

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092519\
 Data File : VN058363.D
 Acq On : 25 Sep 2019 13:42
 Operator : JC/SP
 Sample : K5010-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BSP-1

Quant Time: Sep 26 01:10:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	471448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	784931	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	672377	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	265859	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	347133	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
35) Dibromofluoromethane	7.57	113	238652	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
50) Toluene-d8	10.09	98	989205	53.21	ug/l	0.00
Spiked Amount			Recovery	=	106.42%	
62) 4-Bromofluorobenzene	12.41	95	316680	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	

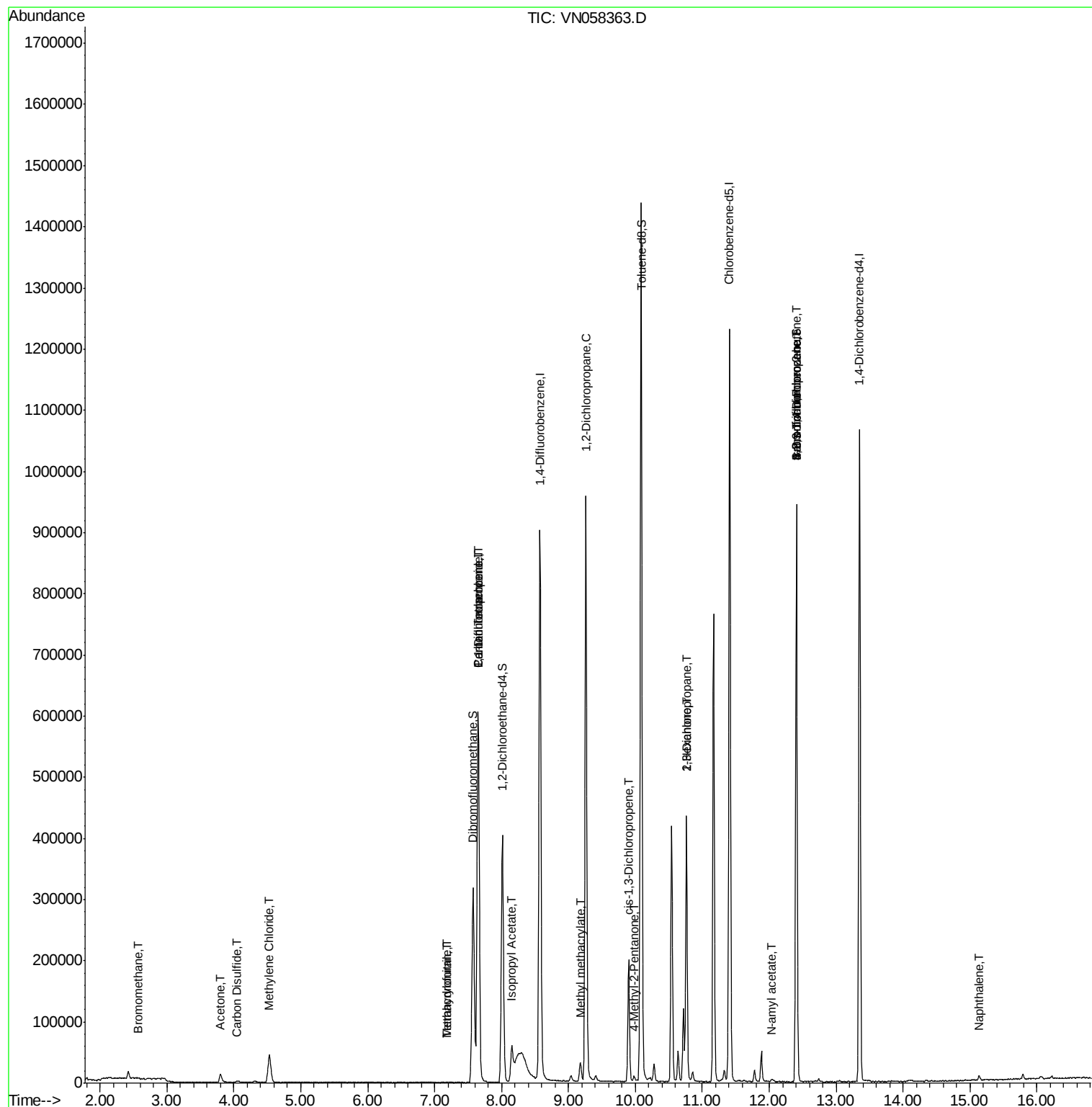
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	481	Below Cal	#	42
5) Bromomethane	2.57	94	433	0.969	ug/l #	78
6) Chloroethane	2.66	64	102	Below Cal	#	44
16) Acetone	3.80	43	24217	10.865	ug/l	94
17) Carbon Disulfide	4.03	76	474	0.387	ug/l #	74
20) Methylene Chloride	4.53	84	32787	8.217	ug/l	94
29) Tetrahydrofuran	7.19	42	455	0.243	ug/l #	35
31) Cyclohexane	7.65	56	11921	Below Cal	#	32
36) 1,1-Dichloropropene	7.65	75	40273	7.115	ug/l #	52
38) Carbon Tetrachloride	7.65	117	47550	8.357	ug/l #	16
41) Methacrylonitrile	7.18	41	31	0.921	ug/l #	100
43) Isopropyl Acetate	8.15	43	88781	8.092	ug/l #	85
45) 1,2-Dichloropropane	9.26	63	1143	0.221	ug/l #	45
48) Methyl methacrylate	9.18	41	5095	1.023	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	4986	0.856	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	34421	4.628	ug/l #	68
57) 1,3-Dichloropropane	10.76	76	4290	0.519	ug/l #	43
59) 2-Hexanone	10.76	43	66832	15.442	ug/l #	53
71) Bromoform	12.40	173	1109	3.919	ug/l #	1
74) N-amyl acetate	12.04	43	4050	0.582	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	173884	36.545	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	173884	101.975	ug/l #	5
95) Naphthalene	15.14	128	6801	0.536	ug/l #	94

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

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

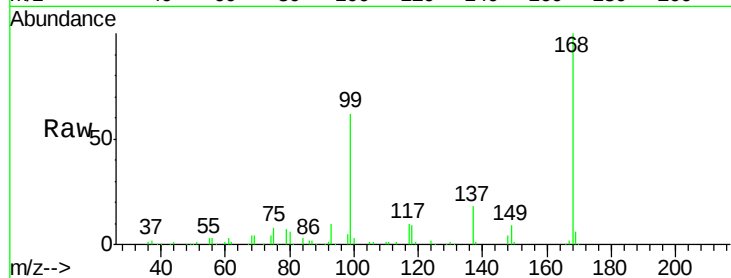
BSP-1

Tot Ion:168 Resp: 471448

Ion Ratio Lower Upper

168 100

99 61.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

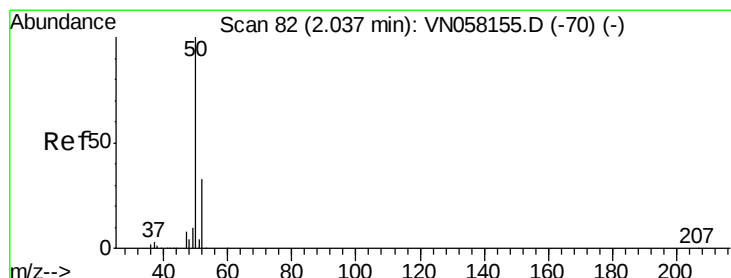
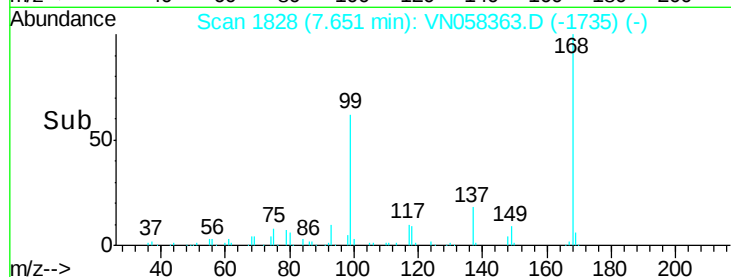
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058363.D

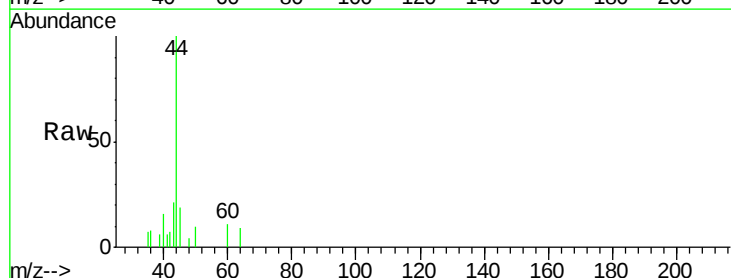
Acq: 25 Sep 2019 13:42

Tgt Ion: 50 Resp: 481

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

400

300

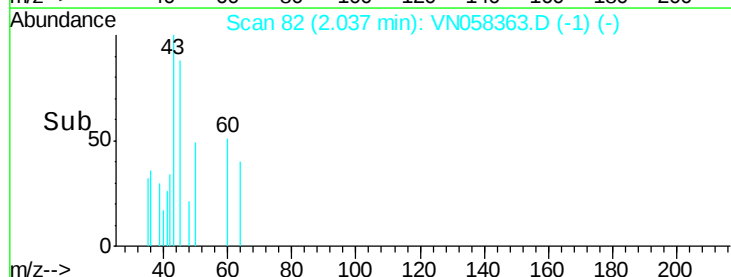
200

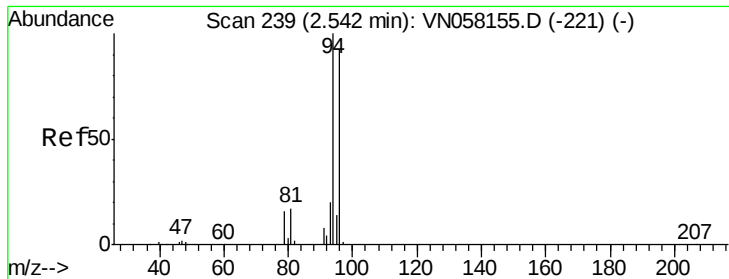
100

0

2.02 2.04 2.06

Time-->





#5

Bromomethane

Concen: 0.969 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.03 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

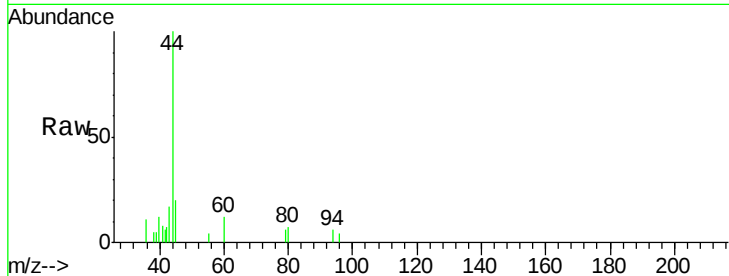
BSP-1

Tot Ion: 94 Resp: 433

Ion Ratio Lower Upper

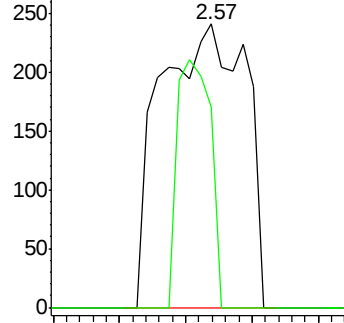
94 100

96 70.5 73.3 109.9#

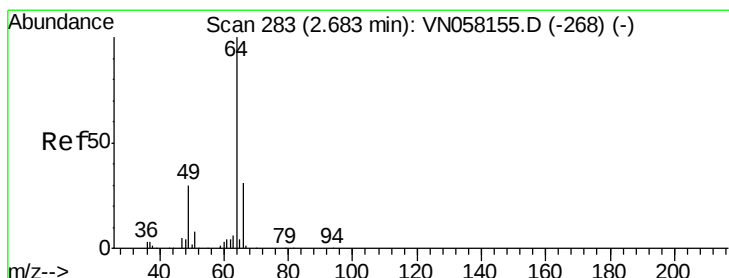
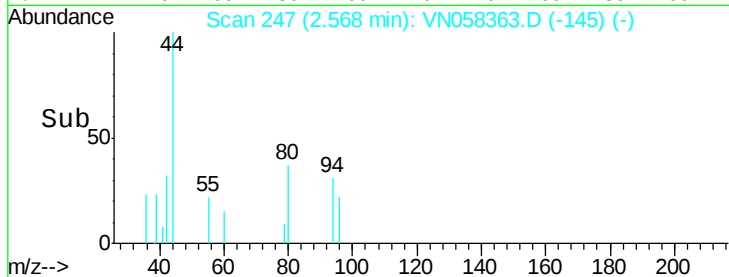


Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 2.66 min Scan# 277

Delta R.T. -0.02 min

Lab File: VN058363.D

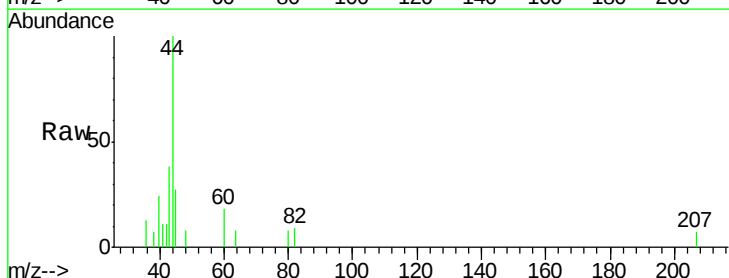
Acq: 25 Sep 2019 13:42

Tgt Ion: 64 Resp: 102

Ion Ratio Lower Upper

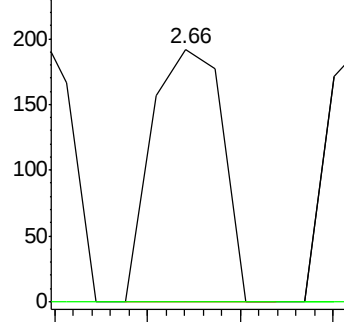
64 100

66 0.0 24.6 37.0#

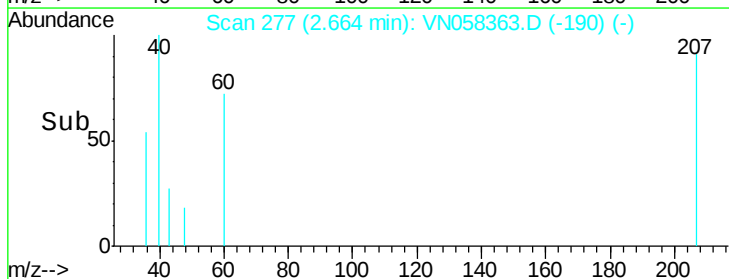


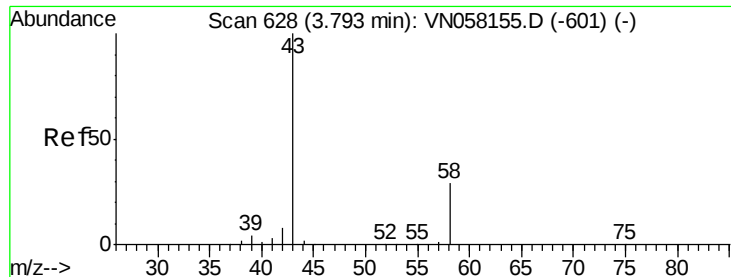
Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO



Time-->





#16

Acetone

Concen: 10.865 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

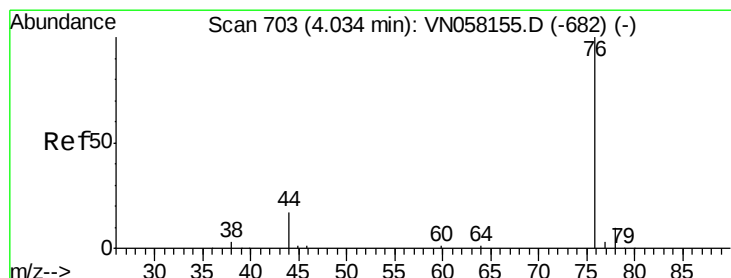
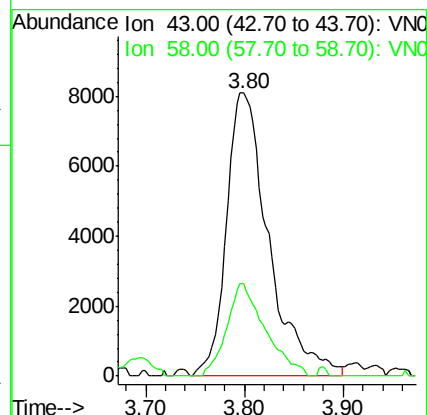
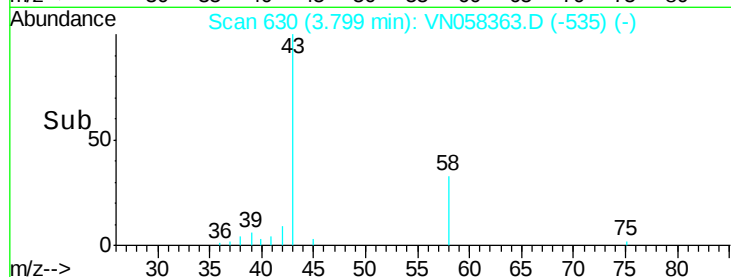
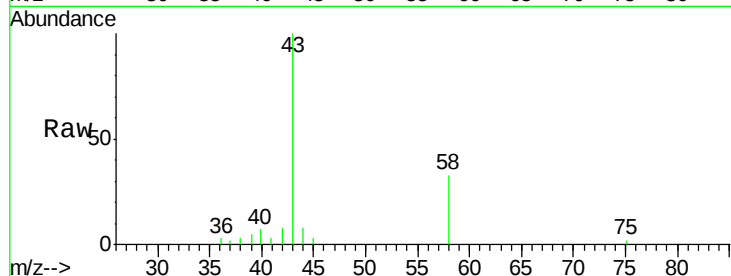
BSP-1

Tot Ion: 43.00 Resp: 24217

Ion Ratio Lower Upper

43 100

58 32.6 23.4 35.2



#17

Carbon Disulfide

Concen: 0.387 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.01 min

Lab File: VN058363.D

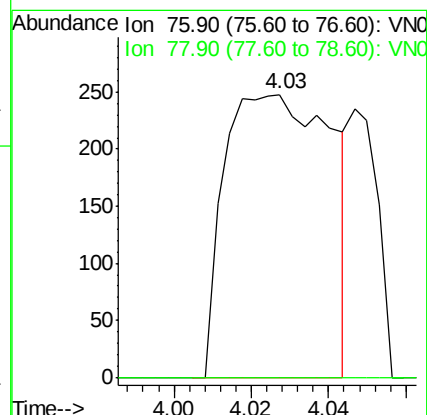
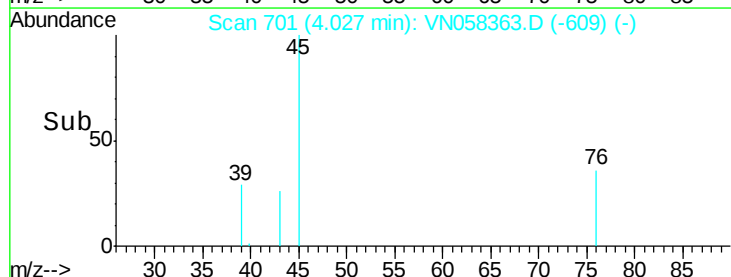
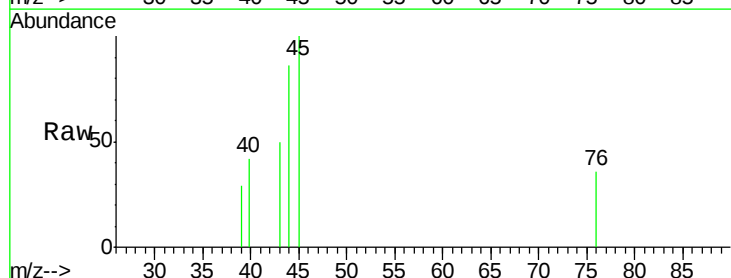
Acq: 25 Sep 2019 13:42

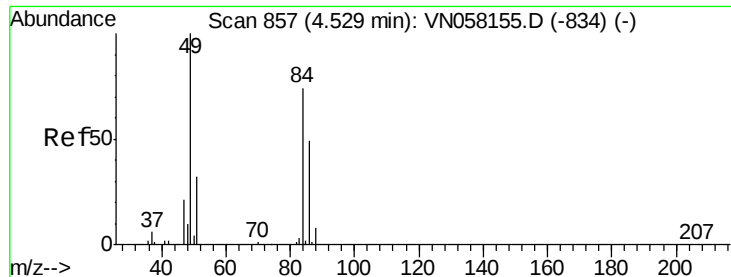
Tgt Ion: 76 Resp: 474

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#





#20

Methylene Chloride

Concen: 8.217 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.00 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :
MSVOA_N
ClientSampled :
BSP-1

Tot Ion: 84 Resp: 32787

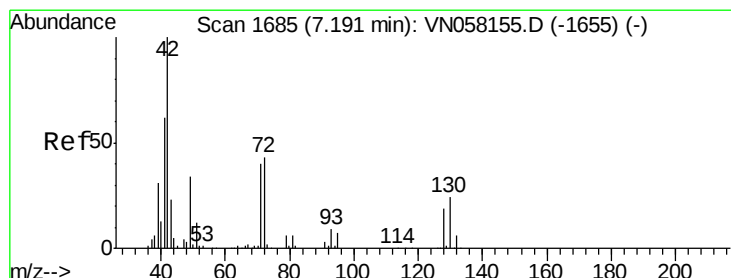
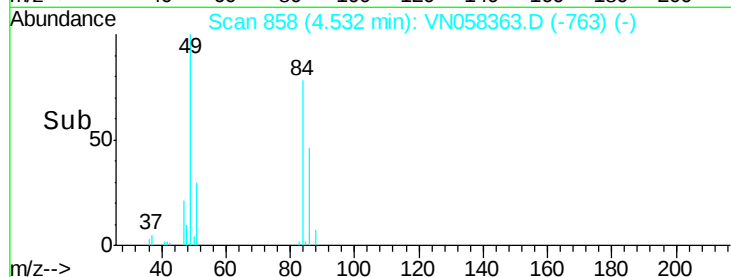
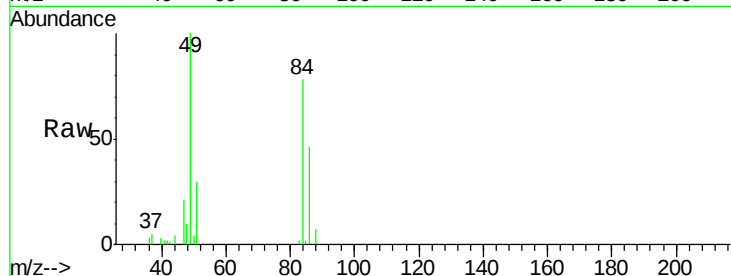
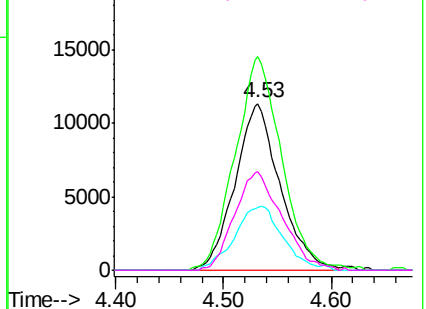
Ion	Ratio	Lower	Upper
84	100		
49	128.0	107.5	161.3
51	37.9	33.9	50.9
86	59.3	52.4	78.6

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



#29

Tetrahydrofuran

Concen: 0.243 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

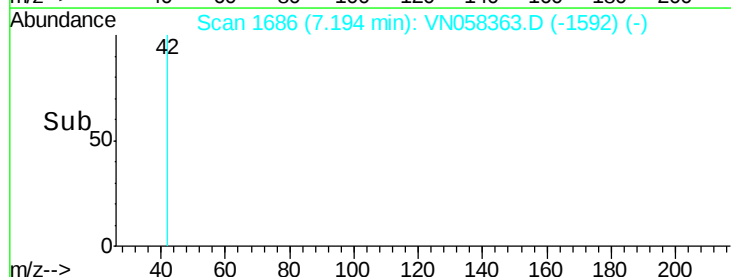
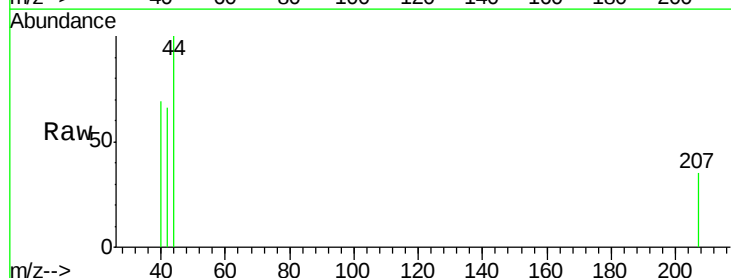
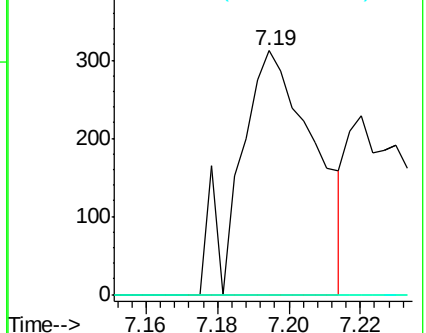
Tgt Ion: 42 Resp: 455

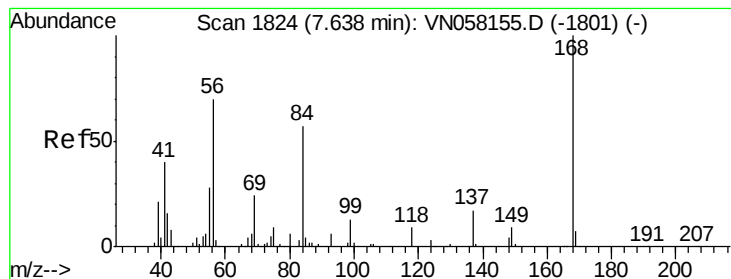
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.8	50.6#
71	0.0	31.4	47.0#

Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

BSP-1

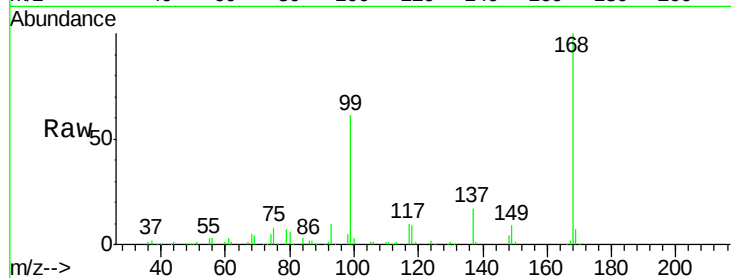
Tot Ion: 56 Resp: 11921

Ion Ratio Lower Upper

56 100

69 140.8 27.3 40.9#

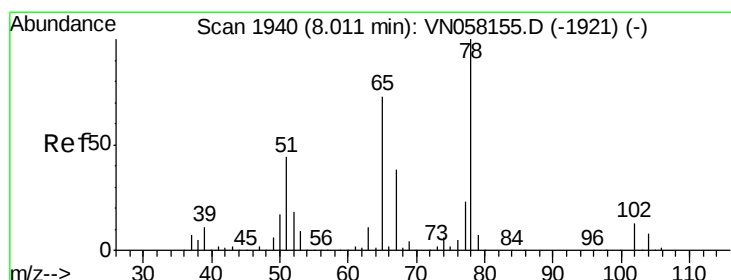
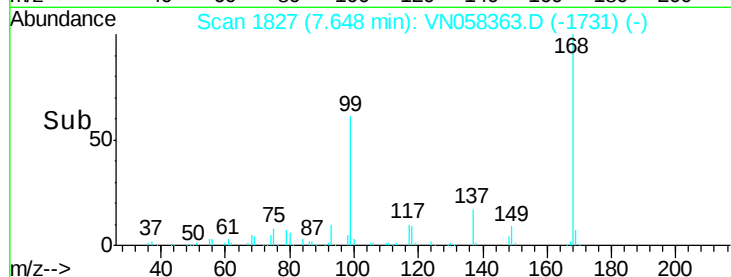
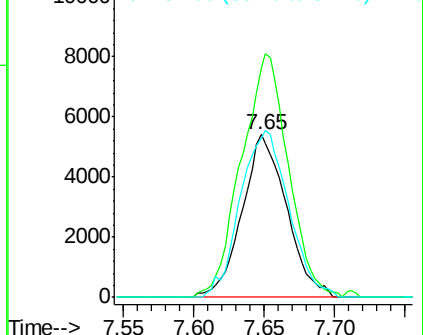
84 97.5 65.0 97.4#



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: 52.866 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058363.D

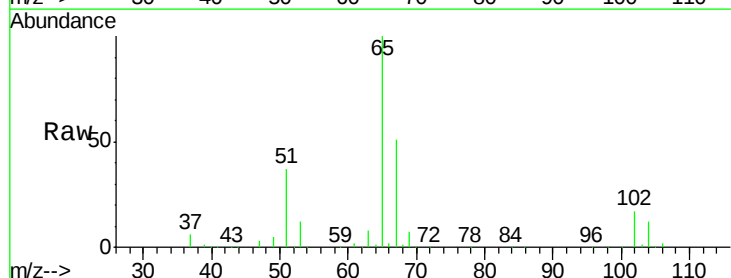
Acq: 25 Sep 2019 13:42

Tgt Ion: 65 Resp: 347133

Ion Ratio Lower Upper

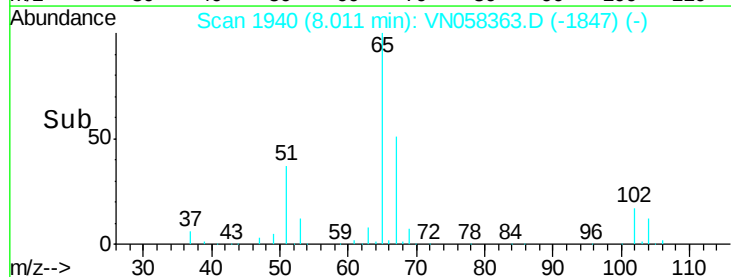
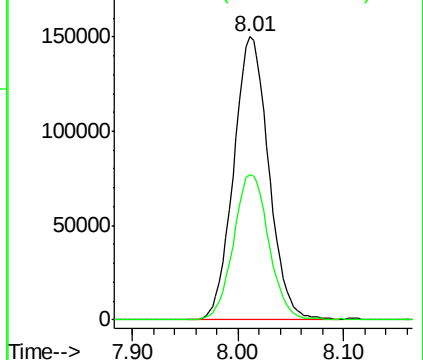
65 100

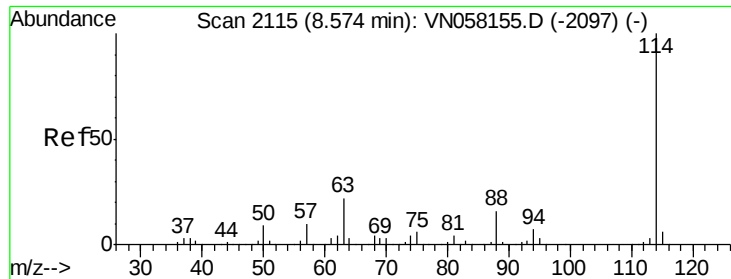
67 51.7 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

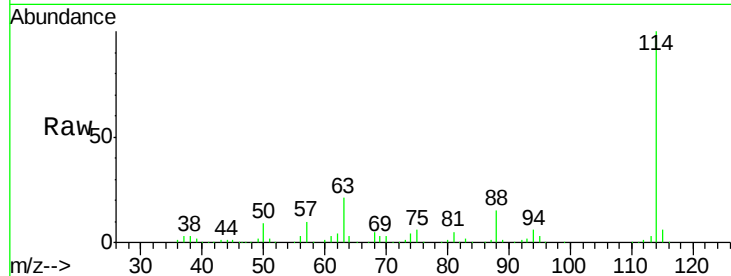




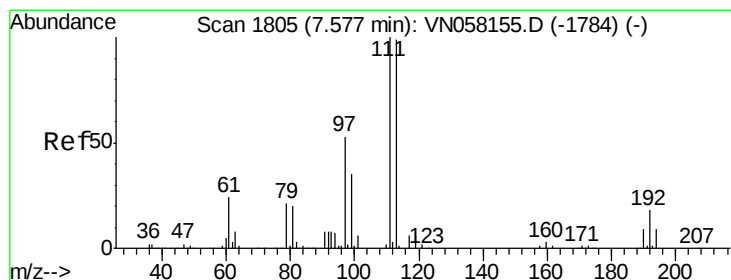
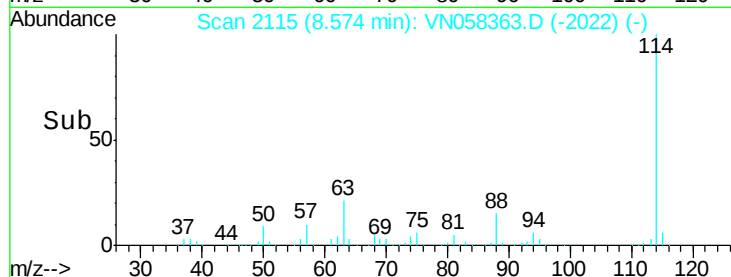
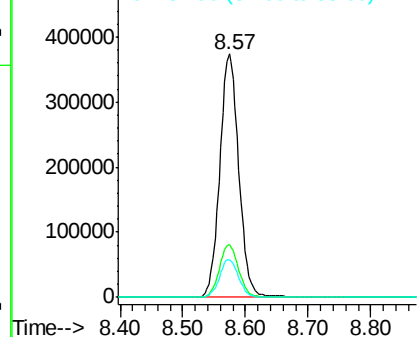
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058363.D
 Acq: 25 Sep 2019 13:42

Instrument :
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 BSP-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	44.2
88	15.5	0.0	31.6

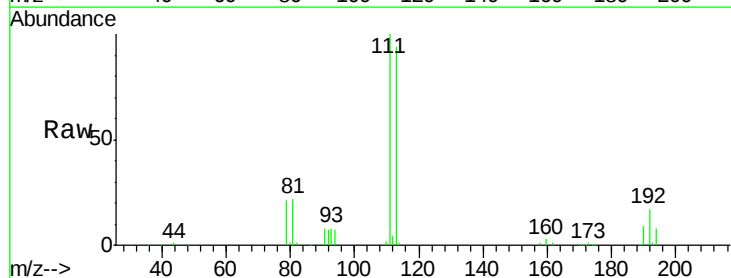


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

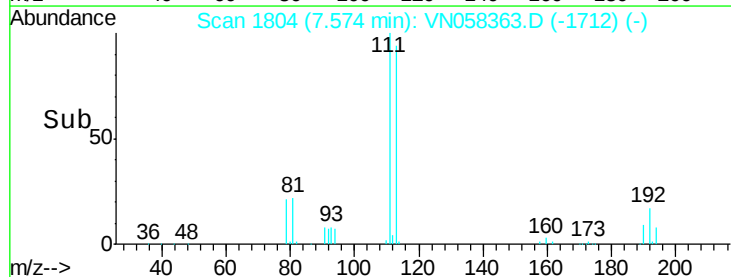
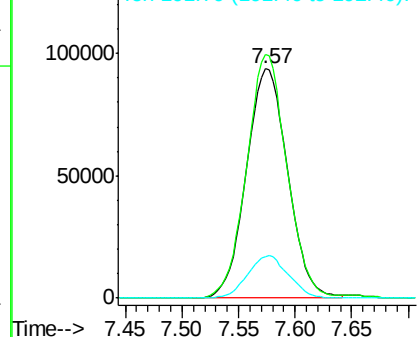


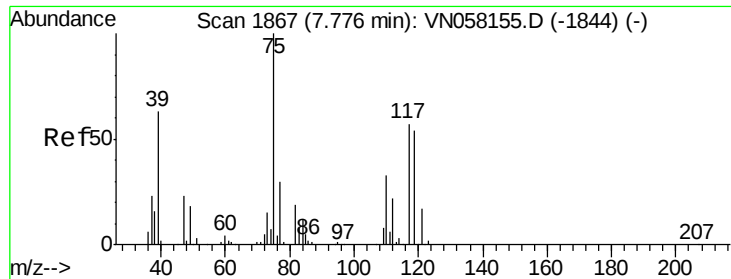
#35
 Dibromofluoromethane
 Concen: 50.014 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058363.D
 Acq: 25 Sep 2019 13:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.8	122.6
192	18.3	14.5	21.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 7.115 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

BSP-1

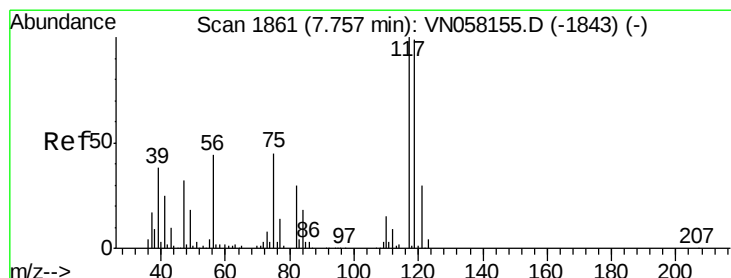
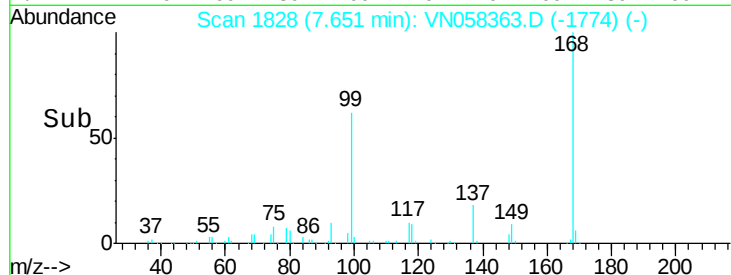
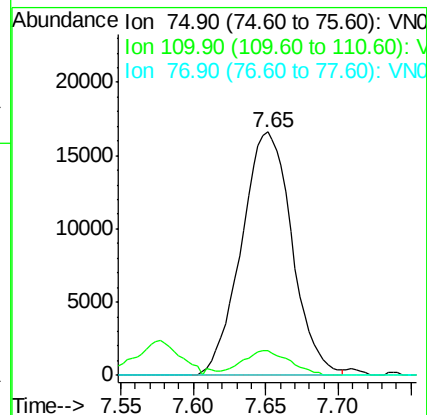
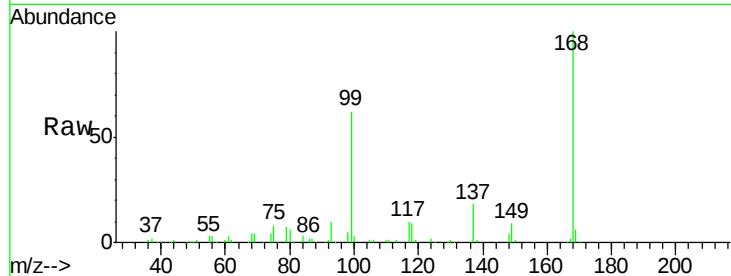
Tot Ion: 75 Resp: 40273

Ion Ratio Lower Upper

75 100

110 9.5 16.6 49.7#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 8.357 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

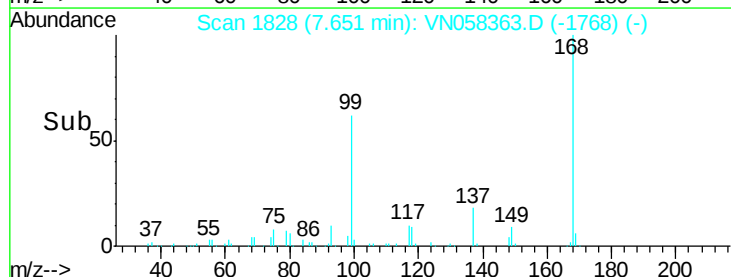
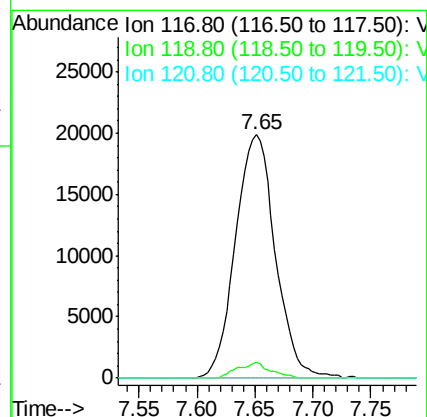
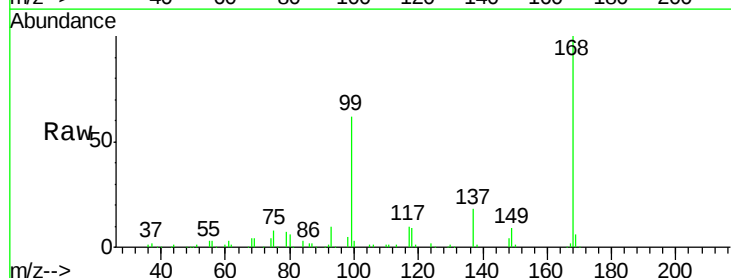
Tgt Ion: 117 Resp: 47550

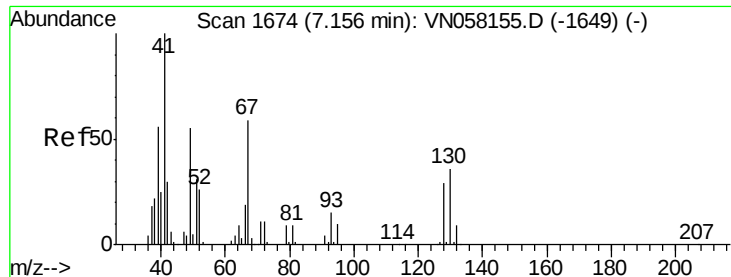
Ion Ratio Lower Upper

117 100

119 6.5 78.6 117.8#

121 0.0 24.1 36.1#

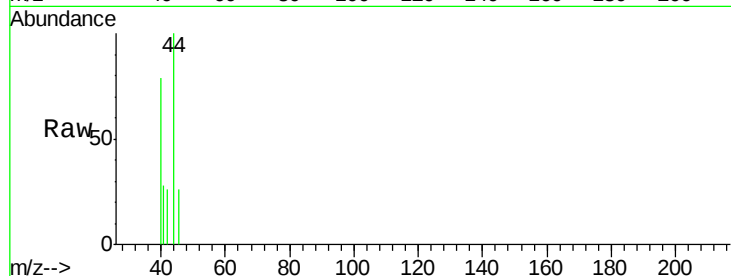




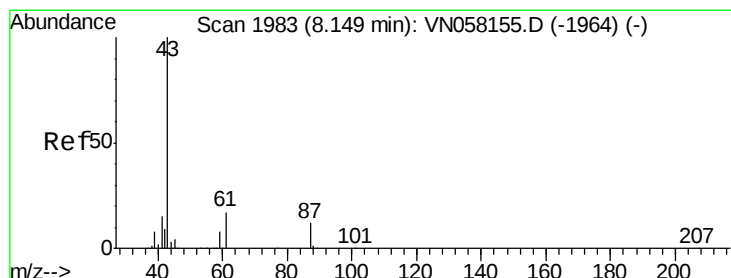
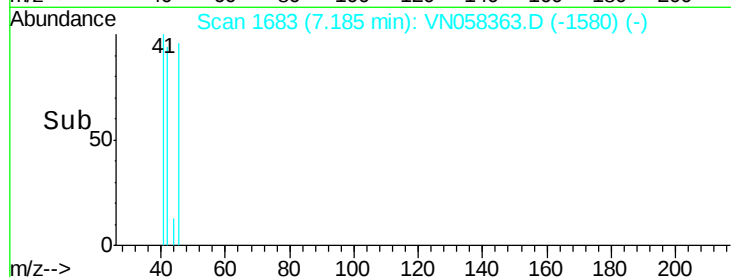
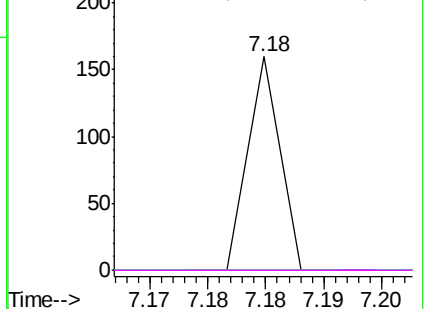
#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.03 min
Lab File: VN058363.D
Acq: 25 Sep 2019 13:42

Instrument :
MSVOA_N
ClientSampled :
BSP-1

Tot Ion:	41	Resp:	31
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

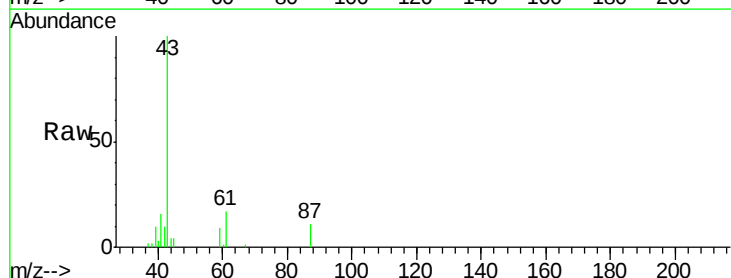


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

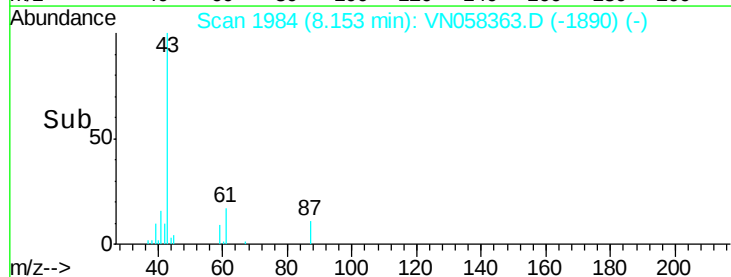
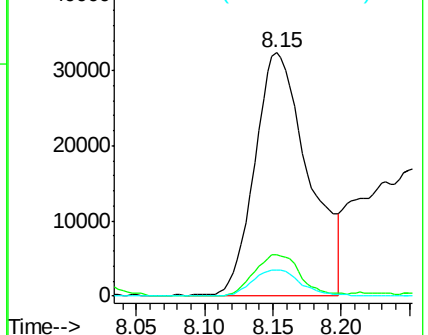


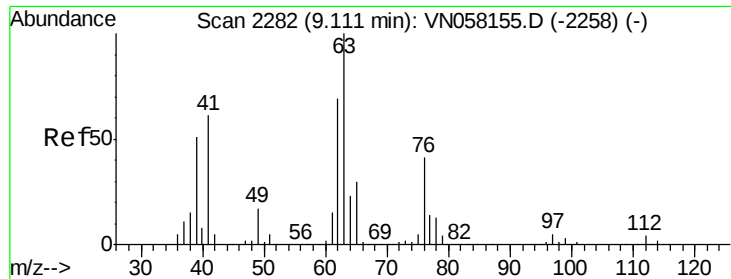
#43
Isopropyl Acetate
Concen: 8.092 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN058363.D
Acq: 25 Sep 2019 13:42

Tgt Ion:	43	Resp:	88781
Ion	Ratio	Lower	Upper
43	100		
61	14.7	19.7	29.5#
87	9.5	9.4	14.2



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





#45

1,2-Dichloropropane

Concen: 0.221 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

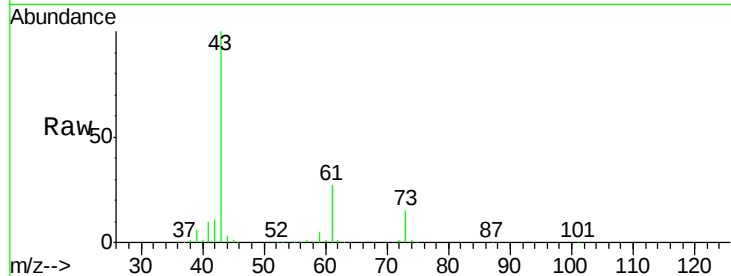
BSP-1

Tot Ion: 63 Resp: 1143

Ion Ratio Lower Upper

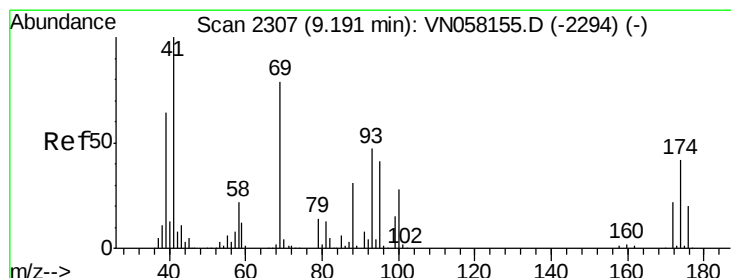
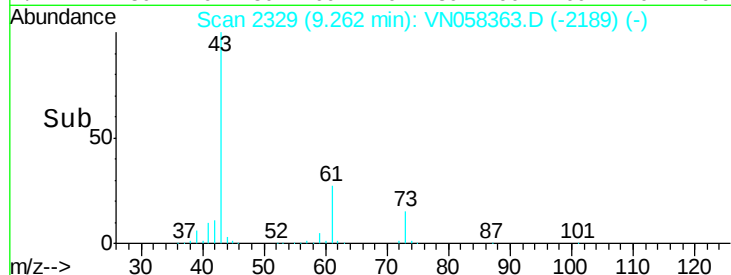
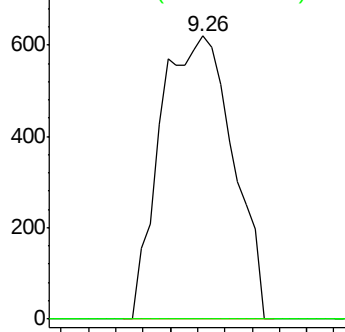
63 100

65 0.0 23.8 35.6#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.023 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

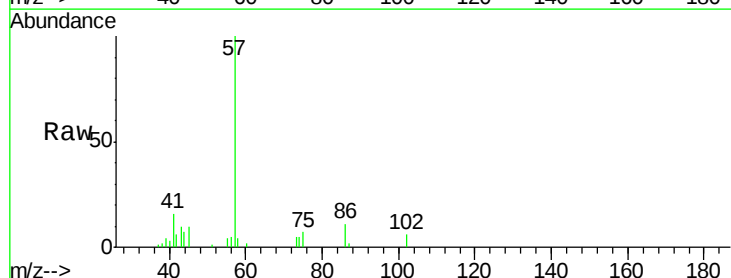
Tgt Ion: 41 Resp: 5095

Ion Ratio Lower Upper

41 100

69 0.0 62.5 93.7#

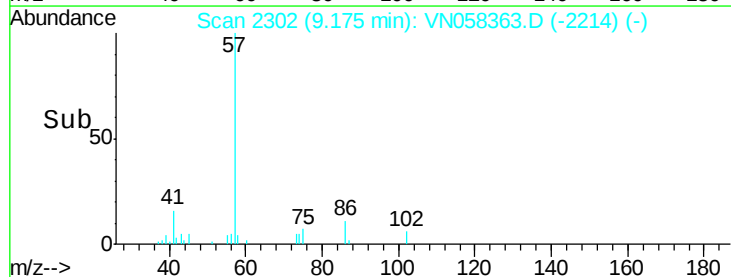
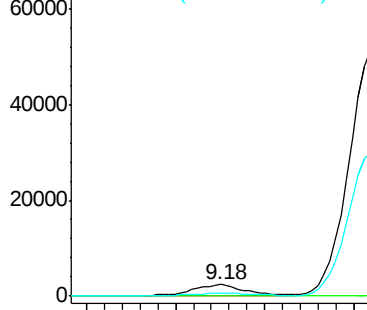
39 0.0 52.3 78.5#

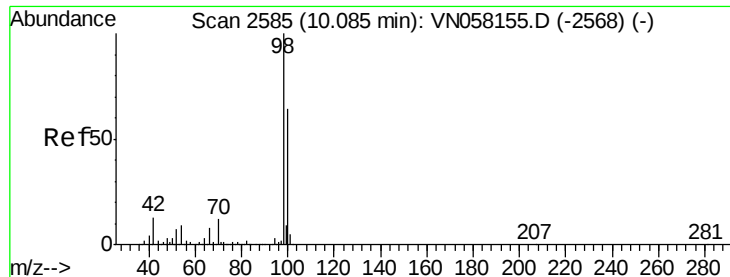


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 53.207 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampled :

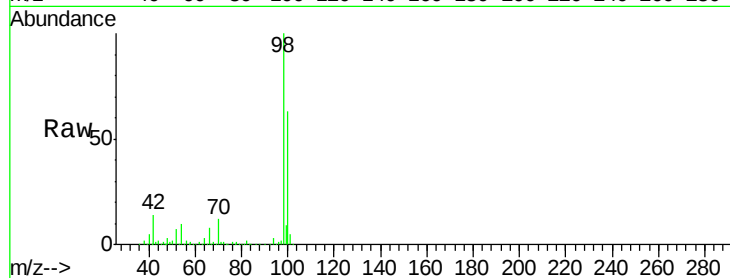
BSP-1

Tot Ion: 98 Resp: 989205

Ion Ratio Lower Upper

98 100

100 63.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

600000

500000

400000

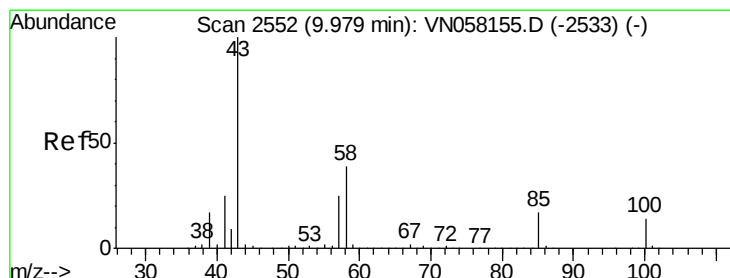
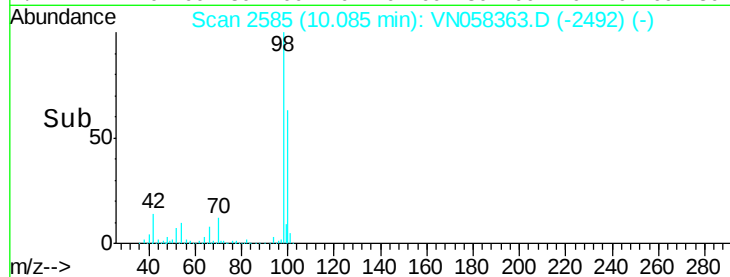
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.856 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058363.D

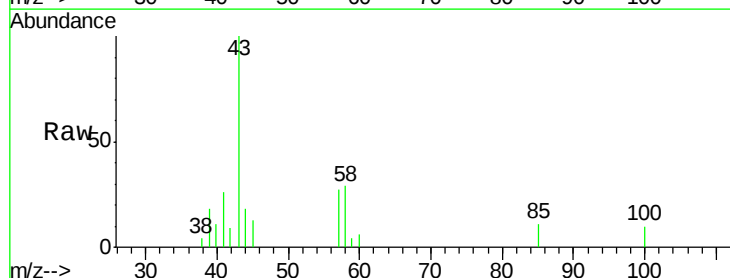
Acq: 25 Sep 2019 13:42

Tgt Ion: 43 Resp: 4986

Ion Ratio Lower Upper

43 100

58 42.2 30.2 45.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

4000

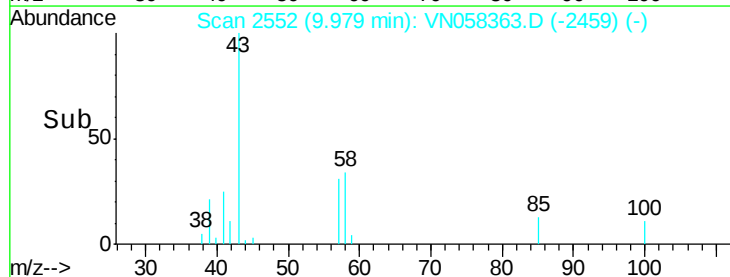
3000

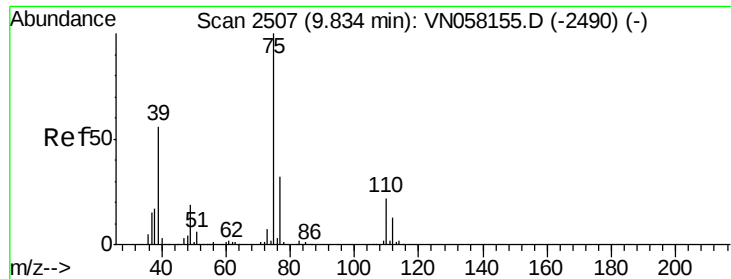
2000

1000

0

Time-->



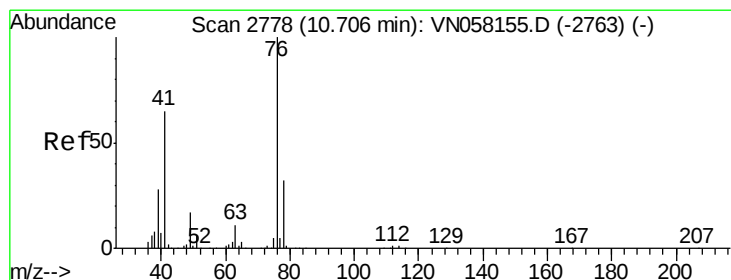
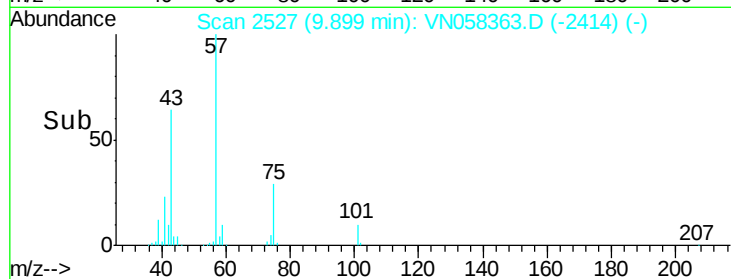
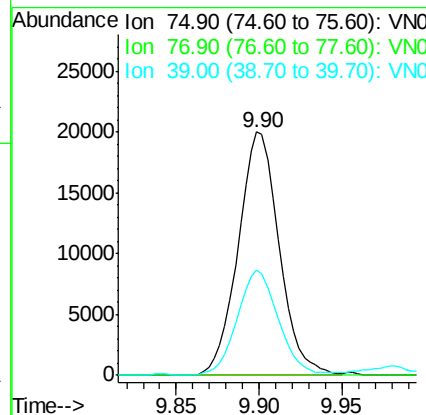
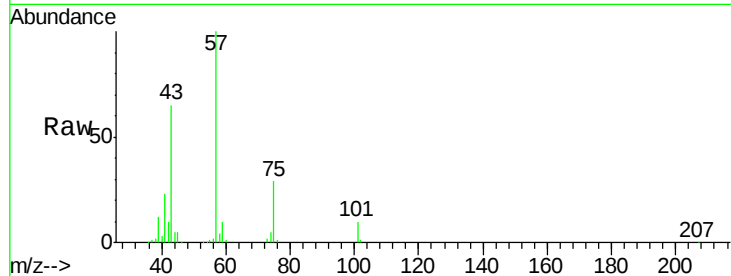


#54

cis-1,3-Dichloropropene
 Concen: 4.628 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN058363.D
 Acq: 25 Sep 2019 13:42

Instrument :
 MSVOA_N
 ClientSampled :
 BSP-1

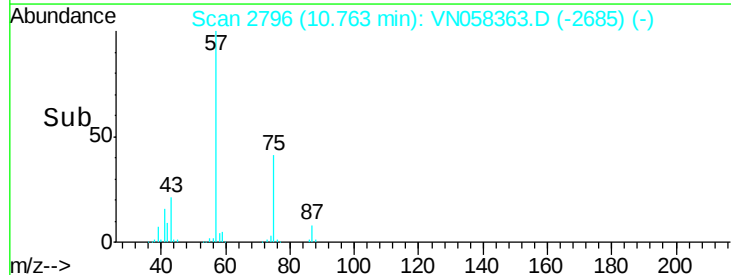
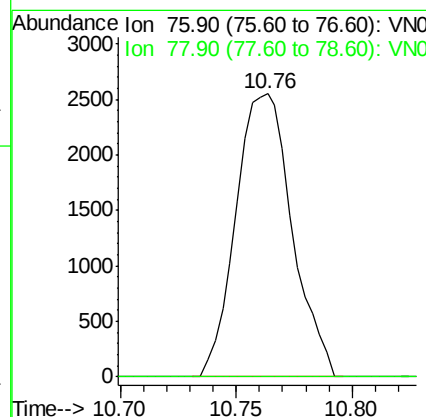
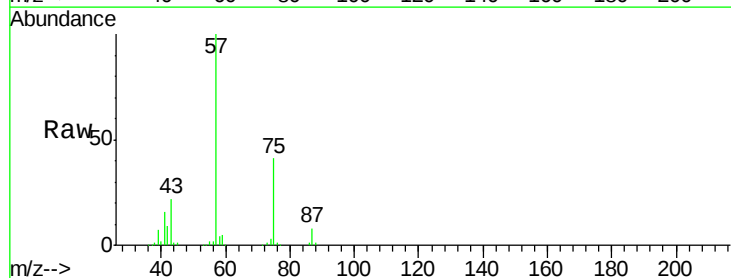
Tot Ion: 75 Resp: 34421
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 43.3 45.0 67.6#

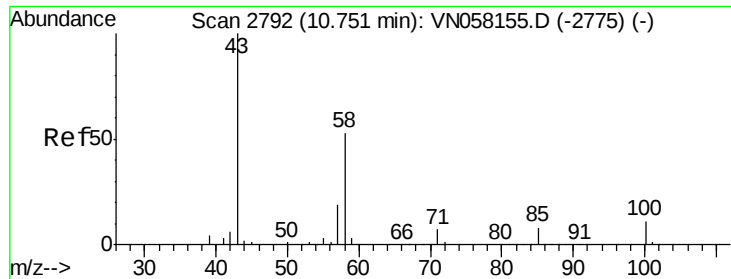


#57

1,3-Dichloropropane
 Concen: 0.519 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058363.D
 Acq: 25 Sep 2019 13:42

Tgt Ion: 76 Resp: 4290
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#





#59

2-Hexanone

Concen: 15.442 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

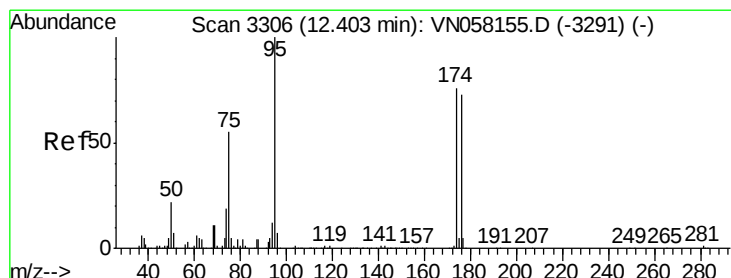
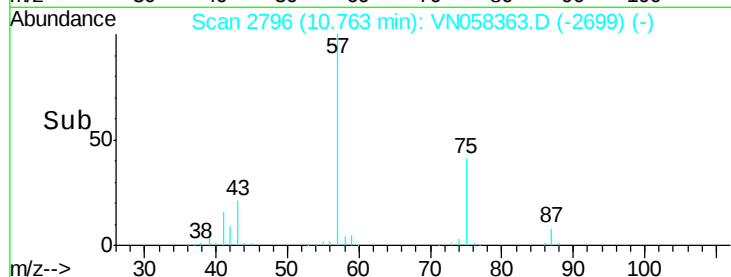
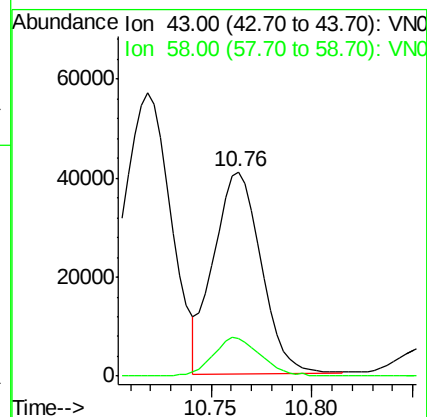
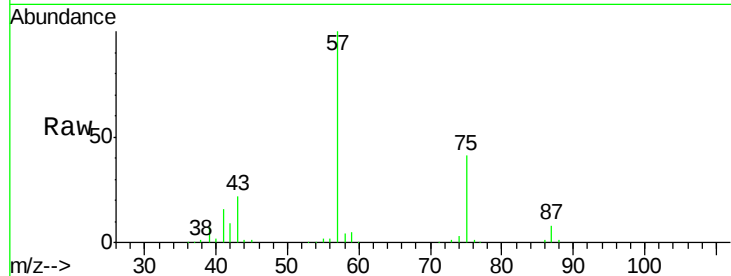
BSP-1

Tot Ion: 43 Resp: 66832

Ion Ratio Lower Upper

43 100

58 19.3 26.0 78.0#



#62

4-Bromofluorobenzene

Concen: 45.855 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

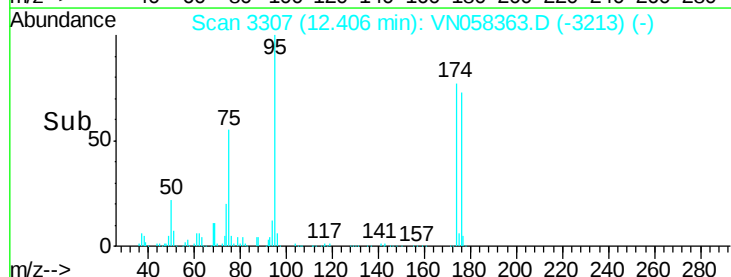
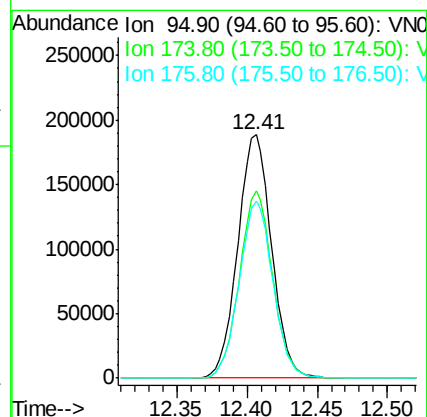
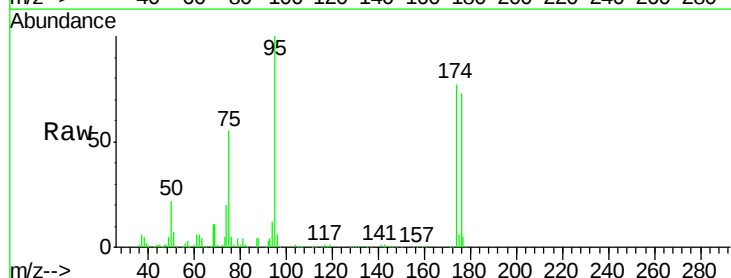
Tgt Ion: 95 Resp: 316680

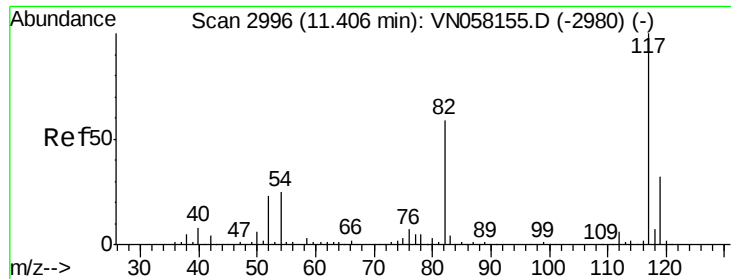
Ion Ratio Lower Upper

95 100

174 75.5 0.0 152.2

176 72.9 0.0 148.0

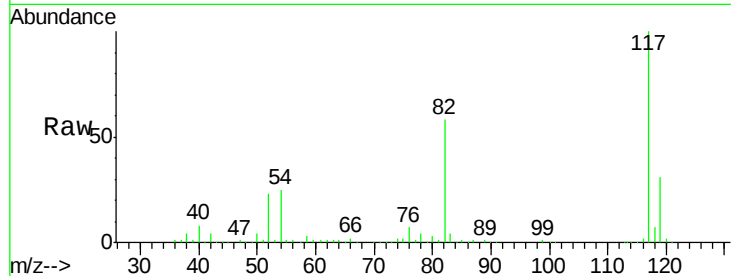




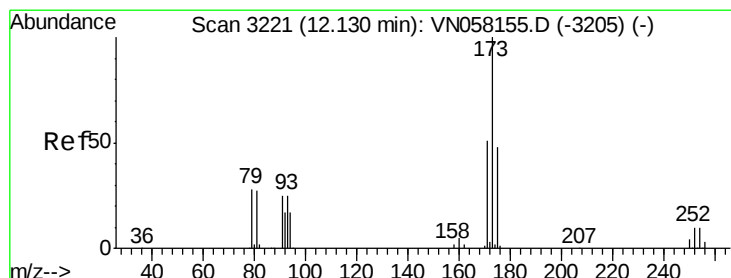
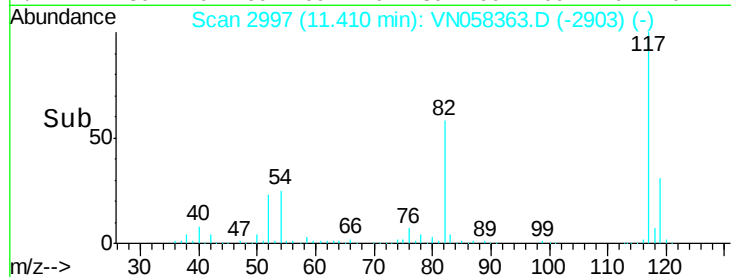
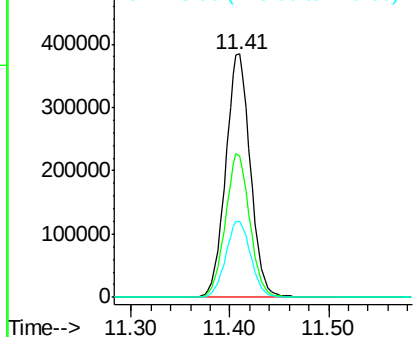
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058363.D
Acq: 25 Sep 2019 13:42

Instrument :
MSVOA_N
ClientSampled :
BSP-1

Tot Ion:117 Resp: 672377
Ion Ratio Lower Upper
117 100
82 58.1 46.9 70.3
119 31.3 25.3 37.9

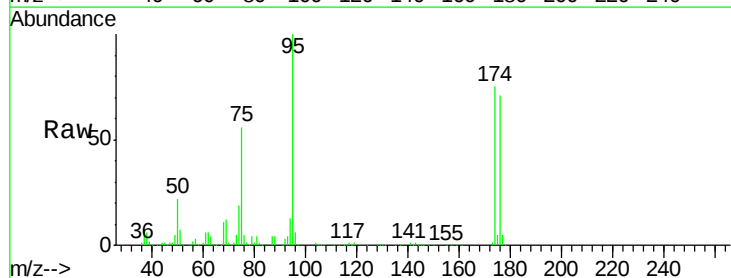


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

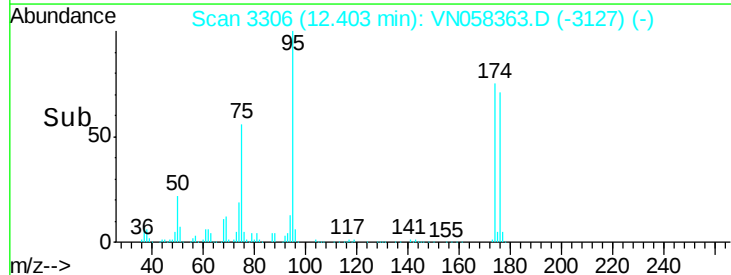
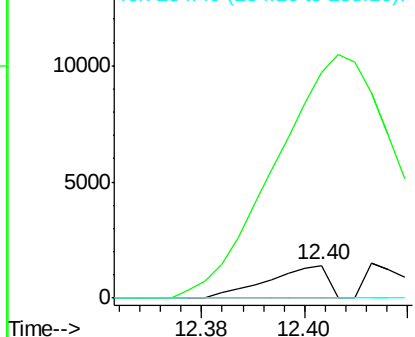


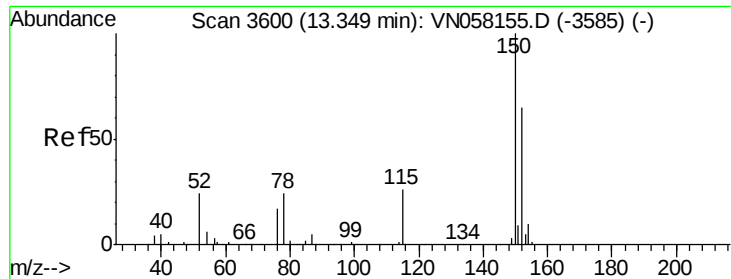
#71
Bromoform
Concen: 3.919 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058363.D
Acq: 25 Sep 2019 13:42

Tgt Ion:173 Resp: 1109
Ion Ratio Lower Upper
173 100
175 1324.8 24.2 72.6#
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# 3601

Delta R.T. 0.00 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

BSP-1

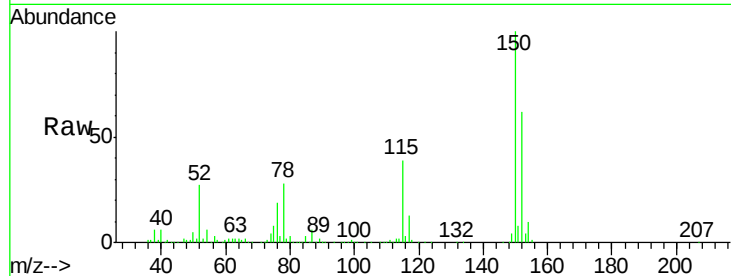
Tot Ion:152 Resp: 265859

Ion Ratio Lower Upper

152 100

115 62.1 30.1 90.3

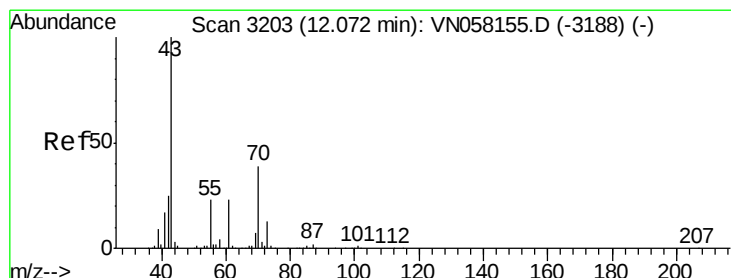
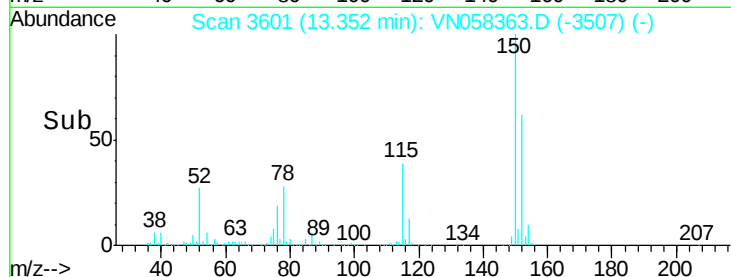
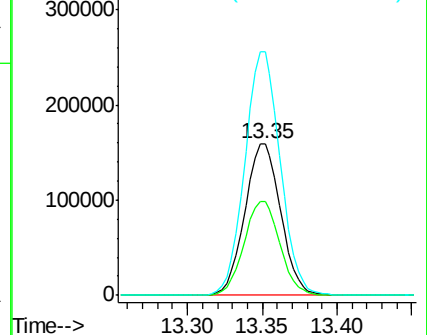
150 158.9 0.0 346.4



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: 0.582 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Tgt Ion: 43 Resp: 4050

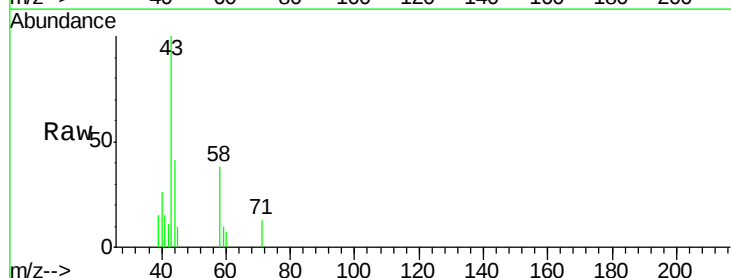
Ion Ratio Lower Upper

43 100

70 0.0 31.0 46.6#

55 2.4 18.5 27.7#

61 0.0 18.2 27.2#

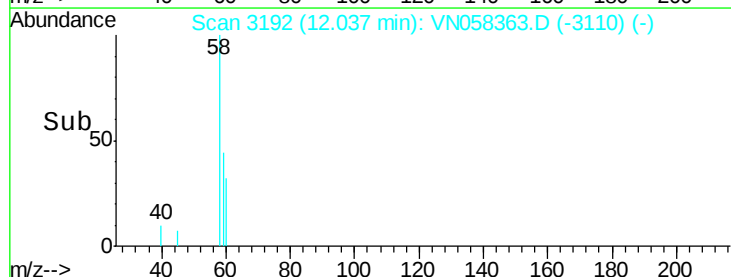
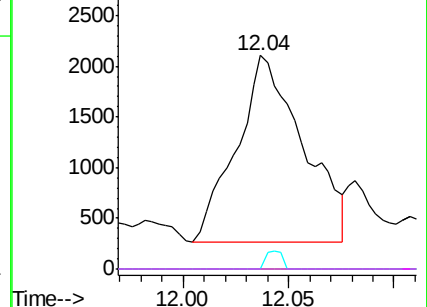


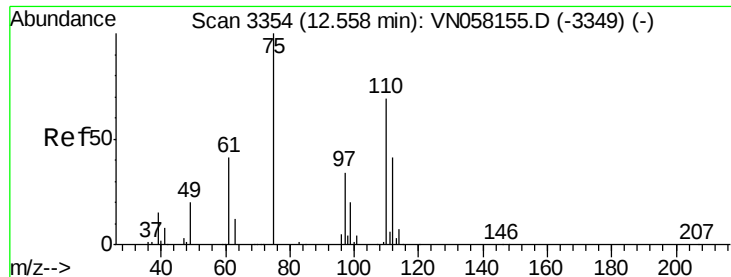
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 36.545 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

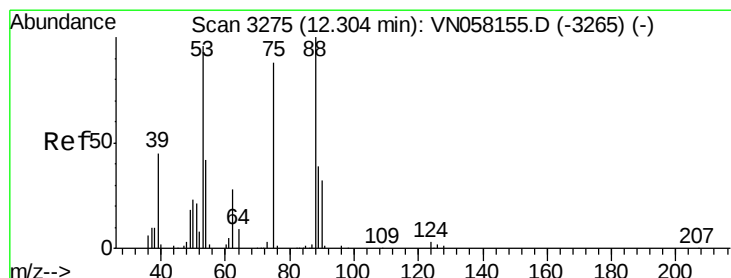
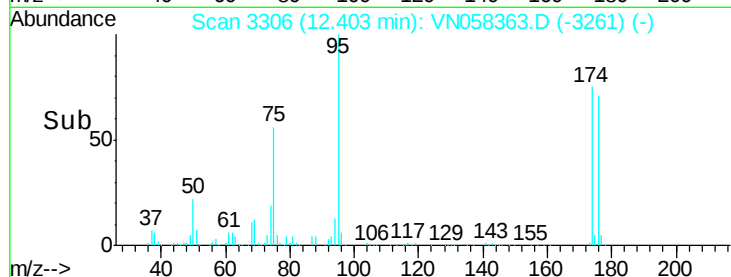
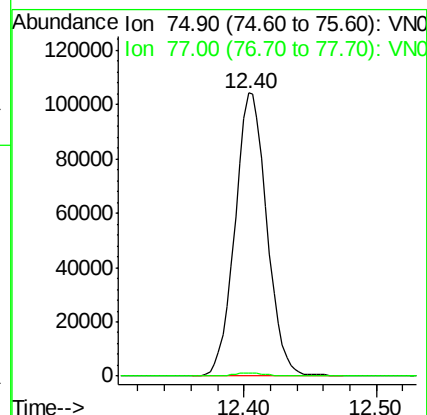
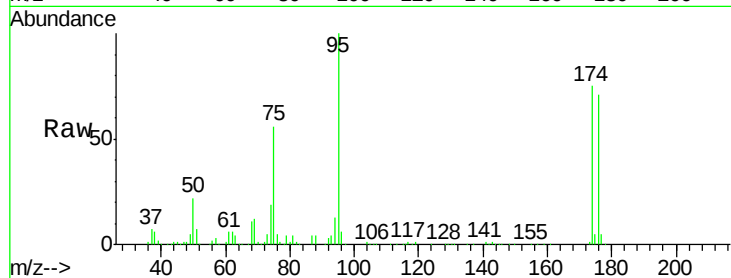
BSP-1

Tot Ion: 75 Resp: 173884

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 101.975 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

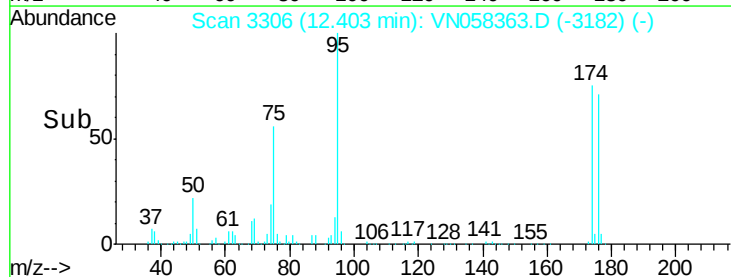
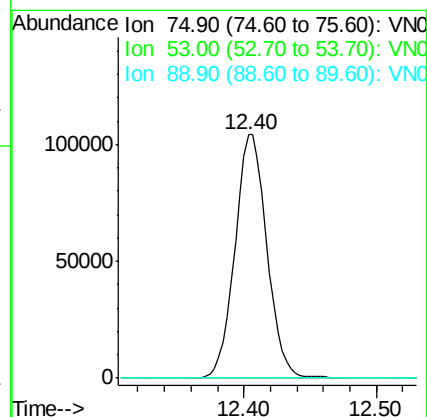
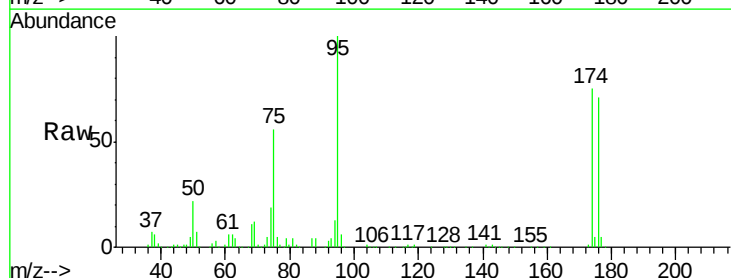
Tgt Ion: 75 Resp: 173884

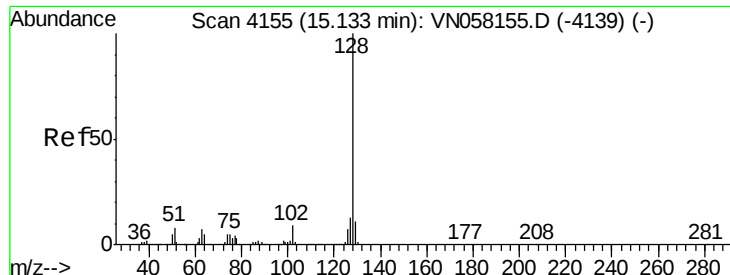
Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#





#95

Naphthalene

Concen: 0.536 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058363.D

Acq: 25 Sep 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

BSP-1

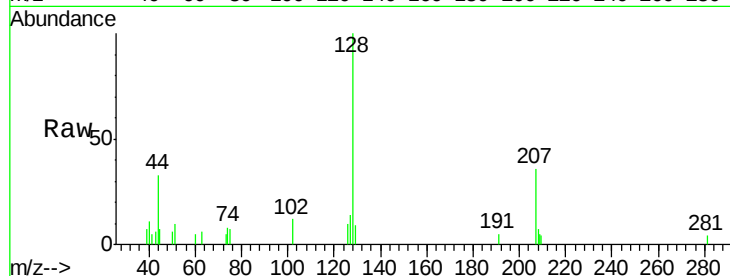
Tot Ion:128 Resp: 6801

Ion Ratio Lower Upper

128 100

127 13.4 10.2 15.2

129 6.4 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

