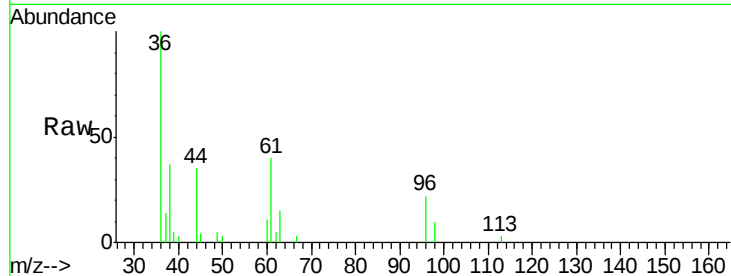
Tot Ion: 96 Resp: 4426

Ion Ratio Lower Upper

96 100

61 181.0 193.9 290.9#

98 43.7 51.7 77.5#



#13

Acrolein

Concen: 1.69 ug/l

RT: 2.37 min Scan# 218

Delta R.T. -0.10 min

Lab File: VD058351.D

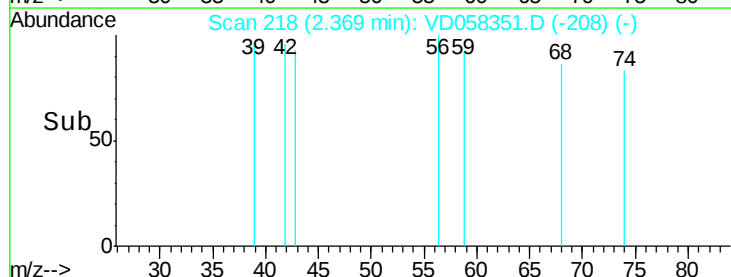
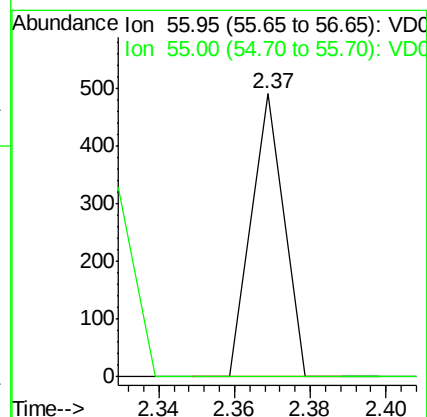
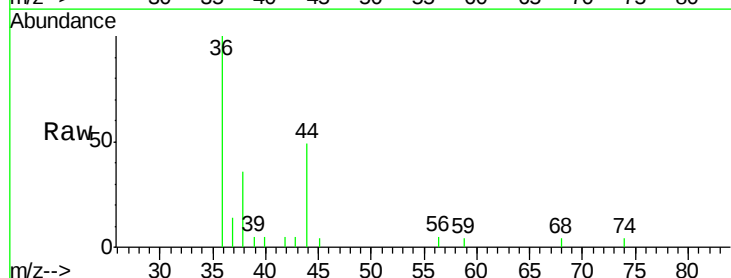
Acq: 23 Jun 2018 20:04

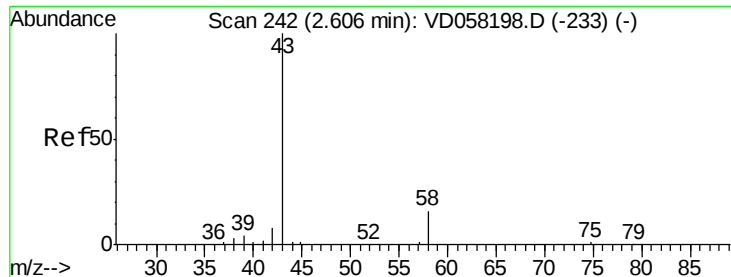
Tgt Ion: 56 Resp: 289

Ion Ratio Lower Upper

56 100

55 0.0 62.1 93.1#





#16

Acetone

Concen: 119.76 ug/l

RT: 2.62 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

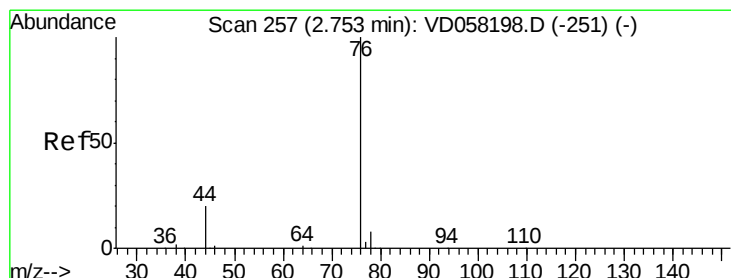
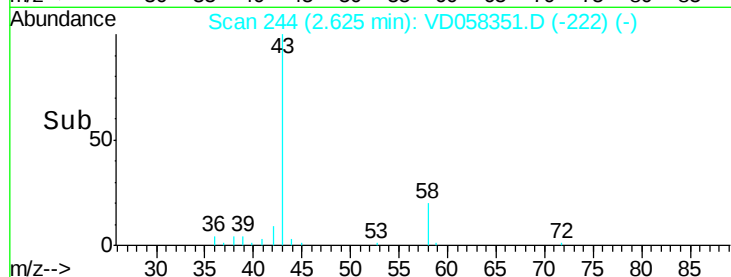
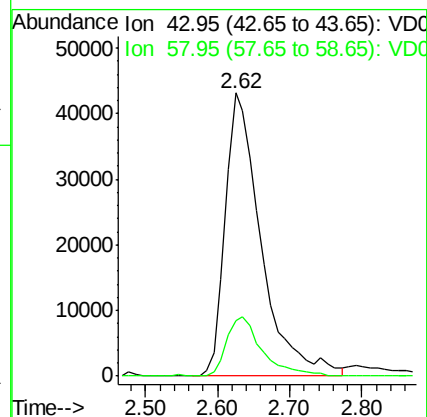
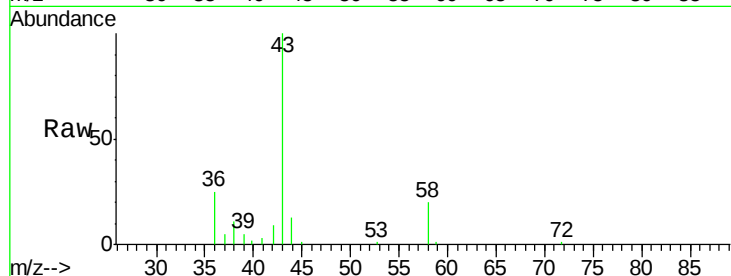
ClientSampleId :

Tot Ion: 43 Resp: 149022

Ion Ratio Lower Upper

43 100

58 19.8 12.7 19.1#



#17

Carbon Disulfide

Concen: 10.37 ug/l

RT: 2.77 min Scan# 259

Delta R.T. 0.02 min

Lab File: VD058351.D

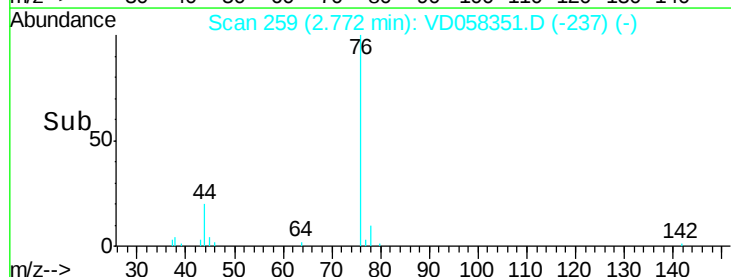
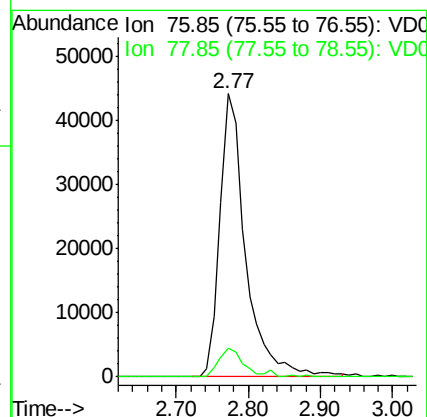
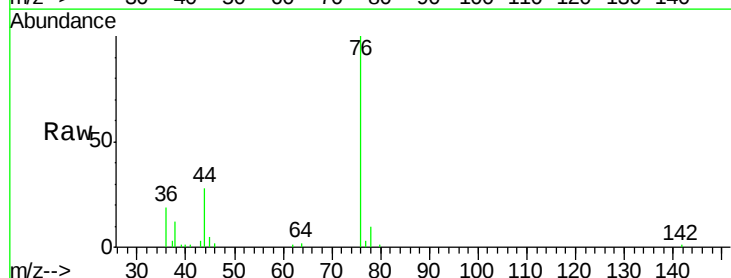
Acq: 23 Jun 2018 20:04

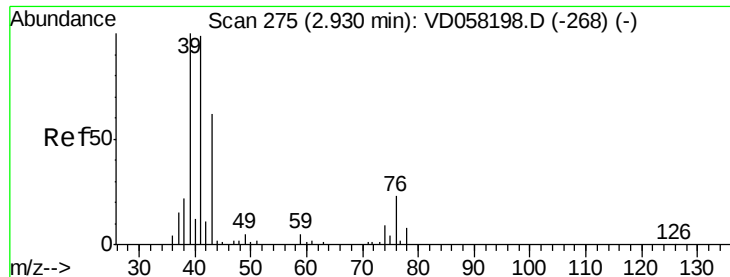
Tgt Ion: 76 Resp: 109187

Ion Ratio Lower Upper

76 100

78 9.9 6.8 10.2

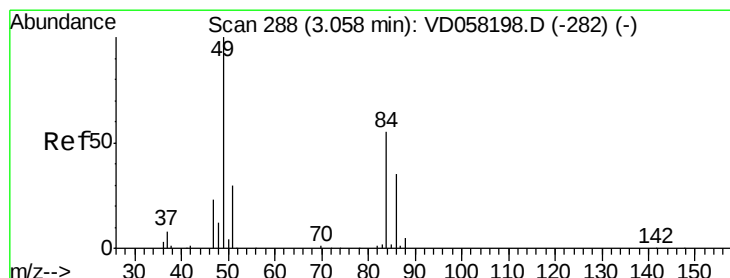
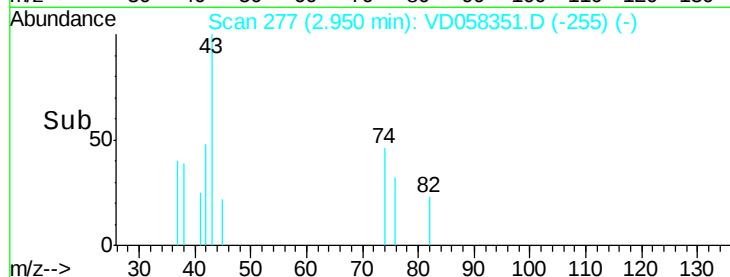
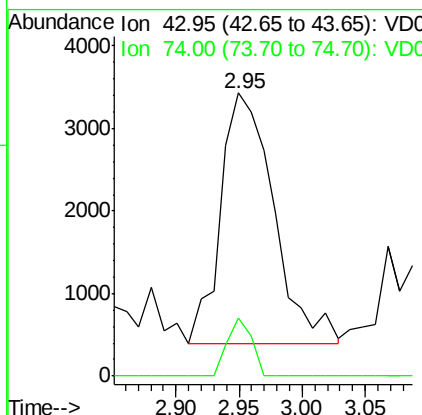
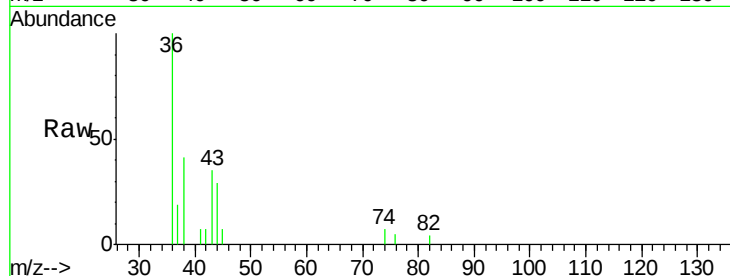




#18
Methyl Acetate
Concen: 3.34 ug/l
RT: 2.95 min Scan# 277
Delta R.T. 0.02 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

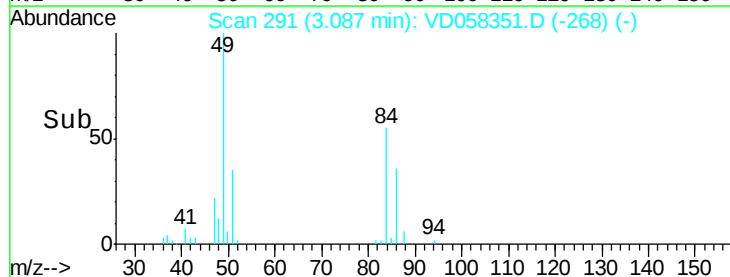
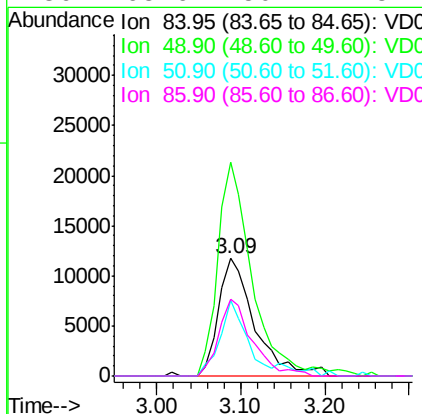
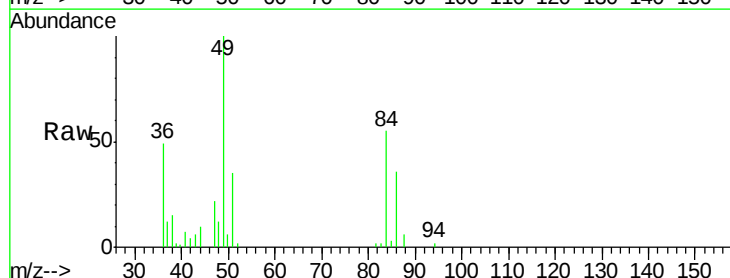
Instrument :
MSVOA_D
ClientSampleId :

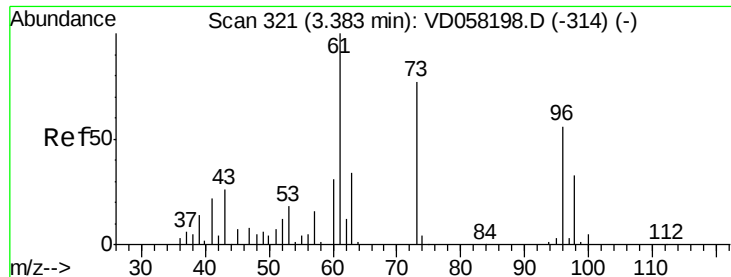
Tot Ion: 43 Resp: 8874
Ion Ratio Lower Upper
43 100
74 20.4 11.7 17.5#



#20
Methylene Chloride
Concen: 6.65 ug/l
RT: 3.09 min Scan# 291
Delta R.T. 0.03 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

Tgt Ion: 84 Resp: 35014
Ion Ratio Lower Upper
84 100
49 181.9 145.0 217.6
51 63.9 42.9 64.3
86 65.6 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 31.49 ug/l

RT: 3.40 min Scan# 323

Delta R.T. 0.02 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

ClientSampleId :

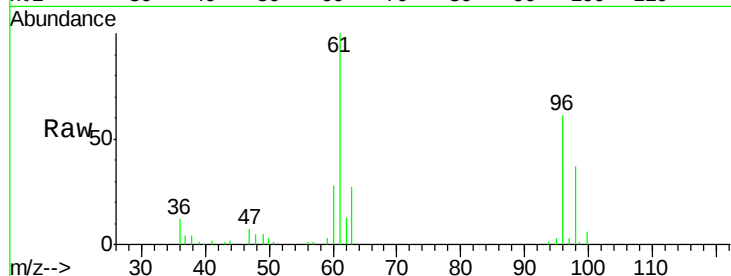
Tot Ion: 96 Resp: 106509

Ion Ratio Lower Upper

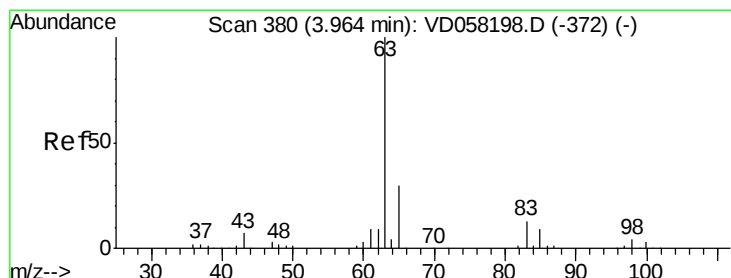
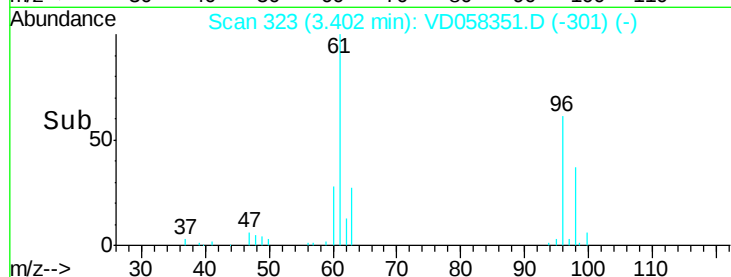
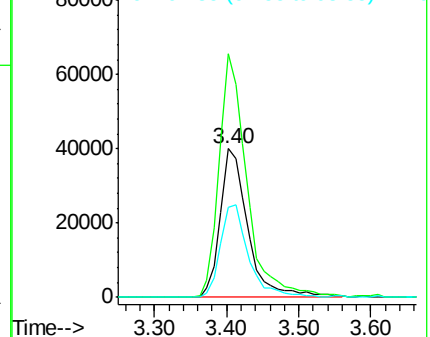
96 100

61 163.6 143.8 215.6

98 60.4 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: 4.54 ug/l

RT: 3.99 min Scan# 383

Delta R.T. 0.03 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

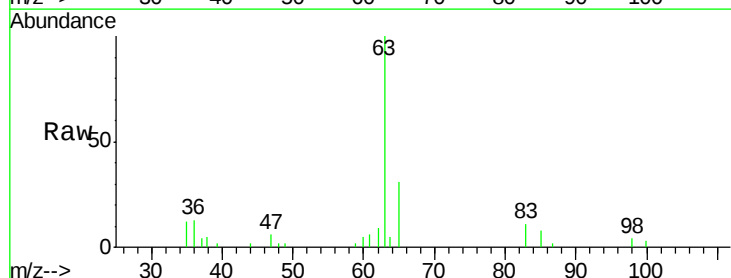
Tgt Ion: 63 Resp: 69915

Ion Ratio Lower Upper

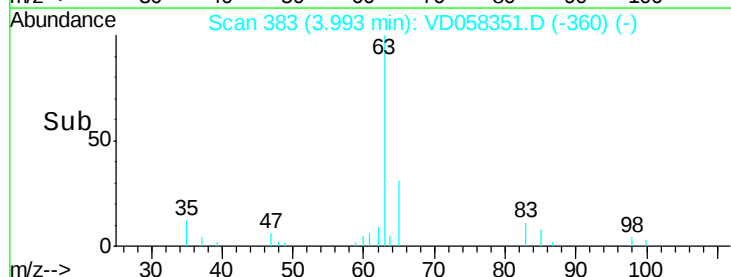
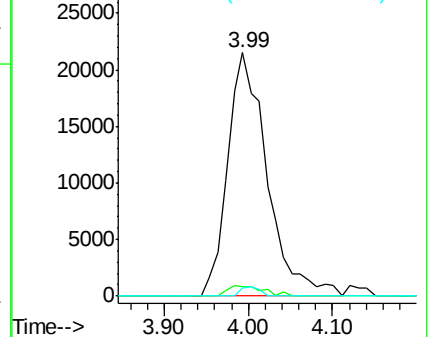
63 100

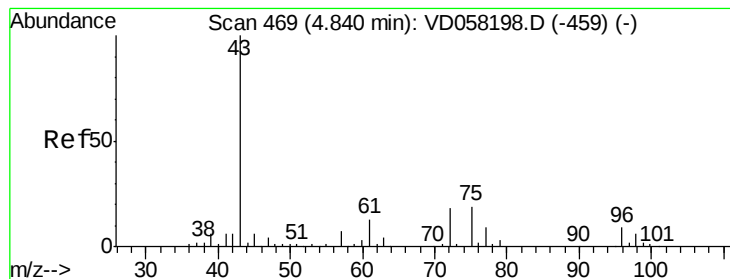
98 3.7 1.9 5.7

100 3.1 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





#25

2-Butanone

Concen: 7.69 ug/l

RT: 4.87 min Scan# 472

Delta R.T. 0.03 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

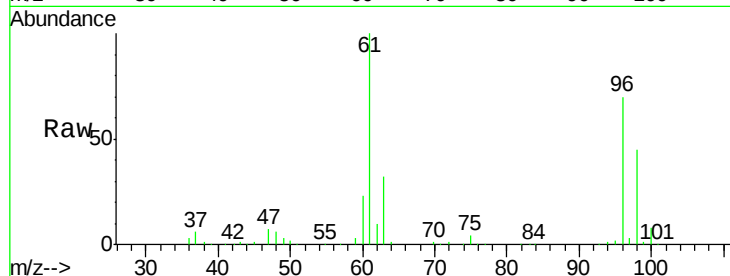
ClientSampleId :

Tot Ion: 43 Resp: 20868

Ion Ratio Lower Upper

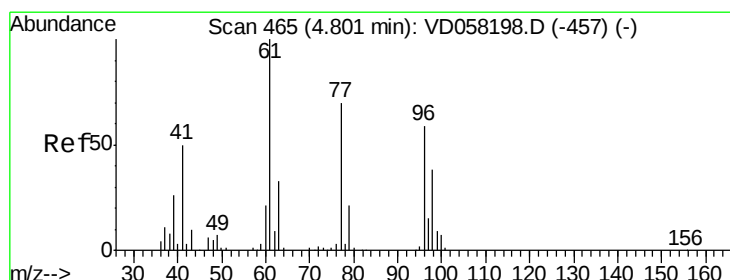
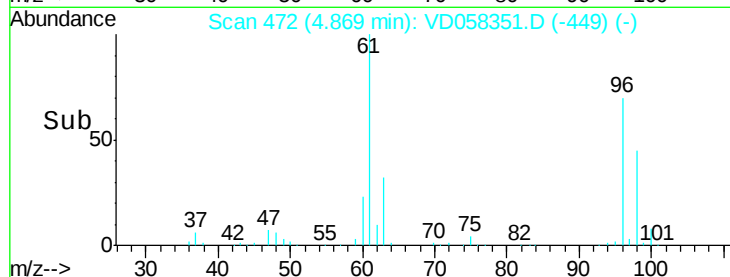
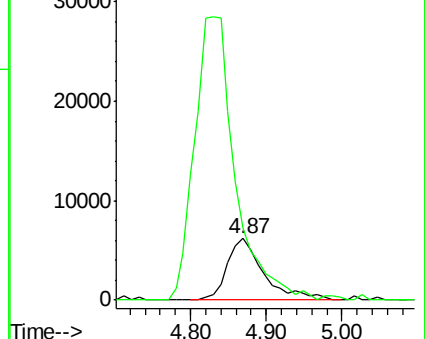
43 100

72 116.5 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 999.17 ug/l

RT: 4.83 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

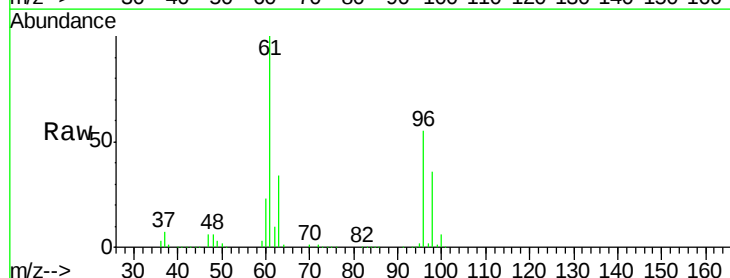
Tgt Ion: 96 Resp: 8445313

Ion Ratio Lower Upper

96 100

61 182.7 0.0 338.6

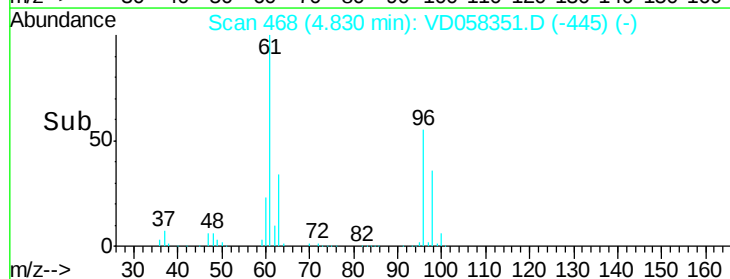
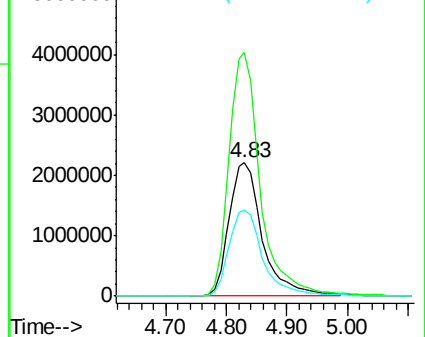
98 65.0 0.0 130.2

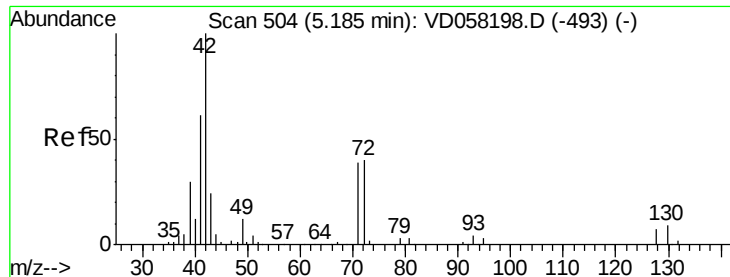


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

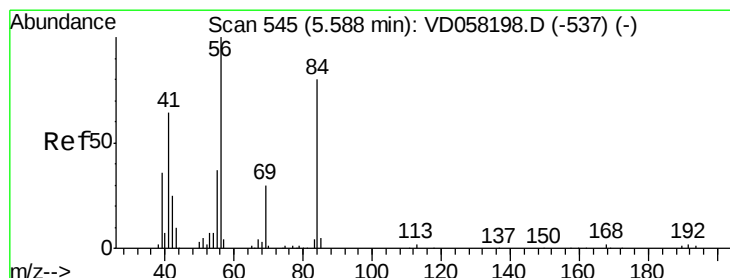
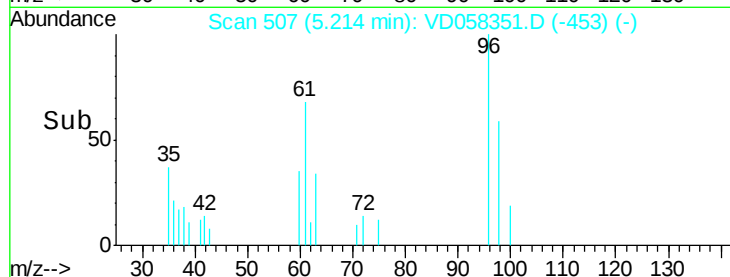
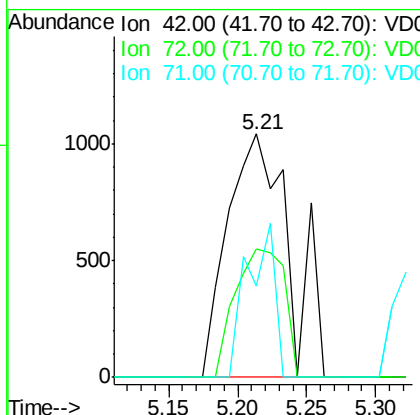
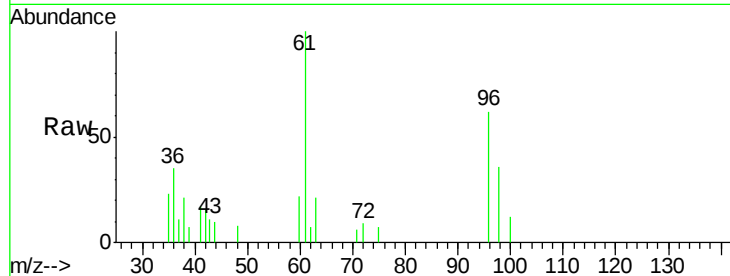




#29
Tetrahydrofuran
Concen: 2.25 ug/l
RT: 5.21 min Scan# 507
Delta R.T. 0.03 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

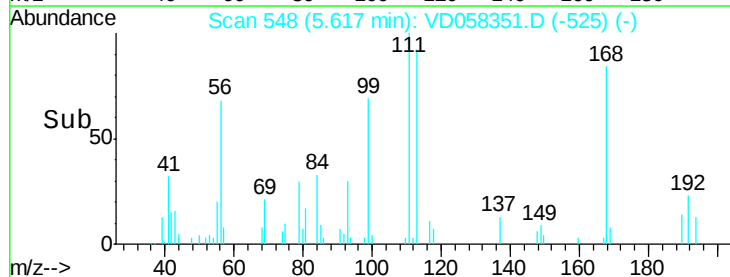
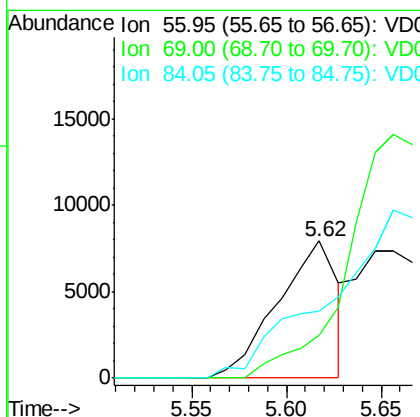
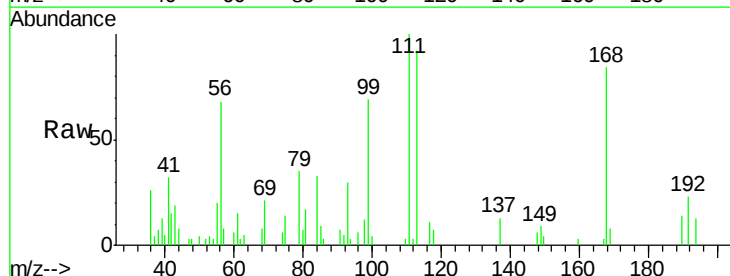
Instrument :
MSVOA_D
ClientSampleId :

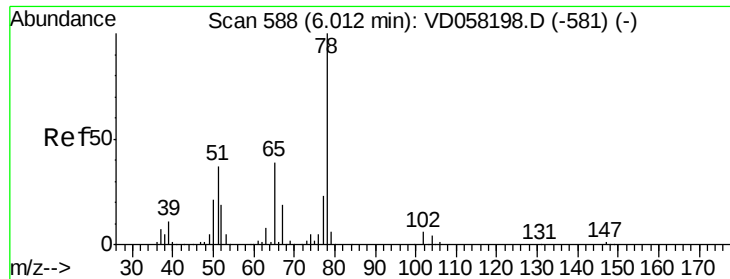
Tot Ion: 42 Resp: 3247
Ion Ratio Lower Upper
42 100
72 0.0 30.2 45.2#
71 28.5 30.1 45.1#



#31
Cyclohexane
Concen: Below Cal
RT: 5.62 min Scan# 548
Delta R.T. 0.03 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

Tgt Ion: 56 Resp: 17520
Ion Ratio Lower Upper
56 100
69 30.9 23.6 35.4
84 49.2 65.2 97.8#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.03 min Scan# 590

Delta R.T. 0.02 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

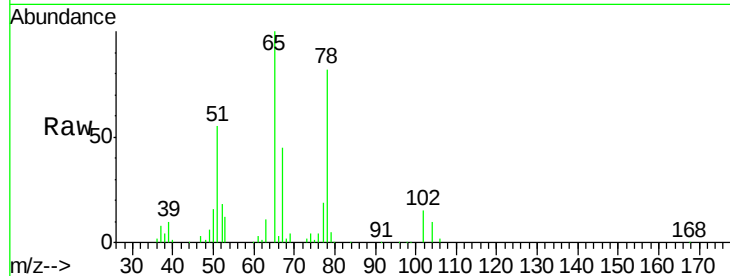
ClientSampleId :

Tot Ion: 65 Resp: 330878

Ion Ratio Lower Upper

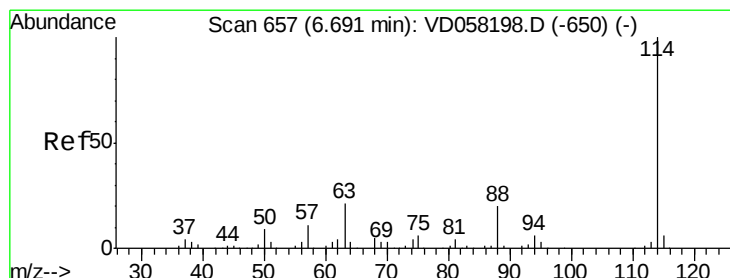
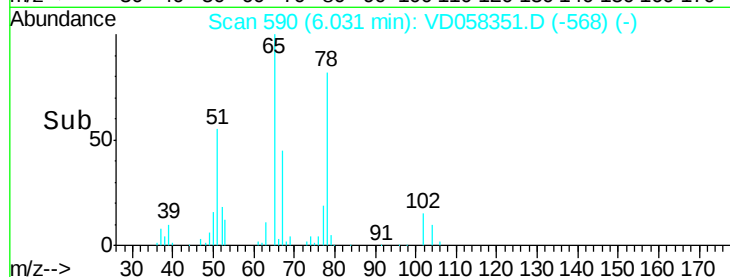
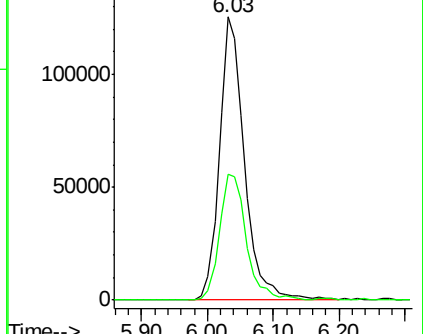
65 100

67 44.6 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: 6.71 min Scan# 659

Delta R.T. 0.02 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

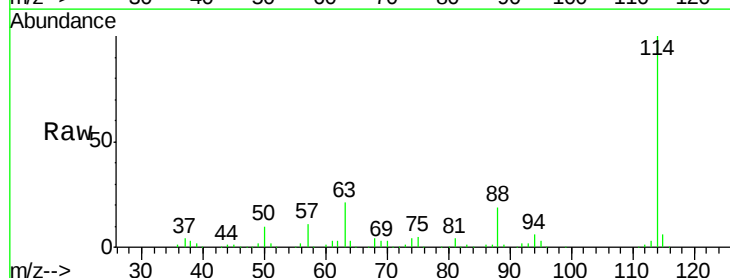
Tgt Ion: 114 Resp: 1179239

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

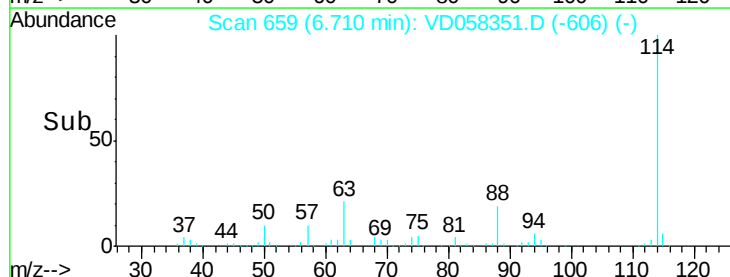
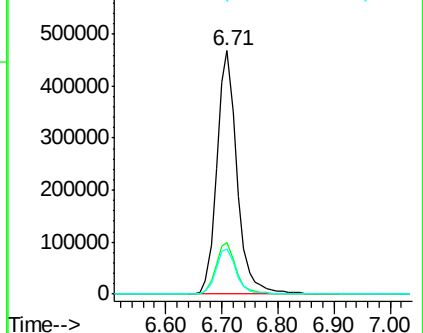
88 18.5 0.0 40.6

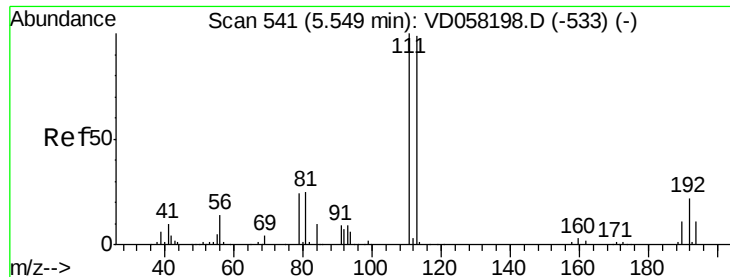


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

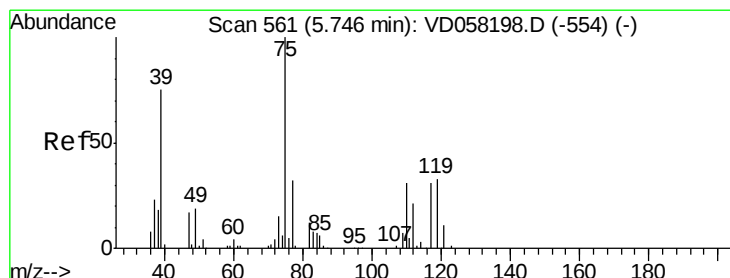
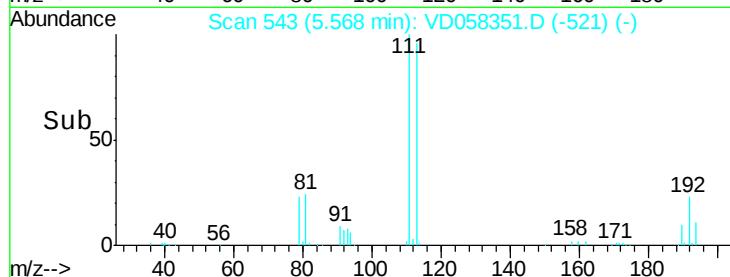
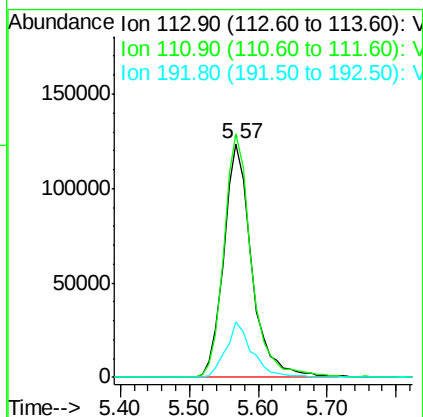
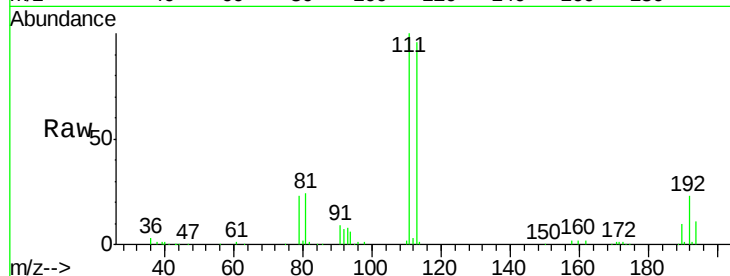




#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 5.57 min Scan# 543
Delta R.T. 0.02 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

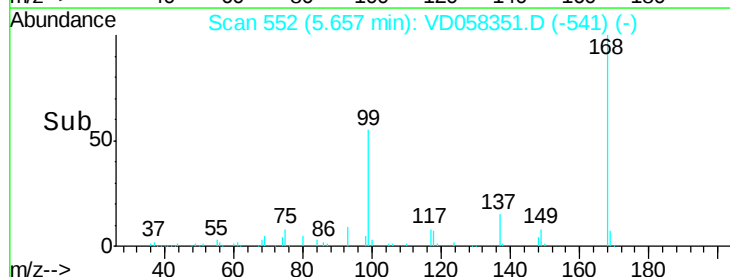
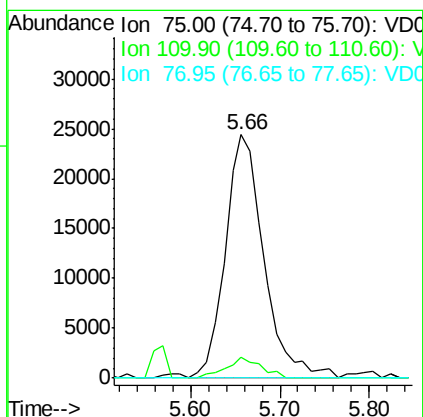
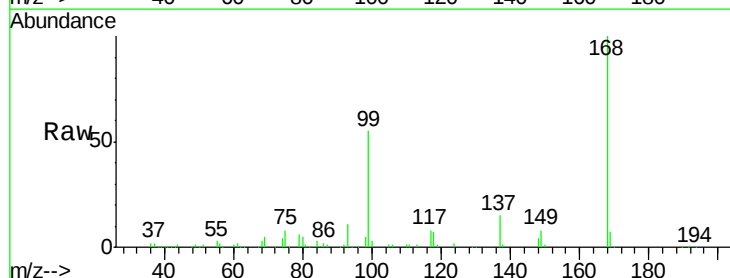
Instrument :
MSVOA_D
ClientSampleId :

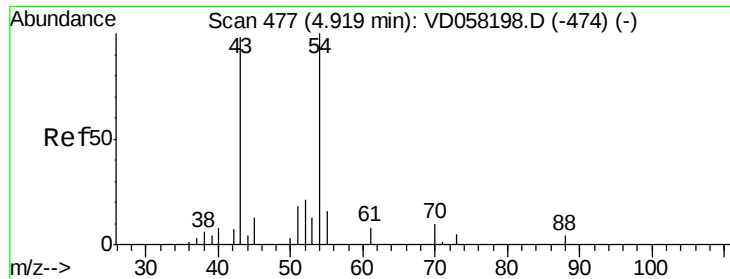
Tot Ion:113 Resp: 347045
Ion Ratio Lower Upper
113 100
111 104.1 80.6 121.0
192 23.8 17.8 26.6



#36
1,1-Dichloropropene
Concen: 6.32 ug/l
RT: 5.66 min Scan# 552
Delta R.T. -0.09 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

Tgt Ion: 75 Resp: 73736
Ion Ratio Lower Upper
75 100
110 8.7 15.4 46.4#
77 0.0 25.4 38.2#

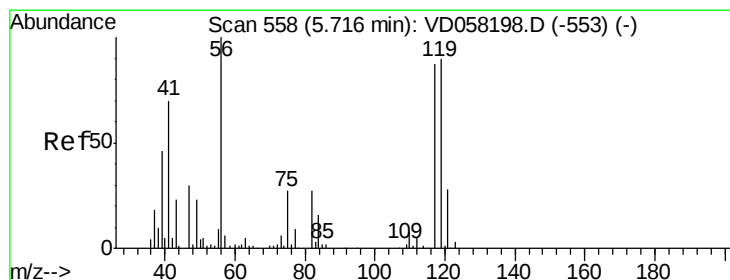
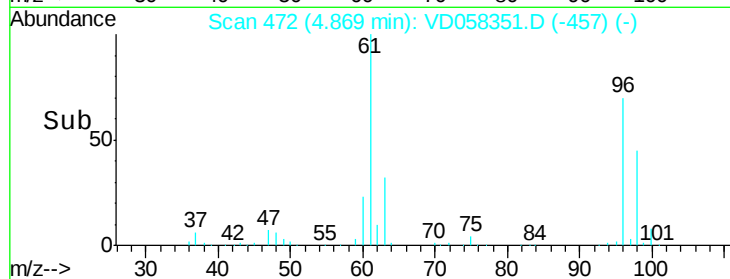
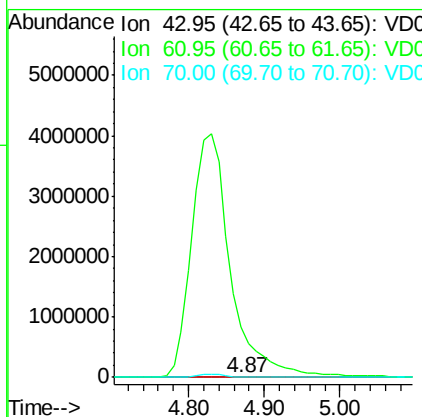
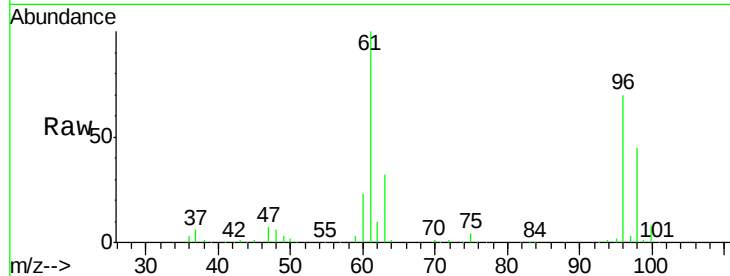




#37
Ethyl Acetate
Concen: 3.14 ug/l
RT: 4.87 min Scan# 472
Delta R.T. -0.05 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

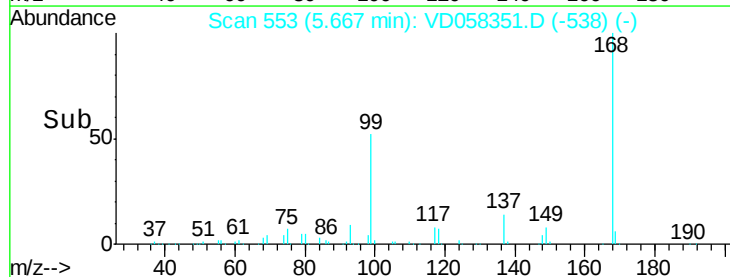
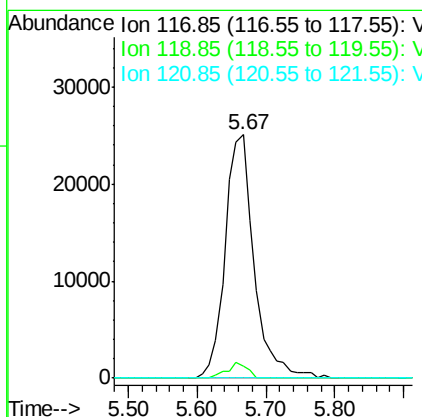
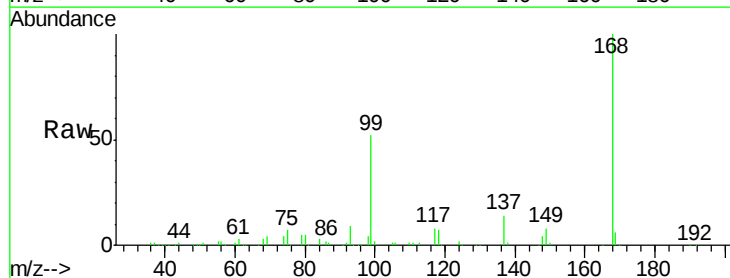
Instrument :
MSVOA_D
ClientSampled :

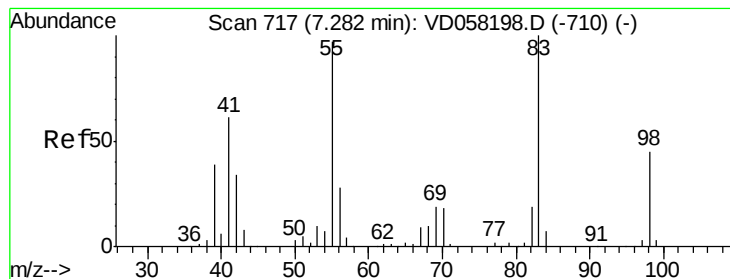
Tot Ion: 43 Resp: 20868
Ion Ratio Lower Upper
43 100
61 13585.1 10.3 15.5#
70 134.7 5.7 8.5#



#38
Carbon Tetrachloride
Concen: 6.27 ug/l
RT: 5.67 min Scan# 553
Delta R.T. -0.05 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

Tgt Ion: 117 Resp: 72715
Ion Ratio Lower Upper
117 100
119 5.1 78.8 118.2#
121 0.0 25.0 37.6#





#39

Methvlcvclohexane

Concen: 11.55 ug/l

RT: 7.30 min Scan# 719

Delta R.T. 0.02 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

ClientSampleId :

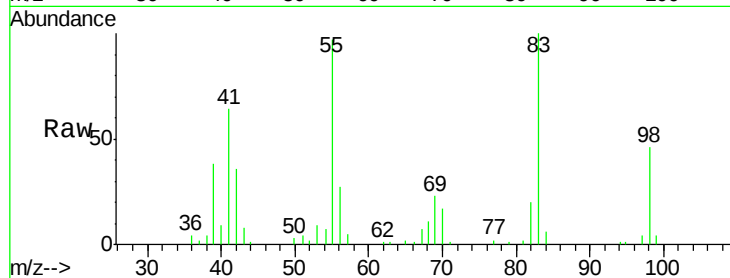
Tot Ion: 83 Resp: 131284

Ion Ratio Lower Upper

83 100

55 97.1 77.4 116.2

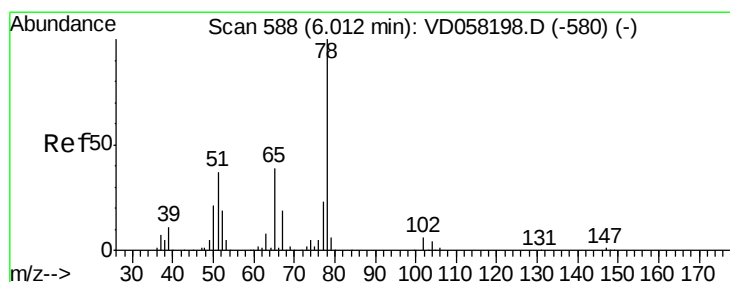
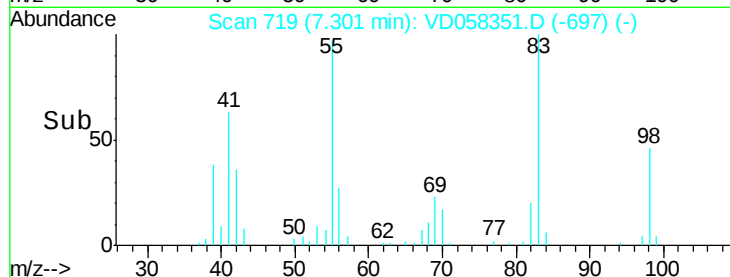
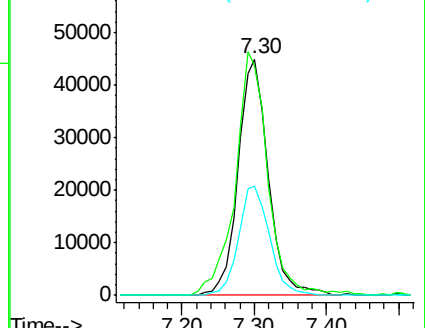
98 46.4 35.9 53.9



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: 10.18 ug/l

RT: 6.03 min Scan# 590

Delta R.T. 0.02 min

Lab File: VD058351.D

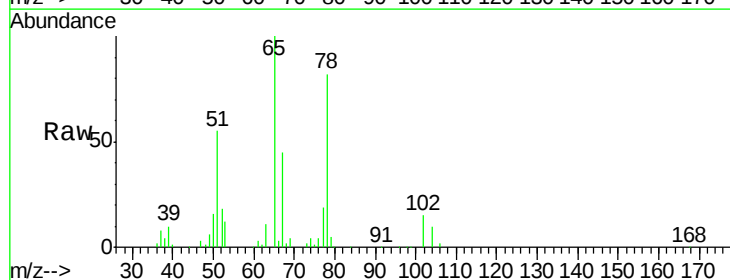
Acq: 23 Jun 2018 20:04

Tgt Ion: 78 Resp: 282795

Ion Ratio Lower Upper

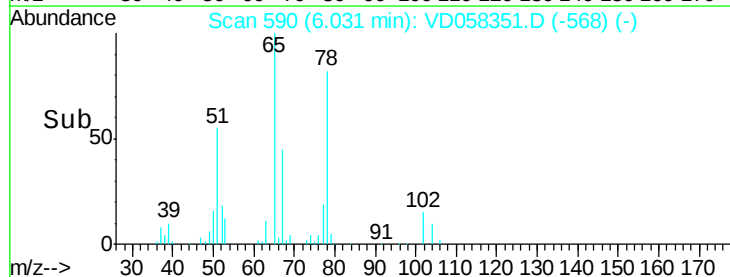
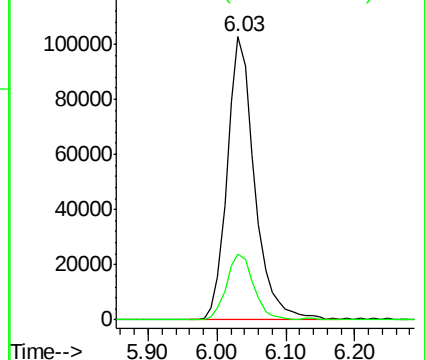
78 100

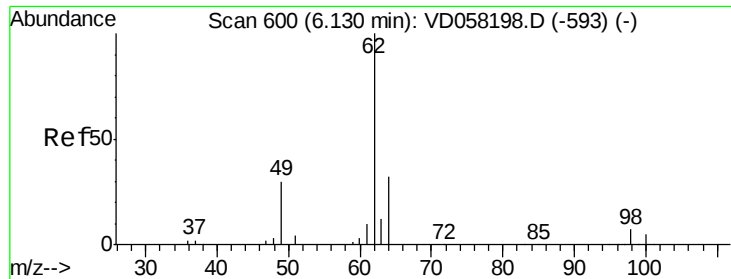
77 23.3 18.5 27.7



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#42

1,2-Dichloroethane

Concen: 1.72 ug/l

RT: 6.14 min Scan# 601

Delta R.T. 0.01 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

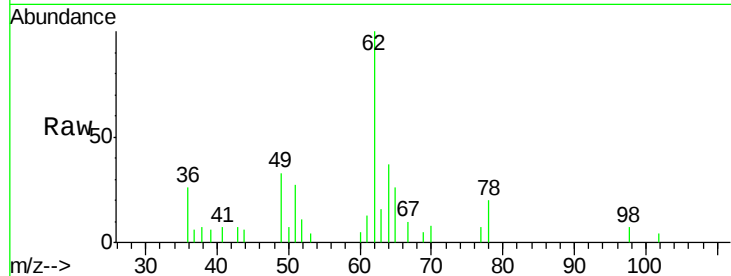
ClientSampleId :

Tot Ion: 62 Resp: 19248

Ion Ratio Lower Upper

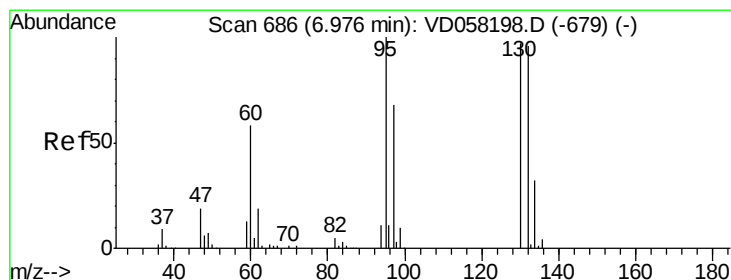
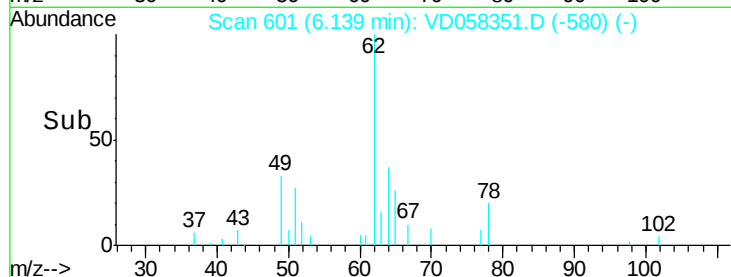
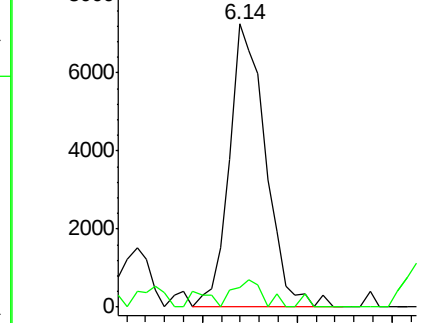
62 100

98 6.9 0.0 13.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#44

Trichloroethene

Concen: 29.90 ug/l

RT: 7.00 min Scan# 688

Delta R.T. 0.02 min

Lab File: VD058351.D

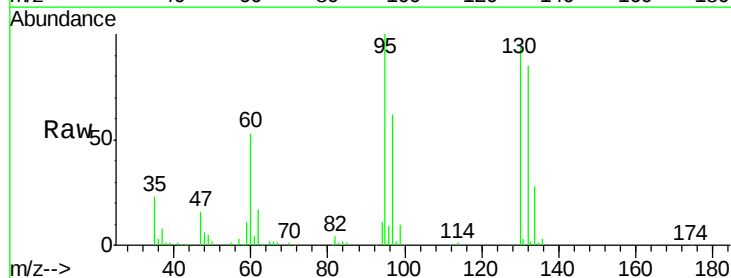
Acq: 23 Jun 2018 20:04

Tgt Ion:130 Resp: 249512

Ion Ratio Lower Upper

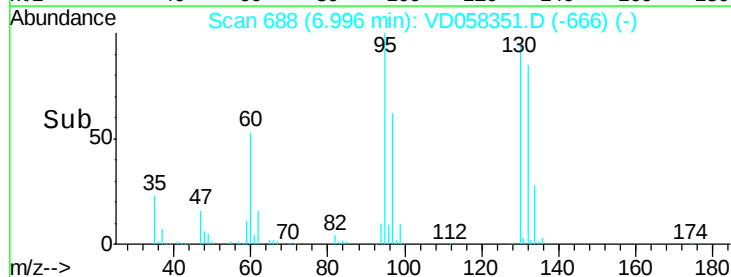
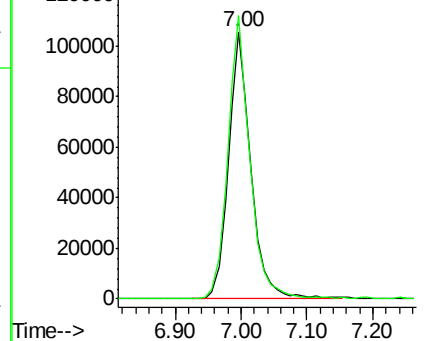
130 100

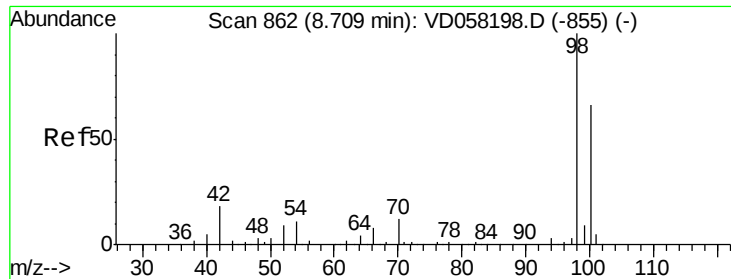
95 105.9 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

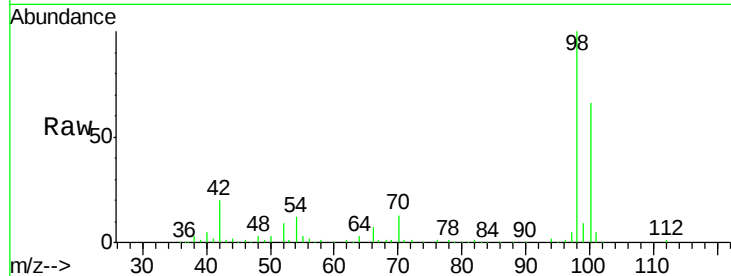
ClientSampleId :

Tot Ion: 98 Resp: 823685

Ion Ratio Lower Upper

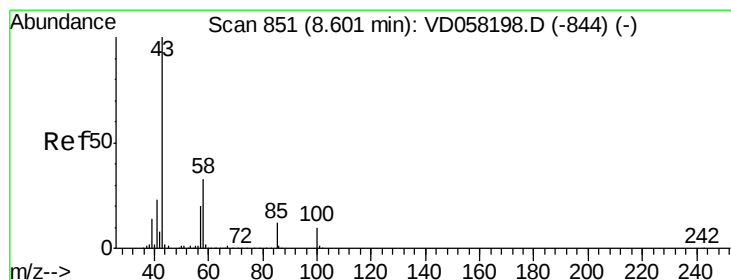
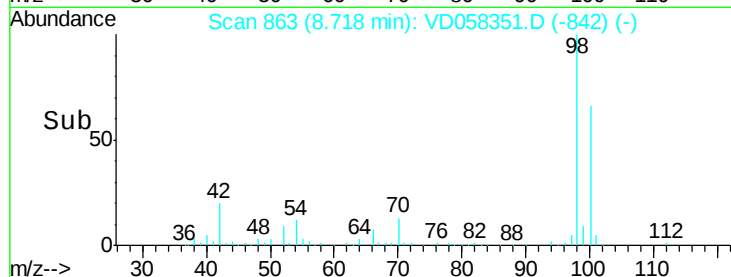
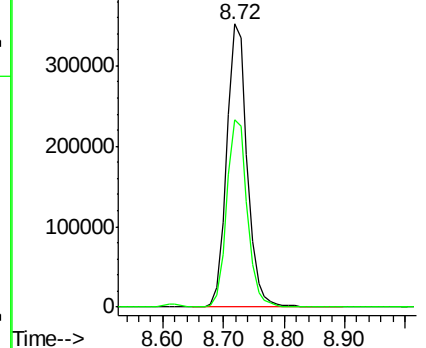
98 100

100 66.2 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: 14.11 ug/l

RT: 8.61 min Scan# 852

Delta R.T. 0.01 min

Lab File: VD058351.D

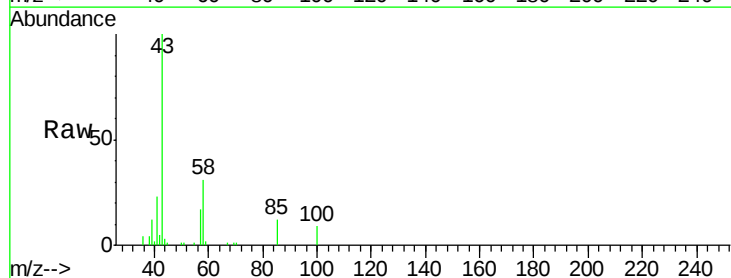
Acq: 23 Jun 2018 20:04

Tgt Ion: 43 Resp: 81549

Ion Ratio Lower Upper

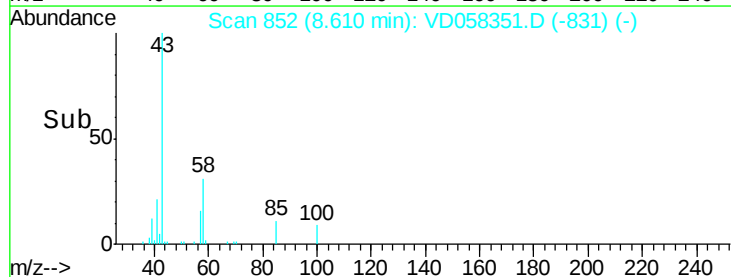
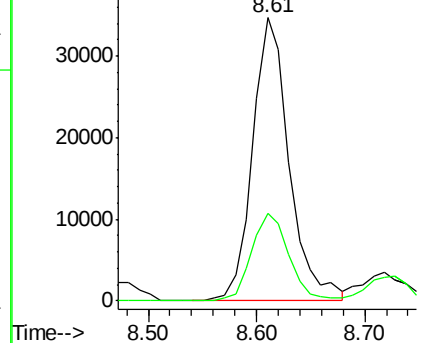
43 100

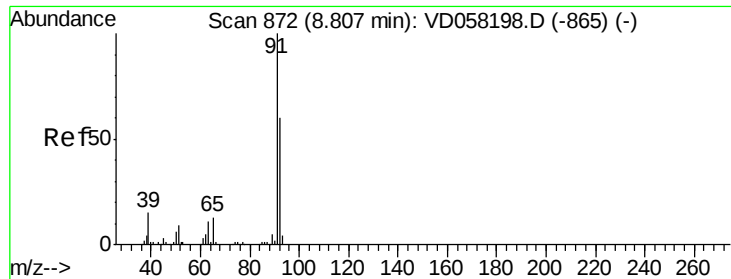
58 30.8 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 123.00 ug/l

RT: 8.82 min Scan# 873

Delta R.T. 0.01 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

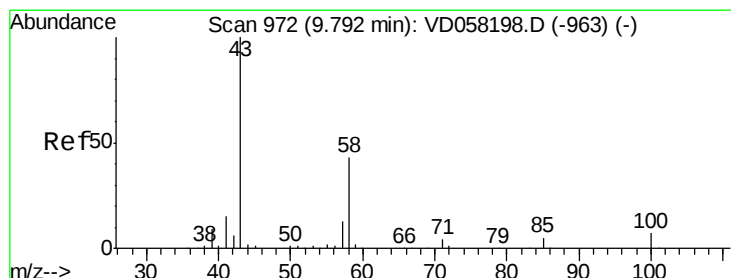
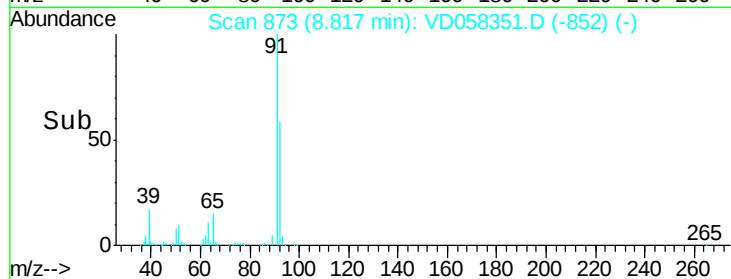
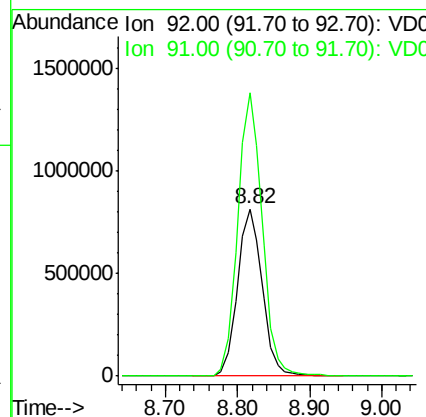
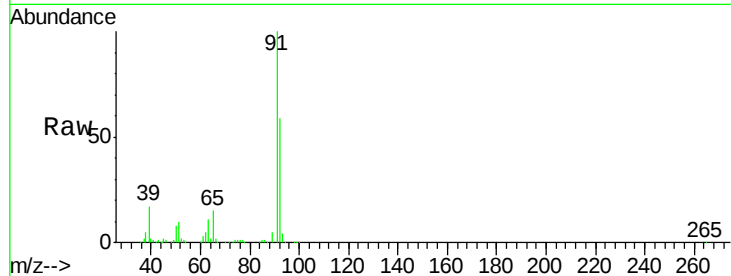
ClientSampleId :

Tot Ion: 92 Resp: 1946301

Ion Ratio Lower Upper

92 100

91 169.1 133.2 199.8



#59

2-Hexanone

Concen: 1.86 ug/l

RT: 9.74 min Scan# 967

Delta R.T. -0.05 min

Lab File: VD058351.D

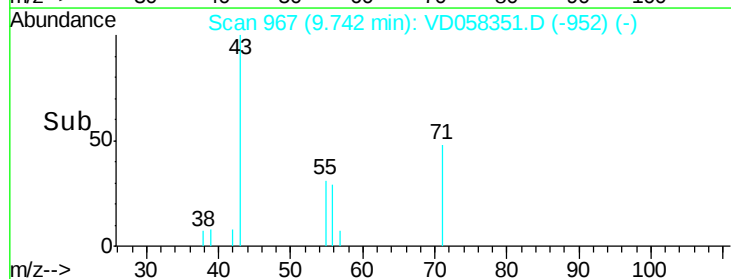
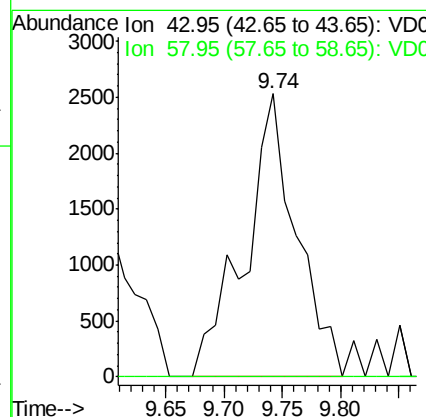
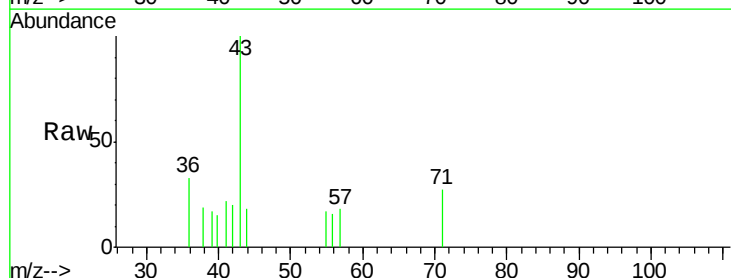
Acq: 23 Jun 2018 20:04

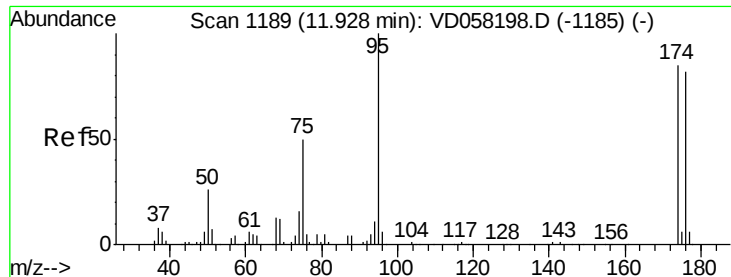
Tgt Ion: 43 Resp: 7756

Ion Ratio Lower Upper

43 100

58 0.0 21.7 65.1#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

ClientSampleId :

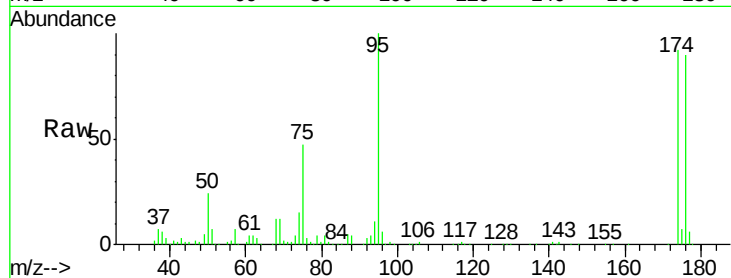
Tot Ion: 95 Resp: 335584

Ion Ratio Lower Upper

95 100

174 92.4 0.0 170.2

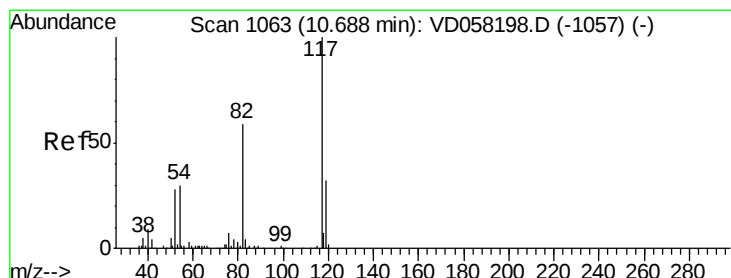
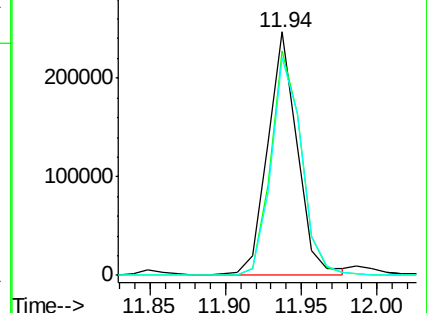
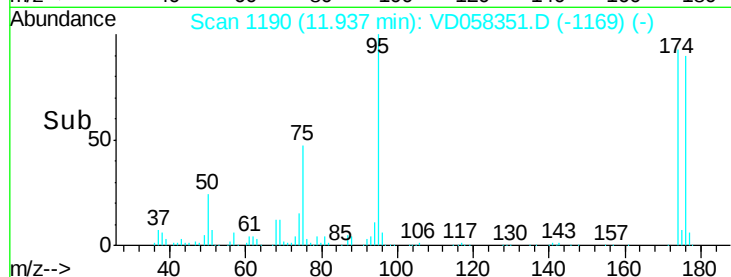
176 89.7 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.70 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

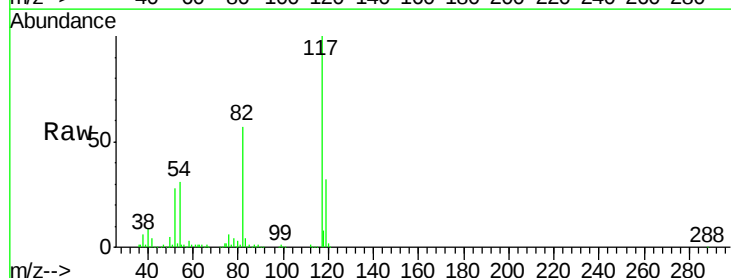
Tgt Ion: 117 Resp: 914822

Ion Ratio Lower Upper

117 100

82 56.5 47.0 70.6

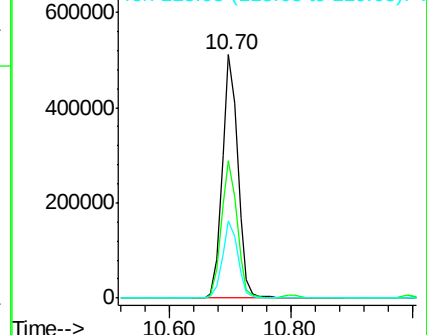
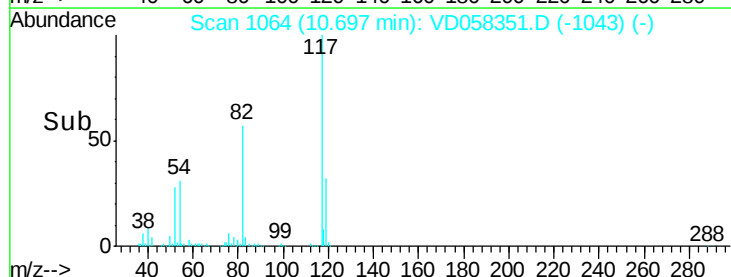
119 31.5 25.3 37.9

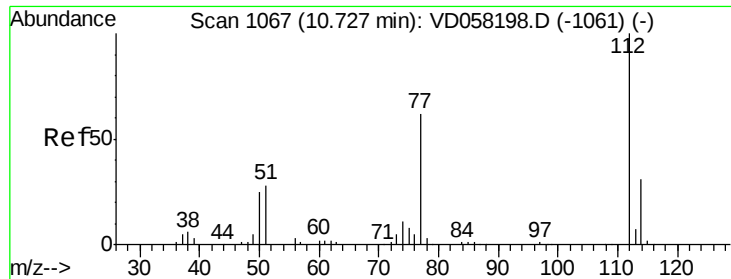


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

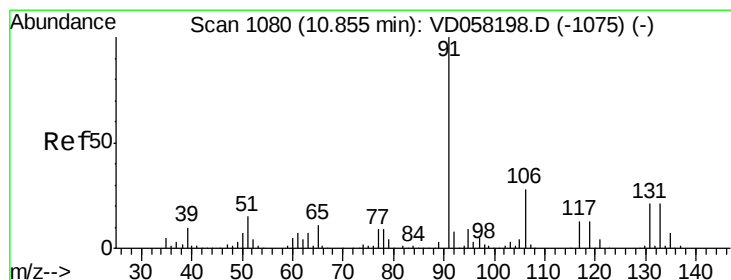
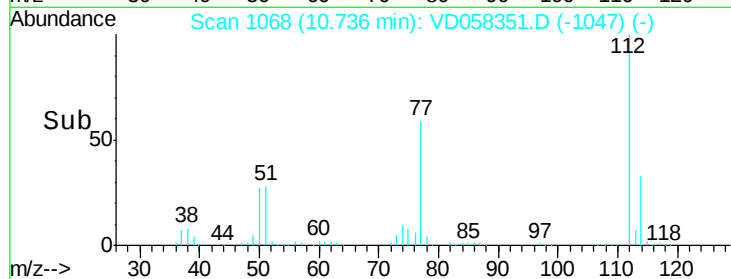
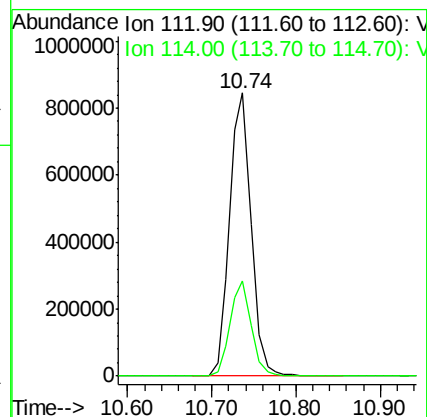
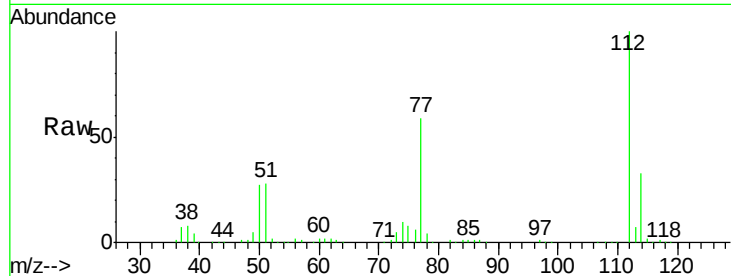




#65
Chlorobenzene
Concen: 88.11 ug/l
RT: 10.74 min Scan# 1068
Delta R.T. 0.01 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

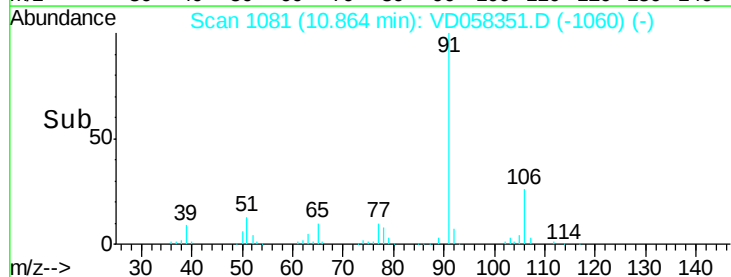
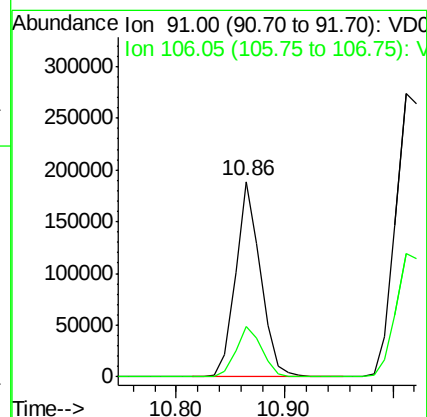
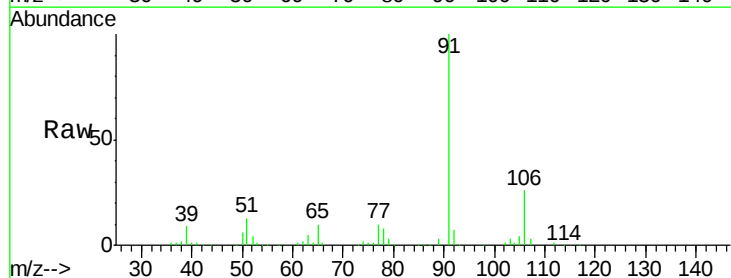
Instrument :
MSVOA_D
ClientSampleId :

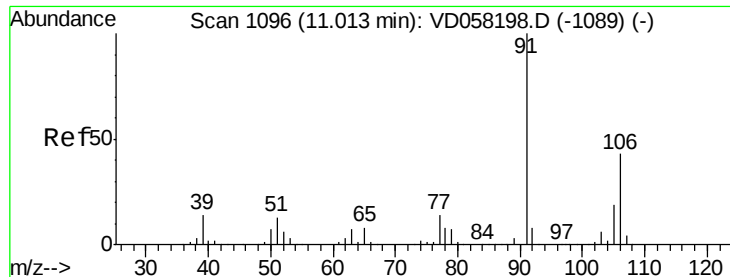
Tot Ion:112 Resp: 1507792
Ion Ratio Lower Upper
112 100
114 33.4 25.0 37.4



#67
Ethyl Benzene
Concen: 10.00 ug/l
RT: 10.86 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

Tgt Ion: 91 Resp: 302079
Ion Ratio Lower Upper
91 100
106 25.9 22.0 33.0

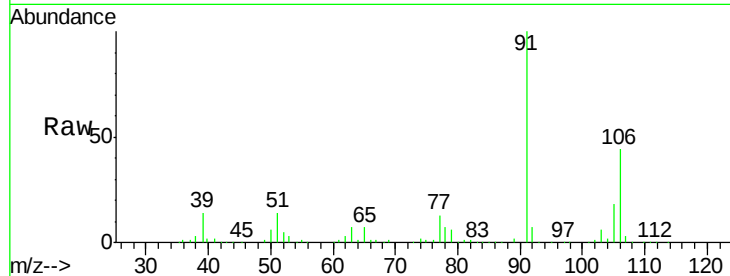




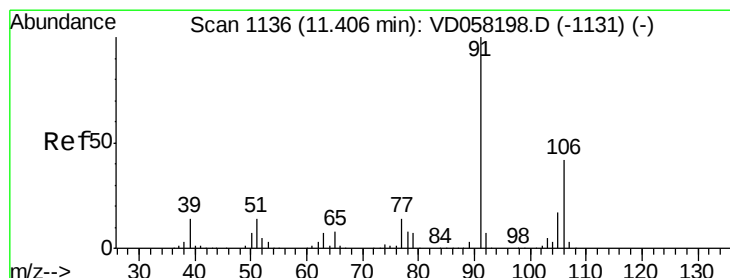
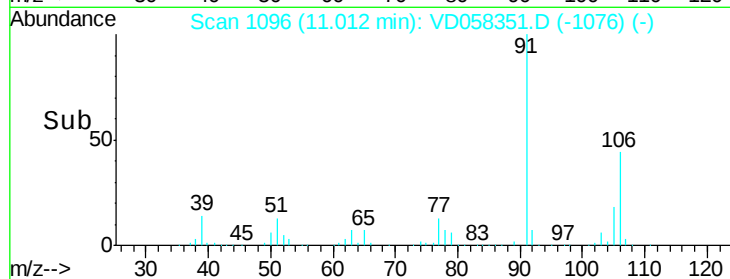
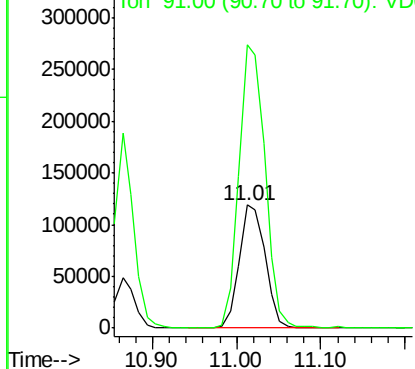
#68
m/p-Xylenes
Concen: 25.50 ug/l
RT: 11.01 min Scan# 1096
Delta R.T. -0.00 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 256936
Ion Ratio Lower Upper
106 100
91 229.8 185.0 277.6

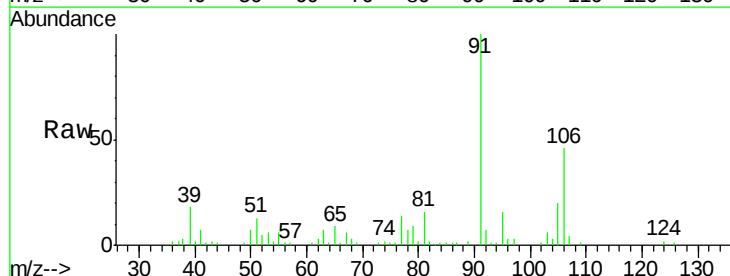


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

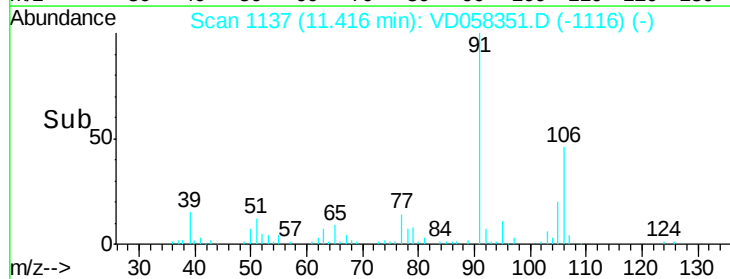
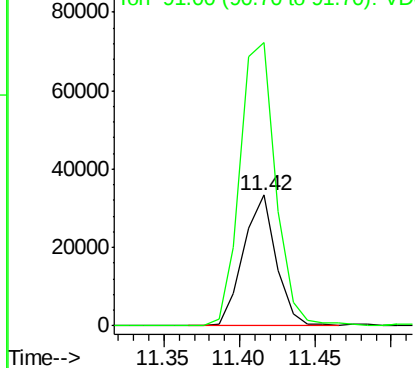


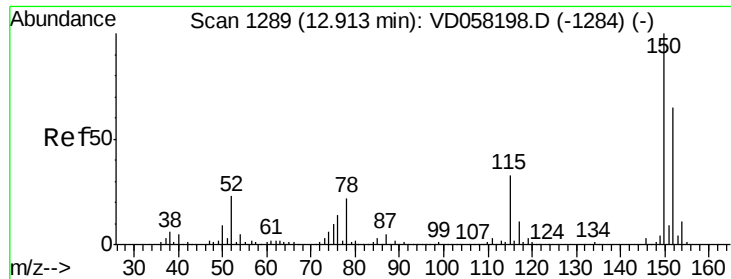
#69
o-Xylene
Concen: 5.21 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. 0.01 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

Tgt Ion:106 Resp: 50156
Ion Ratio Lower Upper
106 100
91 216.6 120.2 360.6



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: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

ClientSampleId :

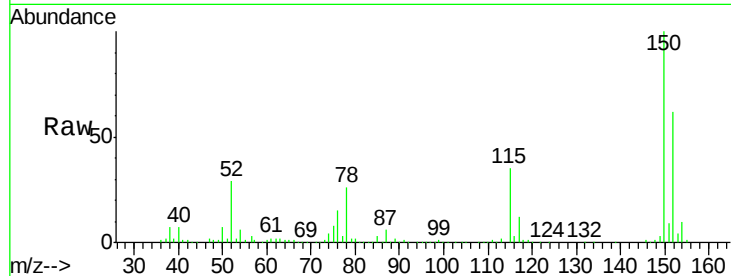
Tot Ion:152 Resp: 464588

Ion Ratio Lower Upper

152 100

115 57.1 25.1 75.3

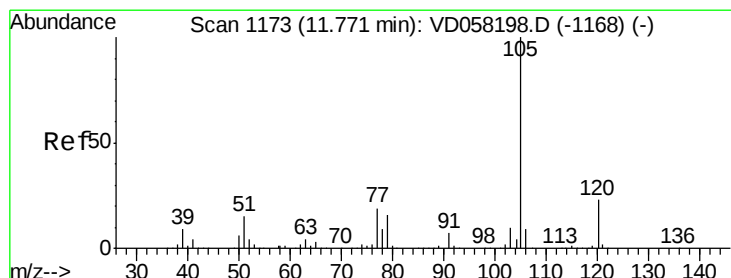
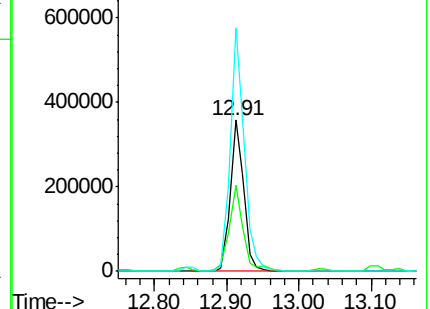
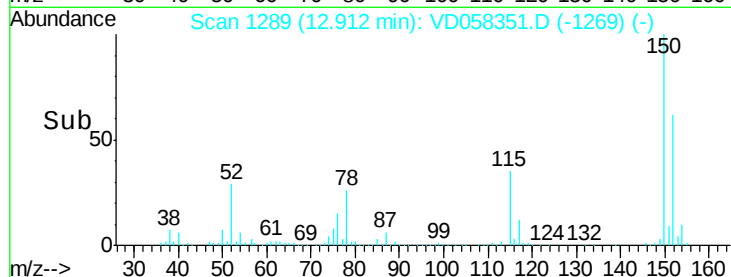
150 161.4 0.0 308.8



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: 5.89 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058351.D

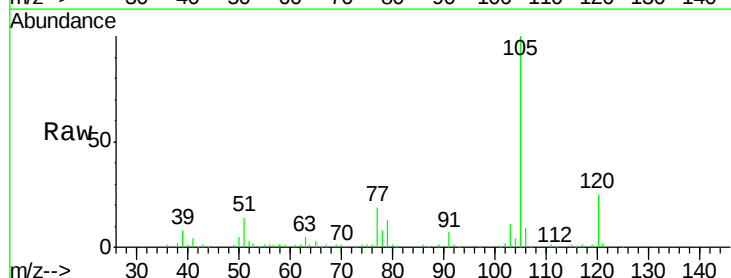
Acq: 23 Jun 2018 20:04

Tgt Ion:105 Resp: 163748

Ion Ratio Lower Upper

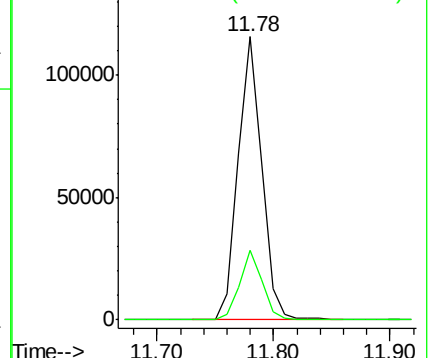
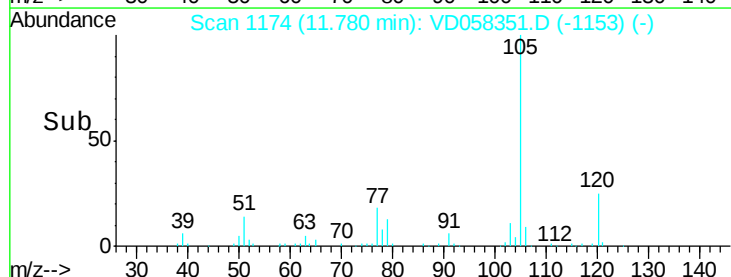
105 100

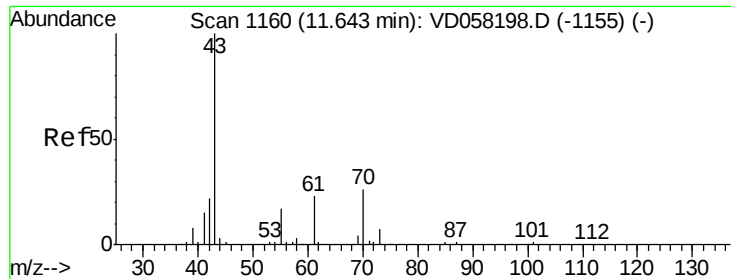
120 24.8 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

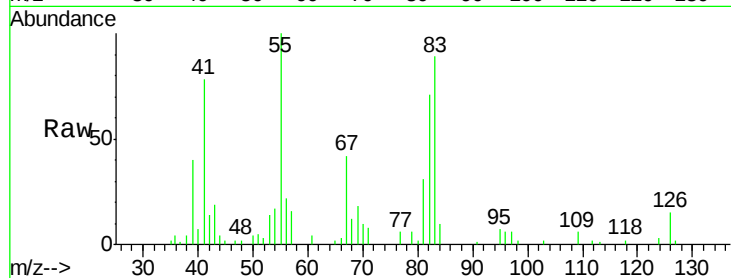




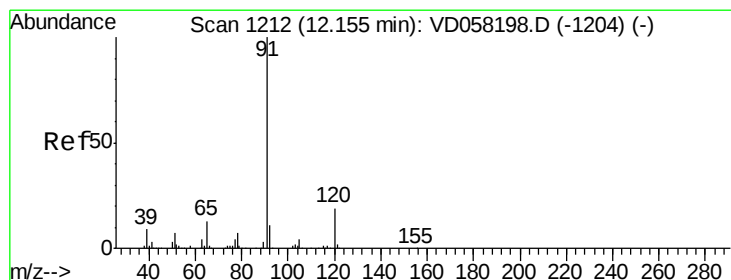
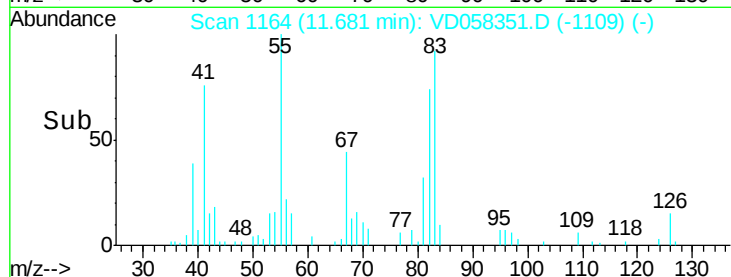
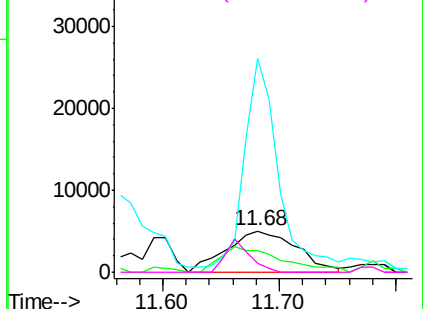
#74
N-amvl acetate
Concen: 1.96 ug/l
RT: 11.68 min Scan# 1164
Delta R.T. 0.04 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 21015
Ion Ratio Lower Upper
43 100
70 52.9 20.9 31.3#
55 519.9 13.5 20.3#
61 20.5 18.2 27.2

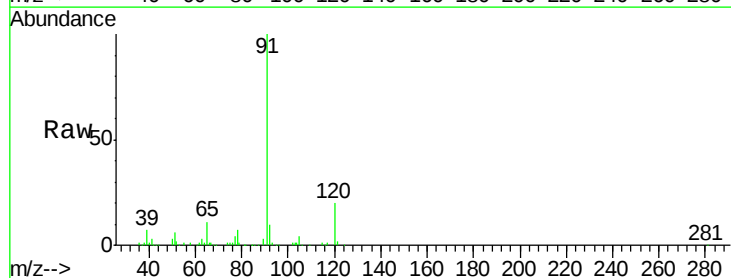


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 60.95 (60.65 to 61.65): VDC

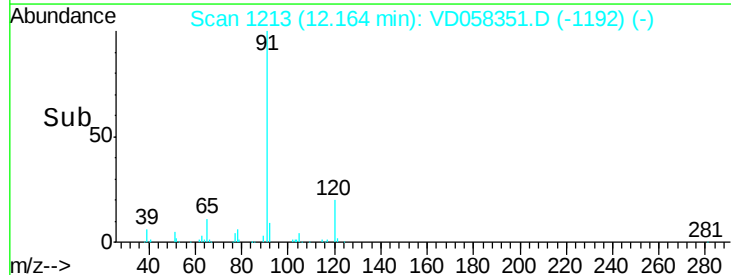
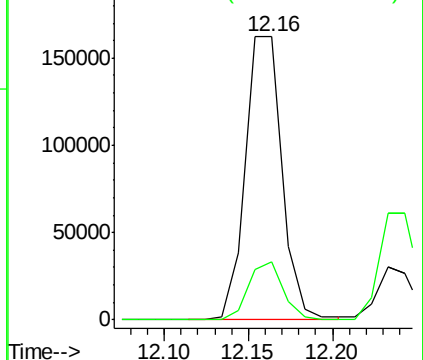


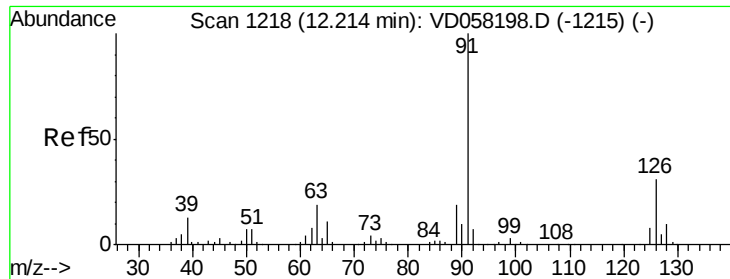
#78
n-propylbenzene
Concen: 6.85 ug/l
RT: 12.16 min Scan# 1213
Delta R.T. 0.01 min
Lab File: VD058351.D
Acq: 23 Jun 2018 20:04

Tgt Ion: 91 Resp: 245790
Ion Ratio Lower Upper
91 100
120 20.3 9.7 29.1



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): V

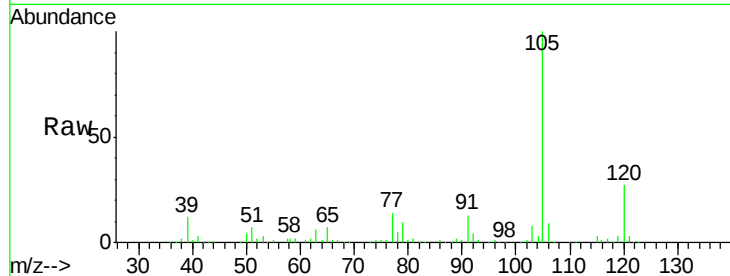




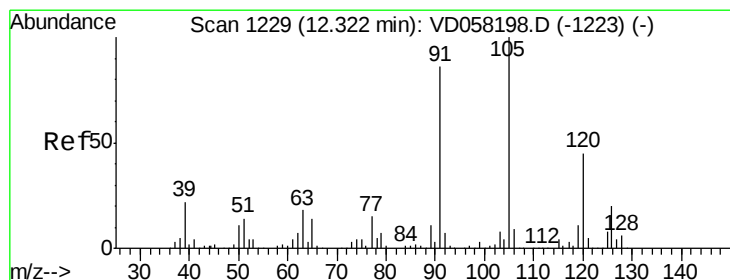
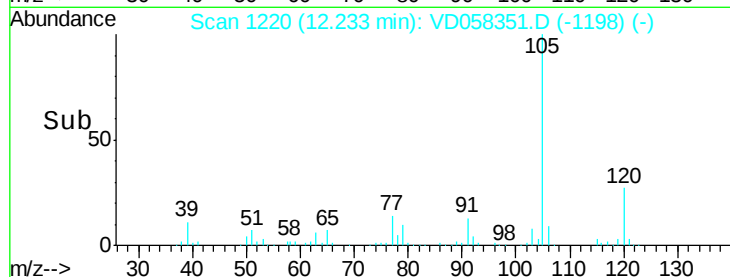
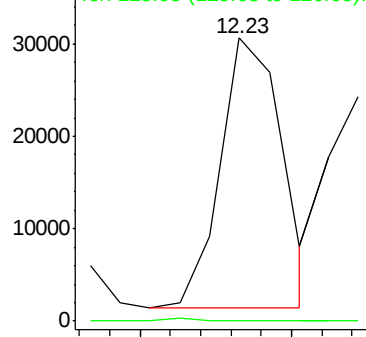
#79
 2-Chlorotoluene
 Concen: 2.00 ug/l
 RT: 12.23 min Scan# 1220
 Delta R.T. 0.02 min
 Lab File: VD058351.D
 Acq: 23 Jun 2018 20:04

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 91 Resp: 41163
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.5#

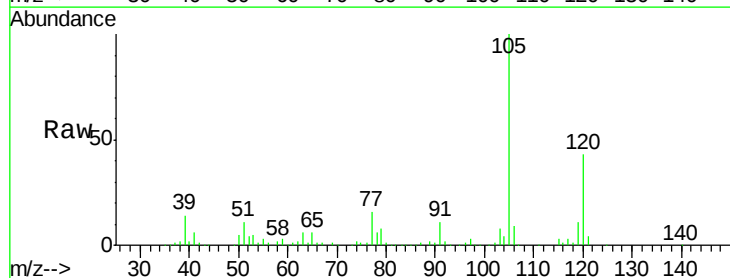


Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 125.95 (125.65 to 126.65): V

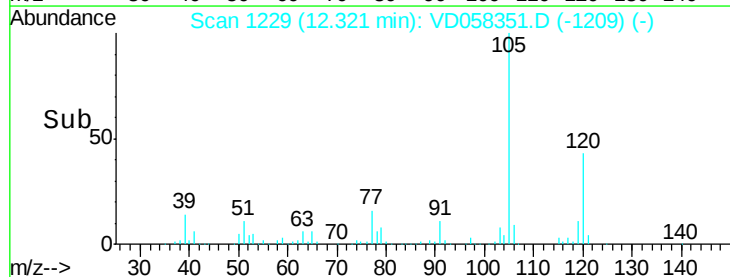
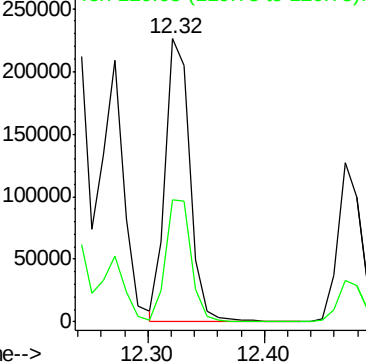


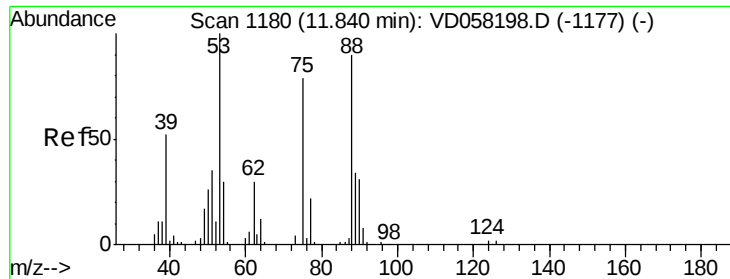
#80
 1,3,5-Trimethylbenzene
 Concen: 15.20 ug/l
 RT: 12.32 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VD058351.D
 Acq: 23 Jun 2018 20:04

Tgt Ion:105 Resp: 329415
 Ion Ratio Lower Upper
 105 100
 120 43.1 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: 97.56 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

ClientSampleId :

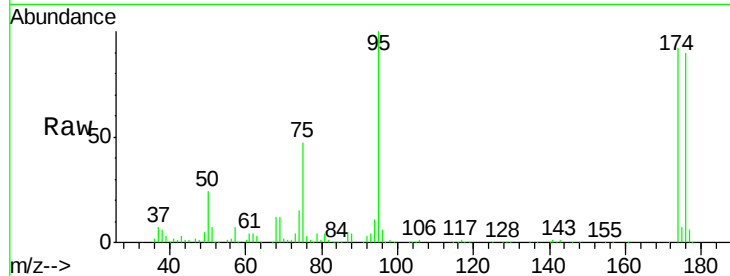
Tot Ion: 75 Resp: 161402

Ion Ratio Lower Upper

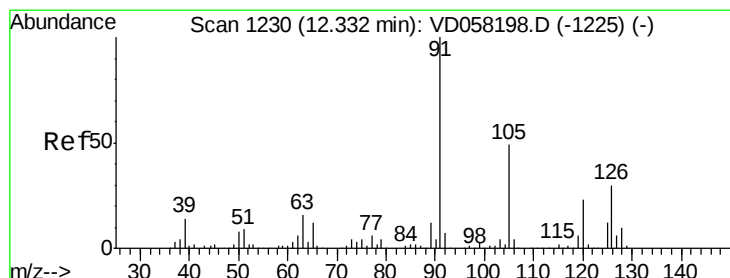
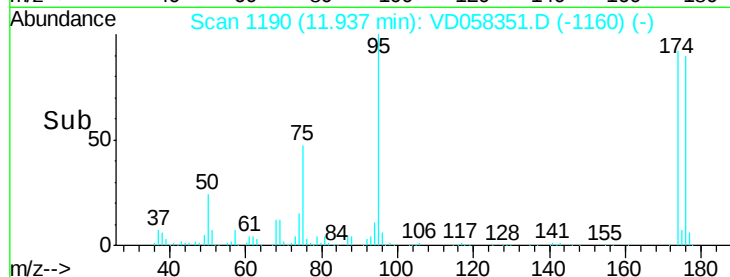
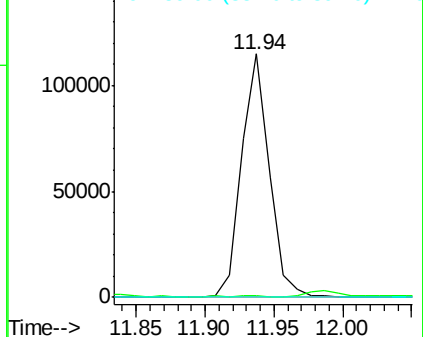
75 100

53 0.6 100.8 151.2#

89 0.0 34.6 52.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.32 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VD058351.D

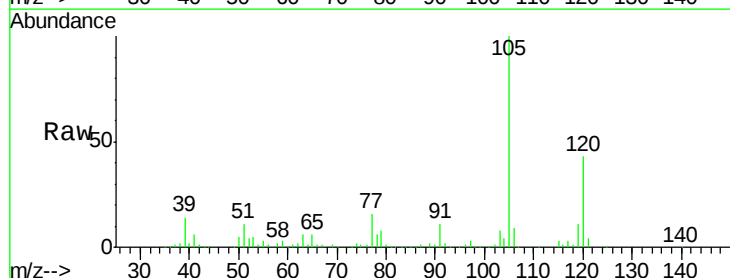
Acq: 23 Jun 2018 20:04

Tgt Ion: 91 Resp: 38492

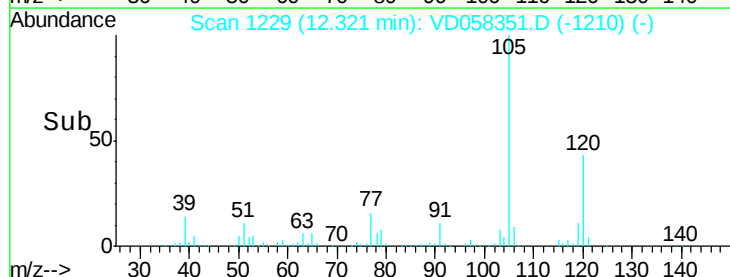
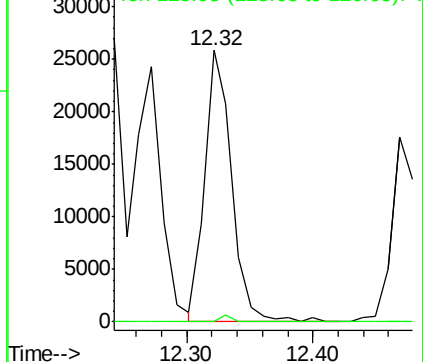
Ion Ratio Lower Upper

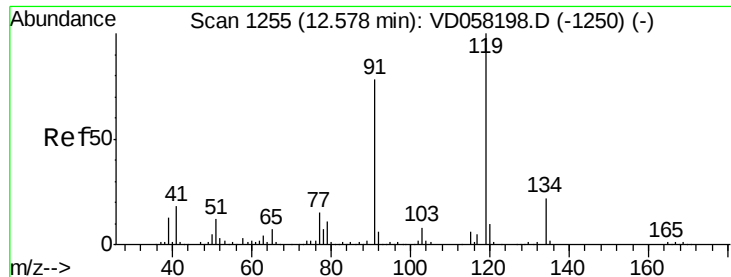
91 100

126 0.0 14.9 44.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 3.32 ug/l

RT: 12.58 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

ClientSampled :

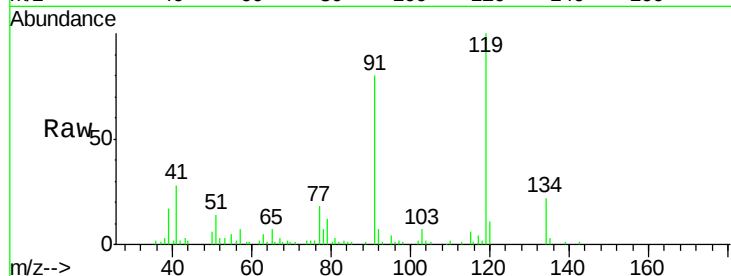
Tot Ion:119 Resp: 82741

Ion Ratio Lower Upper

119 100

91 79.9 38.9 116.6

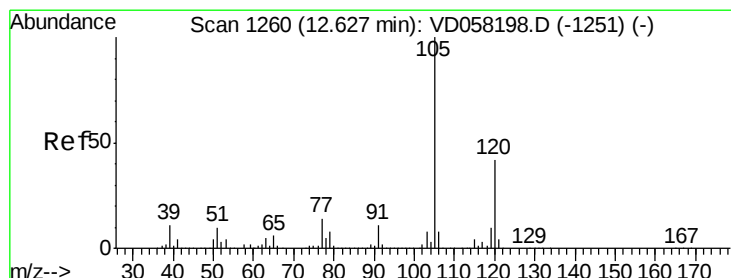
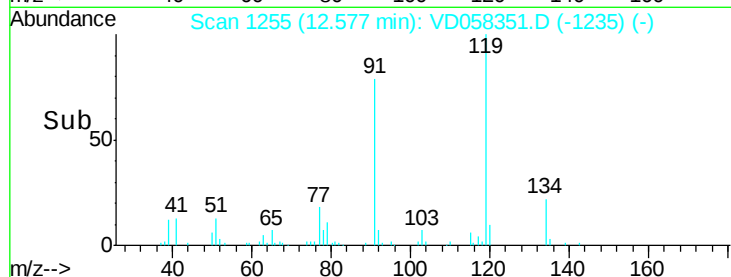
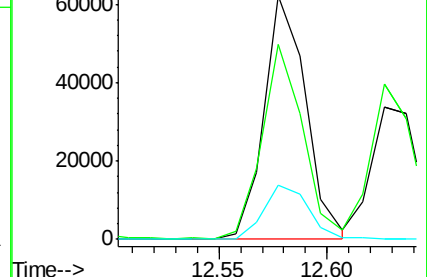
134 22.4 11.2 33.5



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.09 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD058351.D

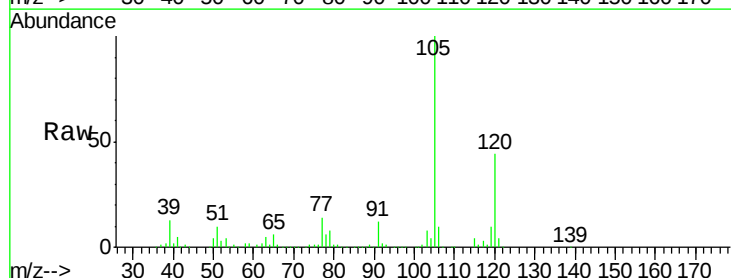
Acq: 23 Jun 2018 20:04

Tgt Ion:105 Resp: 473441

Ion Ratio Lower Upper

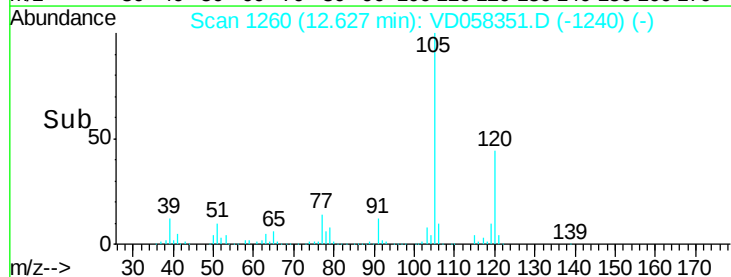
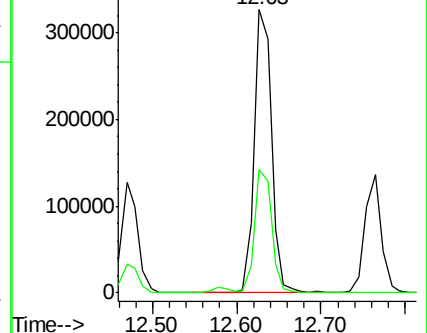
105 100

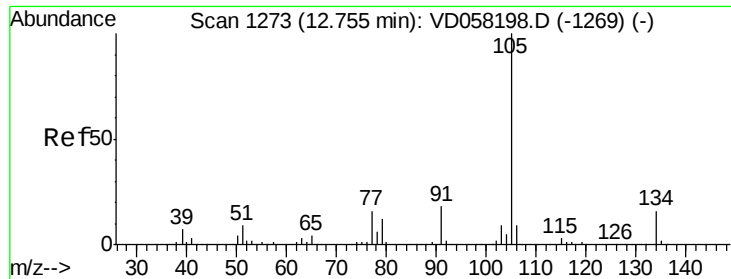
120 43.5 20.8 62.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

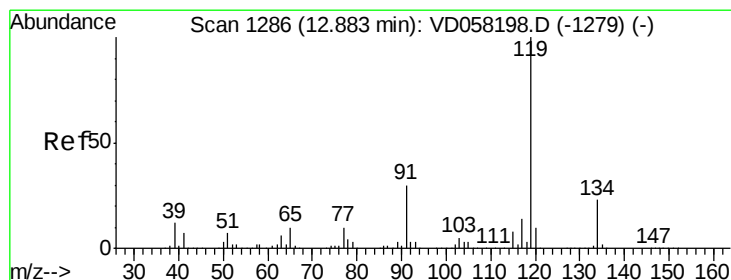
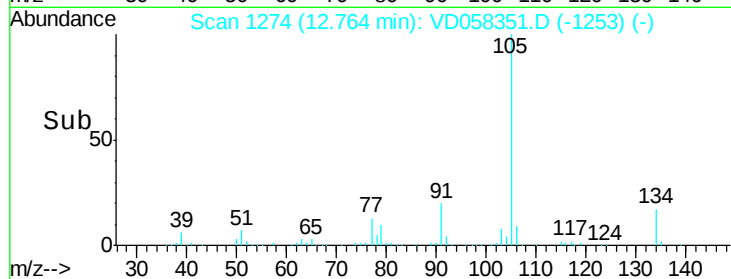
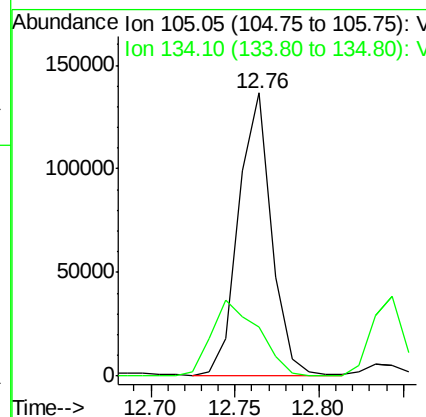
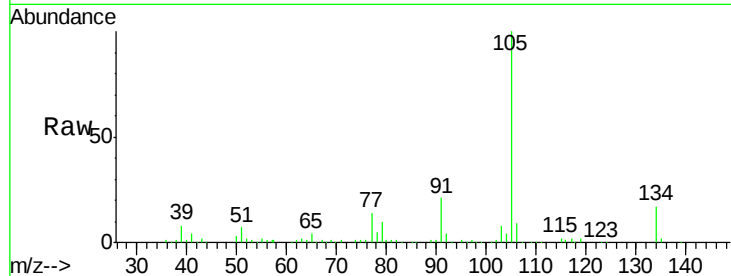




#85
 sec-Butylbenzene
 Concen: 6.39 ug/l
 RT: 12.76 min Scan# 1274
 Delta R.T. 0.01 min
 Lab File: VD058351.D
 Acq: 23 Jun 2018 20:04

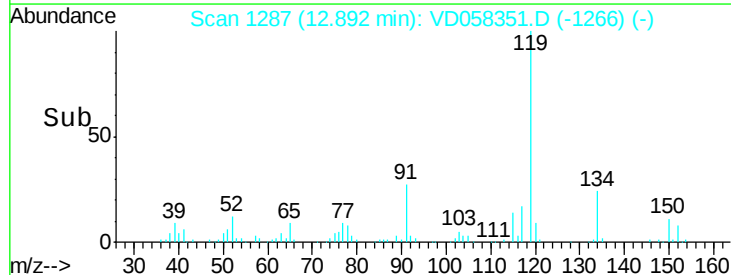
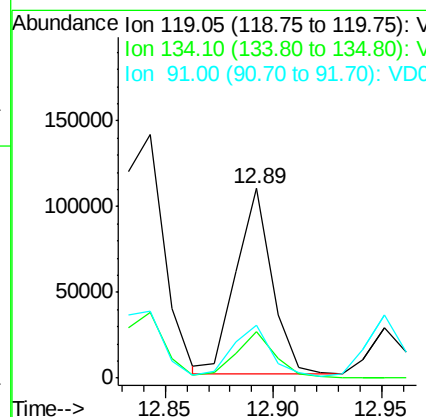
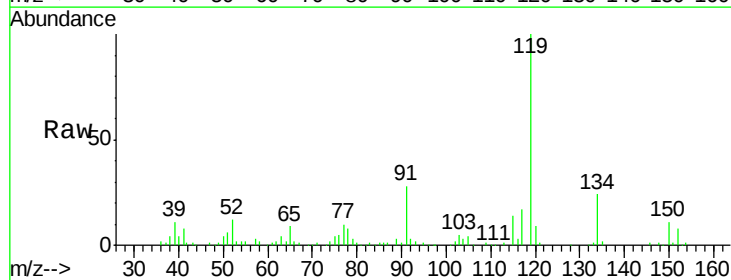
Instrument :
 MSVOA_D
 ClientSampleID :

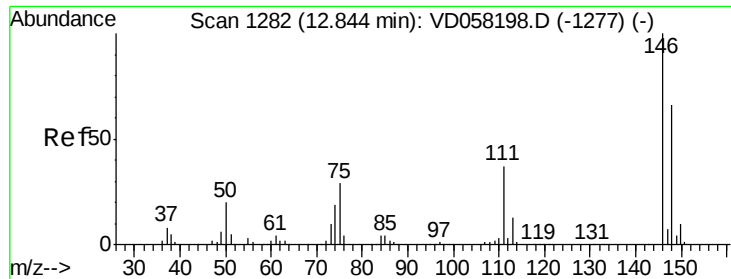
Tot Ion:105 Resp: 186649
 Ion Ratio Lower Upper
 105 100
 134 17.3 8.1 24.3



#86
 p-Isopropyltoluene
 Concen: 5.27 ug/l
 RT: 12.89 min Scan# 1287
 Delta R.T. 0.01 min
 Lab File: VD058351.D
 Acq: 23 Jun 2018 20:04

Tgt Ion:119 Resp: 124640
 Ion Ratio Lower Upper
 119 100
 134 24.4 11.6 34.8
 91 27.8 15.0 45.1

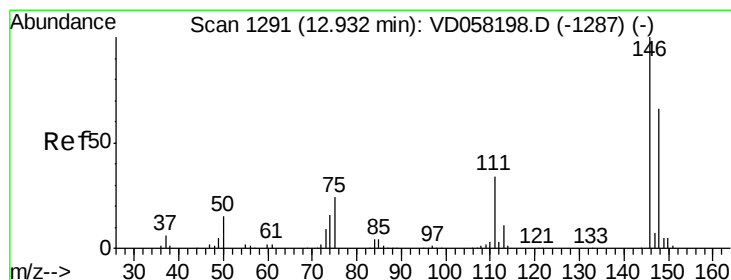
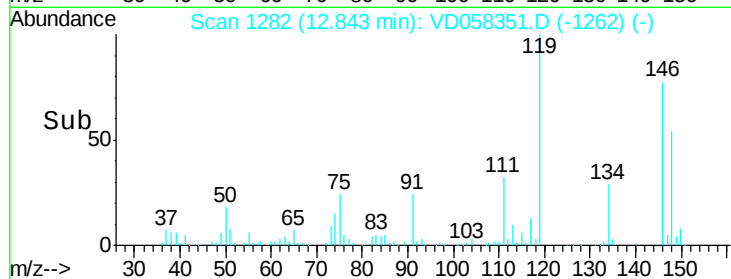
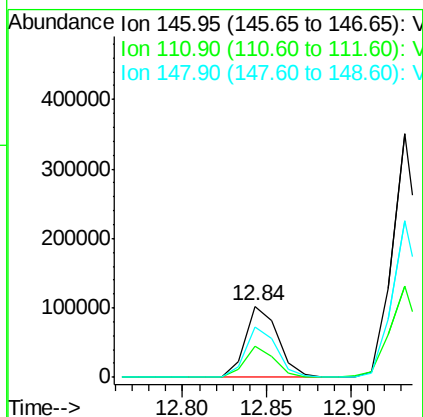
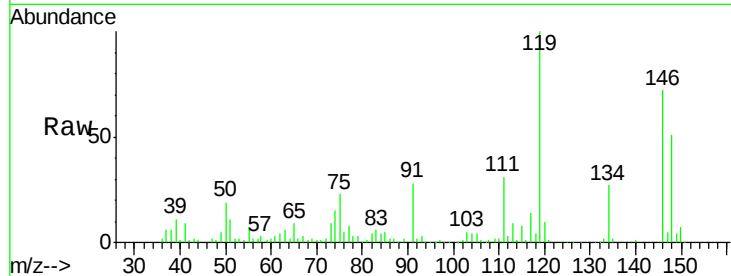




#87
 1,3-Dichlorobenzene
 Concen: 9.55 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VD058351.D
 Acq: 23 Jun 2018 20:04

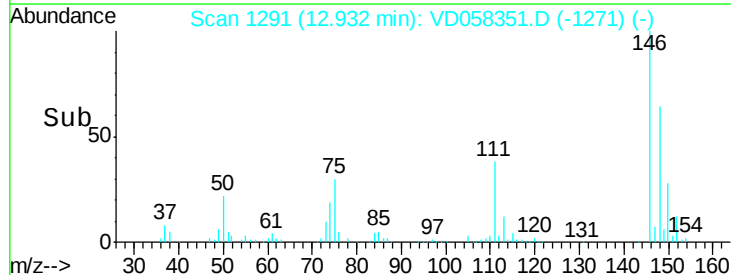
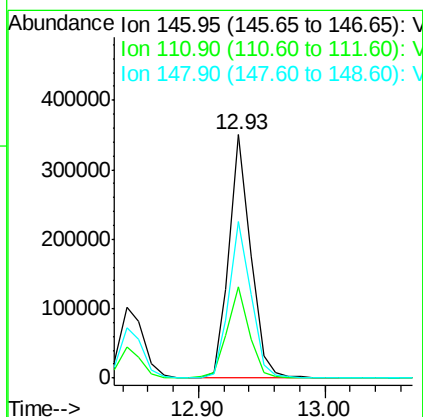
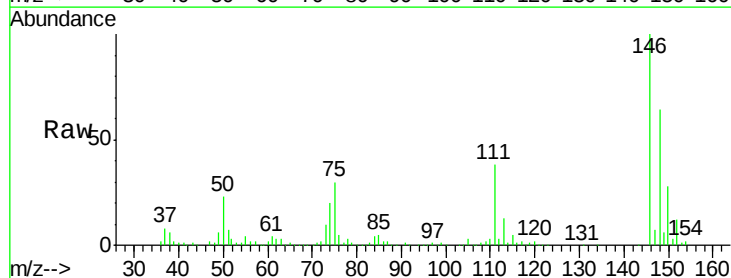
Instrument :
 MSVOA_D
 ClientSampled :

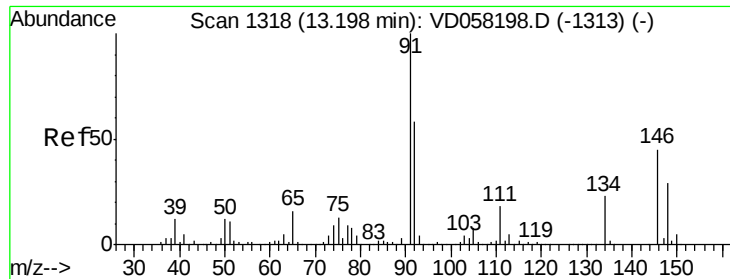
Tot Ion:146 Resp: 138062
 Ion Ratio Lower Upper
 146 100
 111 42.9 18.4 55.0
 148 70.2 32.8 98.4



#88
 1,4-Dichlorobenzene
 Concen: 29.49 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. -0.00 min
 Lab File: VD058351.D
 Acq: 23 Jun 2018 20:04

Tgt Ion:146 Resp: 416478
 Ion Ratio Lower Upper
 146 100
 111 37.6 17.2 51.5
 148 64.3 33.1 99.3





#89

n-Butylbenzene

Concen: 5.02 ug/l

RT: 13.20 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VD058351.D

Acq: 23 Jun 2018 20:04

Instrument :

MSVOA_D

ClientSampleId :

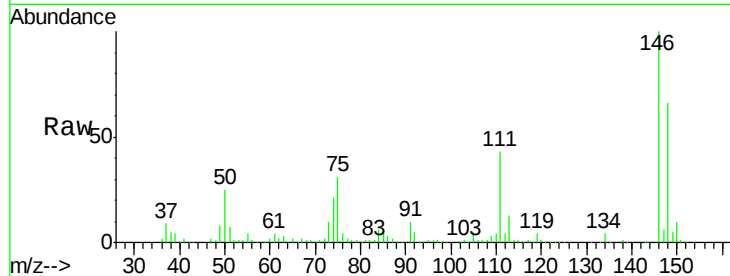
Tot Ion: 91 Resp: 124797

Ion Ratio Lower Upper

91 100

92 48.6 29.2 87.6

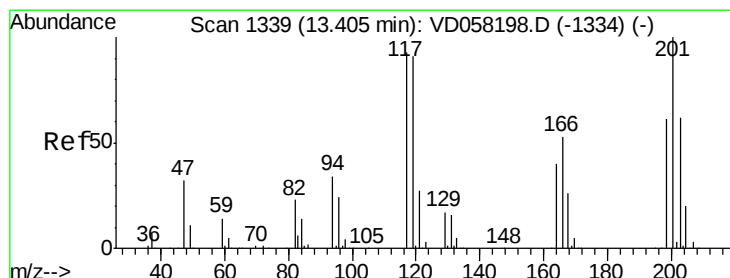
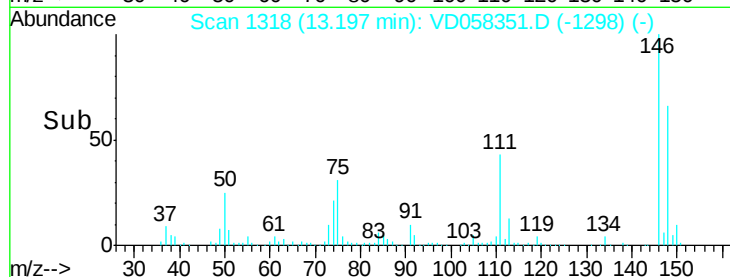
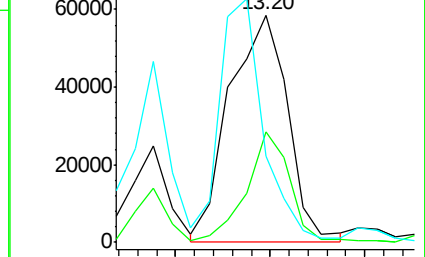
134 38.1 11.3 33.8#



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: 3.34 ug/l

RT: 13.40 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VD058351.D

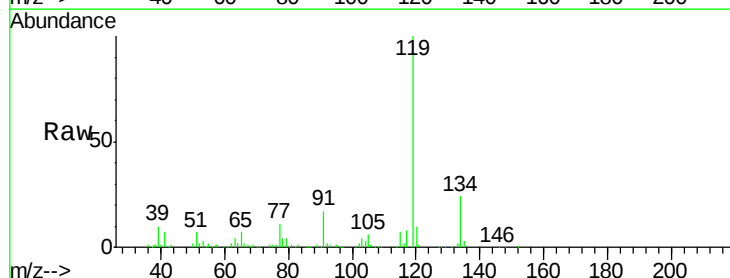
Acq: 23 Jun 2018 20:04

Tgt Ion: 117 Resp: 20547

Ion Ratio Lower Upper

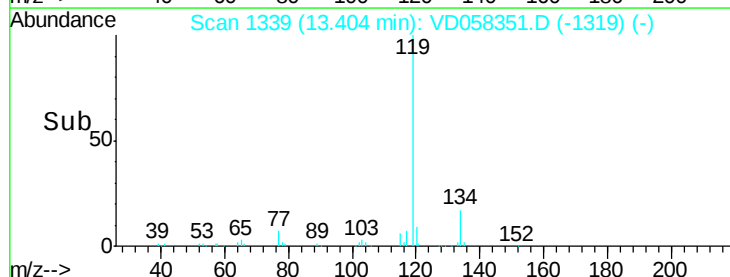
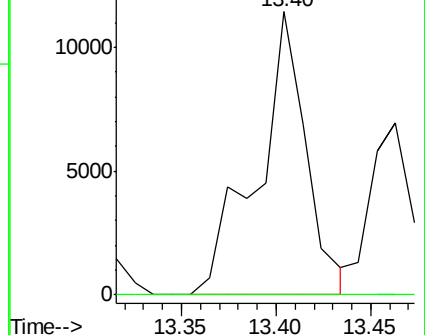
117 100

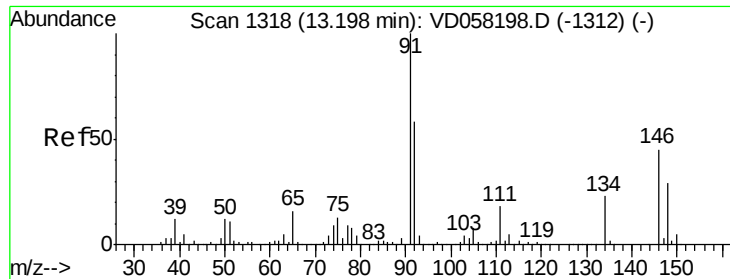
201 0.0 53.8 161.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

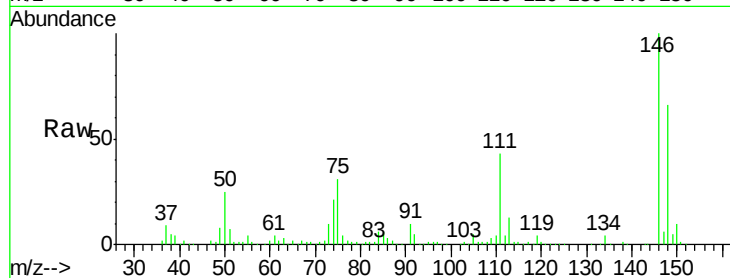




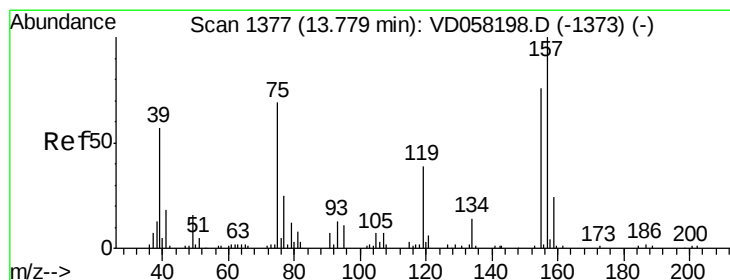
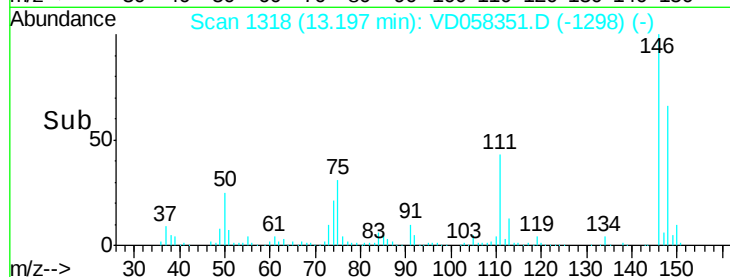
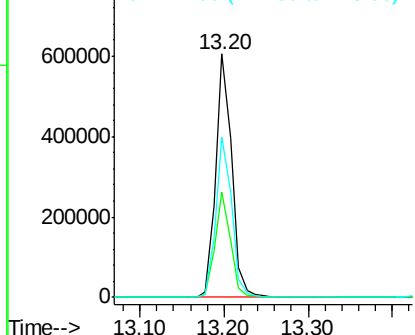
#91
 1,2-Dichlorobenzene
 Concen: 65.18 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: VD058351.D
 Acq: 23 Jun 2018 20:04

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:146 Resp: 802317
 Ion Ratio Lower Upper
 146 100
 111 43.3 19.6 58.7
 148 66.0 32.0 96.2

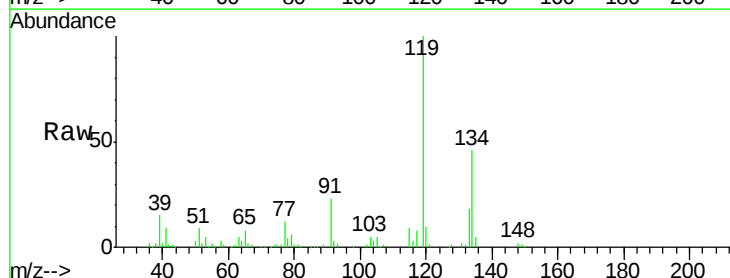


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

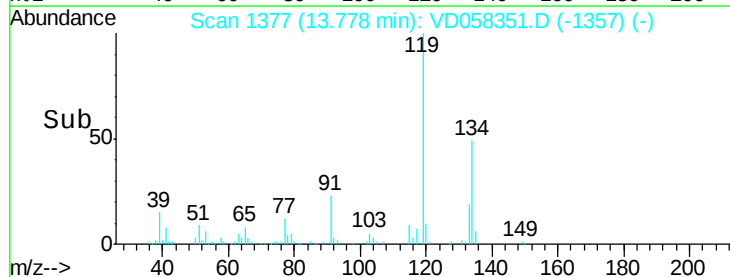
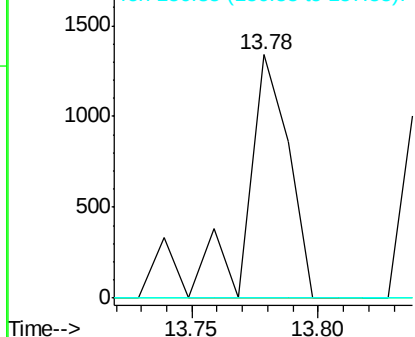


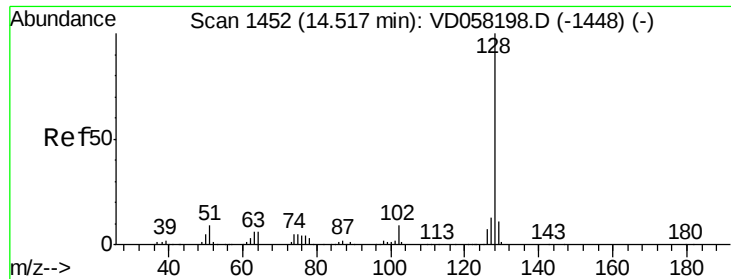
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.49 ug/l
 RT: 13.78 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VD058351.D
 Acq: 23 Jun 2018 20:04

Tgt Ion: 75 Resp: 1530
 Ion Ratio Lower Upper
 75 100
 155 0.0 54.5 163.5#
 157 0.0 72.0 215.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

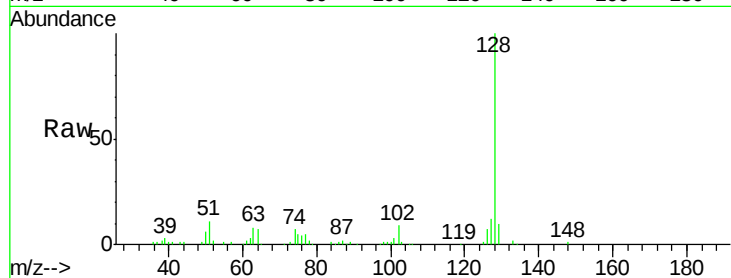




#95
 Naphthalene
 Concen: 8.35 ug/l
 RT: 14.52 min Scan# 1452
 Delta R.T. -0.00 min
 Lab File: VD058351.D
 Acq: 23 Jun 2018 20:04

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.0	15.0
129	10.1	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

