

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051508.D
 Acq On : 26 Sep 2018 1:43
 Operator : MD\SY
 Sample : PB113167ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#02

Quant Time: Sep 26 04:13:36 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	637872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1040372	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	850435	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	299179	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	452056	56.57	ug/l	0.00
Spiked Amount			Recovery	=	113.14%	
35) Dibromofluoromethane	7.59	113	395803	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
50) Toluene-d8	10.09	98	1421784	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	
62) 4-Bromofluorobenzene	12.40	95	378133	37.31	ug/l	0.00
Spiked Amount			Recovery	=	74.62%	

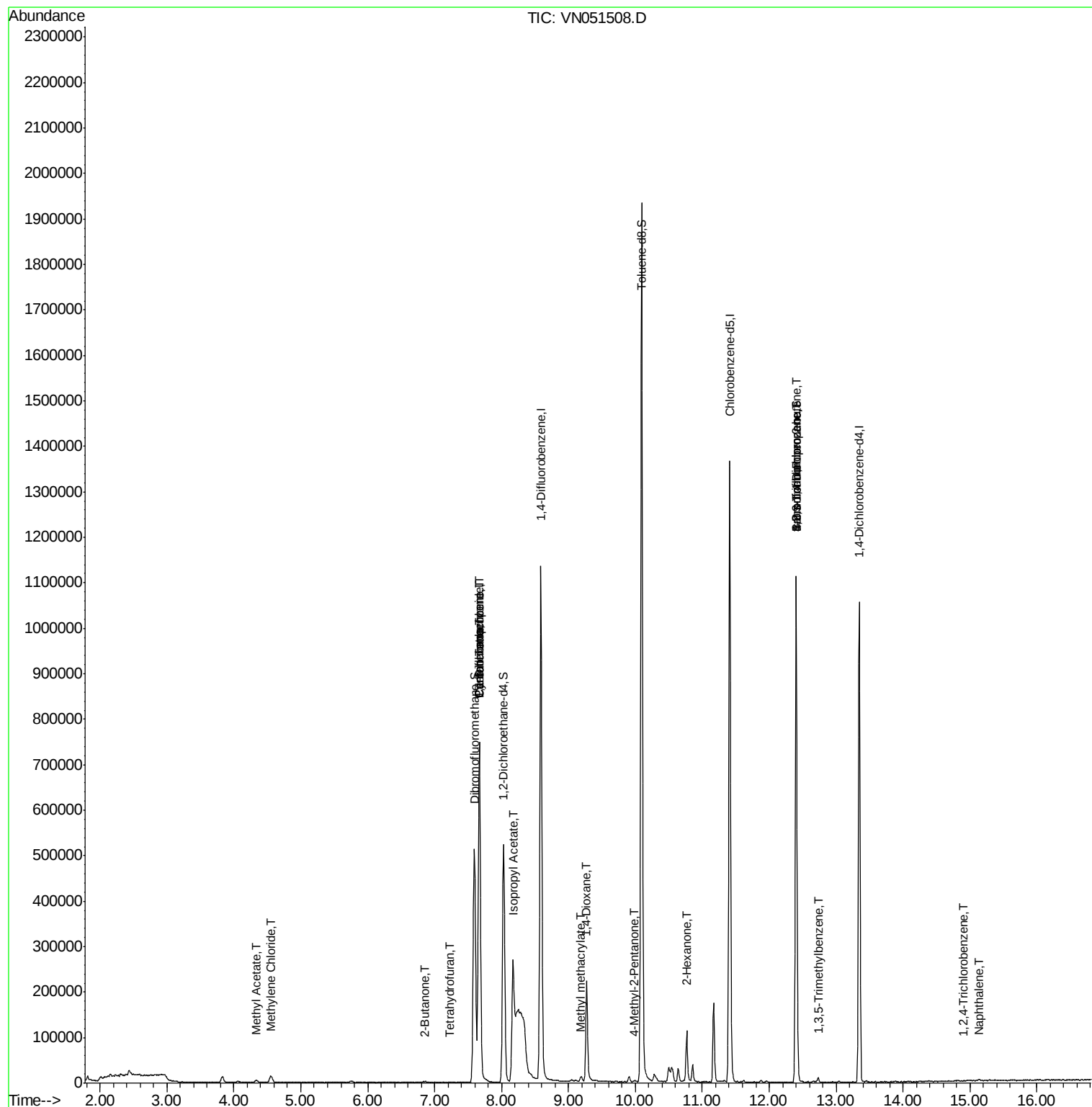
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	29	Below Cal	#	1
16) Acetone	3.82	43	22046	Below Cal		97
18) Methyl Acetate	4.33	43	11306	1.858	ug/l #	87
20) Methylene Chloride	4.55	84	11384	1.440	ug/l	90
25) 2-Butanone	6.85	43	1351	0.494	ug/l	96
29) Tetrahydrofuran	7.22	42	1051	0.606	ug/l #	44
31) Cyclohexane	7.67	56	12292	0.977	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44277	3.675	ug/l #	49
38) Carbon Tetrachloride	7.67	117	59155	4.694	ug/l #	16
43) Isopropyl Acetate	8.17	43	343432	27.418	ug/l #	91
48) Methyl methacrylate	9.18	41	7451	1.193	ug/l #	18
49) 1,4-Dioxane	9.27	88	32	0.418	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	2511	0.365	ug/l #	73
59) 2-Hexanone	10.77	43	15935	3.568	ug/l #	58
71) Bromoform	12.40	173	1749	0.310	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	185998	37.450	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4321	0.210	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	185998	115.156	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	81	5.994	ug/l #	11
95) Naphthalene	15.14	128	1671	8.170	ug/l #	74

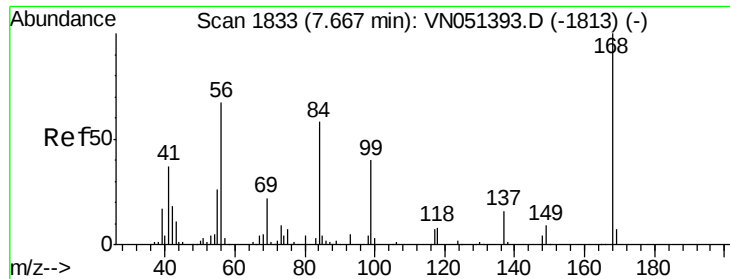
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051508.D

Acq: 26 Sep 2018 1:43

Instrument :

MSVOA_N

ClientSampleId :

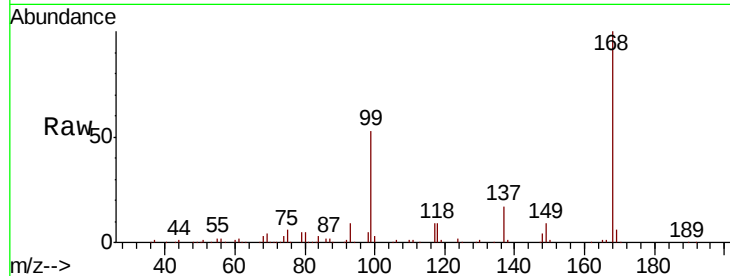
PB113167ZHE#02

Tot Ion:168 Resp: 637872

Ion Ratio Lower Upper

168 100

99 52.7 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051508.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051508.D (-1740) (-)

7.67

250000

200000

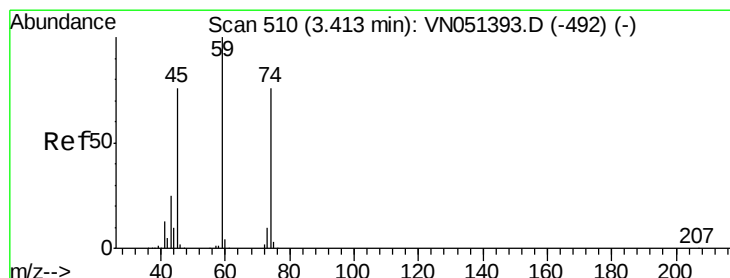
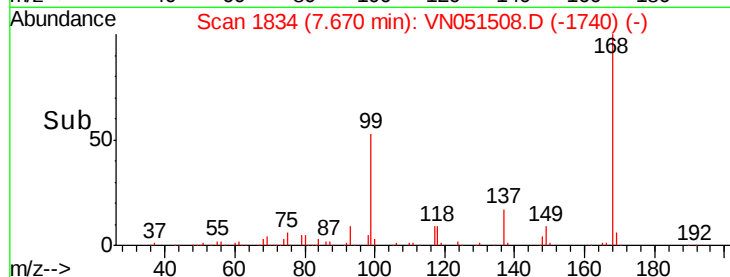
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN051508.D

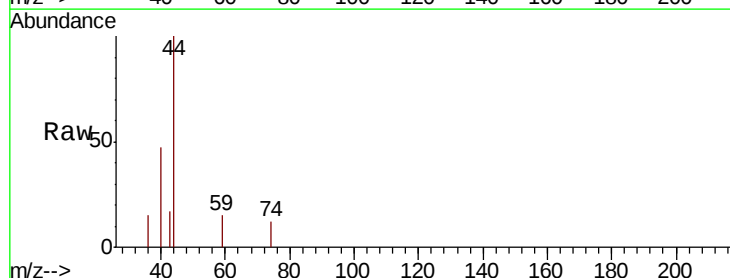
Acq: 26 Sep 2018 1:43

Tgt Ion: 74 Resp: 29

Ion Ratio Lower Upper

74 100

45 534.5 50.2 150.7#



Abundance Ion 74.00 (73.70 to 74.70): VN051508.D (-417) (-)

Ion 45.00 (44.70 to 45.70): VN051508.D (-417) (-)

3.41

250

200

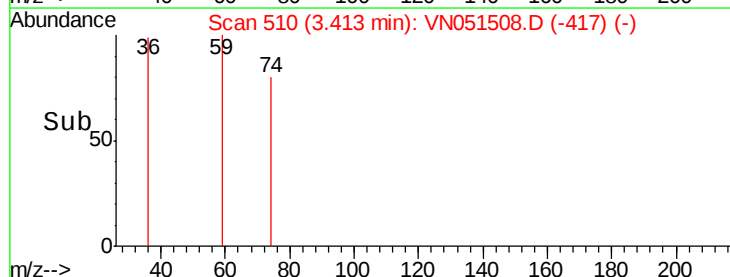
150

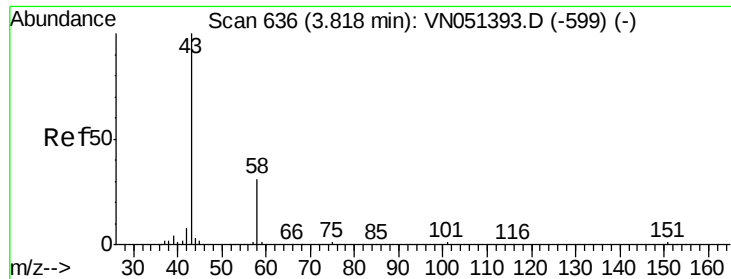
100

50

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

Instrument :

MSVOA_N

ClientSampleId :

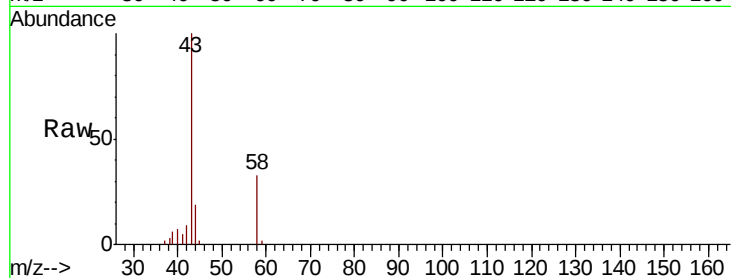
PB113167ZHE#02

Tot Ion: 43 Resp: 22046

Ion Ratio Lower Upper

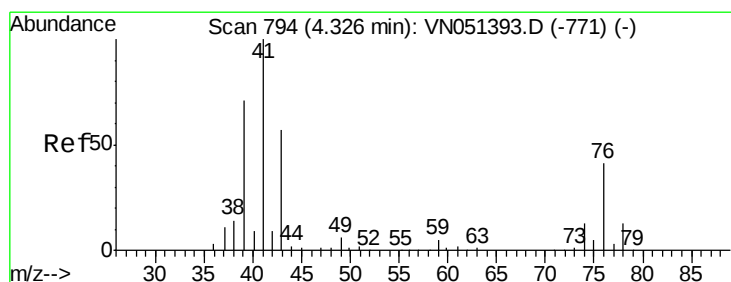
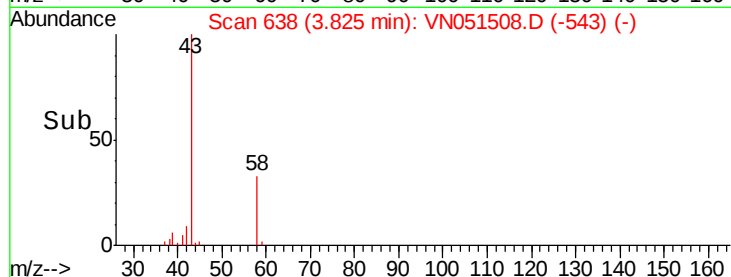
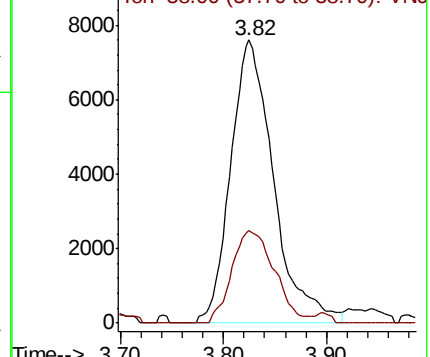
43 100

58 32.6 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.858 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051508.D

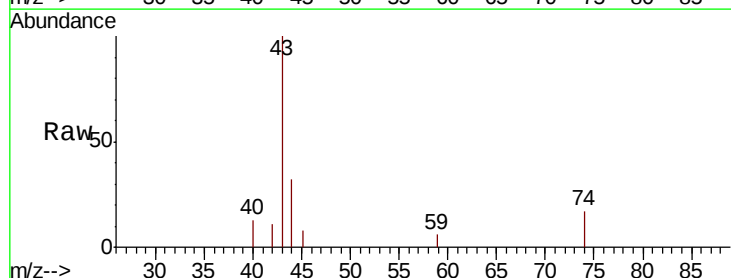
Acq: 26 Sep 2018 1:43

Tgt Ion: 43 Resp: 11306

Ion Ratio Lower Upper

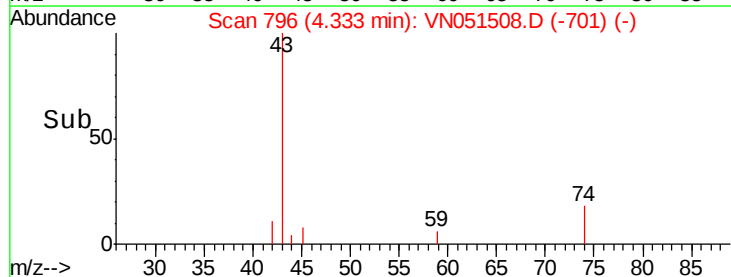
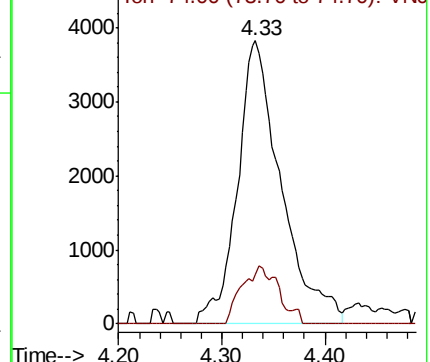
43 100

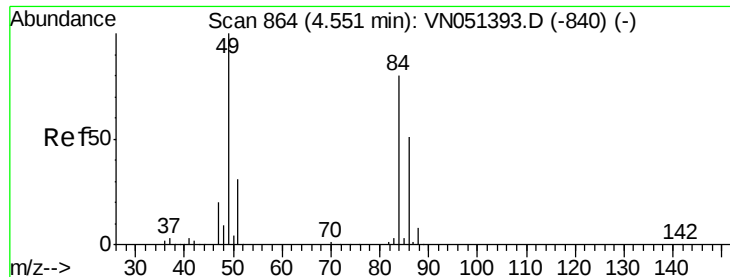
74 17.1 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

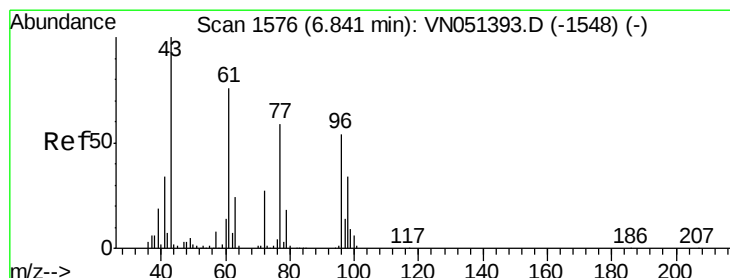
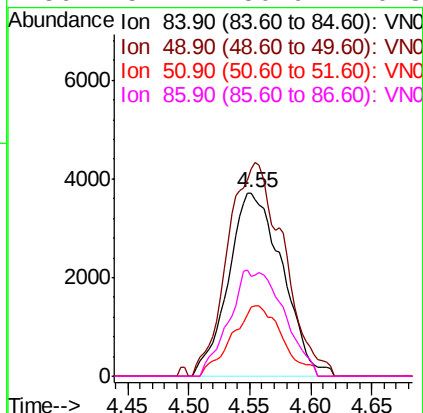
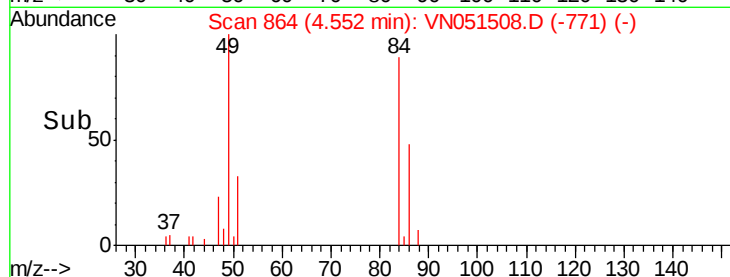
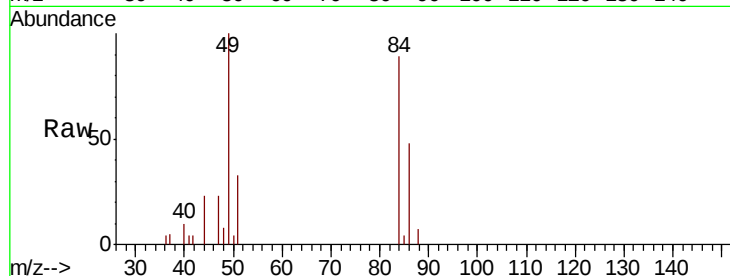




#20
Methvlene Chloride
Concen: 1.440 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

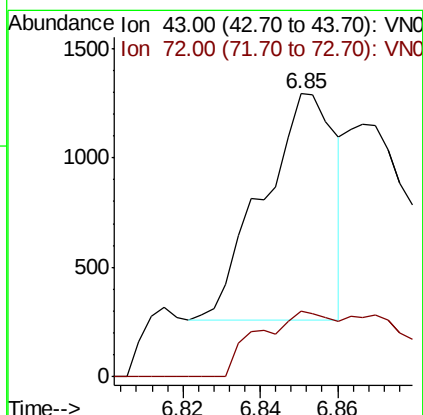
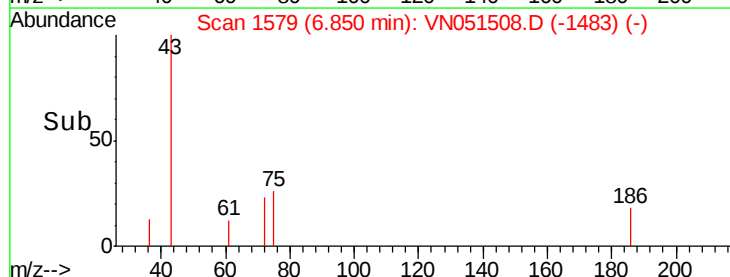
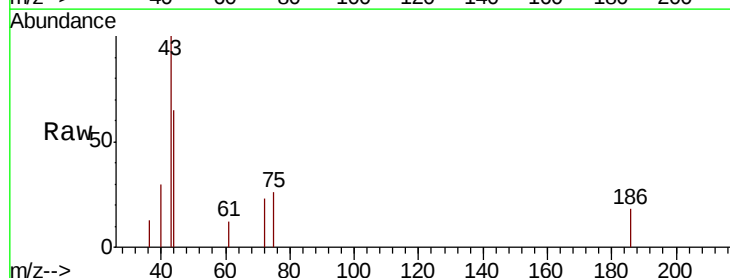
Instrument :
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PB113167ZHE#02

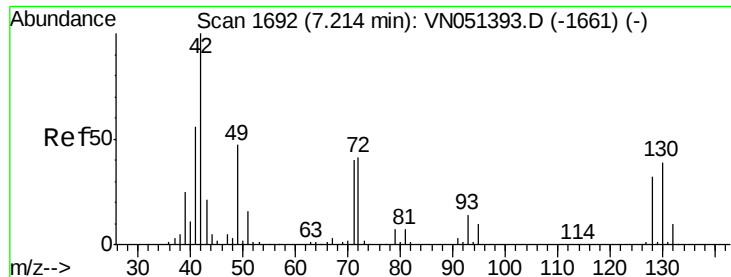
Tot Ion: 84 Resp: 11384
Ion Ratio Lower Upper
84 100
49 112.8 99.9 149.9
51 37.5 31.4 47.2
86 54.2 50.9 76.3



#25
2-Butanone
Concen: 0.494 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

Tgt Ion: 43 Resp: 1351
Ion Ratio Lower Upper
43 100
72 29.2 21.8 32.6





#29

Tetrahydrofuran

Concen: 0.606 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#02

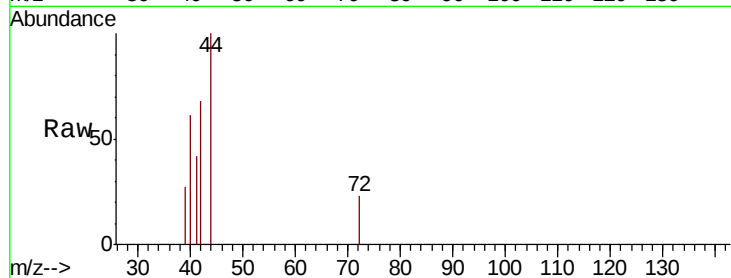
Tot Ion: 42 Resp: 1051

Ion Ratio Lower Upper

42 100

72 6.7 34.3 51.5#

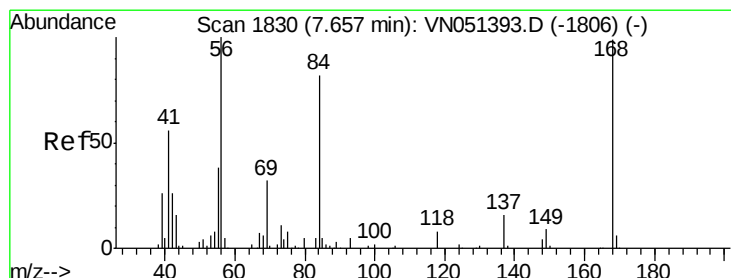
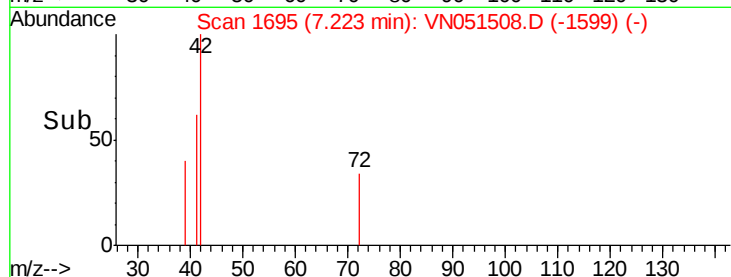
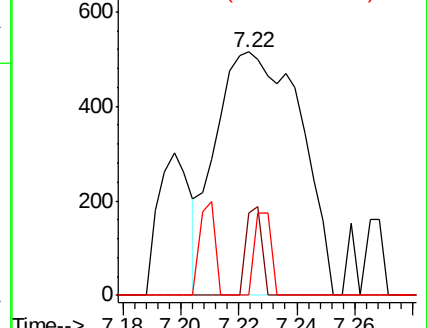
71 6.5 32.2 48.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.977 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

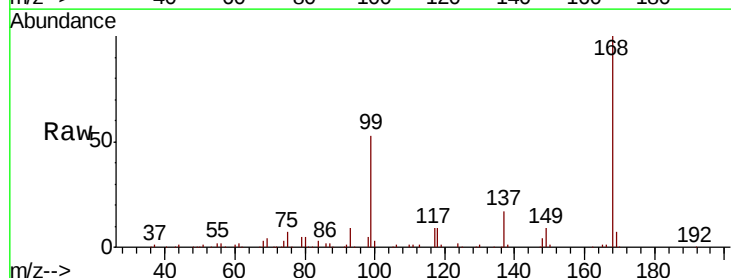
Tgt Ion: 56 Resp: 12292

Ion Ratio Lower Upper

56 100

69 177.0 25.8 38.6#

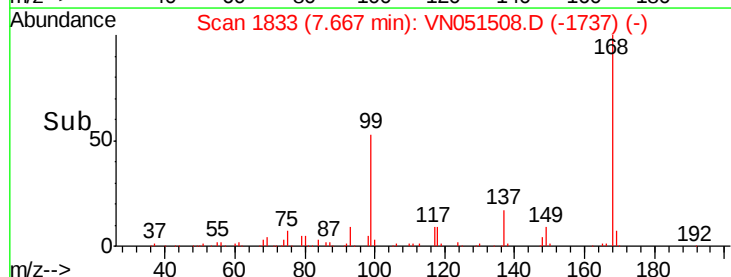
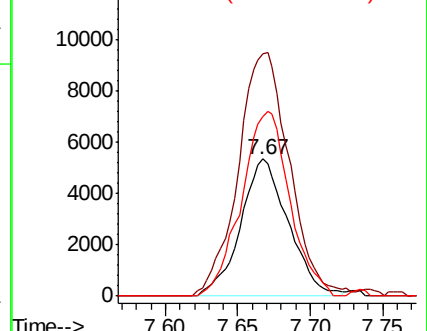
84 131.0 66.0 99.0#

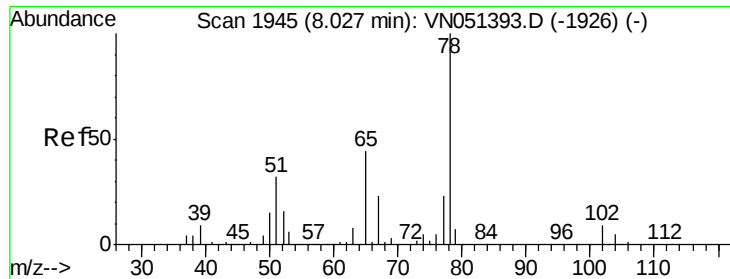


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

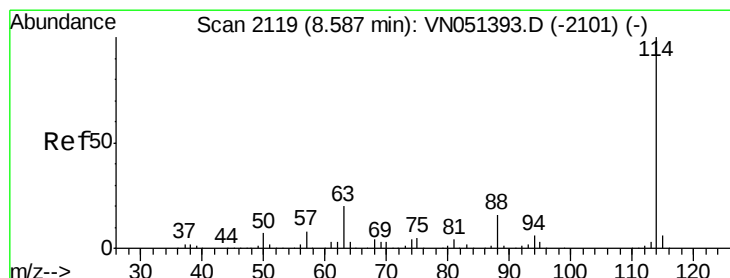
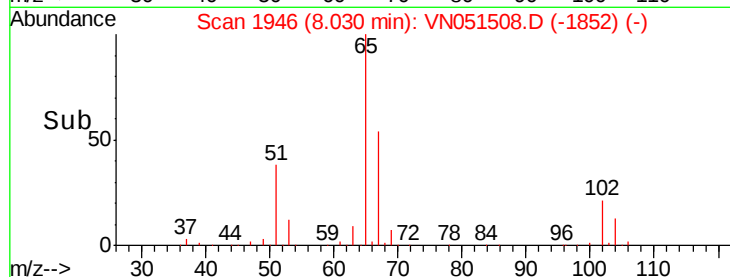
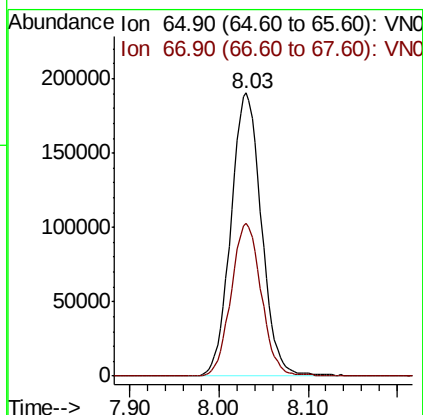
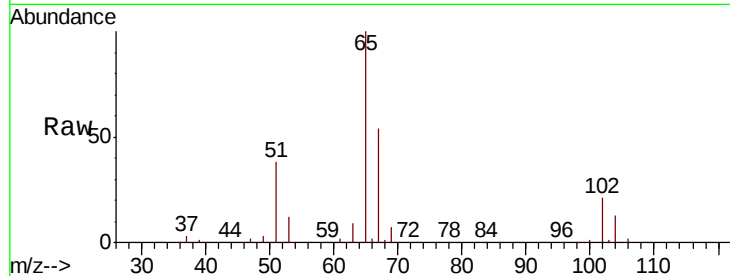




#33
 1,2-Dichloroethane-d4
 Concen: 56.574 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051508.D
 Acq: 26 Sep 2018 1:43

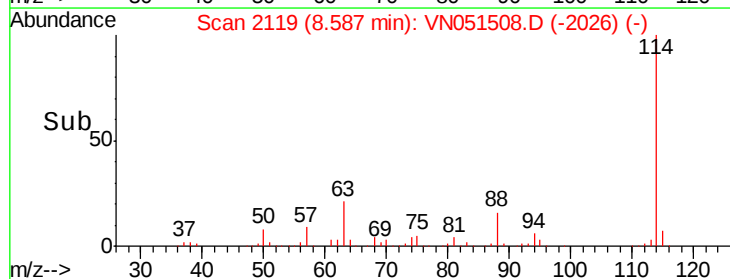
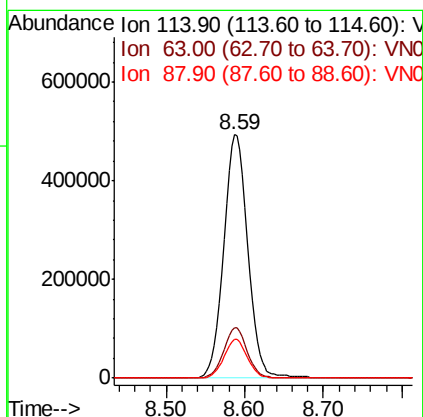
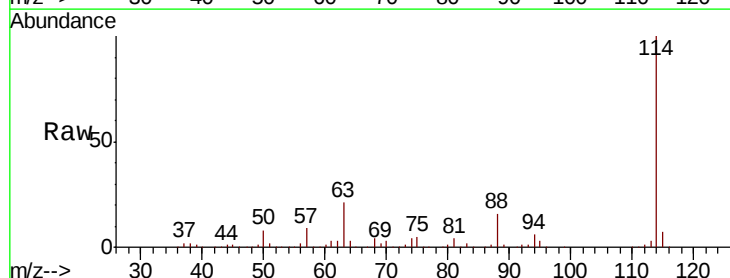
Instrument :
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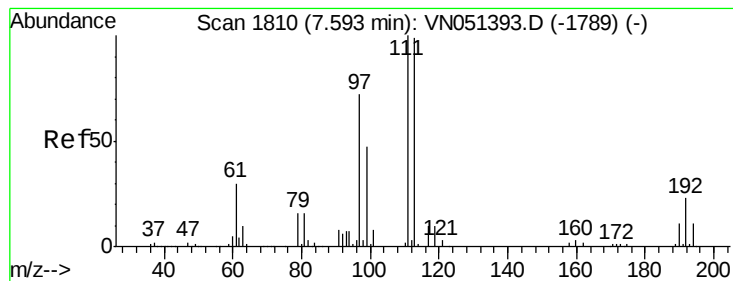
Tot Ion: 65 Resp: 452056
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051508.D
 Acq: 26 Sep 2018 1:43

Tgt Ion: 114 Resp: 1040372
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.2
 88 15.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.576 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#02

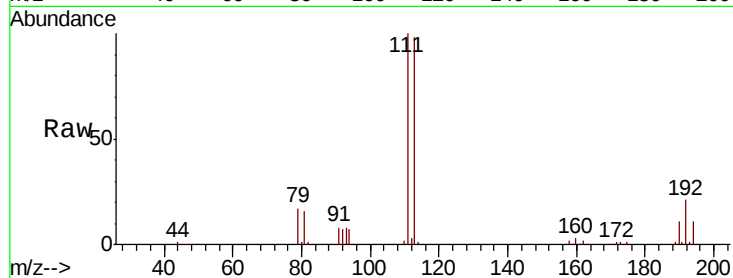
Tot Ion:113 Resp: 395803

Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

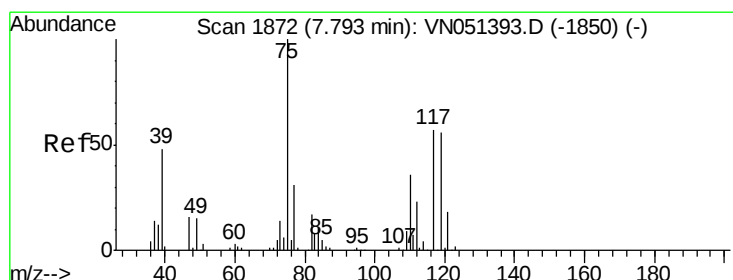
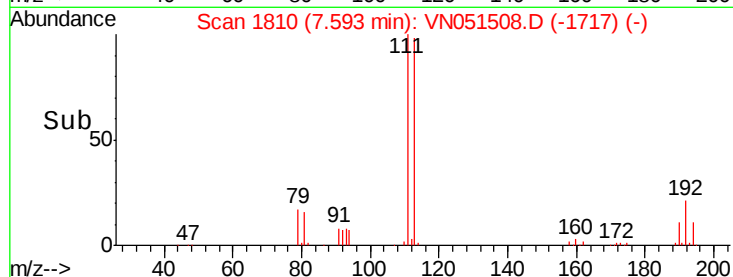
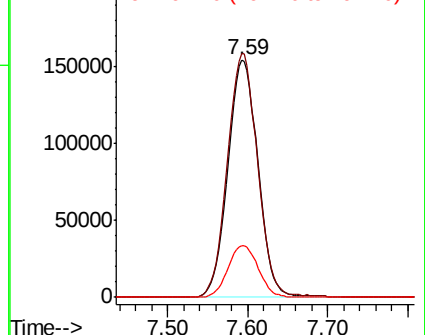
192 22.0 18.0 27.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.675 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

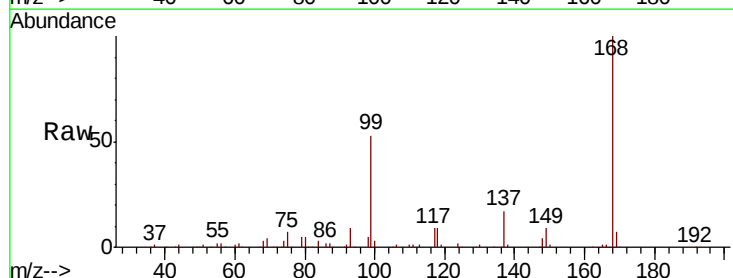
Tgt Ion: 75 Resp: 44277

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.3#

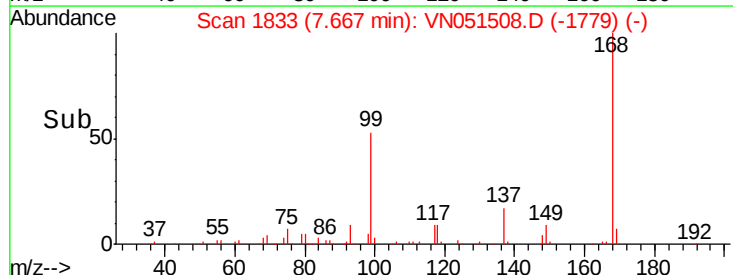
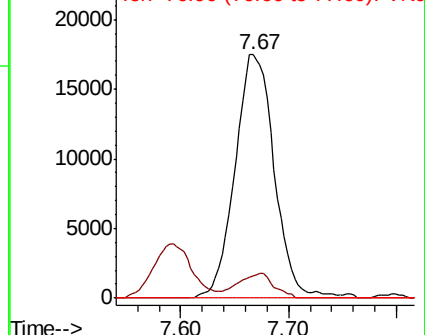
77 0.0 25.6 38.4#

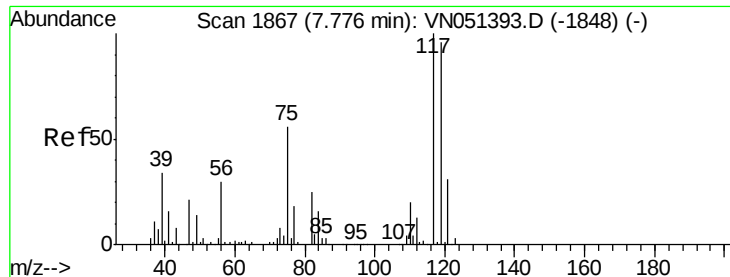


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.694 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#02

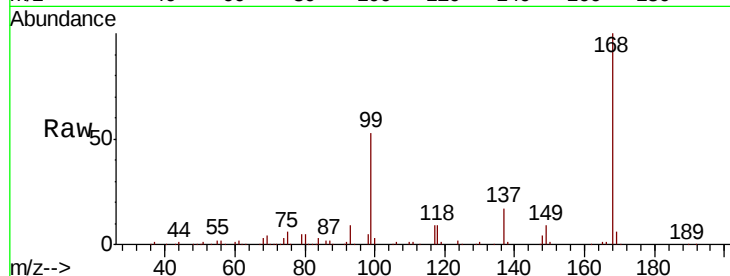
Tot Ion:117 Resp: 59155

Ion Ratio Lower Upper

117 100

119 5.7 76.9 115.3#

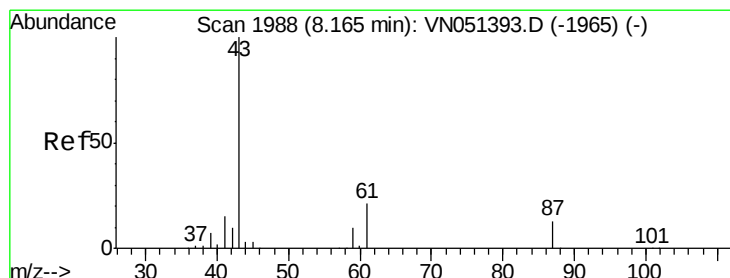
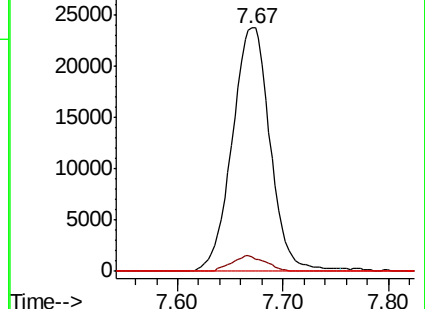
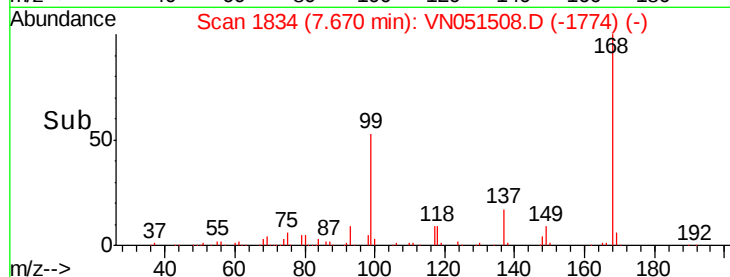
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 27.418 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

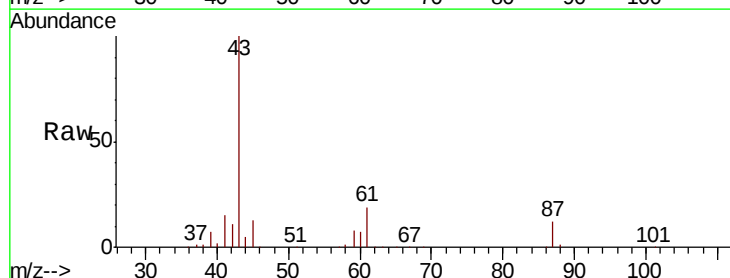
Tgt Ion: 43 Resp: 343432

Ion Ratio Lower Upper

43 100

61 16.5 16.8 25.2#

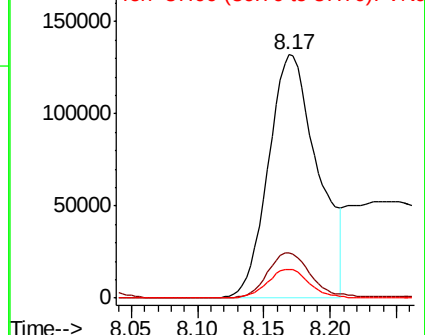
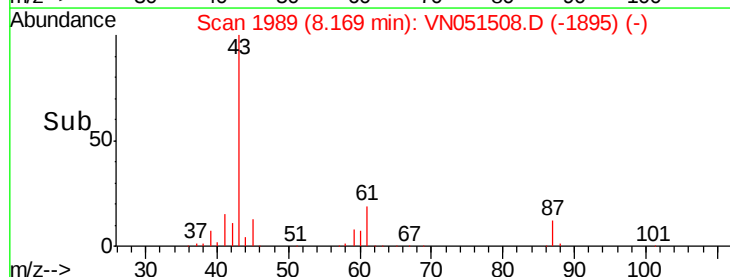
87 10.1 10.7 16.1#

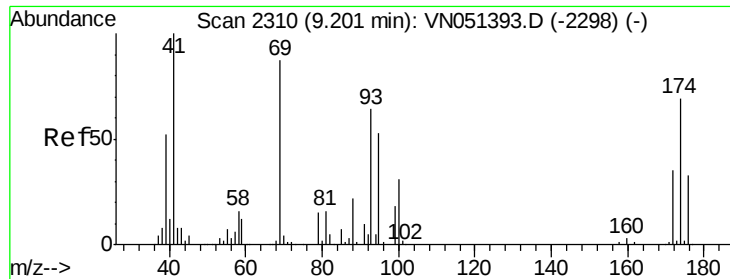


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

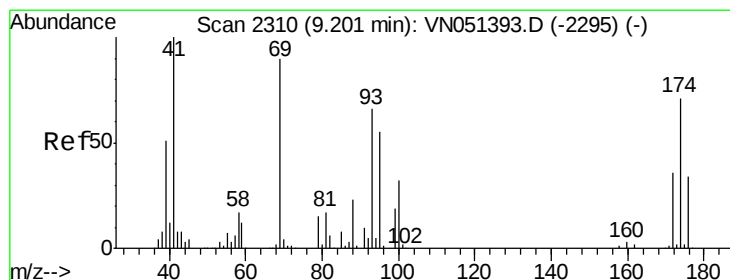
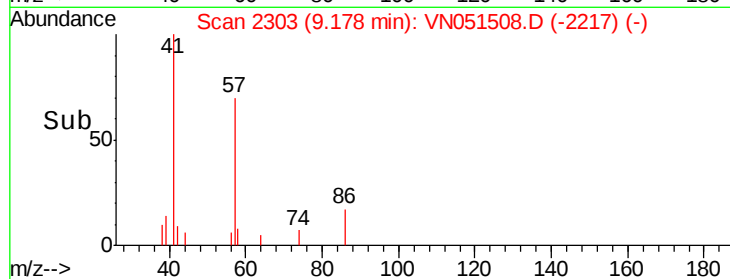
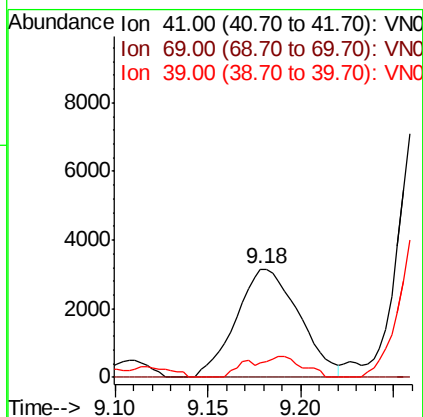
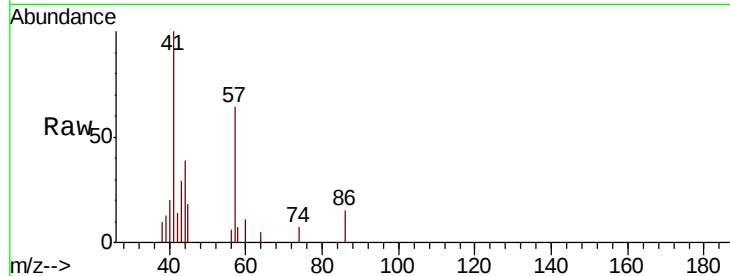




#48
Methvl methacrylate
Concen: 1.193 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

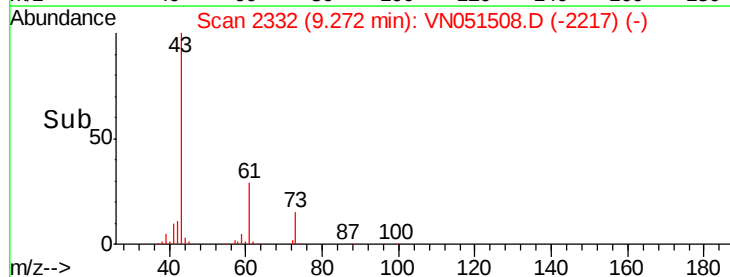
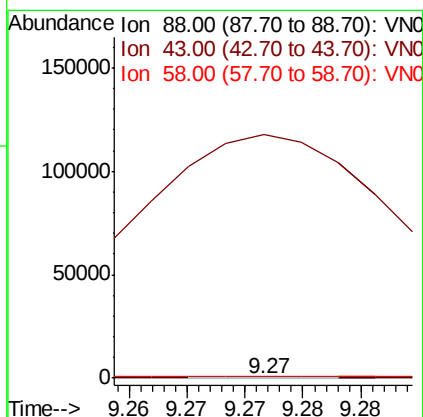
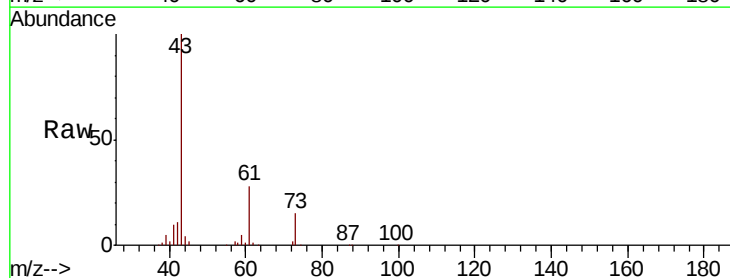
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#02

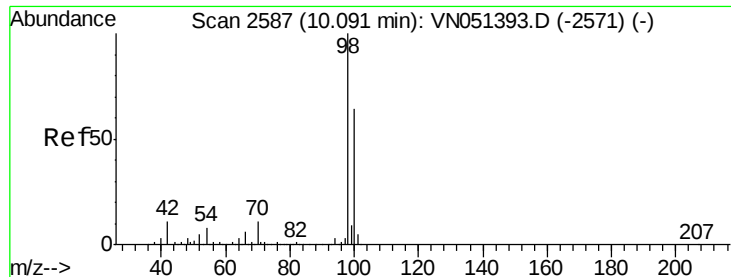
Tot Ion: 41 Resp: 7451
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 10.8 43.8 65.8#



#49
1,4-Dioxane
Concen: 0.418 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

Tgt Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 711006.3 25.9 38.9#
58 6090.6 57.0 85.4#

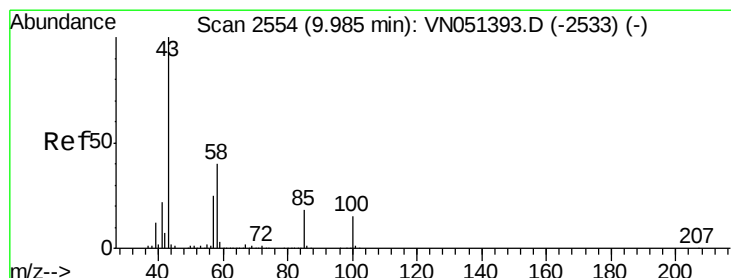
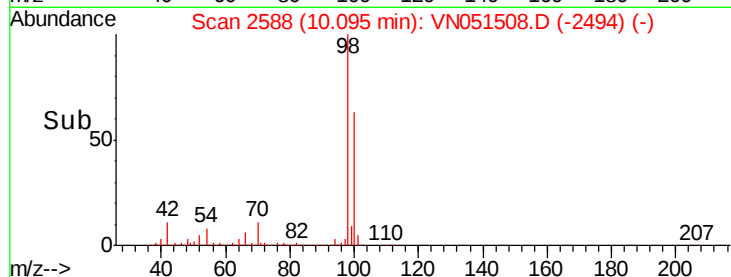
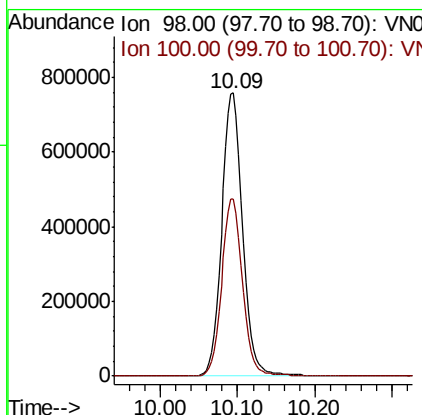
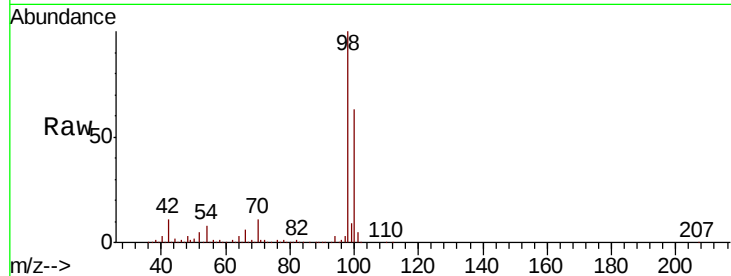




#50
Toluene-d8
Concen: 45.384 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

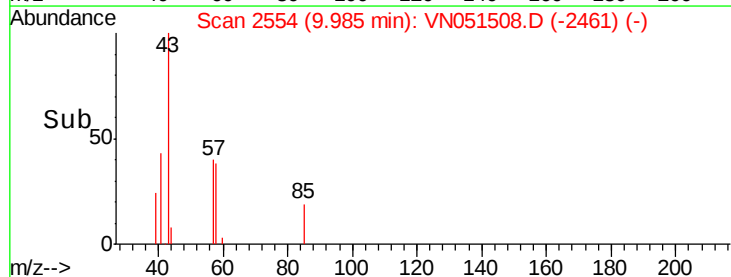
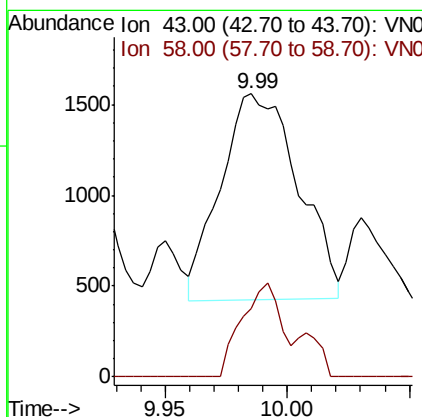
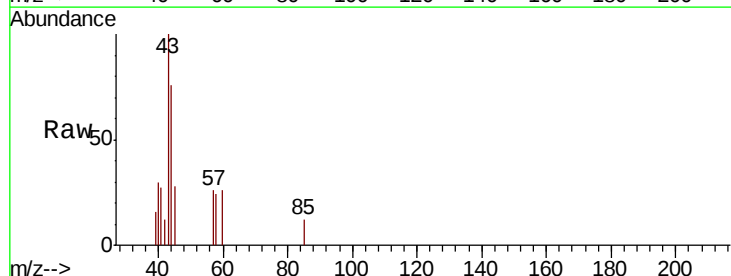
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#02

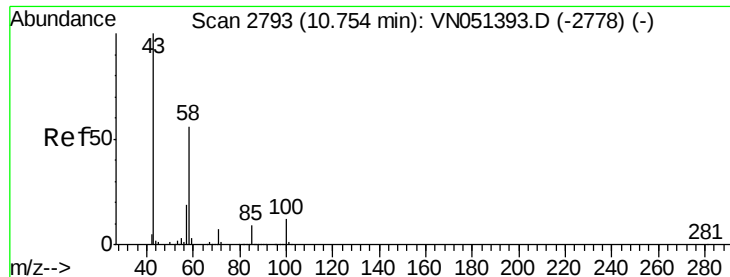
Tot Ion: 98 Resp: 1421784
Ion Ratio Lower Upper
98 100
100 62.5 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 0.365 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

Tgt Ion: 43 Resp: 2511
Ion Ratio Lower Upper
43 100
58 23.0 31.5 47.3#

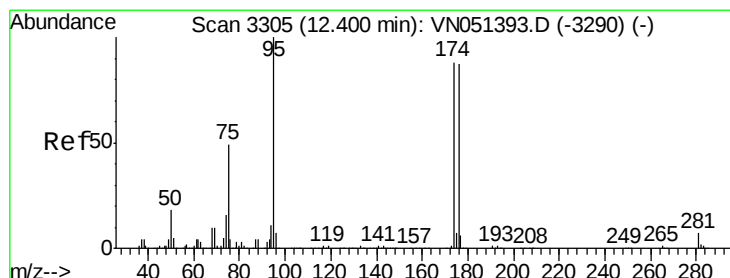
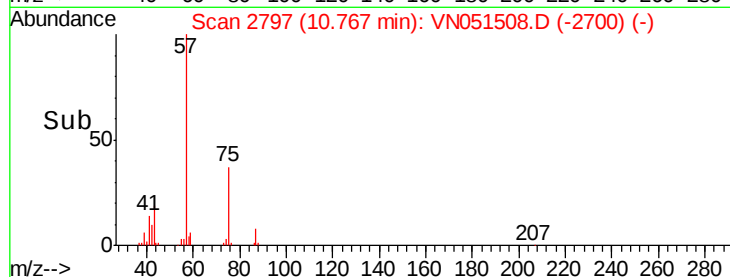
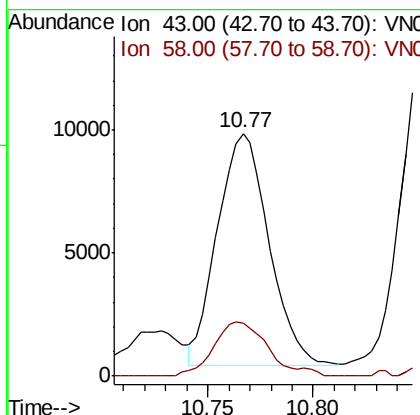
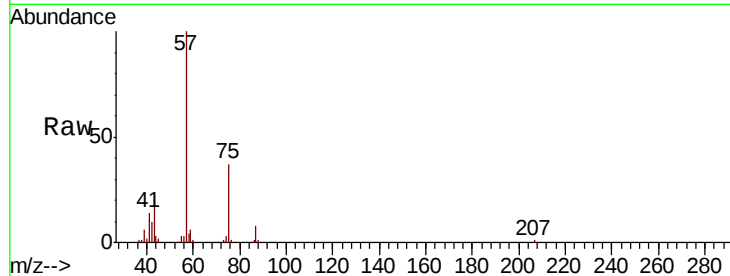




#59
2-Hexanone
Concen: 3.568 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

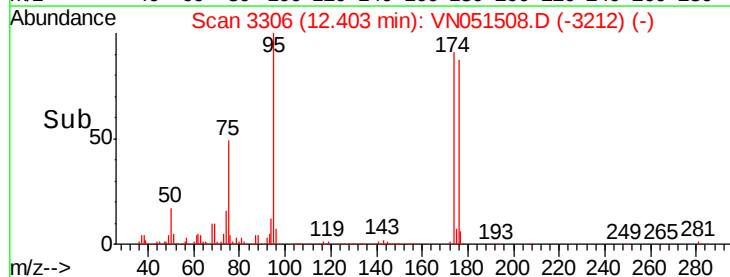
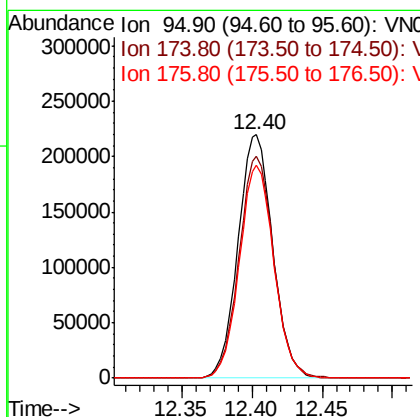
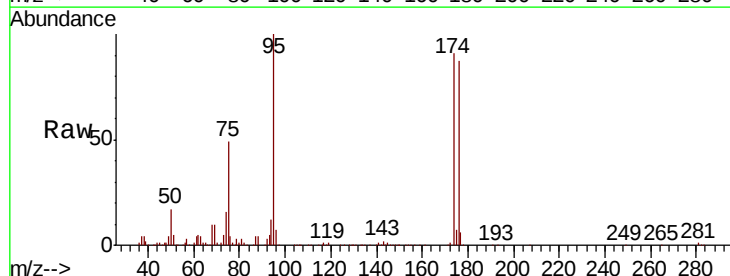
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#02

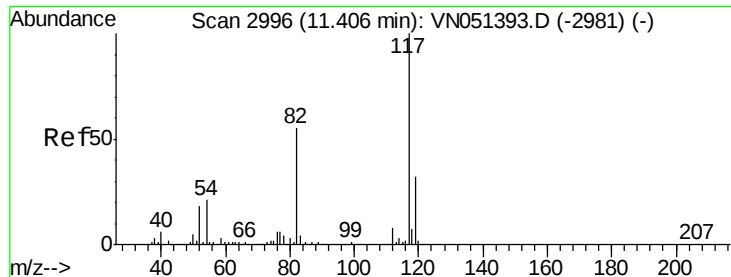
Tot Ion: 43 Resp: 15935
Ion Ratio Lower Upper
43 100
58 24.7 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 37.311 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

Tgt Ion: 95 Resp: 378133
Ion Ratio Lower Upper
95 100
174 91.2 0.0 181.6
176 87.1 0.0 176.4

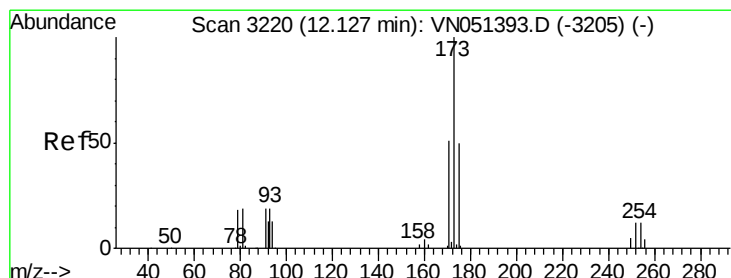
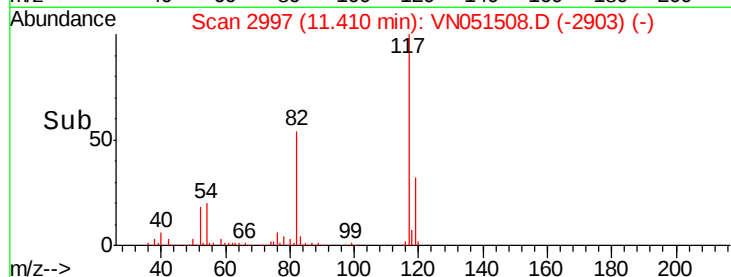
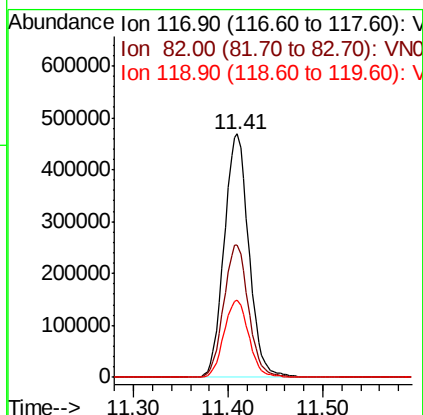
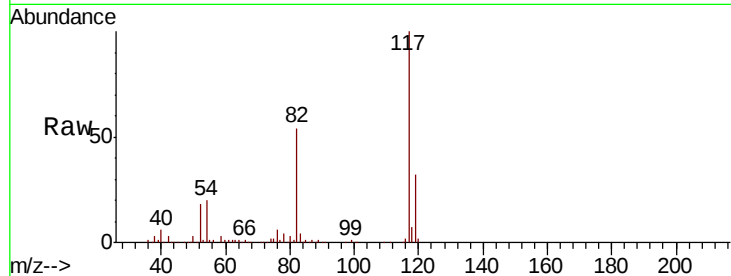




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

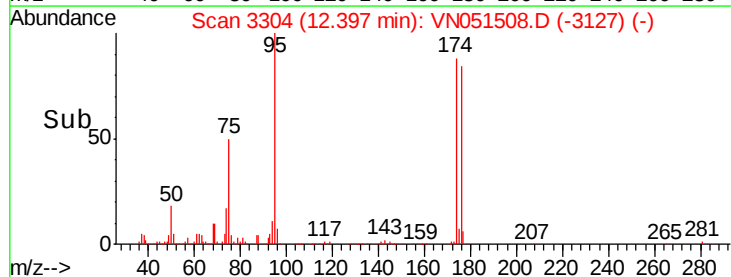
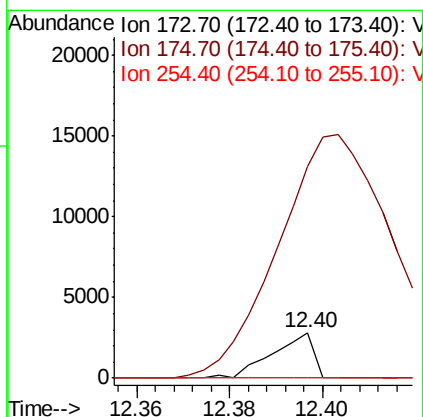
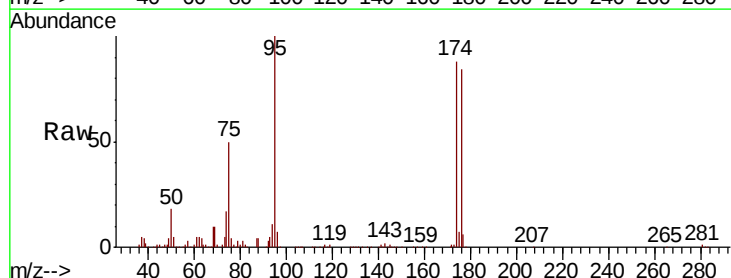
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#02

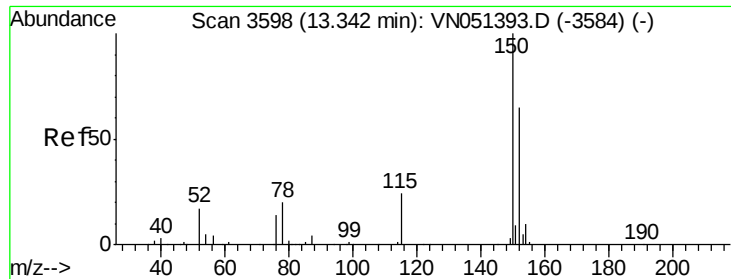
Tot Ion:117 Resp: 850435
Ion Ratio Lower Upper
117 100
82 54.4 44.2 66.2
119 31.6 25.9 38.9



#71
Bromoform
Concen: 0.310 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN051508.D
Acq: 26 Sep 2018 1:43

Tgt Ion:173 Resp: 1749
Ion Ratio Lower Upper
173 100
175 1239.6 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#02

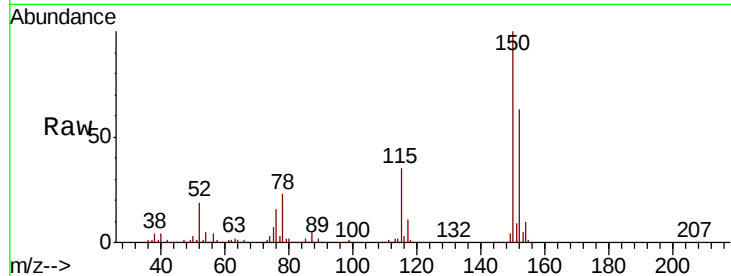
Tot Ion:152 Resp: 299179

Ion Ratio Lower Upper

152 100

115 55.8 28.3 84.9

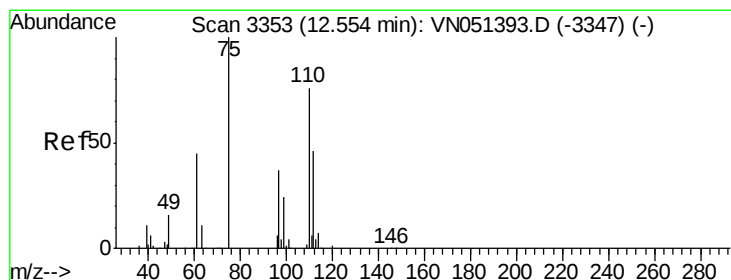
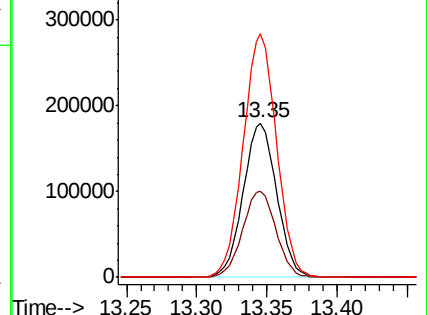
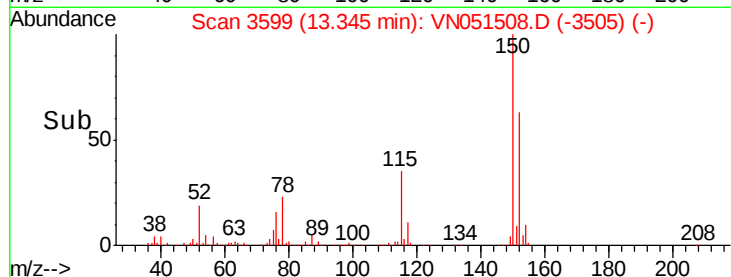
150 157.1 0.0 353.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 37.450 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051508.D

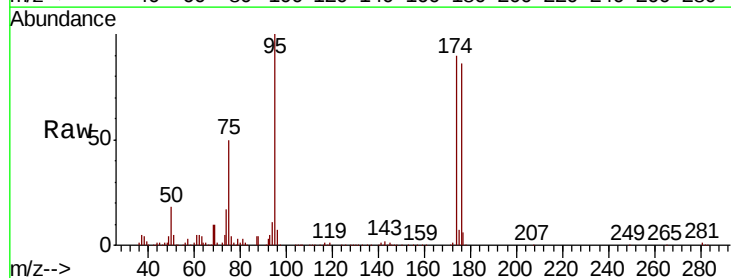
Acq: 26 Sep 2018 1:43

Tgt Ion: 75 Resp: 185998

Ion Ratio Lower Upper

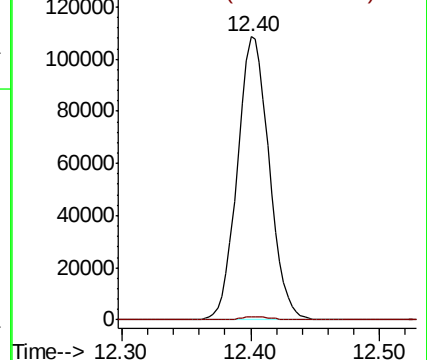
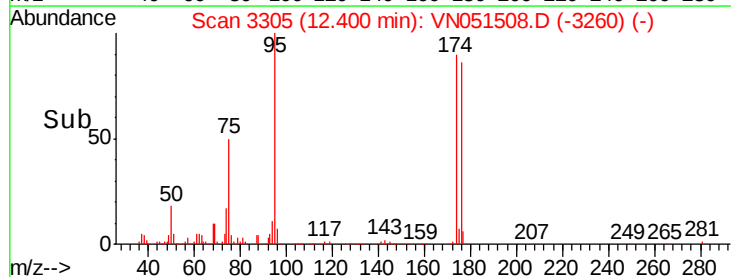
75 100

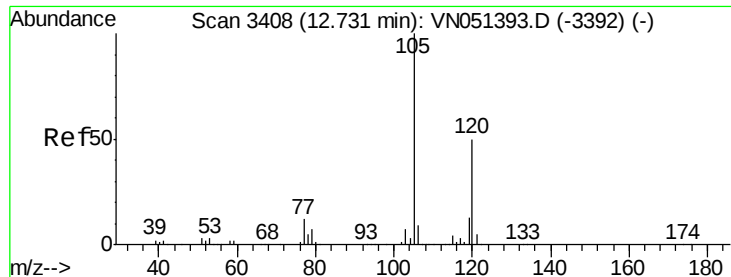
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.210 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

Instrument :

MSVOA_N

ClientSampleId :

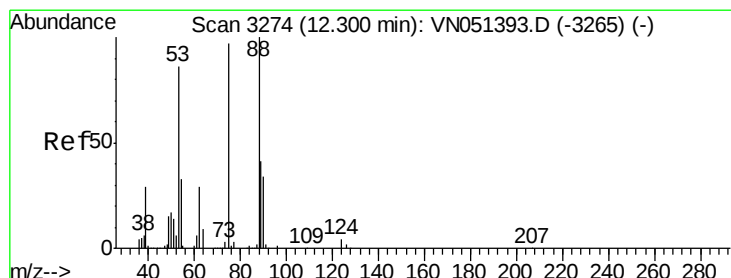
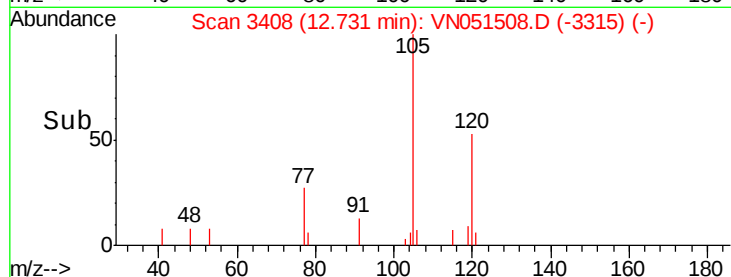
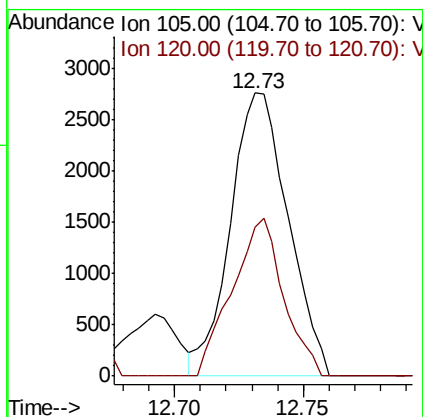
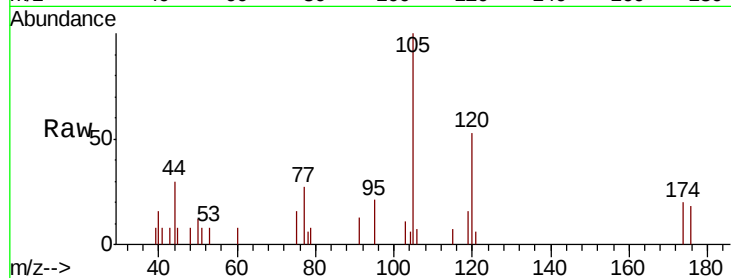
PB113167ZHE#02

Tot Ion:105 Resp: 4321

Ion Ratio Lower Upper

105 100

120 49.6 24.8 74.4



#81

trans-1,4-Dichloro-2-butene

Concen: 115.156 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051508.D

Acq: 26 Sep 2018 1:43

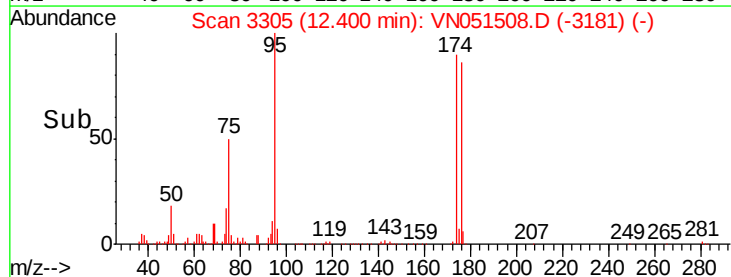
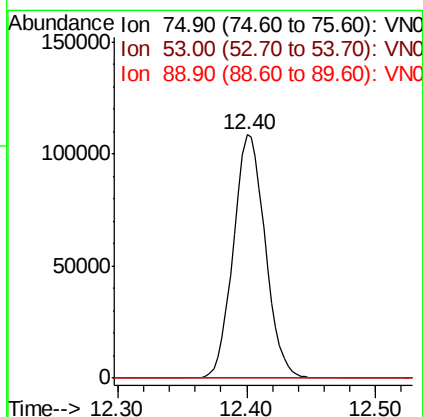
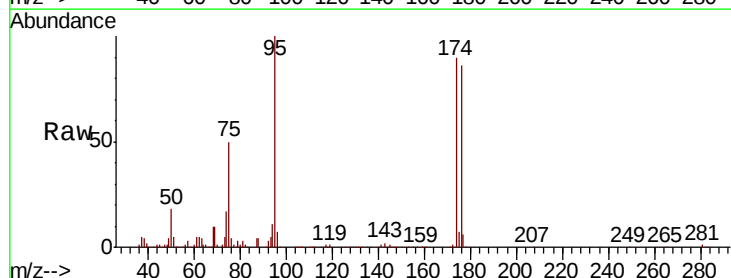
Tgt Ion: 75 Resp: 185998

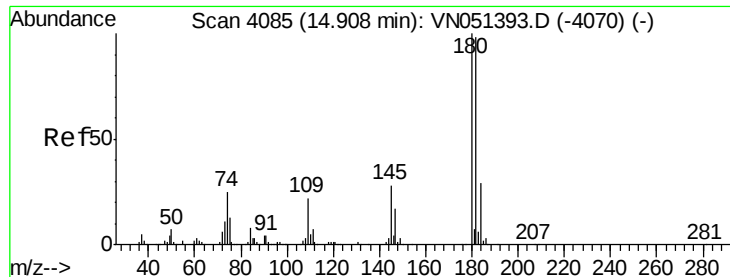
Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 36.7 55.1#

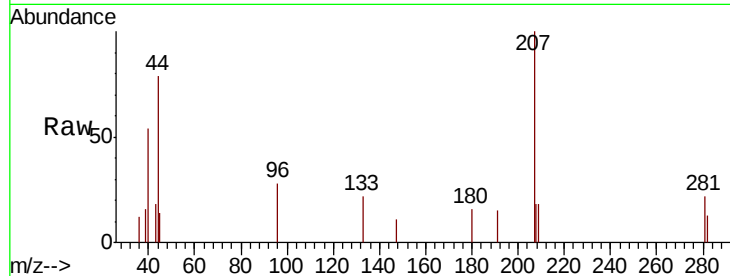




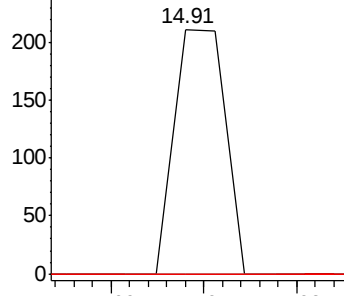
#93
 1,2,4-Trichlorobenzene
 Concen: 5.994 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN051508.D
 Acq: 26 Sep 2018 1:43

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#02

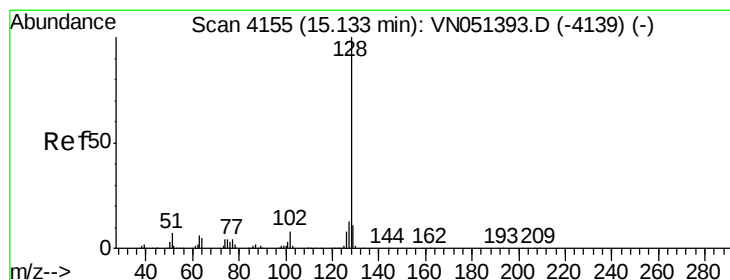
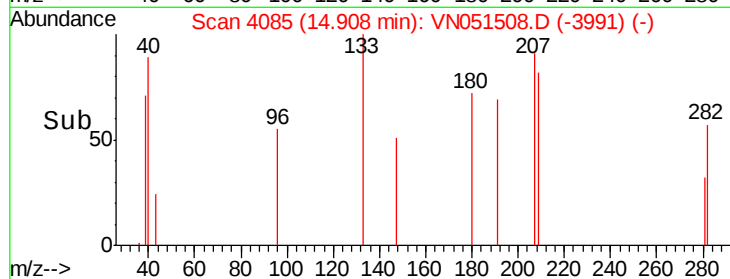
Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.5	145.6#
145	0.0	14.1	42.4#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

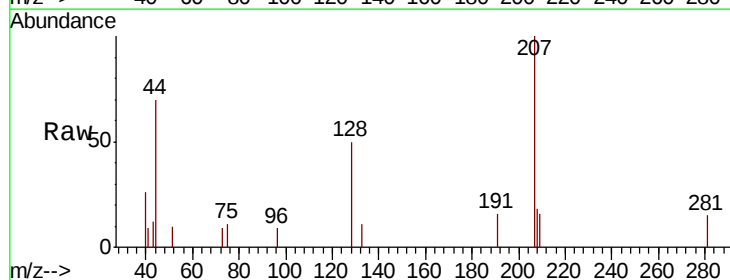


Time-->

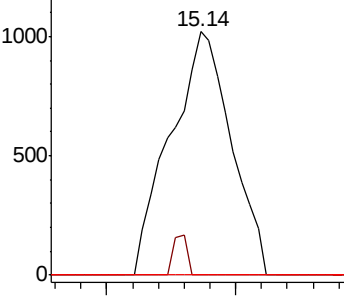


#95
 Naphthalene
 Concen: 8.170 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051508.D
 Acq: 26 Sep 2018 1:43

Tgt Ion	Ratio	Lower	Upper
128	100		
127	3.7	10.5	15.7#
129	0.0	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



Time-->

