

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112718\
 Data File : VN052483.D
 Acq On : 27 Nov 2018 17:13
 Operator : MD\SY
 Sample : PB115074TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115074TB

Quant Time: Nov 28 06:12:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 28 01:11:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1277956	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1951130	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1661998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	588012	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	663350	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
35) Dibromofluoromethane	7.59	113	597970	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
50) Toluene-d8	10.09	98	2382015	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	12.40	95	712908	45.31	ug/l	0.00
Spiked Amount			Recovery	=	90.62%	

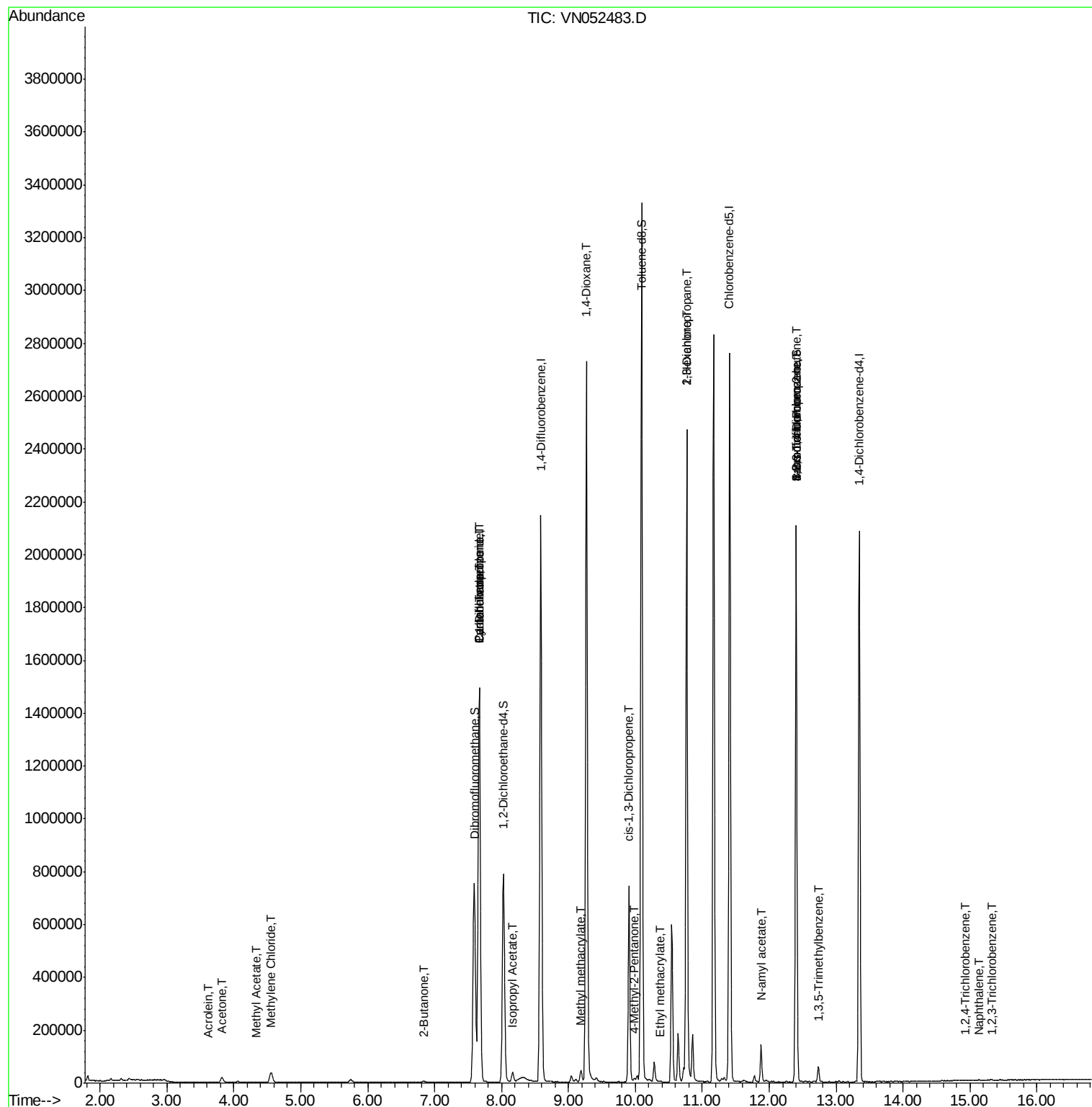
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	506	33.834	ug/l #	58
16) Acetone	3.82	43	32662	8.899	ug/l	96
18) Methyl Acetate	4.33	43	3327	0.316	ug/l #	52
20) Methylene Chloride	4.56	84	27975	1.948	ug/l	89
25) 2-Butanone	6.83	43	1275	0.245	ug/l #	80
31) Cyclohexane	7.66	56	23486	0.620	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	88972	4.829	ug/l #	50
38) Carbon Tetrachloride	7.67	117	114220	6.848	ug/l #	16
43) Isopropyl Acetate	8.17	43	45988	2.417	ug/l #	87
48) Methyl methacrylate	9.18	41	15148	1.527	ug/l #	13
49) 1,4-Dioxane	9.27	88	385	3.739	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	8244	0.772	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	133155	6.573	ug/l #	63
56) Ethyl methacrylate	10.37	69	173	2.703	ug/l #	25
57) 1,3-Dichloropropane	10.77	76	26019	1.284	ug/l #	43
59) 2-Hexanone	10.77	43	370258	51.670	ug/l #	52
71) Bromoform	12.40	173	4104	0.520	ug/l #	1
74) N-amyl acetate	11.88	43	44106	3.784	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	344559	37.999	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	30324	0.824	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	344559	126.900	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.92	180	778	2.900	ug/l	92
95) Naphthalene	15.14	128	2316	3.526	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	651	2.791	ug/l #	84

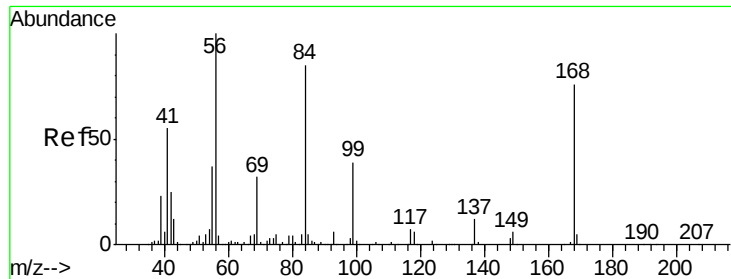
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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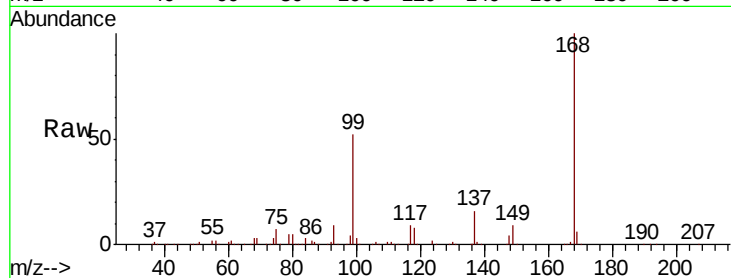




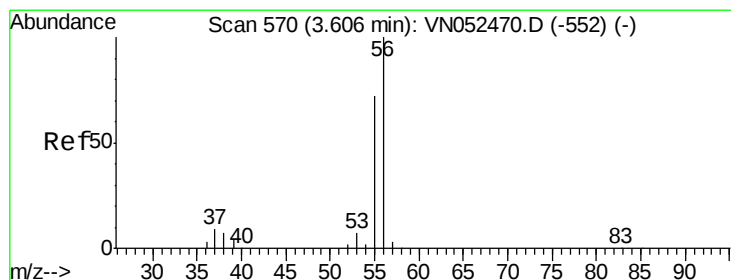
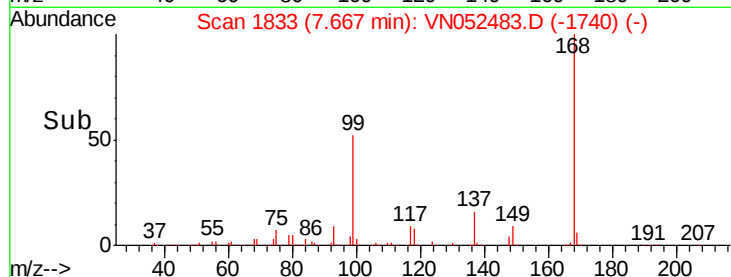
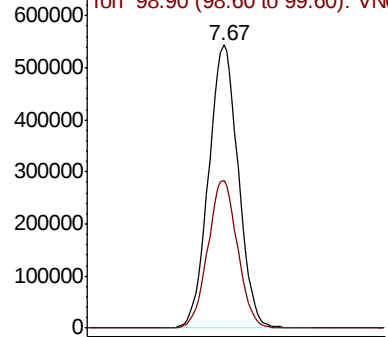
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Instrument :
MSVOA_N
ClientSampleId :
PB115074TB

Tot Ion:168 Resp: 1277956
Ion Ratio Lower Upper
168 100
99 52.3 41.7 62.5

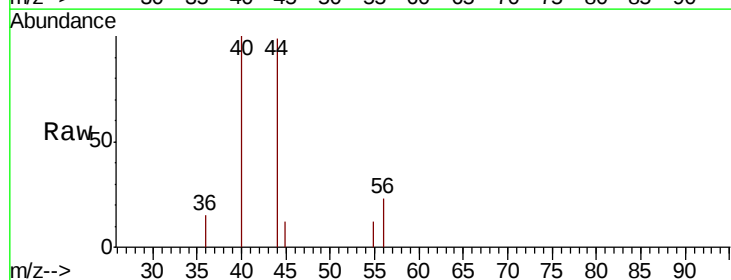


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN

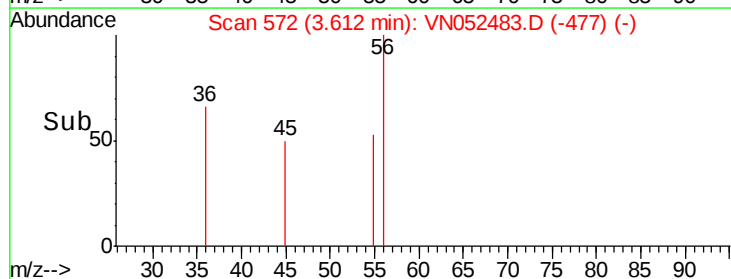
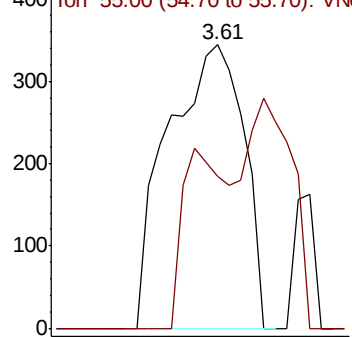


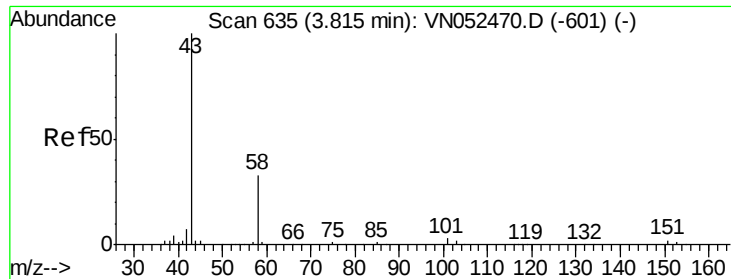
#13
Acrolein
Concen: 33.834 ug/l
RT: 3.61 min Scan# 572
Delta R.T. 0.01 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Tgt Ion: 56 Resp: 506
Ion Ratio Lower Upper
56 100
55 36.4 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 55.00 (54.70 to 55.70): VNO





#16

Acetone

Concen: 8.899 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

Instrument :

MSVOA_N

ClientSampled :

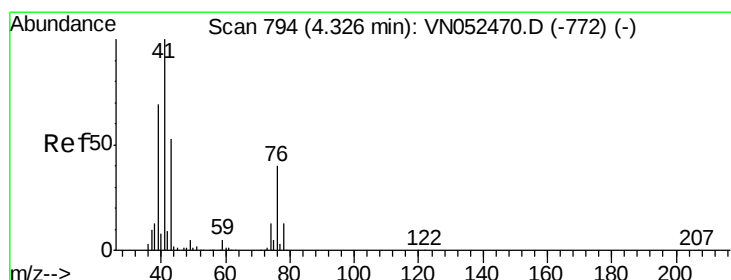
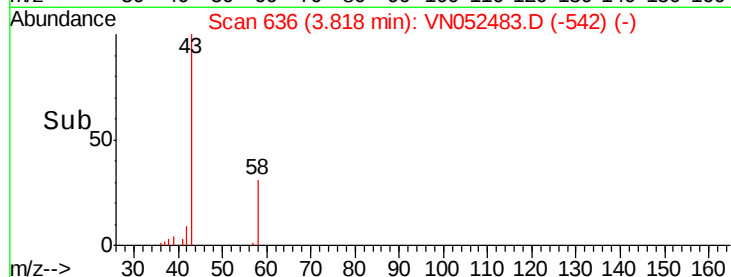
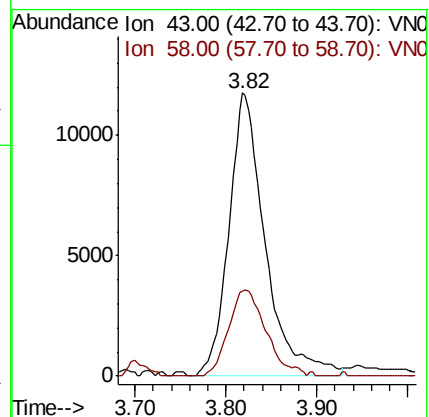
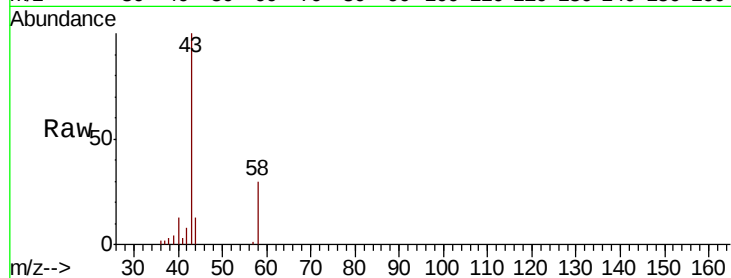
PB115074TB

Tot Ion: 43 Resp: 32662

Ion Ratio Lower Upper

43 100

58 30.1 26.0 39.0



#18

Methyl Acetate

Concen: 0.316 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052483.D

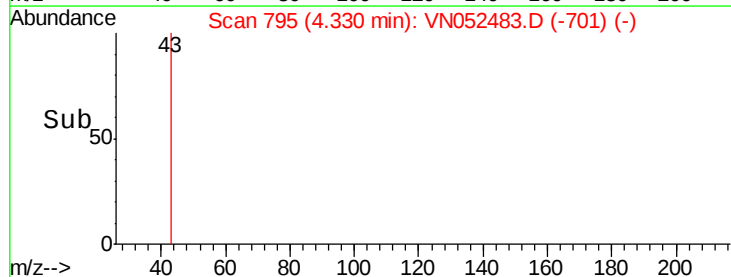
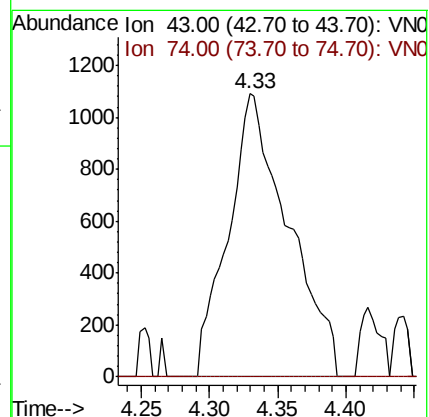
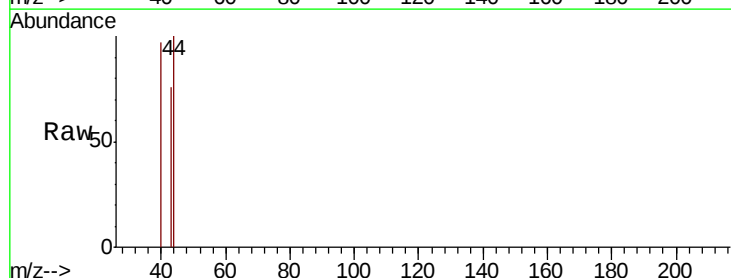
Acq: 27 Nov 2018 17:13

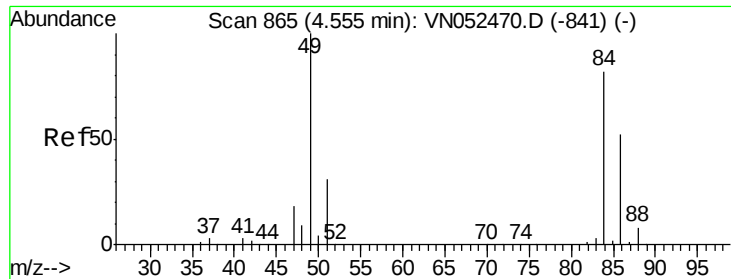
Tgt Ion: 43 Resp: 3327

Ion Ratio Lower Upper

43 100

74 0.0 18.6 27.8#

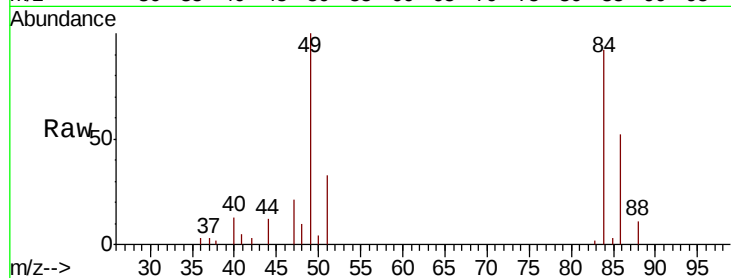




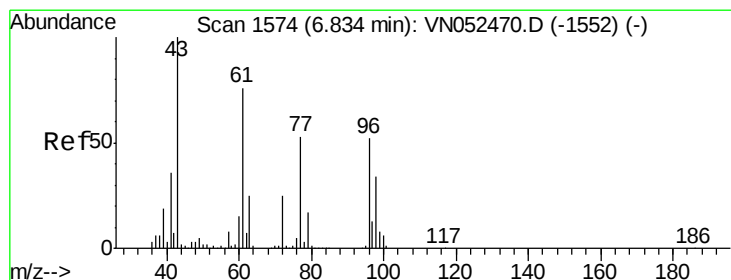
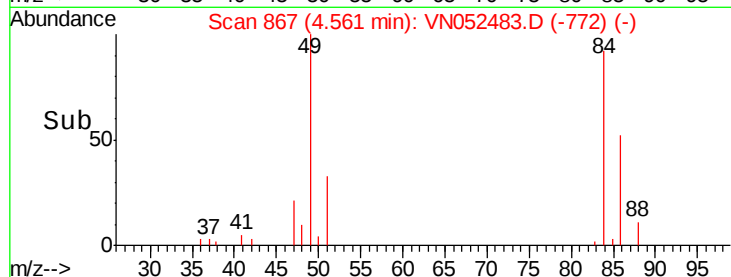
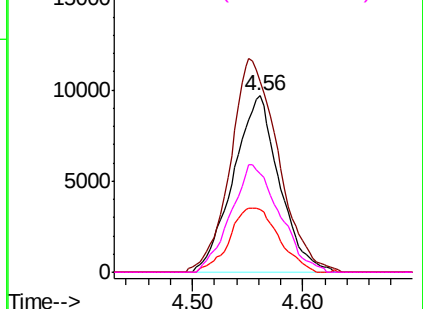
#20
Methvlene Chloride
Concen: 1.948 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Instrument :
MSVOA_N
ClientSampled :
PB115074TB

Tot Ion: 84 Resp: 27975
Ion Ratio Lower Upper
84 100
49 106.5 98.0 147.0
51 36.0 30.1 45.1
86 56.0 50.7 76.1

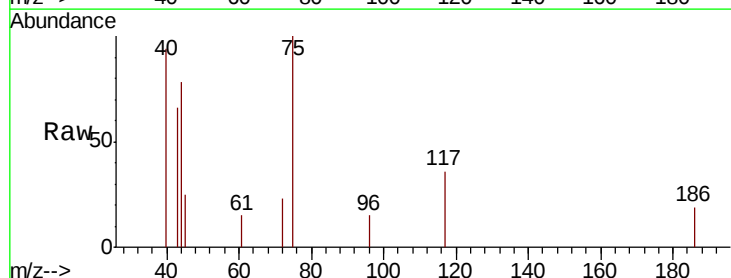


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

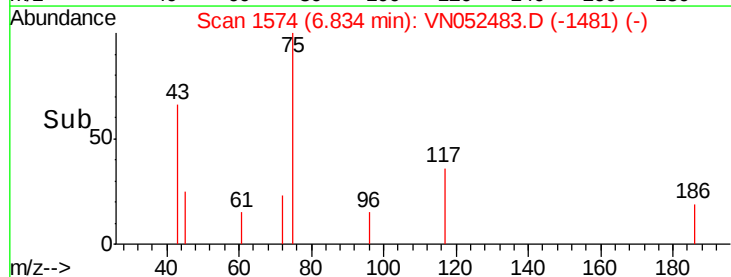
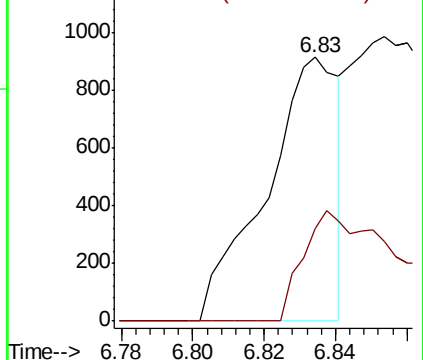


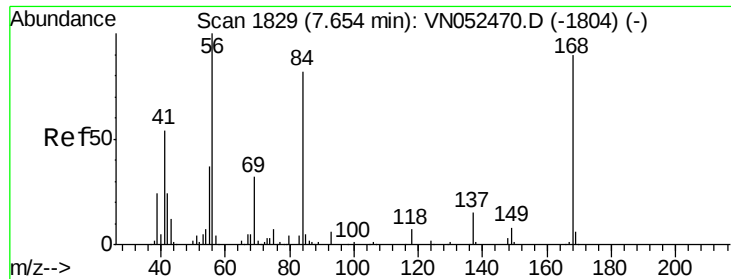
#25
2-Butanone
Concen: 0.245 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Tgt Ion: 43 Resp: 1275
Ion Ratio Lower Upper
43 100
72 35.1 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

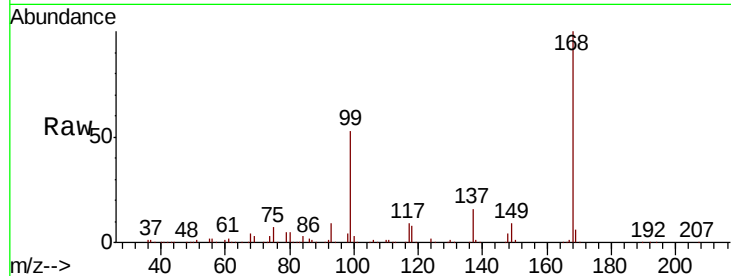




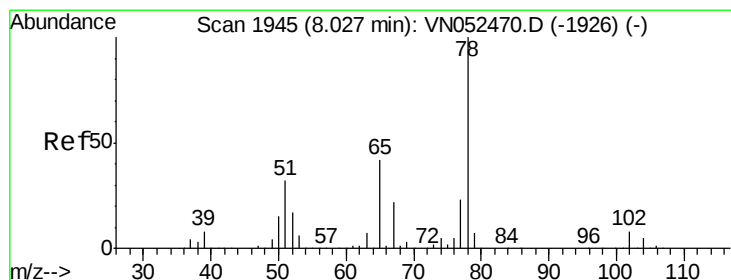
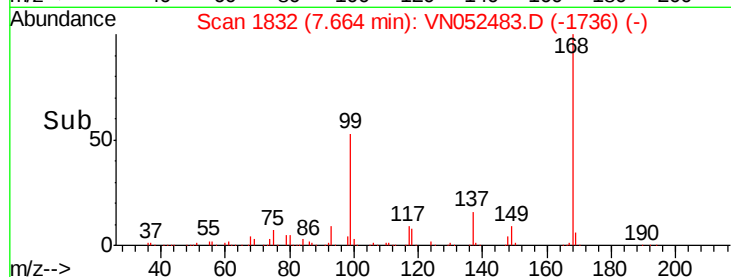
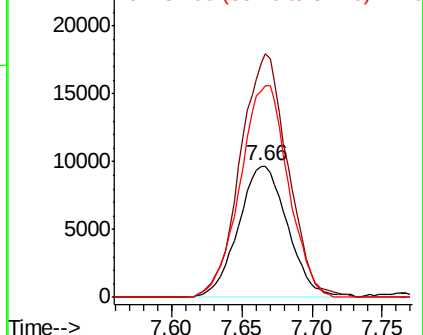
#31
Cyclohexane
Concen: 0.620 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Instrument :
MSVOA_N
ClientSampleId :
PB115074TB

Tot Ion: 56 Resp: 23486
Ion Ratio Lower Upper
56 100
69 178.6 25.8 38.6#
84 157.2 65.3 97.9#

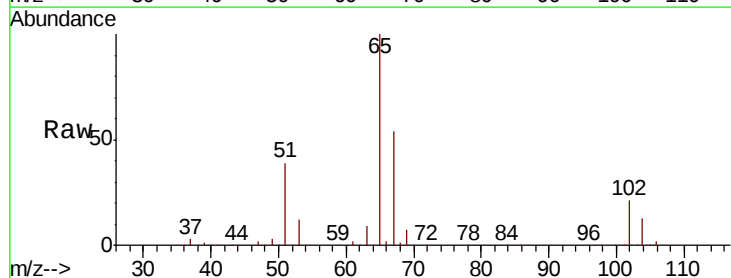


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

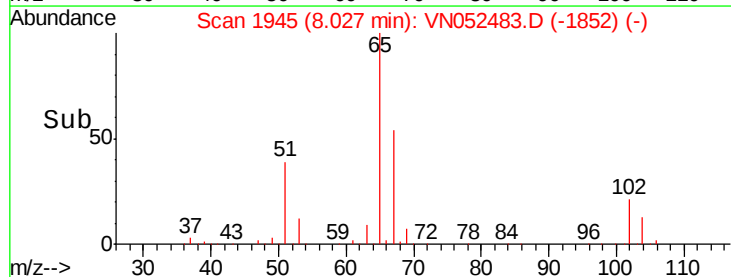
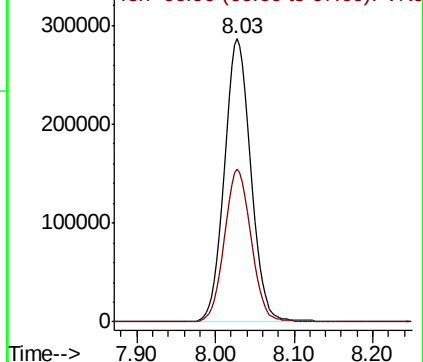


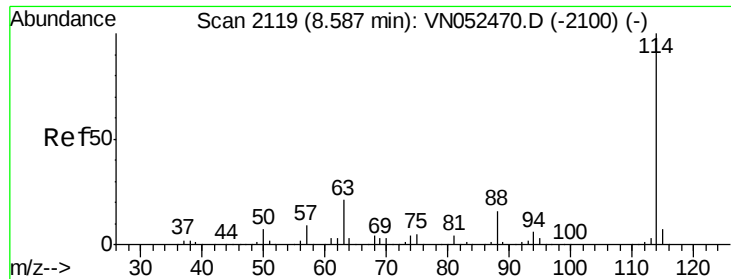
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Tgt Ion: 65 Resp: 663350
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

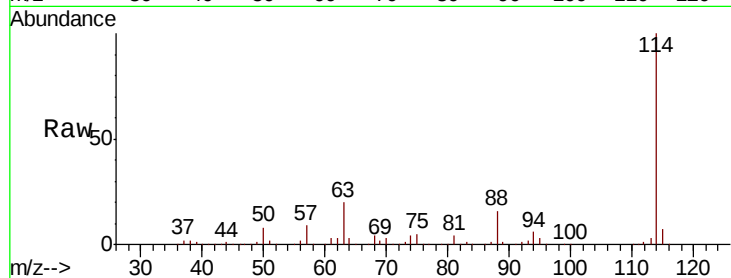




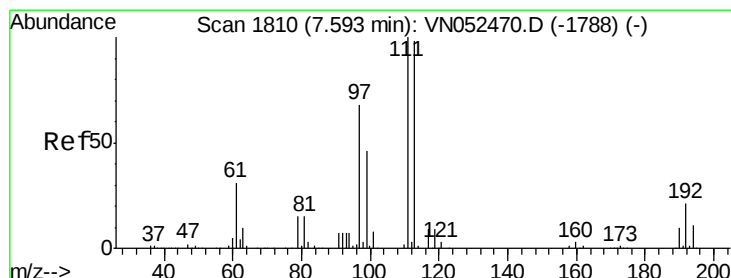
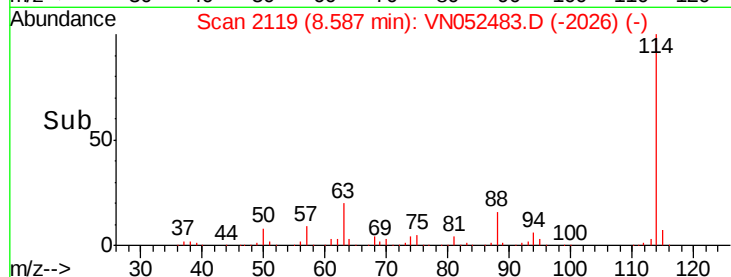
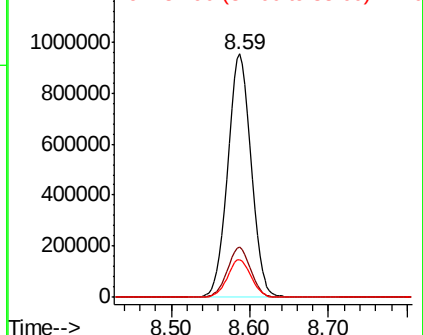
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052483.D
 Acq: 27 Nov 2018 17:13

Instrument :
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Tot Ion:114 Resp: 1951130
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.8
 88 15.6 0.0 31.6

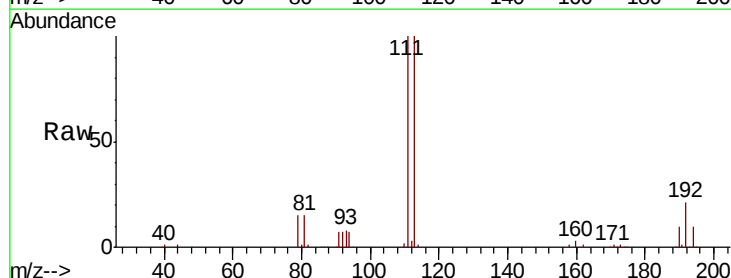


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

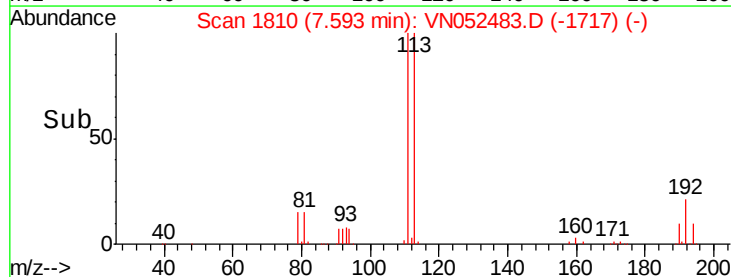
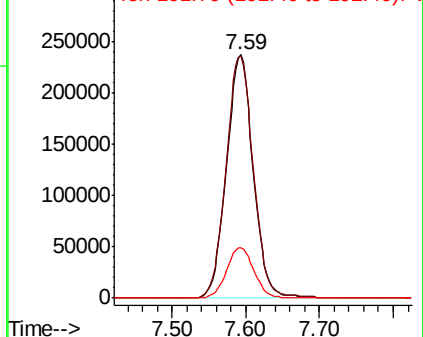


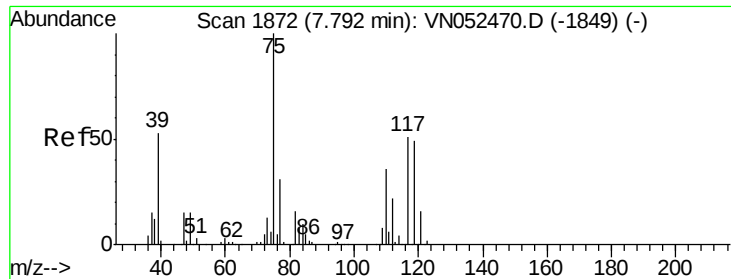
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052483.D
 Acq: 27 Nov 2018 17:13

Tgt Ion:113 Resp: 597970
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.0 123.0
 192 21.3 17.0 25.6



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

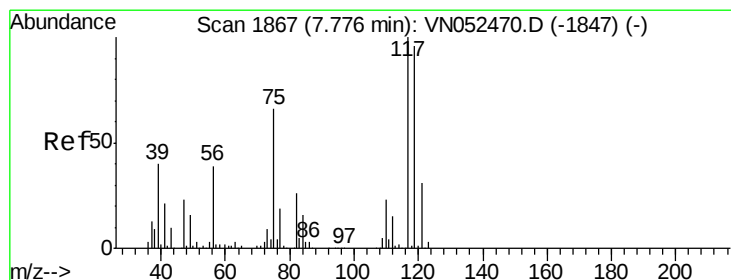
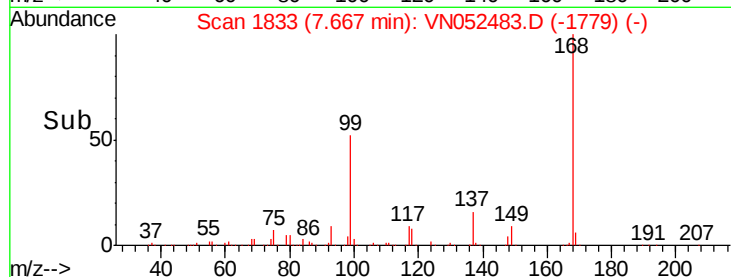
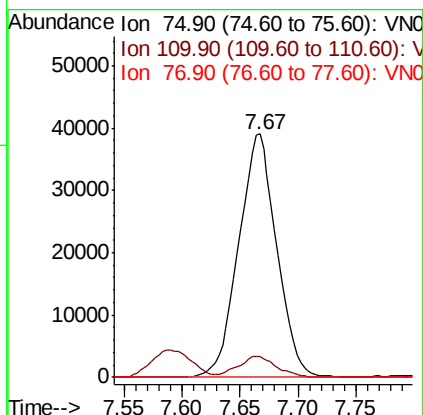
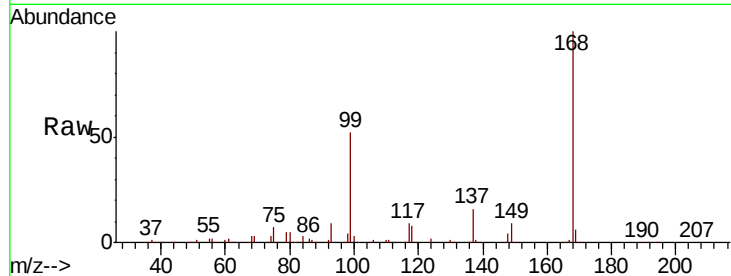




#36
 1,1-Dichloropropene
 Concen: 4.829 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052483.D
 Acq: 27 Nov 2018 17:13

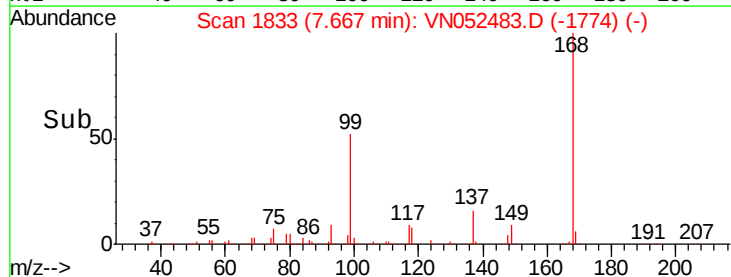
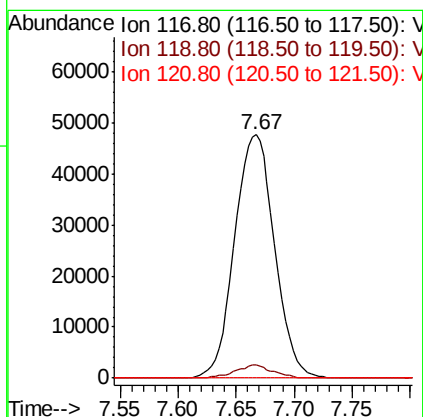
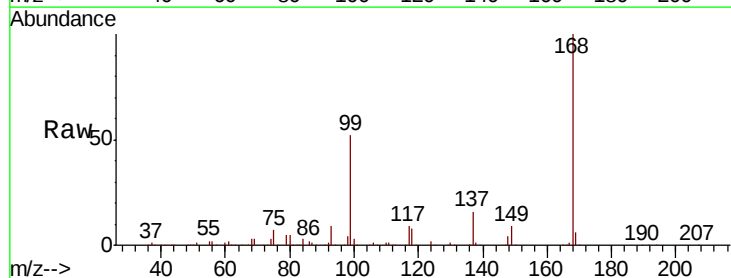
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115074TB

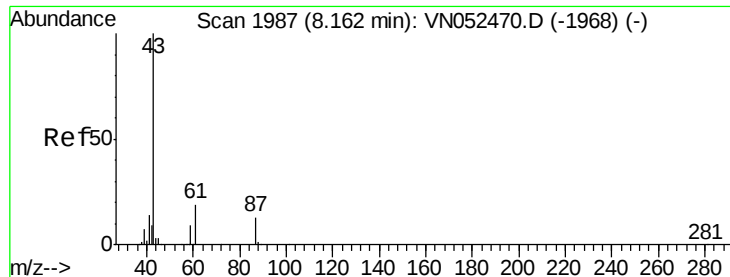
Tot Ion	75	Resp	88972
Ion Ratio	Lower	Upper	
75	100		
110	8.7	17.5	52.6#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.848 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052483.D
 Acq: 27 Nov 2018 17:13

Tgt Ion	117	Resp	114220
Ion Ratio	Lower	Upper	
117	100		
119	5.4	76.8	115.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 2.417 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

Instrument :

MSVOA_N

ClientSampleId :

PB115074TB

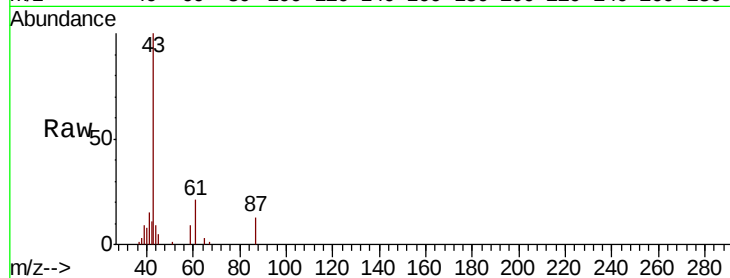
Tot Ion: 43 Resp: 45988

Ion Ratio Lower Upper

43 100

61 20.6 24.1 36.1#

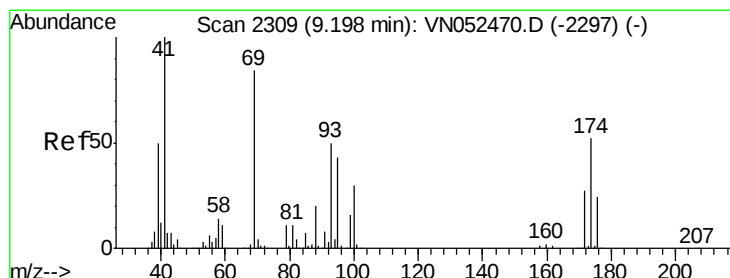
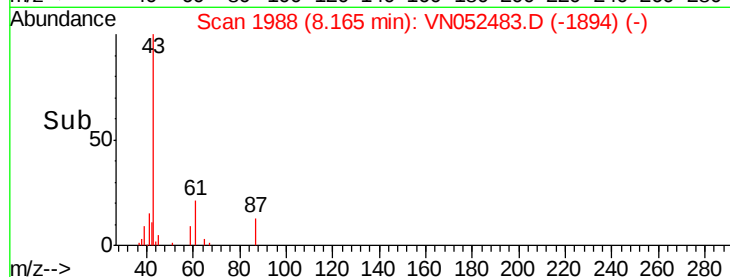
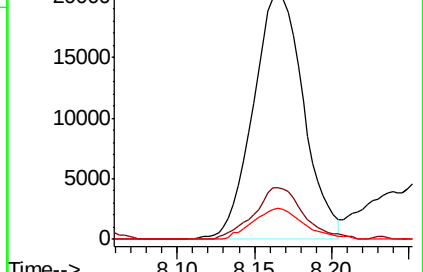
87 12.7 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN052470.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052470.D (-1968) (-)



#48

Methyl methacrylate

Concen: 1.527 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

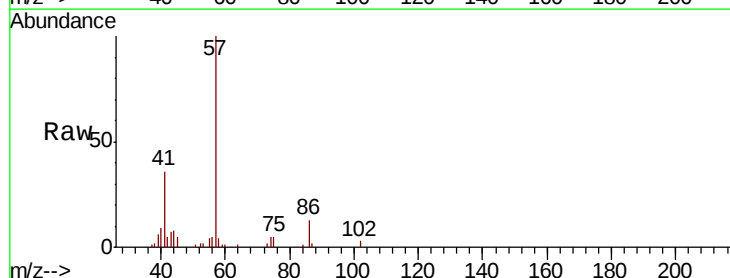
Tgt Ion: 41 Resp: 15148

Ion Ratio Lower Upper

41 100

69 0.0 70.0 105.0#

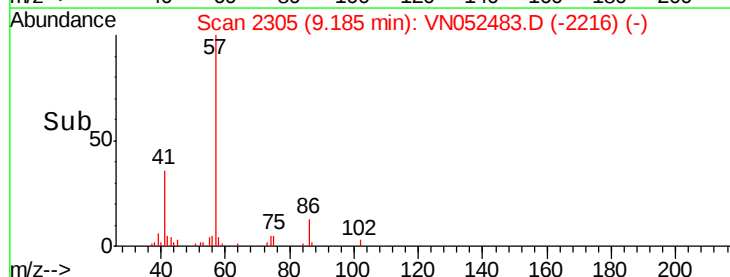
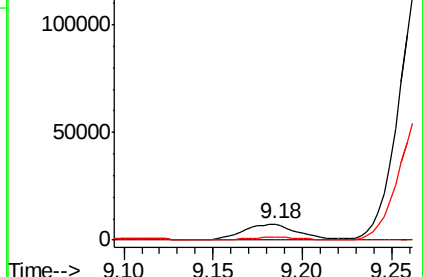
39 0.0 42.6 64.0#

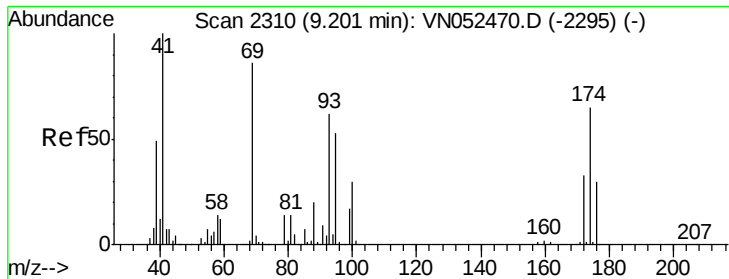


Abundance Ion 41.00 (40.70 to 41.70): VN052470.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN052470.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN052470.D (-2297) (-)





#49

1,4-Dioxane

Concen: 3.739 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

Instrument :

MSVOA_N

ClientSampleId :

PB115074TB

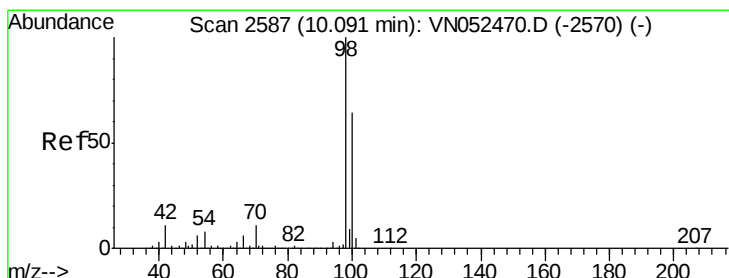
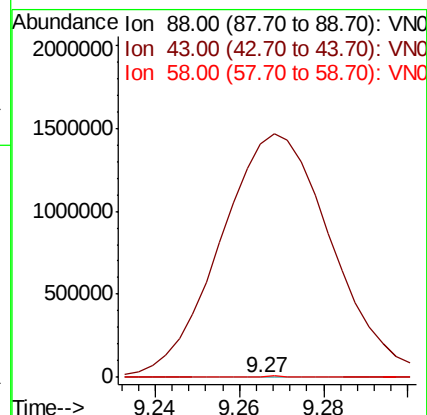
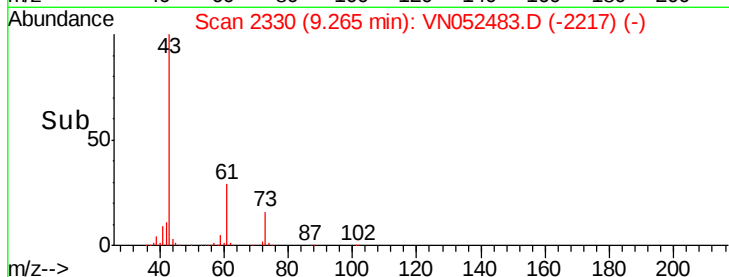
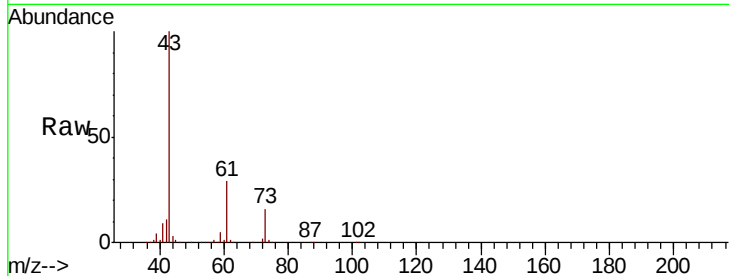
Tot Ion: 88 Resp: 385

Ion Ratio Lower Upper

88 100

43 716015.1 26.4 39.6#

58 3363.4 55.4 83.0#



#50

Toluene-d8

Concen: 3.739 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052483.D

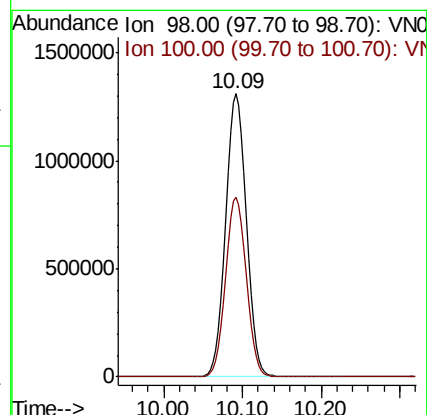
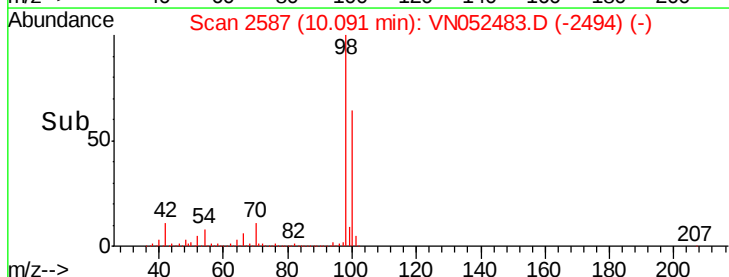
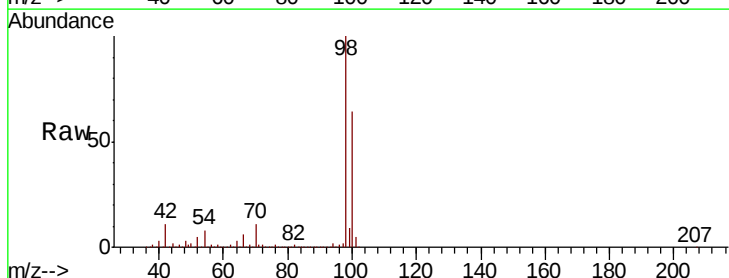
Acq: 27 Nov 2018 17:13

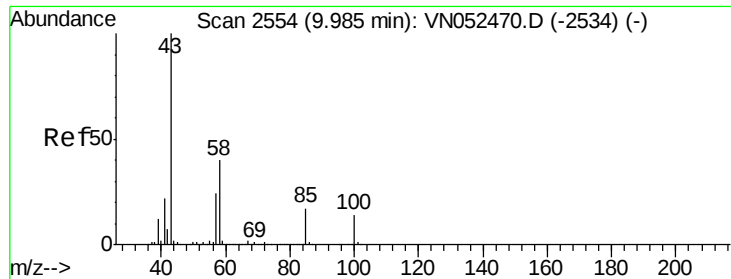
Tgt Ion: 98 Resp: 2382015

Ion Ratio Lower Upper

98 100

100 63.7 51.3 76.9





#51

4-Methyl-2-Pentanone

Concen: 0.772 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

Instrument :

MSVOA_N

ClientSampleId :

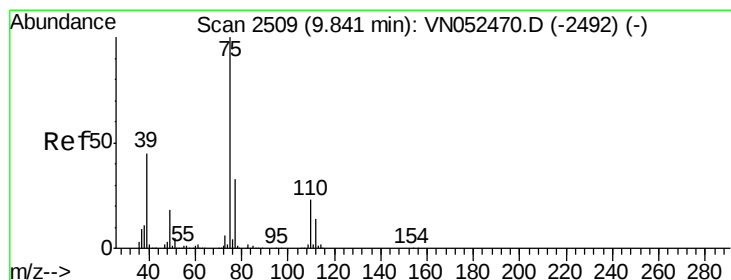
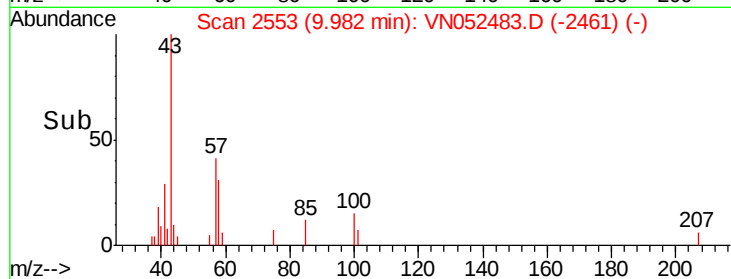
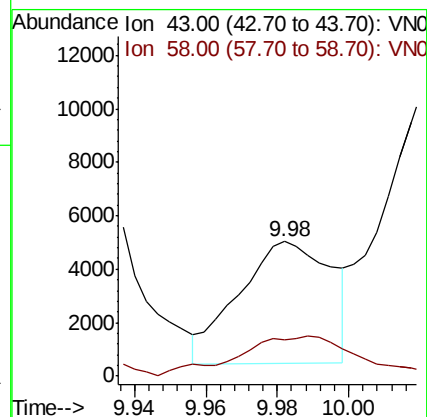
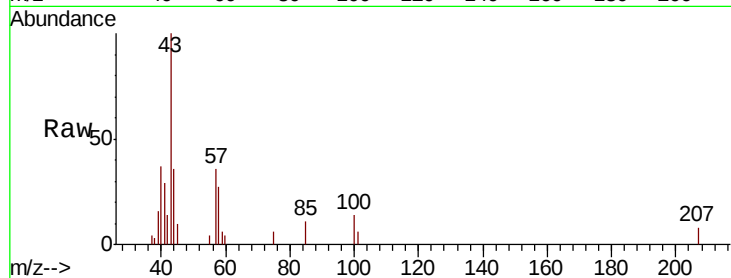
PB115074TB

Tot Ion: 43 Resp: 8244

Ion Ratio Lower Upper

43 100

58 42.6 31.5 47.3



#54

cis-1,3-Dichloropropene

Concen: 6.573 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

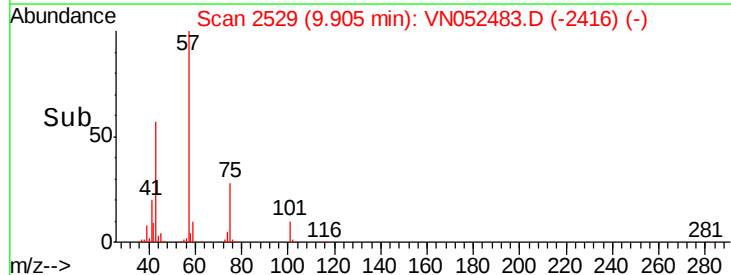
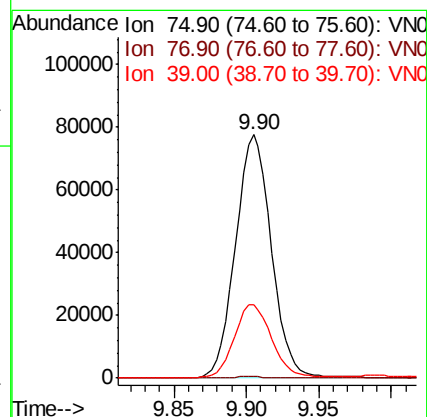
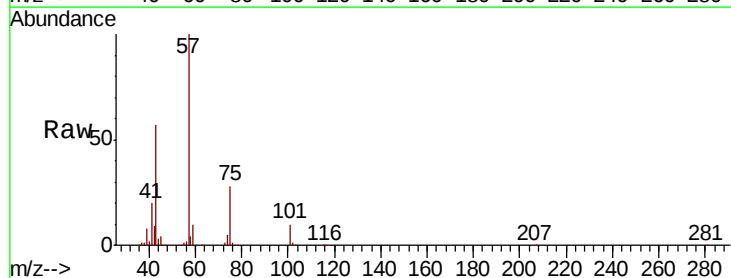
Tgt Ion: 75 Resp: 133155

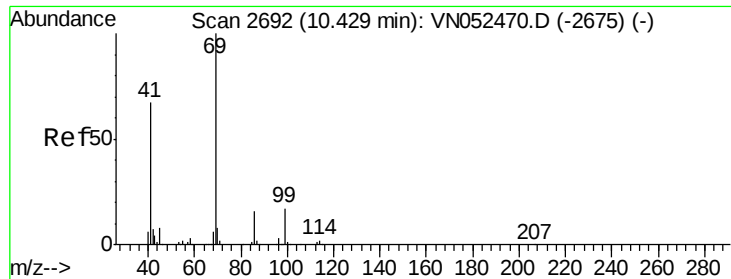
Ion Ratio Lower Upper

75 100

77 0.7 26.2 39.2#

39 29.7 36.0 54.0#





#56

Ethyl methacrylate

Concen: 2.703 ug/l

RT: 10.37 min Scan# 2673

Delta R.T. -0.06 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

Instrument :

MSVOA_N

ClientSampleId :

PB115074TB

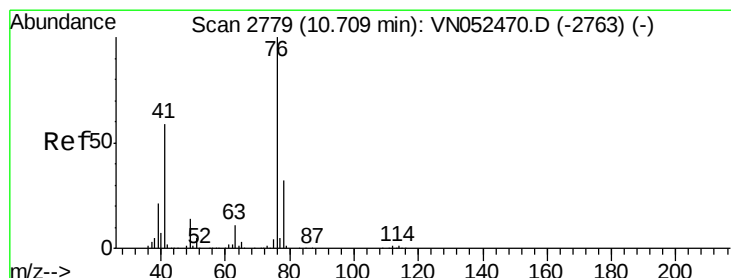
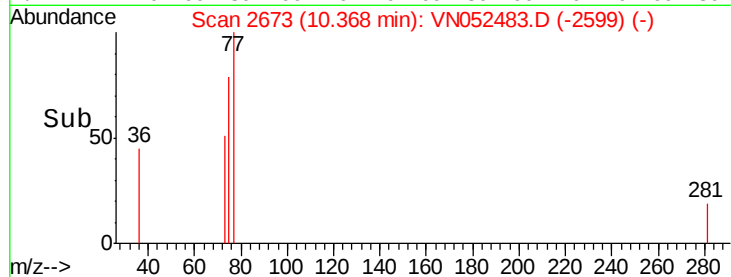
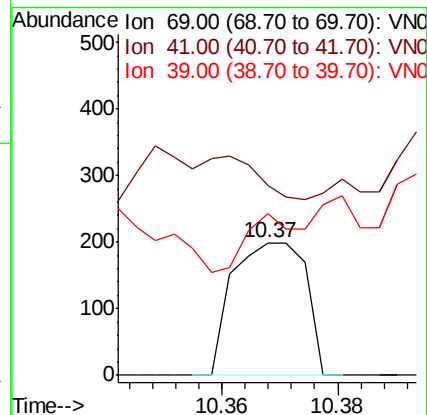
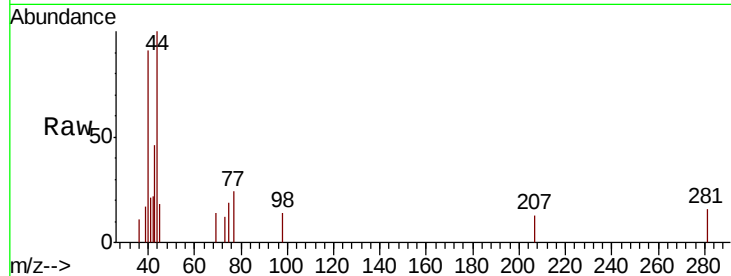
Tot Ion: 69 Resp: 173

Ion Ratio Lower Upper

69 100

41 0.0 52.6 79.0#

39 0.0 25.9 38.9#



#57

1,3-Dichloropropane

Concen: 1.284 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN052483.D

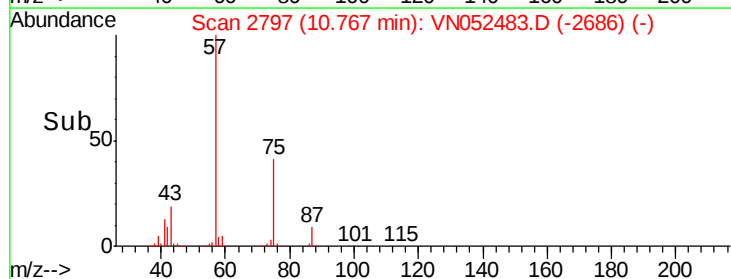
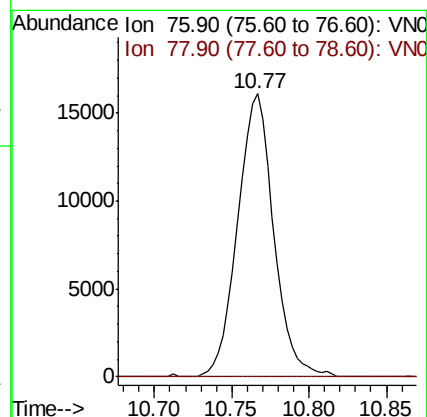
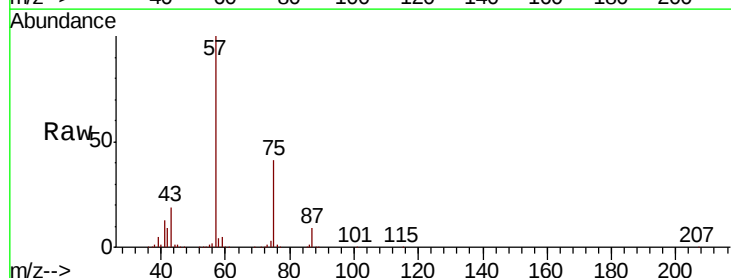
Acq: 27 Nov 2018 17:13

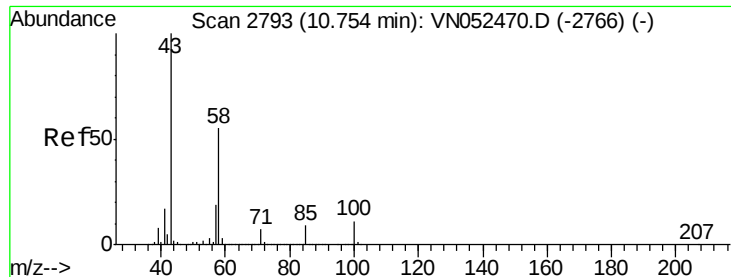
Tgt Ion: 76 Resp: 26019

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#

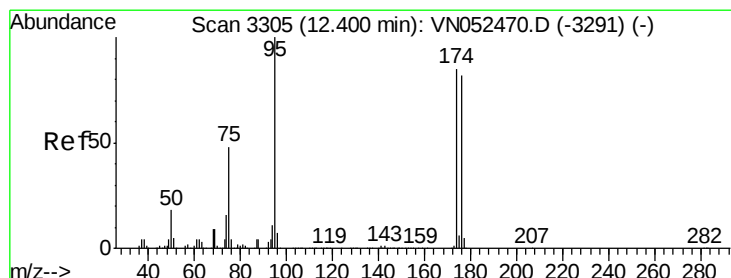
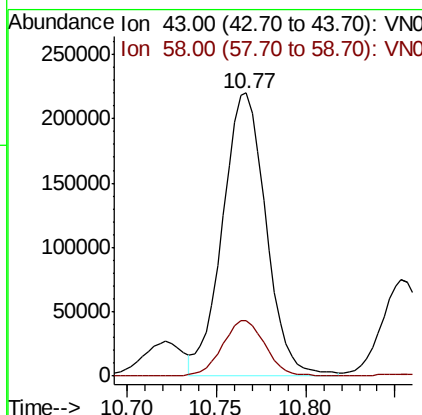
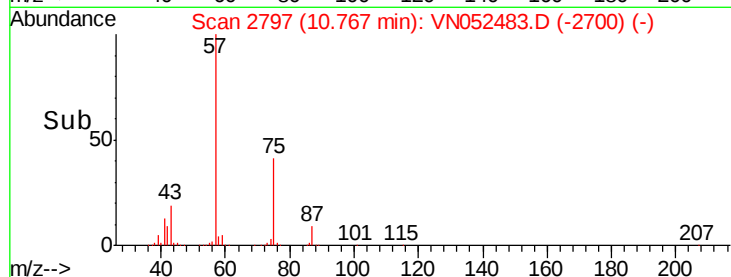
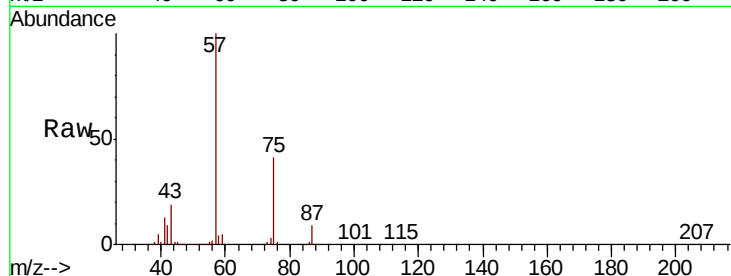




#59
2-Hexanone
Concen: 51.670 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

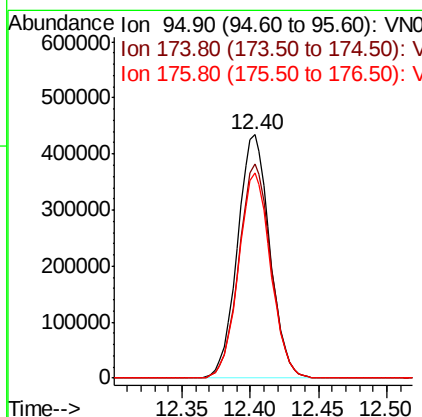
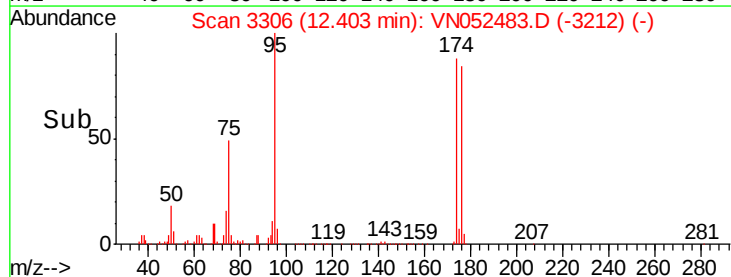
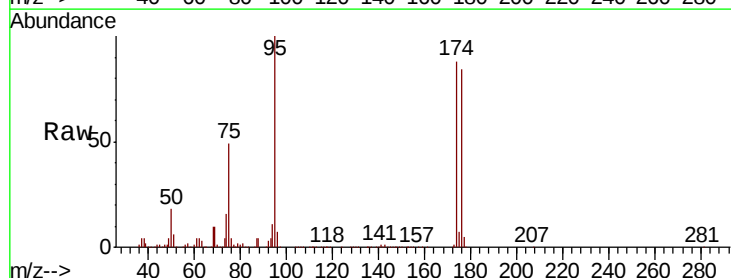
Instrument :
MSVOA_N
ClientSampleId :
PB115074TB

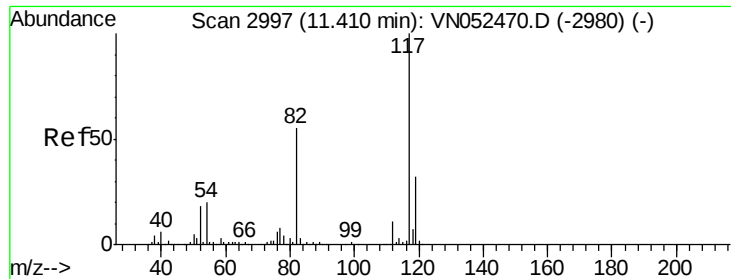
Tot Ion: 43 Resp: 370258
Ion Ratio Lower Upper
43 100
58 19.7 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Tgt Ion: 95 Resp: 712908
Ion Ratio Lower Upper
95 100
174 87.4 0.0 173.0
176 84.0 0.0 166.2

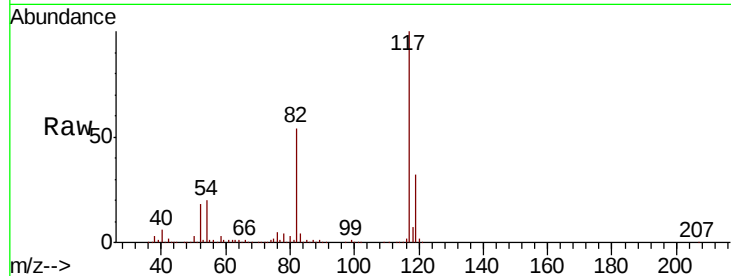




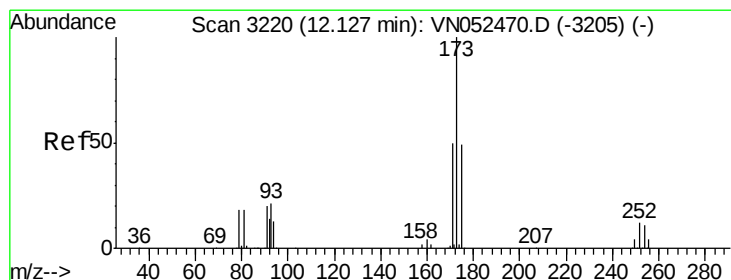
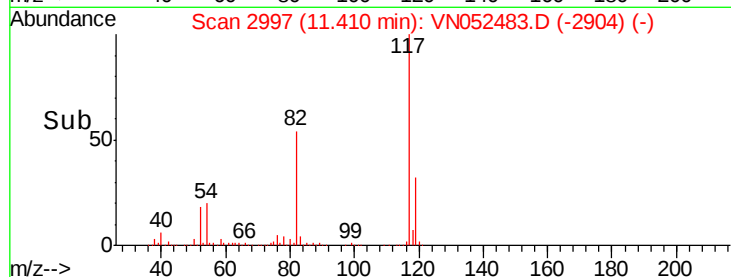
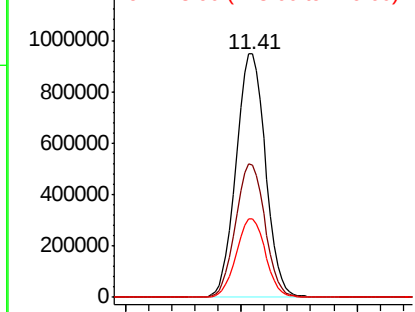
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Instrument :
MSVOA_N
ClientSampleId :
PB115074TB

Tot Ion:117 Resp: 1661998
Ion Ratio Lower Upper
117 100
82 54.1 43.6 65.4
119 32.3 25.4 38.2

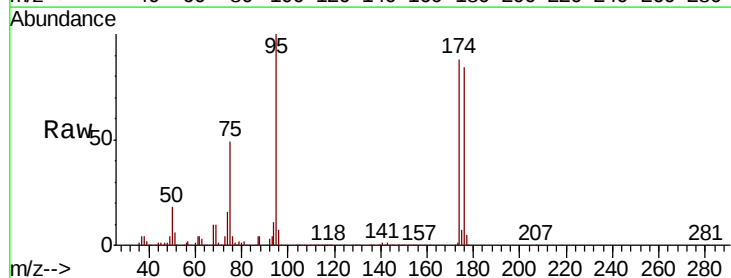


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

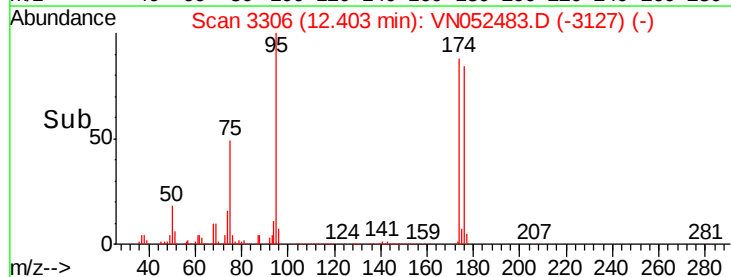
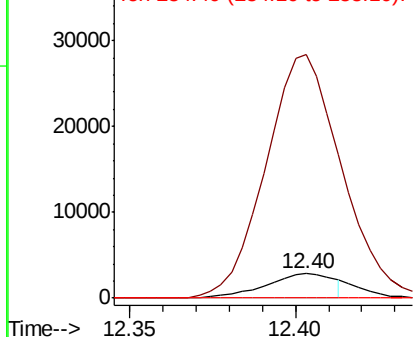


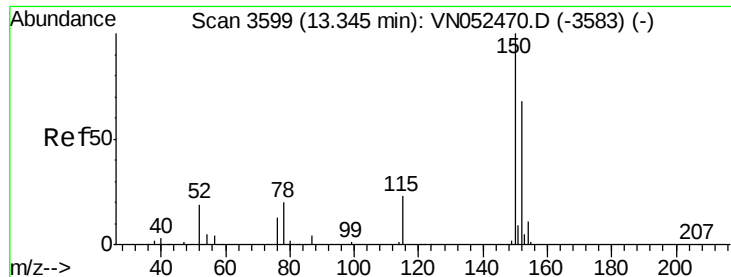
#71
Bromoform
Concen: 0.520 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Tgt Ion:173 Resp: 4104
Ion Ratio Lower Upper
173 100
175 942.3 24.4 73.2#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

Instrument :

MSVOA_N

ClientSampleId :

PB115074TB

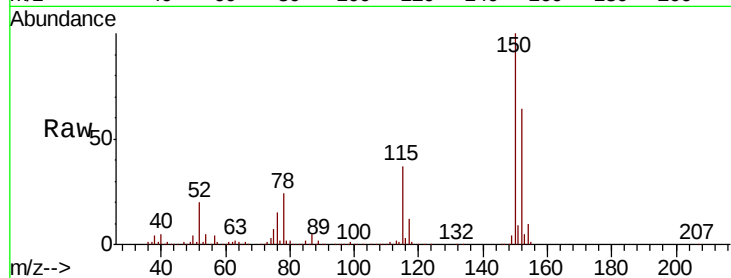
Tot Ion:152 Resp: 588012

Ion Ratio Lower Upper

152 100

115 57.2 28.4 85.2

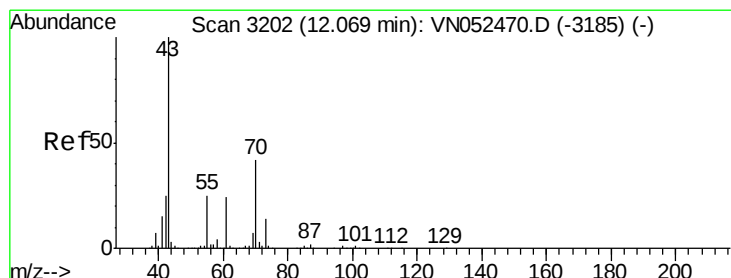
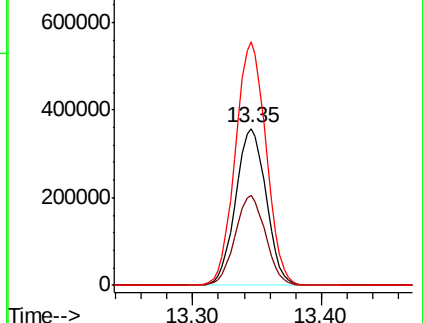
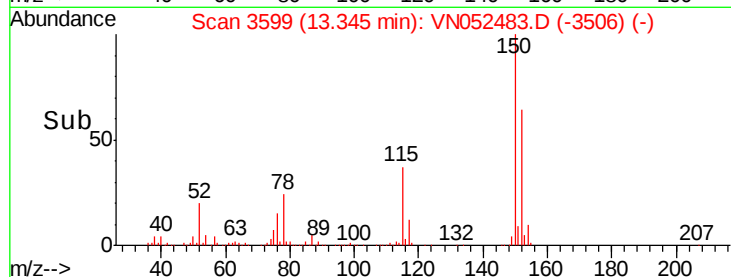
150 156.5 0.0 346.0



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



#74

N-ethyl acetate

Concen: 3.784 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

Tgt Ion: 43 Resp: 44106

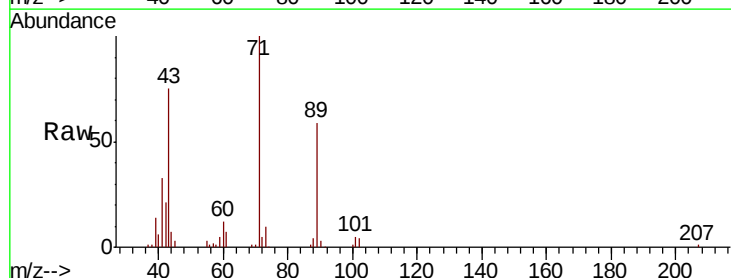
Ion Ratio Lower Upper

43 100

70 1.9 33.8 50.8#

55 4.0 20.0 30.0#

61 9.6 19.7 29.5#

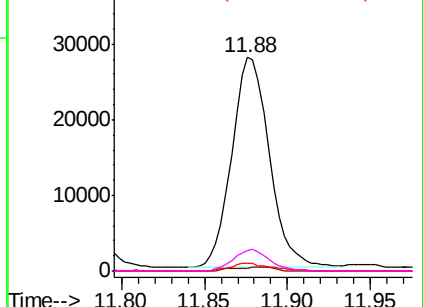
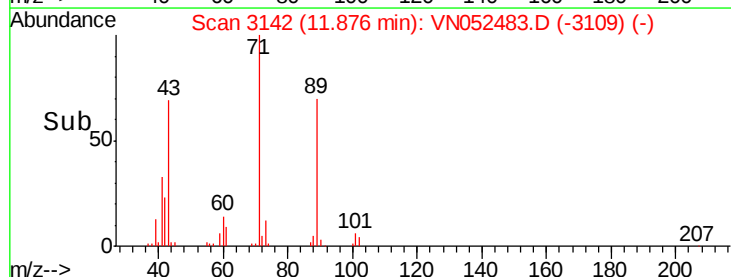


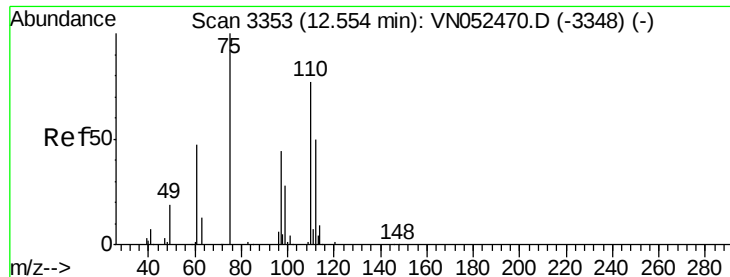
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 37.999 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

Instrument :

MSVOA_N

ClientSampleId :

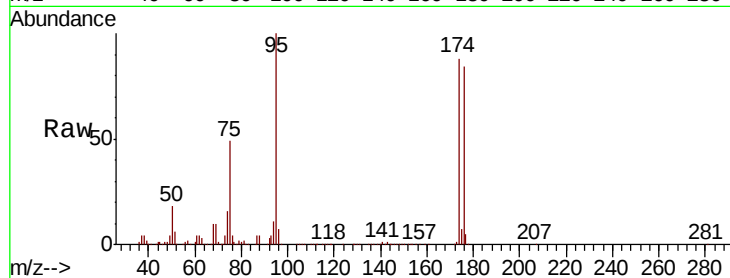
PB115074TB

Tot Ion: 75 Resp: 344559

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052470.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN052470.D (-3348) (-)

250000

200000

150000

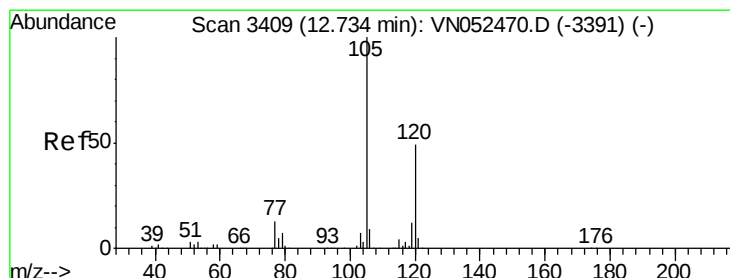
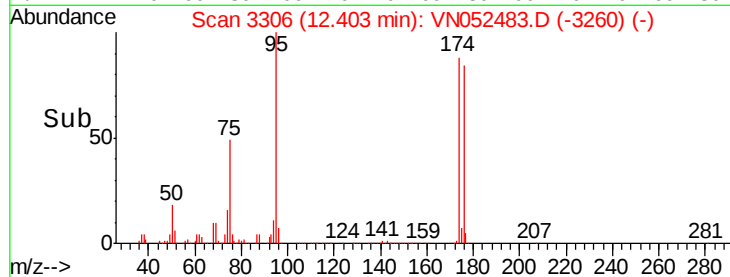
100000

50000

0

12.30 12.40 12.50

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.824 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052483.D

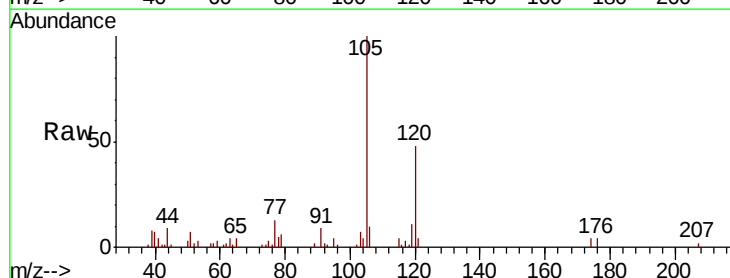
Acq: 27 Nov 2018 17:13

Tgt Ion: 105 Resp: 30324

Ion Ratio Lower Upper

105 100

120 48.6 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN052470.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052470.D (-3391) (-)

20000

15000

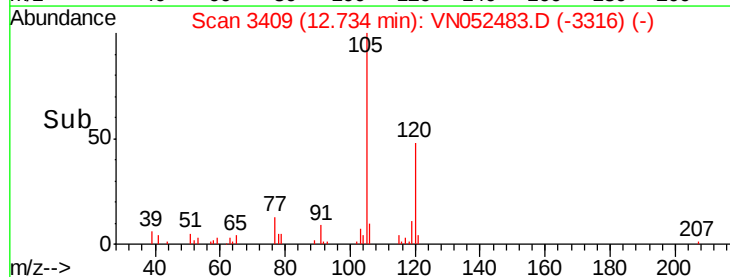
10000

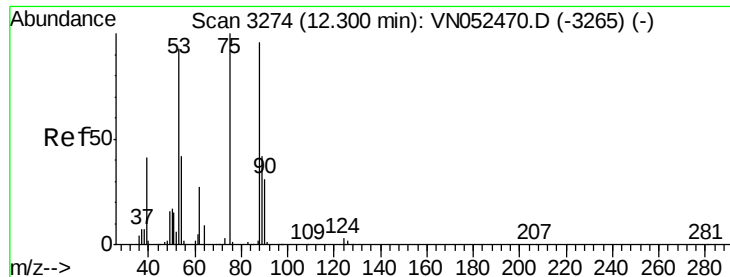
5000

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 126.900 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

Instrument :

MSVOA_N

ClientSampled :

PB115074TB

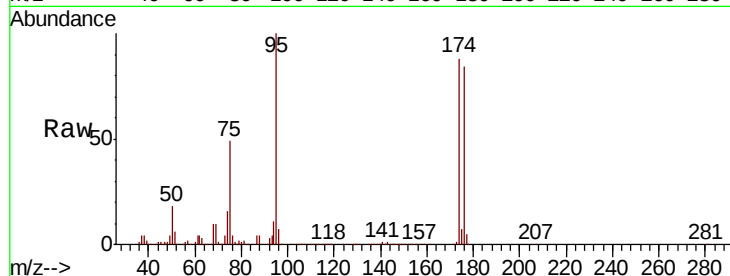
Tot Ion: 75 Resp: 344559

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

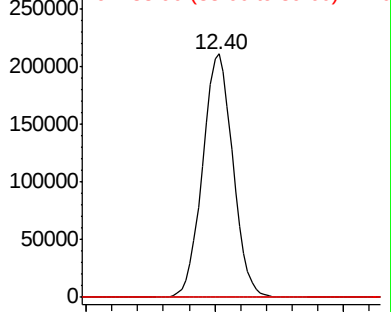
89 0.0 35.4 53.2#



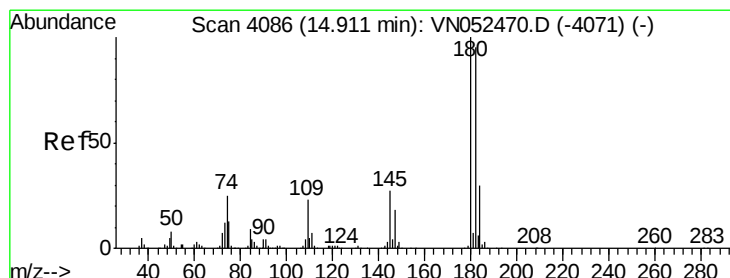
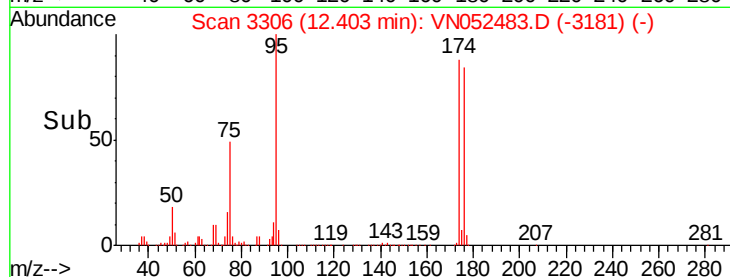
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50



#93

1,2,4-Trichlorobenzene

Concen: 2.900 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN052483.D

Acq: 27 Nov 2018 17:13

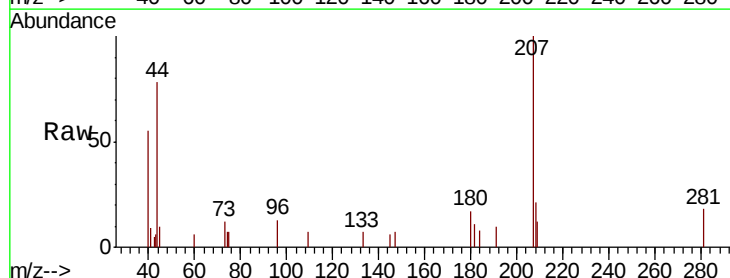
Tgt Ion:180 Resp: 778

Ion Ratio Lower Upper

180 100

182 88.0 47.8 143.4

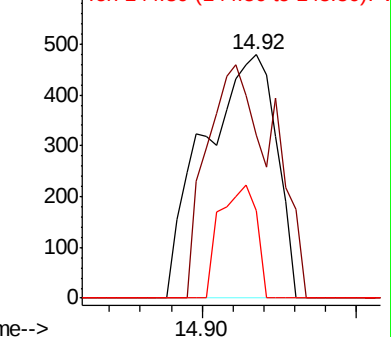
145 23.5 14.1 42.3



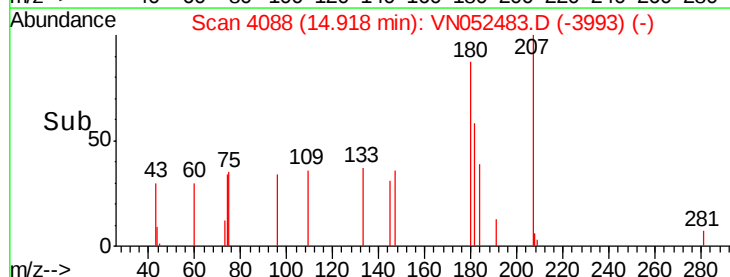
Abundance Ion 179.80 (179.50 to 180.50): V

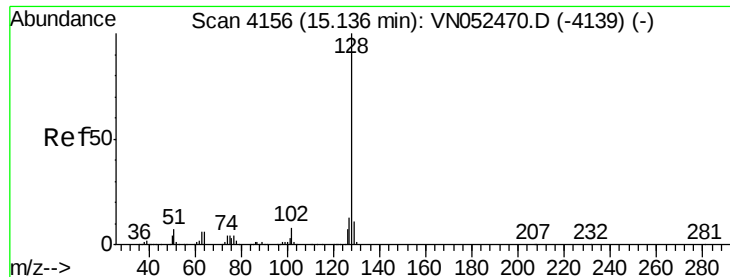
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time--> 14.90

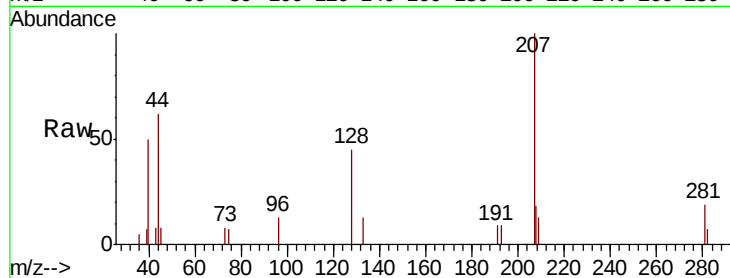




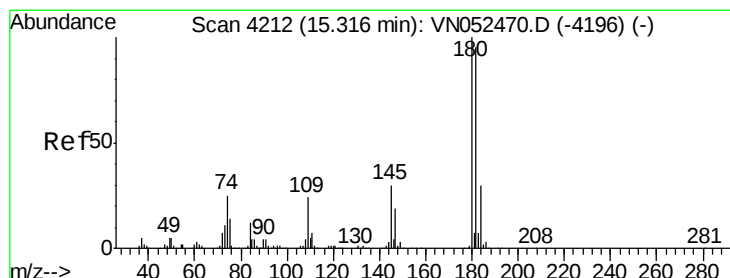
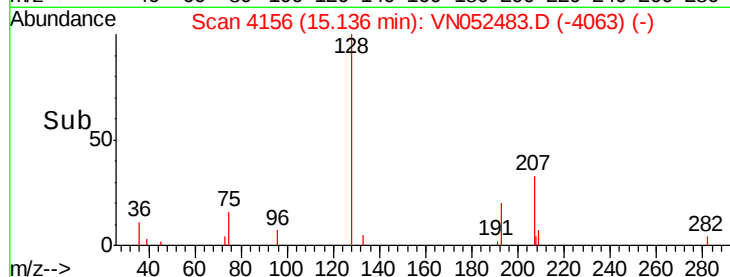
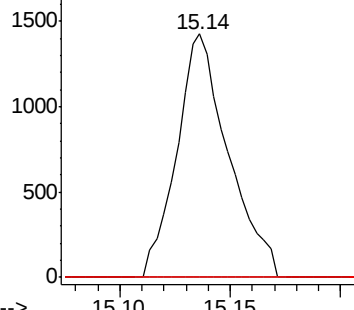
#95
Naphthalene
Concen: 3.526 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Instrument :
MSVOA_N
ClientSampled :
PB115074TB

Tot Ion:128 Resp: 2316
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.7 13.1#

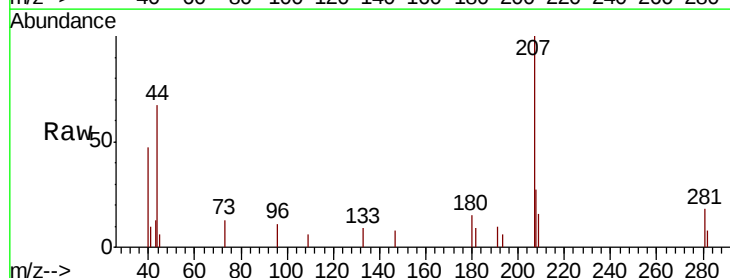


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.791 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052483.D
Acq: 27 Nov 2018 17:13

Tgt Ion:180 Resp: 651
Ion Ratio Lower Upper
180 100
182 92.8 47.8 143.3
145 0.0 15.2 45.5#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

