

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056022.D
 Acq On : 5 Jun 2019 22:38
 Operator : JC/SP
 Sample : K3180-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(JUNE)

Quant Time: Jun 06 04:30:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	56508	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	302608	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	250500	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	106829	30.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.47%
60) 4-Bromofluorobenzene	12.40	95	97276	26.20	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.33%
63) Toluene-d8	10.09	98	353679	31.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.73%

Target Compounds

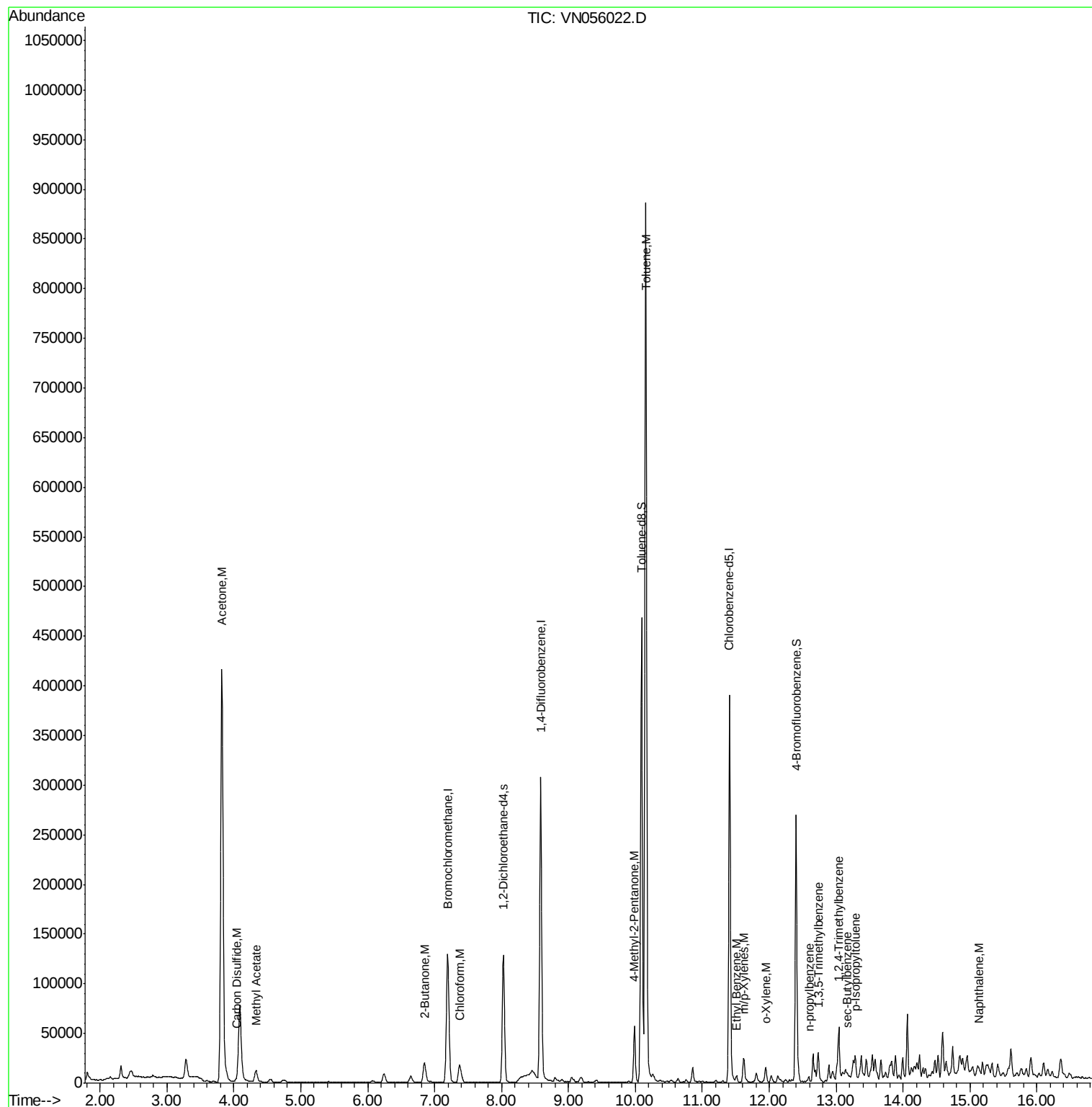
					Ovalue
12) Methyl Acetate	4.33	43	20962	5.914	ug/l 97
15) Acetone	3.82	58	231981	448.211	ug/l 98
16) Carbon Disulfide	4.04	76	6074	0.865	ug/l # 94
25) Chloroform	7.37	83	19569	3.561	ug/l 98
30) 2-Butanone	6.85	43	37615	17.456	ug/l # 74
58) 4-Methyl-2-Pentanone	9.99	43	39578	10.434	ug/l 97
62) Toluene	10.16	91	724020	53.540	ug/l 99
66) Ethyl Benzene	11.51	91	5646	0.392	ug/l 93
67) m/p-Xylenes	11.62	106	8192	1.486	ug/l 96
68) o-Xylene	11.95	106	4004	0.742	ug/l 99
74) n-propylbenzene	12.59	91	5884	0.395	ug/l 97
76) 1,3,5-Trimethylbenzene	12.73	105	11458	0.988	ug/l 96
80) 1,2,4-Trimethylbenzene	13.04	105	34216	3.032	ug/l 96
81) sec-Butylbenzene	13.17	105	3215	0.247	ug/l 66
82) p-Isopropyltoluene	13.29	119	11609	0.988	ug/l 97
91) Naphthalene	15.13	128	6426	0.816	ug/l # 96

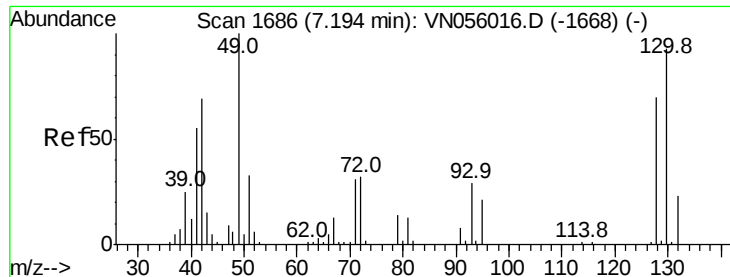
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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001-WILLETS-PT-BLVD(JUNE)

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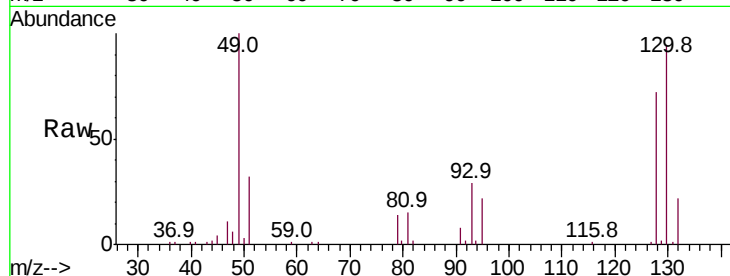




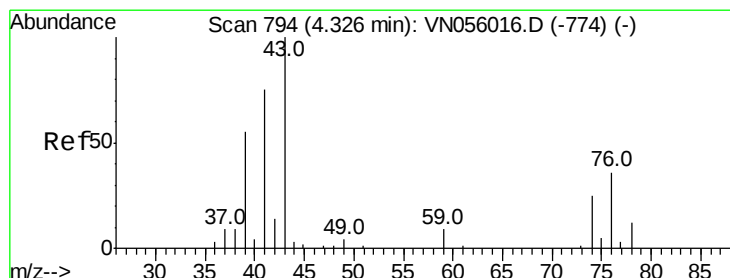
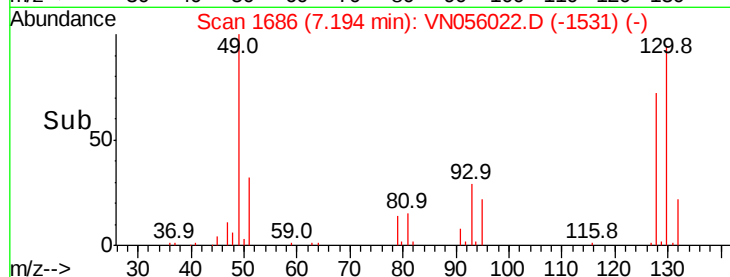
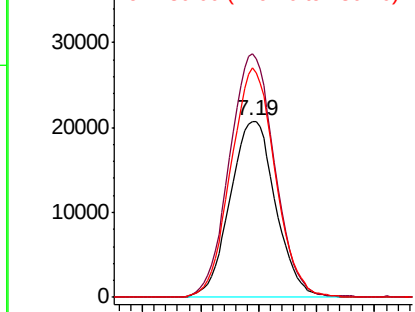
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN056022.D
 Acq: 5 Jun 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(JUNE)

Tot Ion:128 Resp: 56508
 Ion Ratio Lower Upper
 128 100
 49 137.5 0.0 355.8
 130 127.3 0.0 326.3

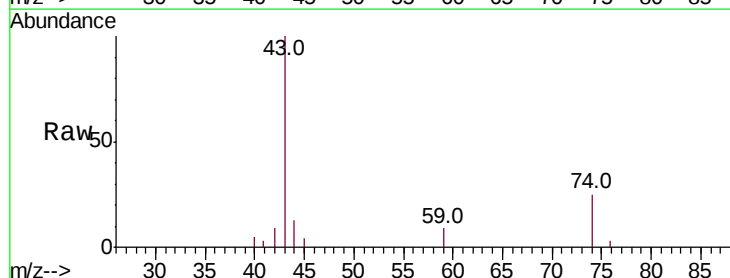


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

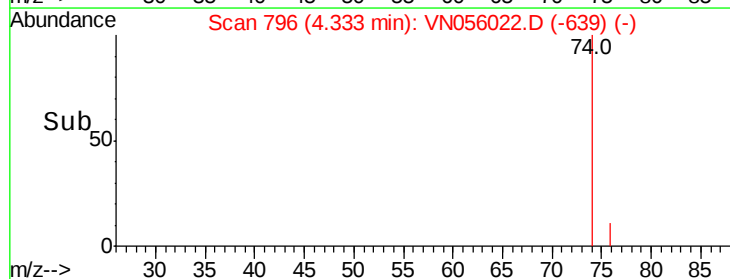
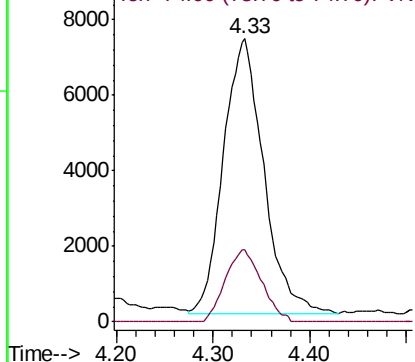


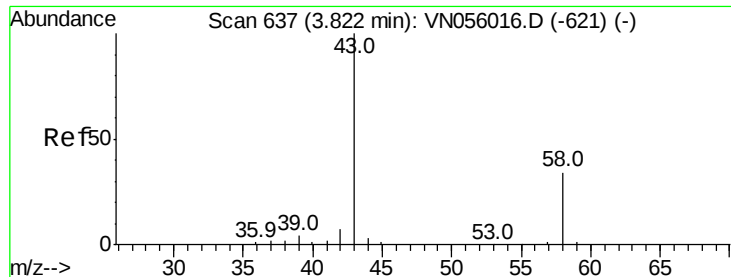
#12
 Methyl Acetate
 Concen: 5.914 ug/l
 RT: 4.33 min Scan# 796
 Delta R.T. 0.01 min
 Lab File: VN056022.D
 Acq: 5 Jun 2019 22:38

Tgt Ion: 43 Resp: 20962
 Ion Ratio Lower Upper
 43 100
 74 26.3 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 74.00 (73.70 to 74.70): VN





#15

Acetone

Concen: 448.211 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN056022.D

Acq: 5 Jun 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

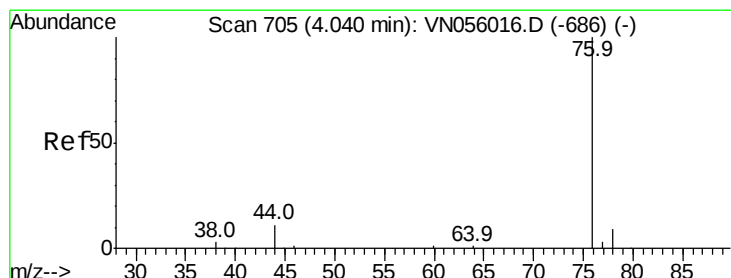
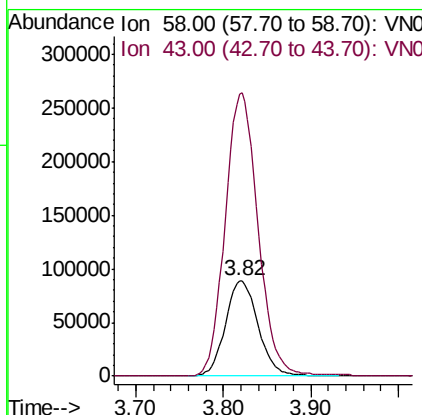
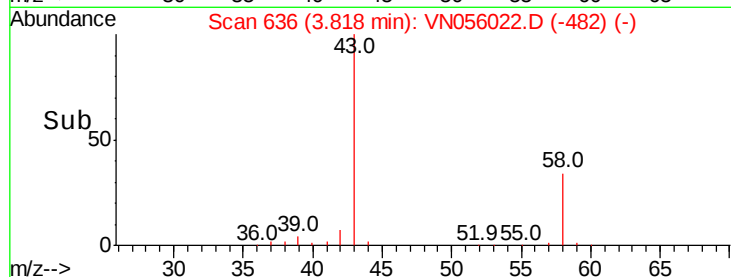
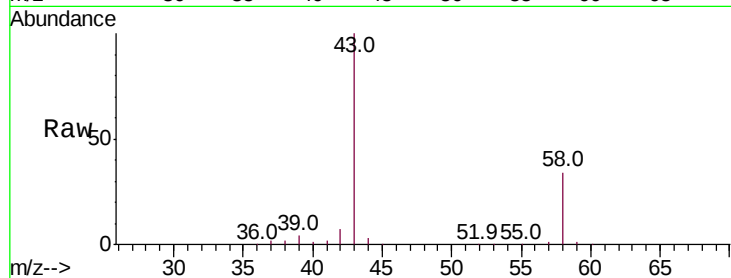
001-WILLETS-PT-BLVD(JUNE)

Tot Ion: 58 Resp: 231981

Ion Ratio Lower Upper

58 100

43 294.1 232.5 348.7



#16

Carbon Disulfide

Concen: 0.865 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN056022.D

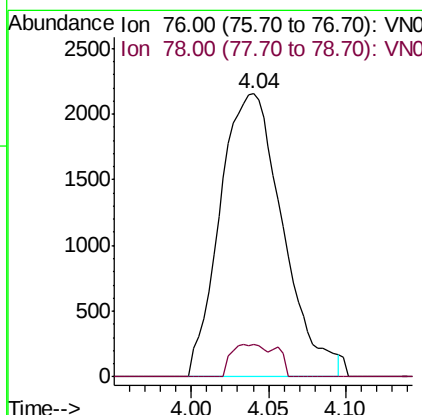
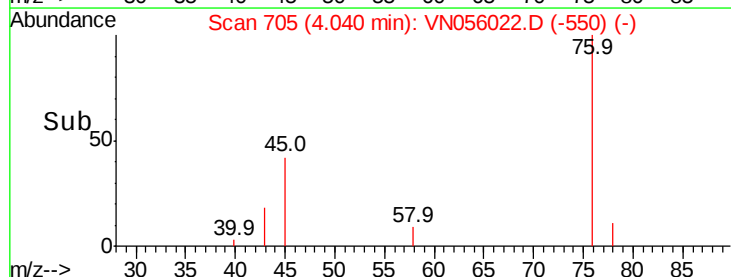
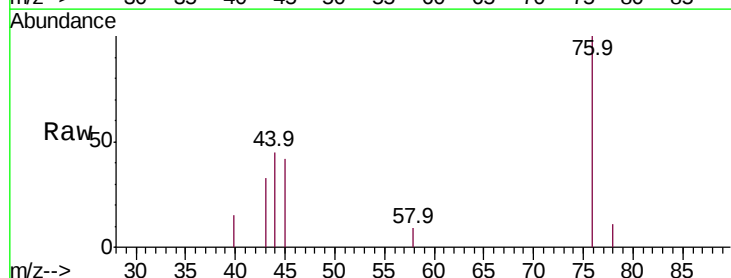
Acq: 5 Jun 2019 22:38

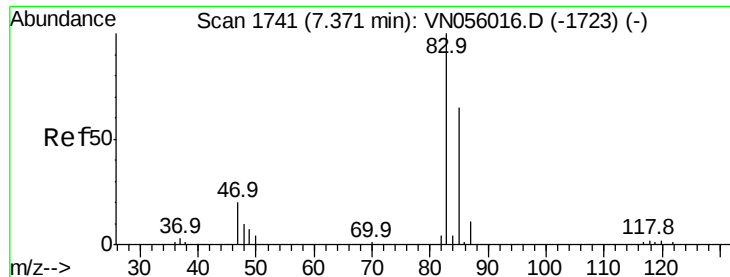
Tgt Ion: 76 Resp: 6074

Ion Ratio Lower Upper

76 100

78 11.3 7.3 10.9#





#25

Chloroform

Concen: 3.561 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN056022.D

Acq: 5 Jun 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

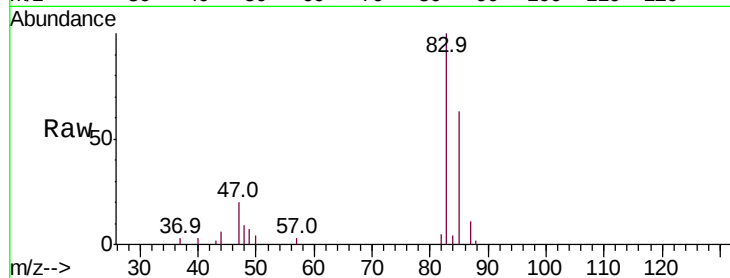
001-WILLETS-PT-BLVD(JUNE)

Tot Ion: 83 Resp: 19569

Ion Ratio Lower Upper

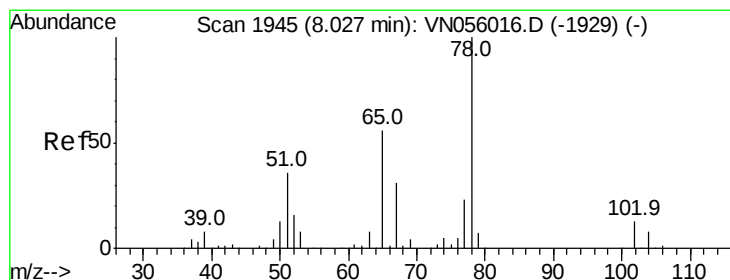
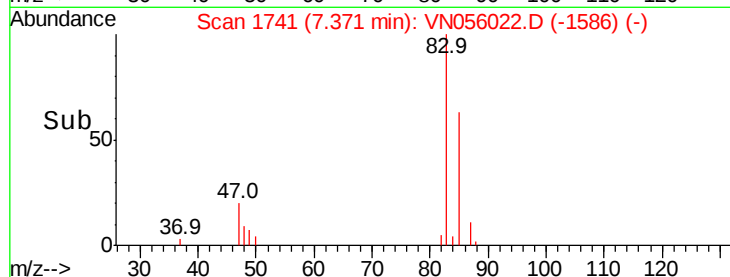
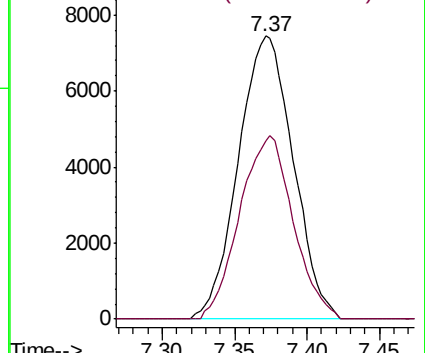
83 100

85 63.1 52.0 78.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#27

1,2-Dichloroethane-d4

Concen: 30.443 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056022.D

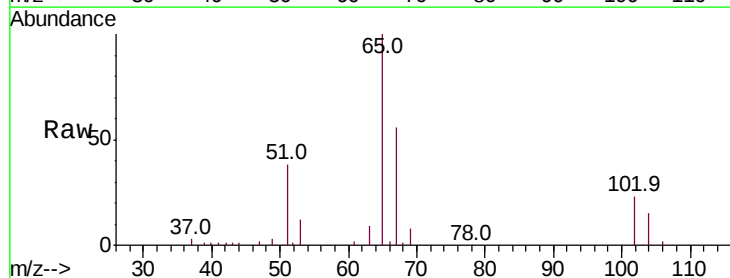
Acq: 5 Jun 2019 22:38

Tgt Ion: 65 Resp: 106829

Ion Ratio Lower Upper

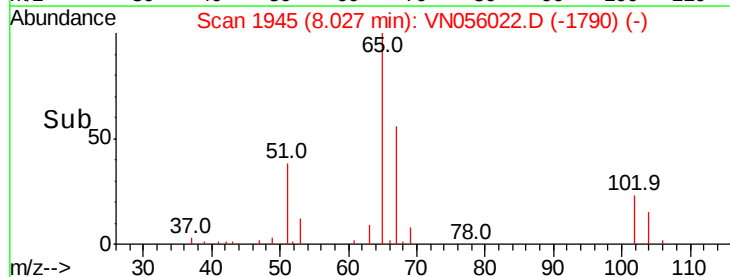
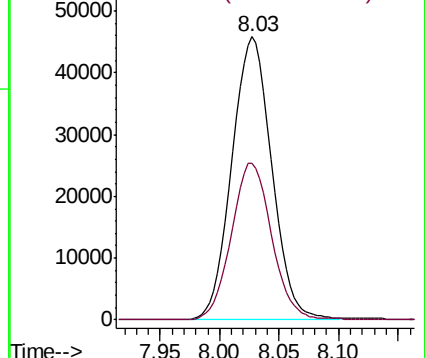
65 100

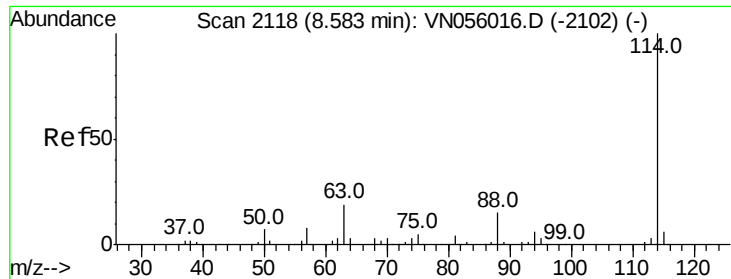
67 55.5 43.4 65.2



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

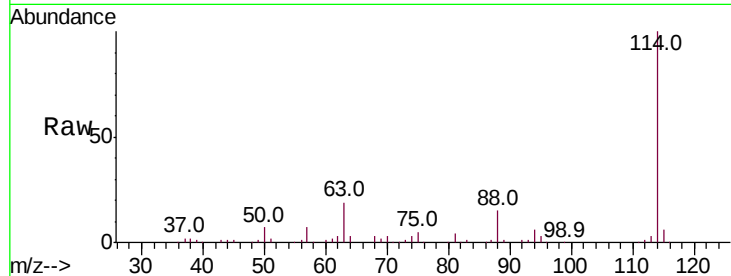




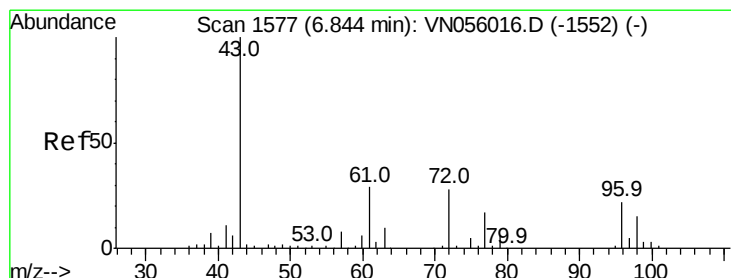
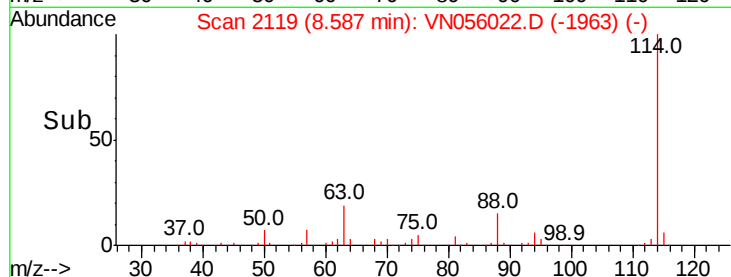
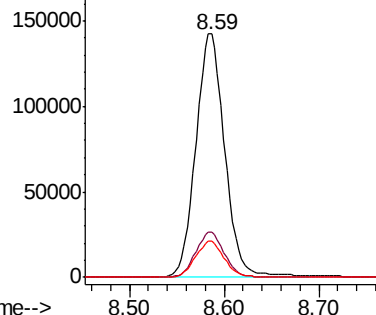
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056022.D
 Acq: 5 Jun 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(JUNE)

Tot Ion:114 Resp: 302608
 Ion Ratio Lower Upper
 114 100
 63 18.6 14.7 22.1
 88 14.8 11.9 17.9

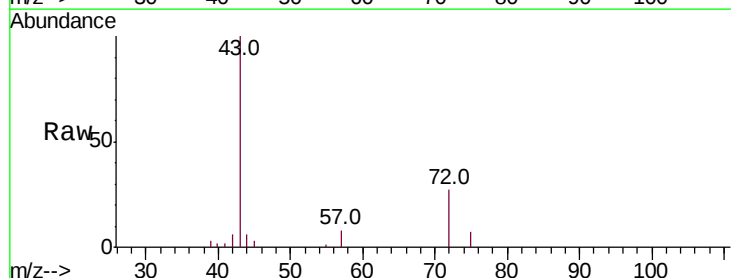


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 88.00 (87.70 to 88.70): VNO

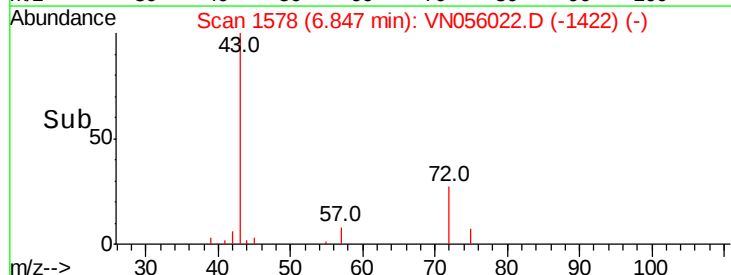
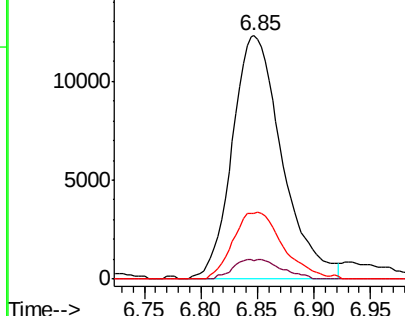


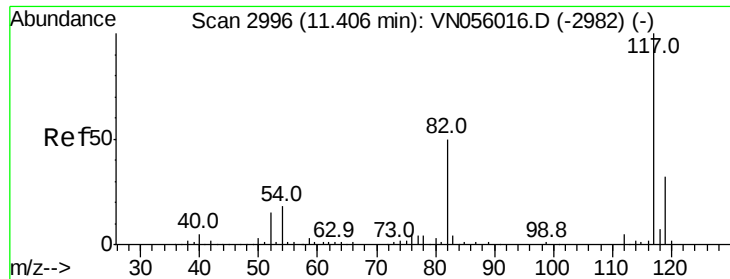
#30
 2-Butanone
 Concen: 17.456 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VN056022.D
 Acq: 5 Jun 2019 22:38

Tgt Ion: 43 Resp: 37615
 Ion Ratio Lower Upper
 43 100
 57 3.6 6.7 10.1#
 72 12.4 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 57.00 (56.70 to 57.70): VNO
 Ion 72.00 (71.70 to 72.70): VNO

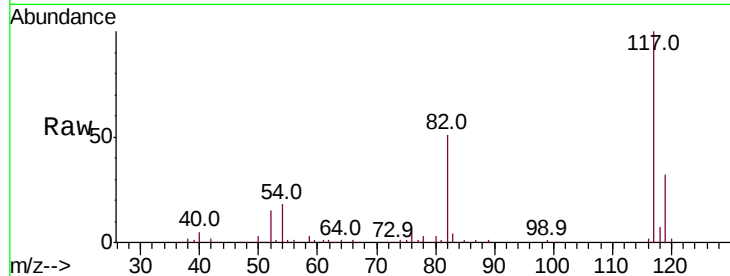




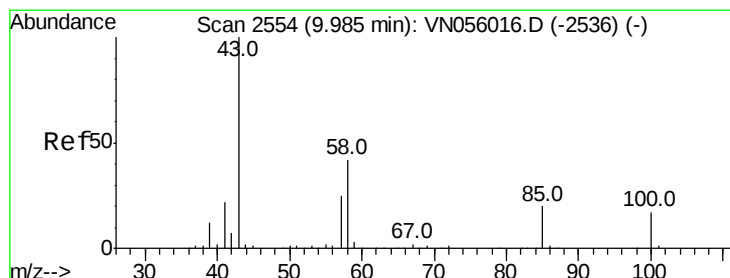
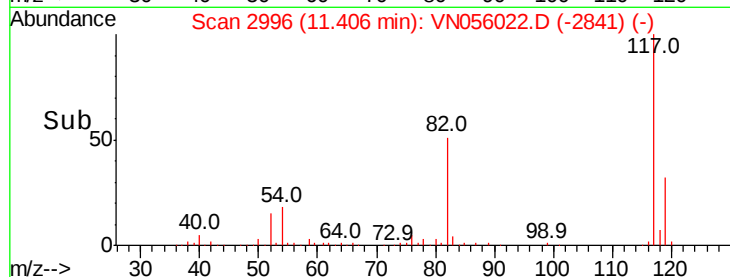
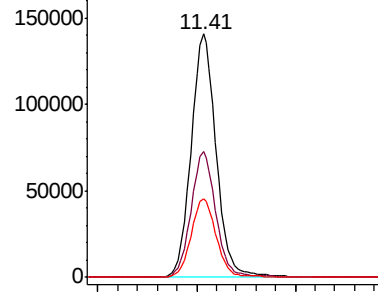
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056022.D
Acq: 5 Jun 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

Tot Ion:117 Resp: 250500
Ion Ratio Lower Upper
117 100
82 50.8 41.2 61.8
119 32.5 26.2 39.2

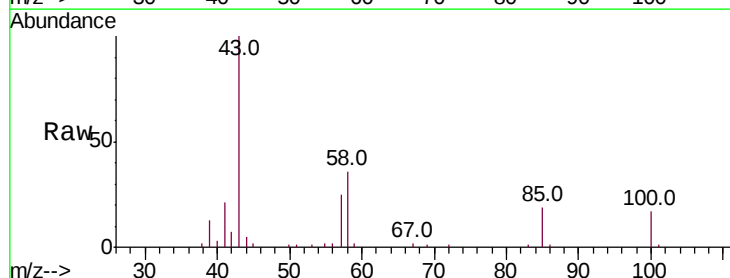


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

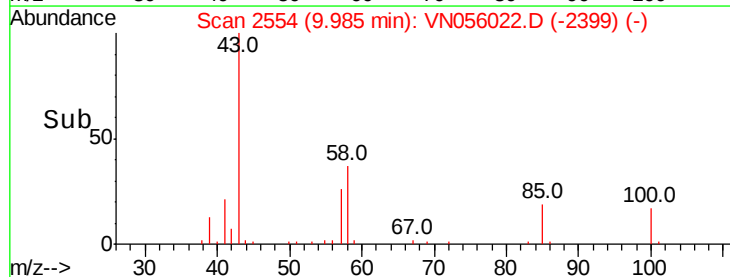
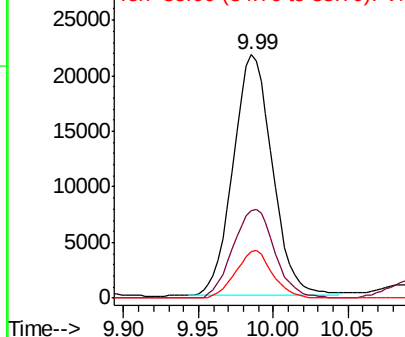


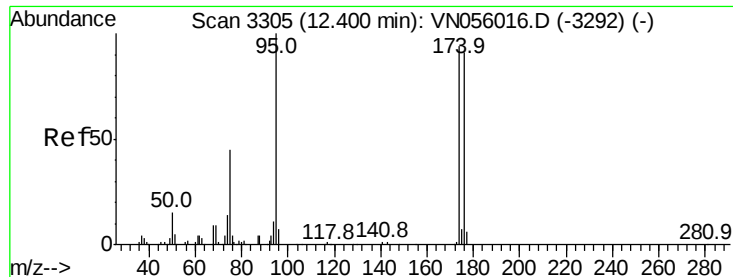
#58
4-Methyl-2-Pentanone
Concen: 10.434 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN056022.D
Acq: 5 Jun 2019 22:38

Tgt Ion: 43 Resp: 39578
Ion Ratio Lower Upper
43 100
58 39.3 33.1 49.7
85 18.4 15.5 23.3



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN





#60

4-Bromofluorobenzene

Concen: 26.199 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056022.D

Acq: 5 Jun 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

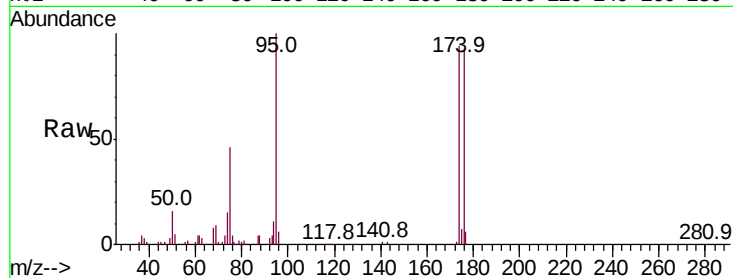
Tot Ion: 95 Resp: 97276

Ion Ratio Lower Upper

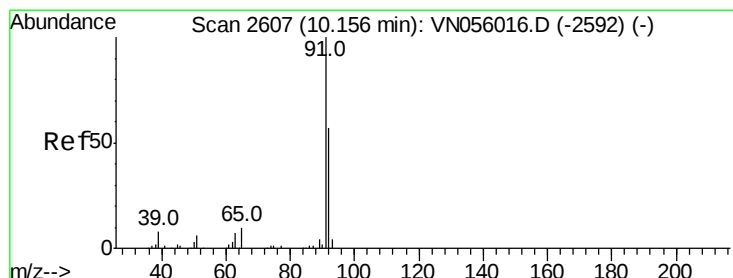
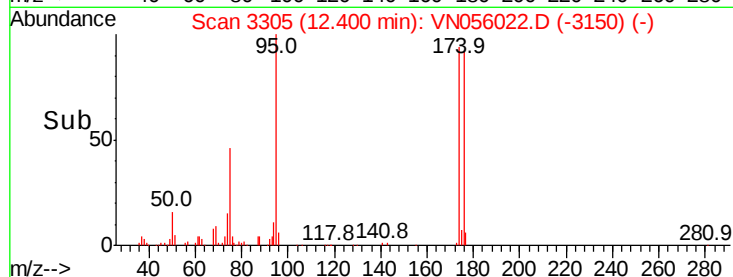
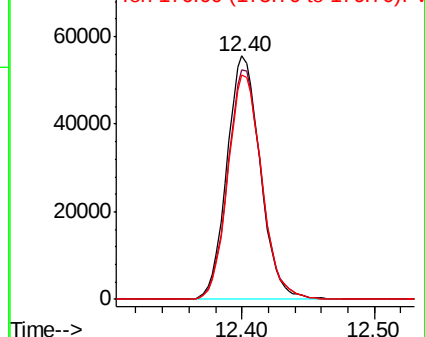
95 100

174 95.0 75.4 113.0

176 93.4 73.9 110.9



Abundance Ion 95.00 (94.70 to 95.70): VNO
Ion 174.00 (173.70 to 174.70): VNO
Ion 176.00 (175.70 to 176.70): VNO



#62

Toluene

Concen: 53.540 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN056022.D

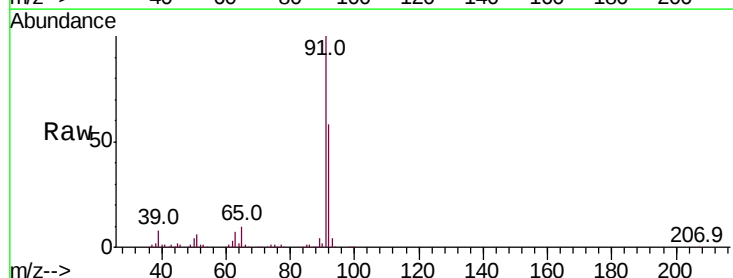
Acq: 5 Jun 2019 22:38

Tgt Ion: 91 Resp: 724020

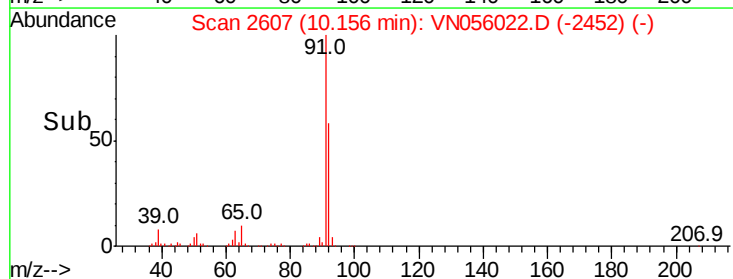
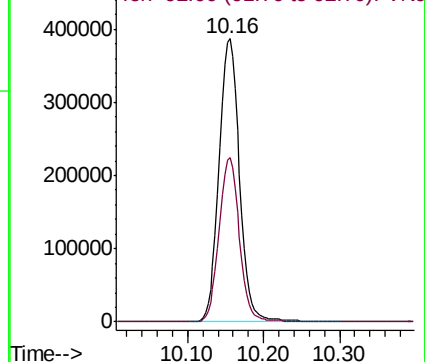
Ion Ratio Lower Upper

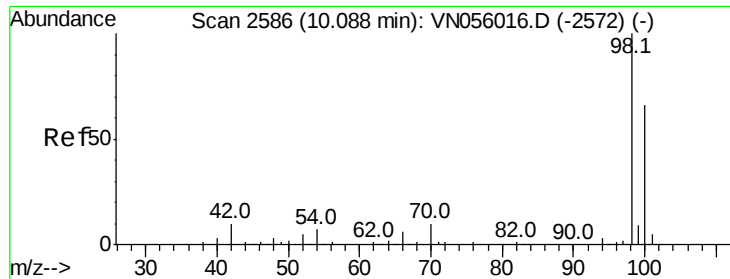
91 100

92 57.4 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): VNO
Ion 92.00 (91.70 to 92.70): VNO





#63

Toluene-d8

Concen: 31.124 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056022.D

Acq: 5 Jun 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

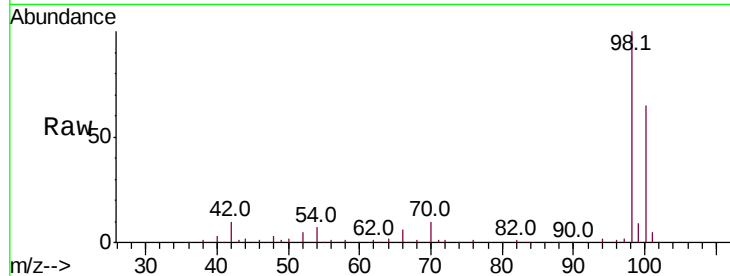
001-WILLETS-PT-BLVD(JUNE)

Tot Ion: 98 Resp: 353679

Ion Ratio Lower Upper

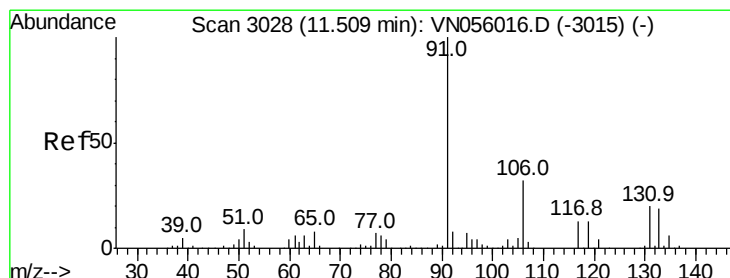
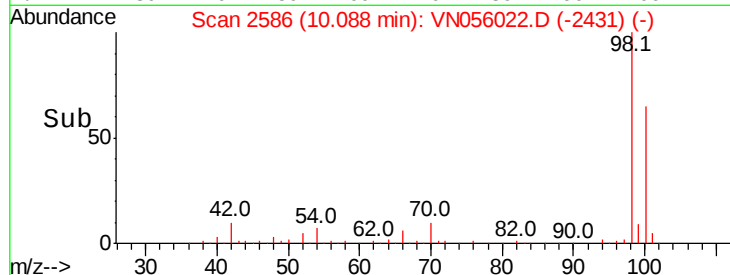
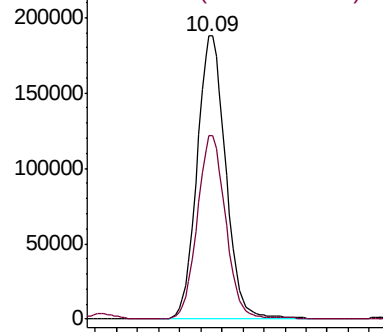
98 100

100 64.5 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#66

Ethyl Benzene

Concen: 0.392 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN056022.D

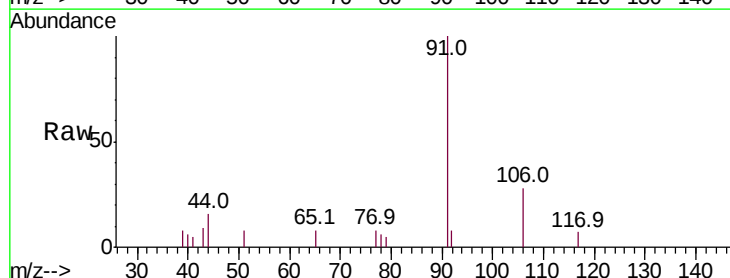
Acq: 5 Jun 2019 22:38

Tgt Ion: 91 Resp: 5646

Ion Ratio Lower Upper

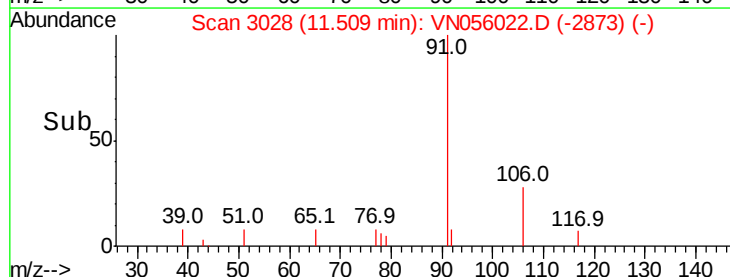
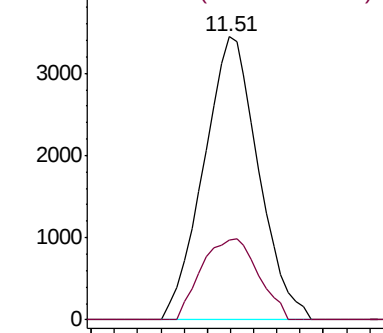
91 100

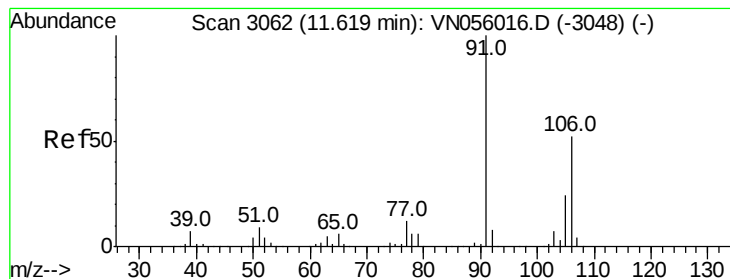
106 28.0 25.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 1.486 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN056022.D

Acq: 5 Jun 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

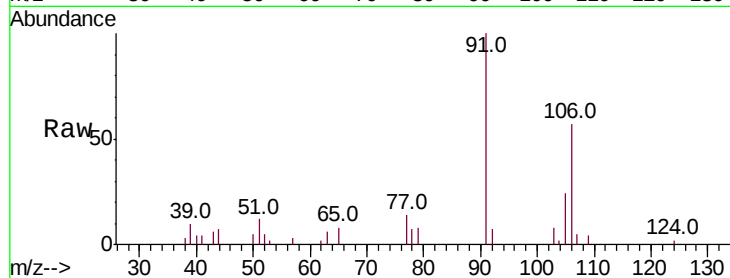
001-WILLETS-PT-BLVD(JUNE)

Tot Ion:106 Resp: 8192

Ion Ratio Lower Upper

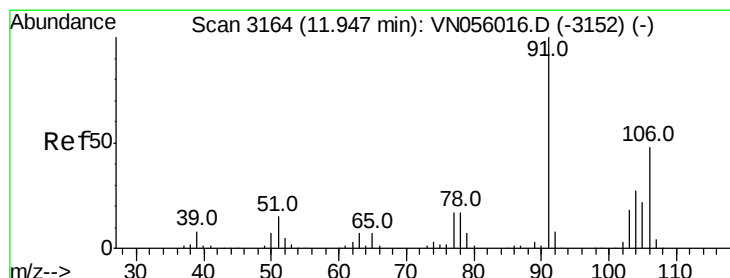
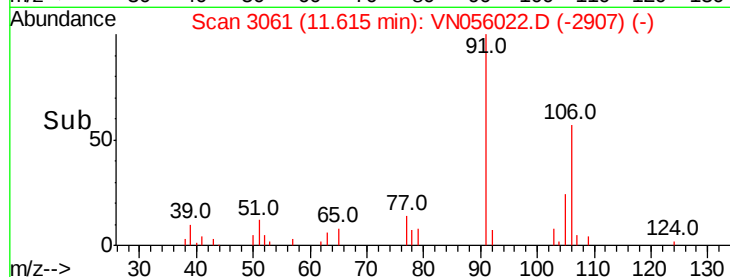
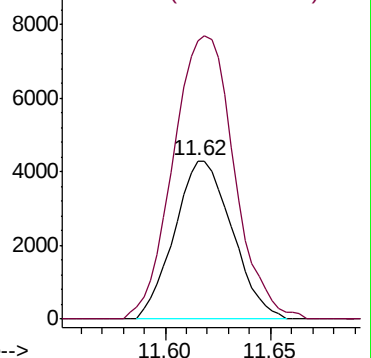
106 100

91 188.3 155.7 233.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 0.742 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN056022.D

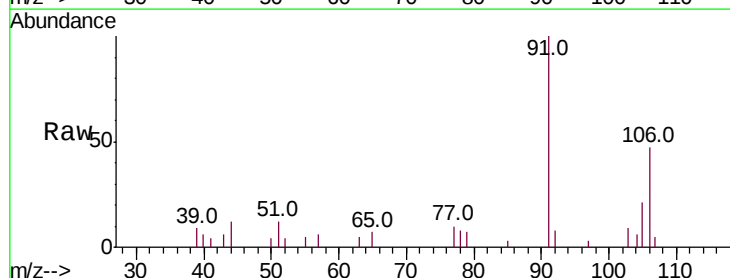
Acq: 5 Jun 2019 22:38

Tgt Ion:106 Resp: 4004

Ion Ratio Lower Upper

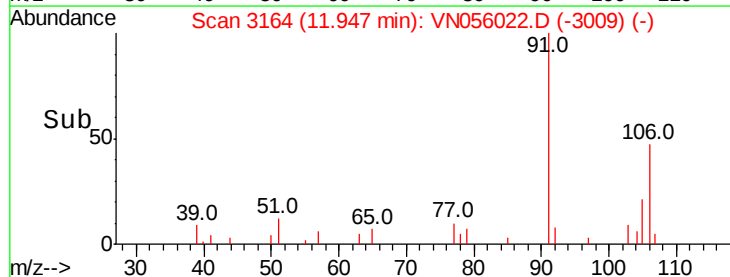
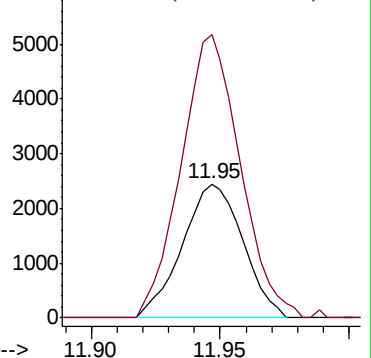
106 100

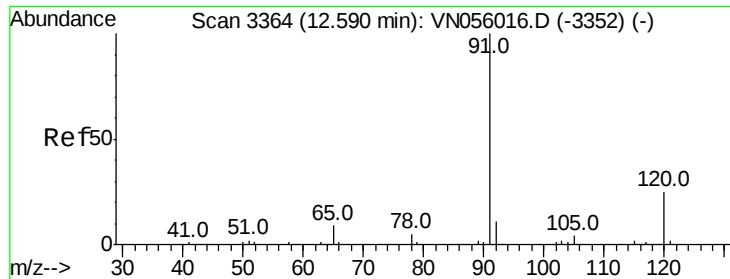
91 206.8 103.9 311.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#74

n-propylbenzene

Concen: 0.395 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN056022.D

Acq: 5 Jun 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

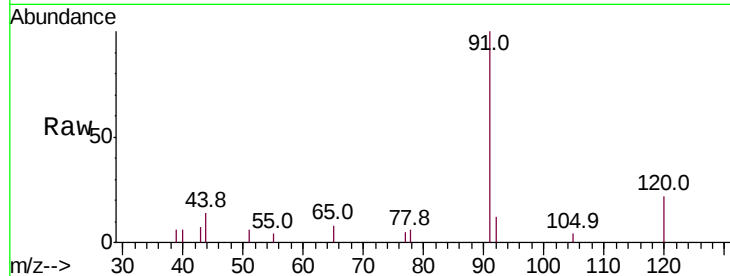
001-WILLETS-PT-BLVD(JUNE)

Tot Ion: 91 Resp: 5884

Ion Ratio Lower Upper

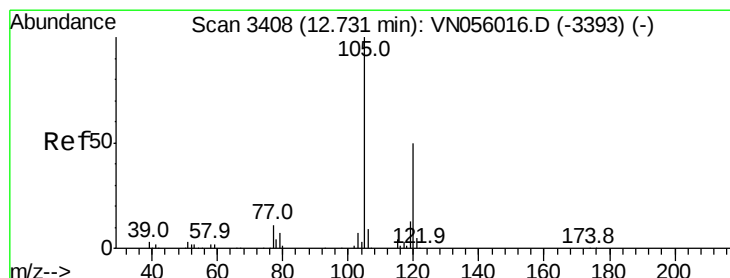
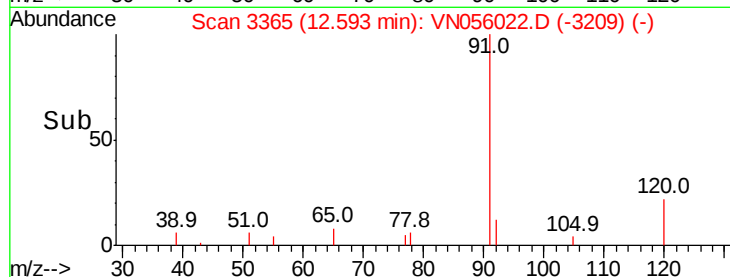
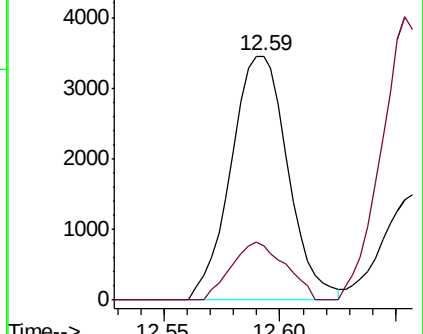
91 100

120 22.8 0.0 48.6



Abundance Ion 91.00 (90.70 to 91.70): VN056016.D (-3352) (-)

Ion 120.00 (119.70 to 120.70): VN056016.D (-3352) (-)



#76

1,3,5-Trimethylbenzene

Concen: 0.988 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056022.D

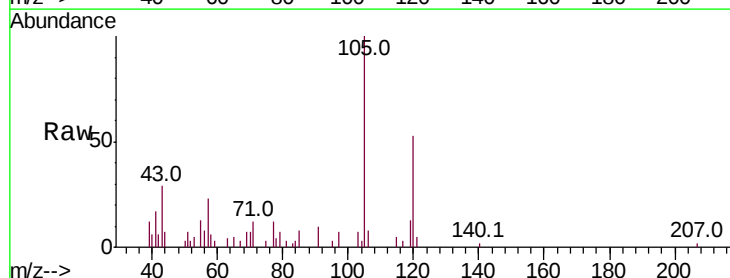
Acq: 5 Jun 2019 22:38

Tgt Ion:105 Resp: 11458

Ion Ratio Lower Upper

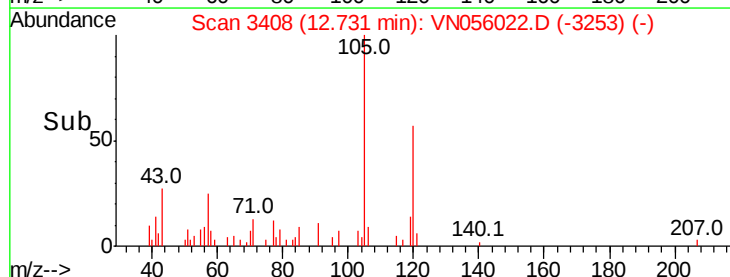
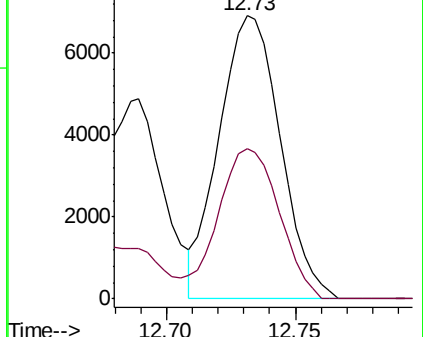
105 100

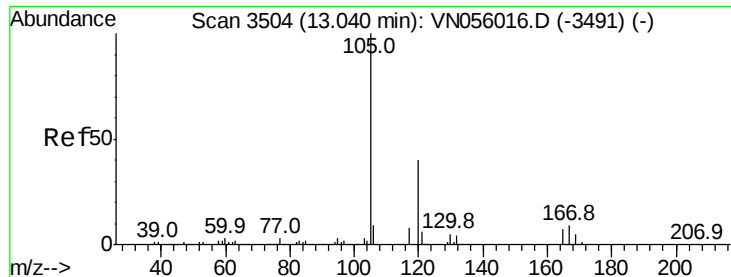
120 53.2 0.0 100.6



Abundance Ion 105.00 (104.70 to 105.70): VN056016.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN056016.D (-3393) (-)





#80

1,2,4-Trimethylbenzene

Concen: 3.032 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN056022.D

Acq: 5 Jun 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

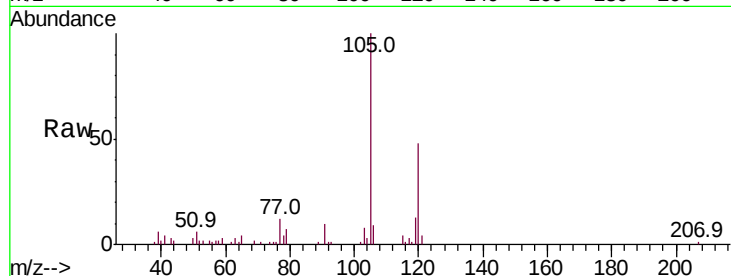
001-WILLETS-PT-BLVD(JUNE)

Tot Ion:105 Resp: 34216

Ion Ratio Lower Upper

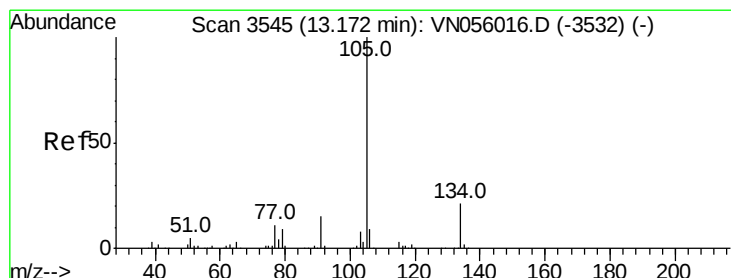
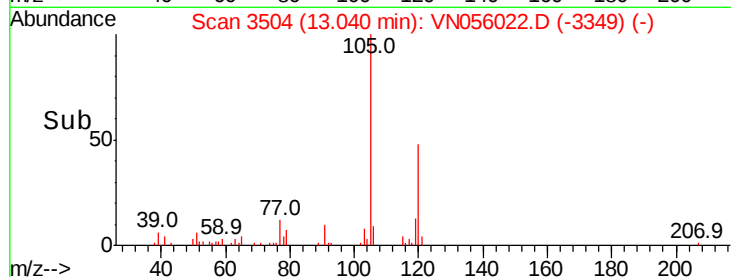
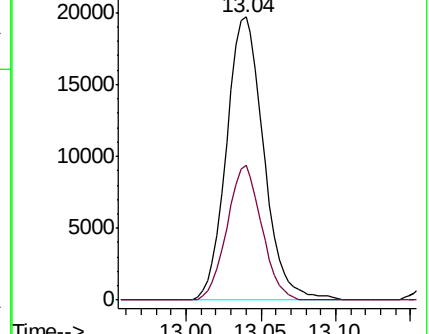
105 100

120 44.1 0.0 93.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

sec-Butylbenzene

Concen: 0.247 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN056022.D

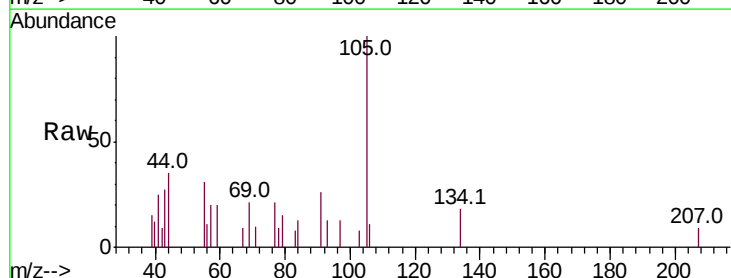
Acq: 5 Jun 2019 22:38

Tgt Ion:105 Resp: 3215

Ion Ratio Lower Upper

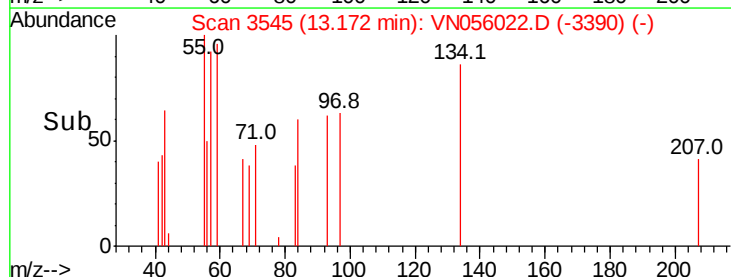
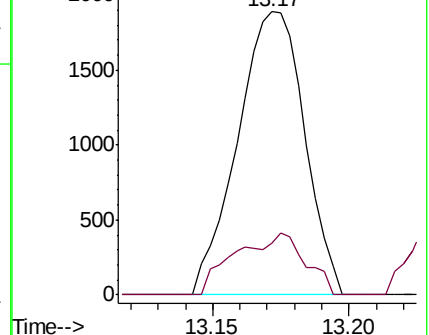
105 100

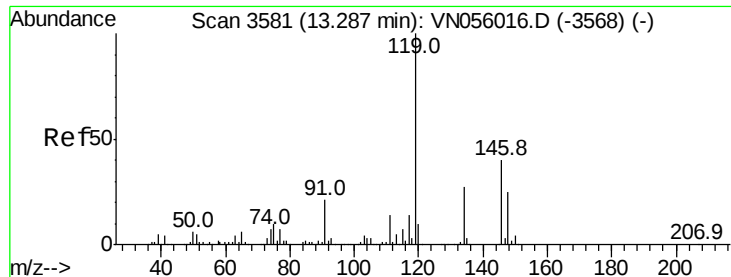
134 5.2 0.0 41.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#82

p-Isopropyltoluene

Concen: 0.988 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN056022.D

Acq: 5 Jun 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

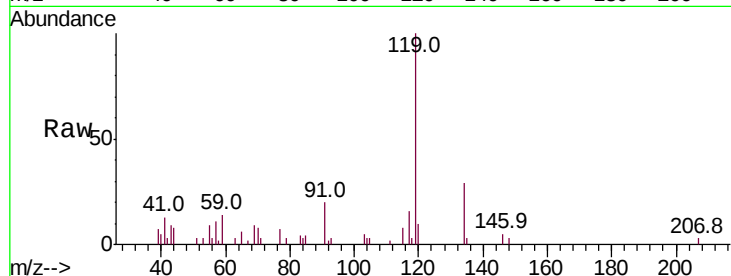
Tot Ion:119 Resp: 11609

Ion Ratio Lower Upper

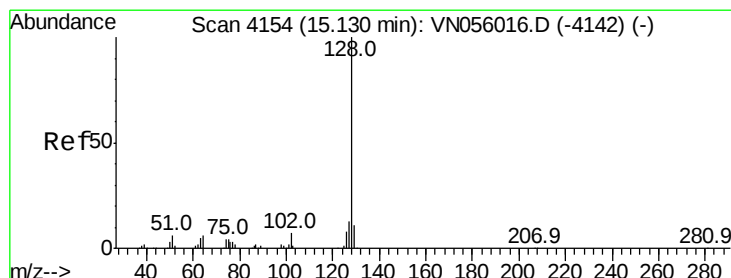
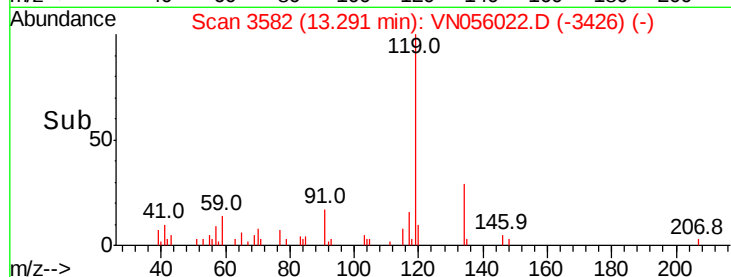
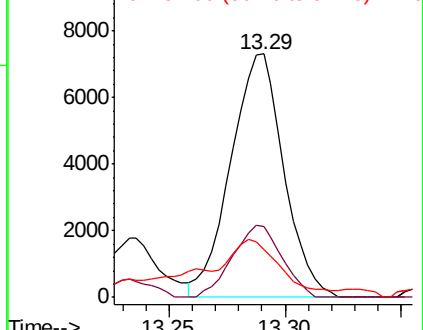
119 100

134 27.5 0.0 53.4

91 23.9 0.0 43.0



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



#91

Naphthalene

Concen: 0.816 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056022.D

Acq: 5 Jun 2019 22:38

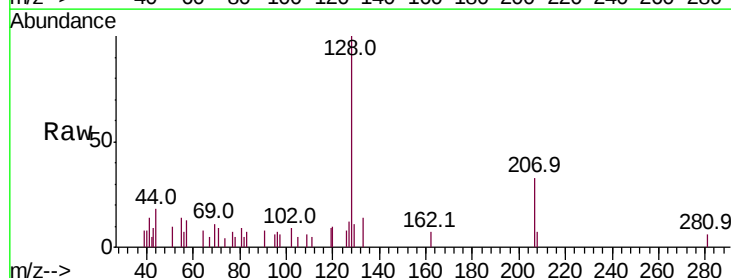
Tgt Ion:128 Resp: 6426

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

129 8.2 8.7 13.1#



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

