

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
 Data File : VN056302.D
 Acq On : 14 Jun 2019 10:13
 Operator : JC/SP
 Sample : K3336-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

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

Quant Time: Jun 14 12:20:29 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	58025	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	303664	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	268291	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	117432	32.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	108.63%
60) 4-Bromofluorobenzene	12.40	95	105624	26.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.53%
63) Toluene-d8	10.09	98	367829	30.22	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.73%

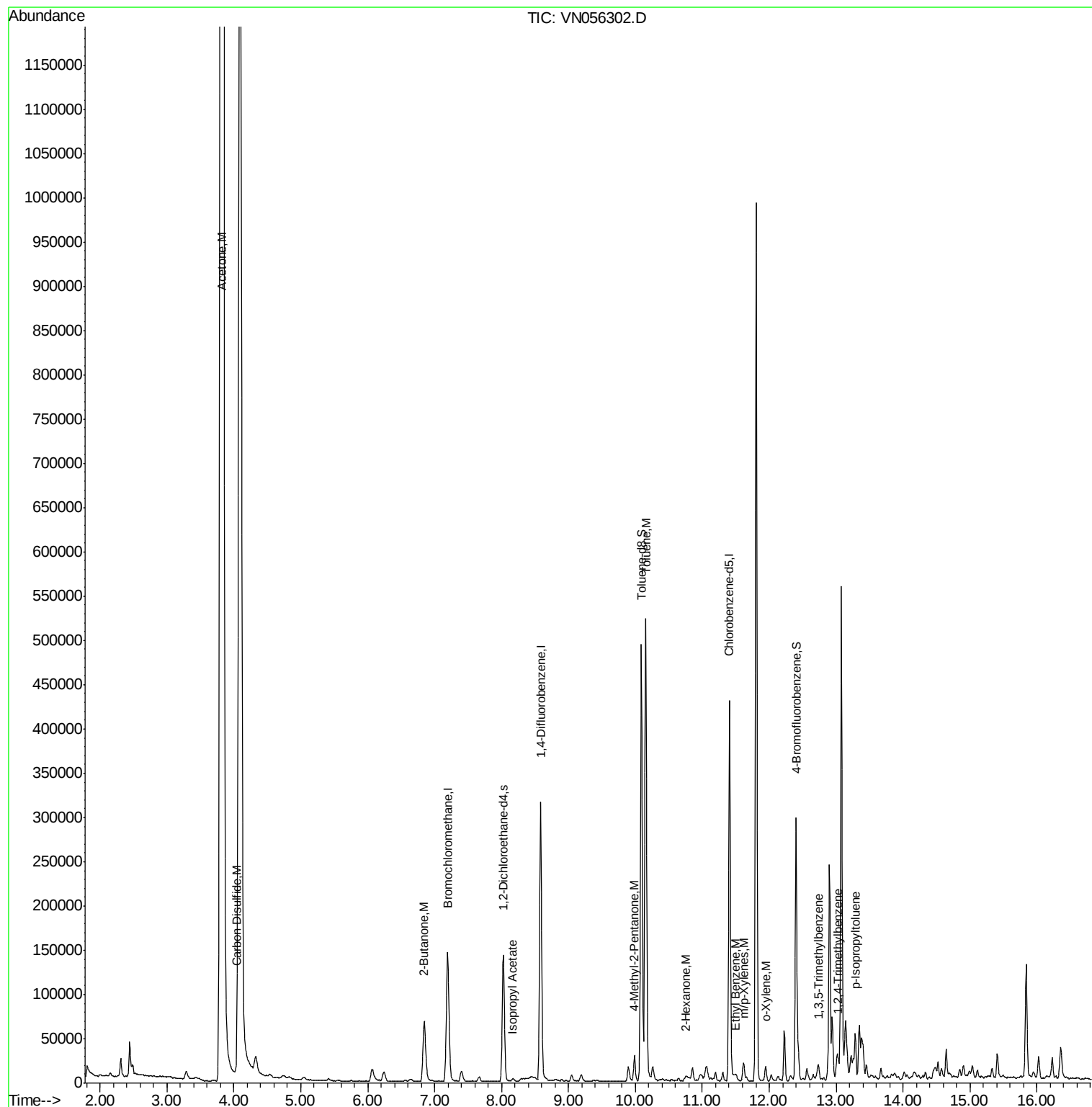
Target Compounds					Ovalue
15) Acetone	3.82	58	4710910	8864.003 ug/l	96
16) Carbon Disulfide	4.04	76	6679	0.927 ug/l	97
30) 2-Butanone	6.84	43	123499	57.111 ug/l	98
44) Isopropyl Acetate	8.17	43	3130	0.487 ug/l	92
58) 4-Methyl-2-Pentanone	9.99	43	20319	5.001 ug/l	96
59) 2-Hexanone	10.75	43	2041	0.703 ug/l #	81
62) Toluene	10.16	91	423655	29.251 ug/l	99
66) Ethyl Benzene	11.51	91	4109	0.266 ug/l	95
67) m/p-Xylenes	11.62	106	6127	1.038 ug/l	85
68) o-Xylene	11.94	106	4244	0.734 ug/l	76
76) 1,3,5-Trimethylbenzene	12.73	105	2944	0.237 ug/l	95
80) 1,2,4-Trimethylbenzene	13.04	105	10912	0.903 ug/l	77
82) p-Isopropyltoluene	13.29	119	15282	1.214 ug/l	97

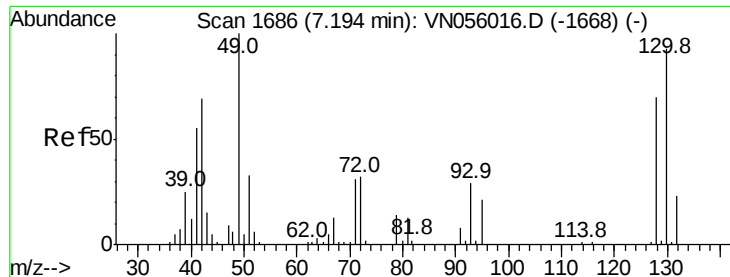
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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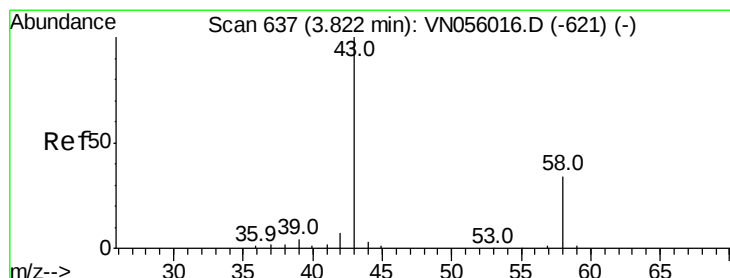
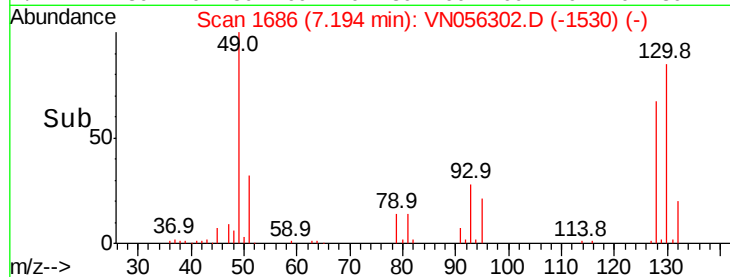
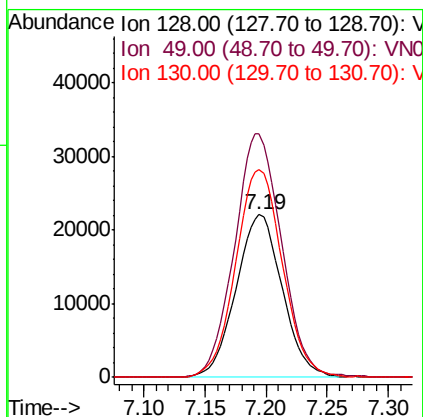
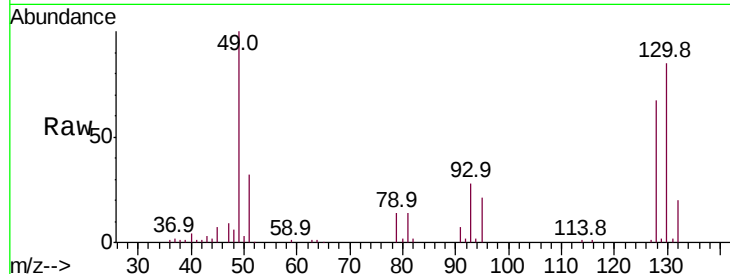




#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN056302.D
 Acq: 14 Jun 2019 10:13

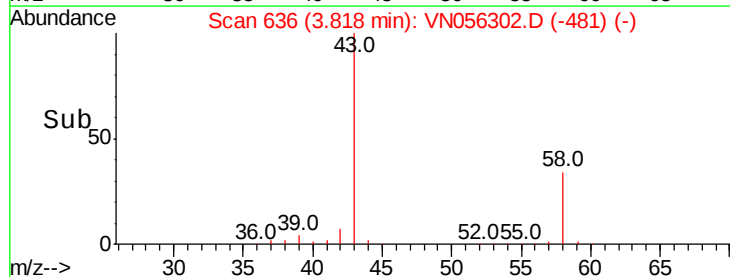
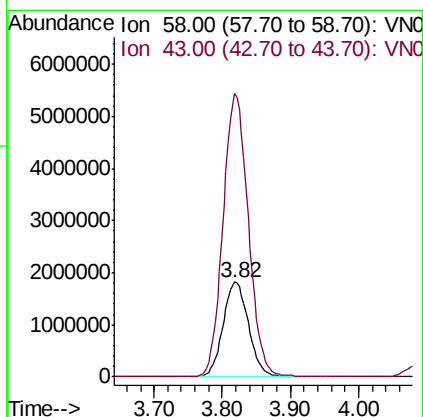
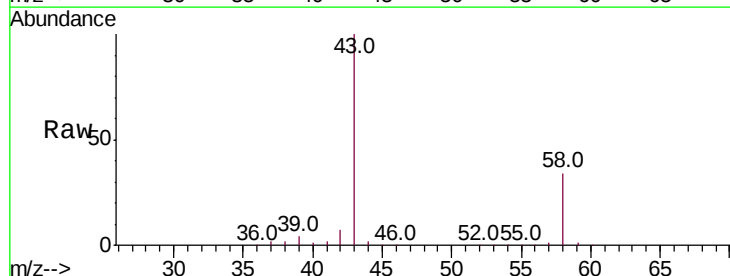
Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(JUNE)

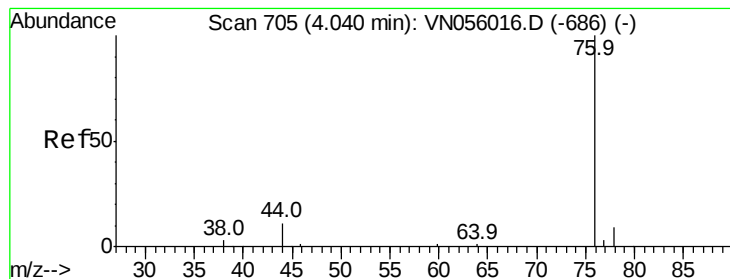
Tot Ion:128 Resp: 58025
 Ion Ratio Lower Upper
 128 100
 49 152.5 0.0 355.8
 130 128.9 0.0 326.3



#15
 Acetone
 Concen: 8864.003 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VN056302.D
 Acq: 14 Jun 2019 10:13

Tgt Ion: 58 Resp: 4710910
 Ion Ratio Lower Upper
 58 100
 43 297.5 232.5 348.7





#16

Carbon Disulfide

Concen: 0.927 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN056302.D

Acq: 14 Jun 2019 10:13

Instrument :

MSVOA_N

ClientSampleId :

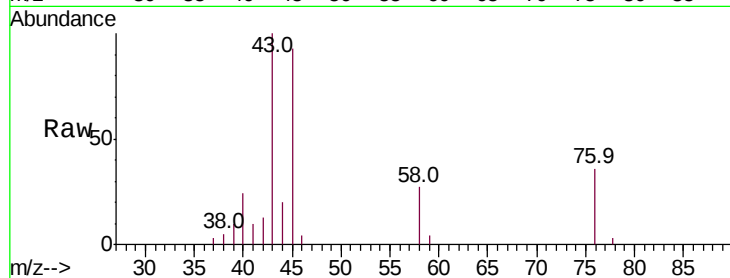
001-WILLETS-PT-BLVD(JUNE)

Tot Ion: 76 Resp: 6679

Ion Ratio Lower Upper

76 100

78 8.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

3000

2500

2000

1500

1000

500

0

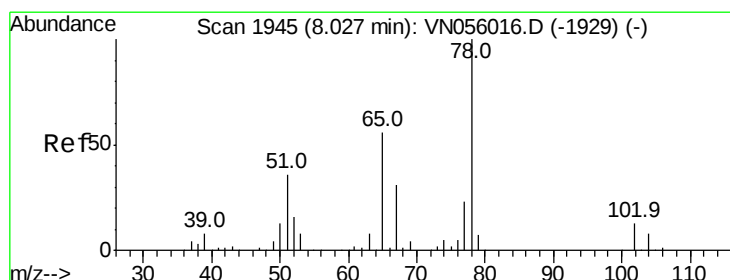
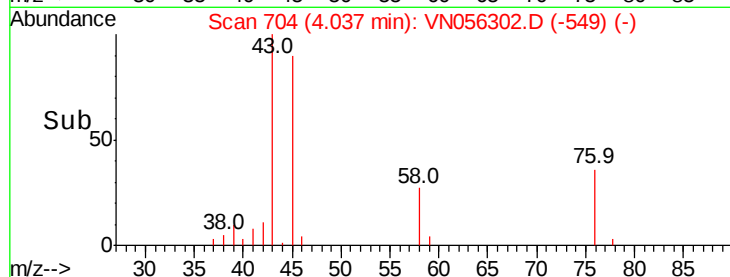
Time-->

3.95

4.00

4.05

4.10



#27

1,2-Dichloroethane-d4

Concen: 32.590 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056302.D

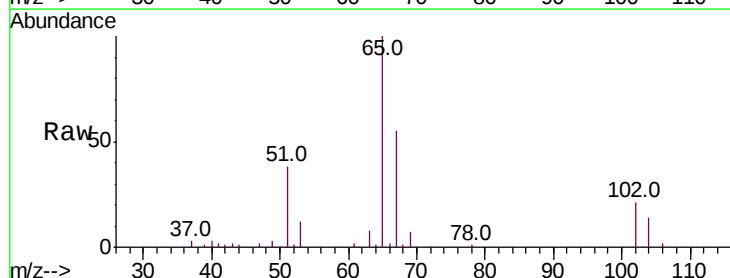
Acq: 14 Jun 2019 10:13

Tgt Ion: 65 Resp: 117432

Ion Ratio Lower Upper

65 100

67 54.2 43.4 65.2



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

60000

50000

40000

30000

20000

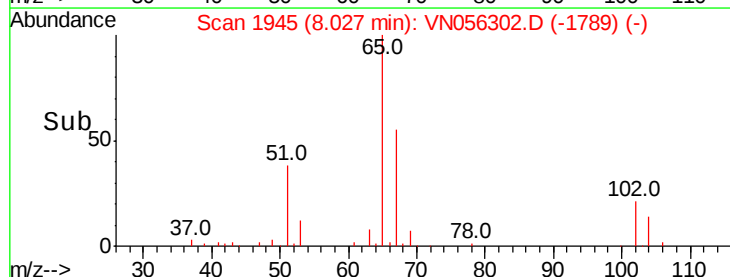
10000

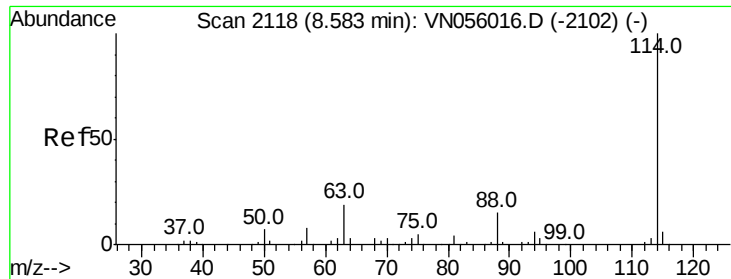
0

Time-->

8.00

8.10

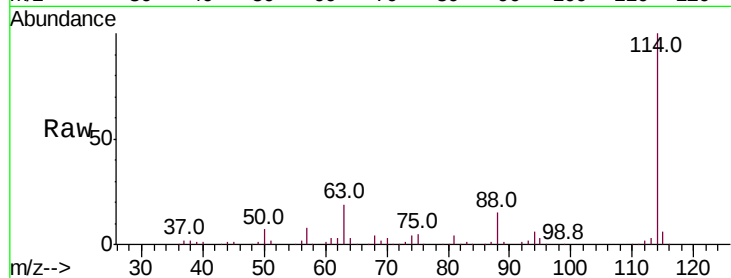




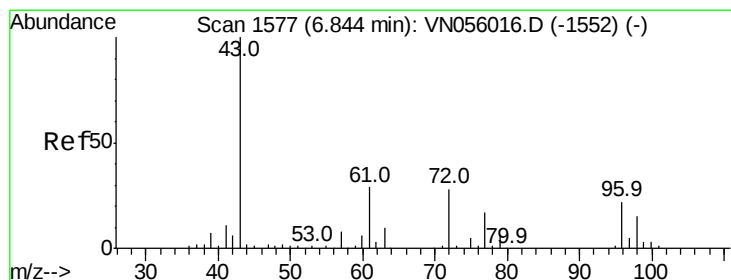
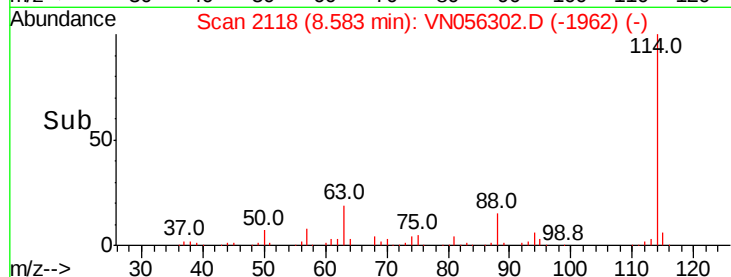
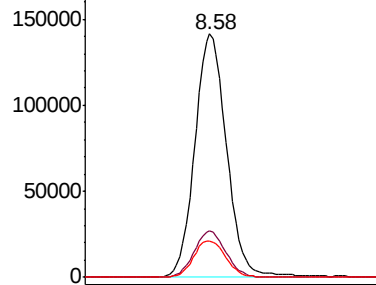
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056302.D
 Acq: 14 Jun 2019 10:13

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

Tot Ion:114 Resp: 303664
 Ion Ratio Lower Upper
 114 100
 63 19.0 14.7 22.1
 88 15.3 11.9 17.9

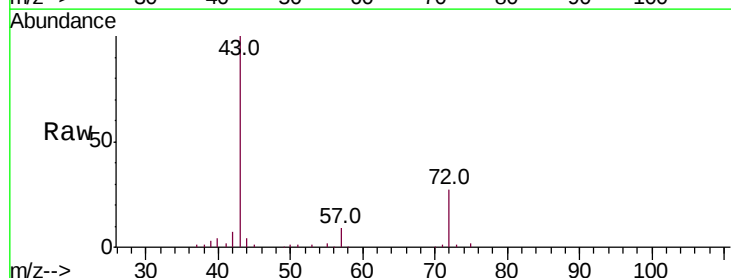


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

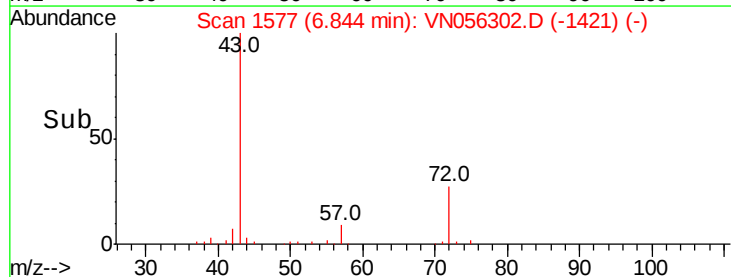
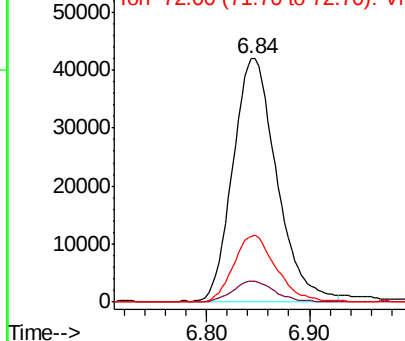


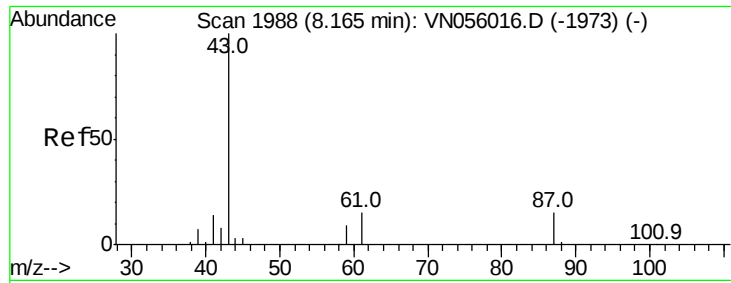
#30
 2-Butanone
 Concen: 57.111 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN056302.D
 Acq: 14 Jun 2019 10:13

Tgt Ion: 43 Resp: 123499
 Ion Ratio Lower Upper
 43 100
 57 8.1 6.7 10.1
 72 26.6 22.4 33.6



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





#44

Isopropyl Acetate

Concen: 0.487 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN056302.D

Acq: 14 Jun 2019 10:13

Instrument :

MSVOA_N

ClientSampleId :

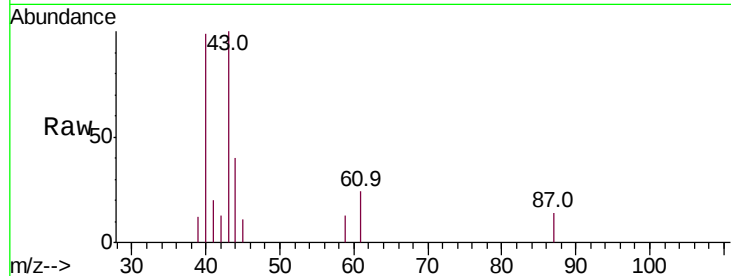
001-WILLETS-PT-BLVD(JUNE)

Tot Ion: 43 Resp: 3130

Ion Ratio Lower Upper

43 100

61 17.6 16.9 25.3



Abundance Ion 43.00 (42.70 to 43.70): VN056016.D (-1973) (-)

Ion 61.00 (60.70 to 61.70): VN056016.D (-1973) (-)

8.17

1500

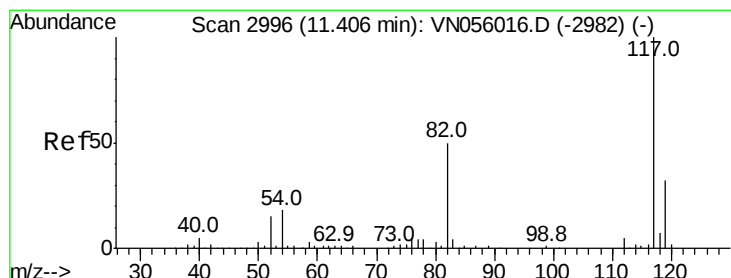
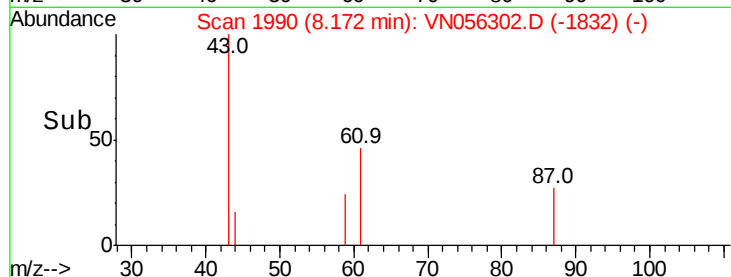
1000

500

0

8.10 8.15 8.20 8.25

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056302.D

Acq: 14 Jun 2019 10:13

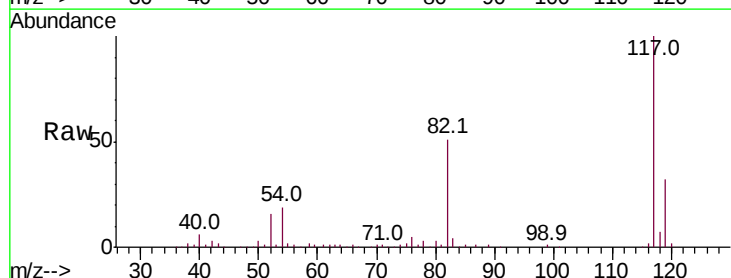
Tgt Ion: 117 Resp: 268291

Ion Ratio Lower Upper

117 100

82 52.1 41.2 61.8

119 31.6 26.2 39.2



Abundance Ion 117.00 (116.70 to 117.70): VN056016.D (-2982) (-)

Ion 82.00 (81.70 to 82.70): VN056016.D (-2982) (-)

Ion 119.00 (118.70 to 119.70): VN056016.D (-2982) (-)

11.41

200000

150000

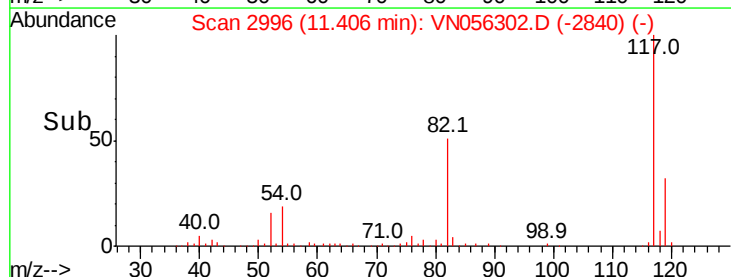
100000

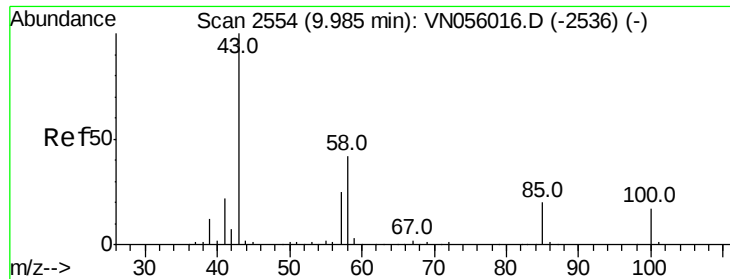
50000

0

11.30 11.40 11.50

Time-->





#58

4-Methyl-2-Pentanone

Concen: 5.001 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056302.D

Acq: 14 Jun 2019 10:13

Instrument :

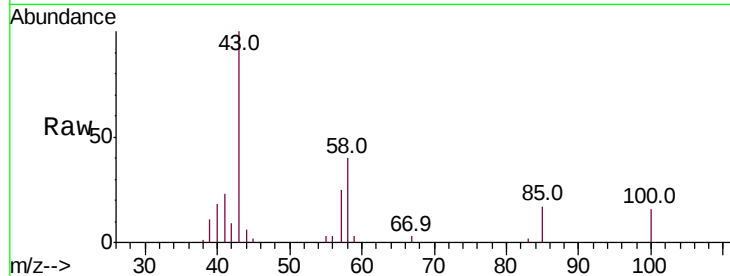
MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

Tot Ion: 43 Resp: 20319

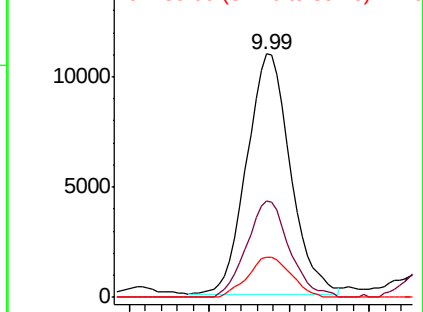
Ion	Ratio	Lower	Upper
43	100		
58	39.4	33.1	49.7
85	16.8	15.5	23.3



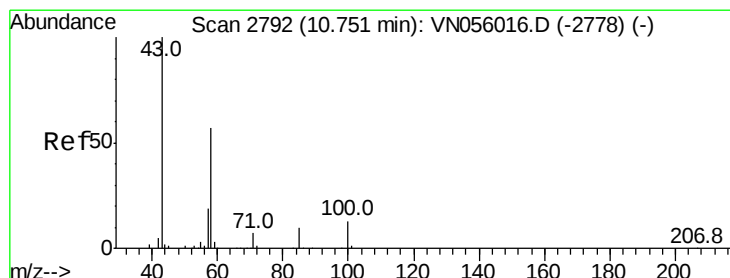
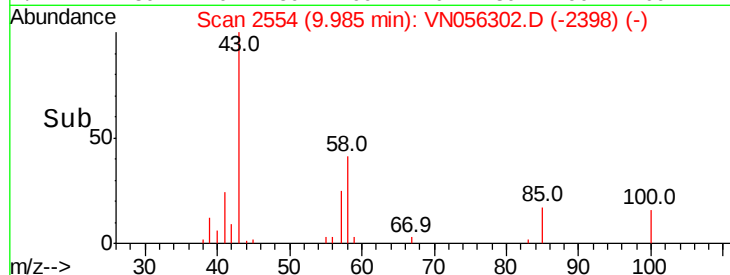
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



Time-->



#59

2-Hexanone

Concen: 0.703 ug/l

RT: 10.75 min Scan# 2793

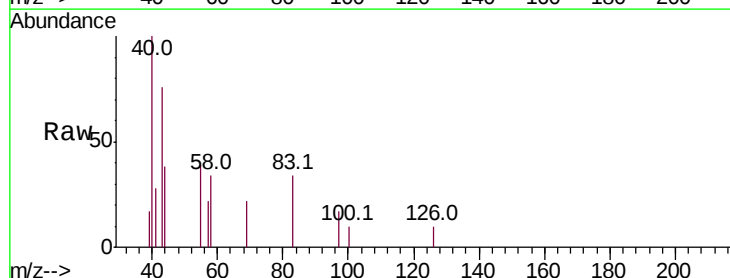
Delta R.T. 0.00 min

Lab File: VN056302.D

Acq: 14 Jun 2019 10:13

Tgt Ion: 43 Resp: 2041

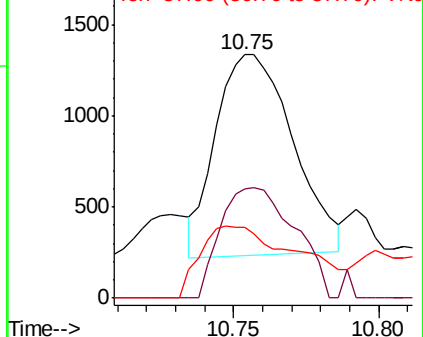
Ion	Ratio	Lower	Upper
43	100		
58	52.8	45.3	67.9
57	46.8	15.6	23.4#



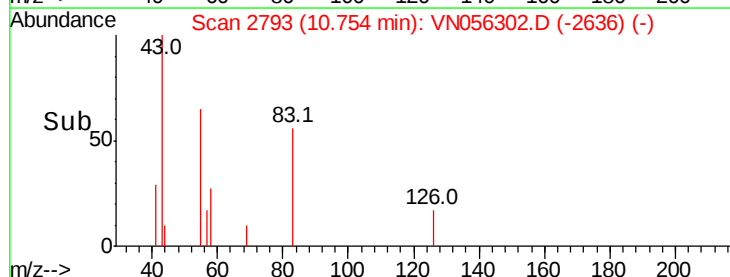
Abundance Ion 43.00 (42.70 to 43.70): VN0

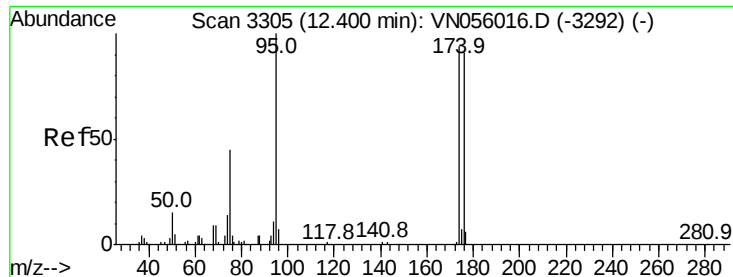
Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



Time-->





#60

4-Bromofluorobenzene

Concen: 26.561 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056302.D

Acq: 14 Jun 2019 10:13

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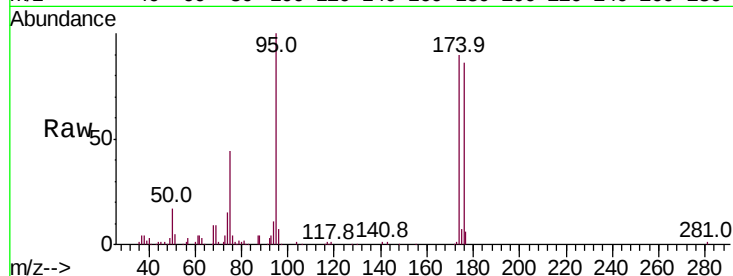
Tot Ion: 95 Resp: 105624

Ion Ratio Lower Upper

95 100

174 90.9 75.4 113.0

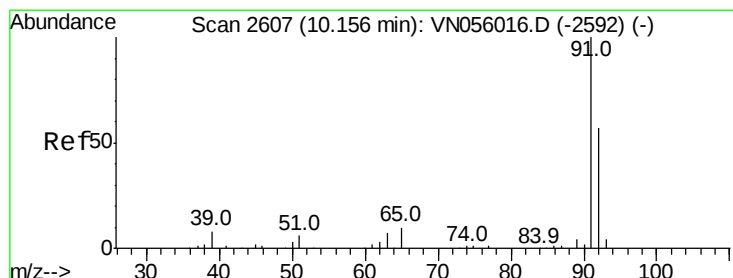
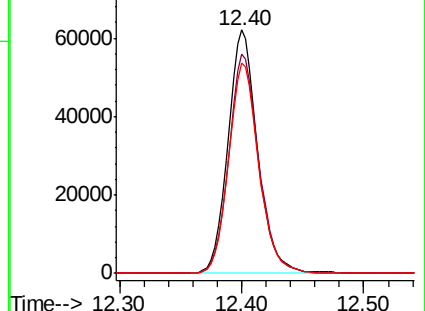
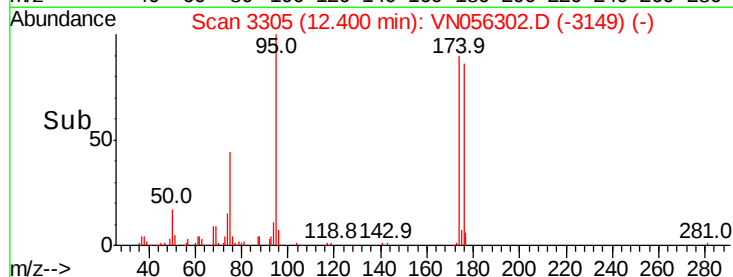
176 87.5 73.9 110.9



Abundance Ion 95.00 (94.70 to 95.70): VN056016.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN056016.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN056016.D (-3292) (-)



#62

Toluene

Concen: 29.251 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056302.D

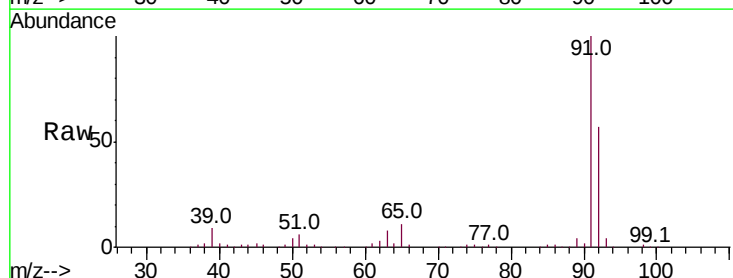
Acq: 14 Jun 2019 10:13

Tgt Ion: 91 Resp: 423655

Ion Ratio Lower Upper

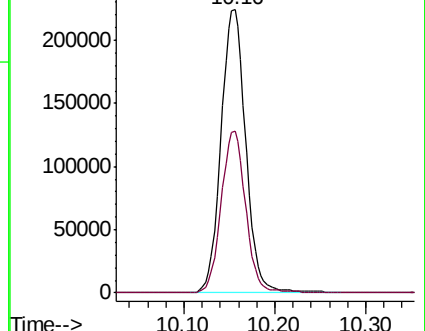
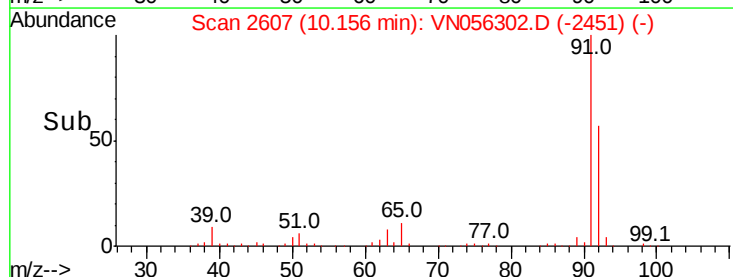
91 100

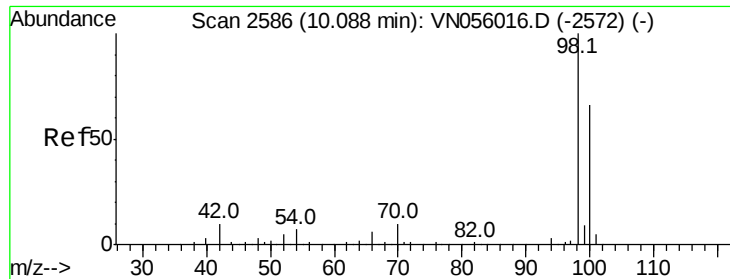
92 56.4 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): VN056016.D (-2592) (-)

Ion 92.00 (91.70 to 92.70): VN056016.D (-2592) (-)





#63

Toluene-d8

Concen: 30.223 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056302.D

Acq: 14 Jun 2019 10:13

Instrument :

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ClientSampleId :

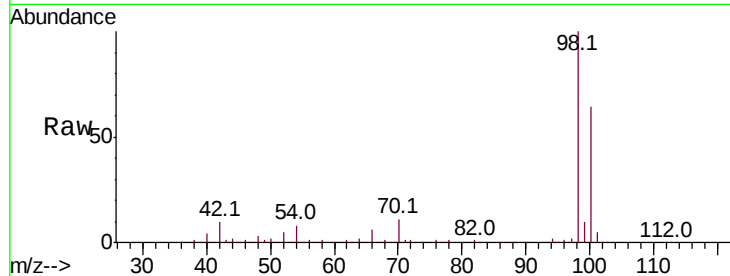
001-WILLETS-PT-BLVD(JUNE)

Tot Ion: 98 Resp: 367829

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

200000

150000

100000

50000

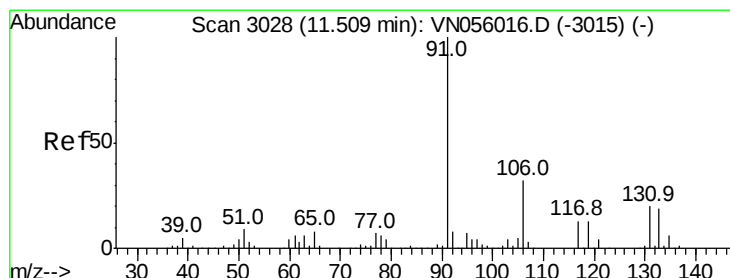
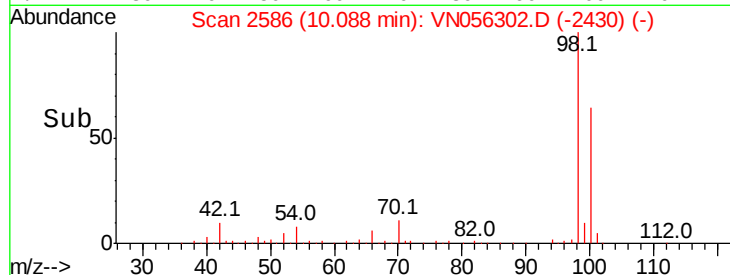
0

10.09

10.10

10.20

Time-->



#66

Ethyl Benzene

Concen: 0.266 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN056302.D

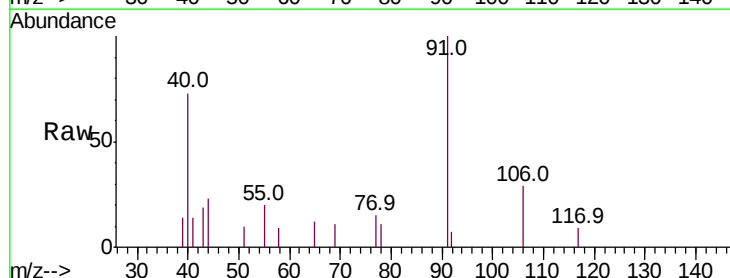
Acq: 14 Jun 2019 10:13

Tgt Ion: 91 Resp: 4109

Ion Ratio Lower Upper

91 100

106 29.2 25.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V

2500

2000

1500

1000

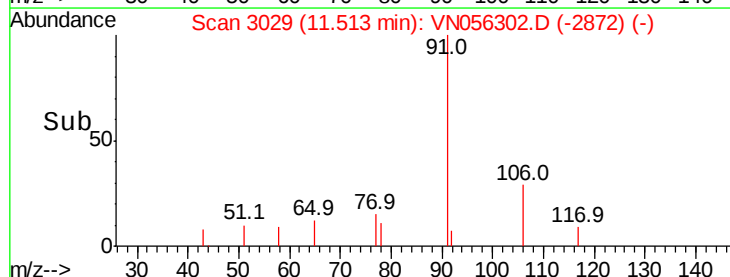
500

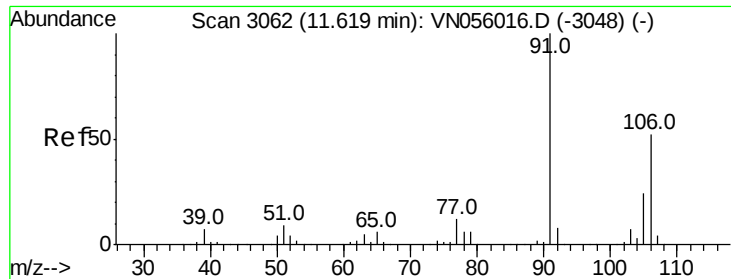
0

11.51

11.55

Time-->

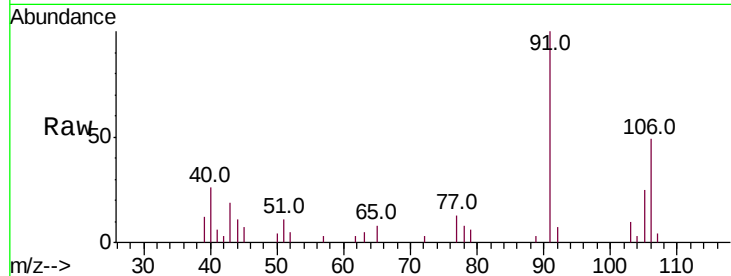




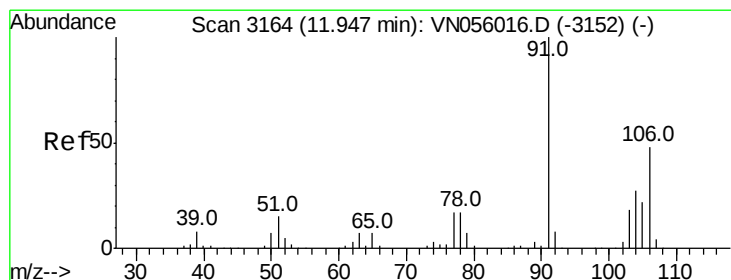
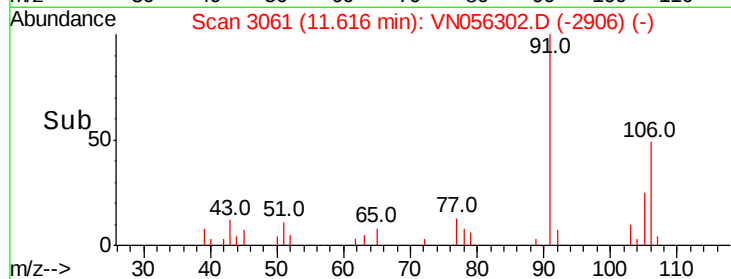
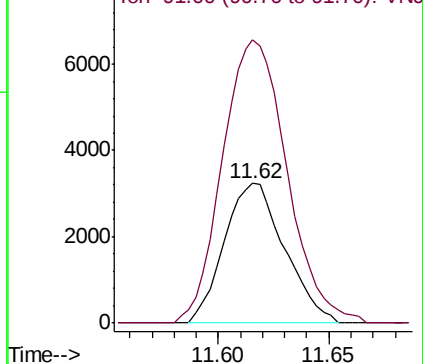
#67
m/p-Xylenes
Concen: 1.038 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN056302.D
Acq: 14 Jun 2019 10:13

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

Tot Ion:106 Resp: 6127
Ion Ratio Lower Upper
106 100
91 217.4 155.7 233.5

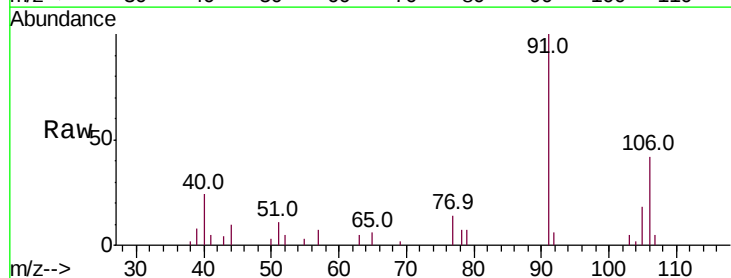


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

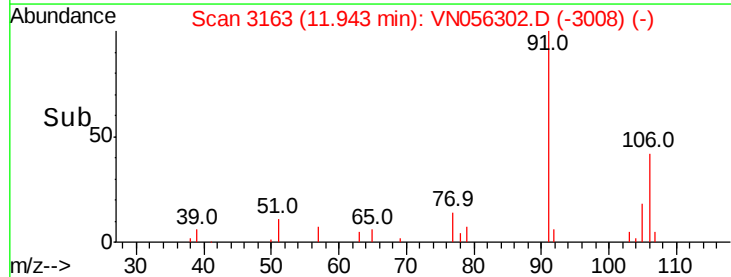
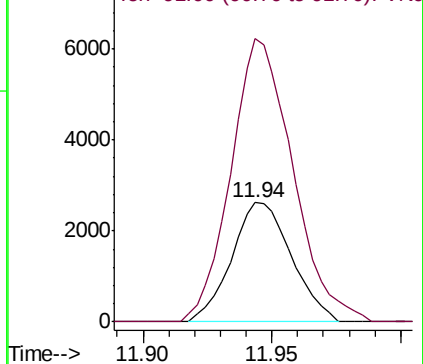


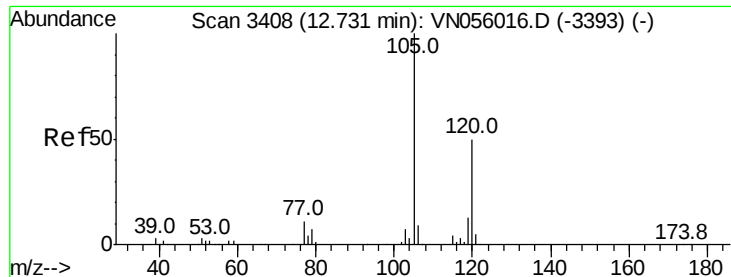
#68
o-Xylene
Concen: 0.734 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN056302.D
Acq: 14 Jun 2019 10:13

Tgt Ion:106 Resp: 4244
Ion Ratio Lower Upper
106 100
91 245.5 103.9 311.7



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0





#76

1,3,5-Trimethylbenzene

Concen: 0.237 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056302.D

Acq: 14 Jun 2019 10:13

Instrument :

MSVOA_N

ClientSampleId :

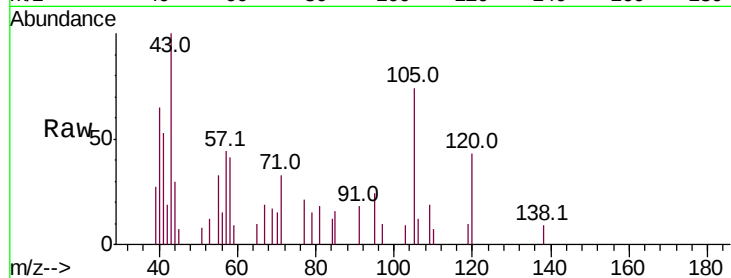
001-WILLETS-PT-BLVD(JUNE)

Tot Ion:105 Resp: 2944

Ion Ratio Lower Upper

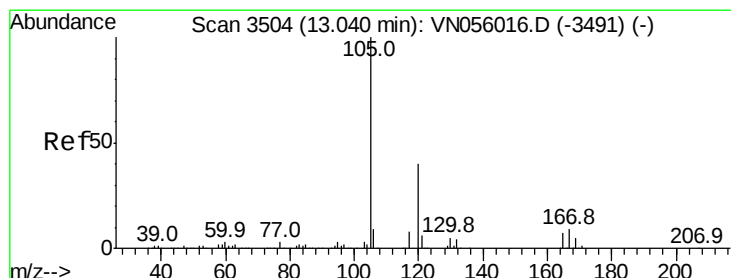
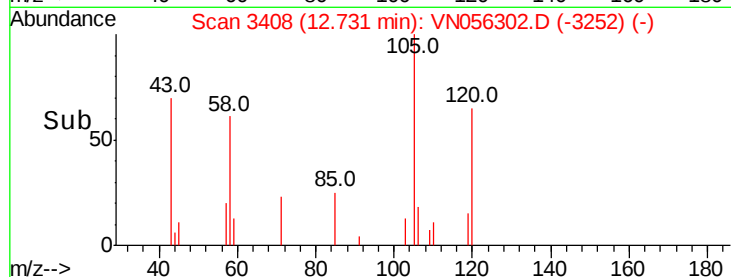
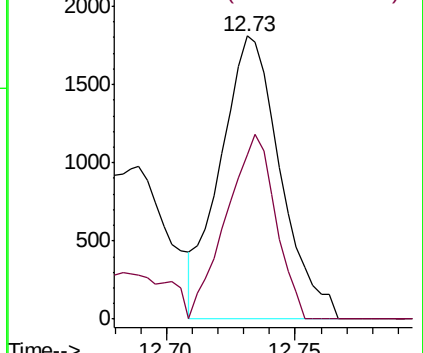
105 100

120 53.5 0.0 100.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,2,4-Trimethylbenzene

Concen: 0.903 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN056302.D

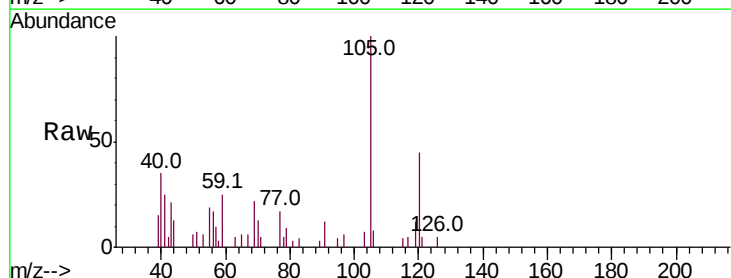
Acq: 14 Jun 2019 10:13

Tgt Ion:105 Resp: 10912

Ion Ratio Lower Upper

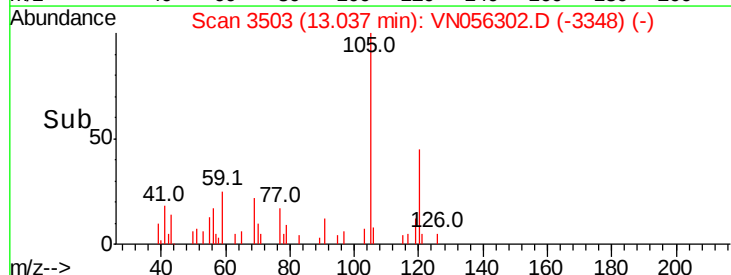
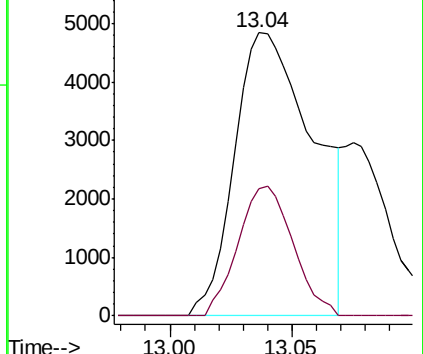
105 100

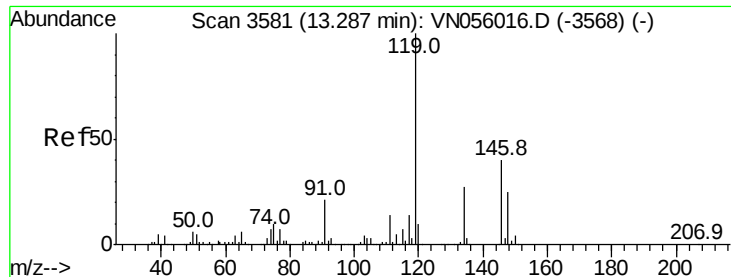
120 31.7 0.0 93.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

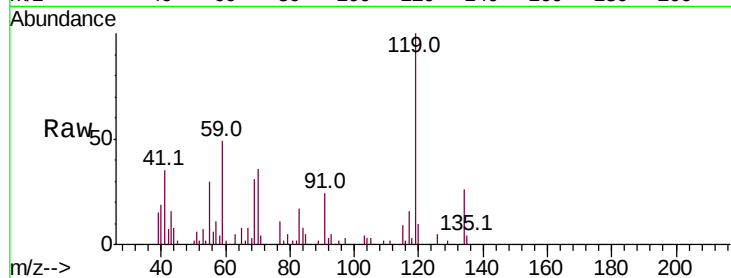




#82
 p-Isopropyltoluene
 Concen: 1.214 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN056302.D
 Acq: 14 Jun 2019 10:13

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

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	0.0	53.4
91	23.4	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

