

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050681.D
 Acq On : 16 Aug 2018 3:11
 Operator : MD\SY
 Sample : J4471-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Aug 16 04:52:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	601807	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1006830	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	857930	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	308523	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	419648	55.32	ug/l	0.00
Spiked Amount			Recovery	=	110.64%	
35) Dibromofluoromethane	7.59	113	391002	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
50) Toluene-d8	10.09	98	1370432	45.30	ug/l	0.00
Spiked Amount			Recovery	=	90.60%	
62) 4-Bromofluorobenzene	12.40	95	374735	37.50	ug/l	0.00
Spiked Amount			Recovery	=	75.00%	

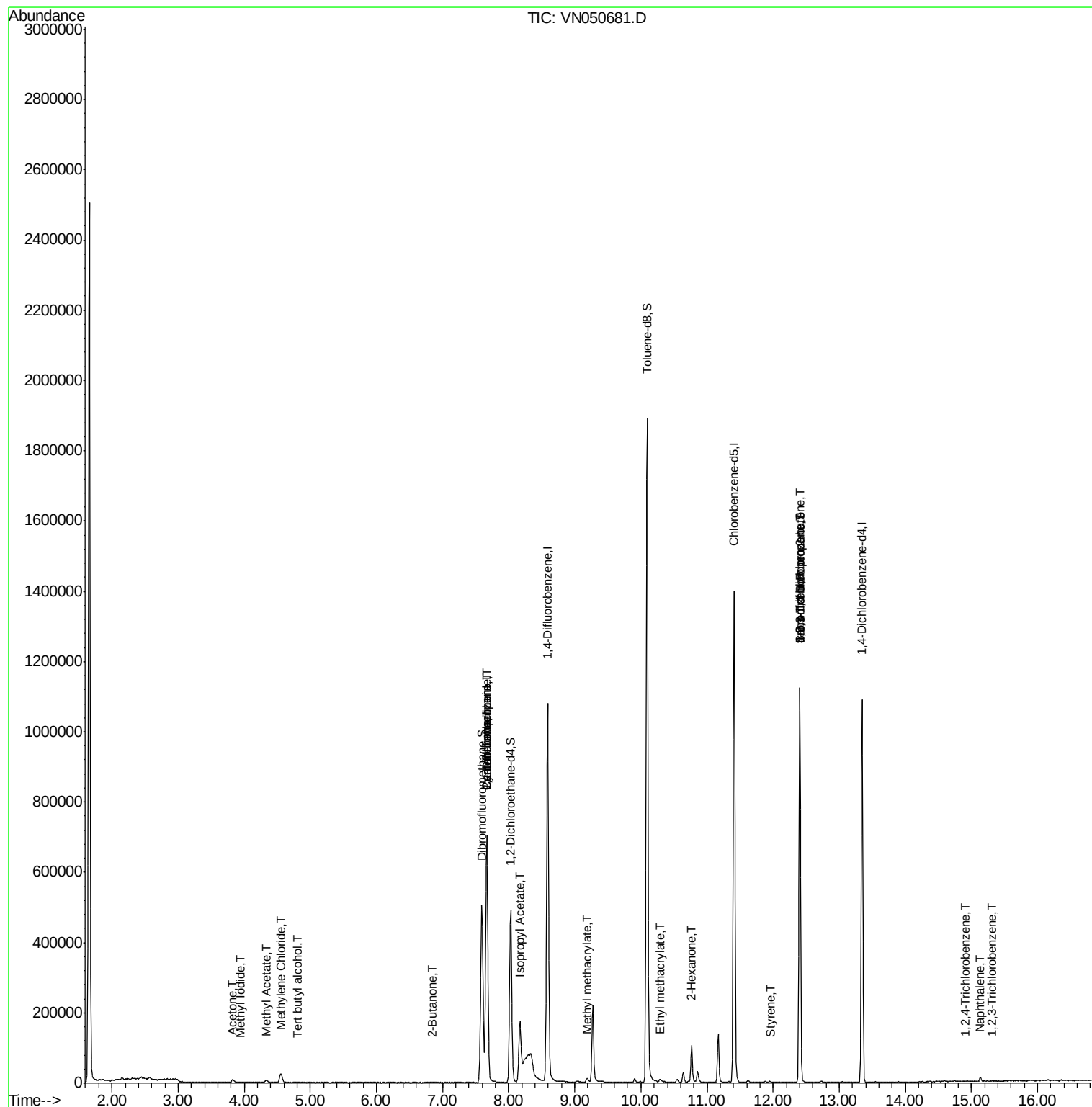
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2360	Below Cal		97
5) Bromomethane	2.57	94	3477	Below Cal		89
6) Chloroethane	2.69	64	219	Below Cal	#	43
10) Methyl Iodide	3.96	142	1241	7.16	ug/l #	48
11) Tert butyl alcohol	4.79	59	348	0.84	ug/l #	72
16) Acetone	3.82	43	16495	7.30	ug/l	93
18) Methyl Acetate	4.34	43	13229	1.52	ug/l #	72
20) Methylene Chloride	4.55	84	19634	1.49	ug/l	95
25) 2-Butanone	6.85	43	3188	1.02	ug/l	98
31) Cyclohexane	7.67	56	11438	0.65	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41796	3.73	ug/l #	47
38) Carbon Tetrachloride	7.67	117	54683	4.70	ug/l #	17
43) Isopropyl Acetate	8.17	43	221623	19.20	ug/l	96
48) Methyl methacrylate	9.18	41	6944	1.20	ug/l #	15
56) Ethyl methacrylate	10.29	69	112	1.92	ug/l #	28
59) 2-Hexanone	10.77	43	13848	2.75	ug/l	63
70) Styrene	11.97	104	245	0.95	ug/l #	67
71) Bromoform	12.40	173	2488	0.47	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	226	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	178301	35.47	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	178301	128.48	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	179	2.70	ug/l #	32
95) Naphthalene	15.13	128	9433	4.59	ug/l	96
96) 1,2,3-Trichlorobenzene	15.32	180	215	1.98	ug/l #	34

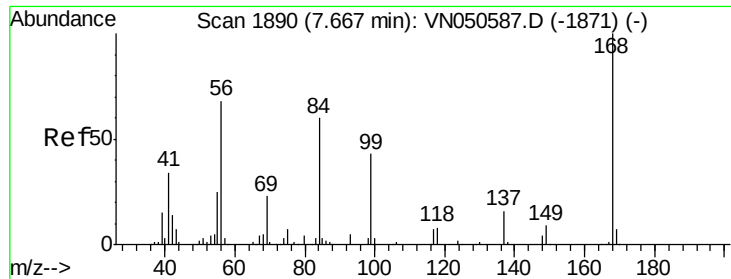
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN081518\
Data File : VN050681.D
Acq On : 16 Aug 2018 3:11
Operator : MD\SY
Sample : J4471-08
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Quant Time: Aug 16 04:52:42 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

Instrument :

MSVOA_N

ClientSampleId :

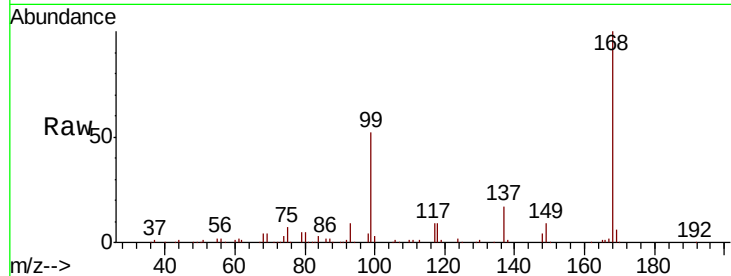
TP-2

Tot Ion:168 Resp: 601807

Ion Ratio Lower Upper

168 100

99 51.6 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

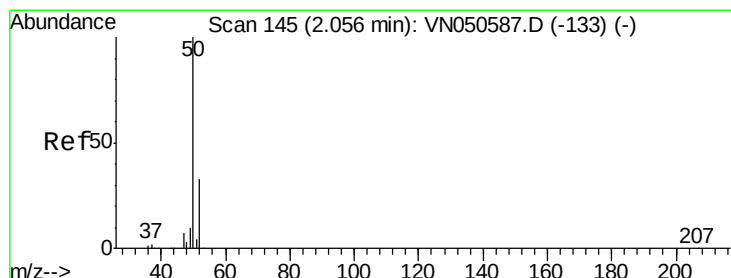
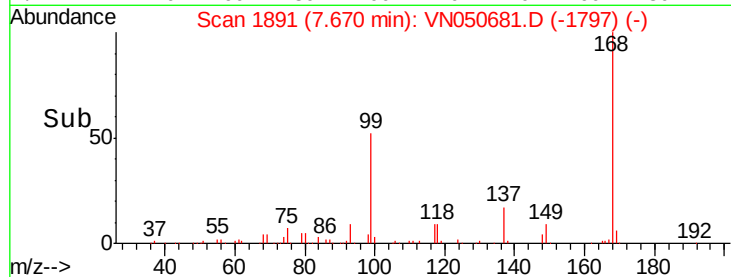
100000

50000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050681.D

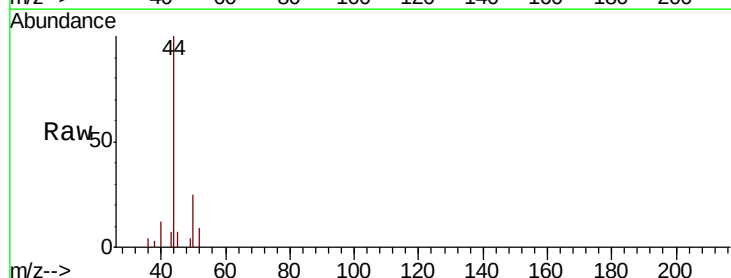
Acq: 16 Aug 2018 3:11

Tgt Ion: 50 Resp: 2360

Ion Ratio Lower Upper

50 100

52 34.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

1500

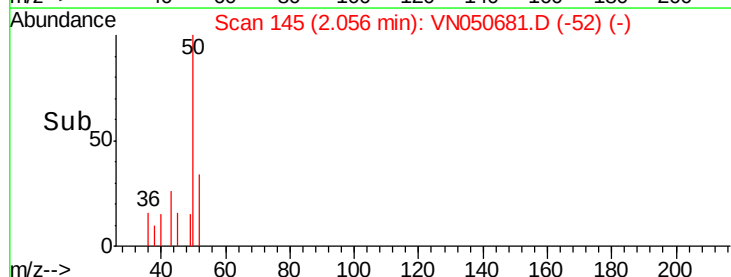
1000

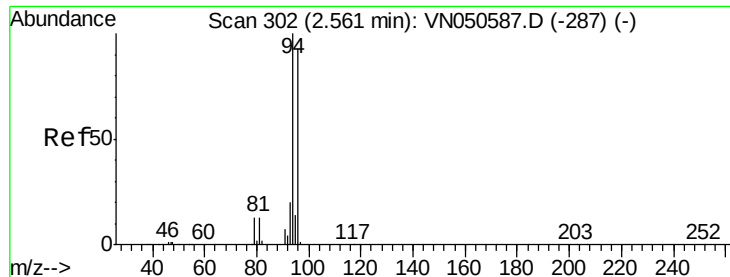
500

0

Time-->

2.05 2.10





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

Instrument :

MSVOA_N

ClientSampled :

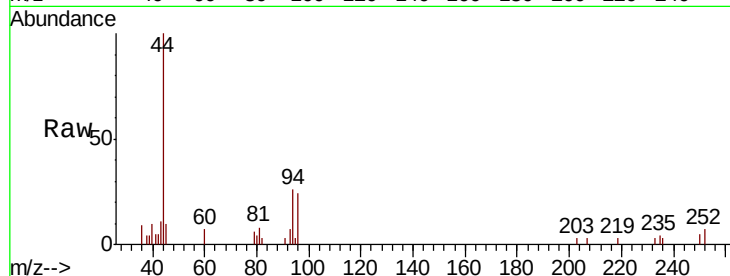
TP-2

Tot Ion: 94 Resp: 3477

Ion Ratio Lower Upper

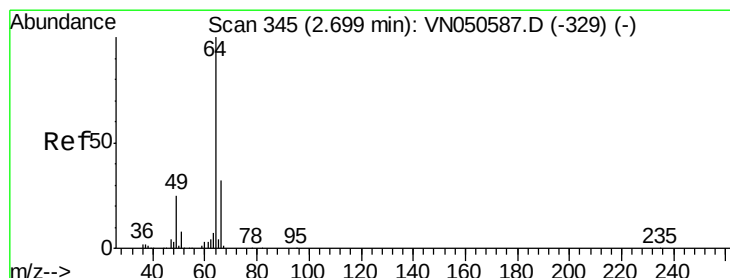
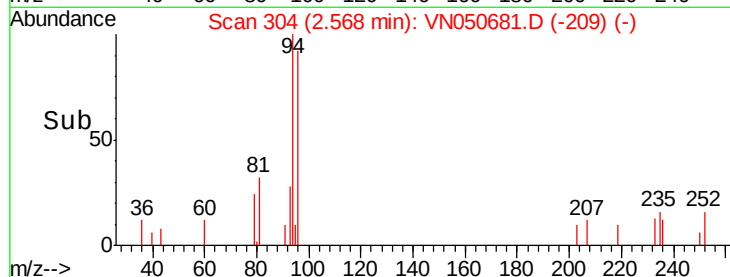
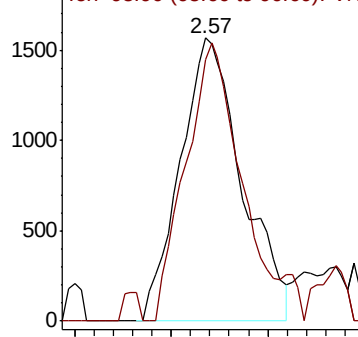
94 100

96 82.1 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 343

Delta R.T. -0.01 min

Lab File: VN050681.D

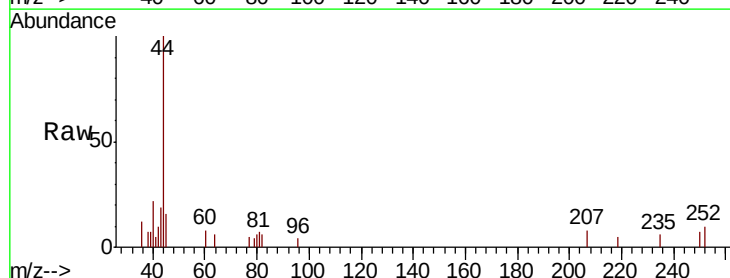
Acq: 16 Aug 2018 3:11

Tgt Ion: 64 Resp: 219

Ion Ratio Lower Upper

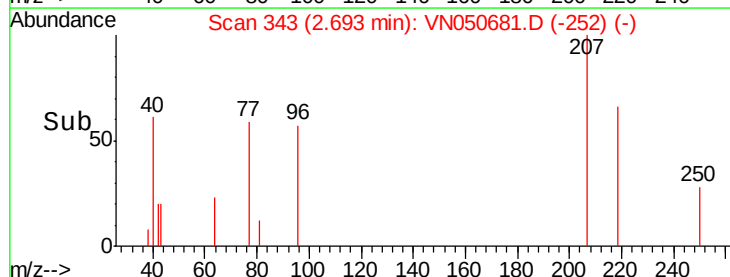
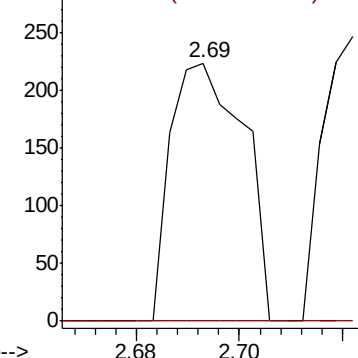
64 100

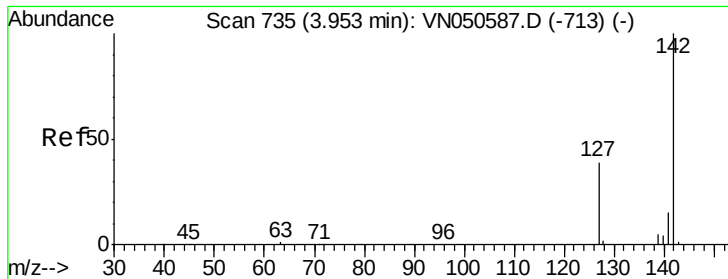
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

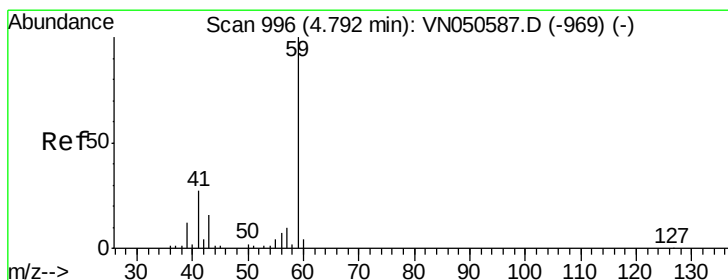
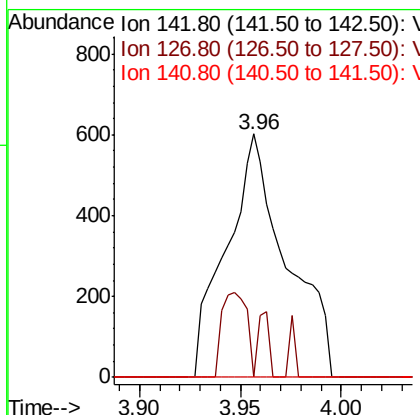
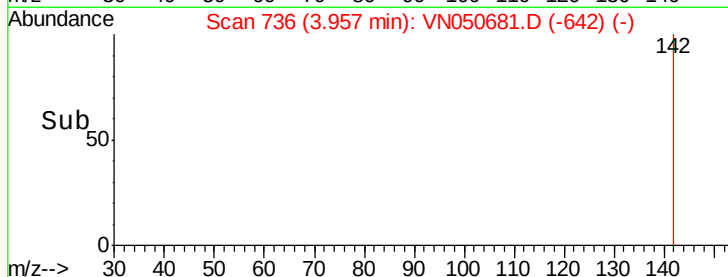
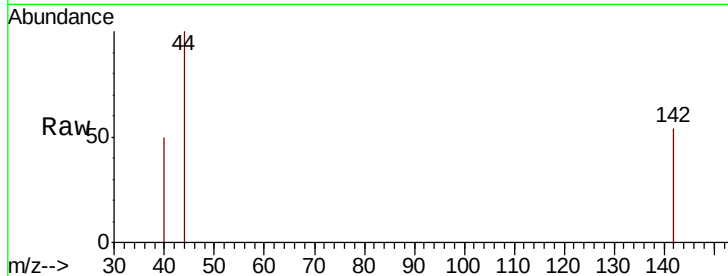




#10
Methvl Iodide
Concen: 7.16 ug/l
RT: 3.96 min Scan# 736
Delta R.T. 0.00 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

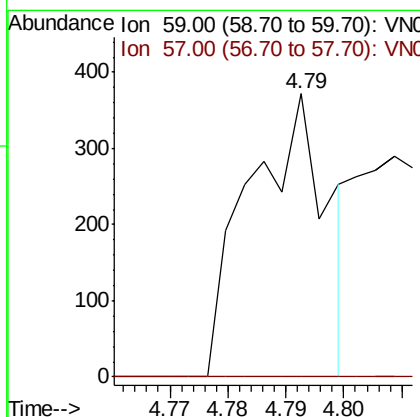
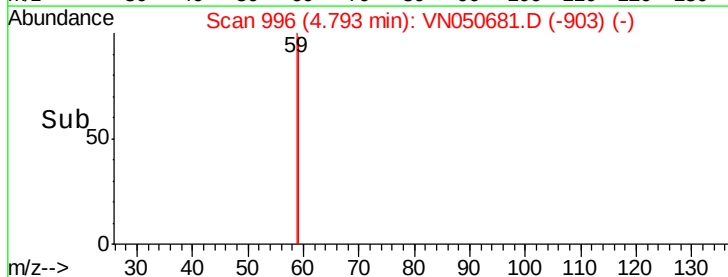
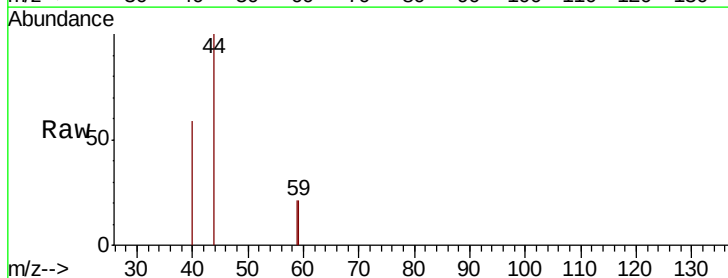
Instrument :
MSVOA_N
ClientSampled :
TP-2

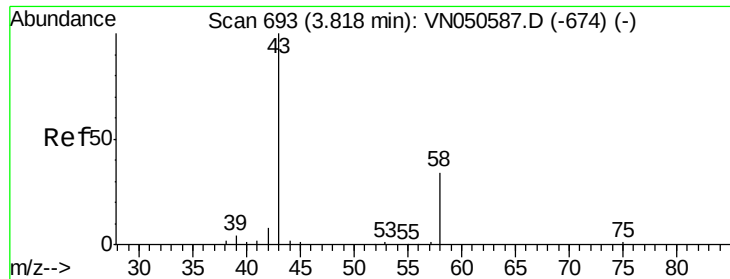
Tot Ion:142 Resp: 1241
Ion Ratio Lower Upper
142 100
127 4.9 32.6 49.0#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.84 ug/l
RT: 4.79 min Scan# 996
Delta R.T. 0.00 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

Tgt Ion: 59 Resp: 348
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 7.30 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

Instrument :

MSVOA_N

ClientSampled :

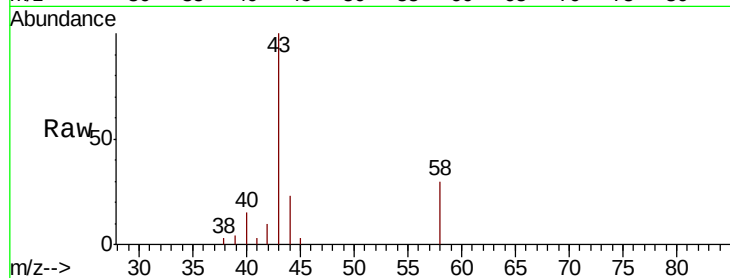
TP-2

Tot Ion: 43 Resp: 16495

Ion Ratio Lower Upper

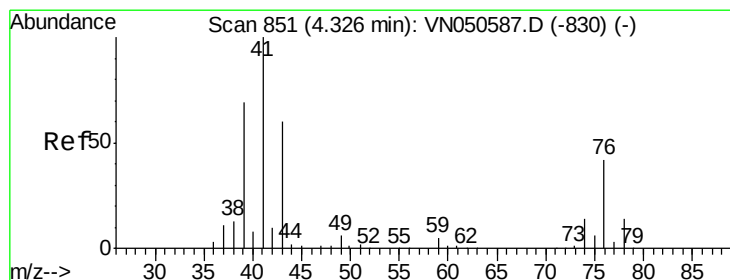
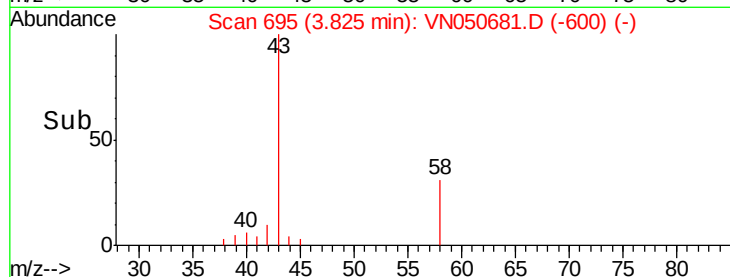
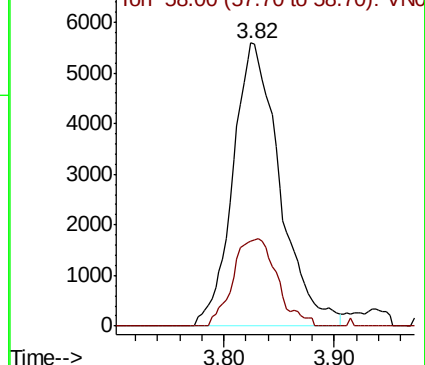
43 100

58 30.1 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.52 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050681.D

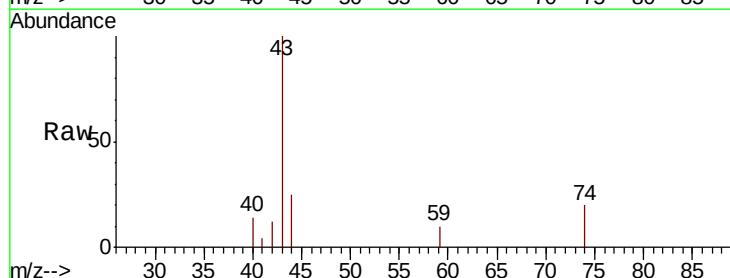
Acq: 16 Aug 2018 3:11

Tgt Ion: 43 Resp: 13229

Ion Ratio Lower Upper

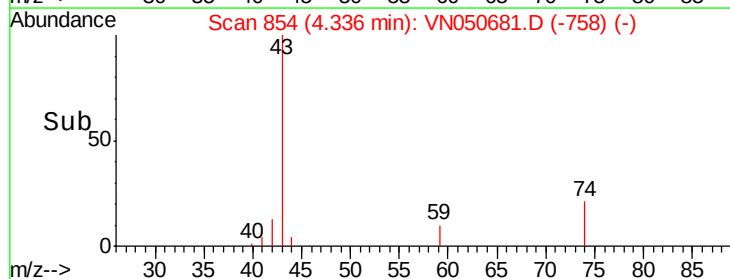
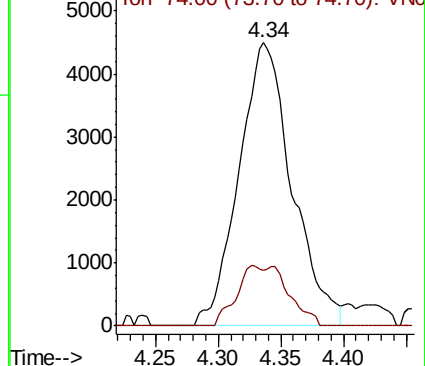
43 100

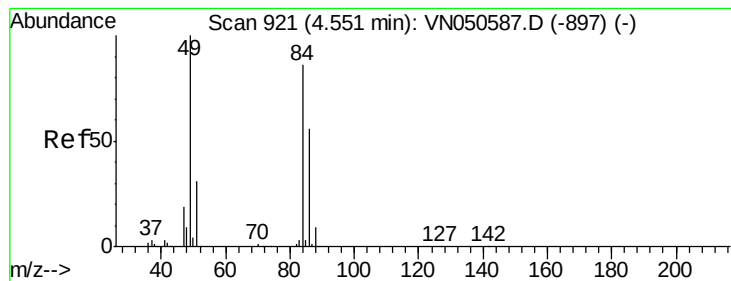
74 10.7 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 1.49 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

Instrument :

MSVOA_N

ClientSampled :

TP-2

Tot Ion: 84 Resp: 19634

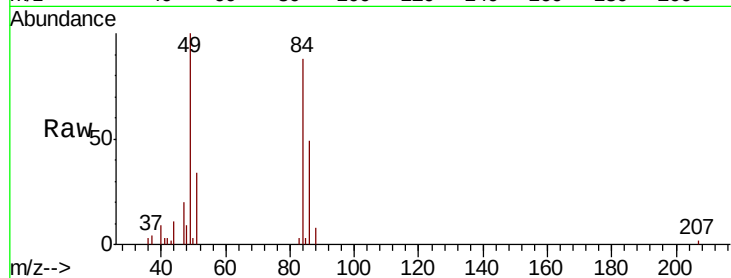
Ion Ratio Lower Upper

84 100

49 114.1 92.6 138.8

51 38.9 28.6 43.0

86 56.0 52.2 78.2

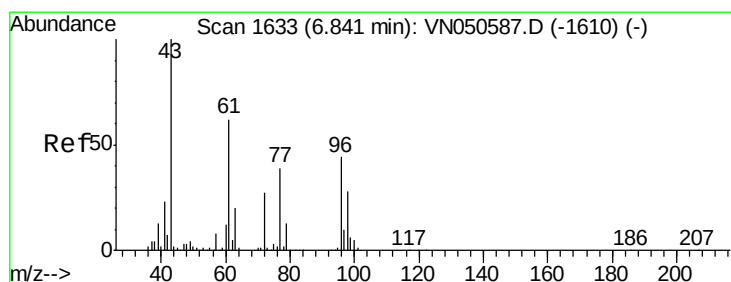
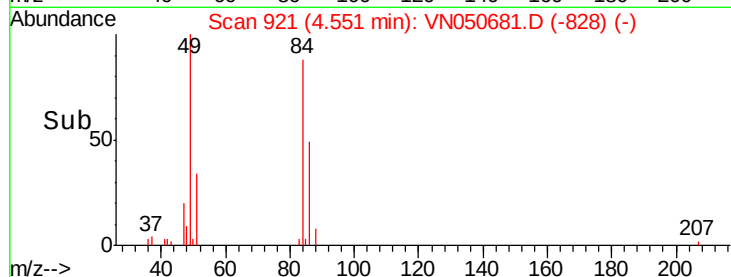
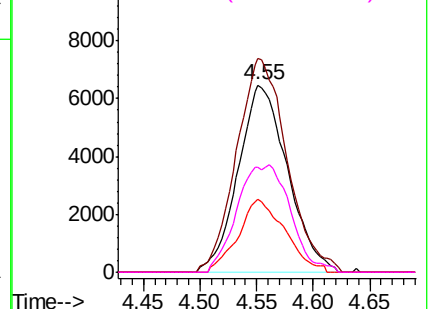


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 1.02 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN050681.D

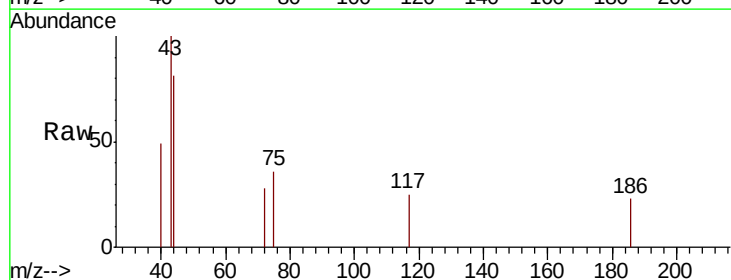
Acq: 16 Aug 2018 3:11

Tgt Ion: 43 Resp: 3188

Ion Ratio Lower Upper

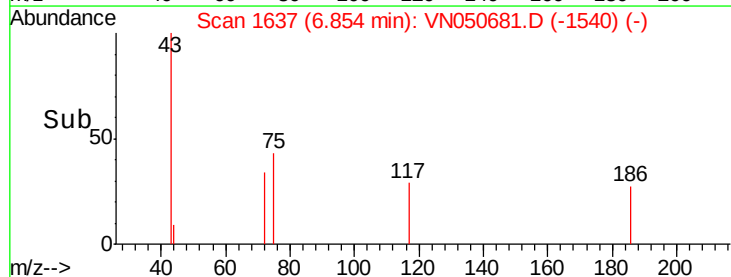
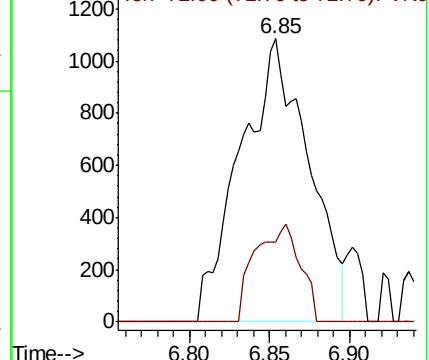
43 100

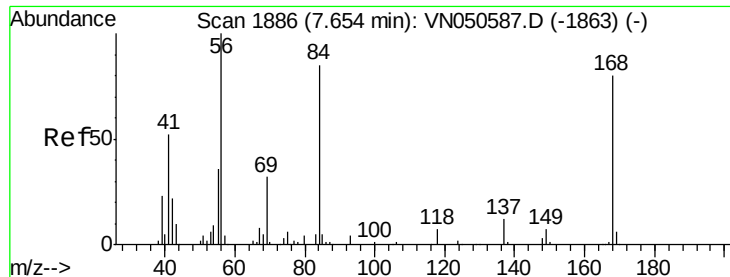
72 28.2 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 0.65 ug/l

RT: 7.67 min Scan# 1892

Delta R.T. 0.02 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

Instrument :

MSVOA_N

ClientSampled :

TP-2

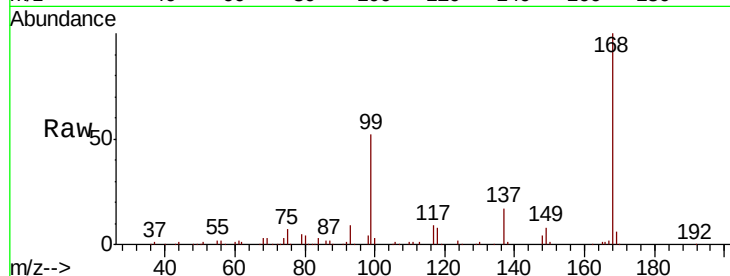
Tot Ion: 56 Resp: 11438

Ion Ratio Lower Upper

56 100

69 180.9 25.8 38.6#

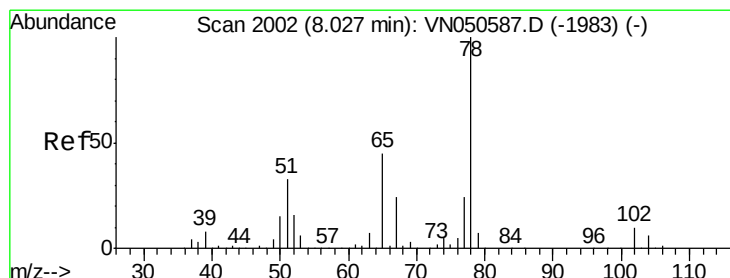
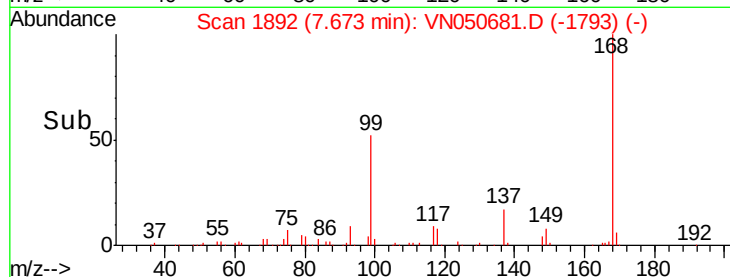
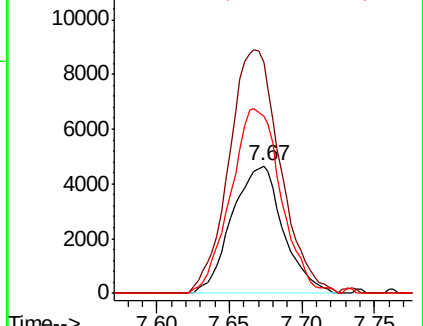
84 139.1 67.8 101.6#



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: 55.32 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050681.D

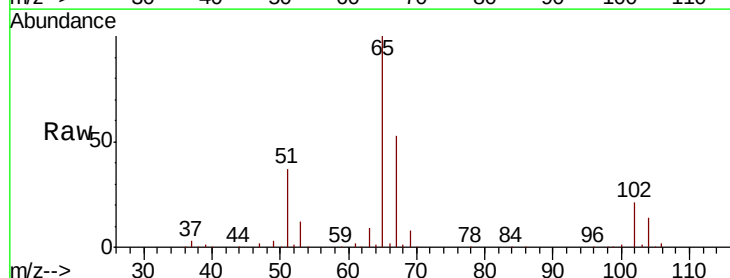
Acq: 16 Aug 2018 3:11

Tgt Ion: 65 Resp: 419648

Ion Ratio Lower Upper

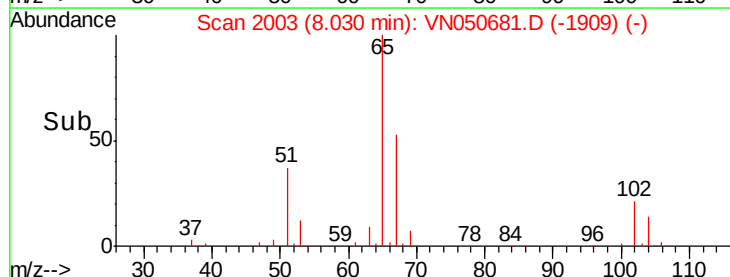
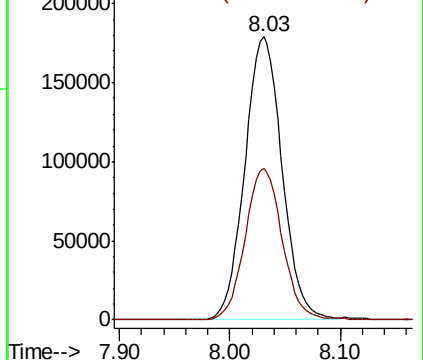
65 100

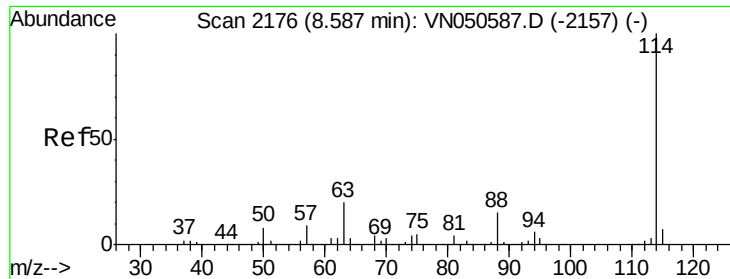
67 53.1 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

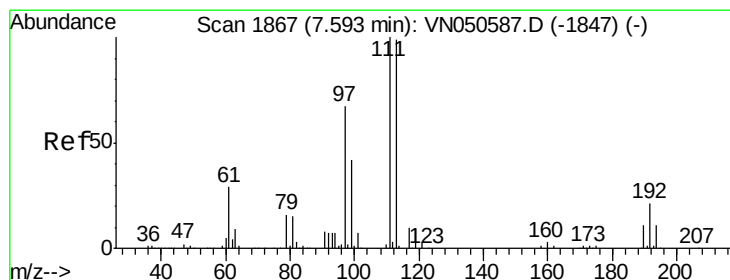
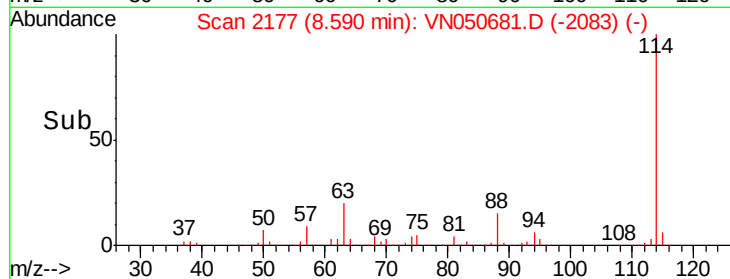
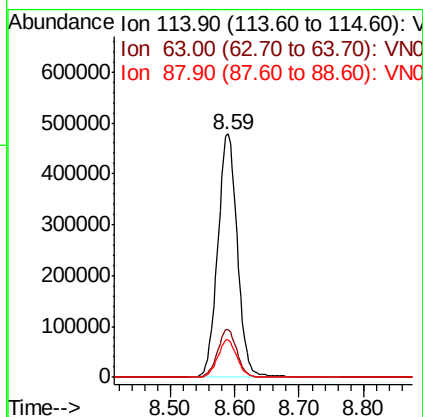
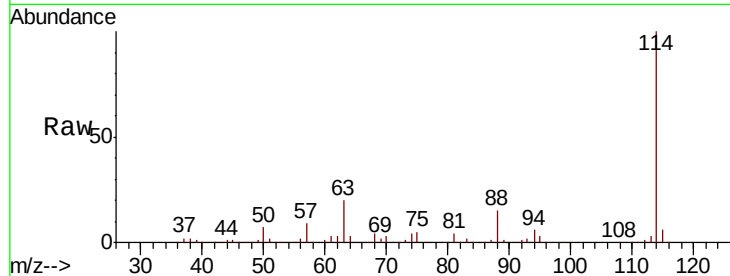




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050681.D
 Acq: 16 Aug 2018 3:11

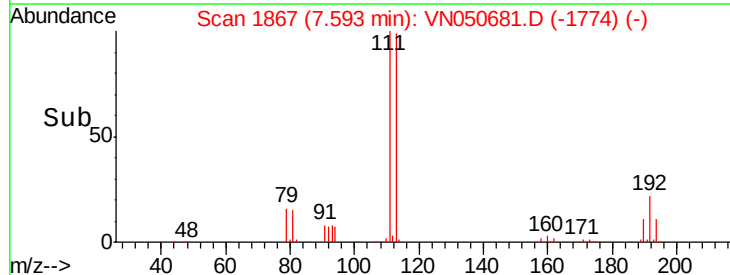
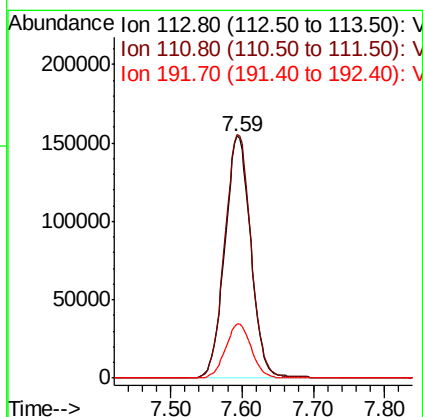
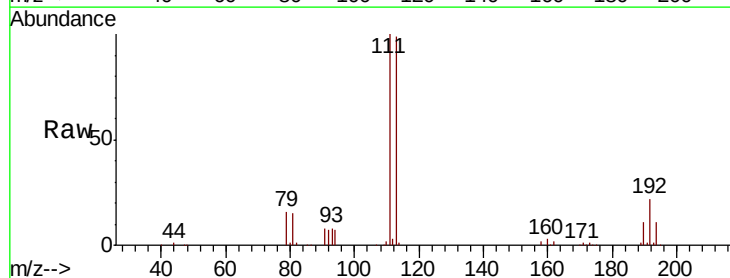
Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

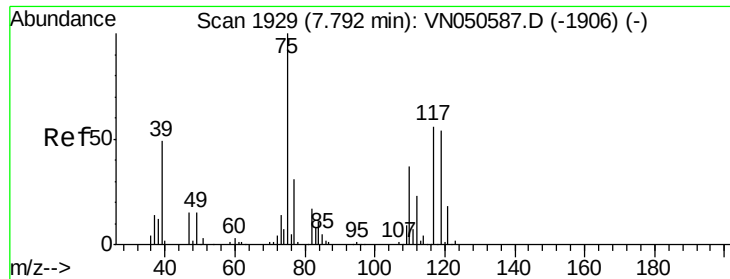
Tot Ion:114 Resp: 1006830
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.4 0.0 30.8



#35
 Dibromofluoromethane
 Concen: 48.64 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050681.D
 Acq: 16 Aug 2018 3:11

Tgt Ion:113 Resp: 391002
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.0 121.6
 192 22.2 17.6 26.4

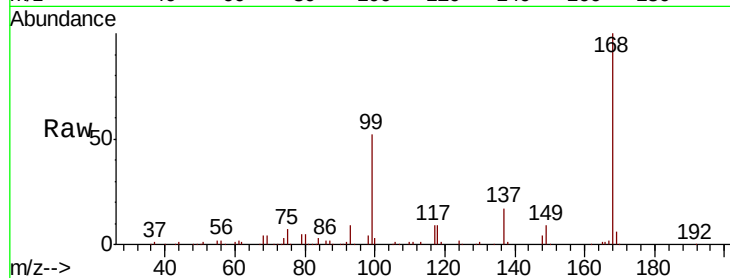




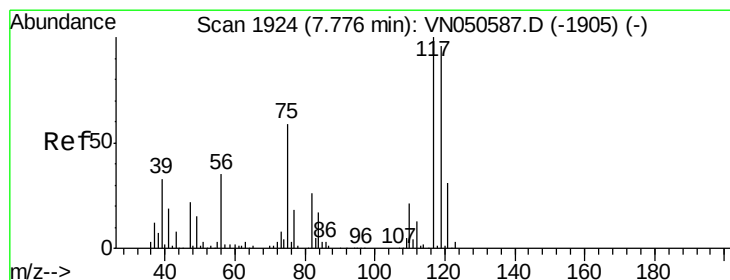
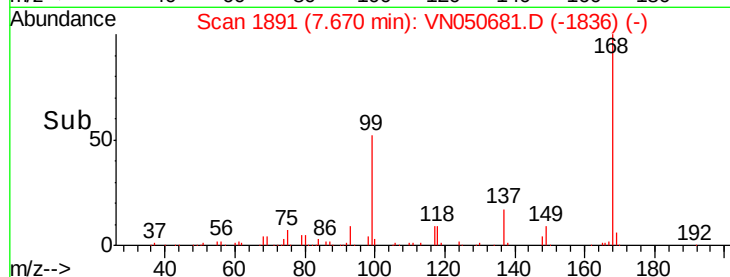
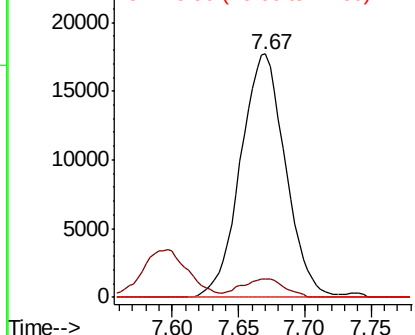
#36
 1,1-Dichloropropene
 Concen: 3.73 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050681.D
 Acq: 16 Aug 2018 3:11

Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.4	18.3	54.9#
77	0.0	25.0	37.4#

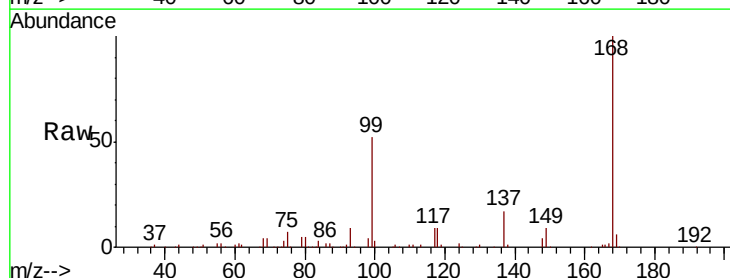


Abundance Ion 74.90 (74.60 to 75.60): VN050587.D (-1906) (-)
 Ion 109.90 (109.60 to 110.60): VN050587.D (-1906) (-)
 Ion 76.90 (76.60 to 77.60): VN050587.D (-1906) (-)

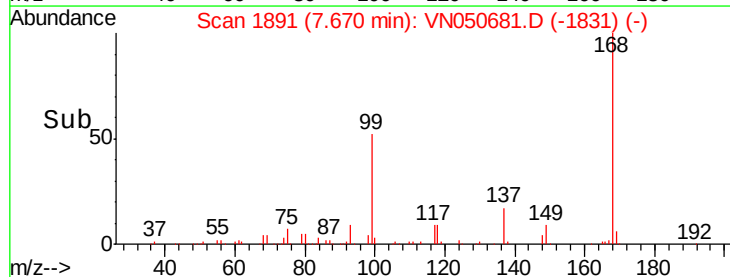
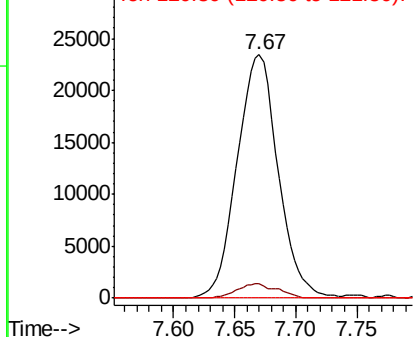


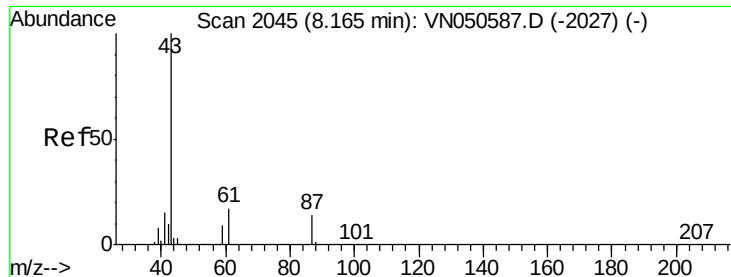
#38
 Carbon Tetrachloride
 Concen: 4.70 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050681.D
 Acq: 16 Aug 2018 3:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	76.6	115.0#
121	0.0	25.0	37.6#



Abundance Ion 116.80 (116.50 to 117.50): VN050587.D (-1905) (-)
 Ion 118.80 (118.50 to 119.50): VN050587.D (-1905) (-)
 Ion 120.80 (120.50 to 121.50): VN050587.D (-1905) (-)





#43

Isopropyl Acetate

Concen: 19.20 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

Instrument :

MSVOA_N

ClientSampleId :

TP-2

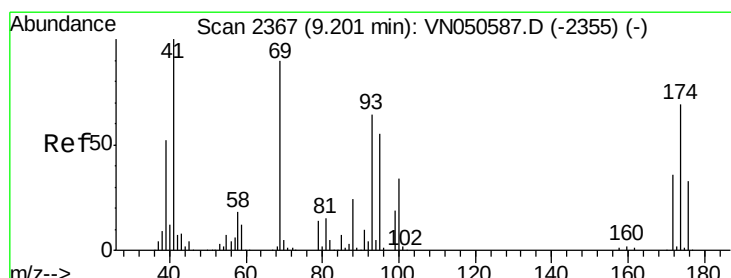
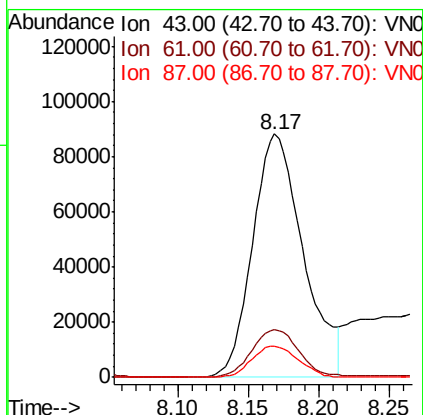
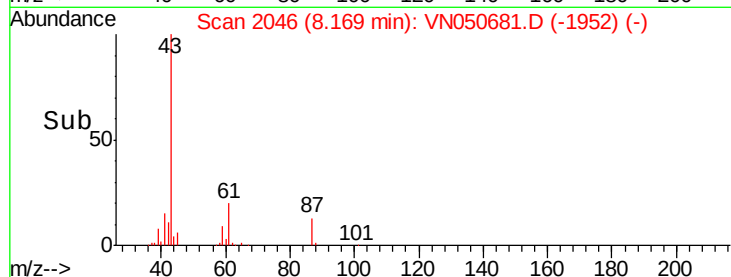
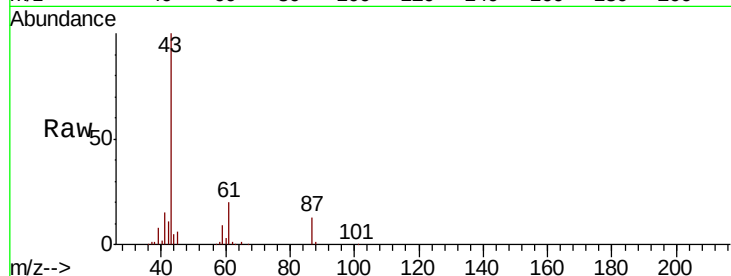
Tot Ion: 43 Resp: 221623

Ion Ratio Lower Upper

43 100

61 18.6 16.2 24.2

87 11.8 10.9 16.3



#48

Methyl methacrylate

Concen: 1.20 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

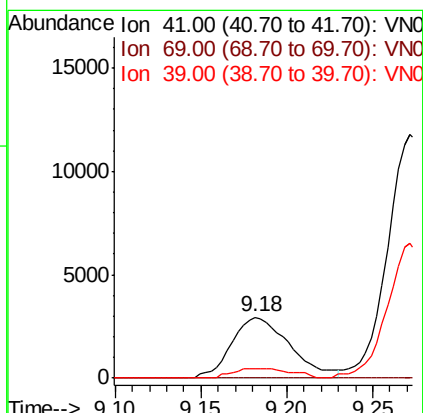
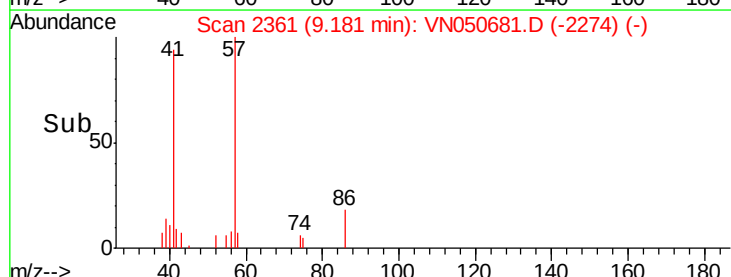
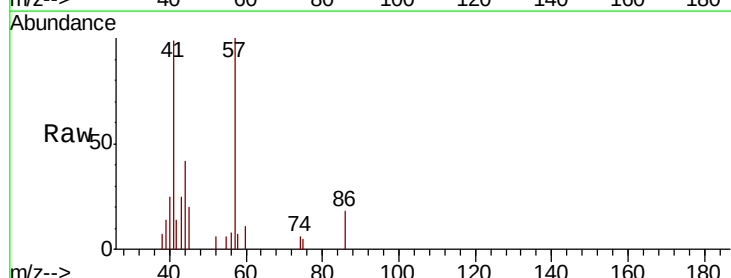
Tgt Ion: 41 Resp: 6944

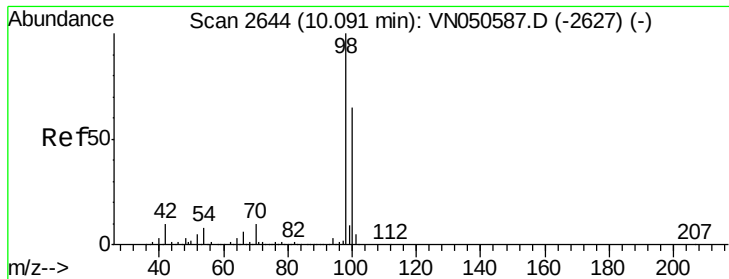
Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

39 7.6 43.0 64.6#

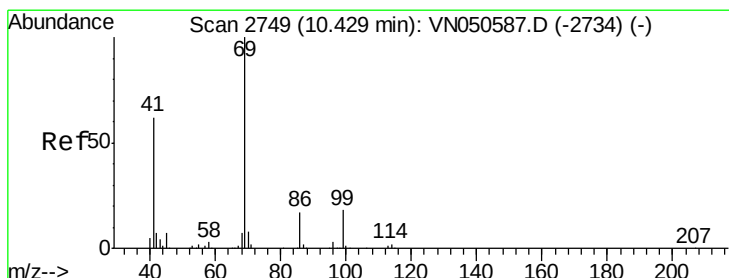
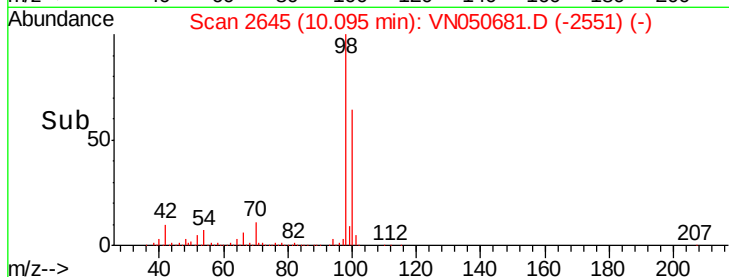
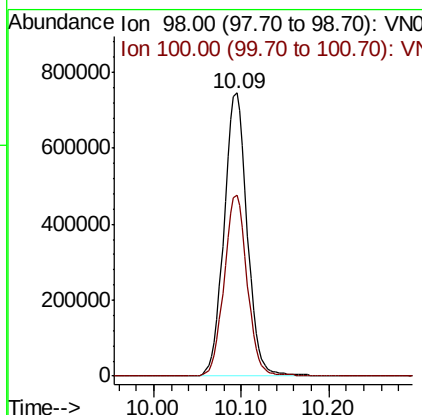
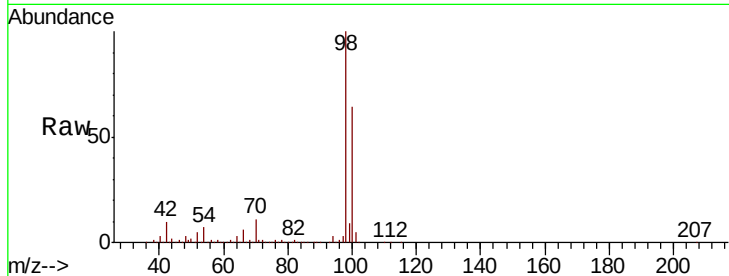




#50
Toluene-d8
Concen: 45.30 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

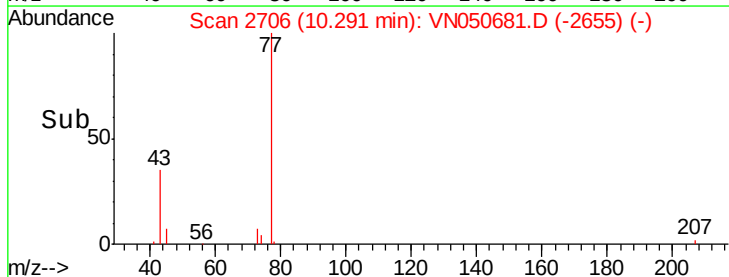
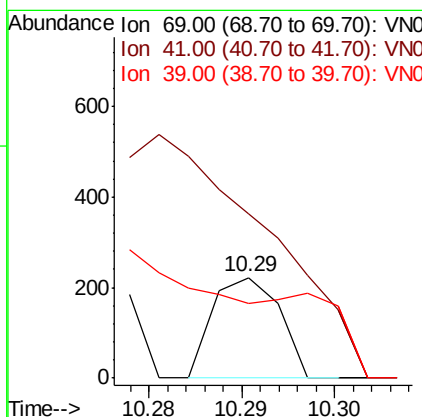
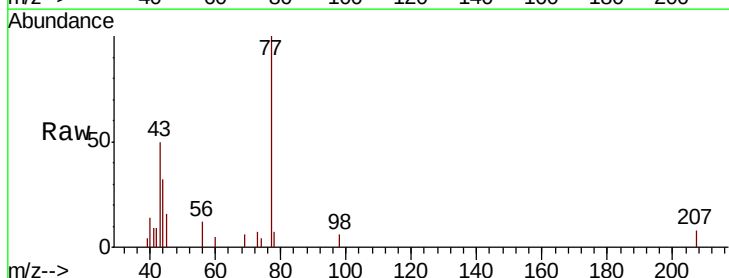
Instrument :
MSVOA_N
ClientSampled :
TP-2

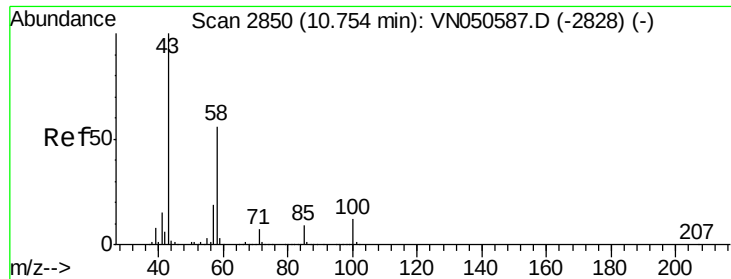
Tot Ion: 98 Resp: 1370432
Ion Ratio Lower Upper
98 100
100 63.7 51.8 77.8



#56
Ethyl methacrylate
Concen: 1.92 ug/l
RT: 10.29 min Scan# 2706
Delta R.T. -0.14 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

Tgt Ion: 69 Resp: 112
Ion Ratio Lower Upper
69 100
41 0.0 49.7 74.5#
39 0.0 24.2 36.2#

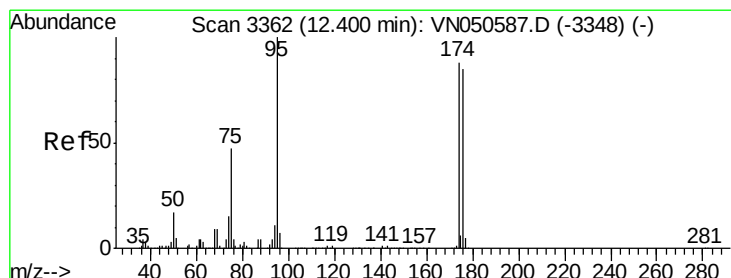
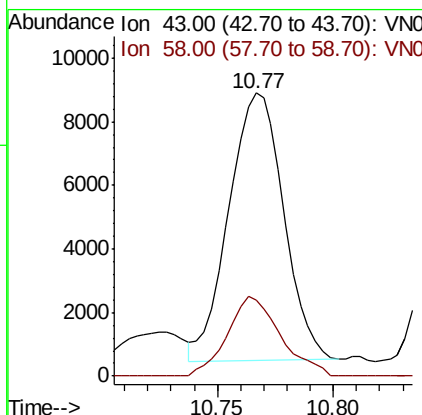
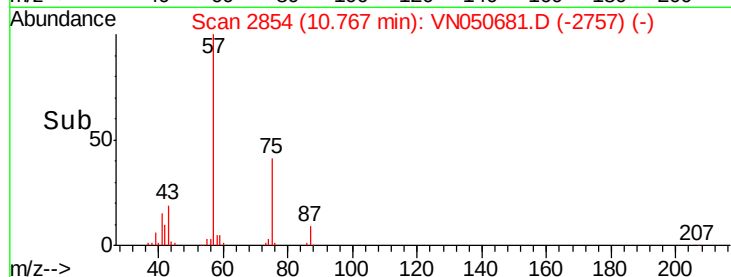
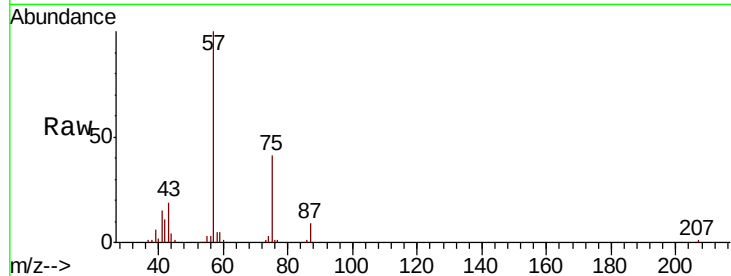




#59
2-Hexanone
Concen: 2.75 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

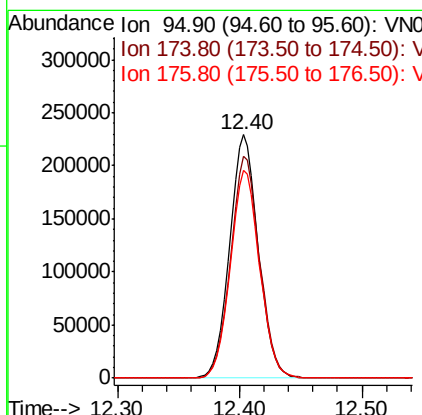
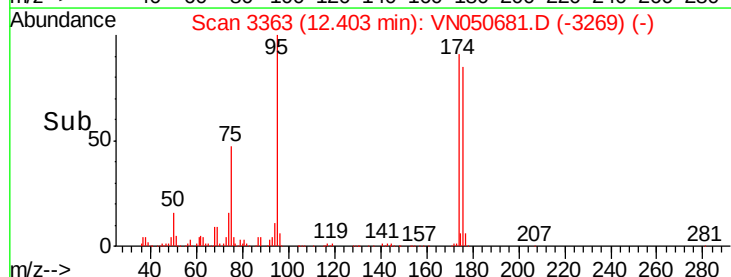
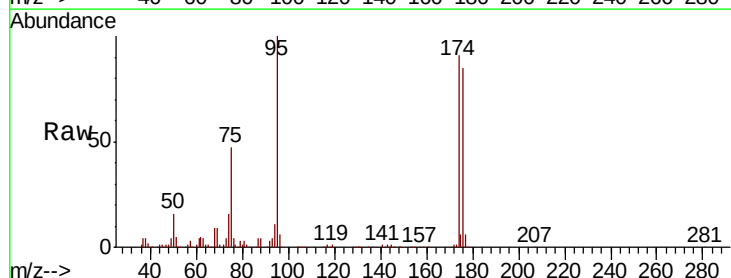
Instrument :
MSVOA_N
ClientSampleId :
TP-2

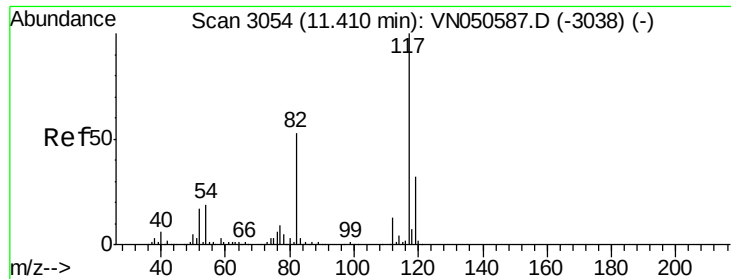
Tot Ion: 43 Resp: 13848
Ion Ratio Lower Upper
43 100
58 28.8 28.0 84.0



#62
4-Bromofluorobenzene
Concen: 37.50 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

Tgt Ion: 95 Resp: 374735
Ion Ratio Lower Upper
95 100
174 92.1 0.0 177.8
176 87.2 0.0 175.0

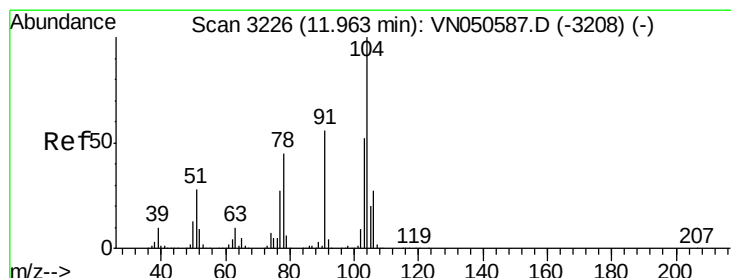
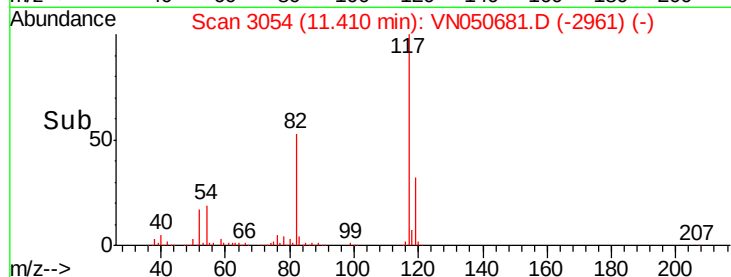
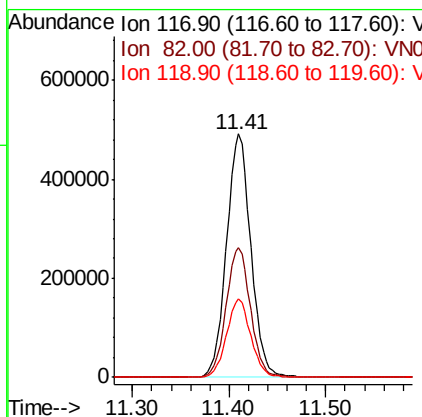
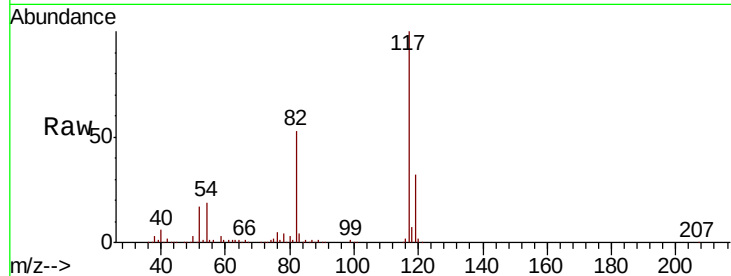




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

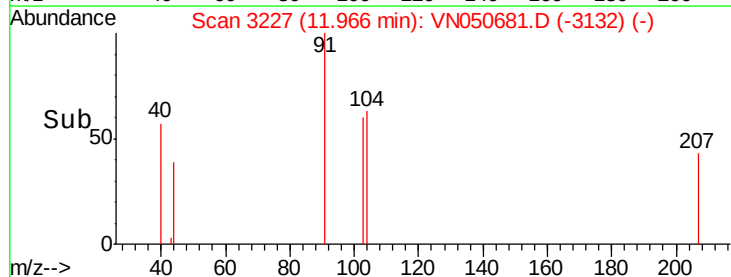
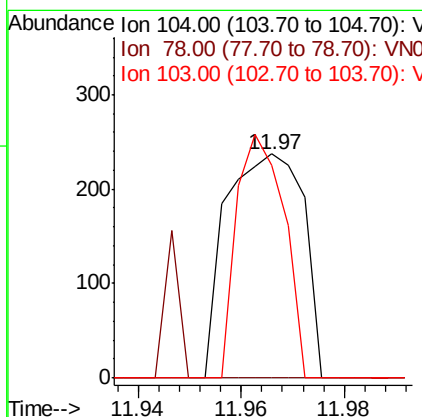
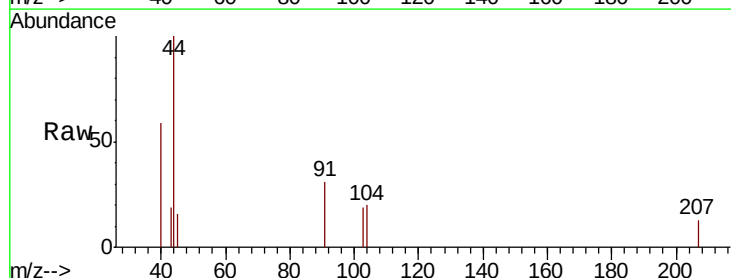
Instrument :
MSVOA_N
ClientSampled :
TP-2

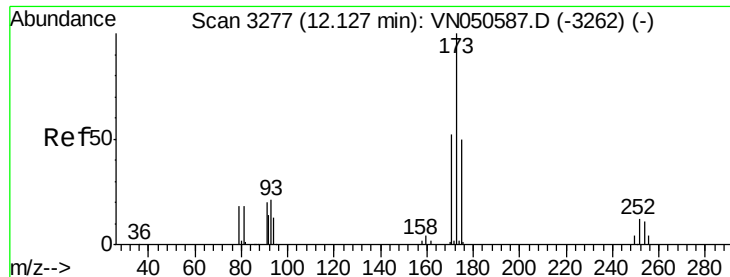
Tot Ion:117 Resp: 857930
Ion Ratio Lower Upper
117 100
82 53.2 42.4 63.6
119 32.1 25.8 38.8



#70
Styrene
Concen: 0.95 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

Tgt Ion:104 Resp: 245
Ion Ratio Lower Upper
104 100
78 12.2 39.1 58.7#
103 66.9 44.9 67.3

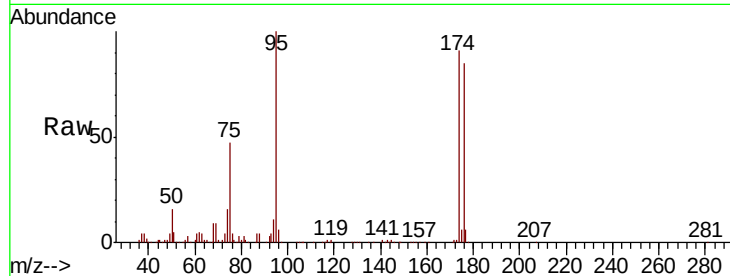




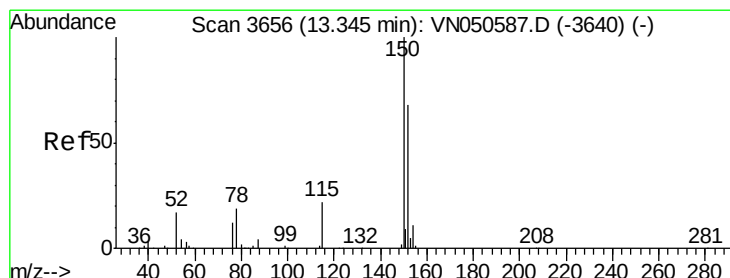
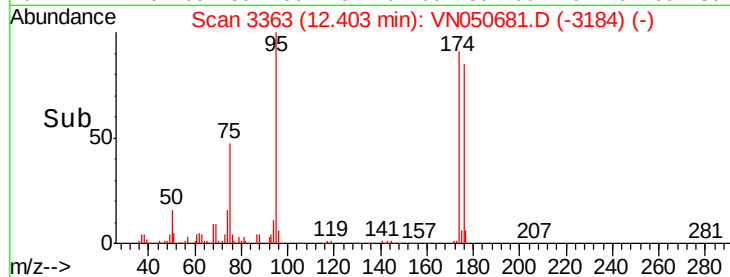
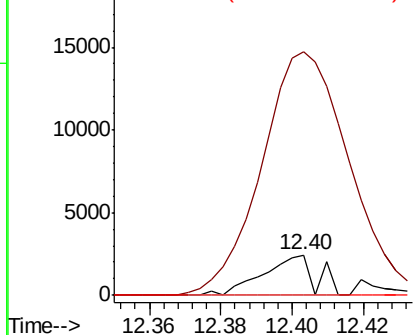
#71
Bromoform
Concen: 0.47 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

Instrument :
MSVOA_N
ClientSampled :
TP-2

Tot Ion:173 Resp: 2488
Ion Ratio Lower Upper
173 100
175 822.3 24.4 73.2#
254 0.0 0.0 0.0

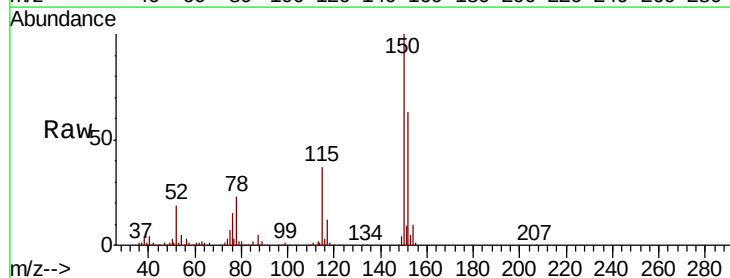


Abundance Ion 172.70 (172.40 to 173.40): V
20000 Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

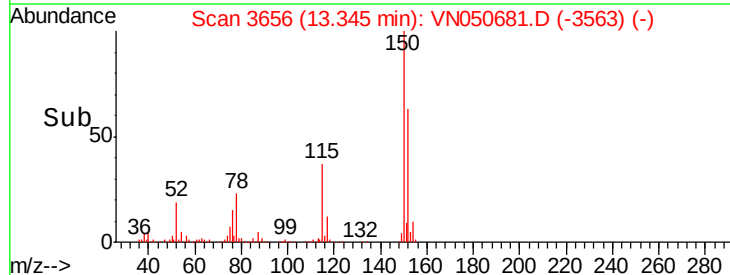
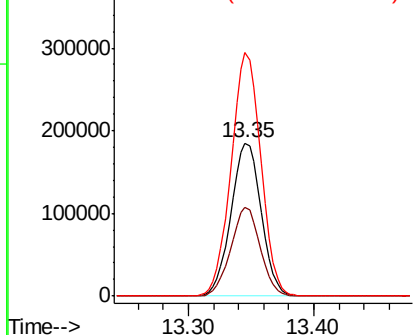


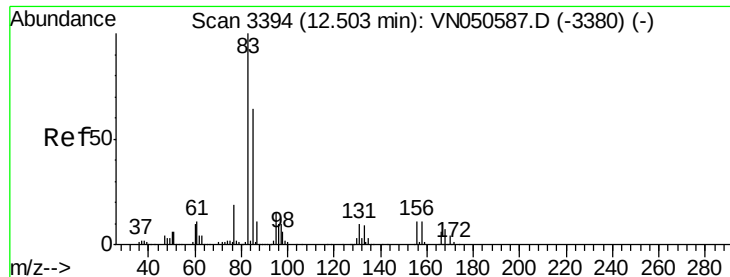
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

Tgt Ion:152 Resp: 308523
Ion Ratio Lower Upper
152 100
115 56.6 28.1 84.2
150 157.1 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V
400000 Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3361

Delta R.T. -0.11 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

Instrument :

MSVOA_N

ClientSampleId :

TP-2

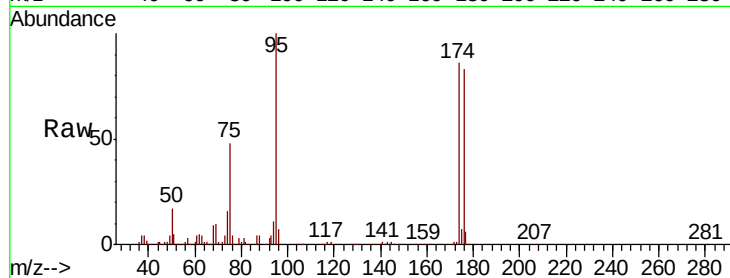
Tot Ion: 83 Resp: 226

Ion Ratio Lower Upper

83 100

131 201.8 5.3 15.9#

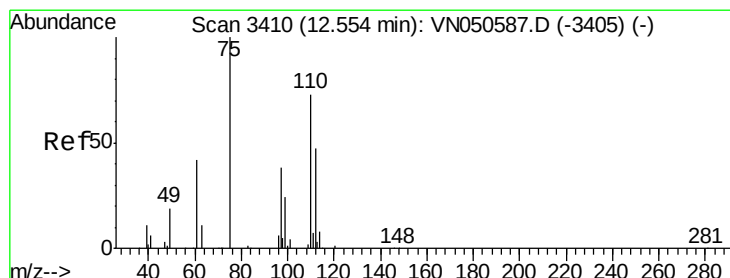
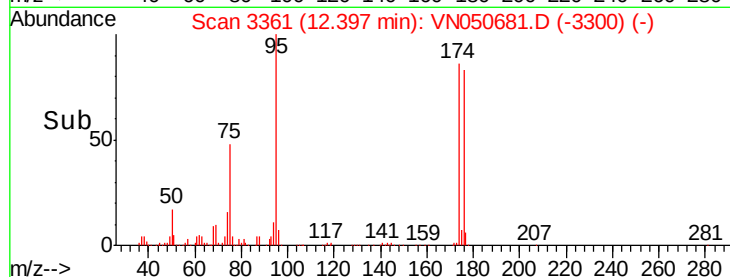
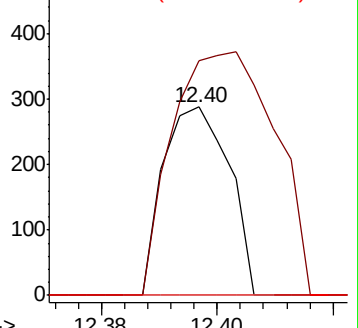
85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 35.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050681.D

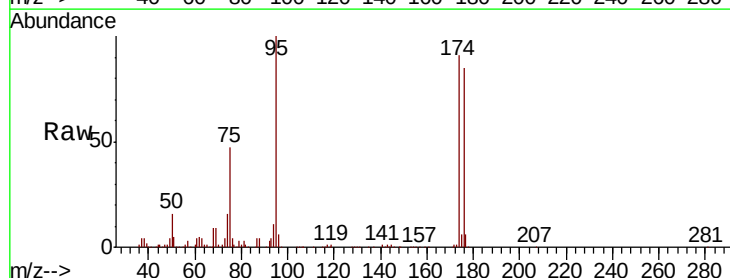
Acq: 16 Aug 2018 3:11

Tgt Ion: 75 Resp: 178301

Ion Ratio Lower Upper

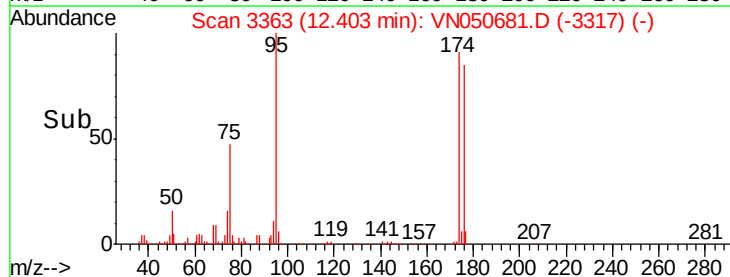
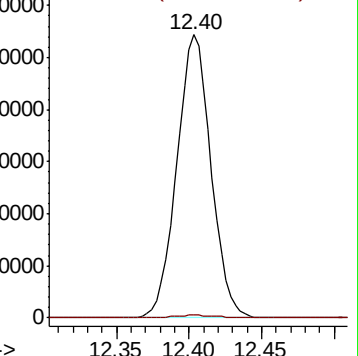
75 100

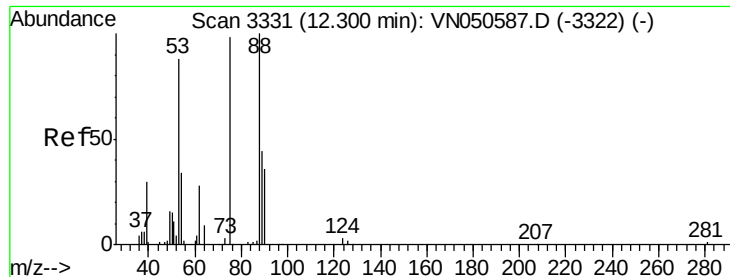
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

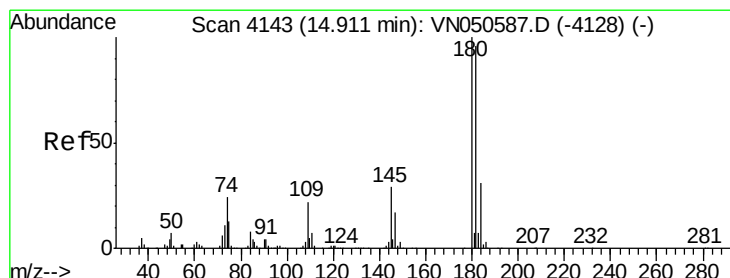
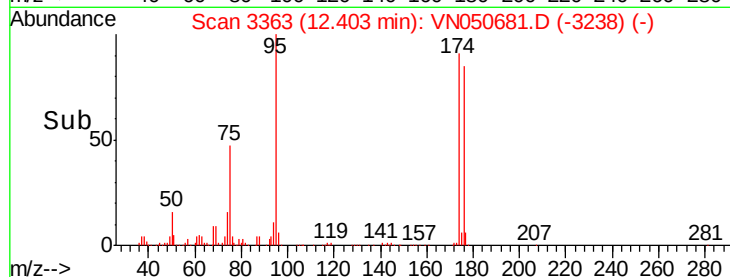
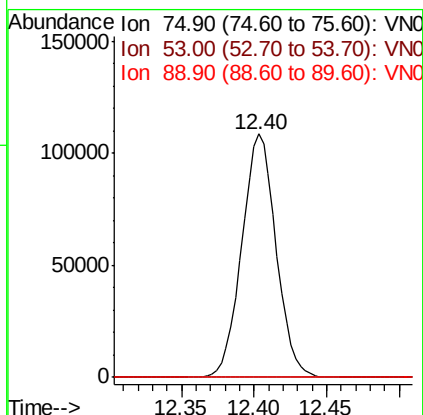
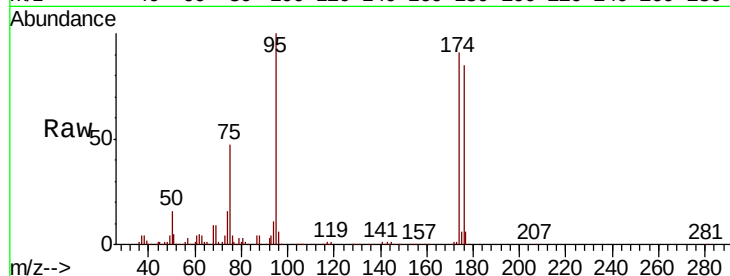




#81
trans-1,4-Dichloro-2-butene
Concen: 128.48 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

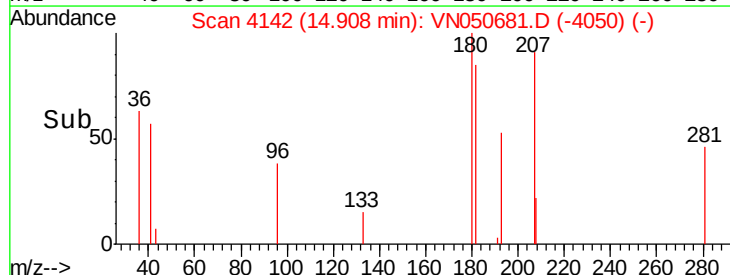
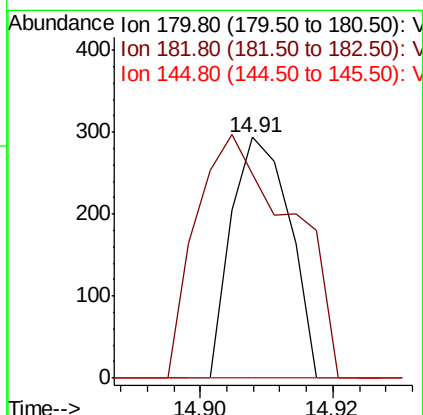
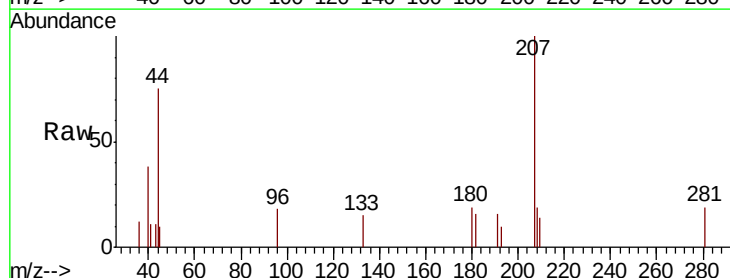
Instrument :
MSVOA_N
ClientSampled :
TP-2

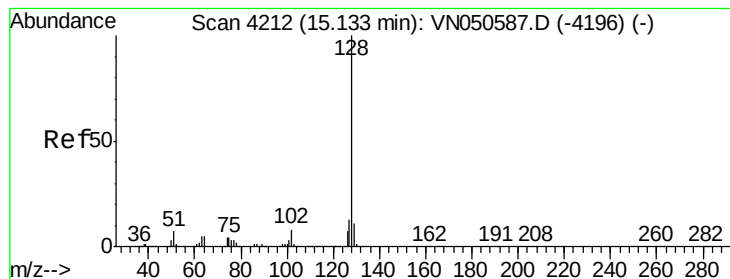
Tot Ion: 75 Resp: 178301
Ion Ratio Lower Upper
75 100
53 0.2 72.2 108.2#
89 0.0 36.3 54.5#



#93
1,2,4-Trichlorobenzene
Concen: 2.70 ug/l
RT: 14.91 min Scan# 4142
Delta R.T. -0.00 min
Lab File: VN050681.D
Acq: 16 Aug 2018 3:11

Tgt Ion: 180 Resp: 179
Ion Ratio Lower Upper
180 100
182 166.5 47.9 143.7#
145 0.0 14.4 43.4#





#95

Naphthalene

Concen: 4.59 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

Instrument :

MSVOA_N

ClientSampled :

TP-2

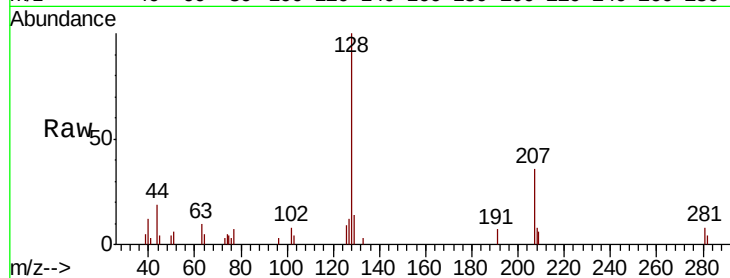
Tot Ion:128 Resp: 9433

Ion Ratio Lower Upper

128 100

127 13.7 10.3 15.5

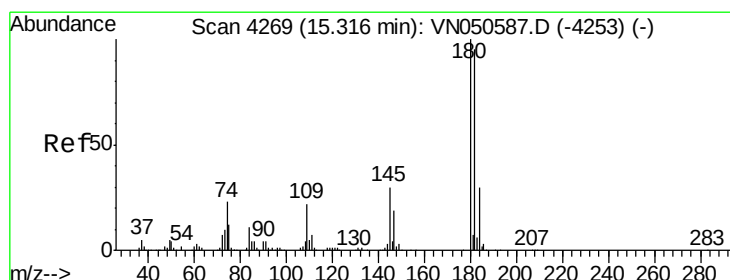
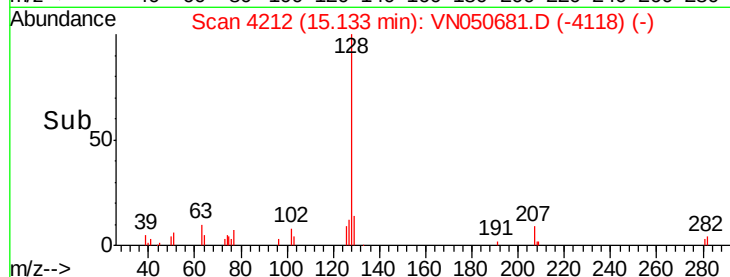
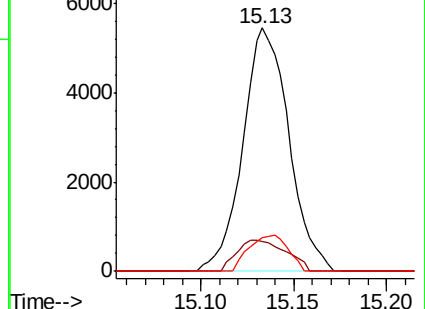
129 12.6 8.5 12.7



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: 1.98 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050681.D

Acq: 16 Aug 2018 3:11

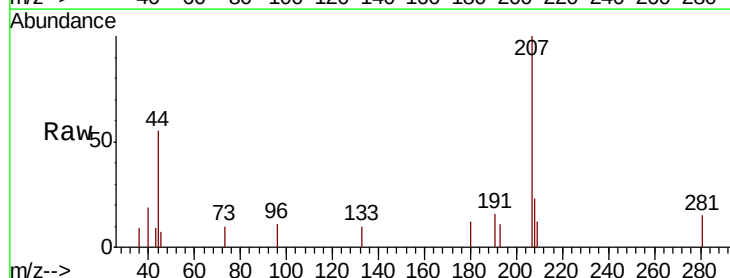
Tgt Ion:180 Resp: 215

Ion Ratio Lower Upper

180 100

182 14.0 47.3 141.8#

145 34.0 14.6 44.0



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

