

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120318\
 Data File : VN052622.D
 Acq On : 3 Dec 2018 10:54
 Operator : MD\SY
 Sample : PB115231TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115231TB

Quant Time: Dec 04 00:30:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1226836	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1885995	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1642744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	590911	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	642473	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	7.59	113	580965	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
50) Toluene-d8	10.09	98	2313405	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	12.40	95	703866	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	

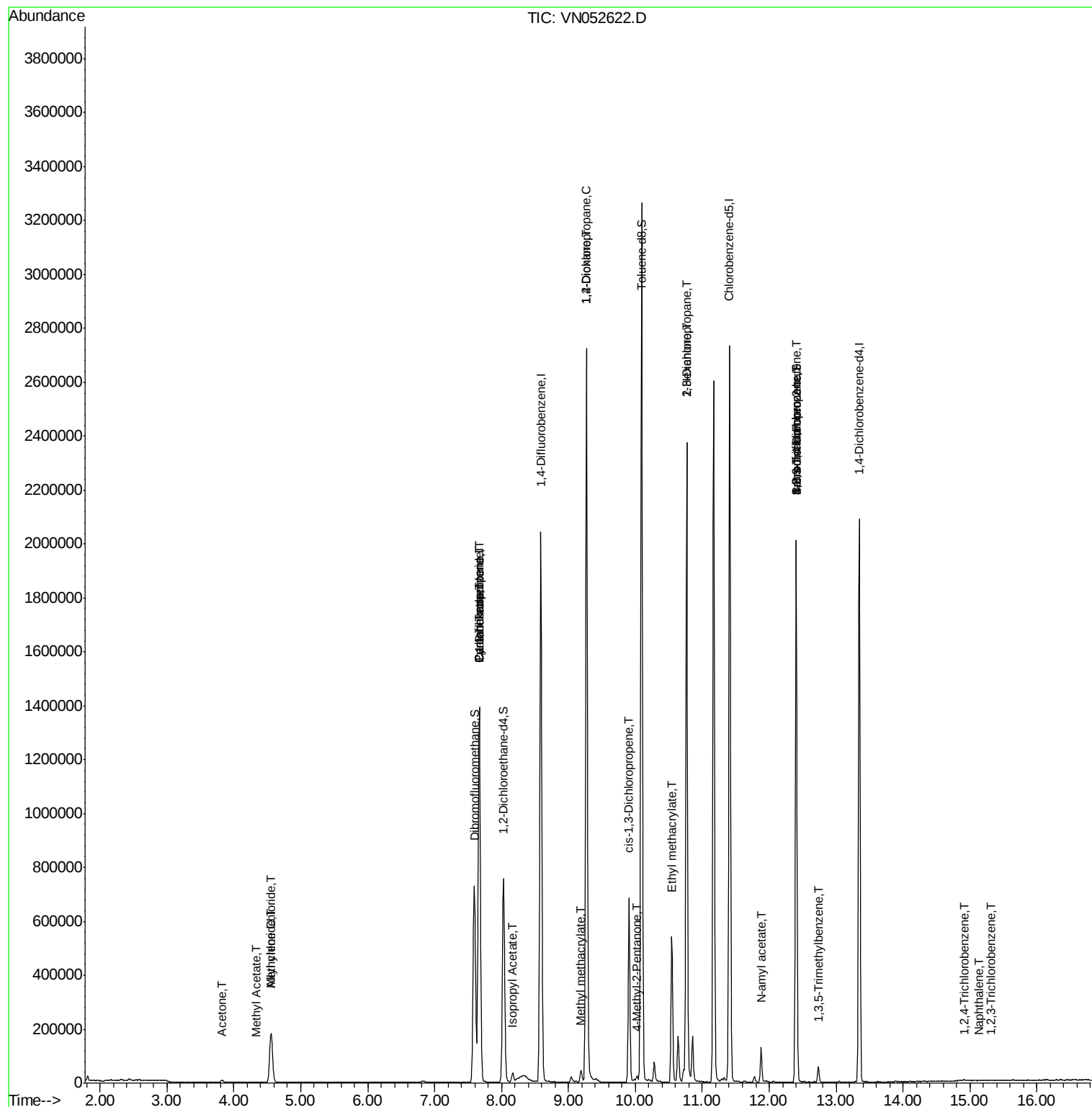
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.55	41	5830	0.294	ug/l #	27
16) Acetone	3.83	43	14933	4.238	ug/l	100
18) Methyl Acetate	4.33	43	2061	0.204	ug/l	96
20) Methylene Chloride	4.56	84	143009	10.372	ug/l	97
31) Cyclohexane	7.67	56	20733	0.540	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	85971	4.827	ug/l #	49
38) Carbon Tetrachloride	7.67	117	109307	6.780	ug/l #	16
43) Isopropyl Acetate	8.17	43	43131	2.345	ug/l #	87
45) 1,2-Dichloropropane	9.27	63	3315	0.235	ug/l #	43
48) Methyl methacrylate	9.18	41	15055	1.570	ug/l #	13
49) 1,4-Dioxane	9.27	88	385	3.868	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	19274	1.868	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	124879	6.378	ug/l #	61
56) Ethyl methacrylate	10.54	69	1807	2.804	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	25058	1.279	ug/l #	43
59) 2-Hexanone	10.76	43	352325	50.866	ug/l #	52
71) Bromoform	12.40	173	4039	0.518	ug/l #	1
74) N-amyl acetate	11.88	43	40309	3.442	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	337269	37.013	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	28499	0.771	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	337269	123.606	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	472	2.872	ug/l #	71
95) Naphthalene	15.14	128	1843	3.506	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.31	180	519	2.778	ug/l	77

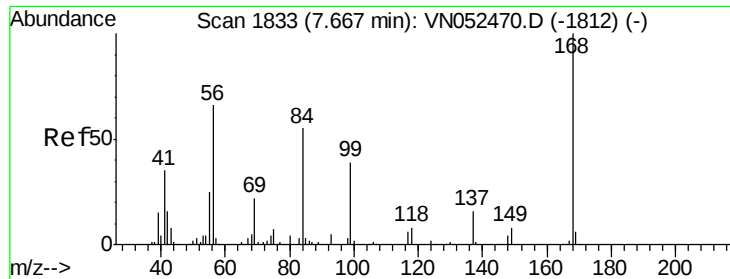
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120318\
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ClientSampleId :
PB115231TB

Quant Time: Dec 04 00:30:44 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampled :

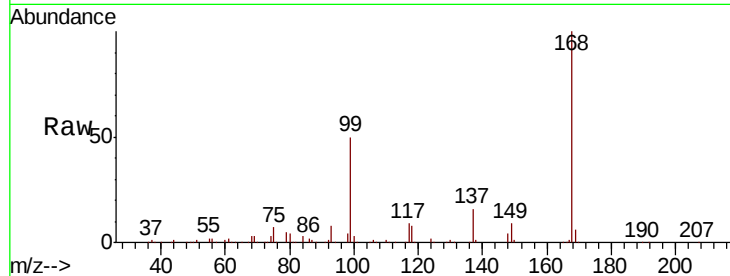
PB115231TB

Tot Ion:168 Resp: 1226836

Ion Ratio Lower Upper

168 100

99 49.6 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

600000

500000

400000

300000

200000

100000

0

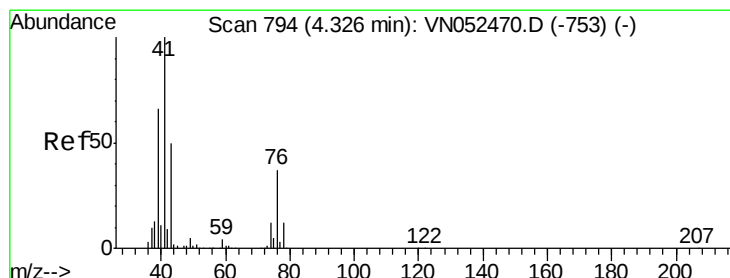
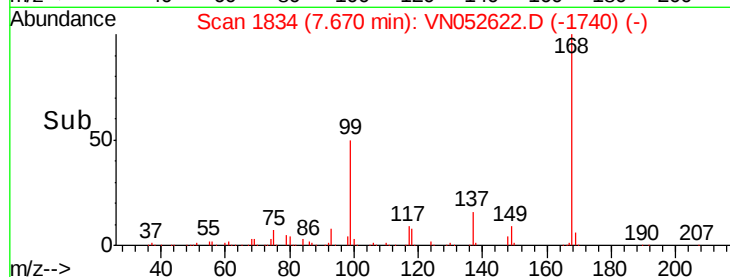
7.67

7.60

7.70

7.80

Time-->



#14

Allyl chloride

Concen: 0.294 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.23 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

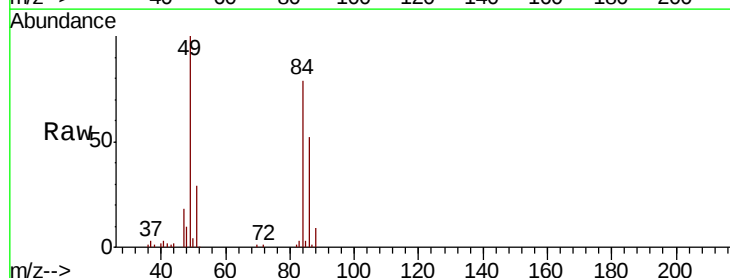
Tgt Ion: 41 Resp: 5830

Ion Ratio Lower Upper

41 100

39 1.1 50.6 76.0#

76 0.0 27.4 41.2#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

2500

2000

1500

1000

500

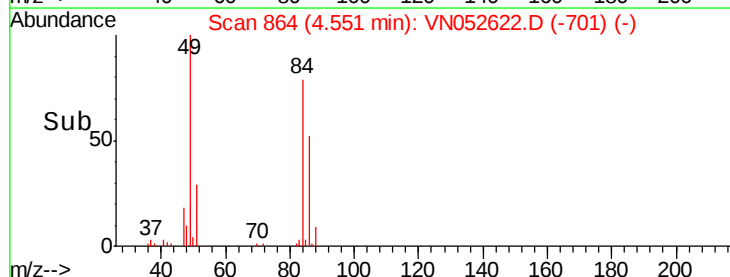
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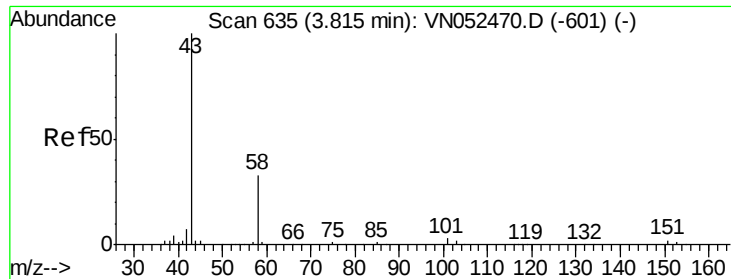
4.55

4.50

4.60

Time-->





#16

Acetone

Concen: 4.238 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampled :

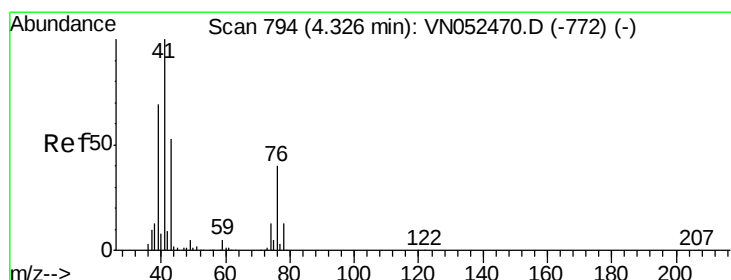
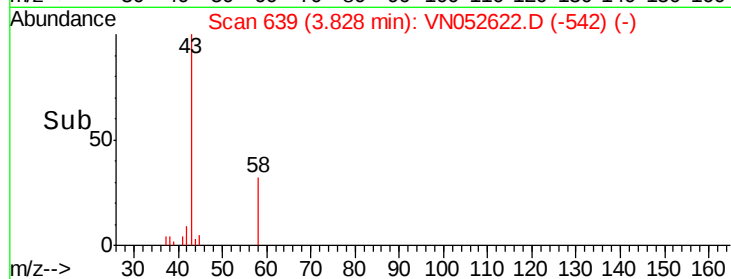
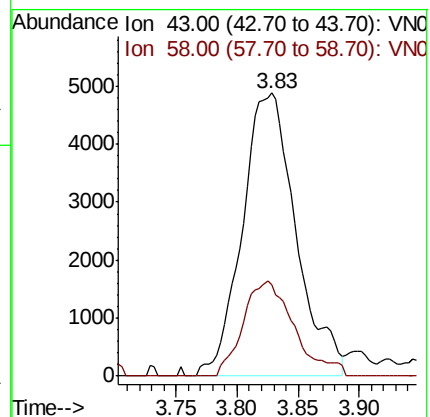
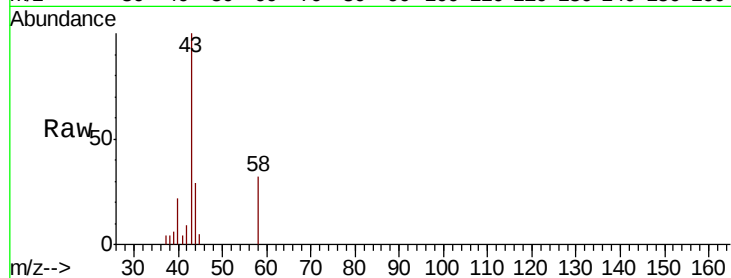
PB115231TB

Tot Ion: 43 Resp: 14933

Ion Ratio Lower Upper

43 100

58 32.2 26.0 39.0



#18

Methyl Acetate

Concen: 0.204 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052622.D

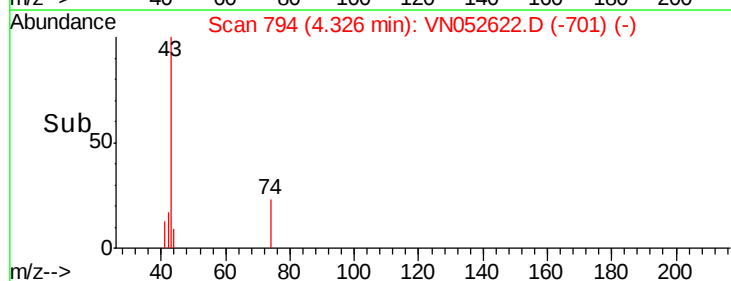
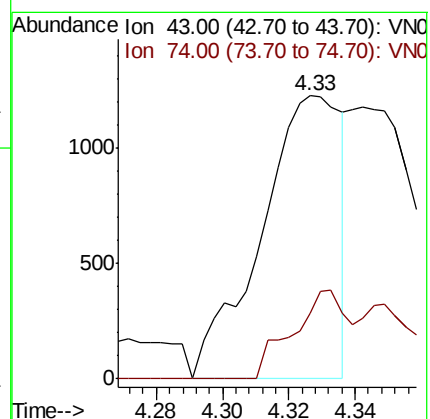
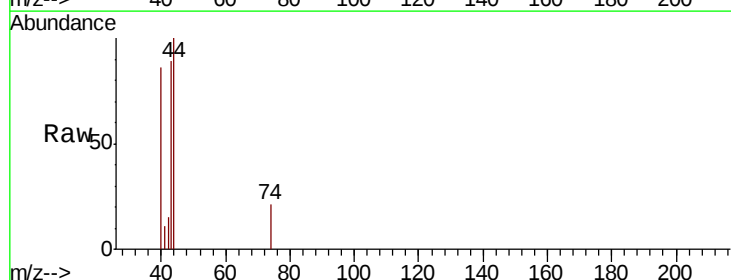
Acq: 3 Dec 2018 10:54

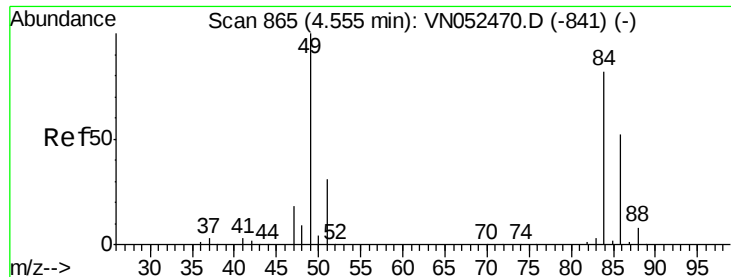
Tgt Ion: 43 Resp: 2061

Ion Ratio Lower Upper

43 100

74 21.3 18.6 27.8

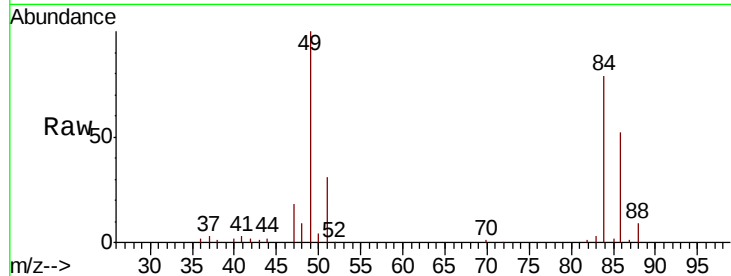




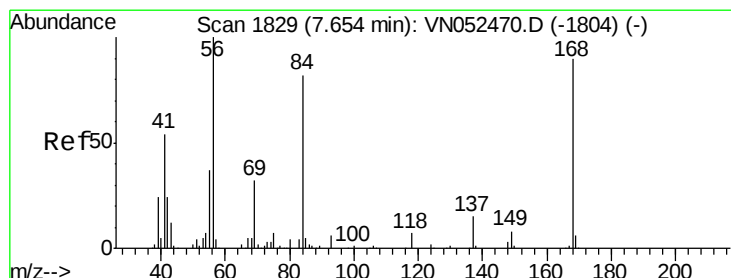
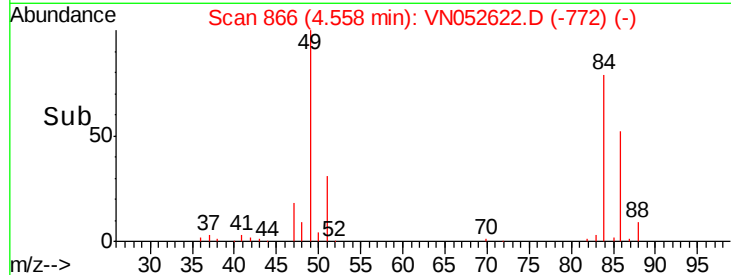
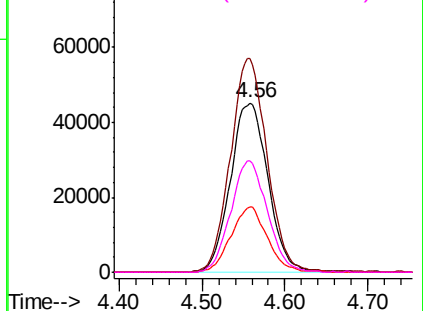
#20
Methylene Chloride
Concen: 10.372 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052622.D
Acq: 3 Dec 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
PB115231TB

Tot Ion: 84 Resp: 143009
Ion Ratio Lower Upper
84 100
49 126.3 98.0 147.0
51 39.0 30.1 45.1
86 66.2 50.7 76.1

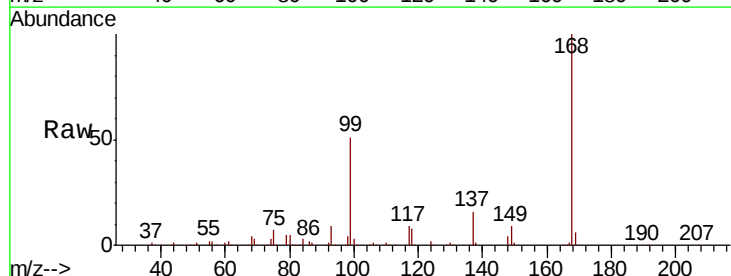


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

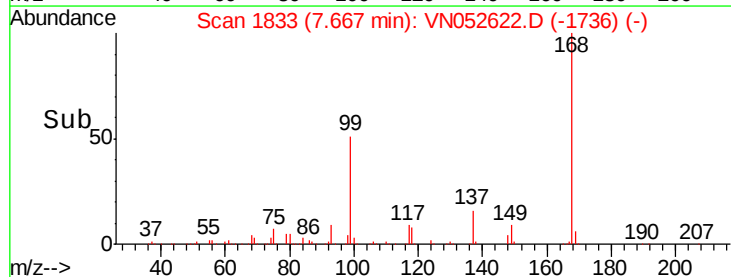
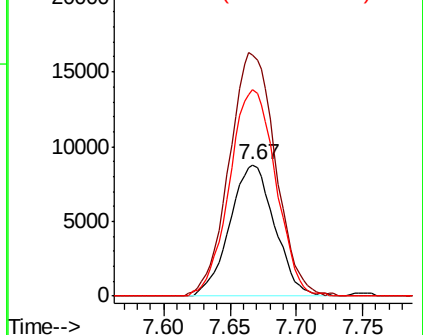


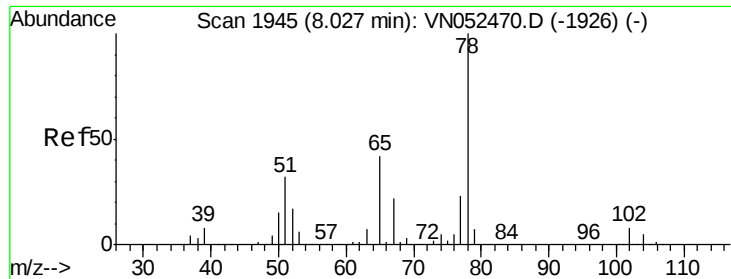
#31
Cyclohexane
Concen: 0.540 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052622.D
Acq: 3 Dec 2018 10:54

Tgt Ion: 56 Resp: 20733
Ion Ratio Lower Upper
56 100
69 184.0 25.8 38.6#
84 157.0 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

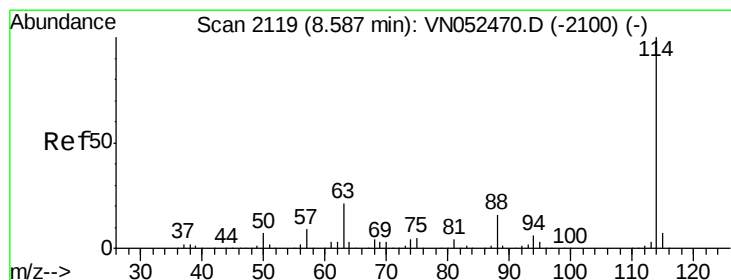
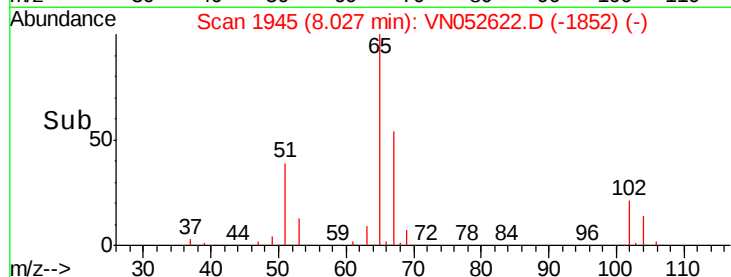
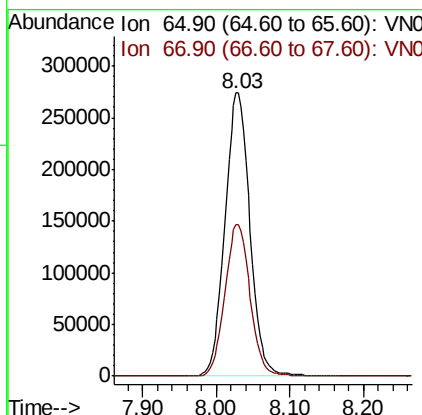
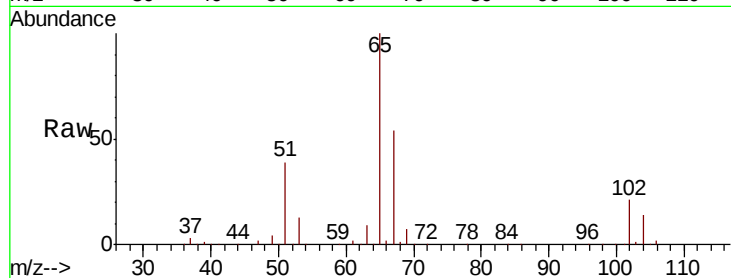




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052622.D
 Acq: 3 Dec 2018 10:54

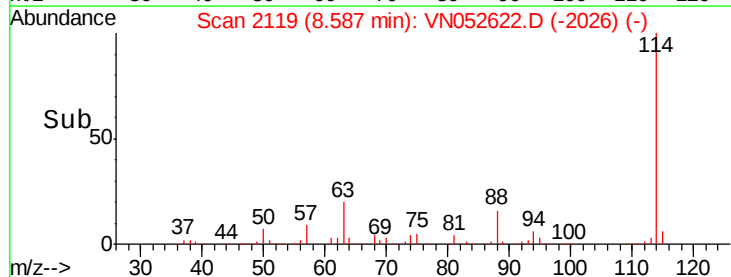
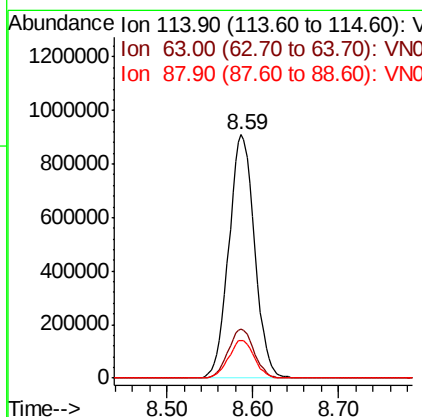
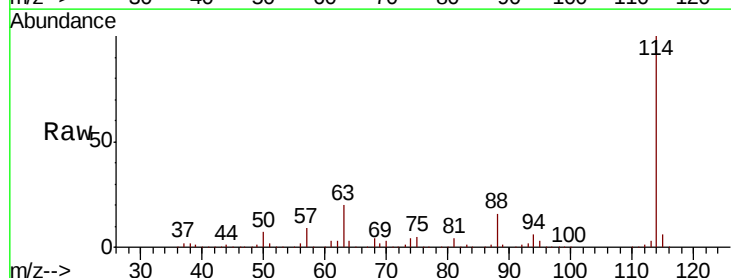
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115231TB

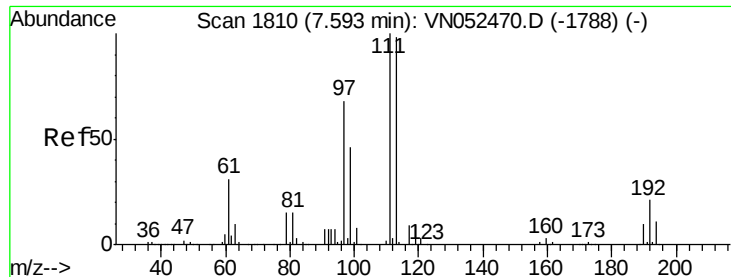
Tot Ion: 65 Resp: 642473
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052622.D
 Acq: 3 Dec 2018 10:54

Tgt Ion: 114 Resp: 1885995
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.8
 88 15.6 0.0 31.6

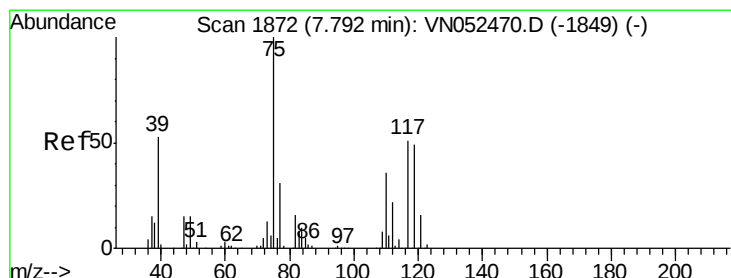
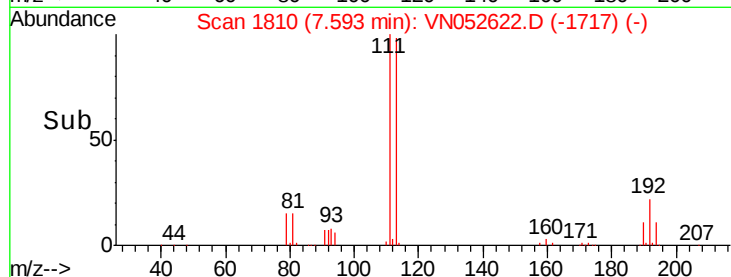
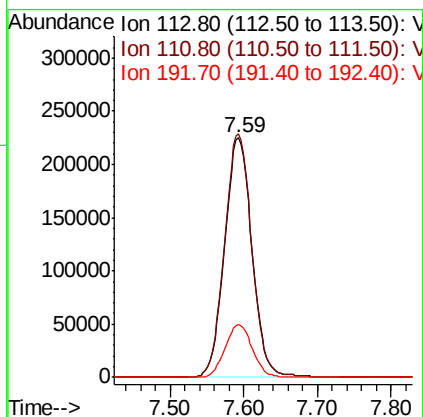
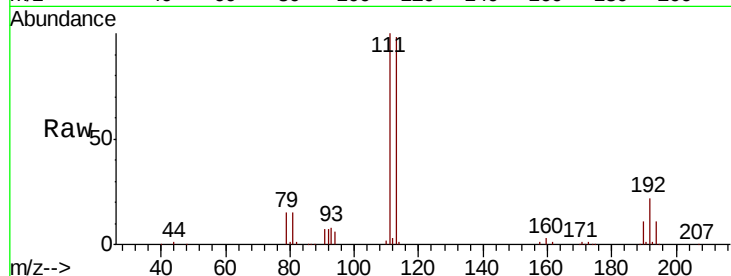




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052622.D
 Acq: 3 Dec 2018 10:54

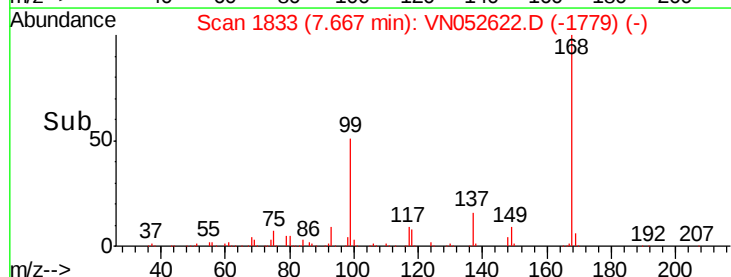
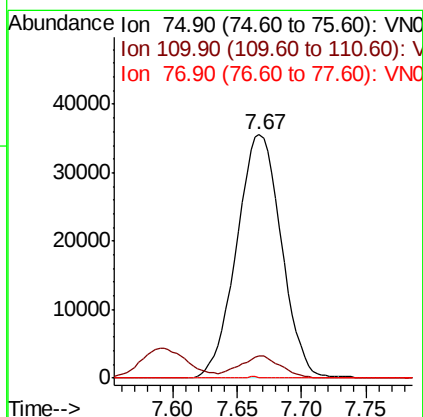
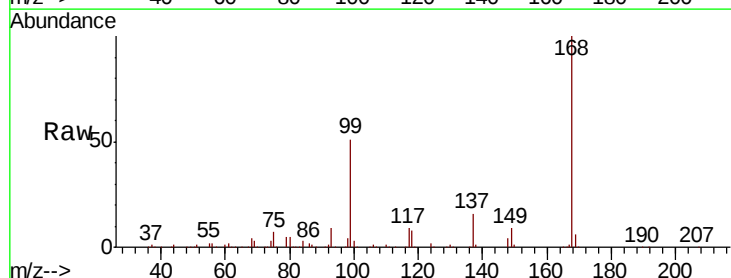
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115231TB

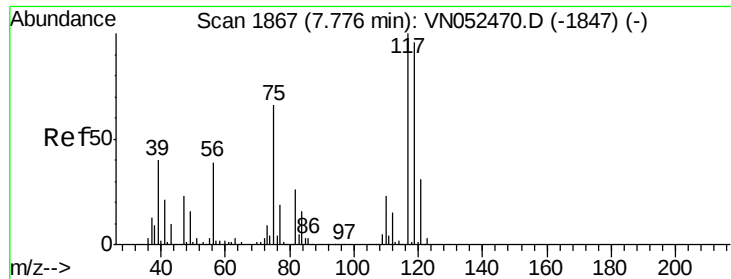
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.0	123.0
192	22.0	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 4.827 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052622.D
 Acq: 3 Dec 2018 10:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.5	52.6#
77	0.1	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.780 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

PB115231TB

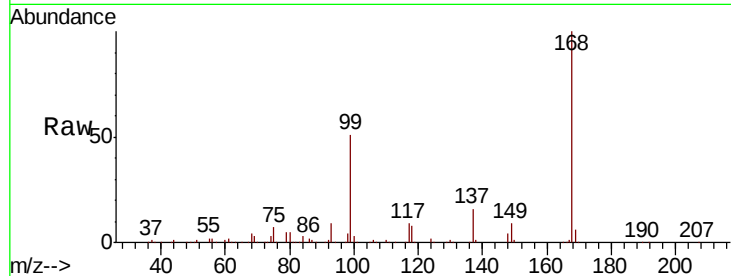
Tot Ion:117 Resp: 109307

Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

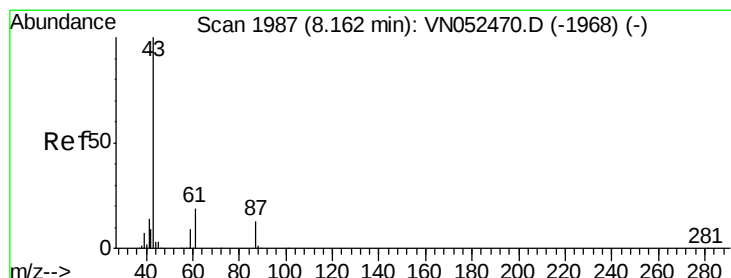
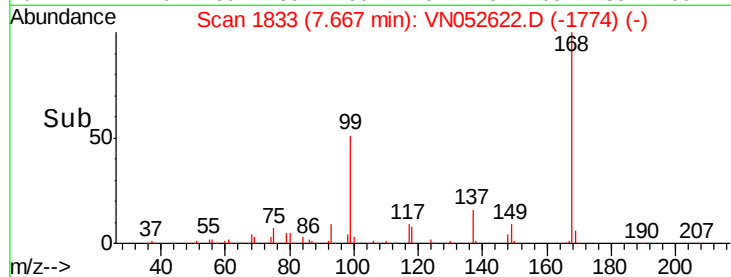
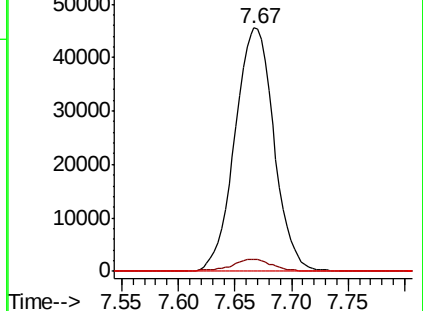
121 0.0 24.9 37.3#



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: 2.345 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

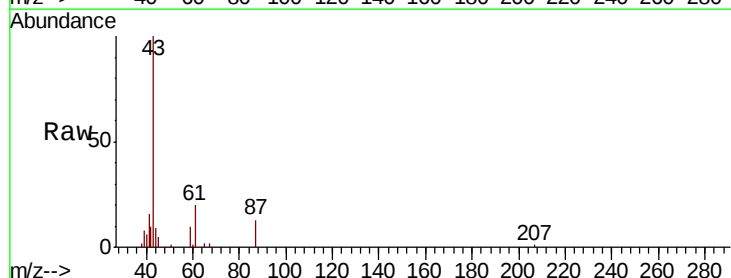
Tgt Ion: 43 Resp: 43131

Ion Ratio Lower Upper

43 100

61 20.6 24.1 36.1#

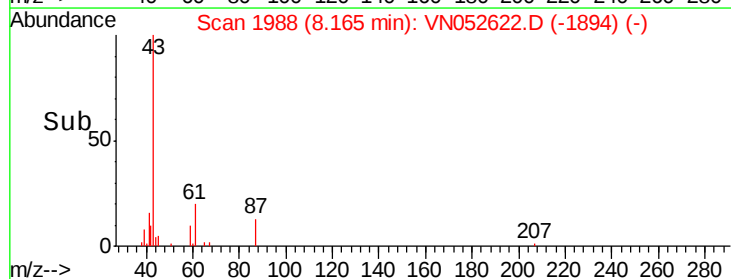
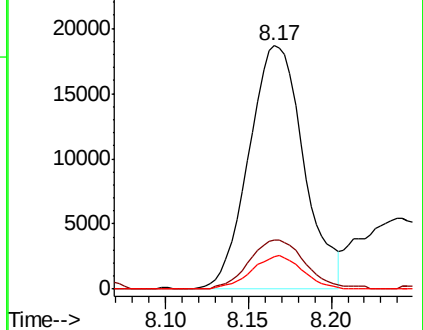
87 12.7 10.6 15.8

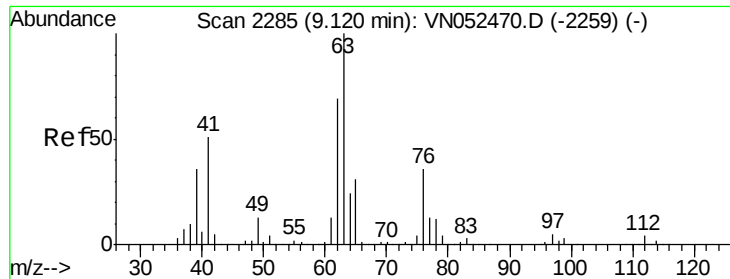


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

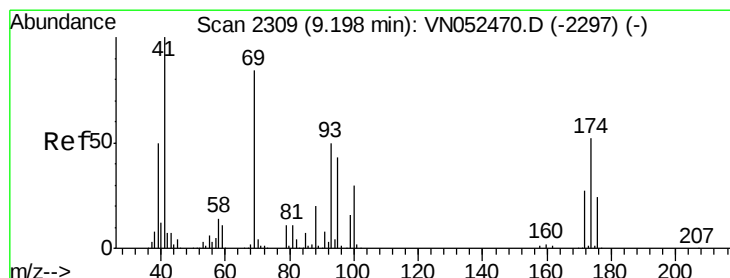
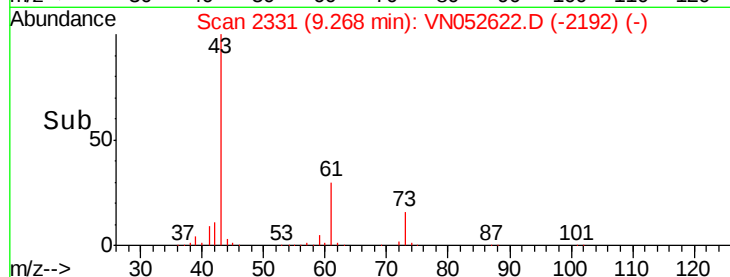
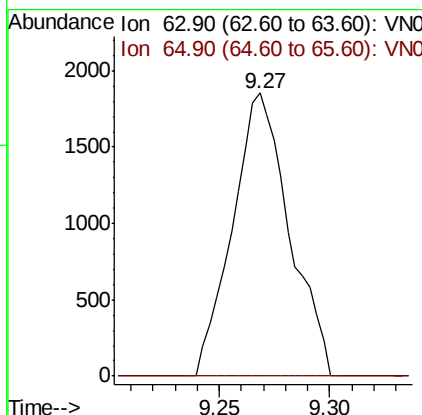
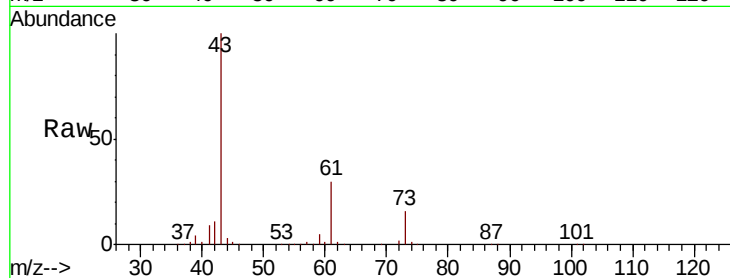




#45
 1,2-Dichloropropane
 Concen: 0.235 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN052622.D
 Acq: 3 Dec 2018 10:54

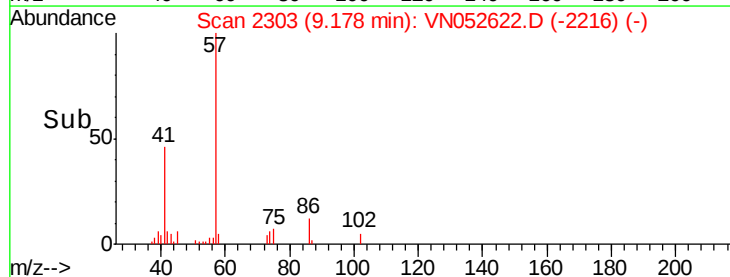
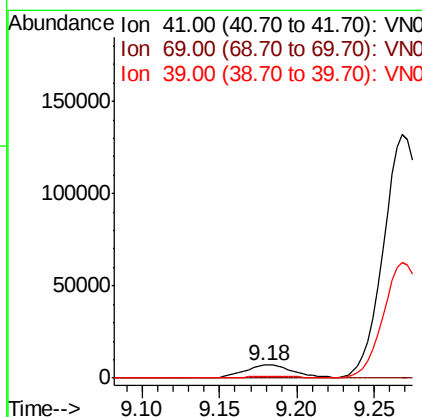
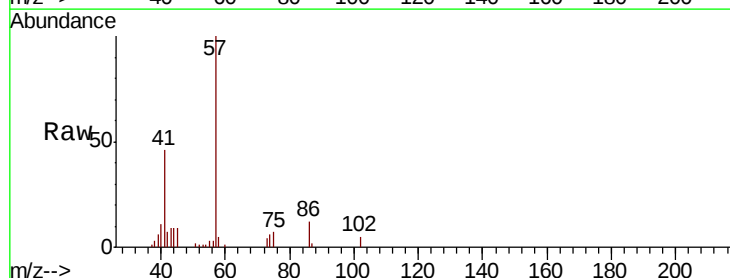
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115231TB

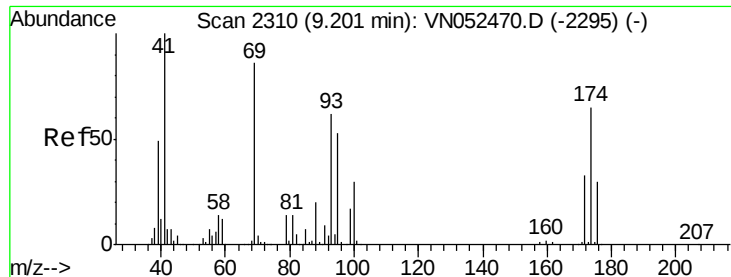
Tot Ion: 63 Resp: 3315
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.570 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN052622.D
 Acq: 3 Dec 2018 10:54

Tgt Ion: 41 Resp: 15055
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.0 105.0#
 39 0.0 42.6 64.0#





#49

1,4-Dioxane

Concen: 3.868 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.07 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

PB115231TB

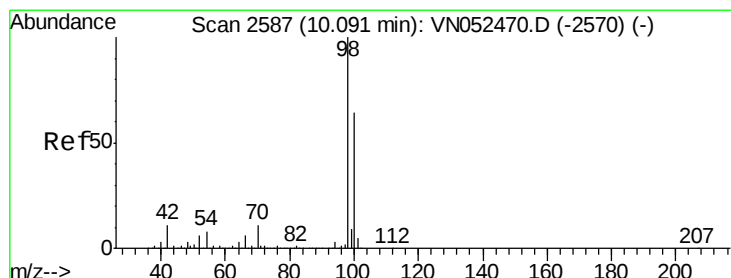
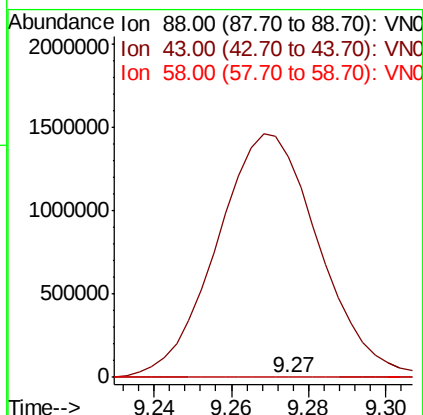
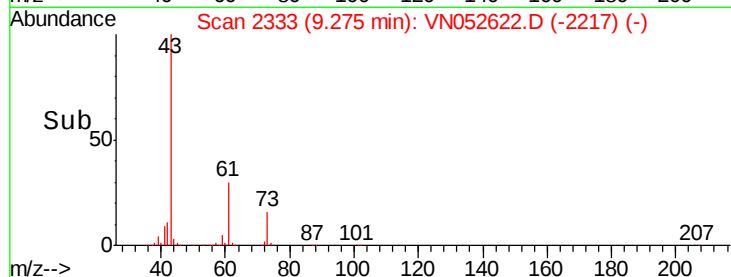
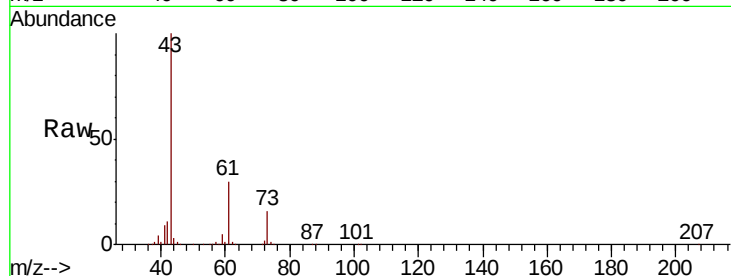
Tot Ion: 88 Resp: 385

Ion Ratio Lower Upper

88 100

43 706042.1 26.4 39.6#

58 3088.1 55.4 83.0#



#50

Toluene-d8

Concen: 3.868 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052622.D

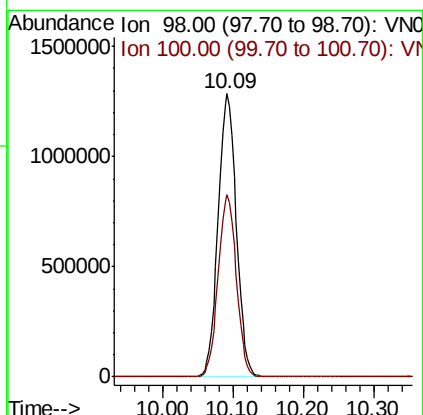
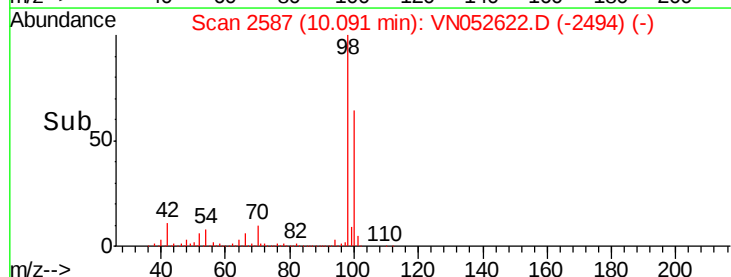
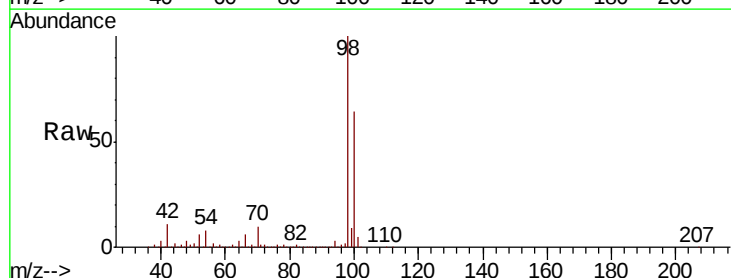
Acq: 3 Dec 2018 10:54

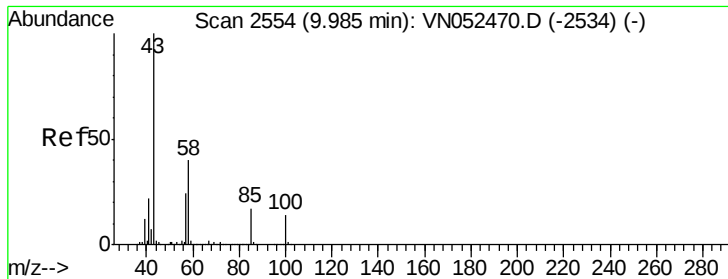
Tgt Ion: 98 Resp: 2313405

Ion Ratio Lower Upper

98 100

100 64.3 51.3 76.9





#51

4-Methyl-2-Pentanone

Concen: 1.868 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampled :

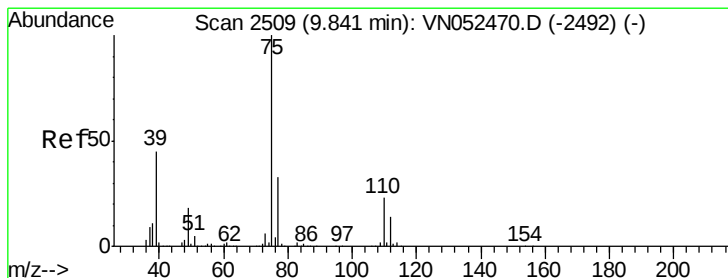
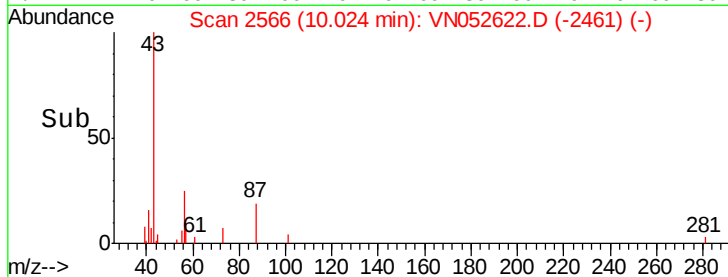
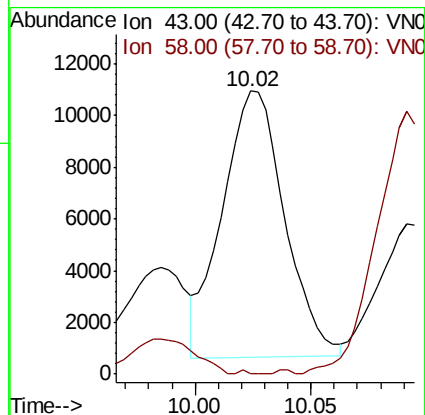
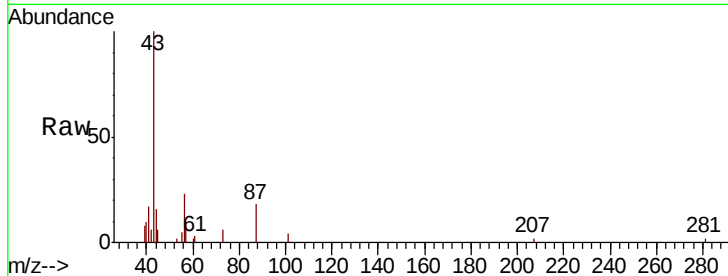
PB115231TB

Tot Ion: 43 Resp: 19274

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#



#54

cis-1,3-Dichloropropene

Concen: 6.378 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

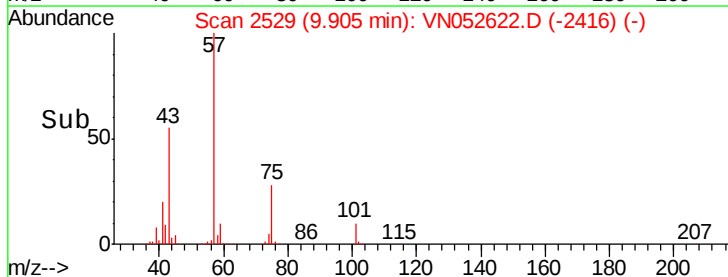
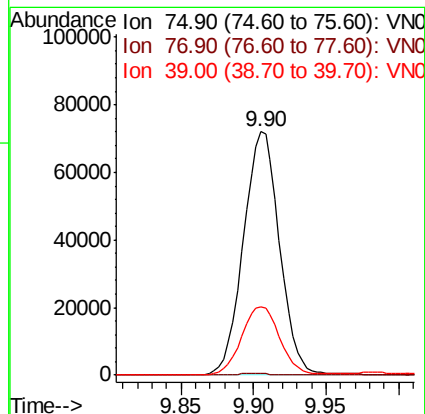
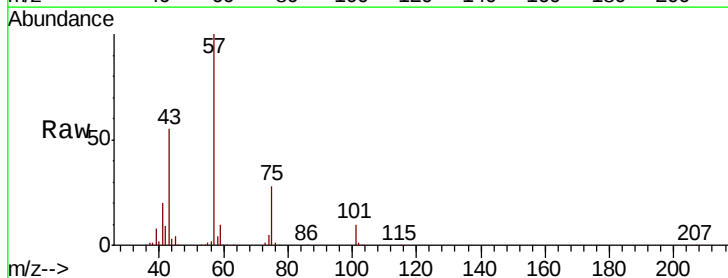
Tgt Ion: 75 Resp: 124879

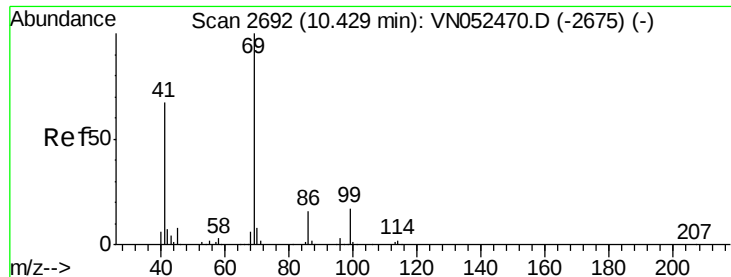
Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

39 28.2 36.0 54.0#





#56

Ethyl methacrylate

Concen: 2.804 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampled :

PB115231TB

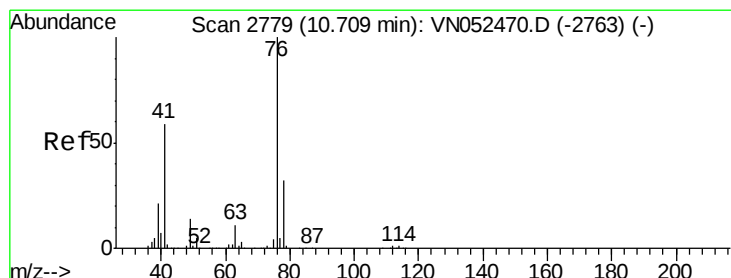
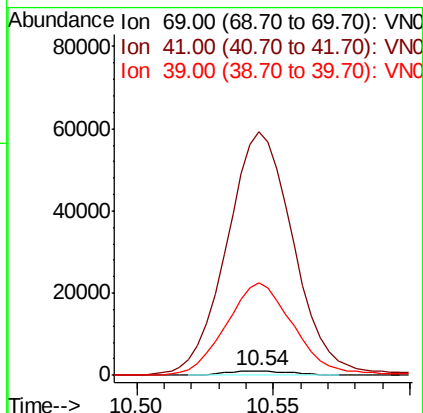
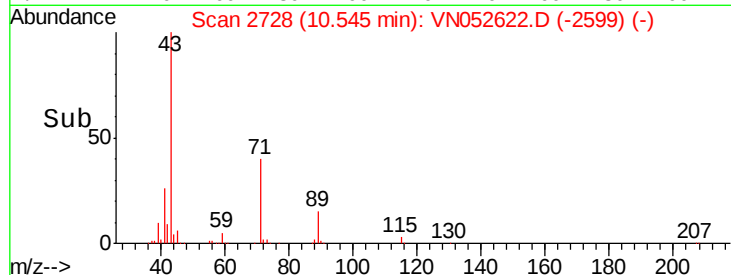
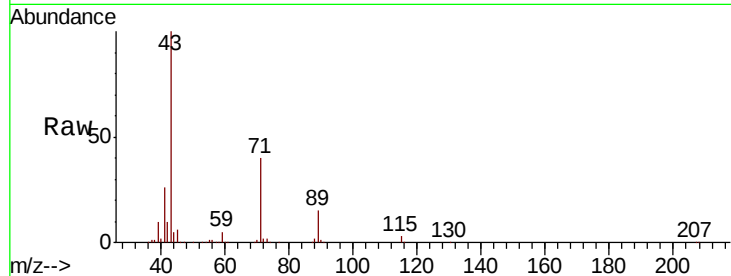
Tot Ion: 69 Resp: 1807

Ion Ratio Lower Upper

69 100

41 5599.6 52.6 79.0#

39 2151.0 25.9 38.9#



#57

1,3-Dichloropropane

Concen: 1.279 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN052622.D

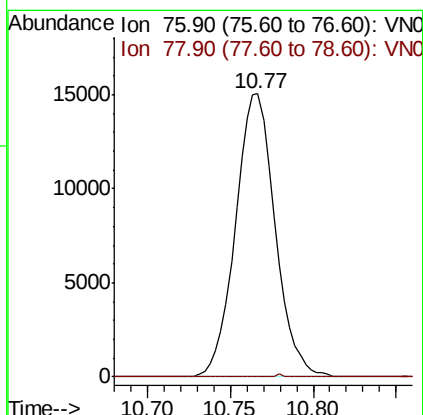
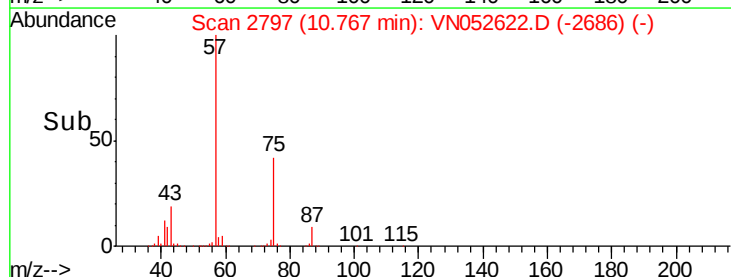
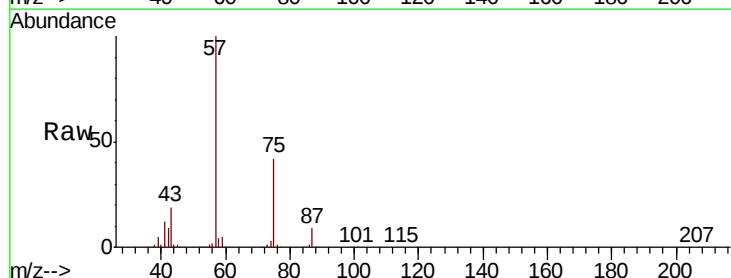
Acq: 3 Dec 2018 10:54

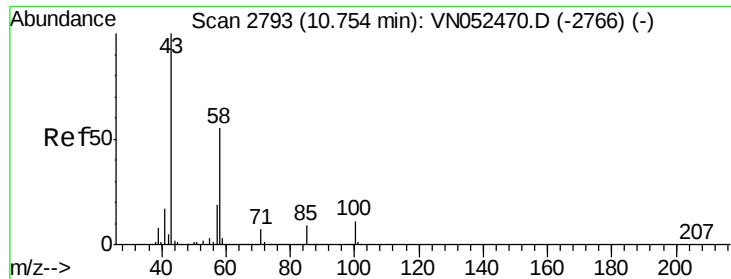
Tgt Ion: 76 Resp: 25058

Ion Ratio Lower Upper

76 100

78 0.1 25.6 38.4#

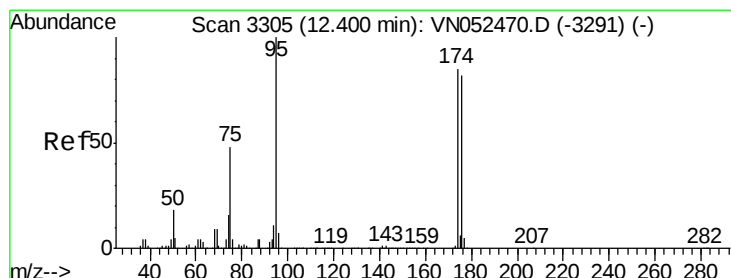
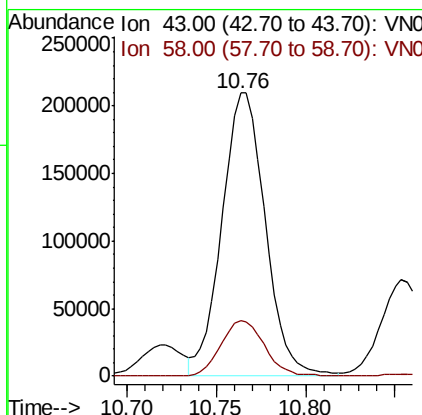
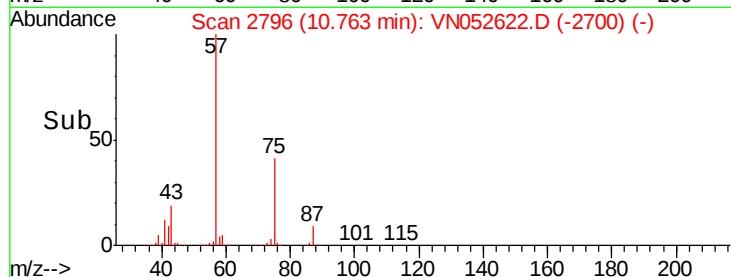
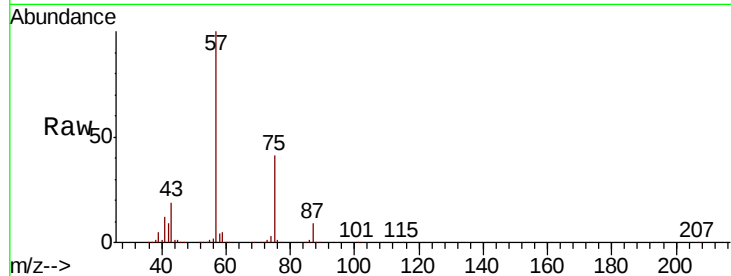




#59
2-Hexanone
Concen: 50.866 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052622.D
Acq: 3 Dec 2018 10:54

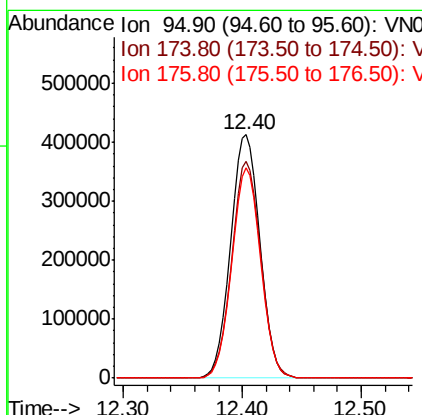
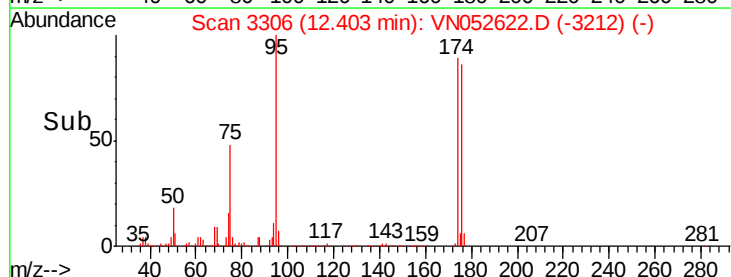
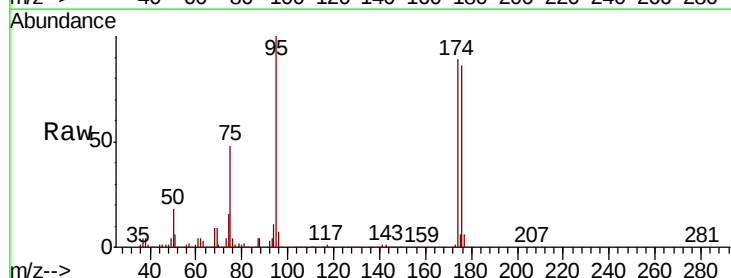
Instrument :
MSVOA_N
ClientSampleId :
PB115231TB

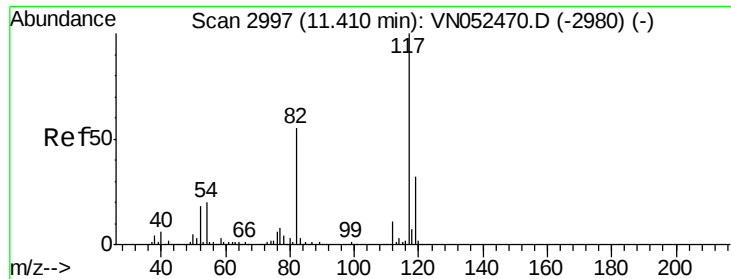
Tot Ion: 43 Resp: 352325
Ion Ratio Lower Upper
43 100
58 20.0 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052622.D
Acq: 3 Dec 2018 10:54

Tgt Ion: 95 Resp: 703866
Ion Ratio Lower Upper
95 100
174 88.3 0.0 173.0
176 85.0 0.0 166.2

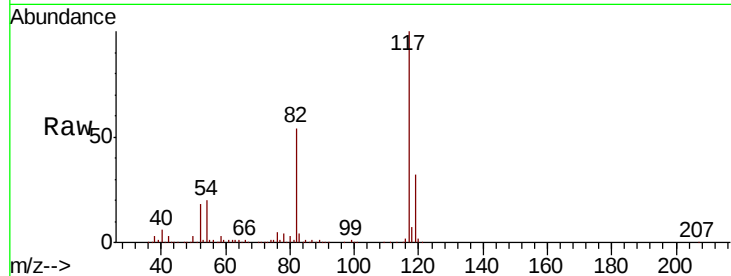




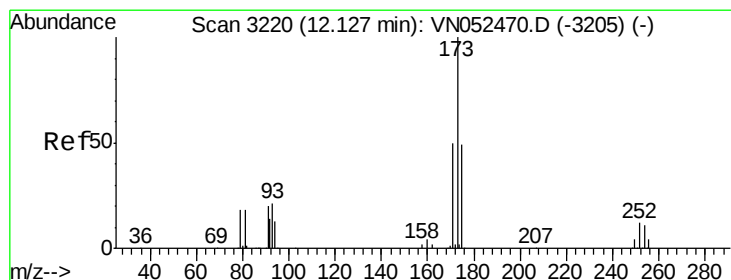
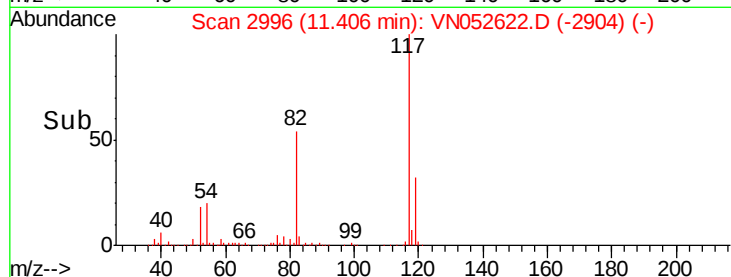
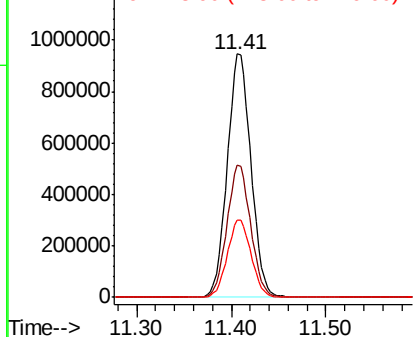
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052622.D
Acq: 3 Dec 2018 10:54

Instrument :
MSVOA_N
ClientSampleId :
PB115231TB

Tot Ion:117 Resp: 1642744
Ion Ratio Lower Upper
117 100
82 54.3 43.6 65.4
119 32.0 25.4 38.2

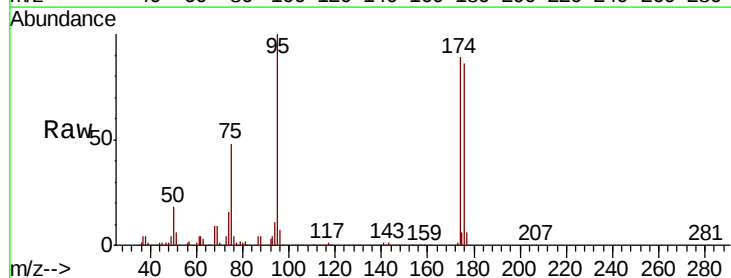


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

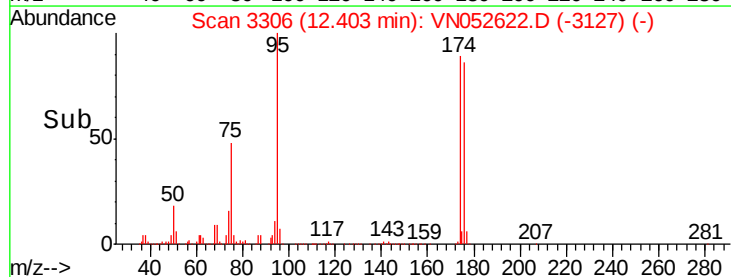
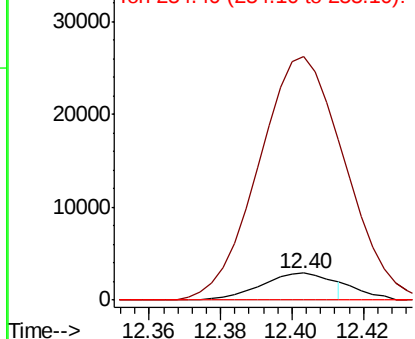


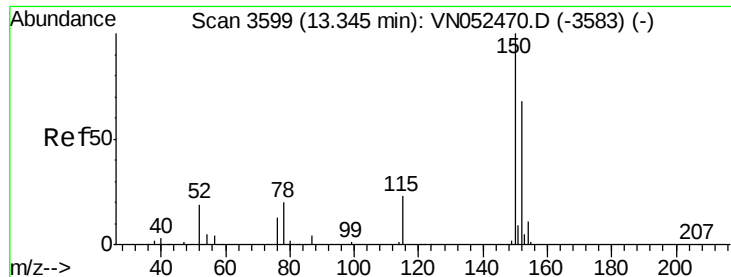
#71
Bromoform
Concen: 0.518 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052622.D
Acq: 3 Dec 2018 10:54

Tgt Ion:173 Resp: 4039
Ion Ratio Lower Upper
173 100
175 922.5 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: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

PB115231TB

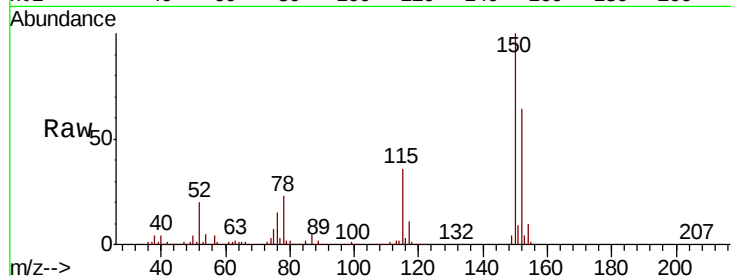
Tot Ion:152 Resp: 590911

Ion Ratio Lower Upper

152 100

115 56.0 28.4 85.2

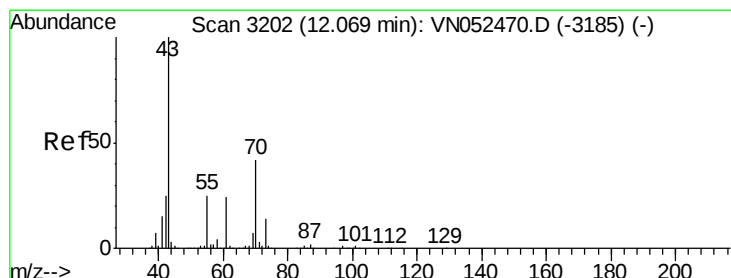
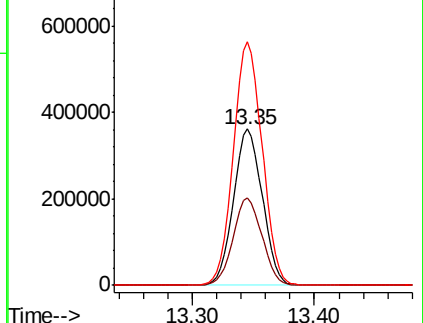
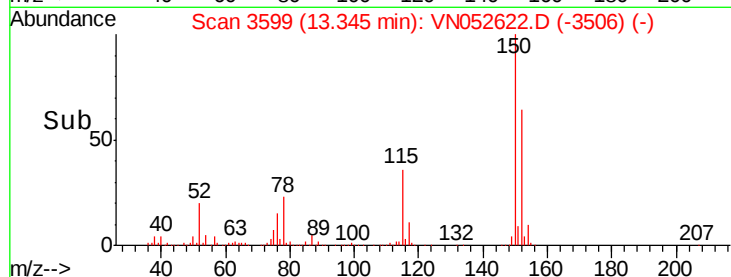
150 156.3 0.0 346.0



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: 3.442 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Tgt Ion: 43 Resp: 40309

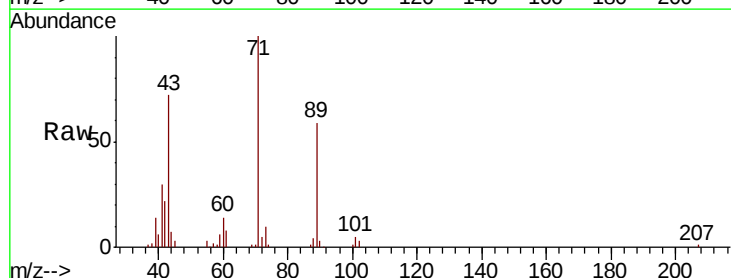
Ion Ratio Lower Upper

43 100

70 1.4 33.8 50.8#

55 4.4 20.0 30.0#

61 10.6 19.7 29.5#

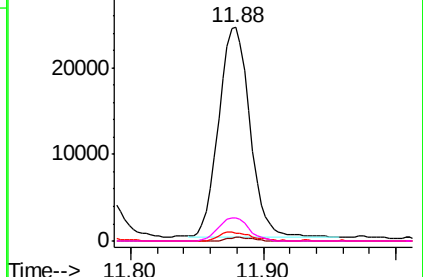
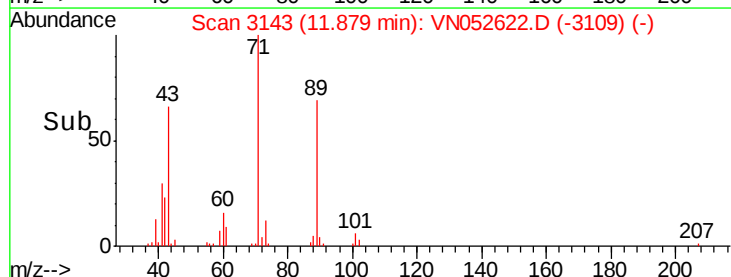


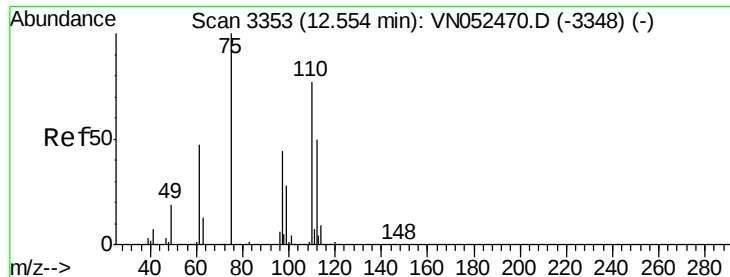
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 37.013 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

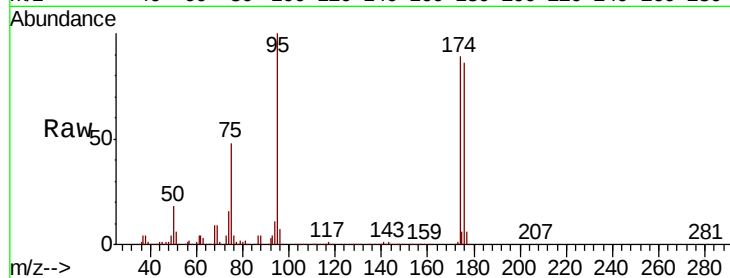
PB115231TB

Tot Ion: 75 Resp: 337269

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) (-)

12.40

200000

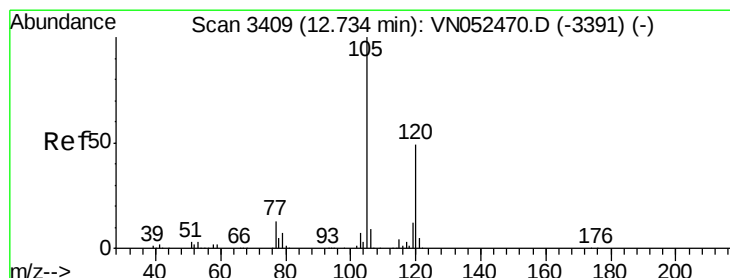
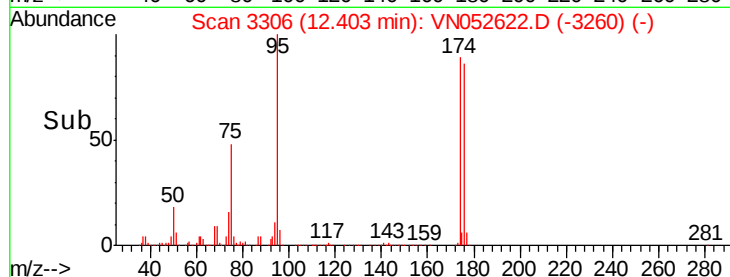
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.771 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052622.D

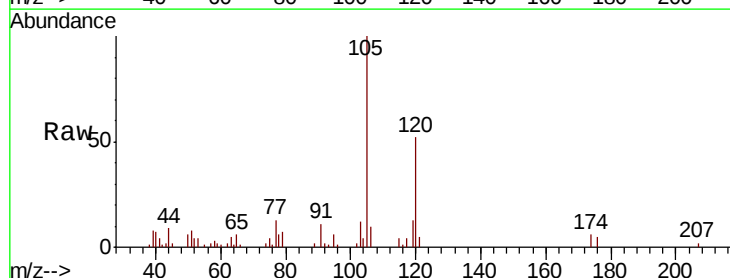
Acq: 3 Dec 2018 10:54

Tgt Ion: 105 Resp: 28499

Ion Ratio Lower Upper

105 100

120 50.0 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) (-)

12.73

20000

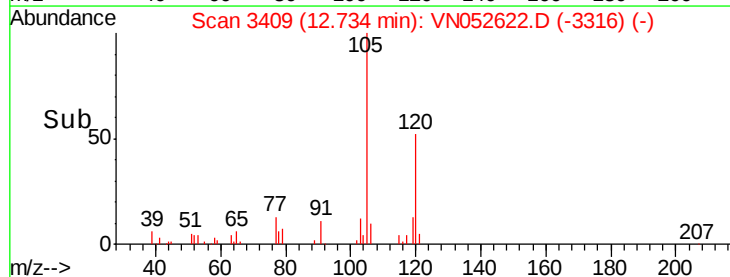
15000

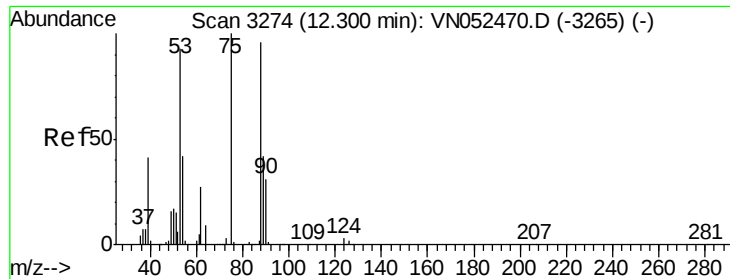
10000

5000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 123.606 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampled :

PB115231TB

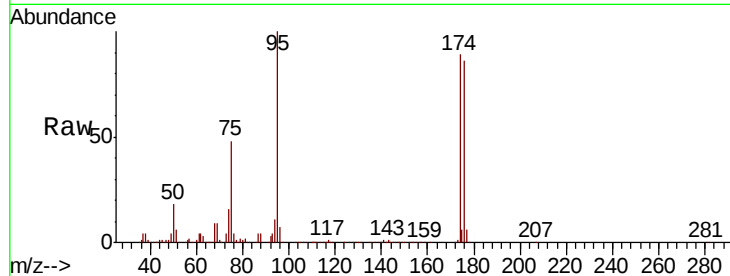
Tot Ion: 75 Resp: 337269

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

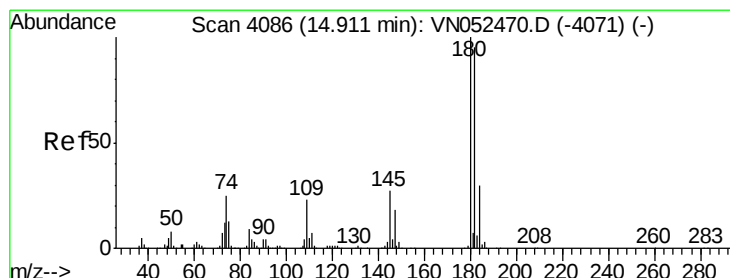
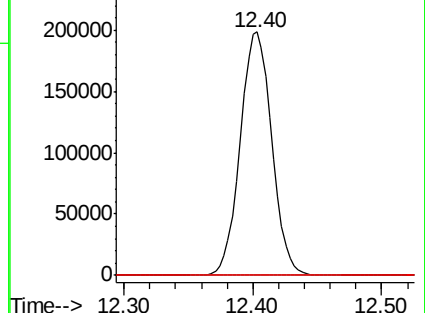
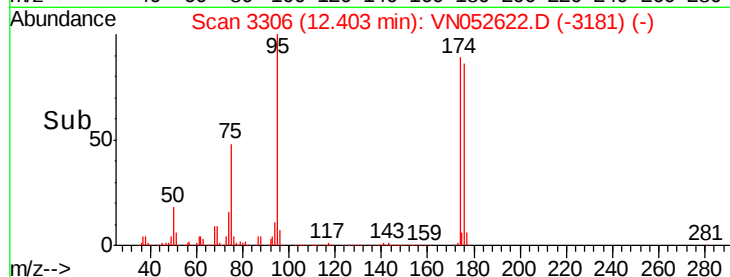
89 0.0 35.4 53.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 2.872 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

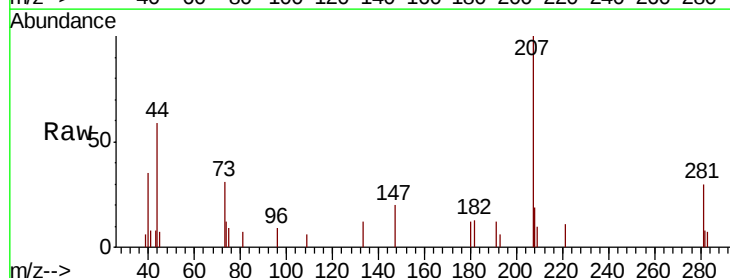
Tgt Ion:180 Resp: 472

Ion Ratio Lower Upper

180 100

182 116.7 47.8 143.4

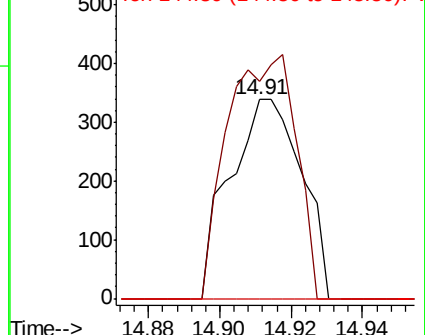
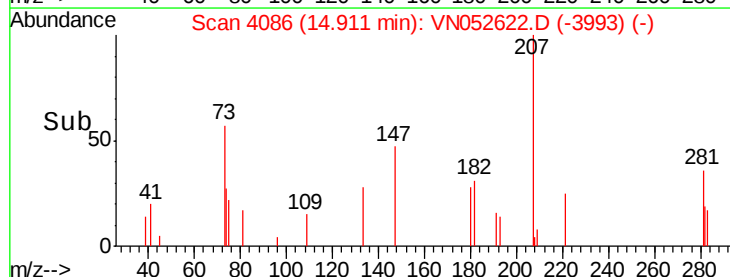
145 0.0 14.1 42.3#

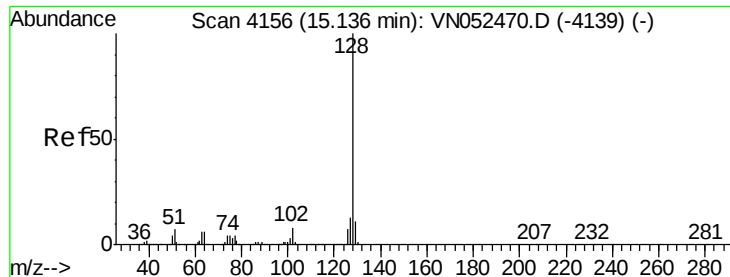


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.506 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

Instrument :

MSVOA_N

ClientSampleId :

PB115231TB

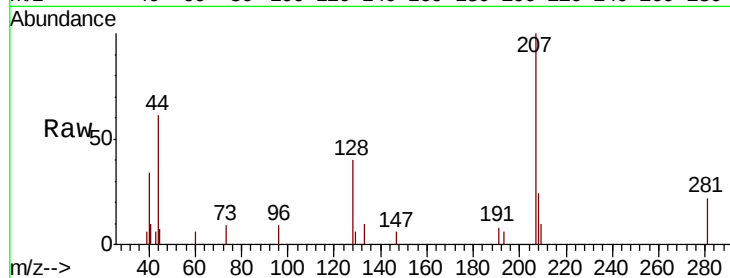
Tot Ion:128 Resp: 1843

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

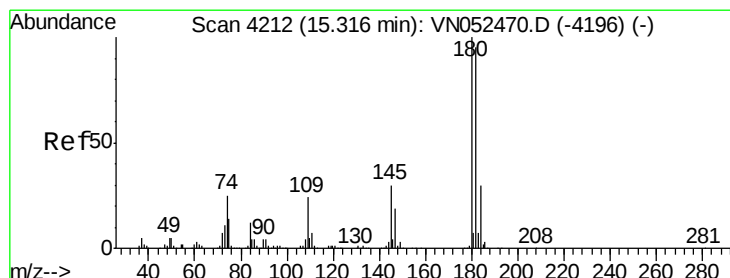
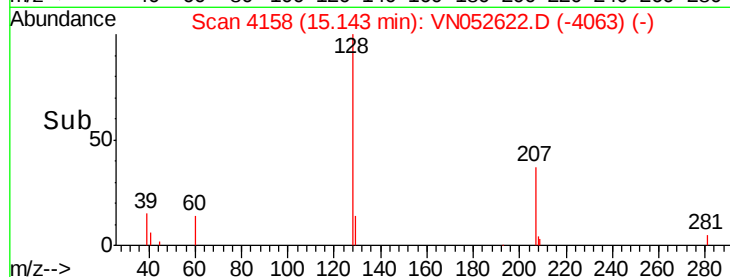
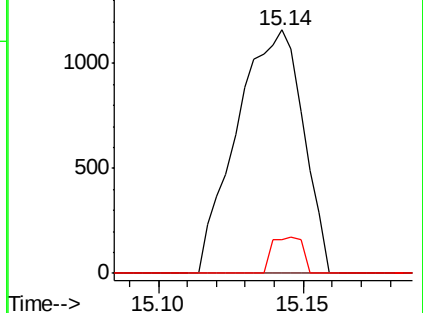
129 6.9 8.7 13.1#



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: 2.778 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.01 min

Lab File: VN052622.D

Acq: 3 Dec 2018 10:54

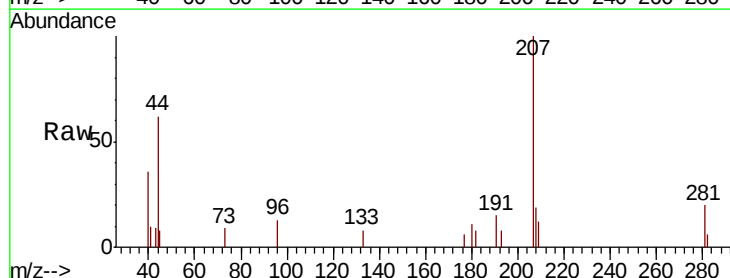
Tgt Ion:180 Resp: 519

Ion Ratio Lower Upper

180 100

182 118.5 47.8 143.3

145 19.8 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

