

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD112118\
 Data File : VD060444.D
 Acq On : 21 Nov 2018 16:01
 Operator : JC/SY
 Sample : J5765-03
 Misc : 5.58g/5ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 NB-08-112018

Quant Time: Nov 22 03:33:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 19 16:31:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	950194	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.45	114	1459416	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	809593	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.37	152	228175	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	332718	48.90	ug/l	-0.01
Spiked Amount 50.000			Recovery =	97.80%		
35) Dibromofluoromethane	6.32	113	492675	45.27	ug/l	-0.01
Spiked Amount 50.000			Recovery =	90.54%		
50) Toluene-d8	9.45	98	983415	30.88	ug/l	-0.01
Spiked Amount 50.000			Recovery =	61.76%		
62) 4-Bromofluorobenzene	12.43	95	250507	21.71	ug/l	-0.01
Spiked Amount 50.000			Recovery =	43.42%		

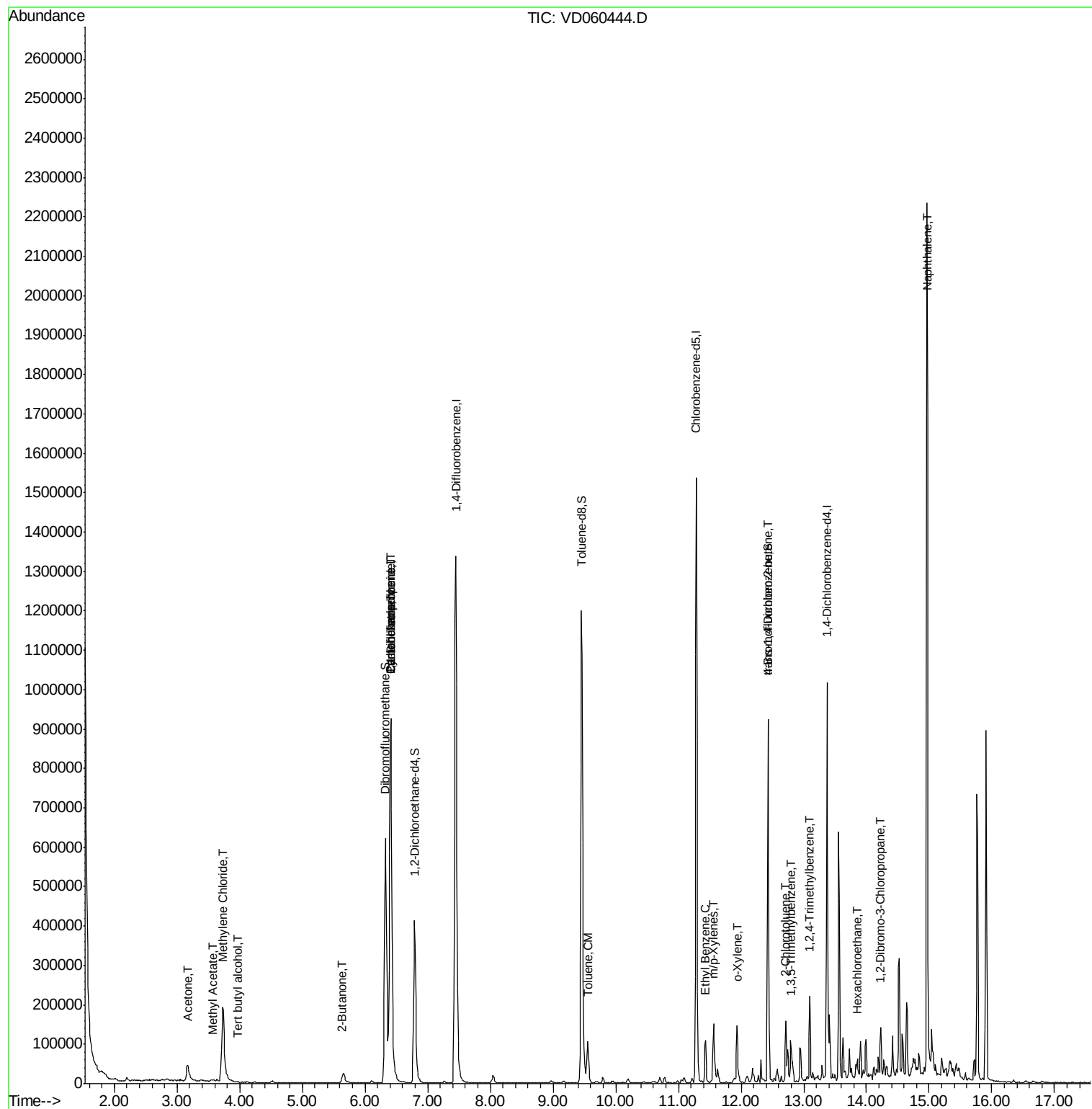
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	360	Below Cal	#	41
11) Tert butyl alcohol	3.96	59	456	1.632	ug/l #	70
16) Acetone	3.17	43	91027	77.132	ug/l #	87
18) Methyl Acetate	3.56	43	10054	3.995	ug/l #	63
20) Methylene Chloride	3.73	84	130899	12.504	ug/l	96
25) 2-Butanone	5.63	43	6380	2.601	ug/l #	60
31) Cyclohexane	6.40	56	19779	1.218	ug/l #	1
36) 1,1-Dichloropropene	6.41	75	66307	4.599	ug/l #	46
38) Carbon Tetrachloride	6.41	117	72971	5.456	ug/l #	15
52) Toluene	9.55	92	54922	2.336	ug/l	96
67) Ethyl Benzene	11.43	91	75993	2.532	ug/l	100
68) m/p-Xylenes	11.56	106	44099	3.984	ug/l	94
69) o-Xylene	11.93	106	31384	2.935	ug/l	96
79) 2-Chlorotoluene	12.71	91	14171	1.247	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.79	105	44292	3.428	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.43	75	99015	127.418	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.10	105	90415	7.007	ug/l	99
89) n-Butylbenzene	13.63	91	10688	Below Cal	#	1
90) Hexachloroethane	13.84	117	4752	1.414	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.24	75	598	1.822	ug/l #	1
95) Naphthalene	14.97	128	1401981	224.408	ug/l	99

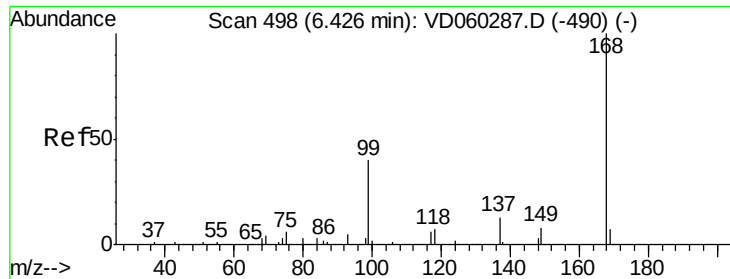
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 19 16:31:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060444.D

Acq: 21 Nov 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

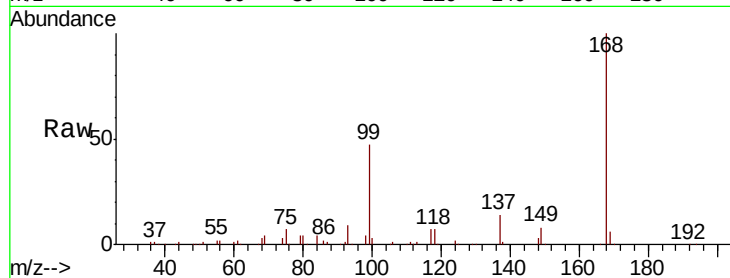
NB-08-112018

Tgt Ion:168 Resp: 950194

Ion Ratio Lower Upper

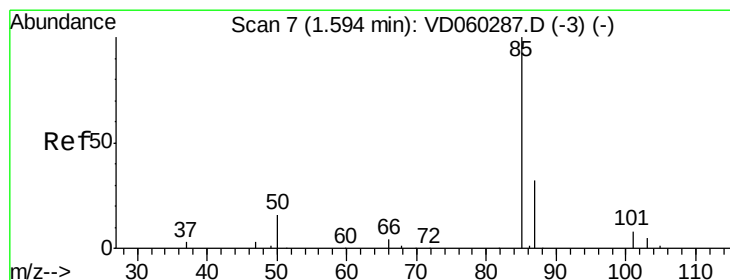
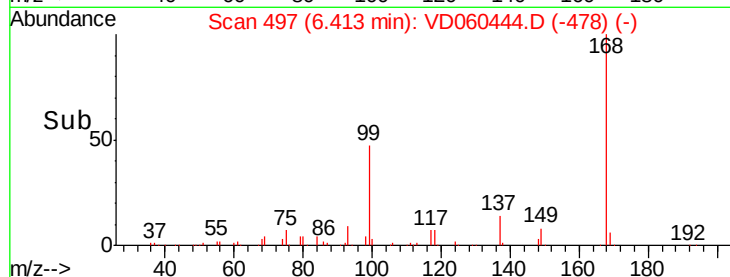
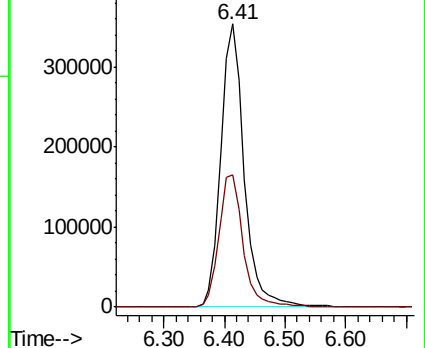
168 100

99 47.0 39.8 59.8



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: 1.60 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060444.D

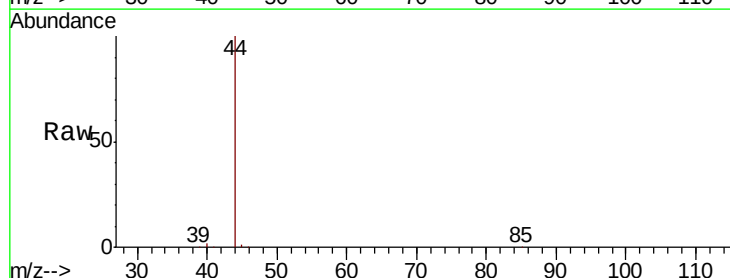
Acq: 21 Nov 2018 16:01

Tgt Ion: 85 Resp: 360

Ion Ratio Lower Upper

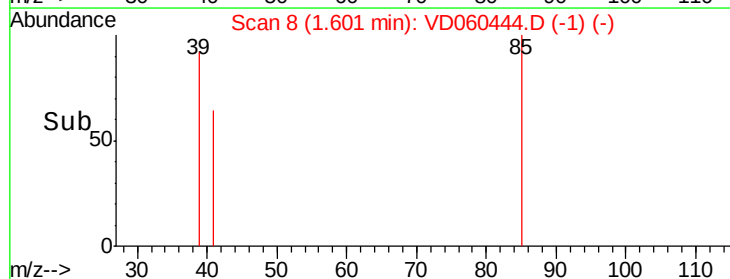
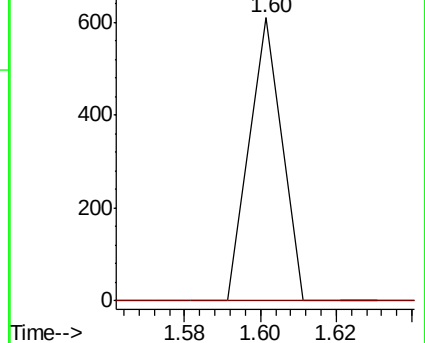
85 100

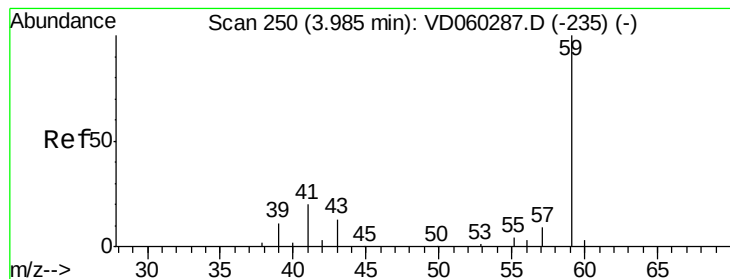
87 0.0 16.8 50.4#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#11

Tert butyl alcohol

Concen: 1.632 ug/l

RT: 3.96 min Scan# 248

Delta R.T. -0.02 min

Lab File: VD060444.D

Acq: 21 Nov 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

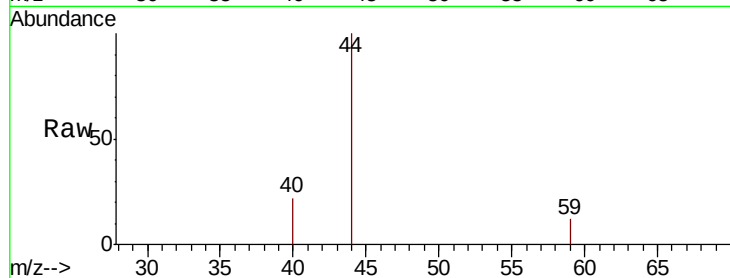
NB-08-112018

Tgt Ion: 59 Resp: 456

Ion Ratio Lower Upper

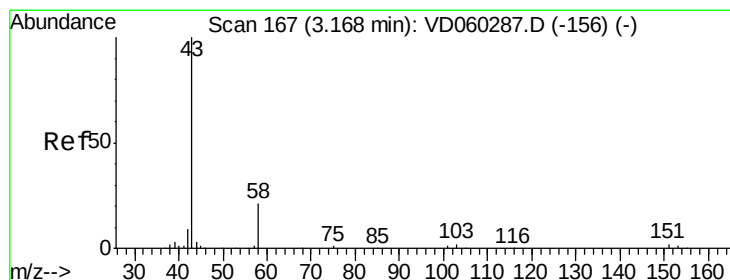
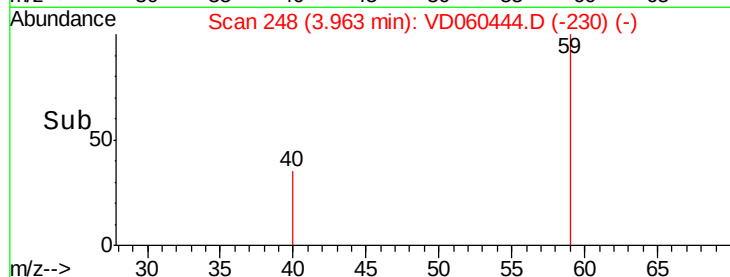
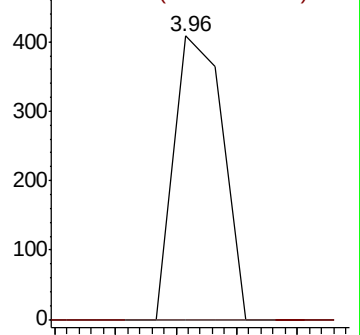
59 100

57 0.0 9.3 13.9#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#16

Acetone

Concen: 77.132 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.00 min

Lab File: VD060444.D

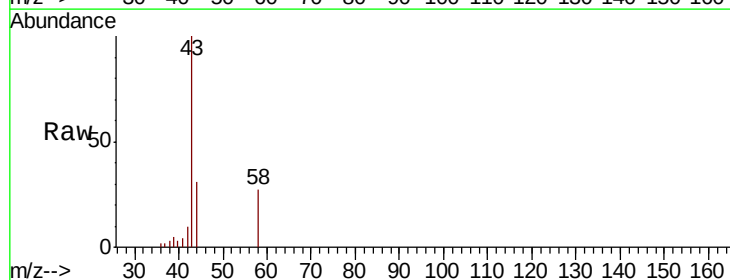
Acq: 21 Nov 2018 16:01

Tgt Ion: 43 Resp: 91027

Ion Ratio Lower Upper

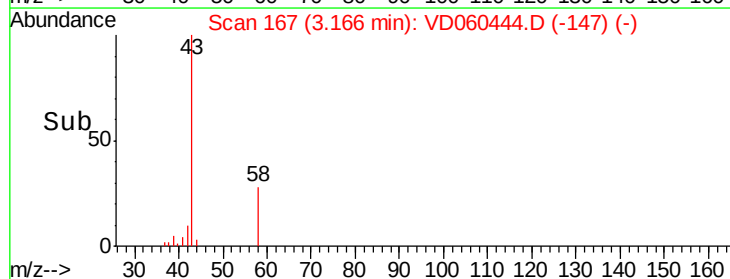
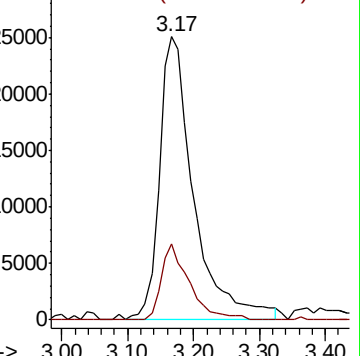
43 100

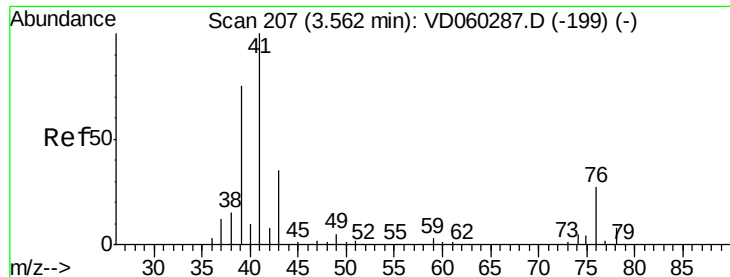
58 27.0 16.9 25.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

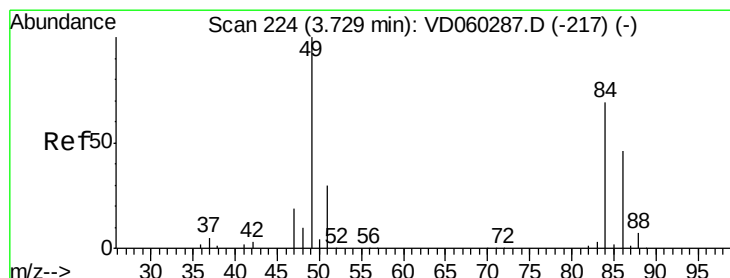
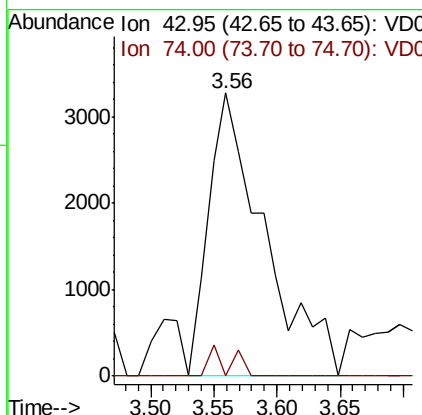
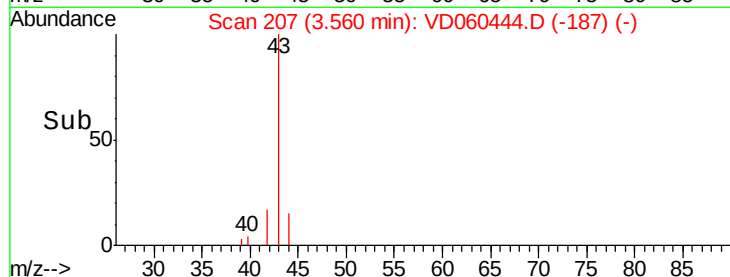
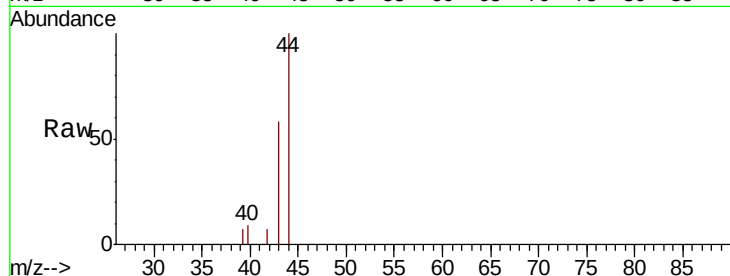




#18
Methyl Acetate
Concen: 3.995 ug/l
RT: 3.56 min Scan# 207
Delta R.T. -0.00 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

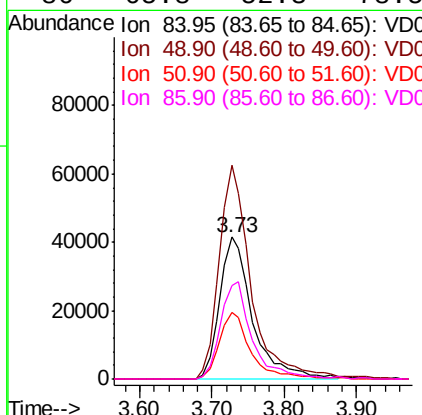
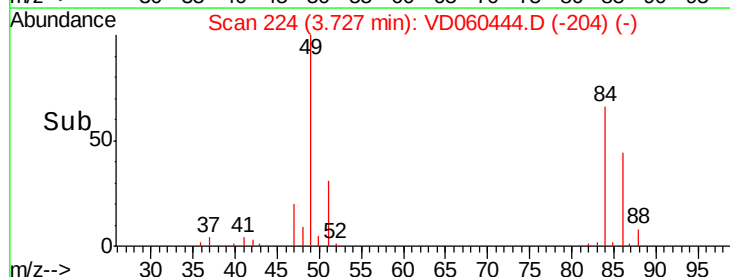
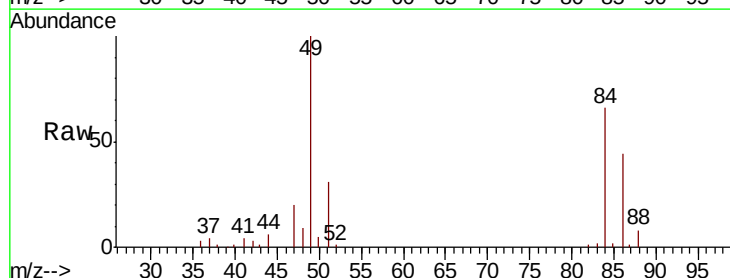
Instrument :
MSVOA_D
ClientSampleId :
NB-08-112018

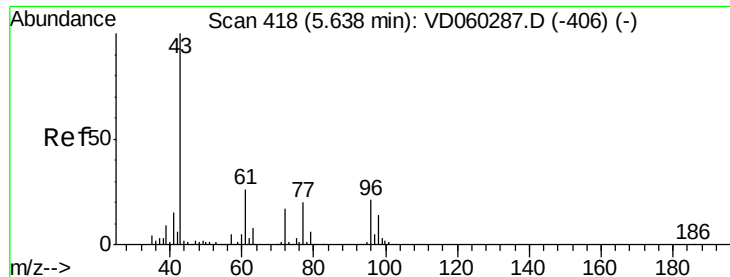
Tgt Ion: 43 Resp: 10054
Ion Ratio Lower Upper
43 100
74 0.0 12.4 18.6#



#20
Methylene Chloride
Concen: 12.504 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.00 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

Tgt Ion: 84 Resp: 130899
Ion Ratio Lower Upper
84 100
49 150.7 115.6 173.4
51 47.0 35.6 53.4
86 65.8 52.3 78.5





#25

2-Butanone

Concen: 2.601 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.01 min

Lab File: VD060444.D

Acq: 21 Nov 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

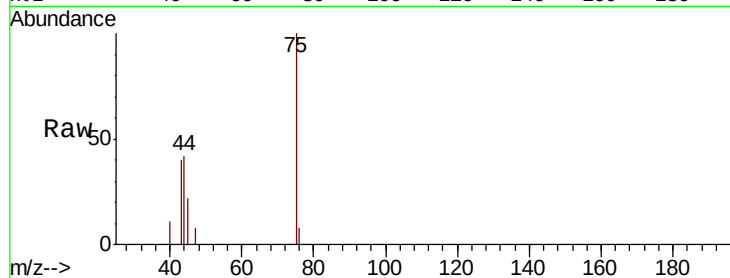
NB-08-112018

Tgt Ion: 43 Resp: 6380

Ion Ratio Lower Upper

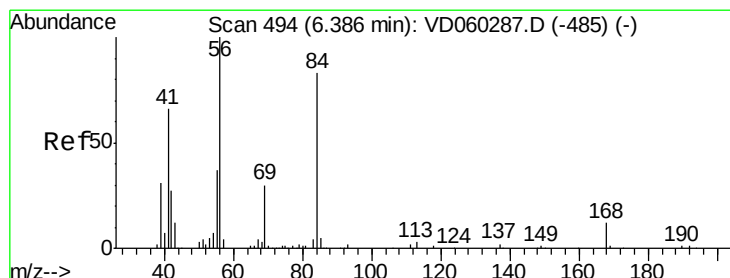
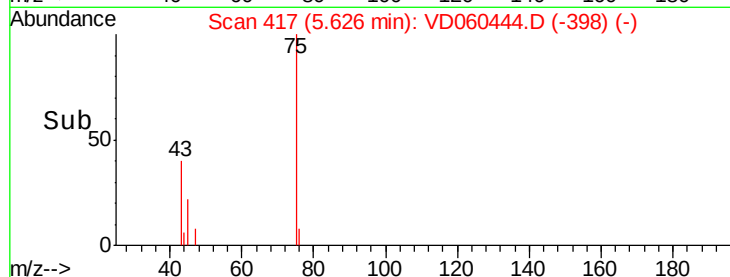
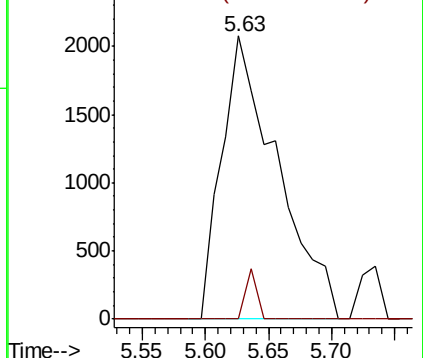
43 100

72 0.0 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.218 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060444.D

Acq: 21 Nov 2018 16:01

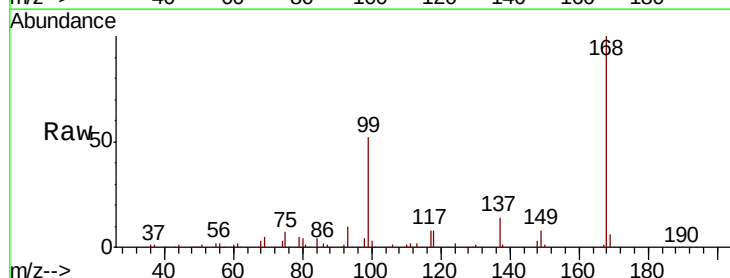
Tgt Ion: 56 Resp: 19779

Ion Ratio Lower Upper

56 100

69 243.7 22.2 33.2#

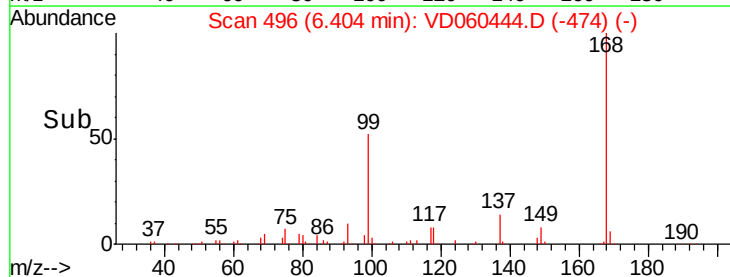
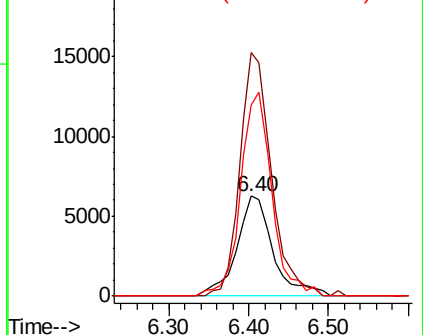
84 191.6 63.0 94.4#

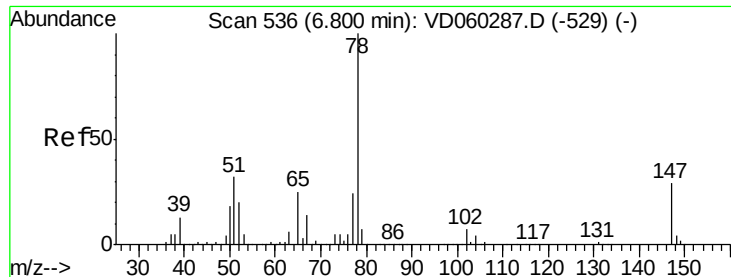


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060444.D

Acq: 21 Nov 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

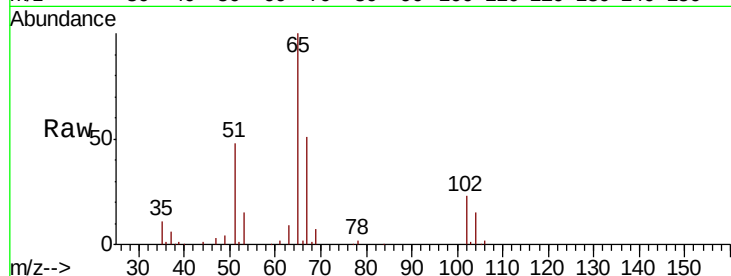
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Tgt Ion: 65 Resp: 332718

Ion Ratio Lower Upper

65 100

67 51.2 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.79

150000

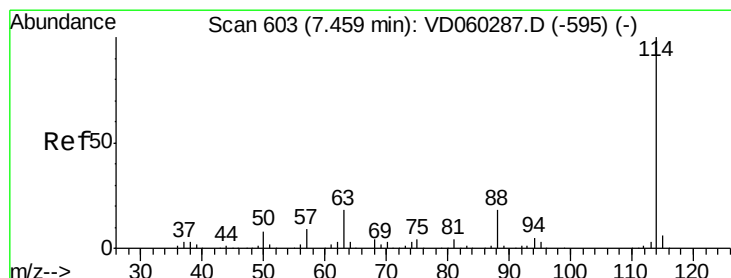
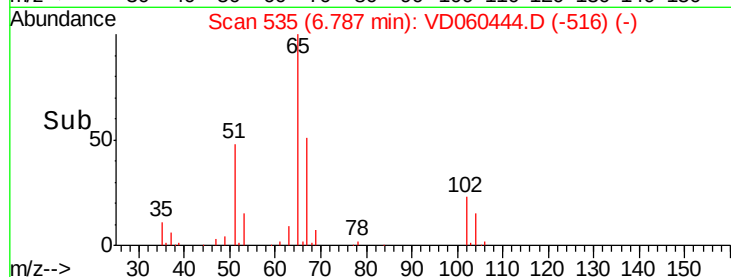
100000

50000

0

6.70 6.80 6.90 7.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.45 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD060444.D

Acq: 21 Nov 2018 16:01

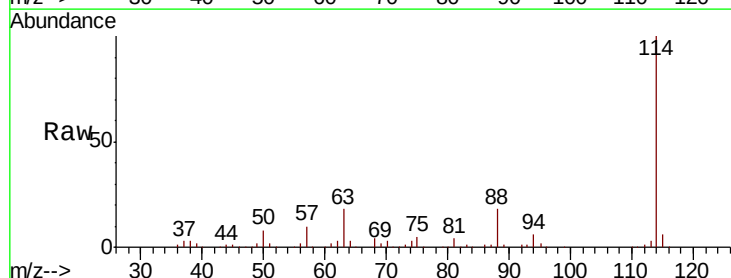
Tgt Ion: 114 Resp: 1459416

Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.0

88 17.9 0.0 35.4



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

800000

600000

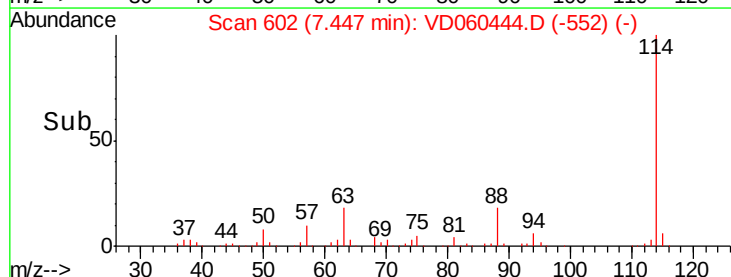
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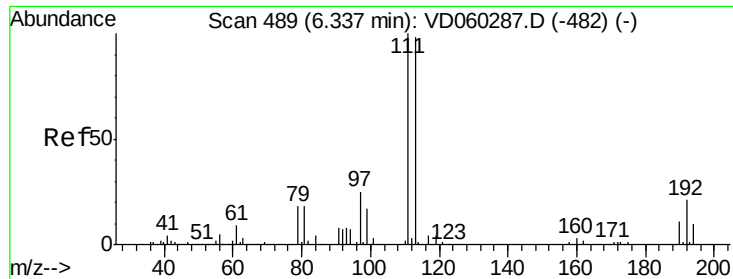
200000

0

7.40 7.45 7.50 7.55 7.60 7.65 7.70 7.75 7.80

Time-->

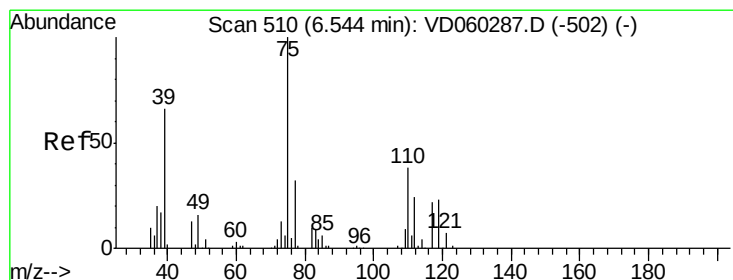
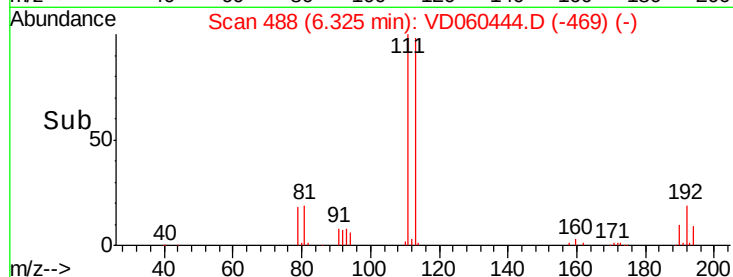
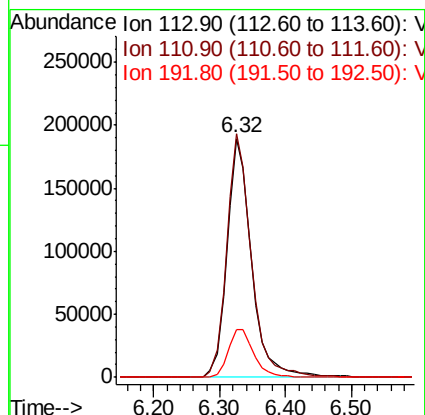
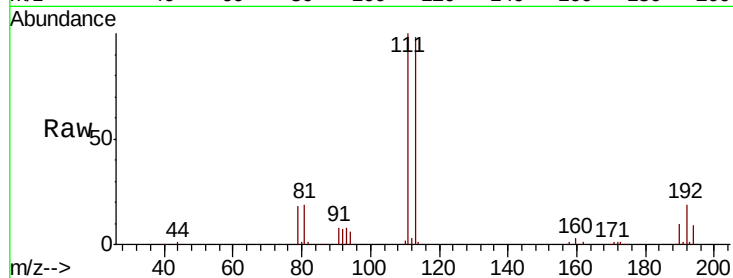




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.32 min Scan# 488
 Delta R.T. -0.01 min
 Lab File: VD060444.D
 Acq: 21 Nov 2018 16:01

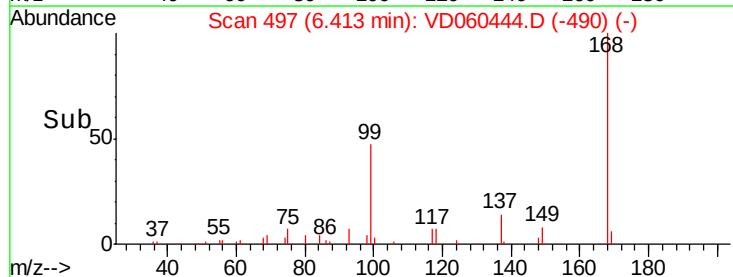
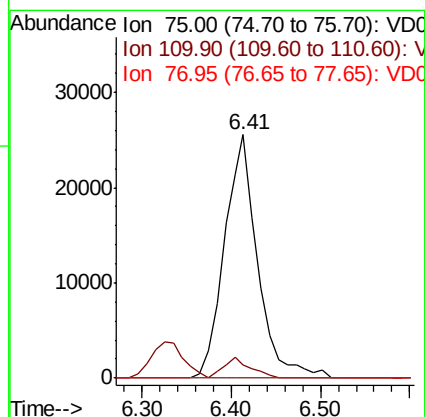
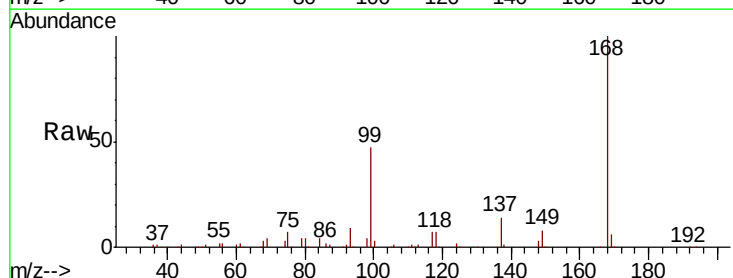
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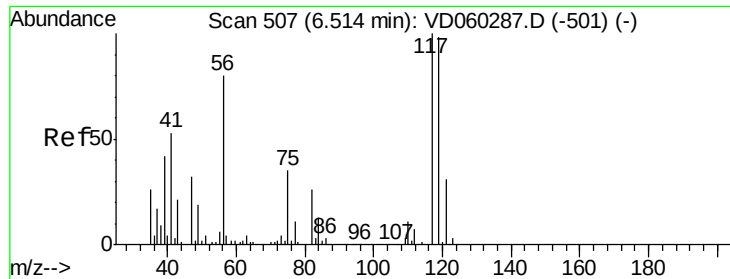
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.6	122.4
192	19.8	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.599 ug/l
 RT: 6.41 min Scan# 497
 Delta R.T. -0.13 min
 Lab File: VD060444.D
 Acq: 21 Nov 2018 16:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.6	18.0	54.0#
77	0.0	25.6	38.4#

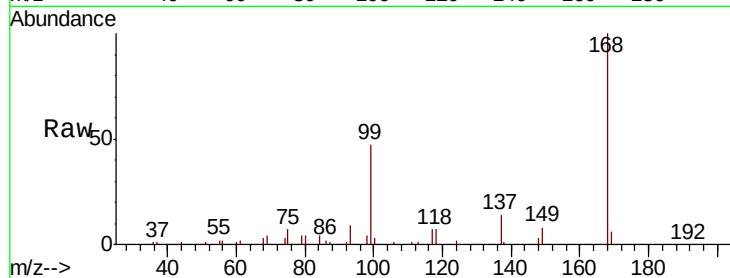




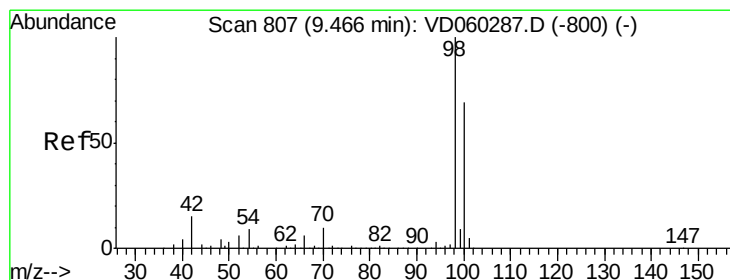
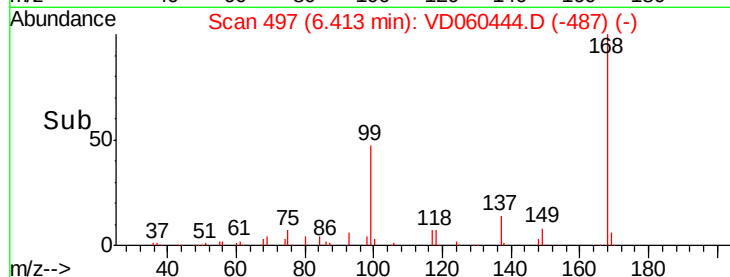
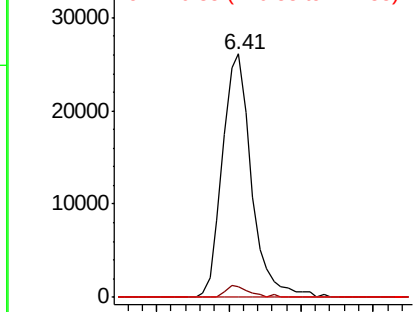
#38
Carbon Tetrachloride
Concen: 5.456 ug/l
RT: 6.41 min Scan# 497
Delta R.T. -0.10 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

Instrument :
MSVOA_D
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Tgt Ion:117 Resp: 72971
Ion Ratio Lower Upper
117 100
119 4.2 76.6 115.0#
121 0.0 24.3 36.5#

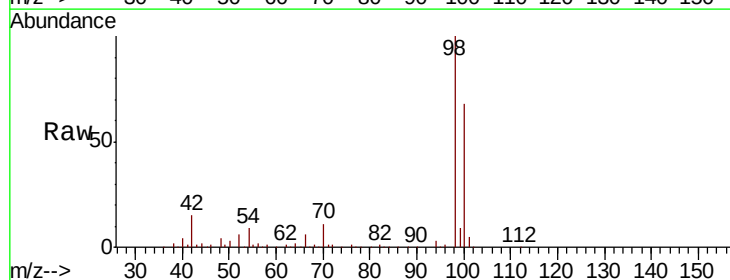


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

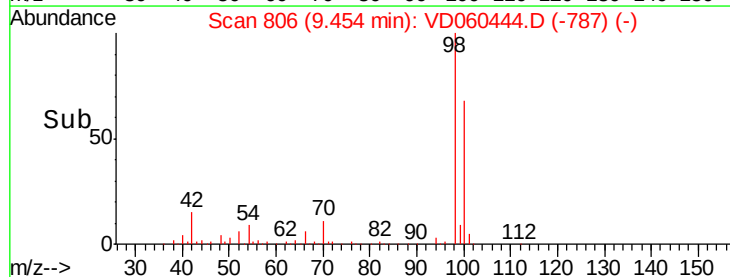
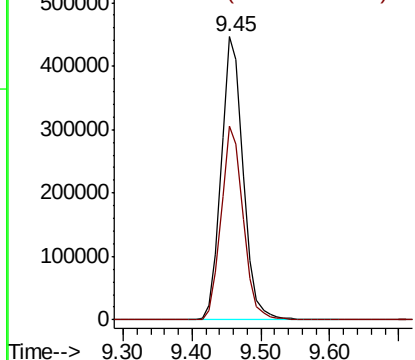


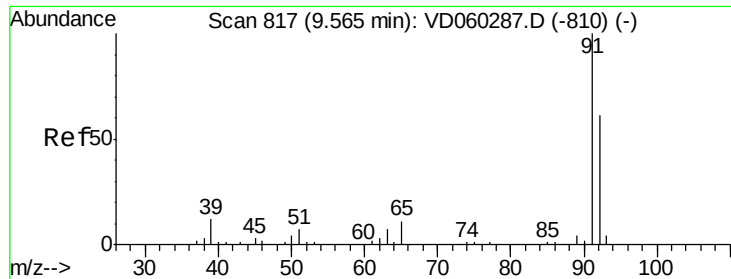
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 806
Delta R.T. -0.01 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

Tgt Ion: 98 Resp: 983415
Ion Ratio Lower Upper
98 100
100 68.5 55.2 82.8



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





#52

Toluene

Concen: 2.336 ug/l

RT: 9.55 min Scan# 816

Delta R.T. -0.01 min

Lab File: VD060444.D

Acq: 21 Nov 2018 16:01

Instrument :

MSVOA_D

ClientSampleId :

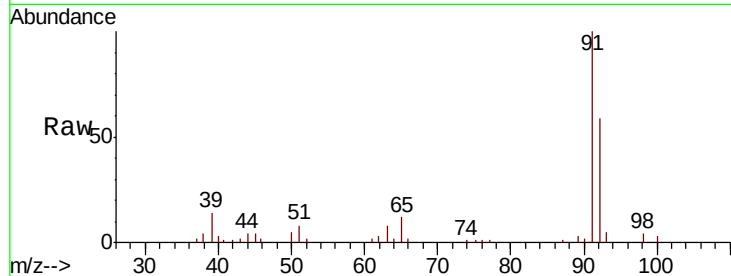
NB-08-112018

Tgt Ion: 92 Resp: 54922

Ion Ratio Lower Upper

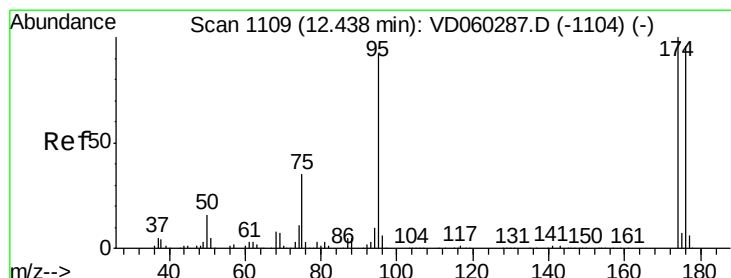
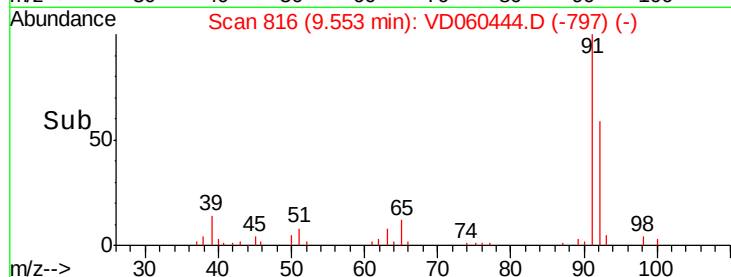
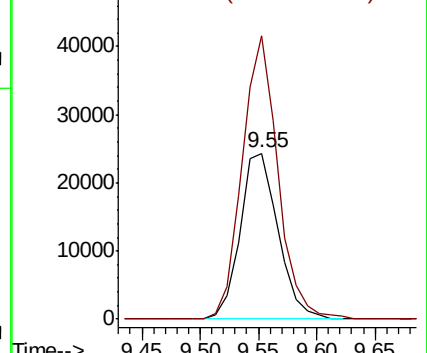
92 100

91 170.4 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060444.D

Acq: 21 Nov 2018 16:01

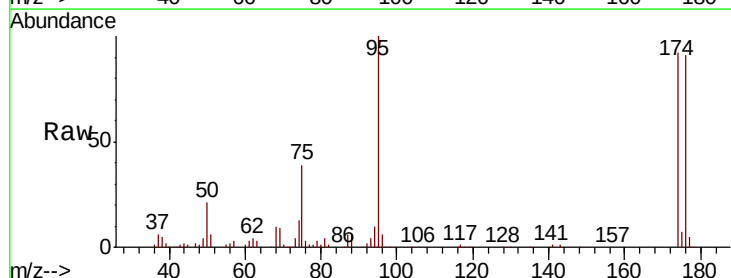
Tgt Ion: 95 Resp: 250507

Ion Ratio Lower Upper

95 100

174 92.1 0.0 160.8

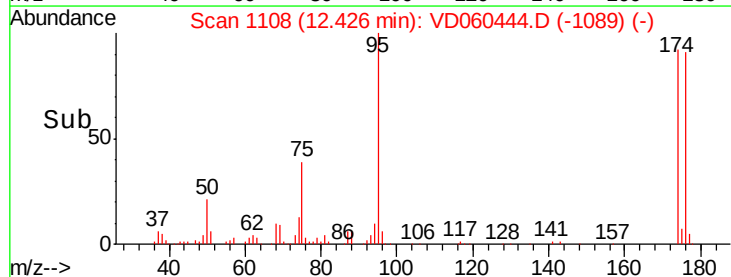
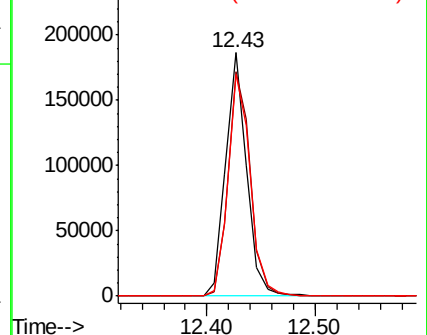
176 90.9 0.0 154.6

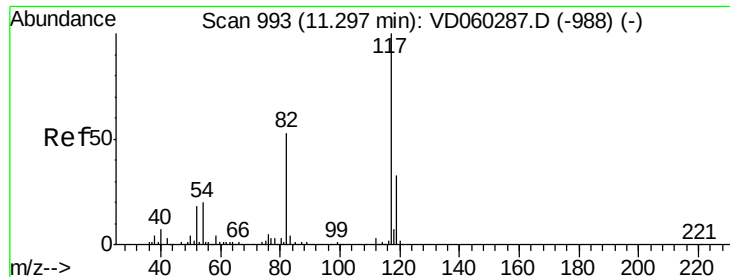


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

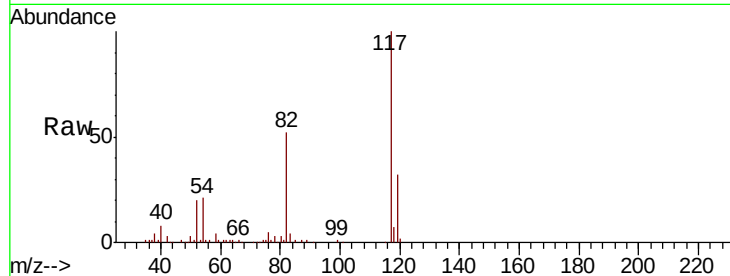




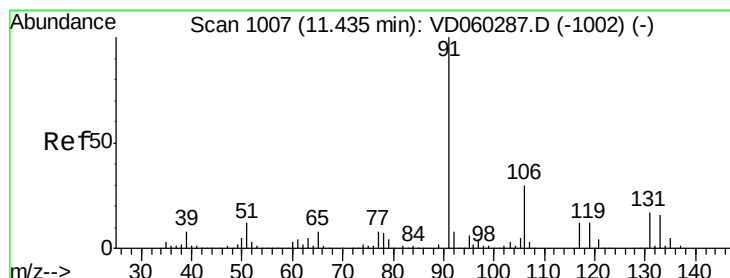
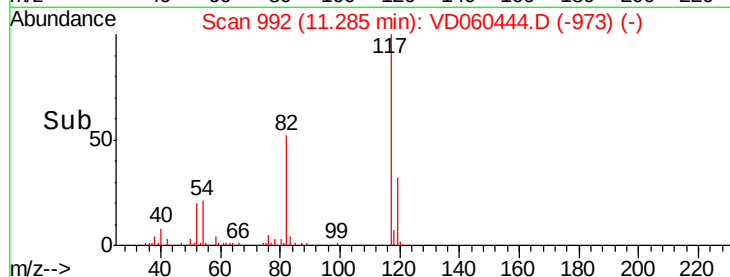
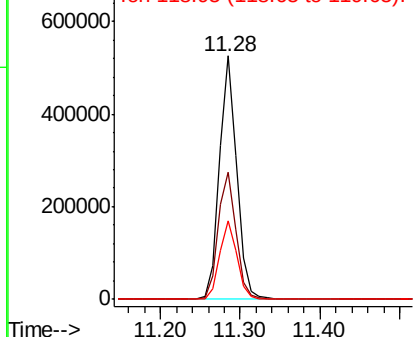
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 992
Delta R.T. -0.01 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
NB-08-112018

Tgt Ion: 117 Resp: 809593
Ion Ratio Lower Upper
117 100
82 52.4 43.7 65.5
119 32.1 26.1 39.1

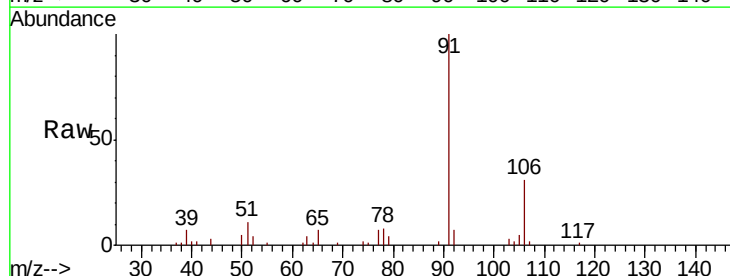


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

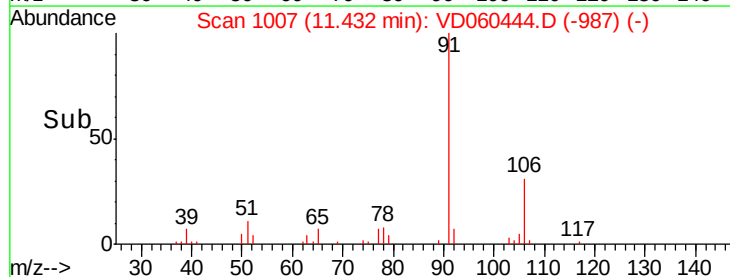
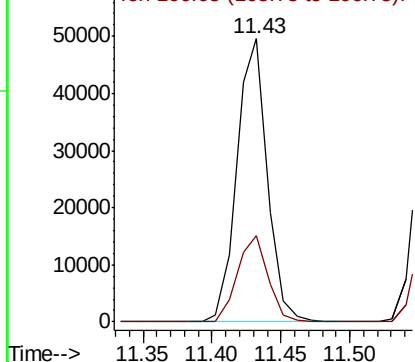


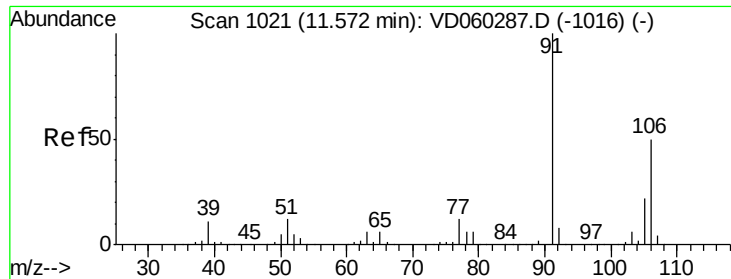
#67
Ethyl Benzene
Concen: 2.532 ug/l
RT: 11.43 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

Tgt Ion: 91 Resp: 75993
Ion Ratio Lower Upper
91 100
106 30.7 24.6 36.8



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

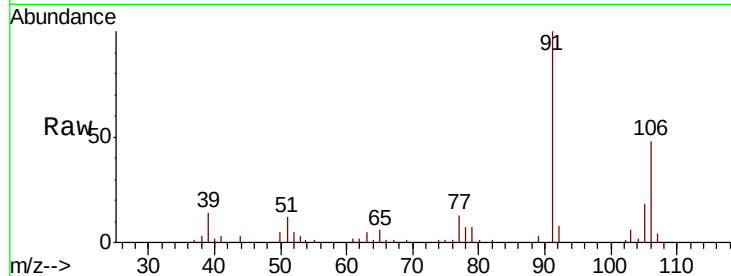




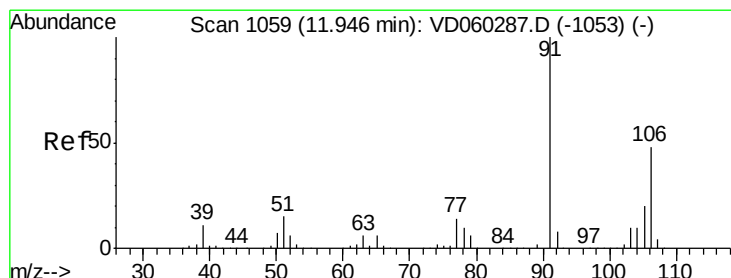
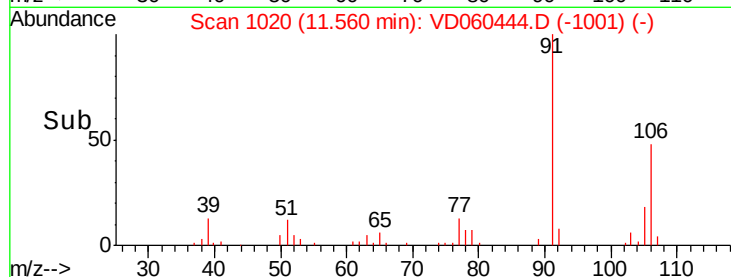
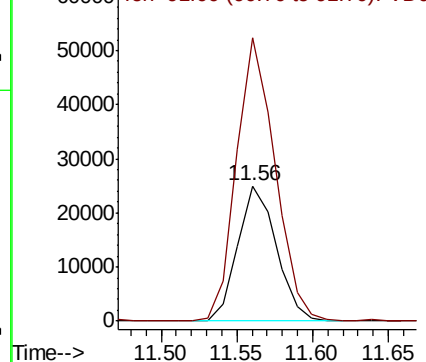
#68
m/p-Xylenes
Concen: 3.984 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. -0.01 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
NB-08-112018

Tgt Ion:106 Resp: 44099
Ion Ratio Lower Upper
106 100
91 209.0 159.4 239.2

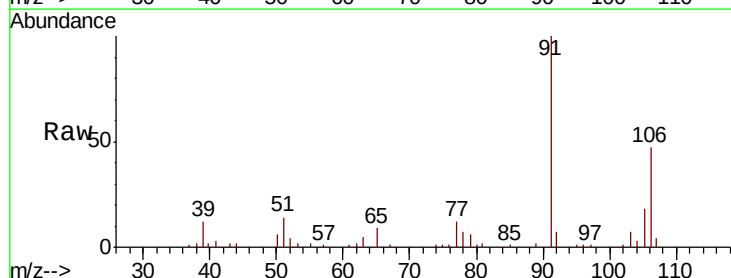


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

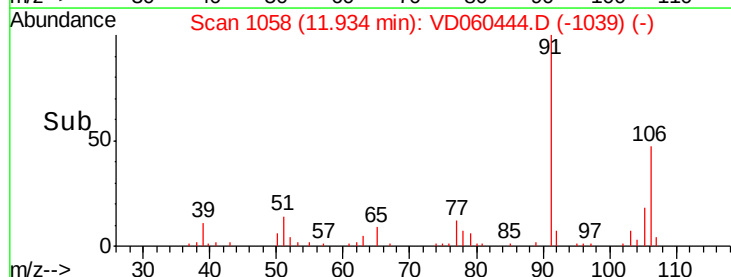
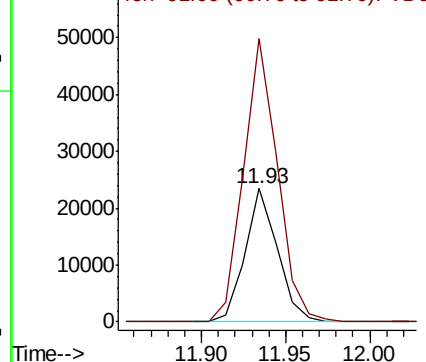


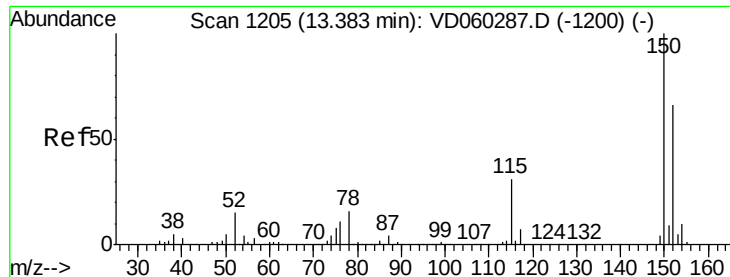
#69
o-Xylene
Concen: 2.935 ug/l
RT: 11.93 min Scan# 1058
Delta R.T. -0.01 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

Tgt Ion:106 Resp: 31384
Ion Ratio Lower Upper
106 100
91 212.2 109.2 327.6



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



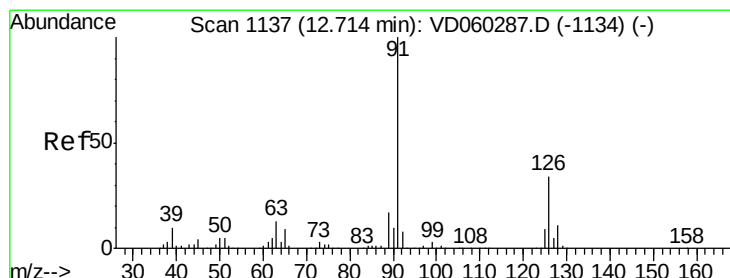
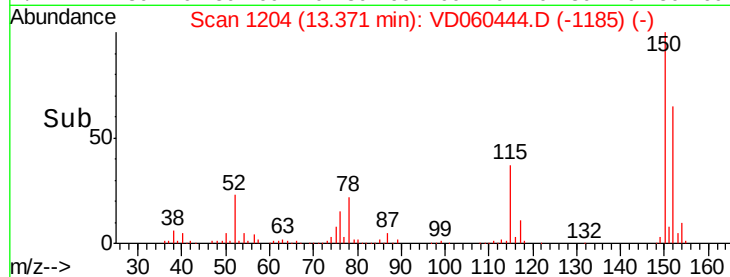
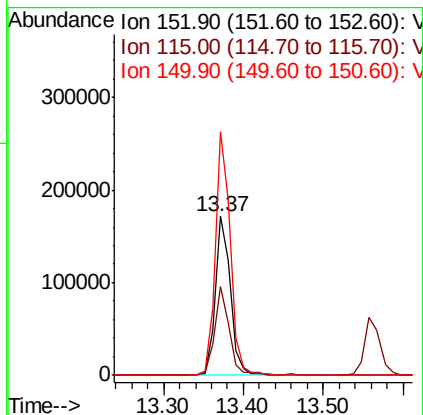
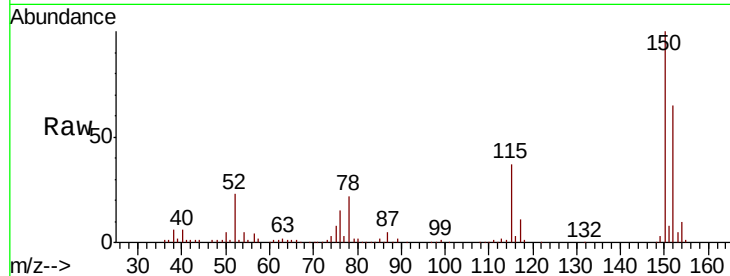


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

Instrument :
MSVOA_D
ClientSampleId :
NB-08-112018

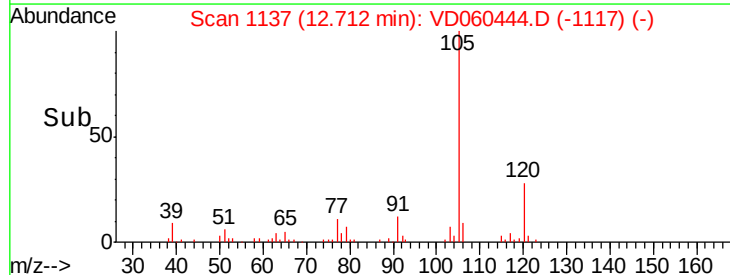
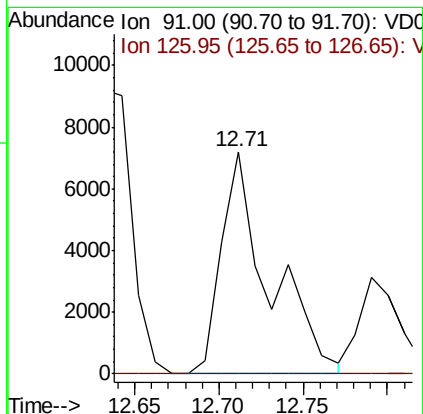
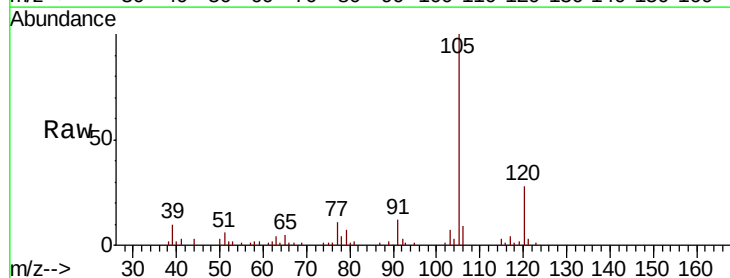
Tgt Ion:152 Resp: 228175
Ion Ratio Lower Upper
152 100
115 56.2 24.1 72.3
150 153.4 0.0 310.6

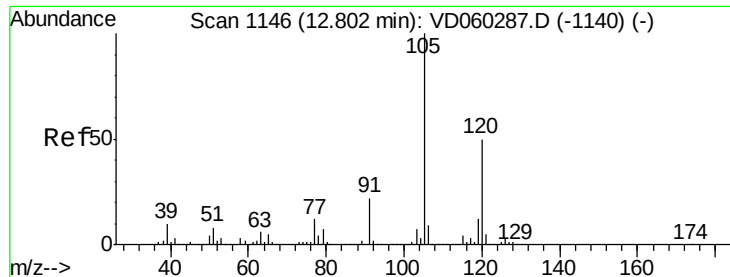


#79

2-Chlorotoluene
Concen: 1.247 ug/l
RT: 12.71 min Scan# 1137
Delta R.T. -0.00 min
Lab File: VD060444.D
Acq: 21 Nov 2018 16:01

Tgt Ion: 91 Resp: 14171
Ion Ratio Lower Upper
91 100
126 0.0 17.4 52.2#

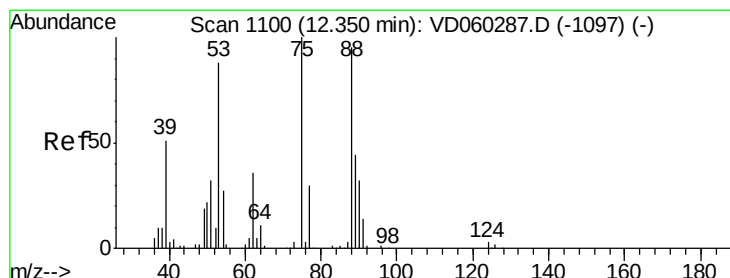
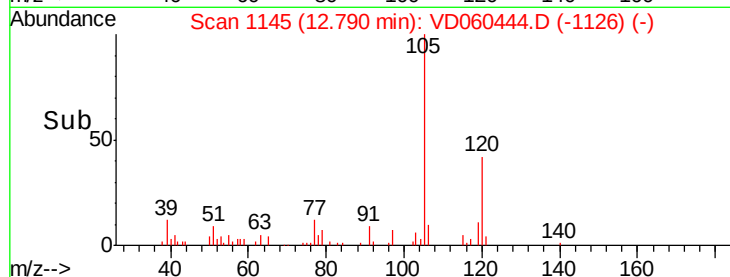
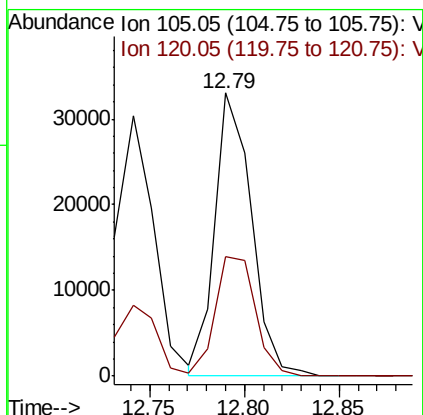
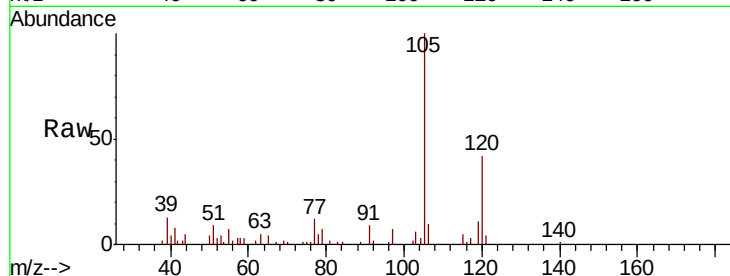




#80
 1,3,5-Trimethylbenzene
 Concen: 3.428 ug/l
 RT: 12.79 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: VD060444.D
 Acq: 21 Nov 2018 16:01

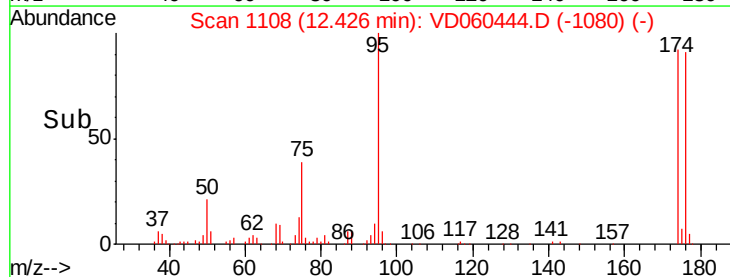
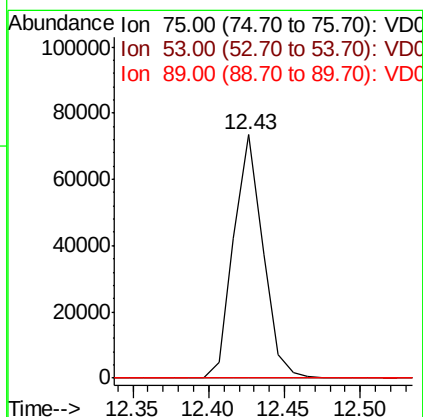
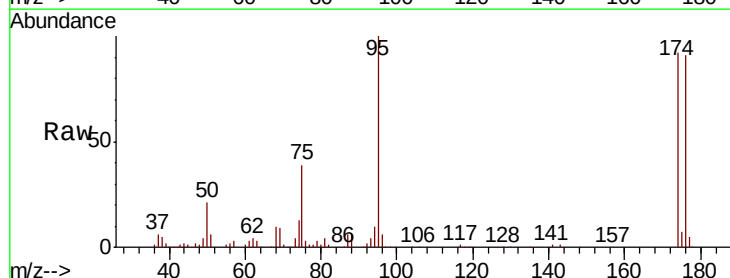
Instrument :
 MSVOA_D
 ClientSampleId :
 NB-08-112018

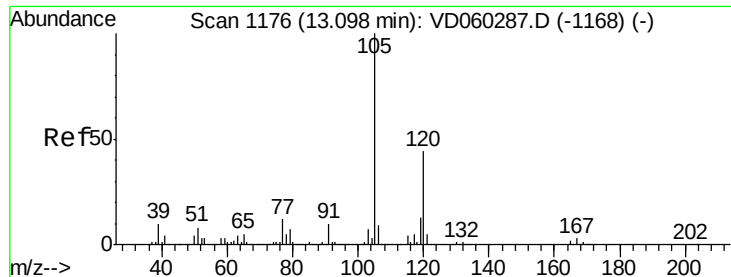
Tgt Ion:105 Resp: 44292
 Ion Ratio Lower Upper
 105 100
 120 42.3 24.4 73.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.418 ug/l
 RT: 12.43 min Scan# 1108
 Delta R.T. 0.08 min
 Lab File: VD060444.D
 Acq: 21 Nov 2018 16:01

Tgt Ion: 75 Resp: 99015
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 103.0#
 89 0.0 34.1 51.1#

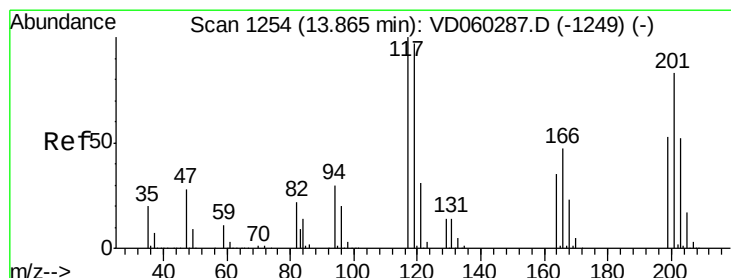
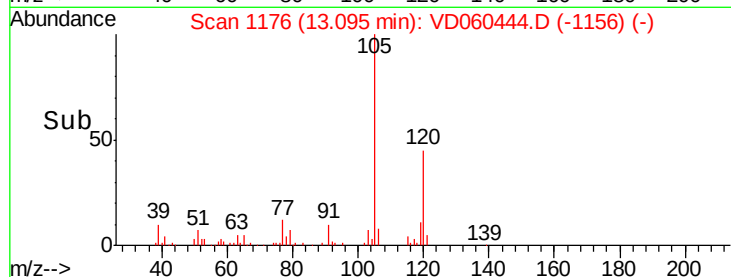
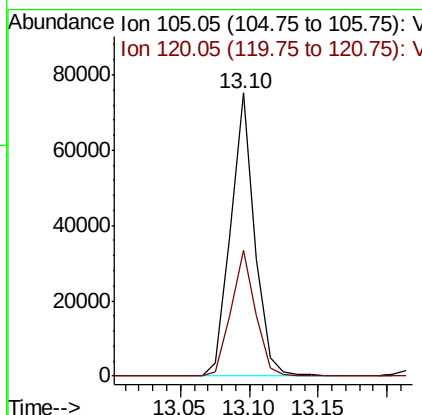
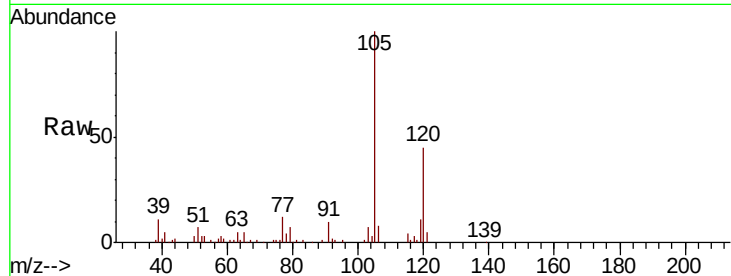




#84
 1,2,4-Trimethylbenzene
 Concen: 7.007 ug/l
 RT: 13.10 min Scan# 1176
 Delta R.T. -0.00 min
 Lab File: VD060444.D
 Acq: 21 Nov 2018 16:01

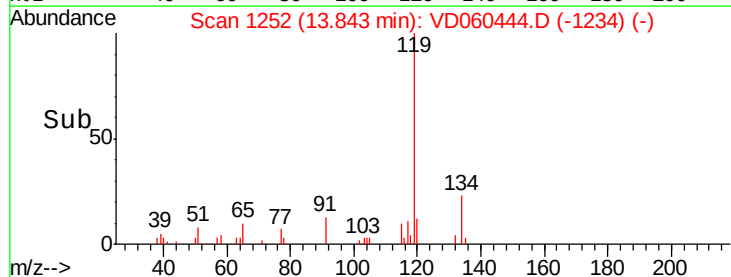
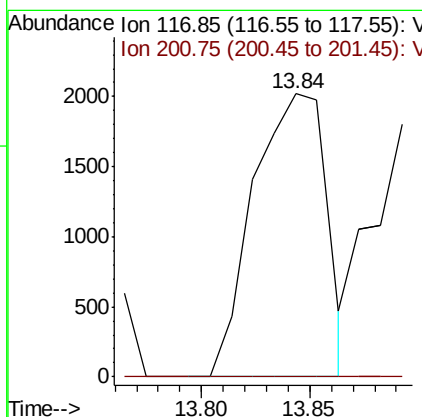
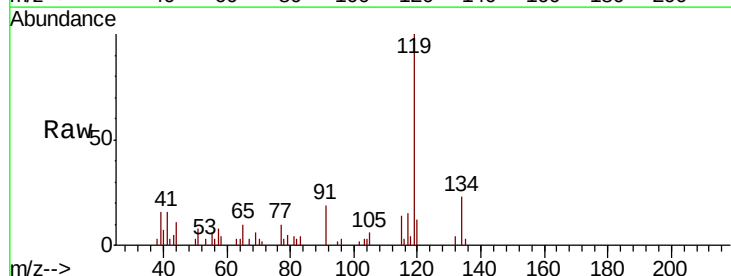
Instrument :
 MSVOA_D
 ClientSampleId :
 NB-08-112018

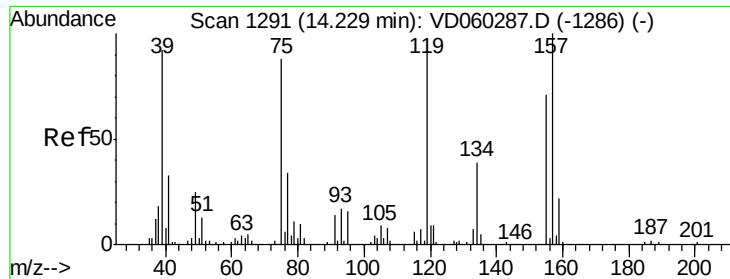
Tgt Ion:105 Resp: 90415
 Ion Ratio Lower Upper
 105 100
 120 44.6 21.9 65.8



#90
 Hexachloroethane
 Concen: 1.414 ug/l
 RT: 13.84 min Scan# 1252
 Delta R.T. -0.02 min
 Lab File: VD060444.D
 Acq: 21 Nov 2018 16:01

Tgt Ion:117 Resp: 4752
 Ion Ratio Lower Upper
 117 100
 201 0.0 40.1 120.3#

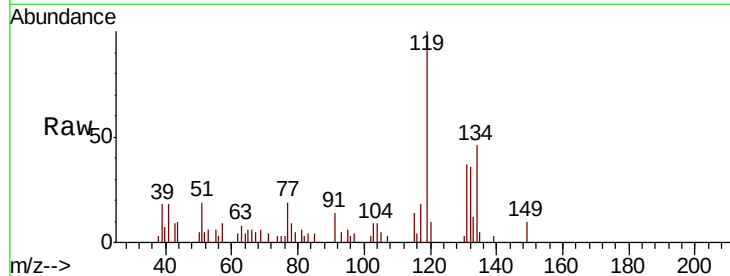




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.822 ug/l
 RT: 14.24 min Scan# 1292
 Delta R.T. 0.01 min
 Lab File: VD060444.D
 Acq: 21 Nov 2018 16:01

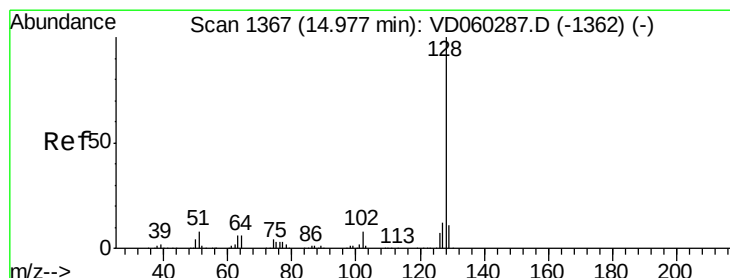
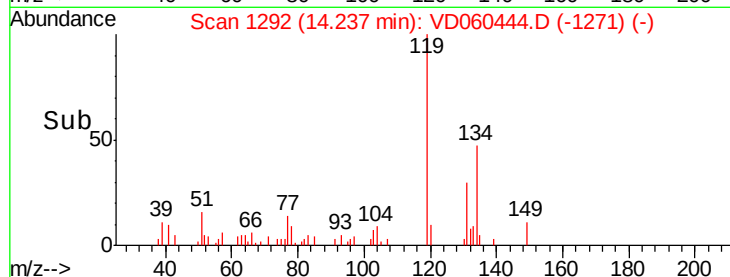
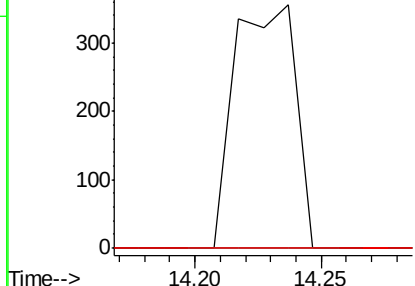
Instrument :
 MSVOA_D
 ClientSampleId :
 NB-08-112018

Tgt Ion: 75 Resp: 598
 Ion Ratio Lower Upper
 75 100
 155 0.0 64.3 192.9#
 157 0.0 81.0 243.1#



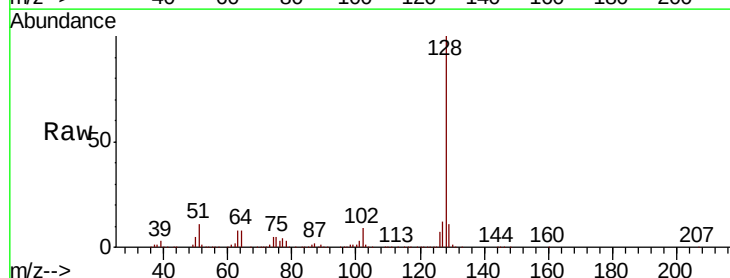
Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

14.24



#95
 Naphthalene
 Concen: 224.408 ug/l
 RT: 14.97 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VD060444.D
 Acq: 21 Nov 2018 16:01

Tgt Ion: 128 Resp: 1401981
 Ion Ratio Lower Upper
 128 100
 127 12.2 9.6 14.4
 129 11.4 8.6 12.8



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

14.97

