

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052157.D
 Acq On : 5 Nov 2018 19:53
 Operator : MD\SY
 Sample : J5812-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP1-B

Quant Time: Nov 06 05:16:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	346524	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	614214	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	594802	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	240762	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	262242	63.82	ug/l	0.00
Spiked Amount			Recovery	=	127.64%	
35) Dibromofluoromethane	7.59	113	232357	60.93	ug/l	0.00
Spiked Amount			Recovery	=	121.86%	
50) Toluene-d8	10.09	98	901288	61.13	ug/l	0.00
Spiked Amount			Recovery	=	122.26%	
62) 4-Bromofluorobenzene	12.40	95	298785	61.74	ug/l	0.00
Spiked Amount			Recovery	=	123.48%	

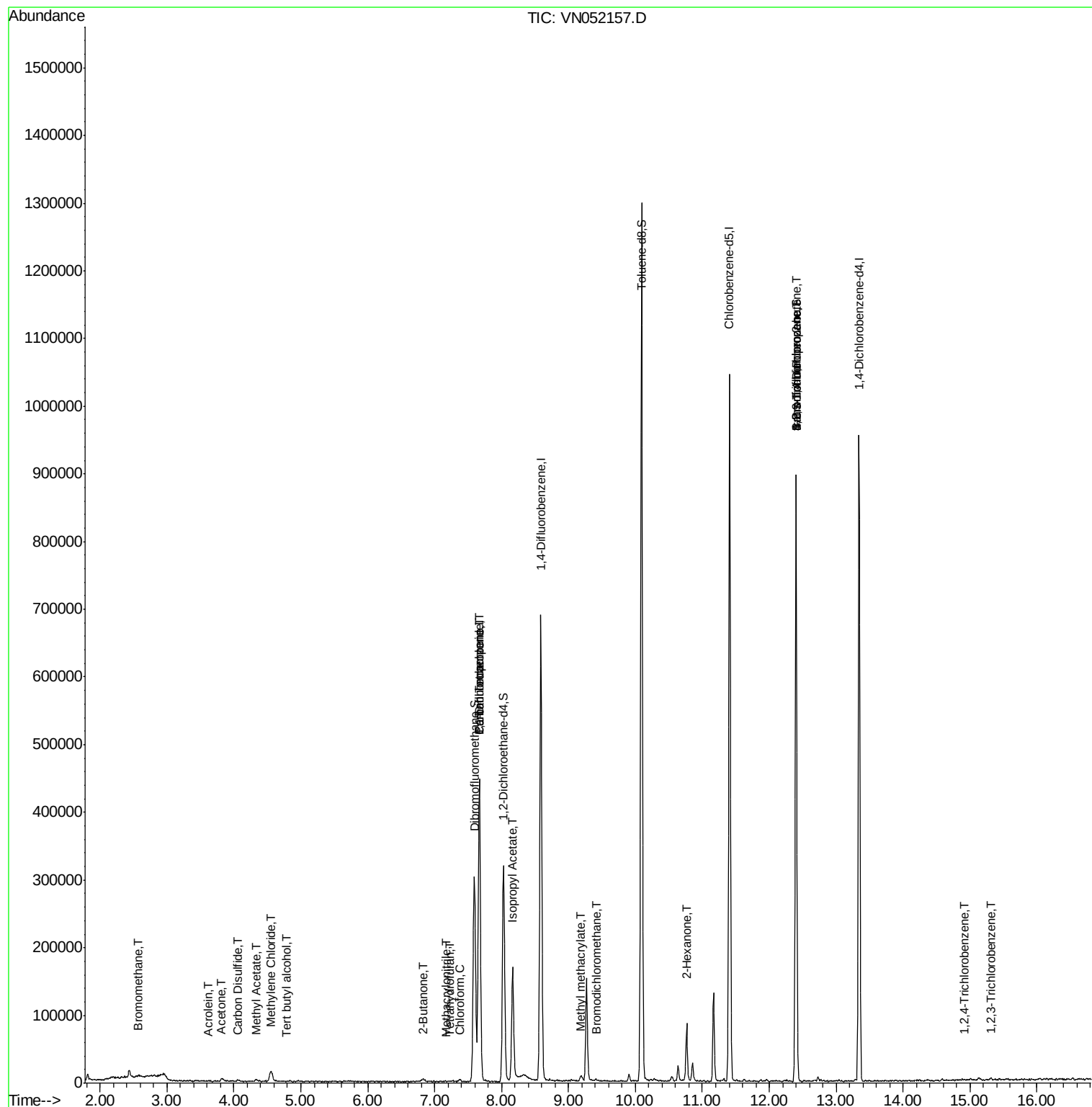
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	616	0.211	ug/l #	60
11) Tert butyl alcohol	4.78	59	153	0.857	ug/l #	79
13) Acrolein	3.62	56	98	32.471	ug/l #	9
16) Acetone	3.82	43	5801	6.231	ug/l #	86
17) Carbon Disulfide	4.05	76	2762	0.303	ug/l #	74
18) Methyl Acetate	4.33	43	3031	1.025	ug/l #	90
20) Methylene Chloride	4.56	84	10735	2.775	ug/l #	82
25) 2-Butanone	6.83	43	1084	0.751	ug/l #	48
29) Tetrahydrofuran	7.22	42	472	0.528	ug/l #	36
30) Chloroform	7.38	83	2577	0.389	ug/l #	77
31) Cyclohexane	7.66	56	9134	Below Cal	#	47
36) 1,1-Dichloropropene	7.67	75	28996	5.336	ug/l #	50
38) Carbon Tetrachloride	7.66	117	34952	6.434	ug/l #	17
41) Methacrylonitrile	7.17	41	137	1.465	ug/l #	11
43) Isopropyl Acetate	8.17	43	202353	32.639	ug/l #	88
47) Bromodichloromethane	9.40	83	1078	0.205	ug/l #	70
48) Methyl methacrylate	9.18	41	5004	1.677	ug/l #	15
59) 2-Hexanone	10.77	43	12436	5.454	ug/l #	60
71) Bromoform	12.40	173	3048	3.855	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	153672	40.558	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	153672	145.224	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.91	180	706	2.435	ug/l #	47
94) Hexachlorobutadiene	15.01	225	150	Below Cal	#	18
96) 1,2,3-Trichlorobenzene	15.31	180	656	1.947	ug/l	92

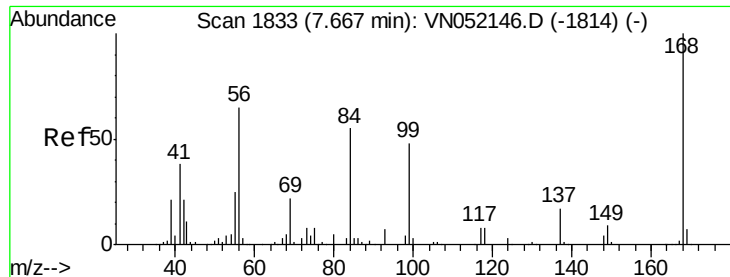
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 05 22:32:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Instrument :

MSVOA_N

ClientSampled :

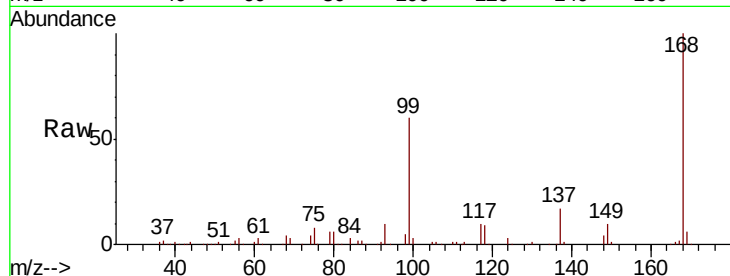
TP1-B

Tot Ion:168 Resp: 346524

Ion Ratio Lower Upper

168 100

99 59.9 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

150000

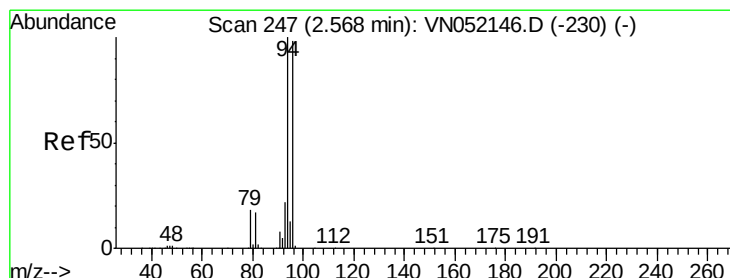
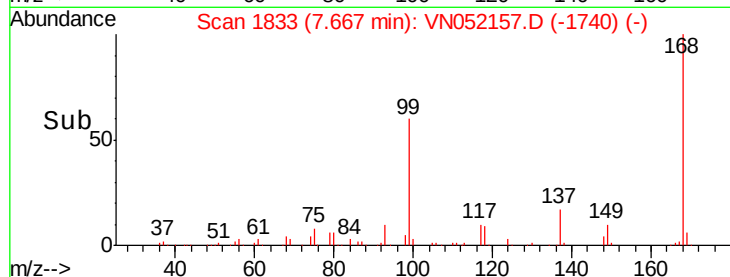
100000

50000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: 0.211 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN052157.D

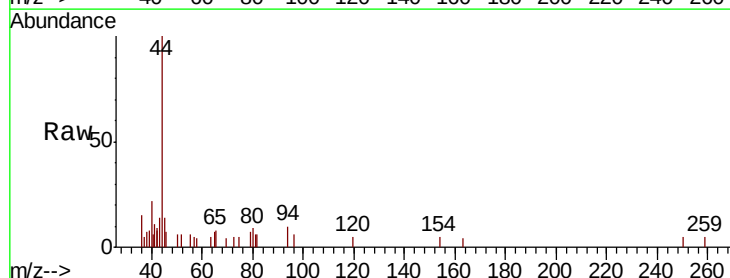
Acq: 5 Nov 2018 19:53

Tgt Ion: 94 Resp: 616

Ion Ratio Lower Upper

94 100

96 58.1 78.3 117.5#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

400

300

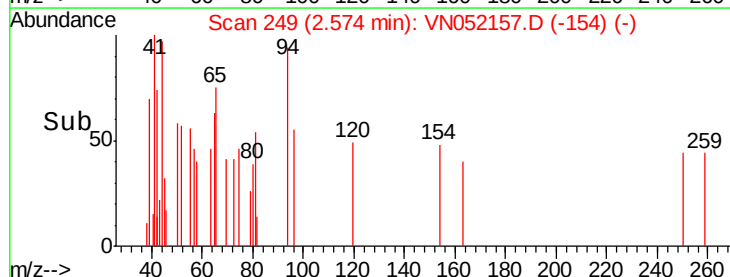
200

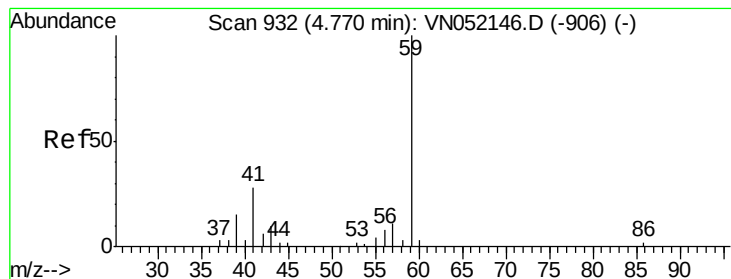
100

0

2.54 2.56 2.58 2.60

Time-->



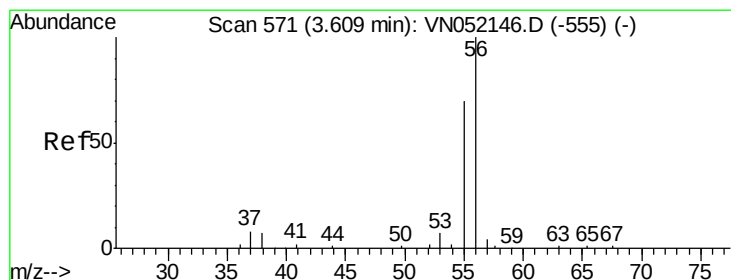
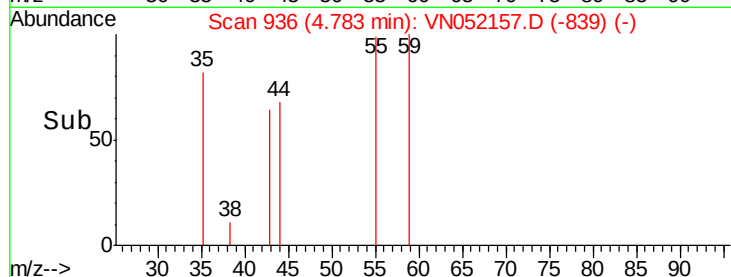
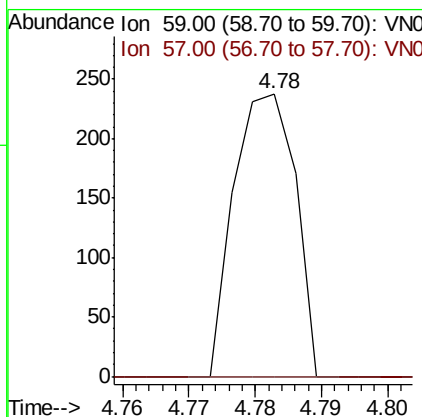
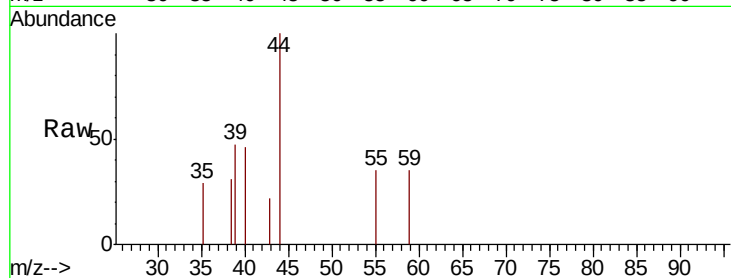


#11

Tert butyl alcohol
 Concen: 0.857 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VN052157.D
 Acq: 5 Nov 2018 19:53

Instrument :
 MSVOA_N
 ClientSampled :
 TP1-B

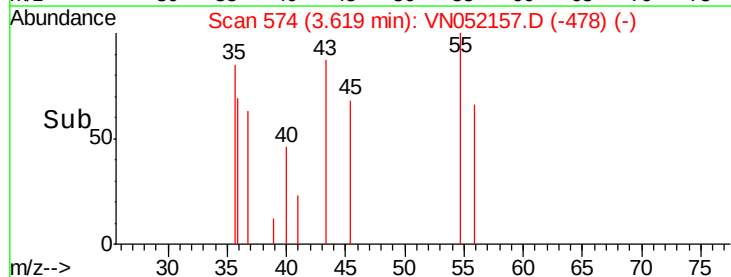
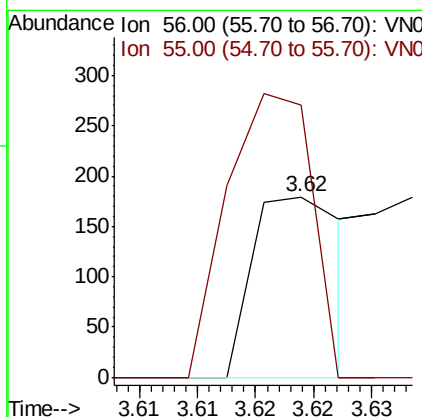
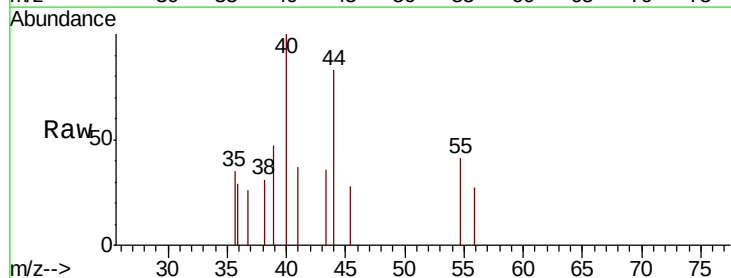
Tot Ion: 59 Resp: 153
 Ion Ratio Lower Upper
 59 100
 57 0.0 5.7 8.5#

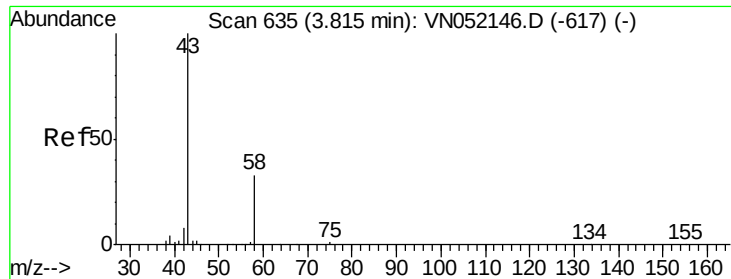


#13

Acrolein
 Concen: 32.471 ug/l
 RT: 3.62 min Scan# 574
 Delta R.T. 0.01 min
 Lab File: VN052157.D
 Acq: 5 Nov 2018 19:53

Tgt Ion: 56 Resp: 98
 Ion Ratio Lower Upper
 56 100
 55 145.9 56.6 84.8#





#16

Acetone

Concen: 6.231 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Instrument :

MSVOA_N

ClientSampled :

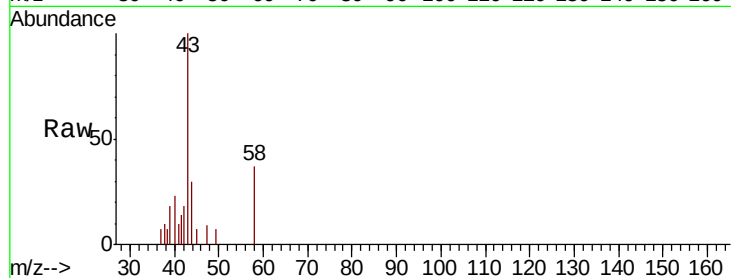
TP1-B

Tot Ion: 43 Resp: 5801

Ion Ratio Lower Upper

43 100

58 40.7 26.2 39.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2500

2000

1500

1000

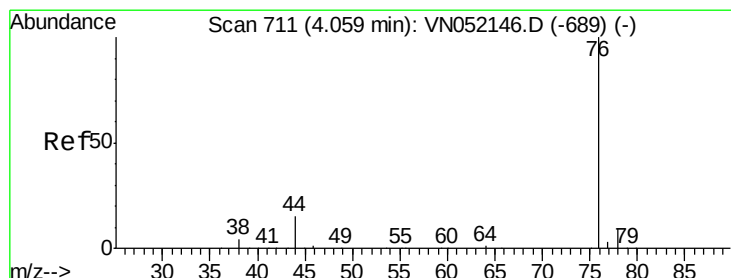
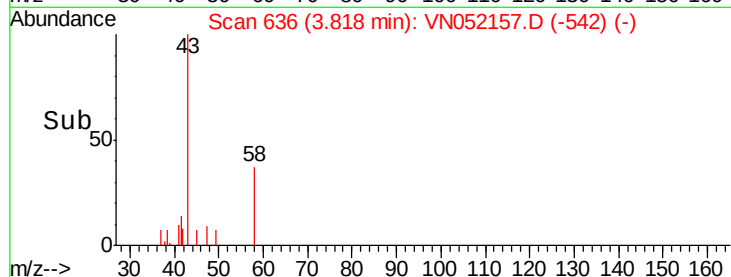
500

0

Time-->

3.75 3.80 3.85 3.90

3.82



#17

Carbon Disulfide

Concen: 0.303 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.01 min

Lab File: VN052157.D

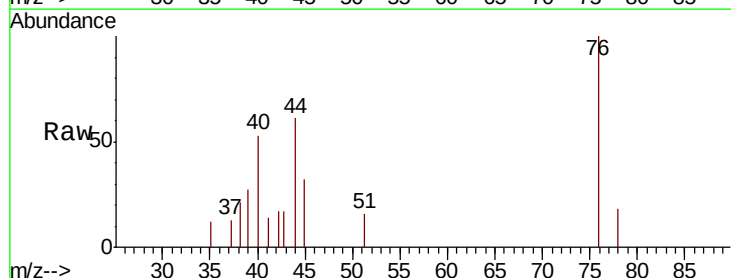
Acq: 5 Nov 2018 19:53

Tgt Ion: 76 Resp: 2762

Ion Ratio Lower Upper

76 100

78 18.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

1000

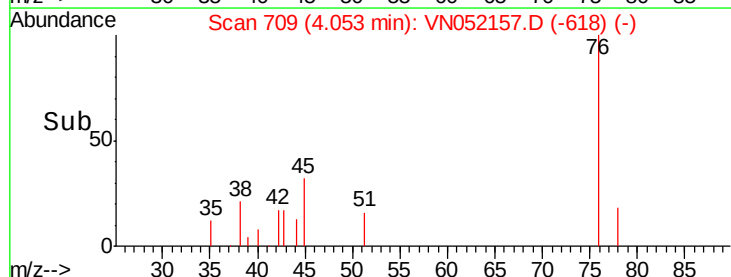
500

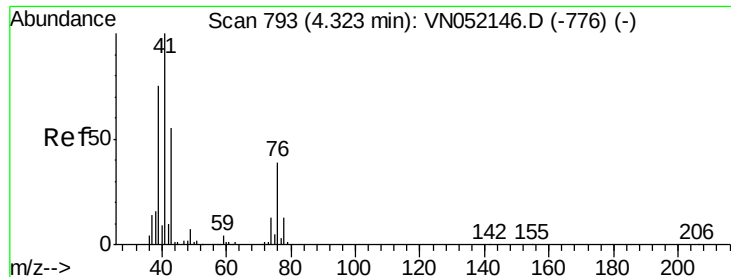
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Time-->

4.00 4.05 4.10

4.05

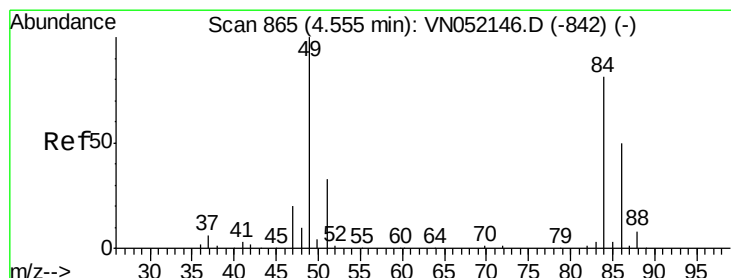
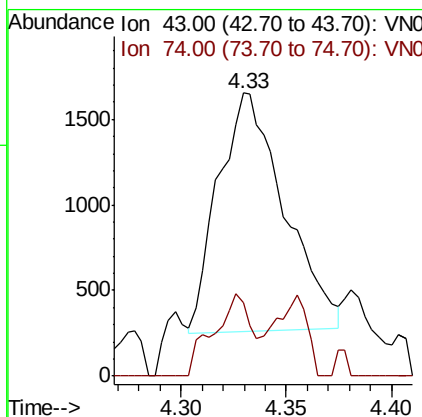
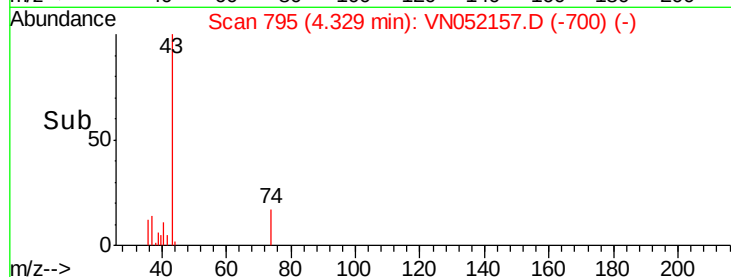
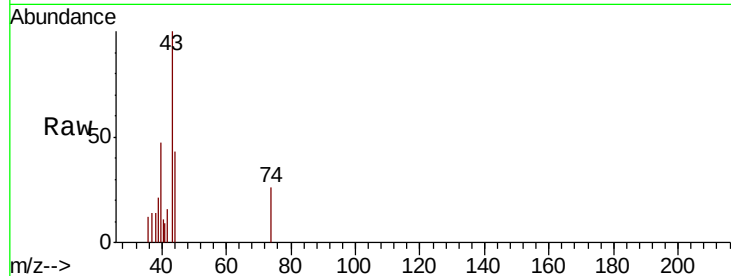




#18
Methyl Acetate
Concen: 1.025 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN052157.D
Acq: 5 Nov 2018 19:53

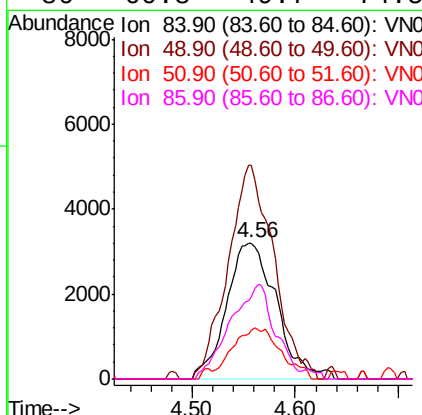
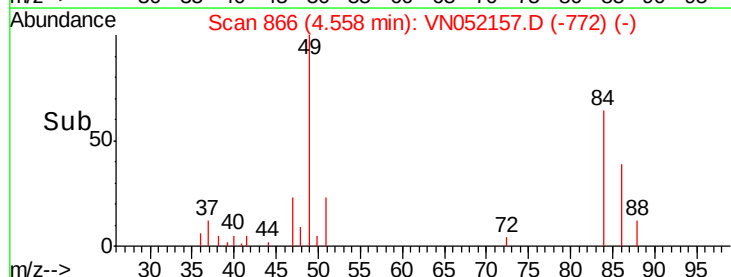
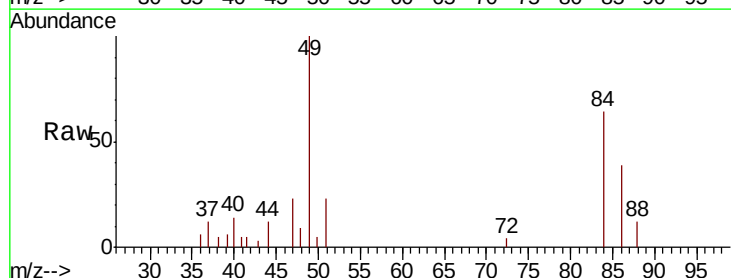
Instrument :
MSVOA_N
ClientSampleId :
TP1-B

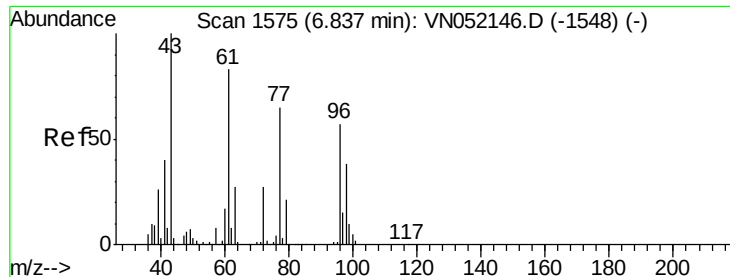
Tot Ion: 43 Resp: 3031
Ion Ratio Lower Upper
43 100
74 19.3 19.3 28.9#



#20
Methylene Chloride
Concen: 2.775 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052157.D
Acq: 5 Nov 2018 19:53

Tgt Ion: 84 Resp: 10735
Ion Ratio Lower Upper
84 100
49 157.2 98.4 147.6#
51 36.0 32.5 48.7
86 60.8 49.7 74.5





#25

2-Butanone

Concen: 0.751 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Instrument :

MSVOA_N

ClientSampled :

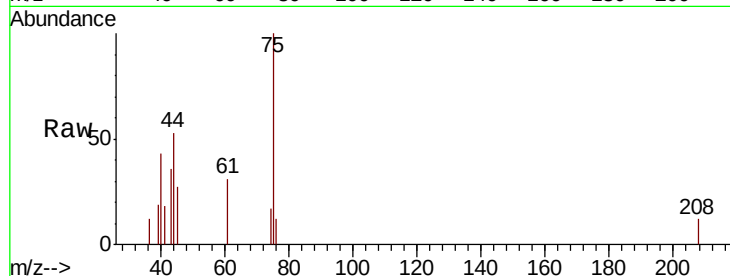
TP1-B

Tot Ion: 43 Resp: 1084

Ion Ratio Lower Upper

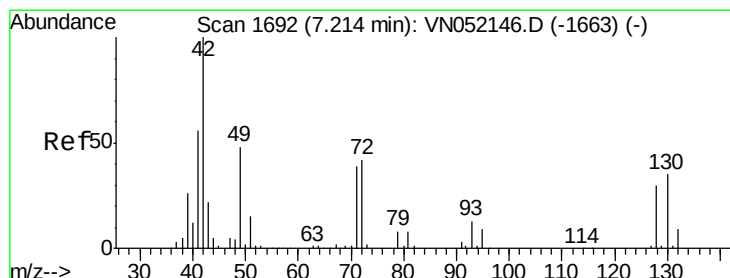
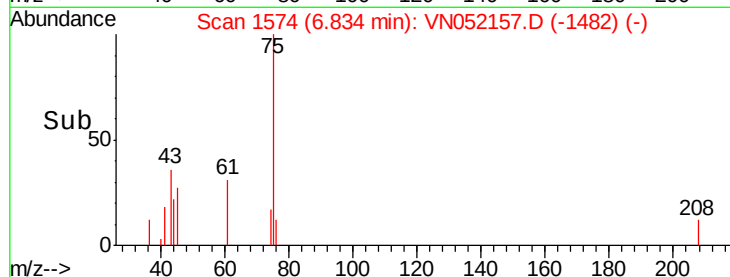
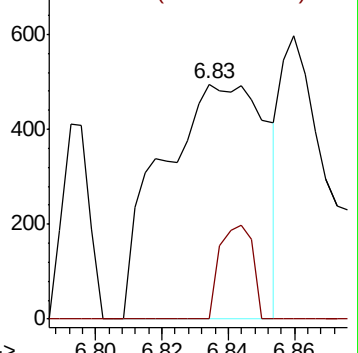
43 100

72 0.0 21.4 32.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.528 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

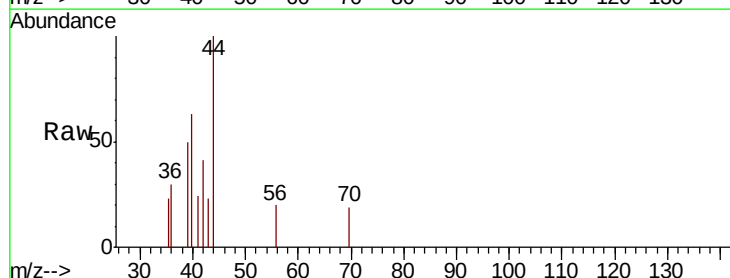
Tgt Ion: 42 Resp: 472

Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

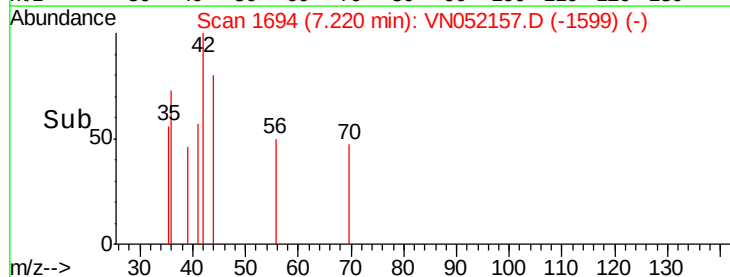
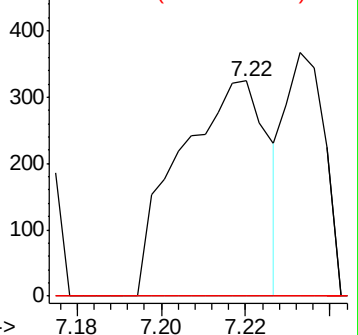
71 0.0 31.0 46.6#

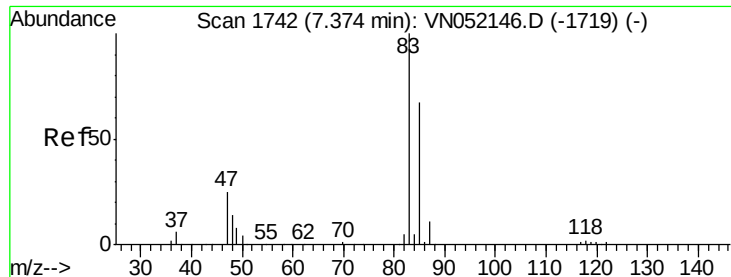


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

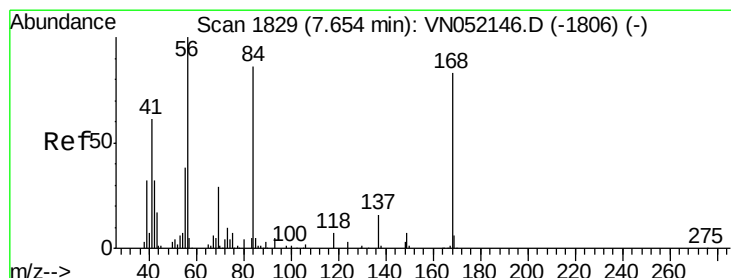
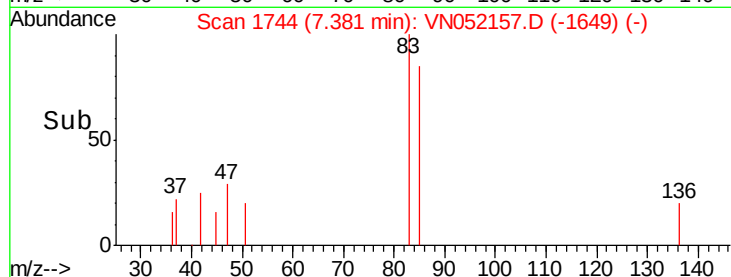
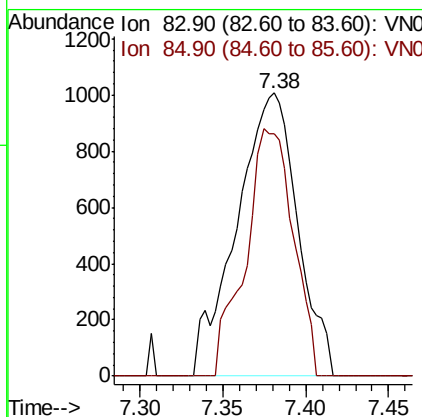
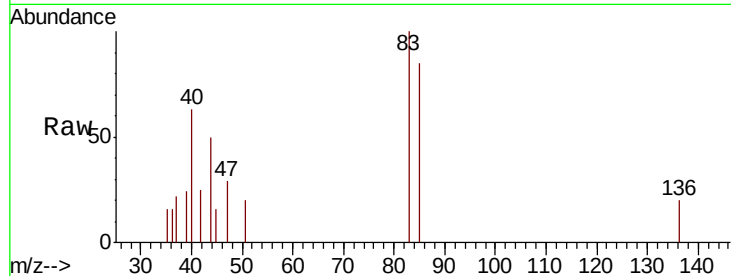




#30
Chloroform
Concen: 0.389 ug/l
RT: 7.38 min Scan# 1744
Delta R.T. 0.01 min
Lab File: VN052157.D
Acq: 5 Nov 2018 19:53

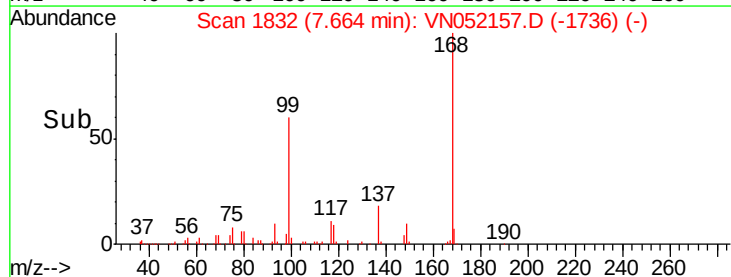
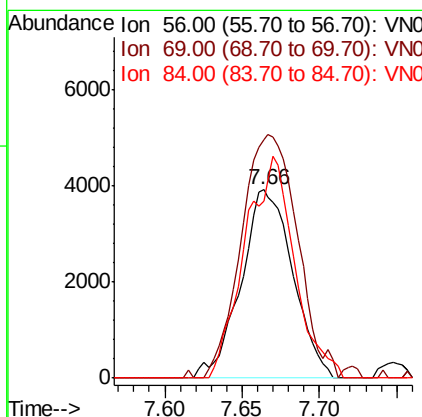
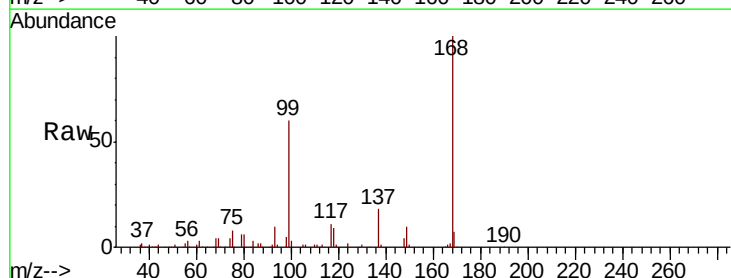
Instrument :
MSVOA_N
ClientSampled :
TP1-B

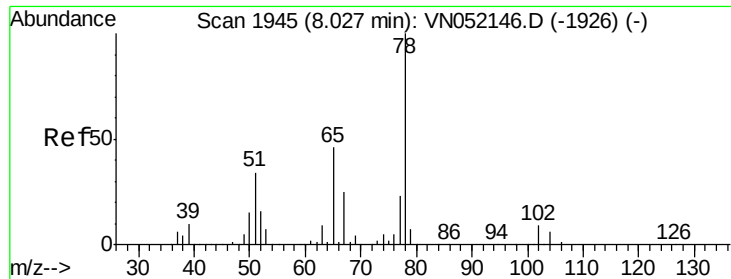
Tot Ion: 83 Resp: 2577
Ion Ratio Lower Upper
83 100
85 85.4 53.7 80.5#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052157.D
Acq: 5 Nov 2018 19:53

Tgt Ion: 56 Resp: 9134
Ion Ratio Lower Upper
56 100
69 126.6 23.5 35.3#
84 93.9 68.7 103.1

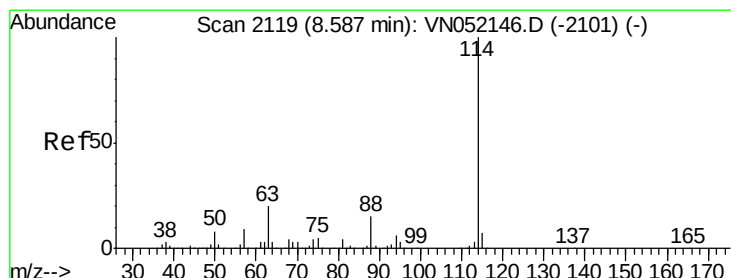
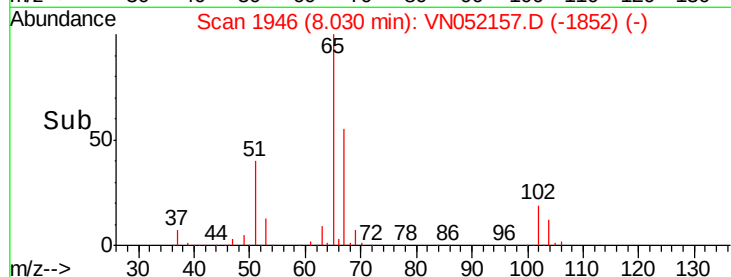
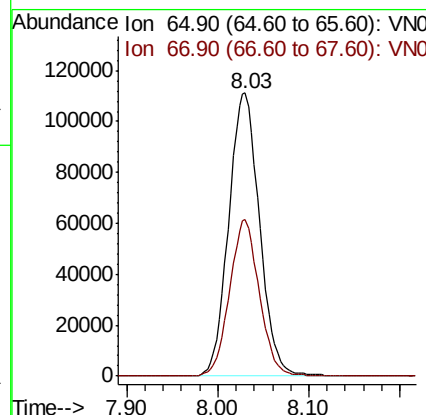
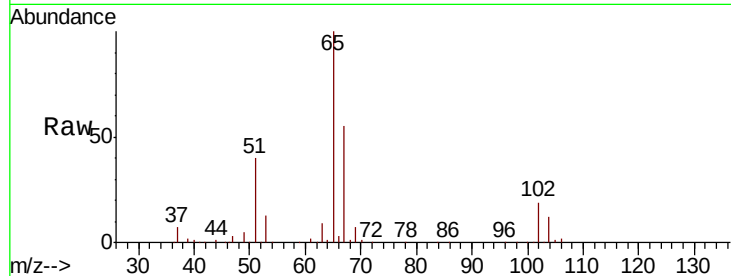




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052157.D
 Acq: 5 Nov 2018 19:53

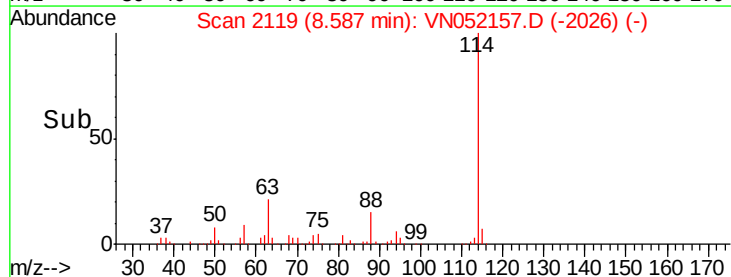
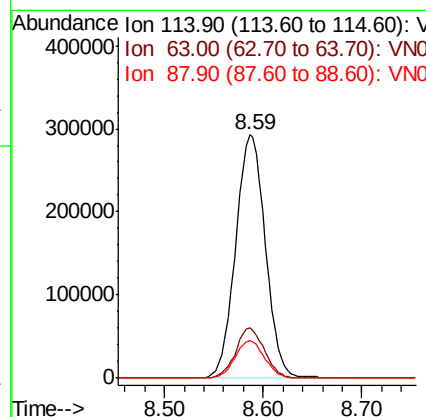
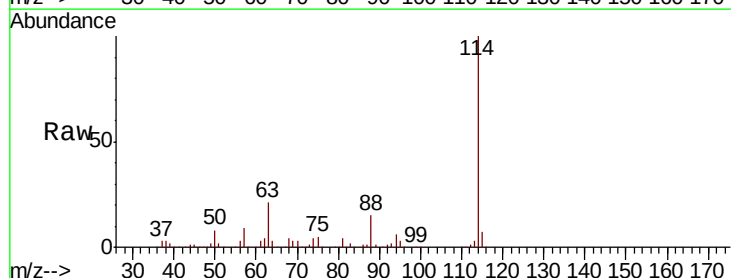
Instrument :
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 ClientSampleId :
 TP1-B

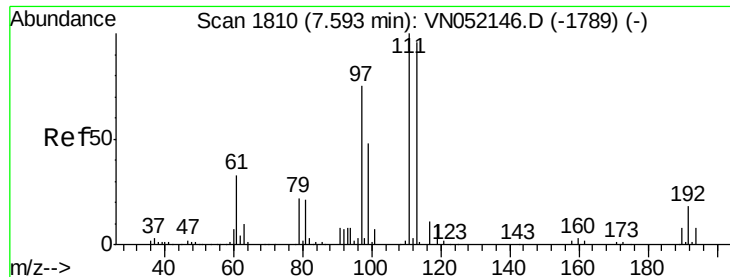
Tot Ion: 65 Resp: 262242
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052157.D
 Acq: 5 Nov 2018 19:53

Tgt Ion: 114 Resp: 614214
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.0
 88 15.5 0.0 31.0

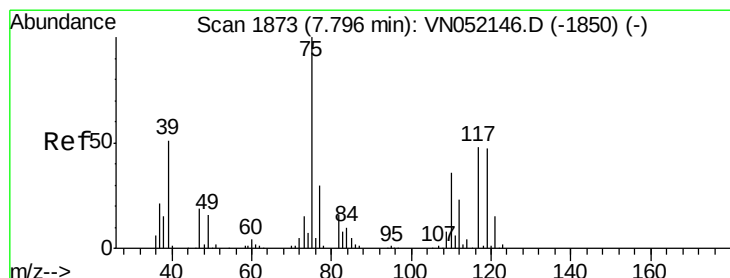
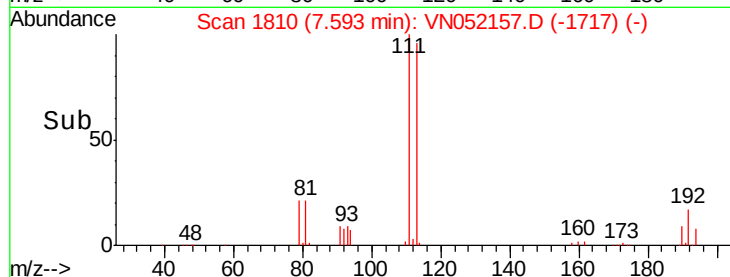
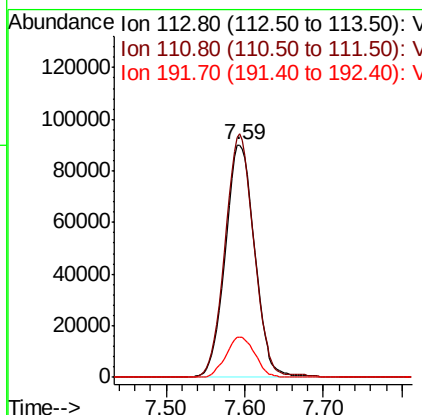
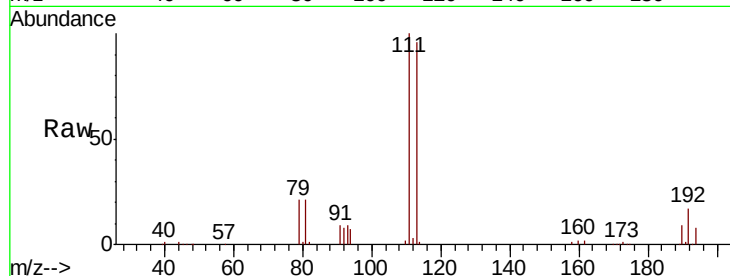




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052157.D
 Acq: 5 Nov 2018 19:53

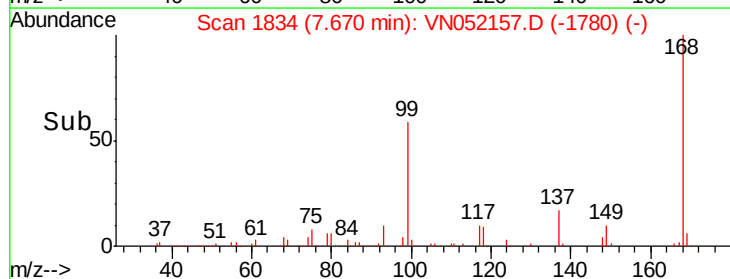
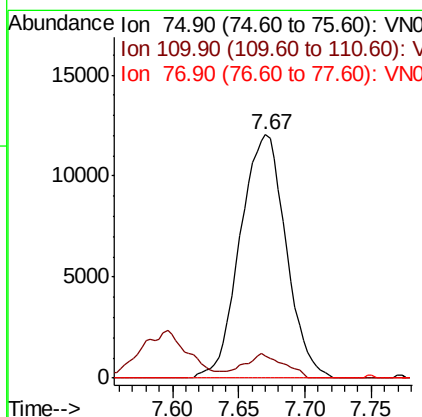
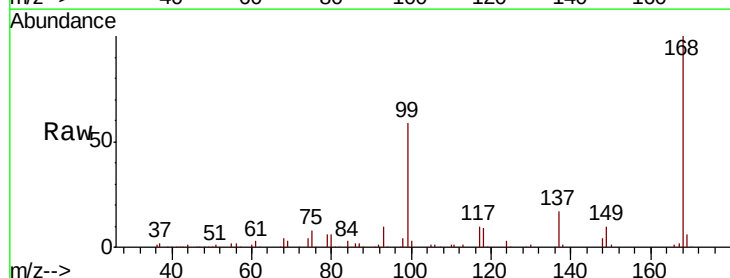
Instrument :
 MSVOA_N
 ClientSampleId :
 TP1-B

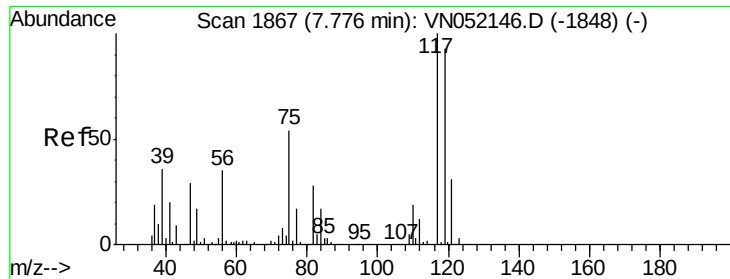
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.7	122.5
192	17.1	14.2	21.4



#36
 1,1-Dichloropropene
 Concen: 5.336 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN052157.D
 Acq: 5 Nov 2018 19:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.8	53.5#
77	0.0	24.0	36.0#





#38

Carbon Tetrachloride

Concen: 6.434 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

TP1-B

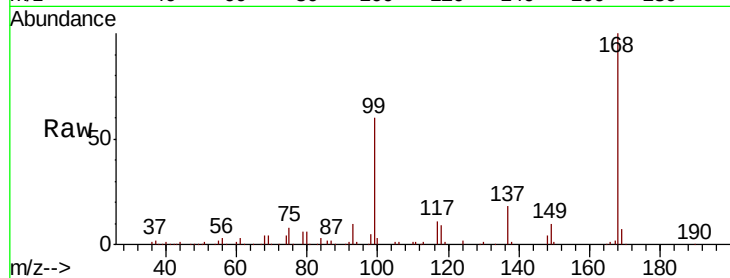
Tot Ion:117 Resp: 34952

Ion Ratio Lower Upper

117 100

119 4.7 74.7 112.1#

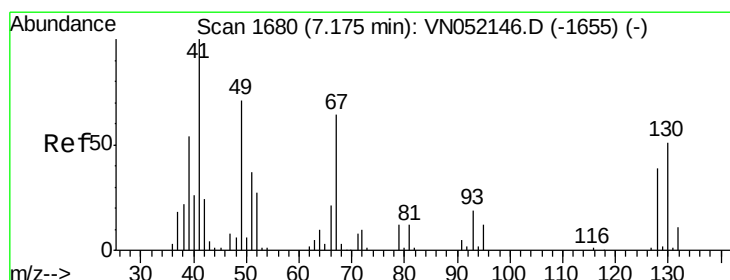
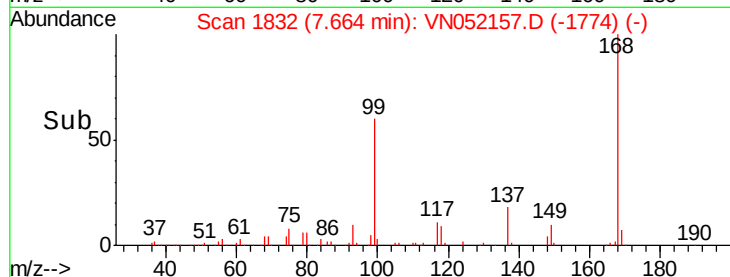
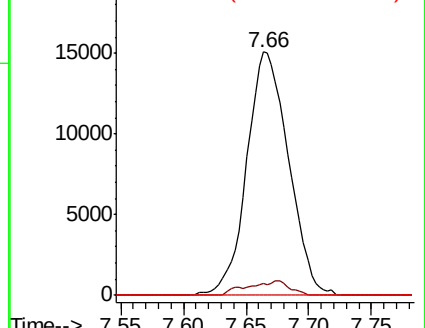
121 0.0 24.5 36.7#



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



#41

Methacrylonitrile

Concen: 1.465 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Tgt Ion: 41 Resp: 137

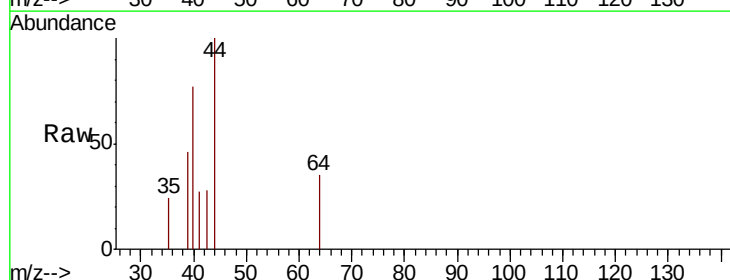
Ion Ratio Lower Upper

41 100

39 140.9 49.6 74.4#

67 0.0 65.4 98.2#

52 0.0 27.2 40.8#

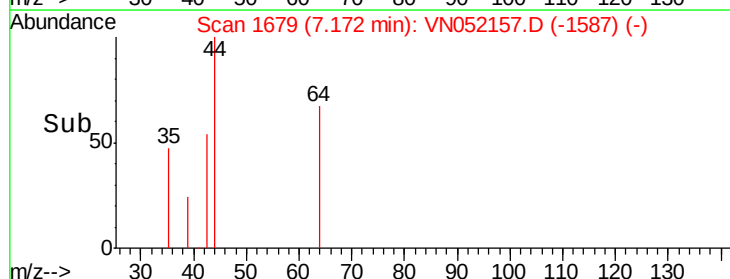
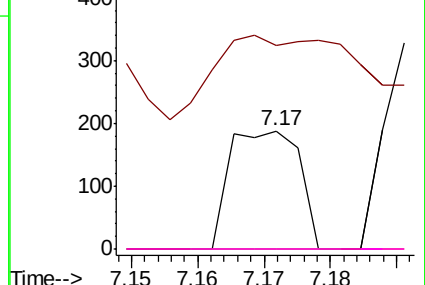


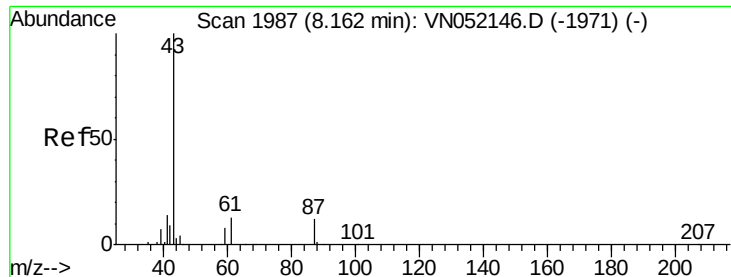
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 32.639 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Instrument :

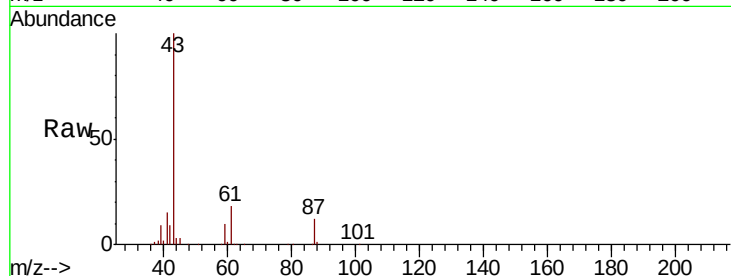
MSVOA_N

ClientSampled :

TP1-B

Tot Ion: 43 Resp: 202353

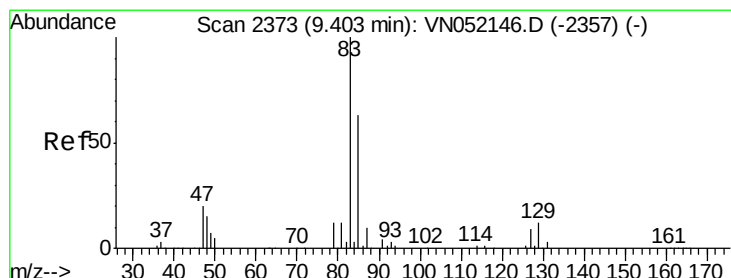
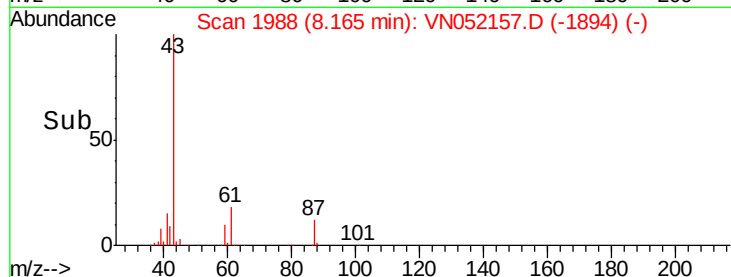
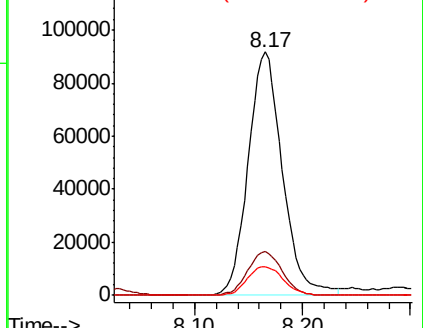
Ion	Ratio	Lower	Upper
43	100		
61	18.1	21.5	32.3#
87	12.5	10.2	15.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#47

Bromodichloromethane

Concen: 0.205 ug/l

RT: 9.40 min Scan# 2372

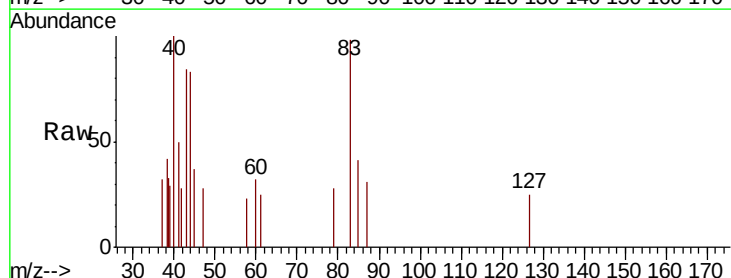
Delta R.T. -0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Tgt Ion: 83 Resp: 1078

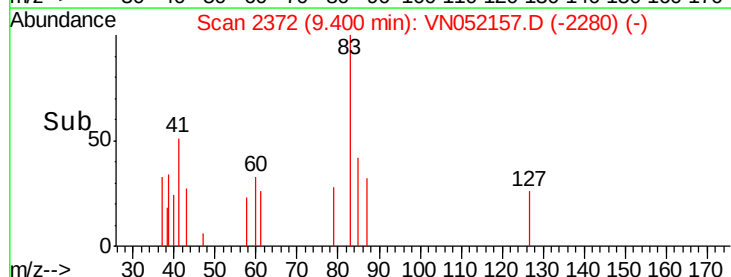
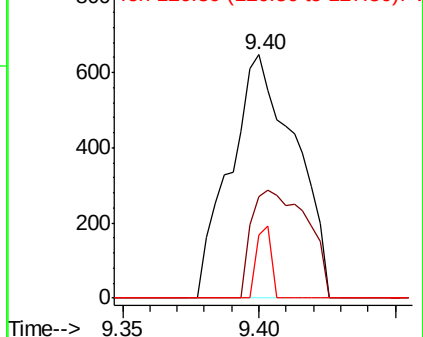
Ion	Ratio	Lower	Upper
83	100		
85	41.8	50.5	75.7#
127	25.9	7.2	10.8#

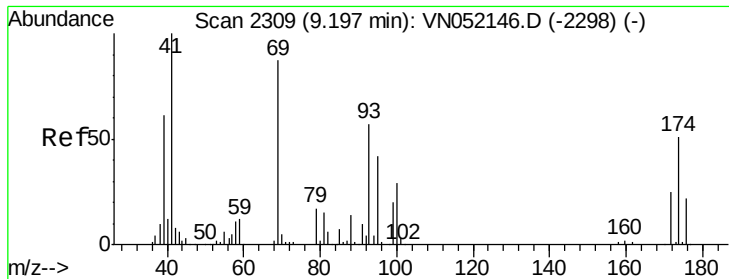


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

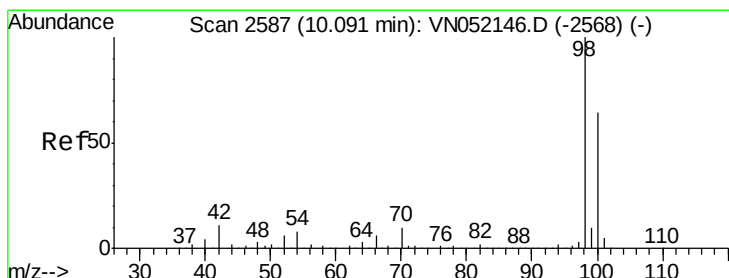
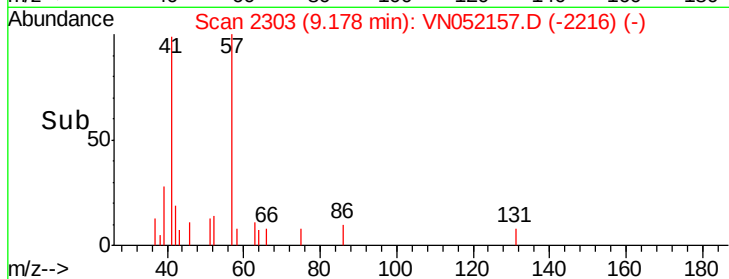
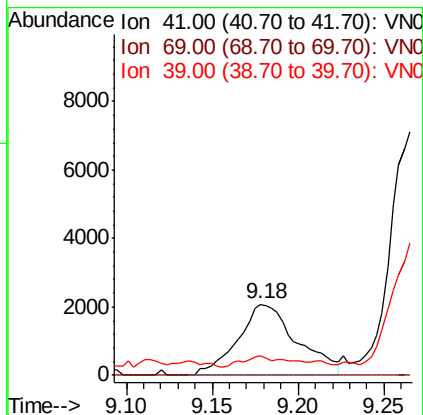
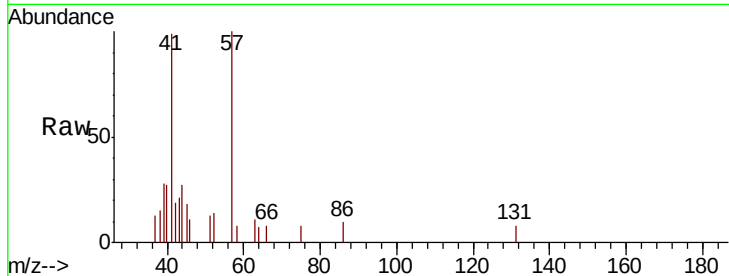




#48
Methvl methacrylate
Concen: 1.677 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052157.D
Acq: 5 Nov 2018 19:53

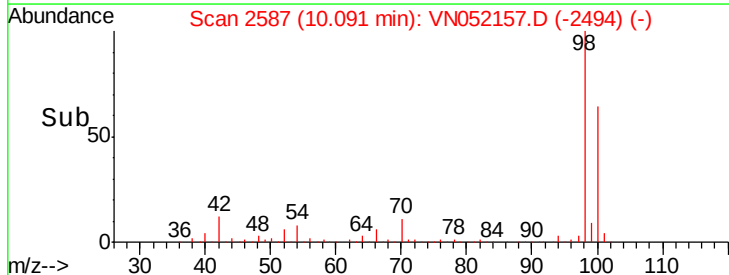
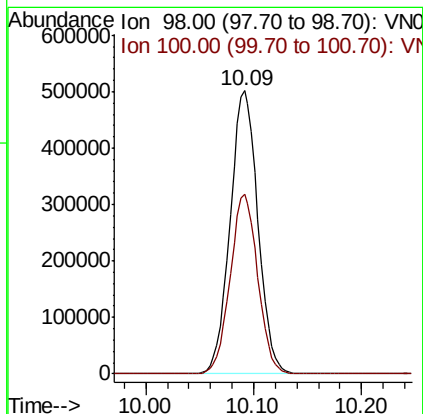
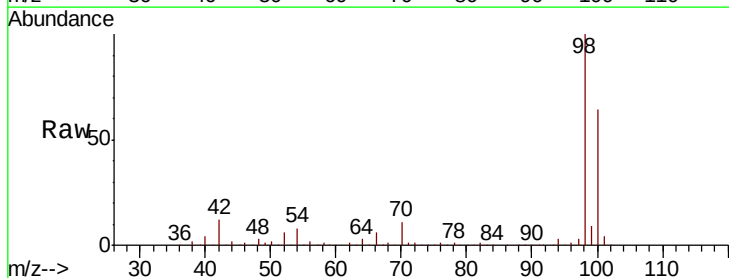
Instrument :
MSVOA_N
ClientSampleId :
TP1-B

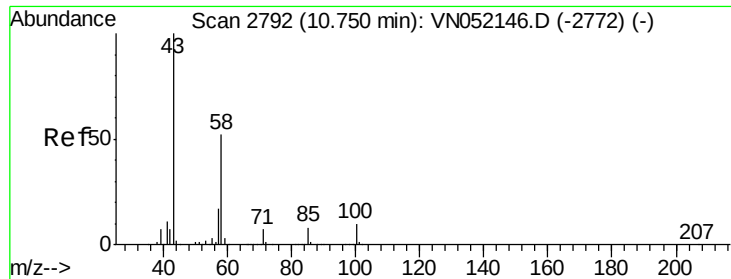
Tot Ion: 41 Resp: 5004
Ion Ratio Lower Upper
41 100
69 0.0 69.7 104.5#
39 7.1 50.6 76.0#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052157.D
Acq: 5 Nov 2018 19:53

Tgt Ion: 98 Resp: 901288
Ion Ratio Lower Upper
98 100
100 63.0 50.5 75.7

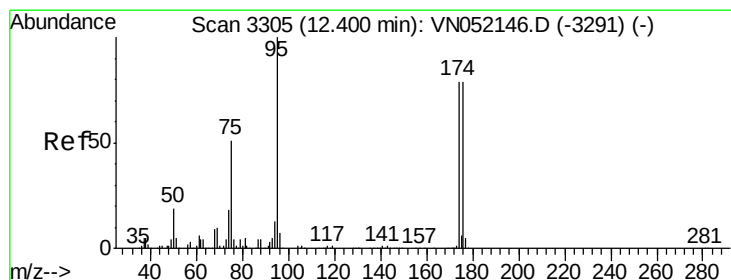
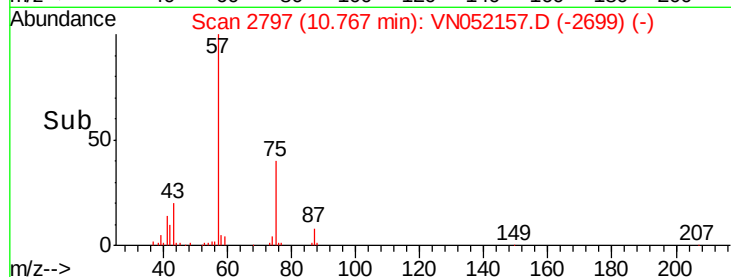
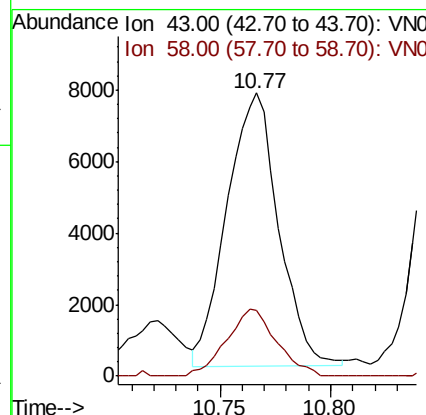
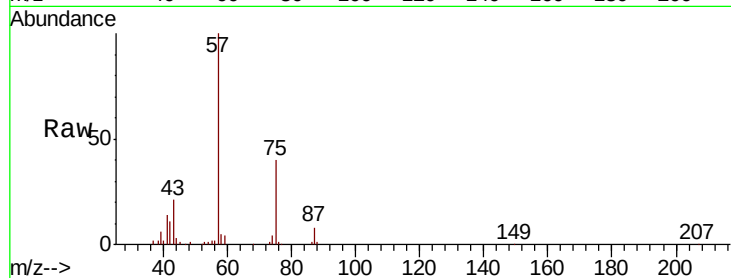




#59
 2-Hexanone
 Concen: 5.454 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.02 min
 Lab File: VN052157.D
 Acq: 5 Nov 2018 19:53

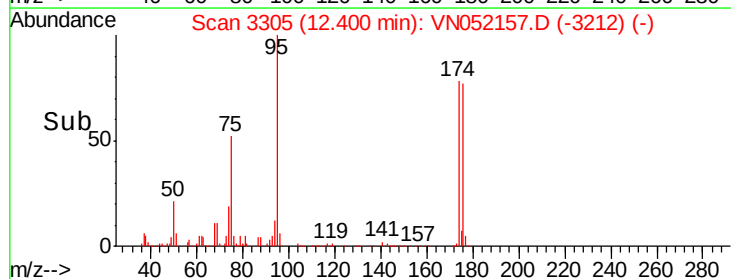
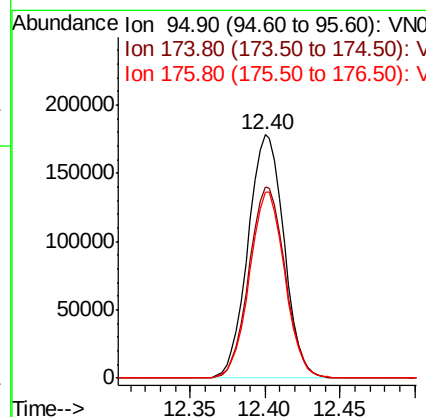
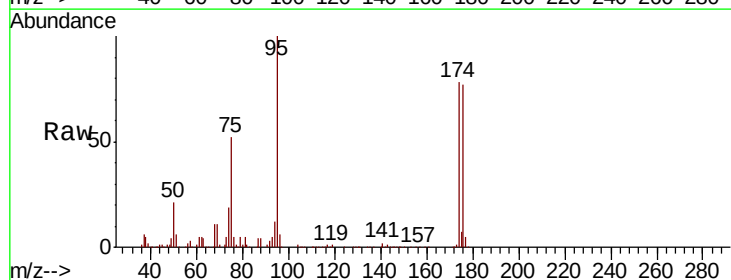
Instrument :
 MSVOA_N
 ClientSampled :
 TP1-B

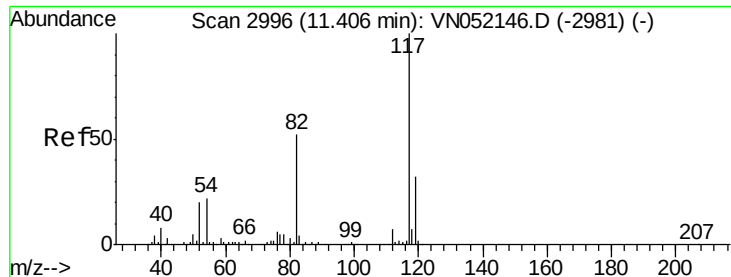
Tot Ion: 43 Resp: 12436
 Ion Ratio Lower Upper
 43 100
 58 23.6 25.8 77.4#



#62
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052157.D
 Acq: 5 Nov 2018 19:53

Tgt Ion: 95 Resp: 298785
 Ion Ratio Lower Upper
 95 100
 174 78.6 0.0 162.6
 176 75.0 0.0 155.4

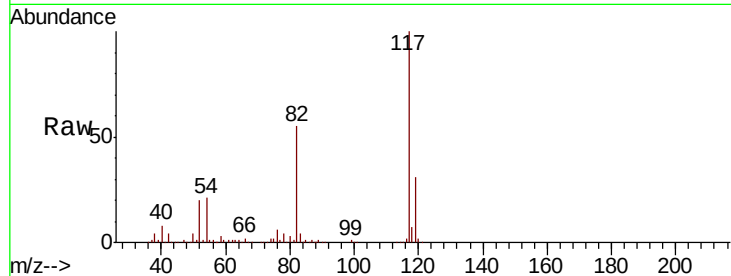




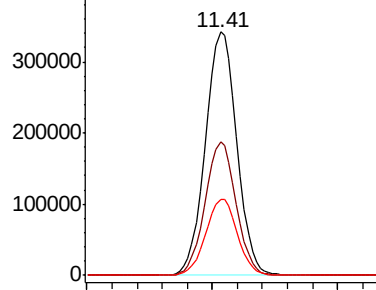
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052157.D
Acq: 5 Nov 2018 19:53

Instrument :
MSVOA_N
ClientSampled :
TP1-B

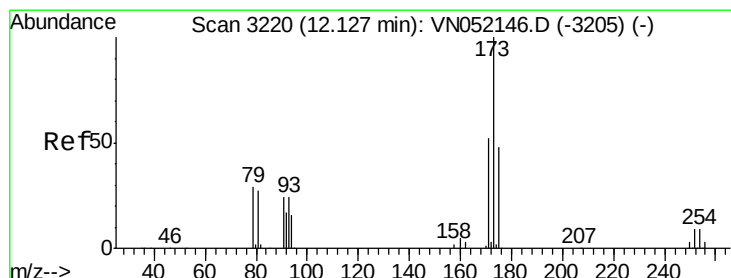
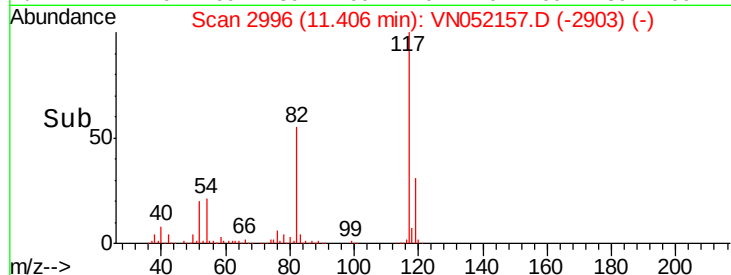
Tot Ion:117 Resp: 594802
Ion Ratio Lower Upper
117 100
82 54.7 41.9 62.9
119 31.4 25.7 38.5



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

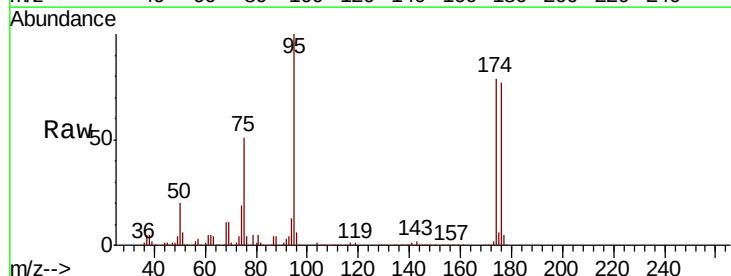


Time--> 11.30 11.40 11.50

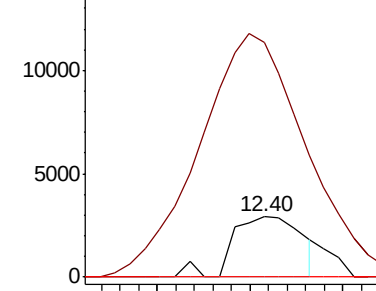


#71
Bromoform
Concen: 3.855 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052157.D
Acq: 5 Nov 2018 19:53

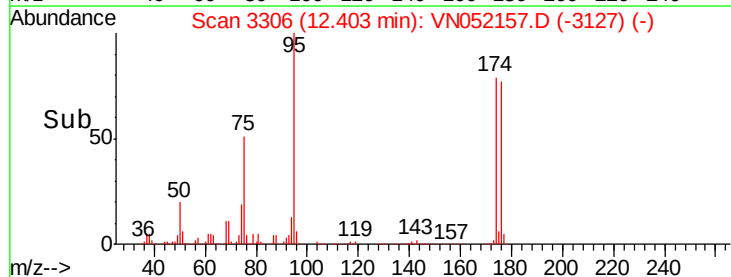
Tgt Ion:173 Resp: 3048
Ion Ratio Lower Upper
173 100
175 549.6 24.8 74.4#
254 0.0 0.2 0.2#

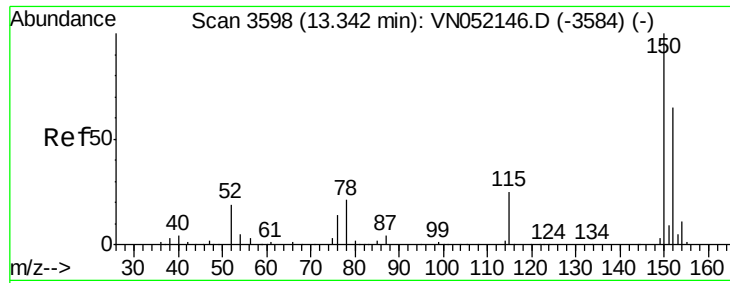


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



Time--> 12.38 12.40 12.42





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

TP1-B

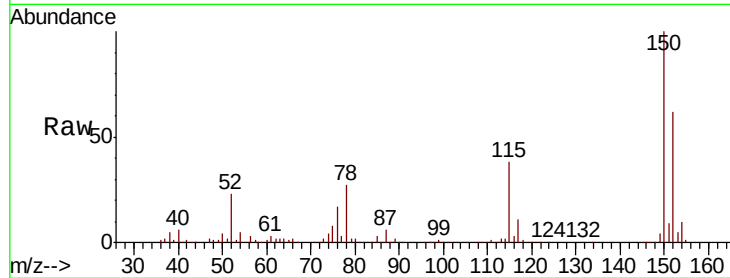
Tot Ion:152 Resp: 240762

Ion Ratio Lower Upper

152 100

115 61.2 28.5 85.5

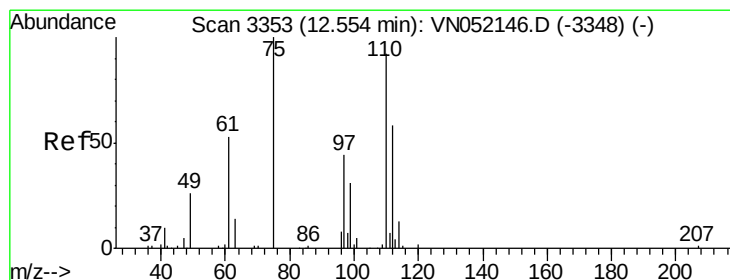
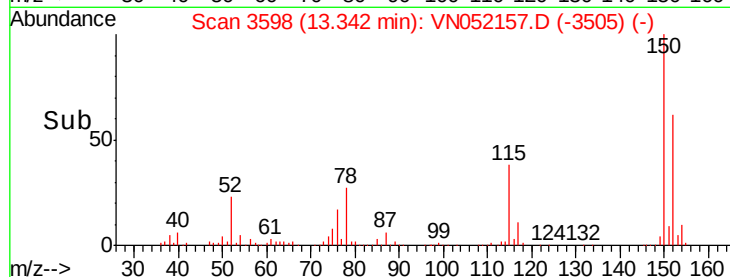
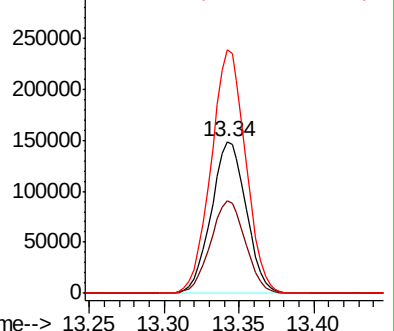
150 159.1 0.0 348.6



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: 40.558 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052157.D

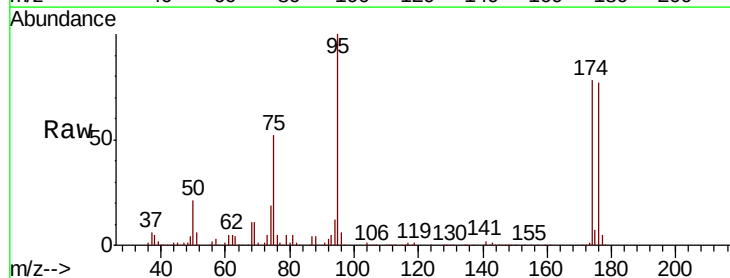
Acq: 5 Nov 2018 19:53

Tgt Ion: 75 Resp: 153672

Ion Ratio Lower Upper

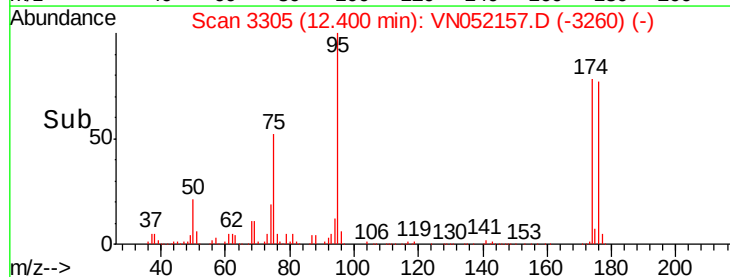
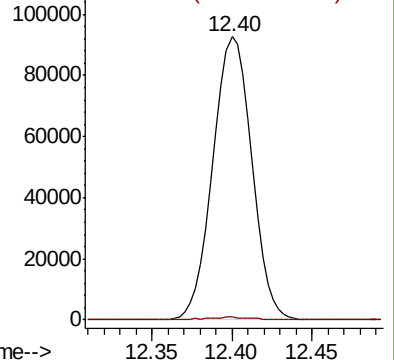
75 100

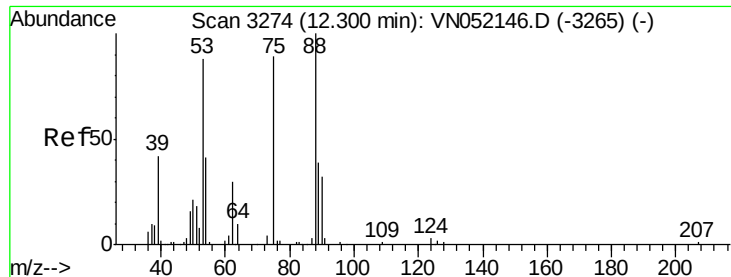
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 145.224 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Instrument :

MSVOA_N

ClientSampled :

TP1-B

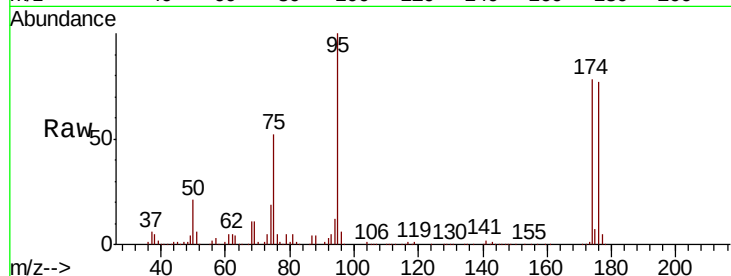
Tot Ion: 75 Resp: 153672

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

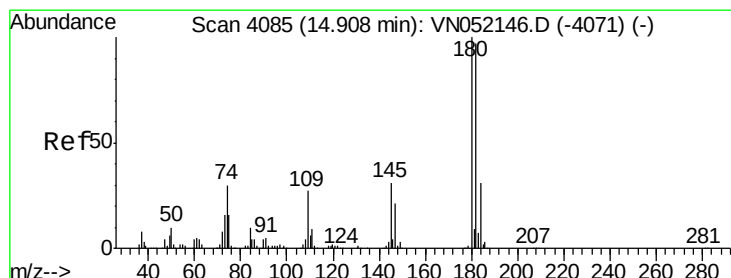
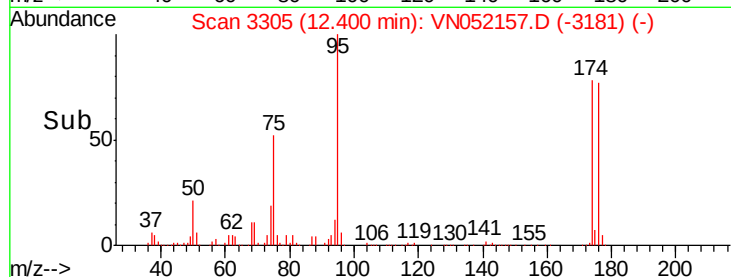
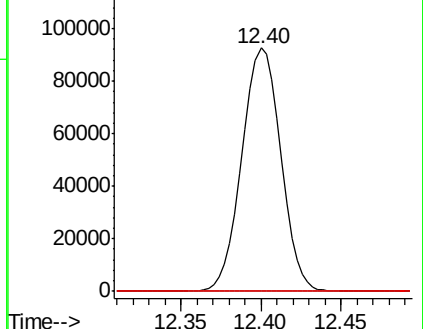
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN052146.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN052146.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN052146.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.435 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

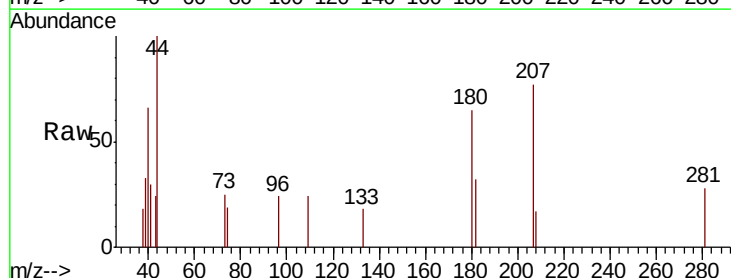
Tgt Ion: 180 Resp: 706

Ion Ratio Lower Upper

180 100

182 45.2 48.1 144.4#

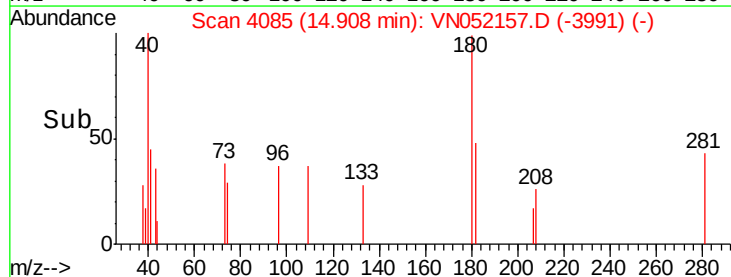
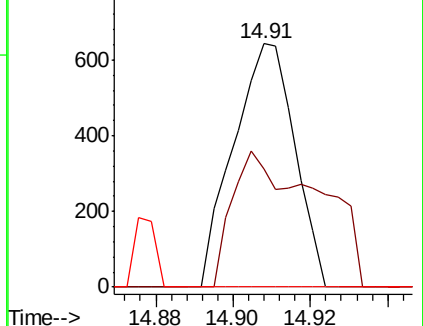
145 0.0 15.3 45.9#

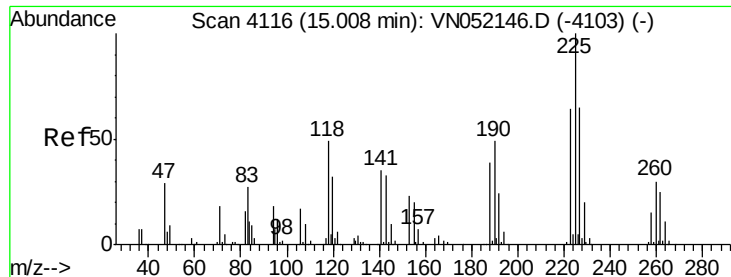


Abundance Ion 179.80 (179.50 to 180.50): VN052146.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN052146.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN052146.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

Instrument :

MSVOA_N

ClientSampleId :

TP1-B

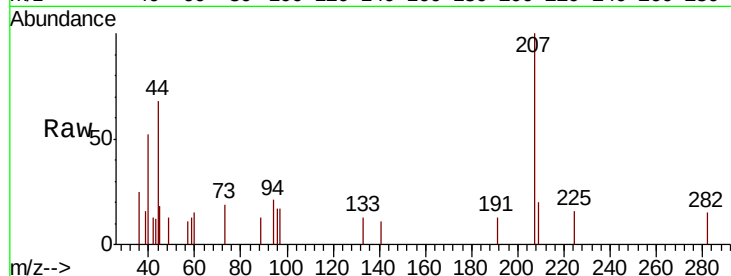
Tot Ion:225 Resp: 150

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.8#

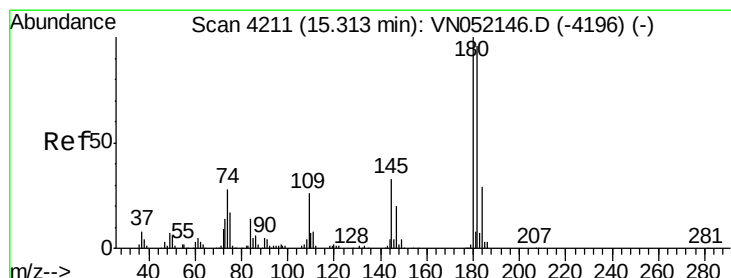
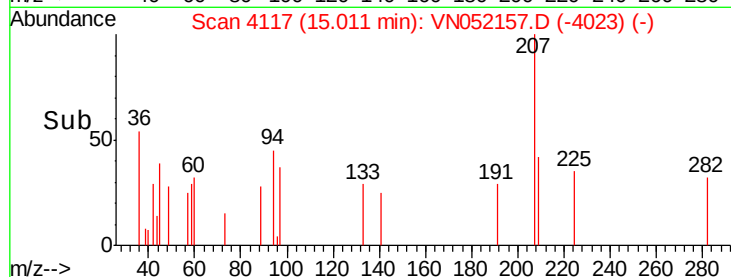
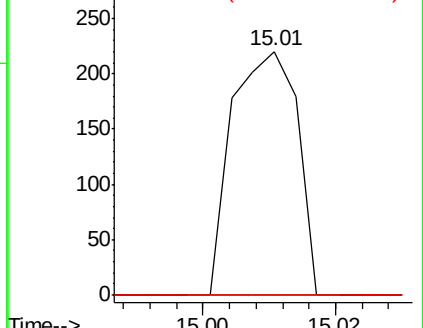
227 0.0 31.6 94.8#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 1.947 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052157.D

Acq: 5 Nov 2018 19:53

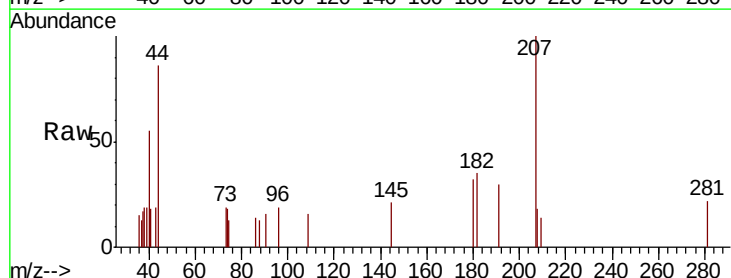
Tgt Ion:180 Resp: 656

Ion Ratio Lower Upper

180 100

182 97.3 46.6 139.7

145 42.7 16.7 50.0



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

