

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051507.D
 Acq On : 26 Sep 2018 1:18
 Operator : MD\SY
 Sample : PB113167ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#01

Quant Time: Sep 26 04:13:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	664402	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1046965	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	875335	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	312401	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	460207	55.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.58%	
35) Dibromofluoromethane	7.60	113	402214	48.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.08%	
50) Toluene-d8	10.09	98	1452419	46.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.14%	
62) 4-Bromofluorobenzene	12.40	95	392088	38.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.88%	

Target Compounds

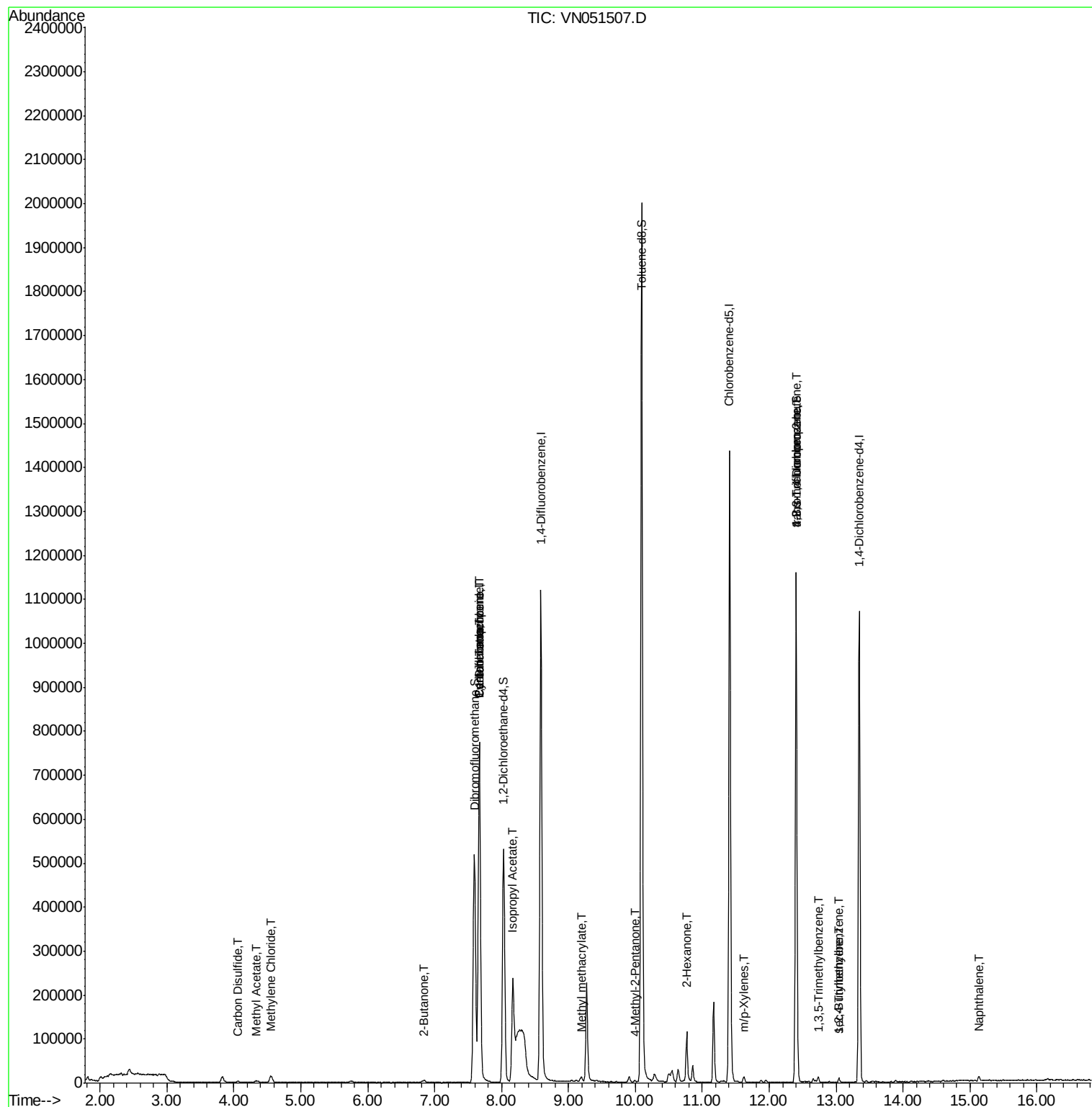
	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	115	Below Cal	#	1
16) Acetone	3.83	43	22833	Below Cal		97
17) Carbon Disulfide	4.06	76	5010	0.231	ug/l #	74
18) Methyl Acetate	4.34	43	8933	1.409	ug/l #	62
20) Methylene Chloride	4.55	84	5608	0.681	ug/l	88
25) 2-Butanone	6.85	43	3263	1.145	ug/l #	84
31) Cyclohexane	7.66	56	12215	0.932	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47021	3.878	ug/l #	43
38) Carbon Tetrachloride	7.67	117	61349	4.838	ug/l #	16
43) Isopropyl Acetate	8.17	43	312500	24.791	ug/l	93
48) Methyl methacrylate	9.18	41	6786	1.080	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	2835	0.409	ug/l #	84
59) 2-Hexanone	10.76	43	16776	3.733	ug/l #	56
68) m/p-Xylenes	11.62	106	3778	0.258	ug/l	98
76) 1,2,3-Trichloropropane	12.40	75	192588	37.136	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5118	0.238	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	192588	114.190	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	5599	0.259	ug/l	100
85) sec-Butylbenzene	13.04	105	5599	0.216	ug/l #	56
95) Naphthalene	15.13	128	8753	8.677	ug/l	98

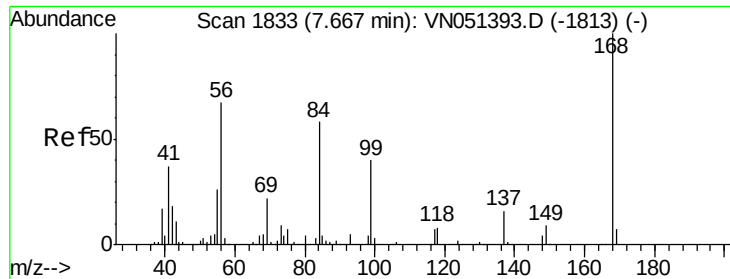
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051507.D

Acq: 26 Sep 2018 1:18

Instrument :

MSVOA_N

ClientSampleId :

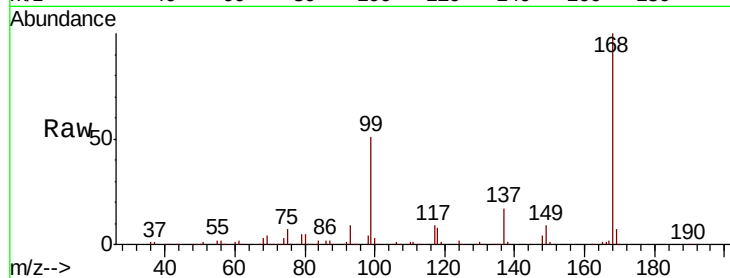
PB113167ZHE#01

Tot Ion:168 Resp: 664402

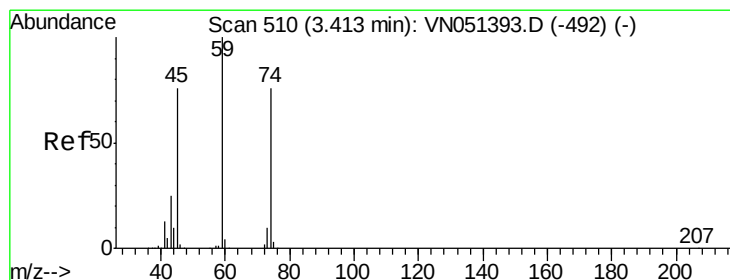
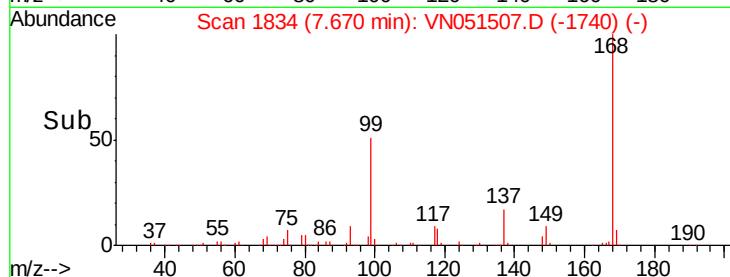
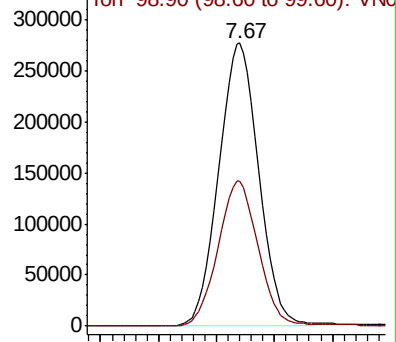
Ion Ratio Lower Upper

168 100

99 51.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)



#8

Diethyl Ether

Concen: Below Cal

RT: 3.41 min Scan# 508

Delta R.T. -0.01 min

Lab File: VN051507.D

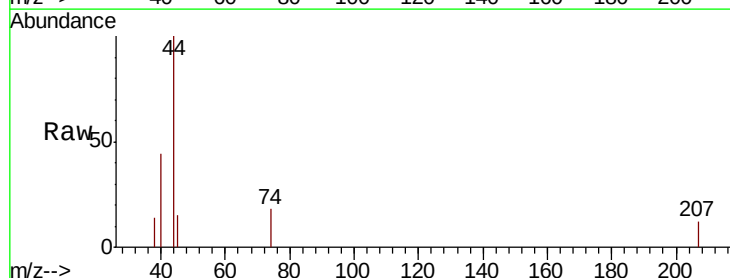
Acq: 26 Sep 2018 1:18

Tgt Ion: 74 Resp: 115

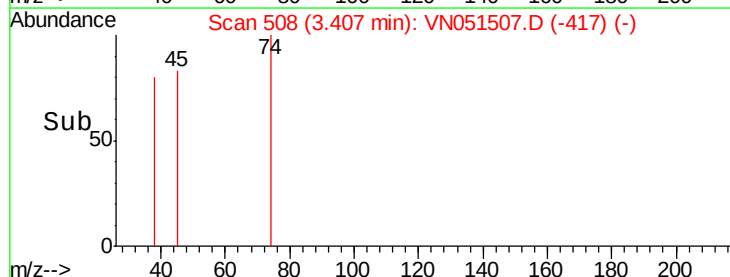
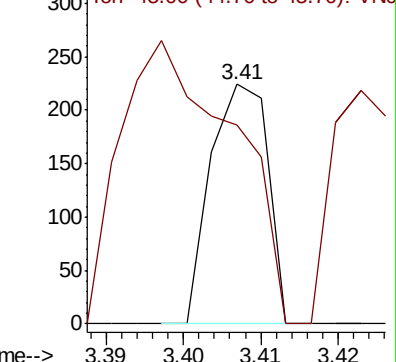
Ion Ratio Lower Upper

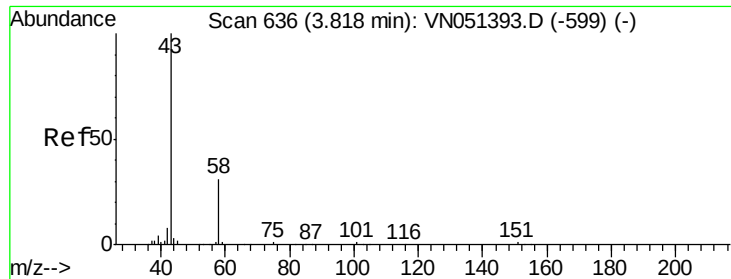
74 100

45 233.9 50.2 150.7#



Abundance Ion 74.00 (73.70 to 74.70): VN051393.D (-492) (-)





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051507.D

Acq: 26 Sep 2018 1:18

Instrument :

MSVOA_N

ClientSampleId :

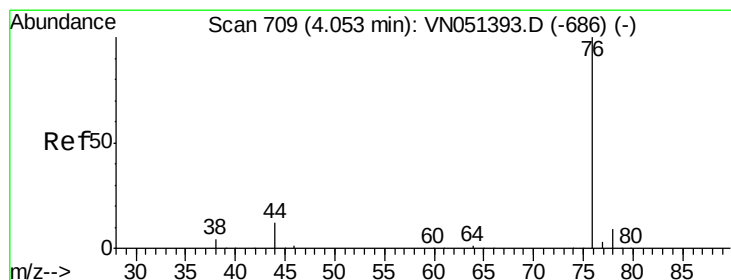
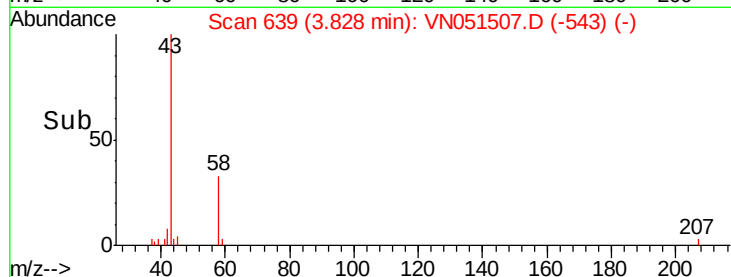
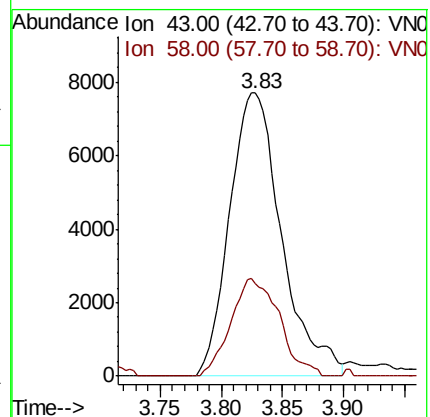
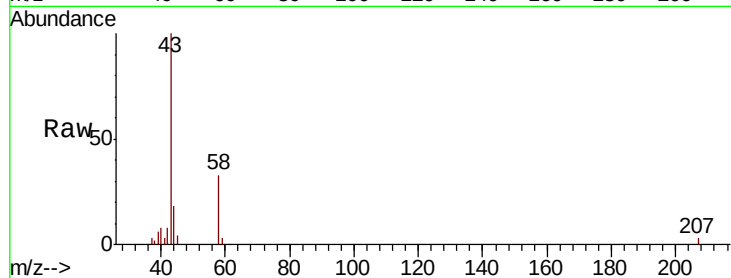
PB113167ZHE#01

Tot Ion: 43 Resp: 22833

Ion Ratio Lower Upper

43 100

58 32.6 25.0 37.4



#17

Carbon Disulfide

Concen: 0.231 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.01 min

Lab File: VN051507.D

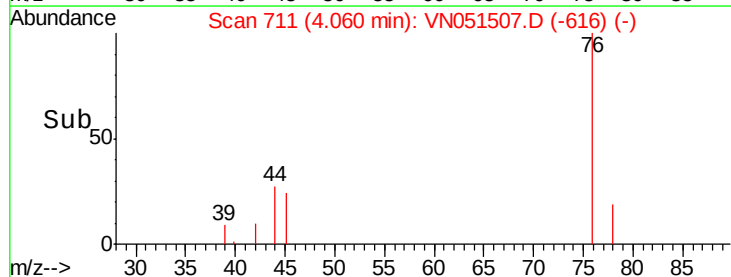
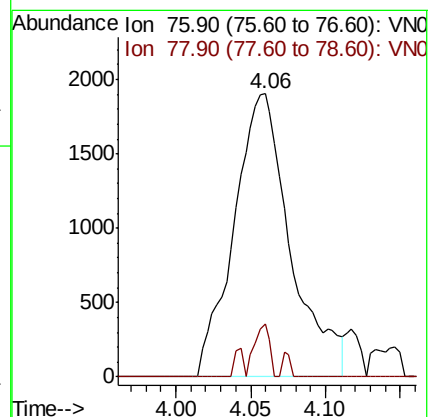
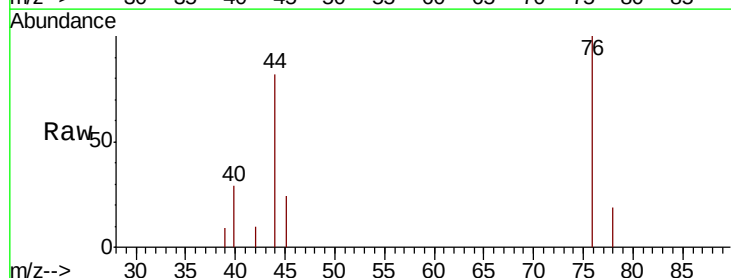
Acq: 26 Sep 2018 1:18

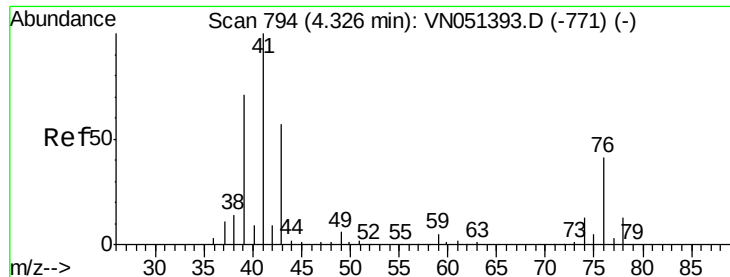
Tgt Ion: 76 Resp: 5010

Ion Ratio Lower Upper

76 100

78 18.6 7.3 10.9#

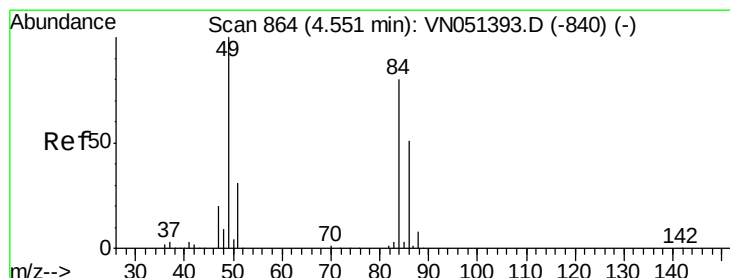
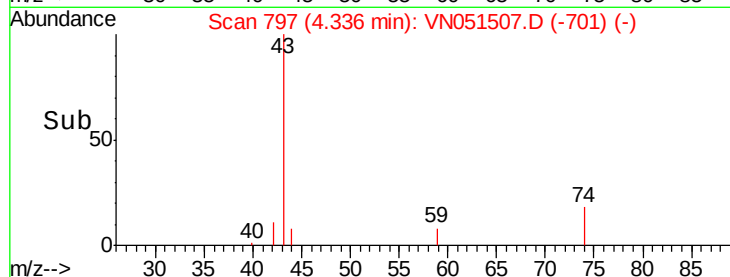
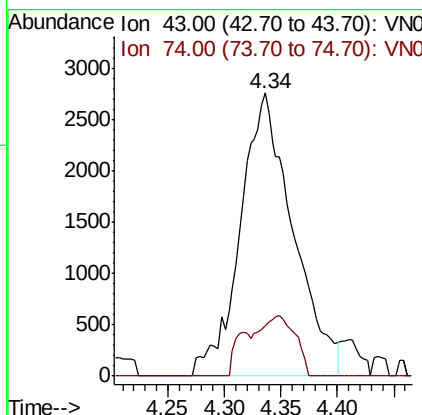
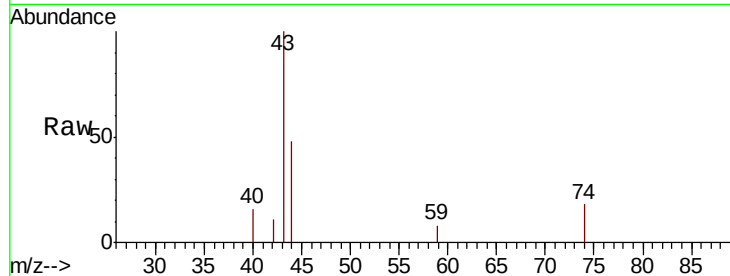




#18
Methyl Acetate
Concen: 1.409 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051507.D
Acq: 26 Sep 2018 1:18

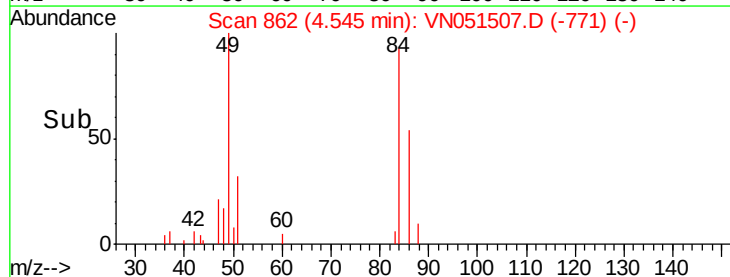
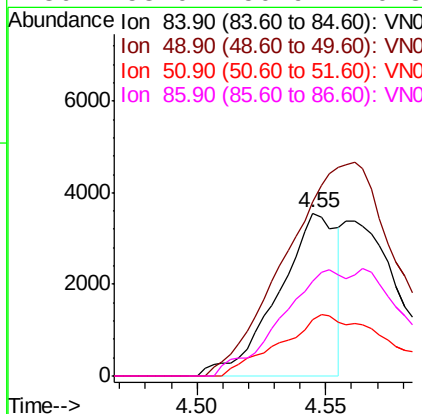
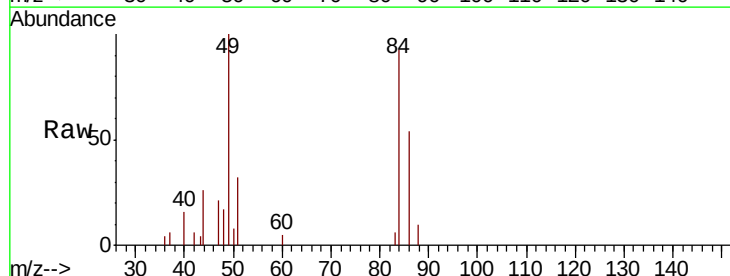
Instrument :
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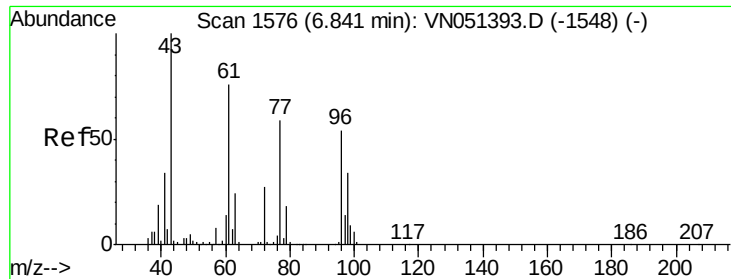
Tot Ion: 43 Resp: 8933
Ion Ratio Lower Upper
43 100
74 4.8 18.8 28.2#



#20
Methylene Chloride
Concen: 0.681 ug/l
RT: 4.55 min Scan# 862
Delta R.T. -0.01 min
Lab File: VN051507.D
Acq: 26 Sep 2018 1:18

Tgt Ion: 84 Resp: 5608
Ion Ratio Lower Upper
84 100
49 107.0 99.9 149.9
51 34.7 31.4 47.2
86 58.0 50.9 76.3

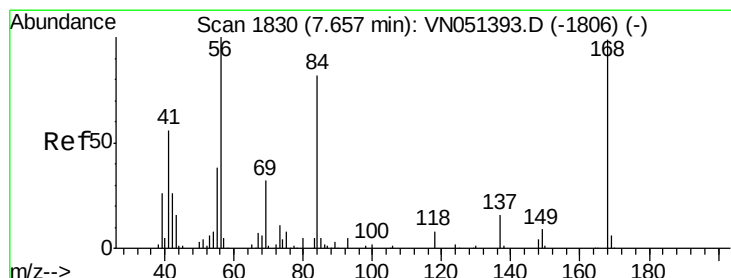
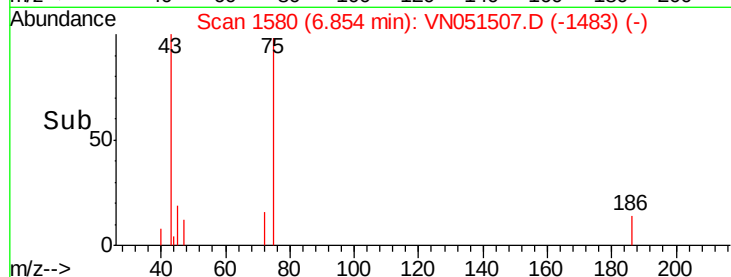
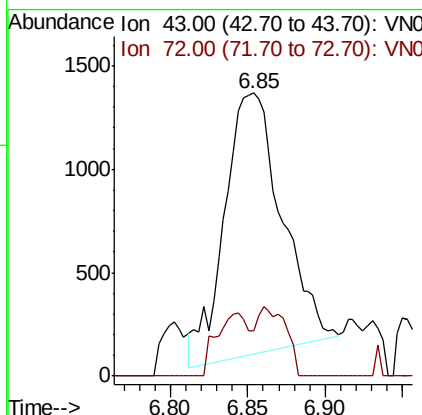
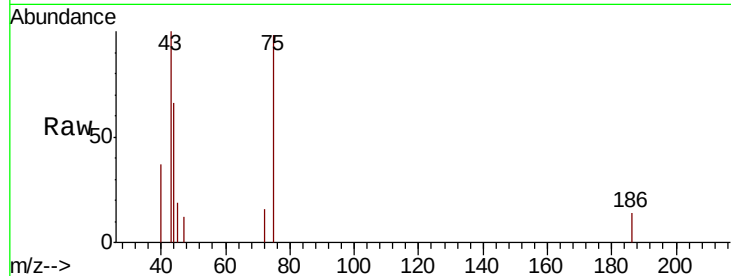




#25
2-Butanone
Concen: 1.145 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN051507.D
Acq: 26 Sep 2018 1:18

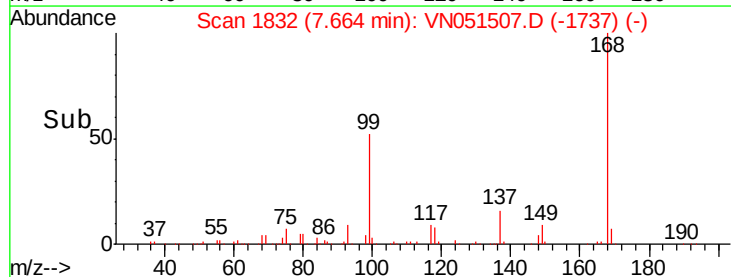
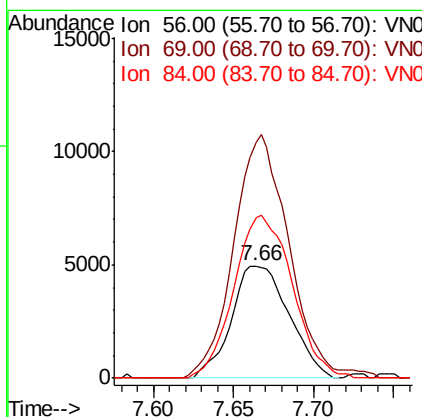
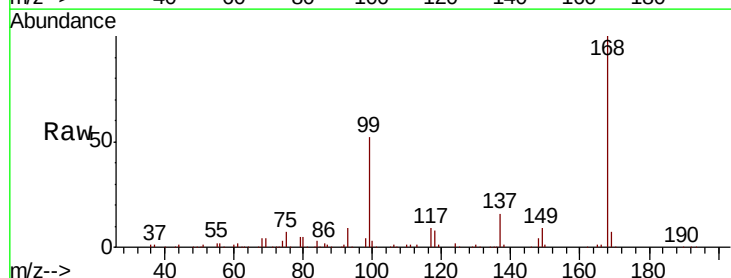
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#01

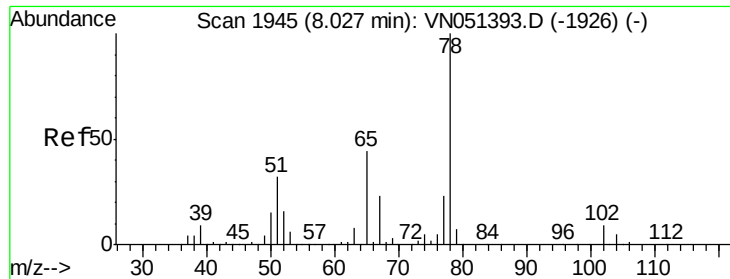
Tot Ion: 43 Resp: 3263
Ion Ratio Lower Upper
43 100
72 18.9 21.8 32.6#



#31
Cyclohexane
Concen: 0.932 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051507.D
Acq: 26 Sep 2018 1:18

Tgt Ion: 56 Resp: 12215
Ion Ratio Lower Upper
56 100
69 207.6 25.8 38.6#
84 143.3 66.0 99.0#

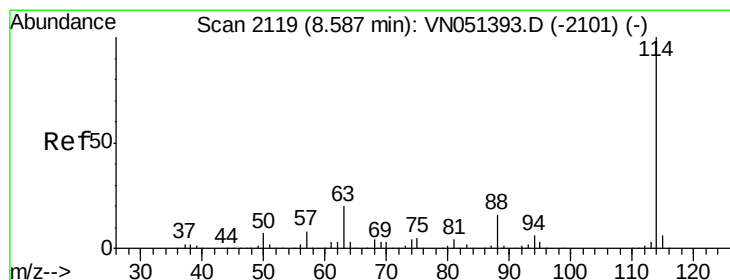
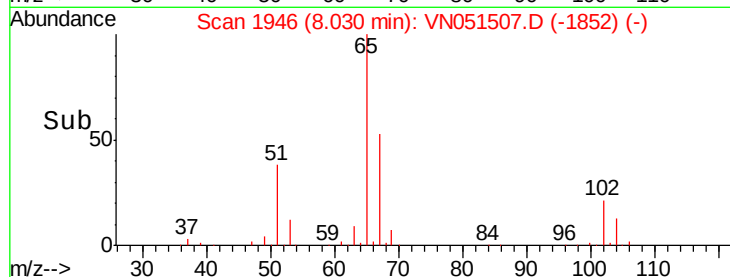
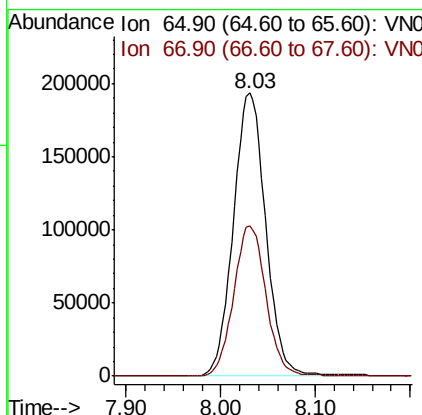
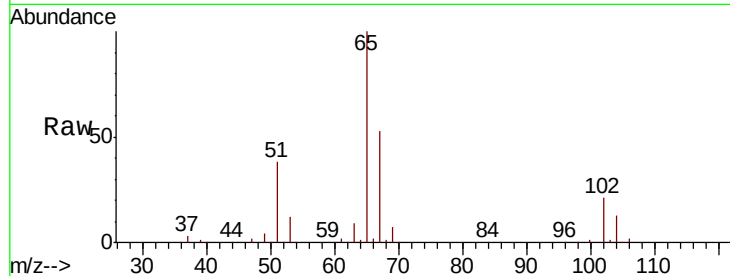




#33
 1,2-Dichloroethane-d4
 Concen: 55.294 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

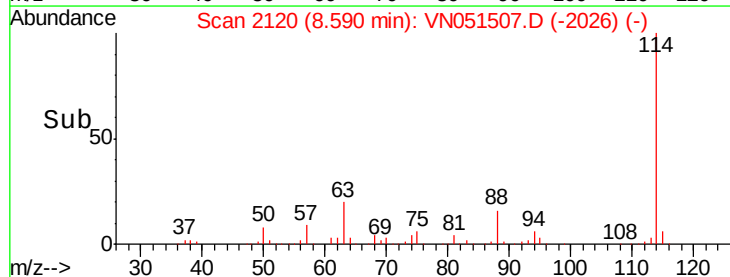
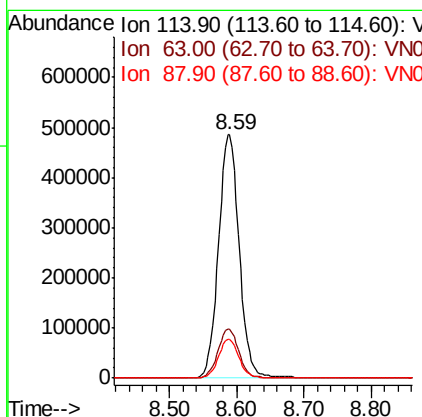
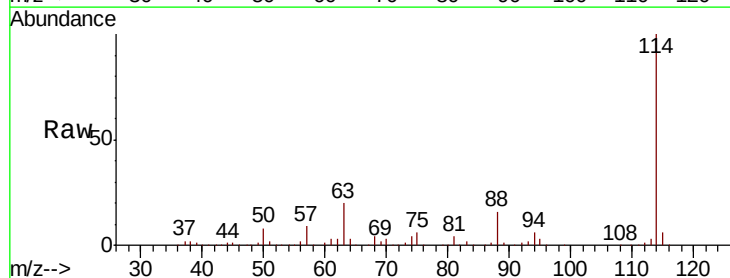
Instrument :
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 ClientSampleId :
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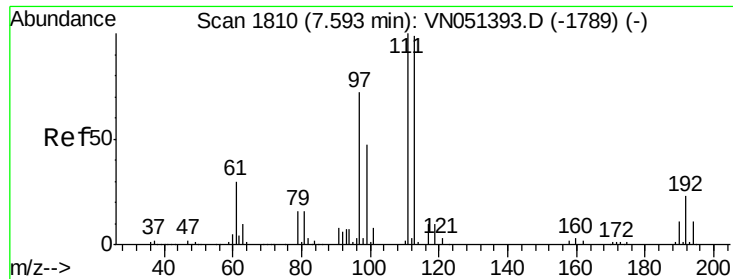
Tot Ion: 65 Resp: 460207
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

Tgt Ion: 114 Resp: 1046965
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.2
 88 15.7 0.0 31.4

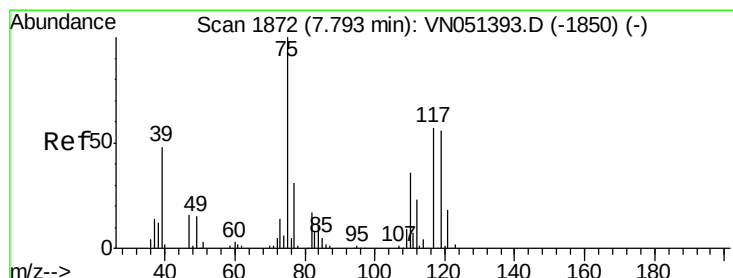
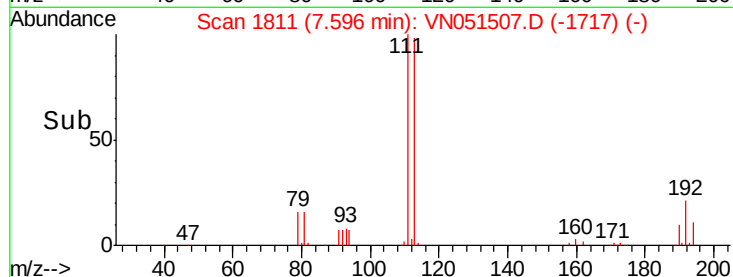
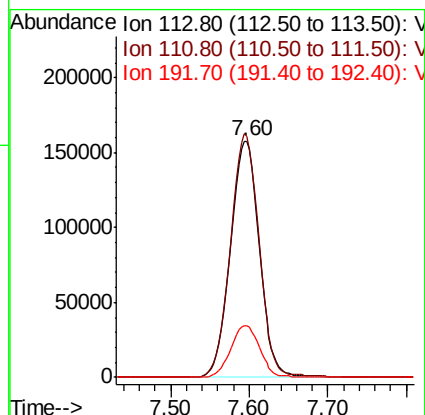
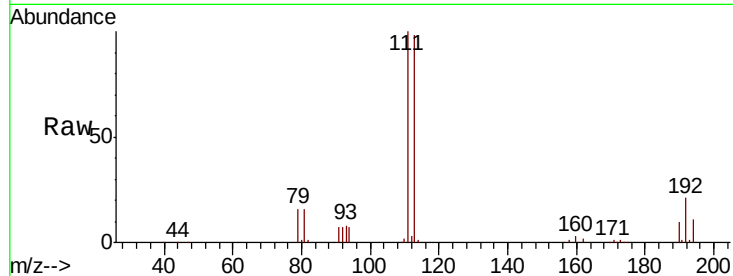




#35
 Dibromofluoromethane
 Concen: 48.042 ug/l
 RT: 7.60 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

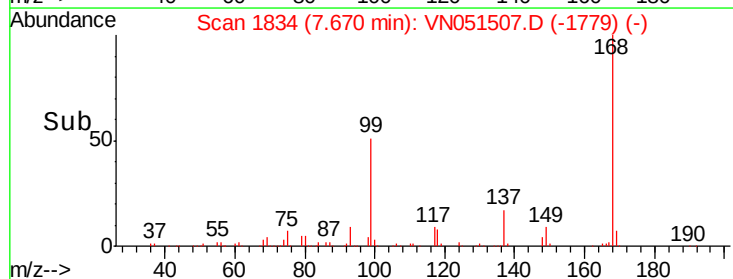
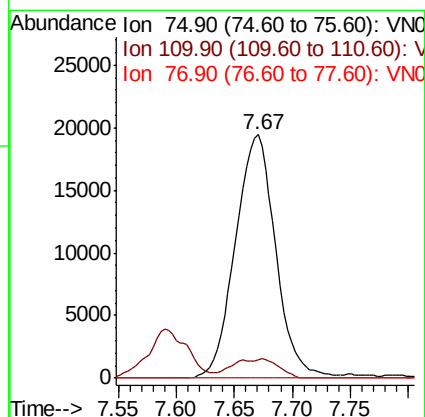
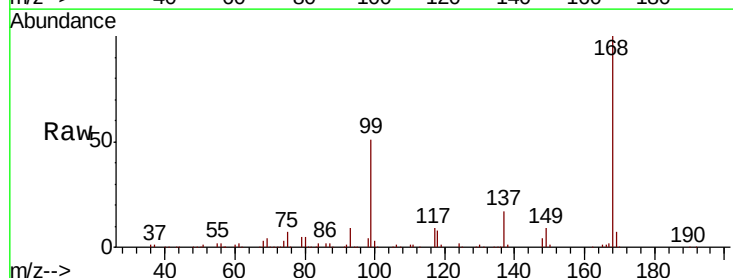
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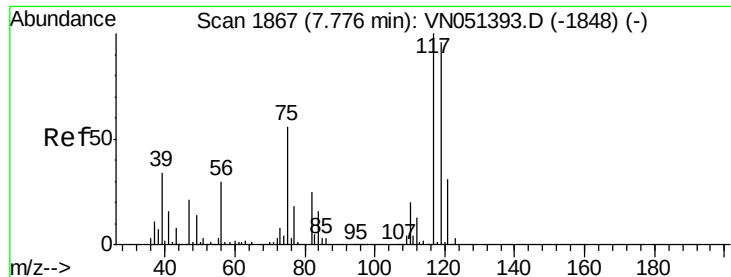
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.6	123.8
192	22.0	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.878 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	2.5	18.1	54.3#
77	0.0	25.6	38.4#

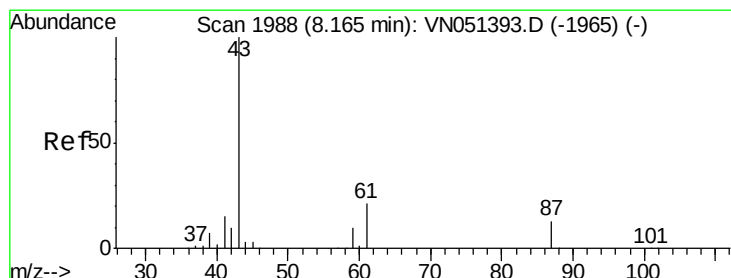
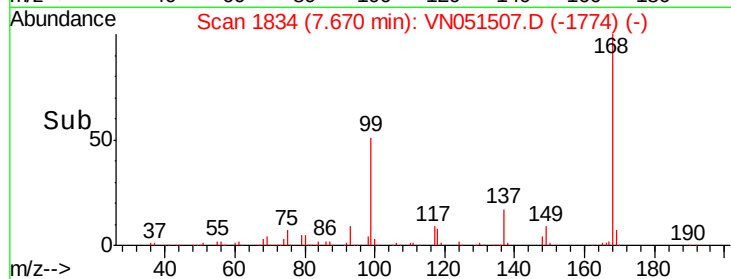
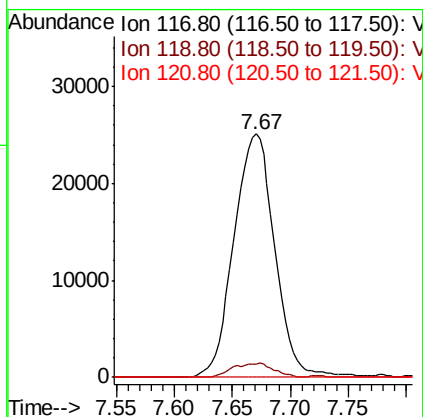
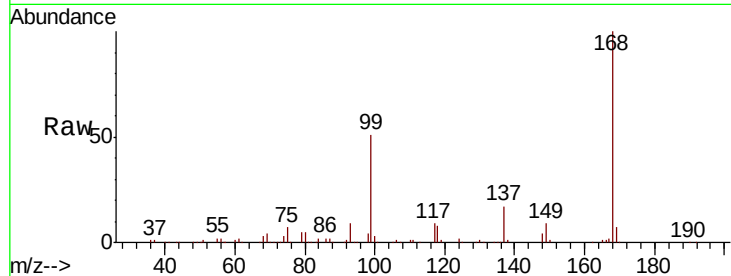




#38
 Carbon Tetrachloride
 Concen: 4.838 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

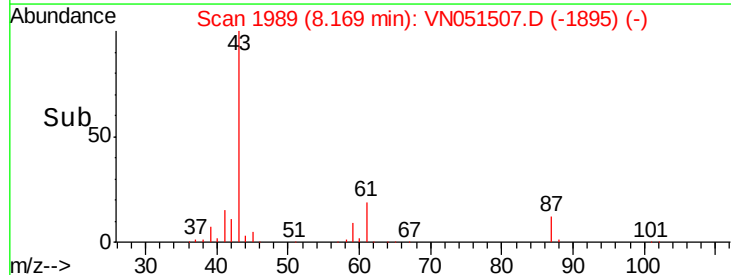
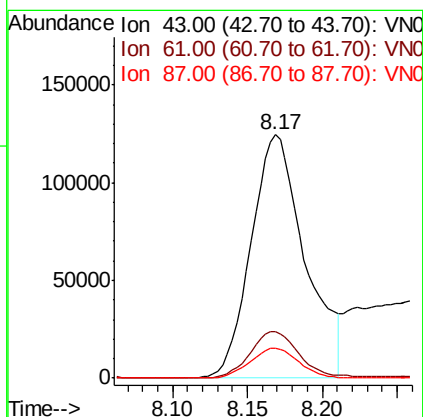
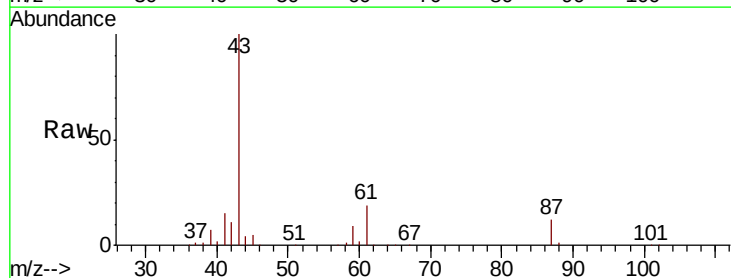
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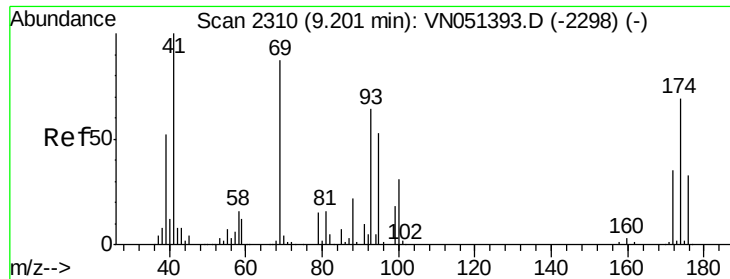
Tot Ion:117 Resp: 61349
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.9 115.3#
 121 0.0 24.6 37.0#



#43
 Isopropyl Acetate
 Concen: 24.791 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. 0.00 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

Tgt Ion: 43 Resp: 312500
 Ion Ratio Lower Upper
 43 100
 61 17.6 16.8 25.2
 87 11.1 10.7 16.1

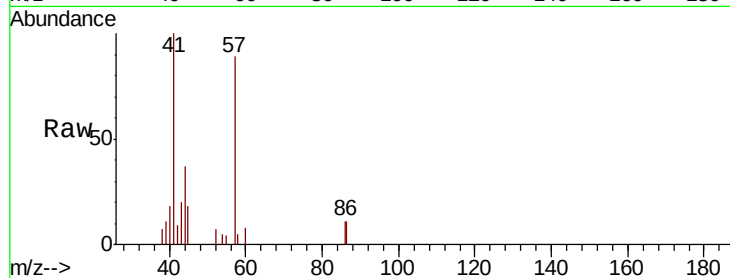




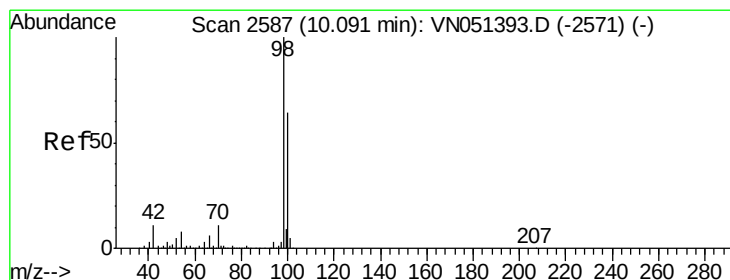
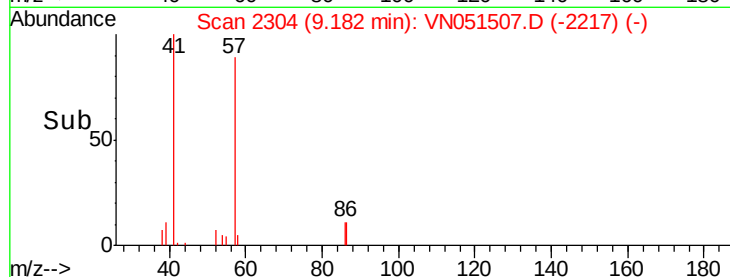
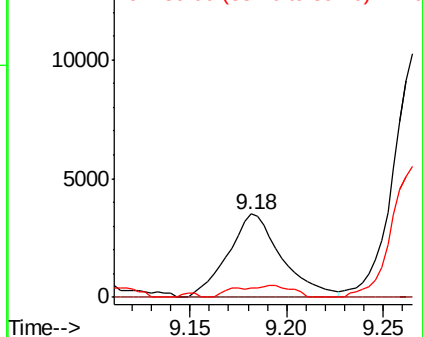
#48
Methvl methacrylate
Concen: 1.080 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051507.D
Acq: 26 Sep 2018 1:18

Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#01

Tot Ion: 41 Resp: 6786
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 9.1 43.8 65.8#

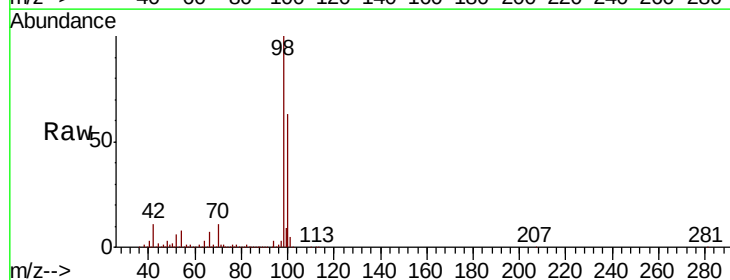


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

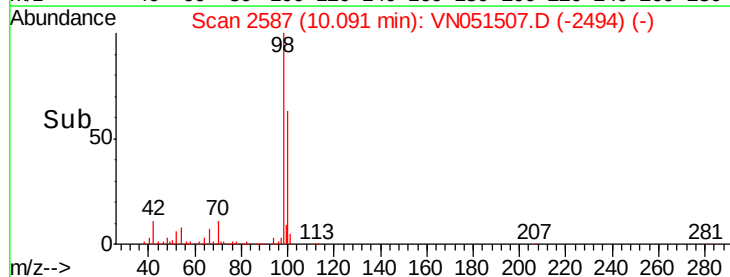
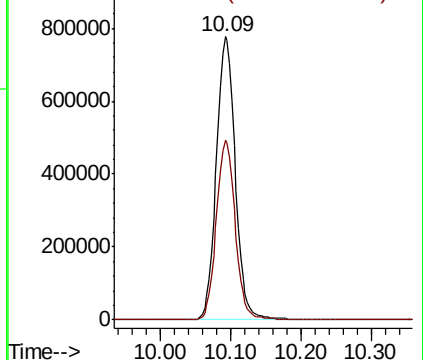


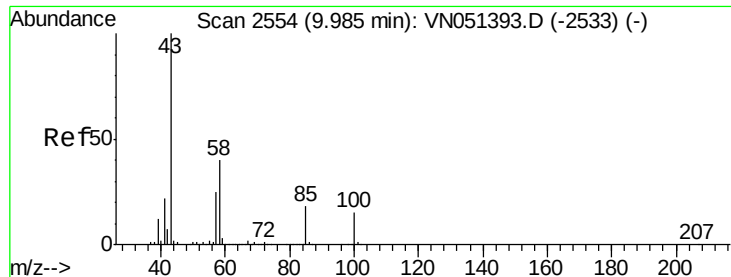
#50
Toluene-d8
Concen: 46.070 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051507.D
Acq: 26 Sep 2018 1:18

Tgt Ion: 98 Resp: 1452419
Ion Ratio Lower Upper
98 100
100 63.5 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

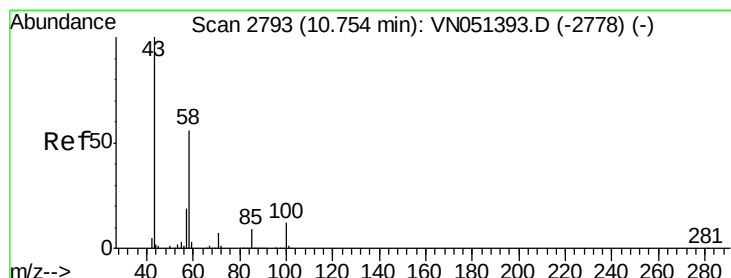
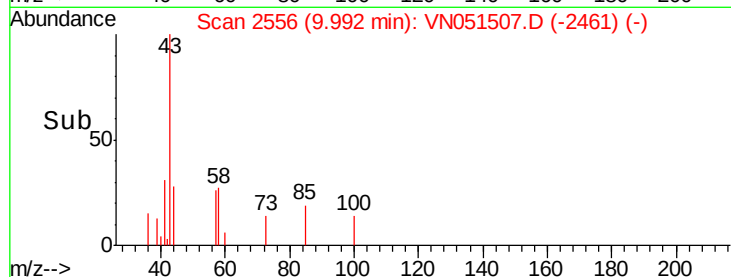
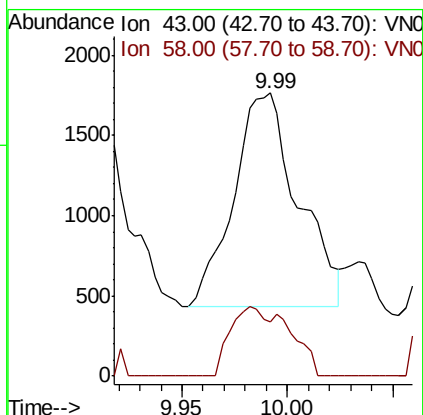
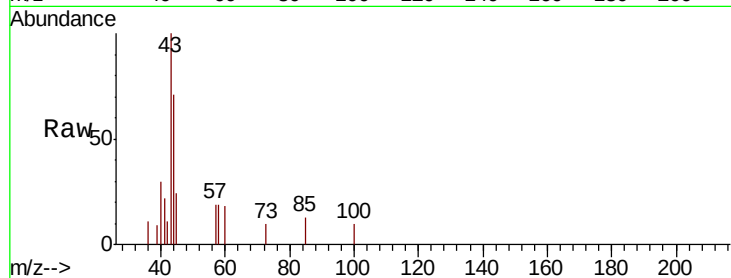




#51
 4-Methyl-2-Pentanone
 Concen: 0.409 ug/l
 RT: 9.99 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

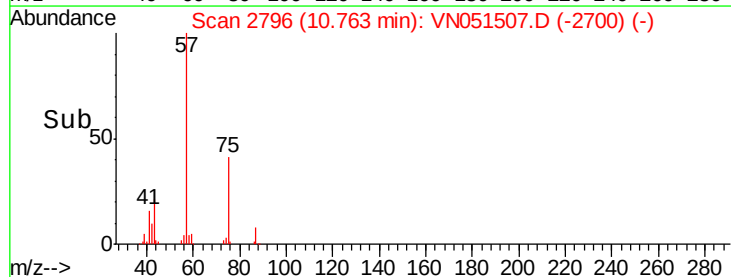
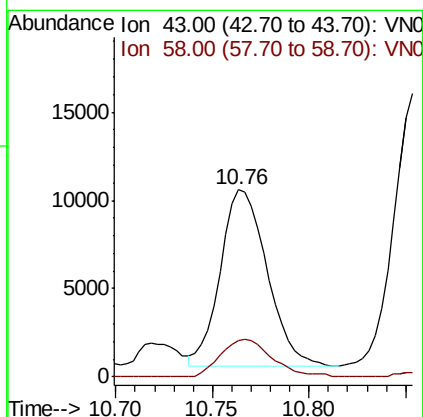
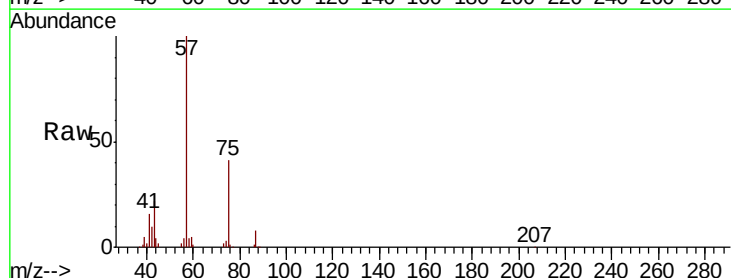
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#01

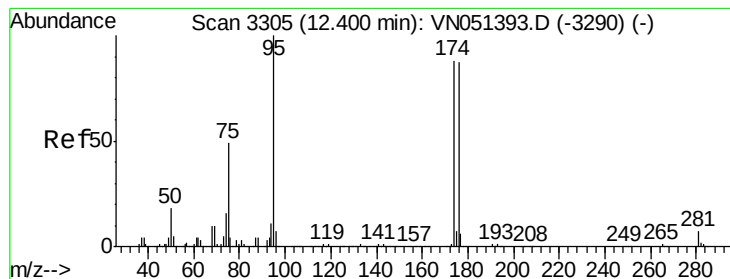
Tot Ion: 43 Resp: 2835
 Ion Ratio Lower Upper
 43 100
 58 29.6 31.5 47.3#



#59
 2-Hexanone
 Concen: 3.733 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

Tgt Ion: 43 Resp: 16776
 Ion Ratio Lower Upper
 43 100
 58 23.6 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 38.445 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051507.D

Acq: 26 Sep 2018 1:18

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#01

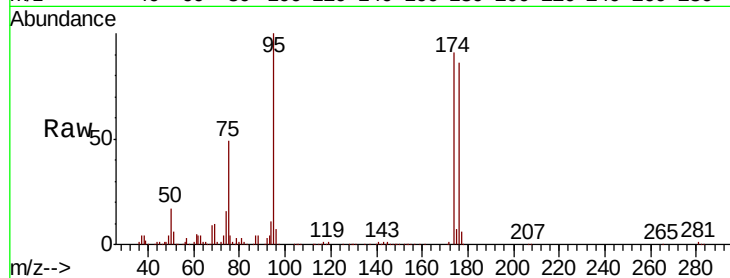
Tot Ion: 95 Resp: 392088

Ion Ratio Lower Upper

95 100

174 89.9 0.0 181.6

176 86.1 0.0 176.4

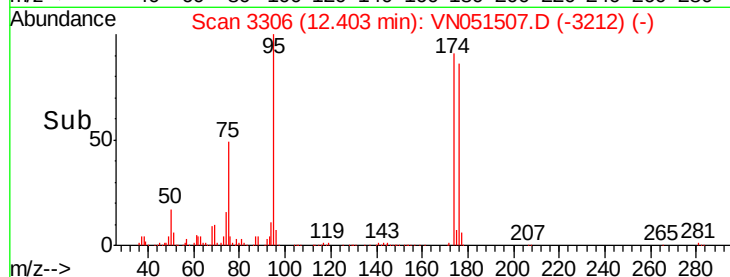


Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)

Time-->

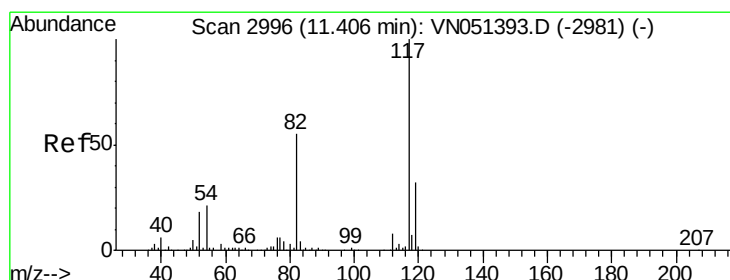


Abundance Ion 94.90 (94.60 to 95.60): VN051507.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN051507.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN051507.D (-3212) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN051507.D

Acq: 26 Sep 2018 1:18

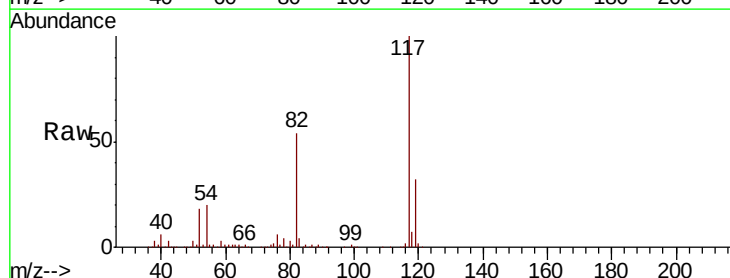
Tgt Ion: 117 Resp: 875335

Ion Ratio Lower Upper

117 100

82 54.0 44.2 66.2

119 32.2 25.9 38.9

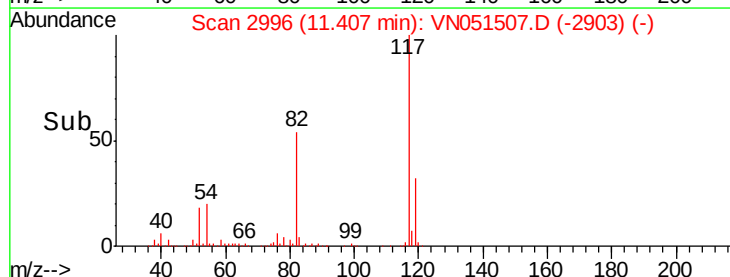


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)

Time-->

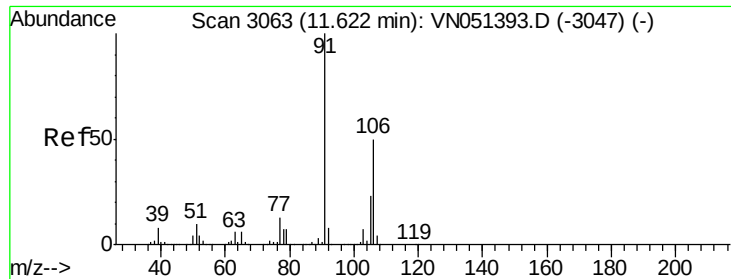


Abundance Ion 116.90 (116.60 to 117.60): VN051507.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN051507.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN051507.D (-2903) (-)

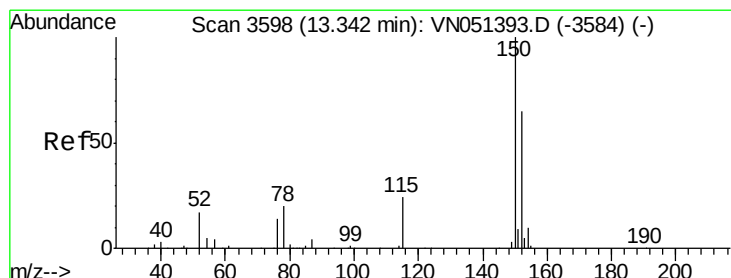
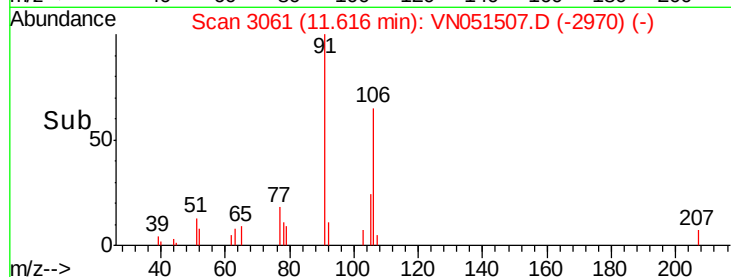
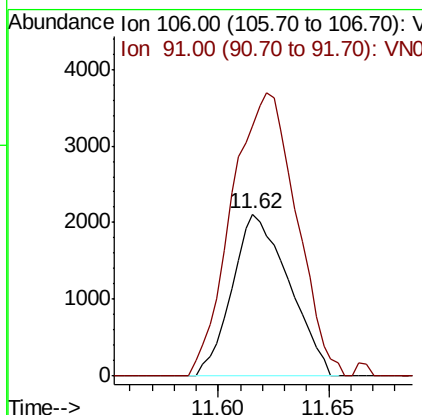
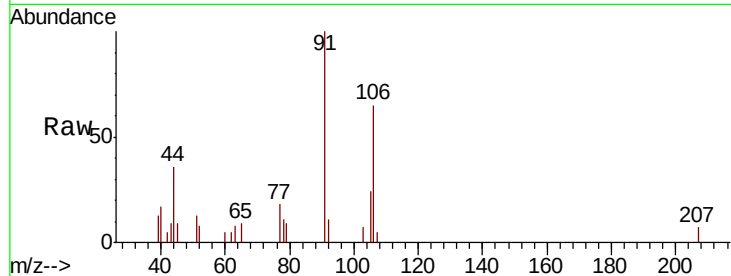
Time-->



#68
m/p-Xylenes
Concen: 0.258 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN051507.D
Acq: 26 Sep 2018 1:18

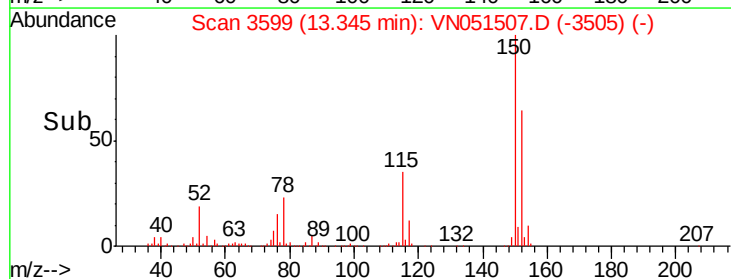
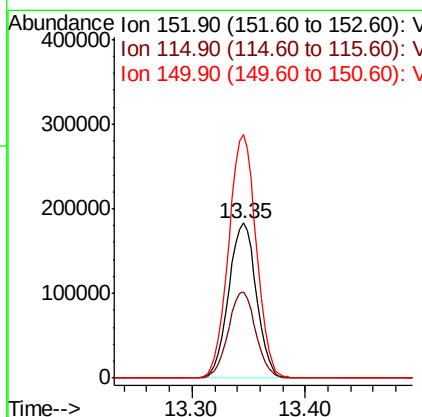
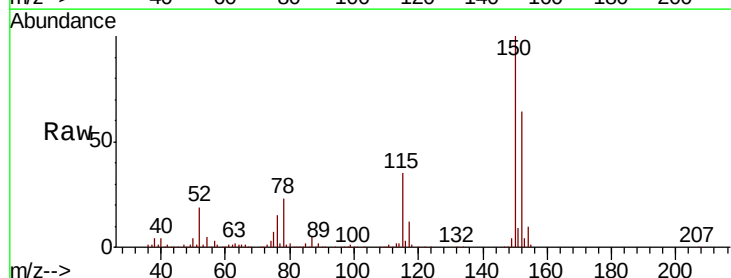
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#01

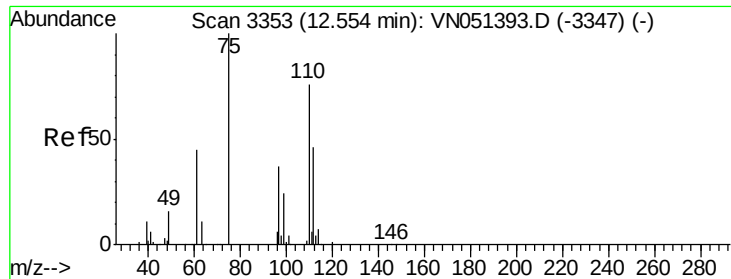
Tot Ion:106 Resp: 3778
Ion Ratio Lower Upper
106 100
91 199.1 161.3 241.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051507.D
Acq: 26 Sep 2018 1:18

Tgt Ion:152 Resp: 312401
Ion Ratio Lower Upper
152 100
115 55.2 28.3 84.9
150 156.3 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 37.136 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051507.D

Acq: 26 Sep 2018 1:18

Instrument :

MSVOA_N

ClientSampleId :

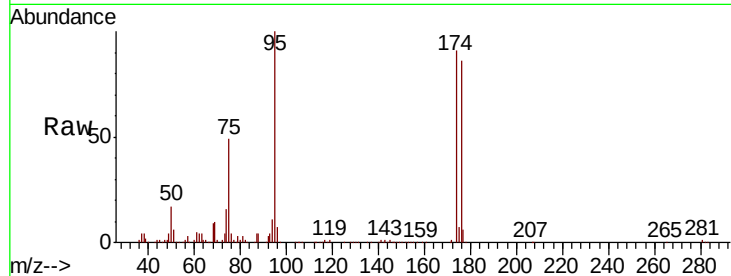
PB113167ZHE#01

Tot Ion: 75 Resp: 192588

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN051393.D (-3347) (-)

12.40

100000

80000

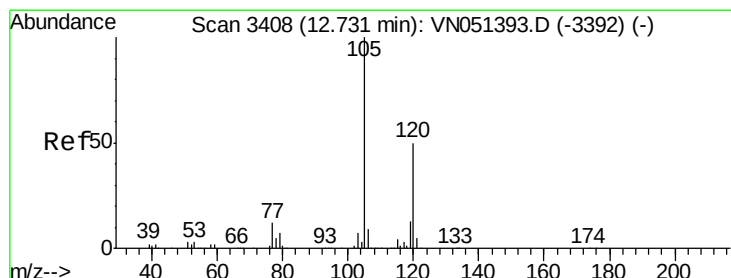
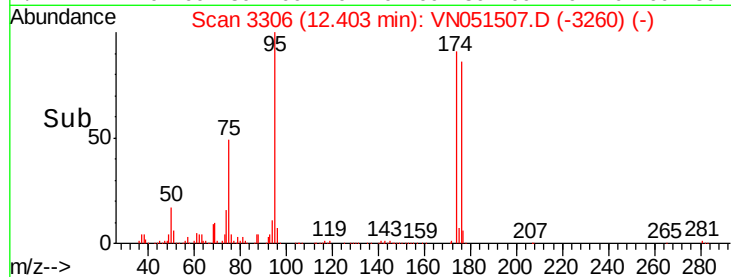
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.238 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051507.D

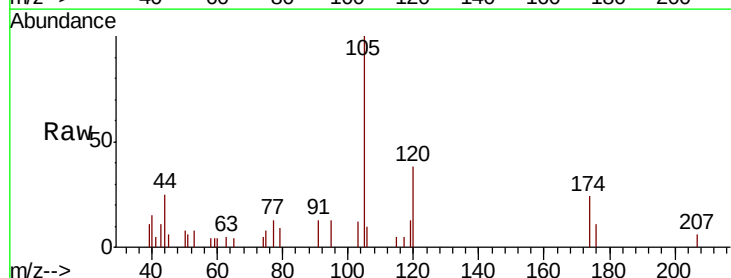
Acq: 26 Sep 2018 1:18

Tgt Ion: 105 Resp: 5118

Ion Ratio Lower Upper

105 100

120 43.6 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VN051393.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN051393.D (-3392) (-)

12.73

4000

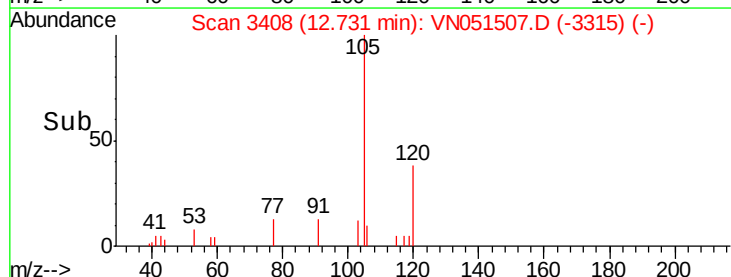
3000

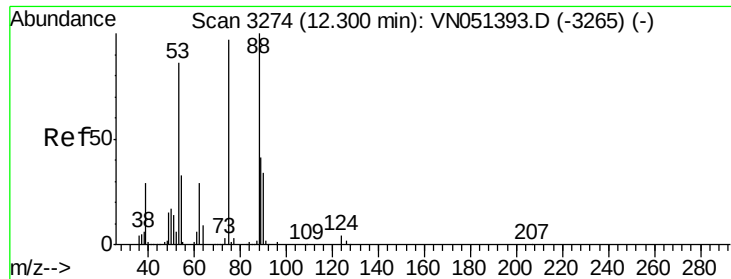
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 114.190 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051507.D

Acq: 26 Sep 2018 1:18

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#01

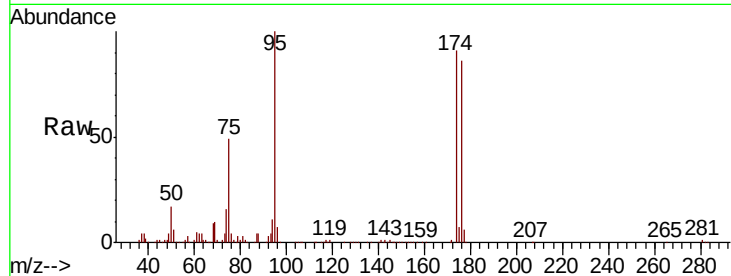
Tot Ion: 75 Resp: 192588

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

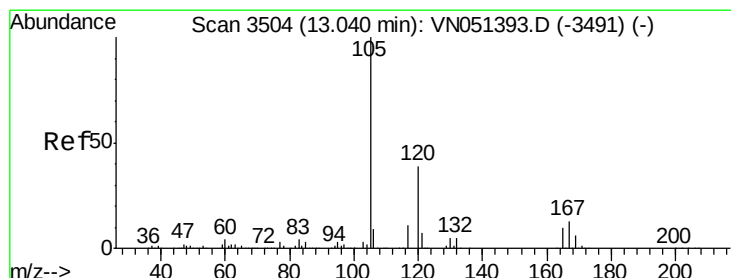
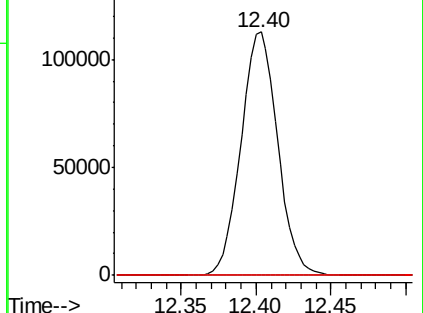
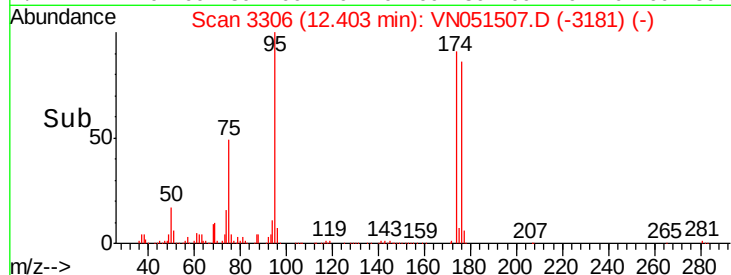
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051507.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN051507.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN051507.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.259 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051507.D

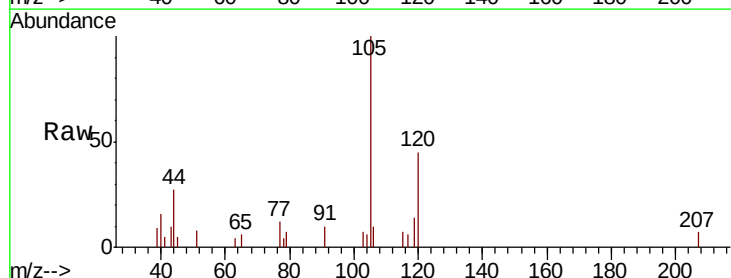
Acq: 26 Sep 2018 1:18

Tgt Ion: 105 Resp: 5599

Ion Ratio Lower Upper

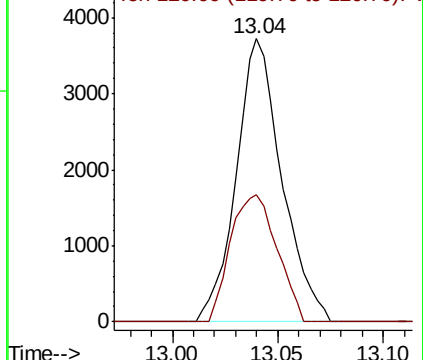
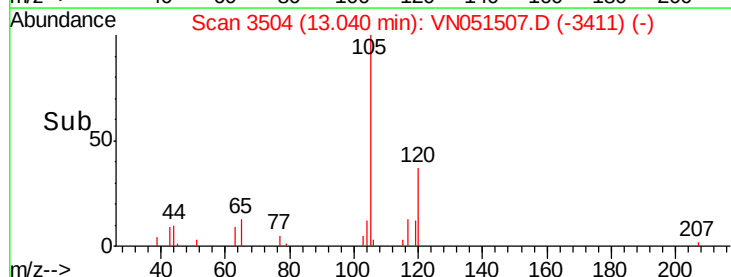
105 100

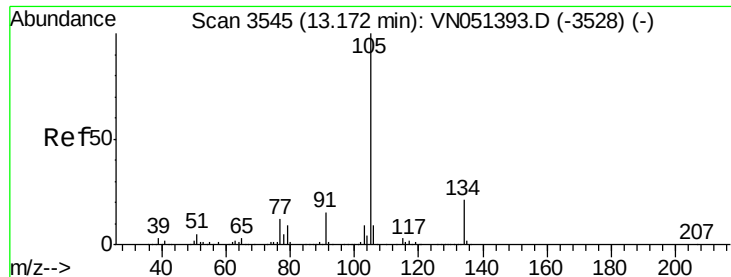
120 45.7 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): VN051507.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN051507.D (-3411) (-)

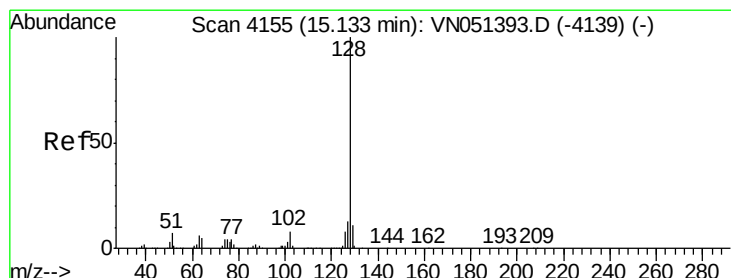
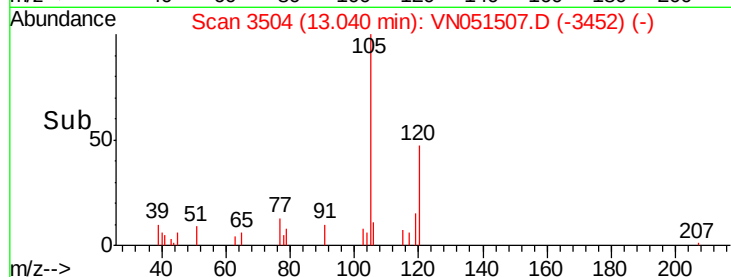
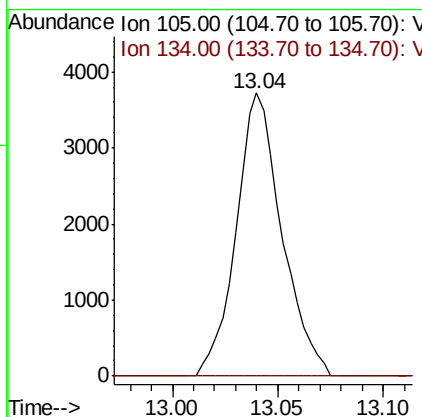
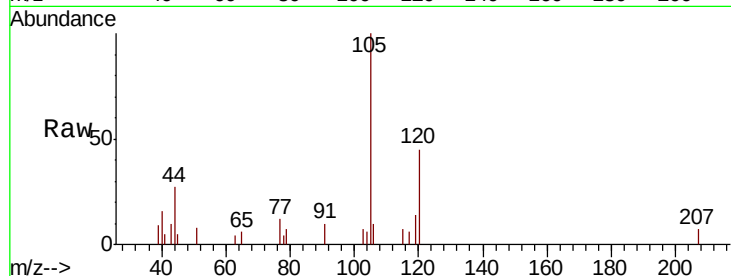




#85
 sec-Butylbenzene
 Concen: 0.216 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.13 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#01

Tot Ion:105 Resp: 5599
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.1#



#95
 Naphthalene
 Concen: 8.677 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN051507.D
 Acq: 26 Sep 2018 1:18

Tgt Ion:128 Resp: 8753
 Ion Ratio Lower Upper
 128 100
 127 12.7 10.5 15.7
 129 9.8 8.6 12.8

