

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072020\
 Data File : VN062558.D
 Acq On : 20 Jul 2020 13:41
 Operator : JC/MD
 Sample : L3331-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Jul 21 00:54:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jul 14 00:52:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	37797	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	201040	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	183281	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	99883	30.76	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.53%
60) 4-Bromofluorobenzene	12.38	95	82241	26.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.90%
63) Toluene-d8	10.06	98	253223	29.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.47%

Target Compounds

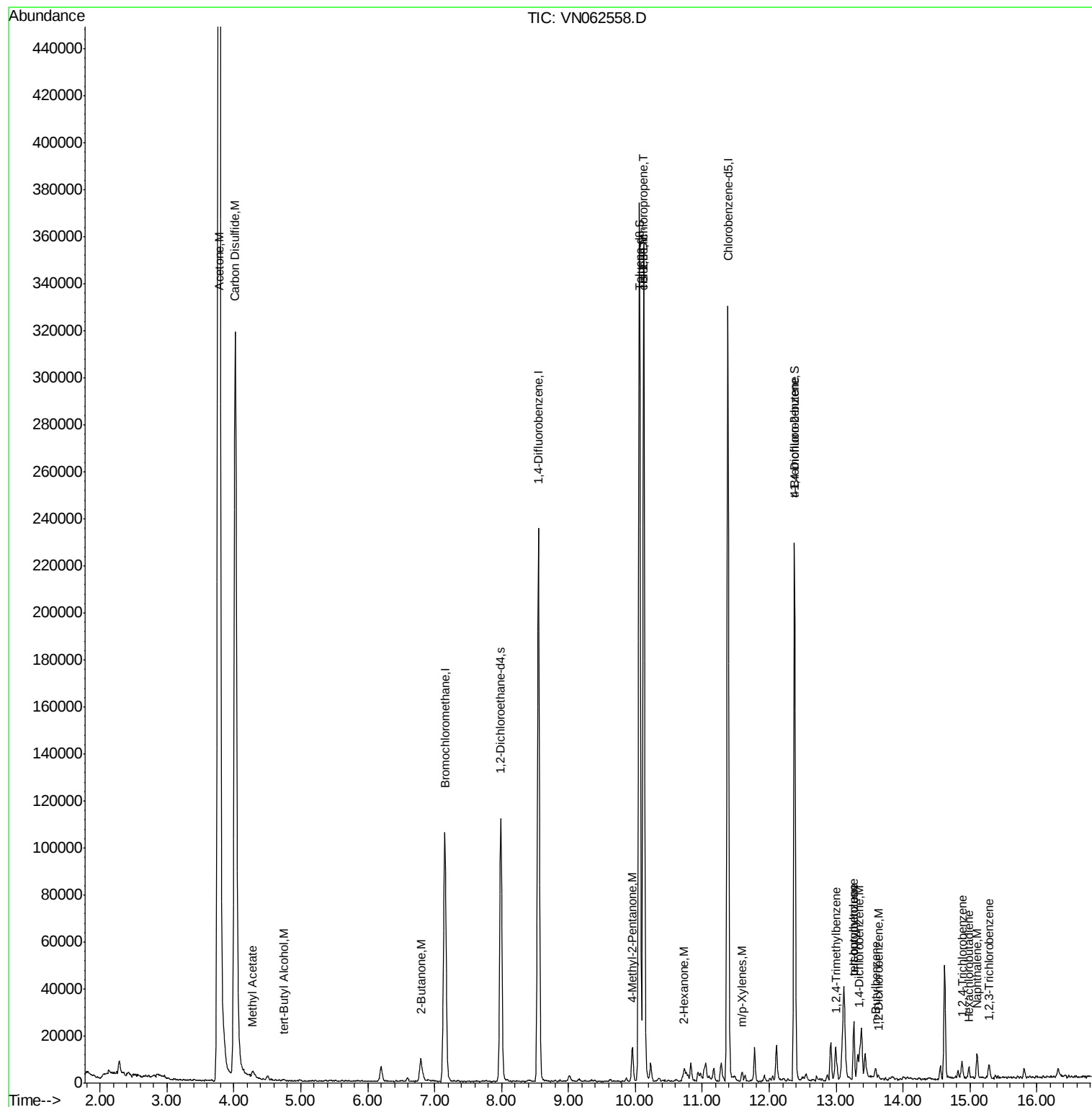
					Ovalue	
12) Methyl Acetate	4.28	43	4608	1.579	ug/l	# 91
15) Acetone	3.78	58	489902	1175.523	ug/l	97
16) Carbon Disulfide	4.01	76	3604	0.508	ug/l	# 95
23) tert-Butyl Alcohol	4.74	59	152	0.335	ug/l	# 100
30) 2-Butanone	6.80	43	18338	10.140	ug/l	# 83
49) cis-1,3-Dichloropropene	10.12	75	1957	0.441	ug/l	# 1
58) 4-Methyl-2-Pentanone	9.95	43	11551	3.235	ug/l	96
59) 2-Hexanone	10.73	43	3365	1.285	ug/l	94
62) Toluene	10.13	91	272970	26.253	ug/l	100
67) m/p-Xylenes	11.60	106	1453	0.348	ug/l	82
77) t-1,4-Dichloro-2-butene	12.38	75	43167	34.100	ug/l	# 11
79) tert-butylbenzene	13.27	119	3000	0.395	ug/l	64
80) 1,2,4-Trimethylbenzene	13.01	105	1895	0.210	ug/l	77
82) p-Isopropyltoluene	13.27	119	3000	0.333	ug/l	87
84) 1,4-Dichlorobenzene	13.34	146	977	0.229	ug/l	71
85) n-Butylbenzene	13.59	91	3249	0.421	ug/l	87
87) 1,2-Dichlorobenzene	13.63	146	841	0.202	ug/l	76
89) 1,2,4-Trichlorobenzene	14.89	180	1639	0.791	ug/l	92
90) Hexachlorobutadiene	14.99	225	745	0.648	ug/l	86
91) Naphthalene	15.10	128	9394	1.671	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	2278	1.090	ug/l	88

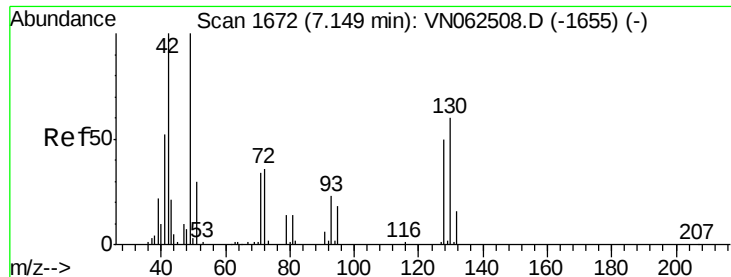
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 14 00:52:57 2020
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1673

Delta R.T. 0.00 min

Lab File: VN062558.D

Acq: 20 Jul 2020 13:41

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD-(JULY)

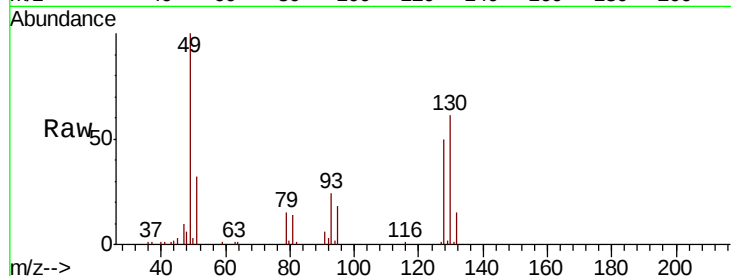
Tot Ion:128 Resp: 37797

Ion Ratio Lower Upper

128 100

49 203.1 0.0 525.0

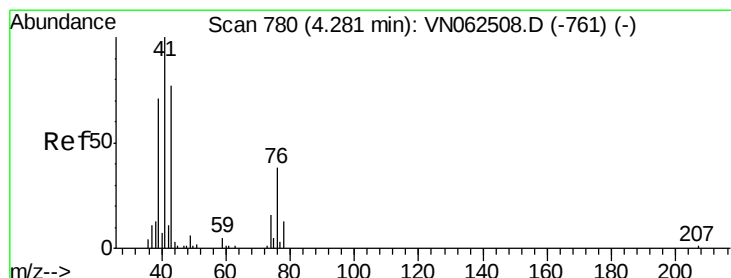
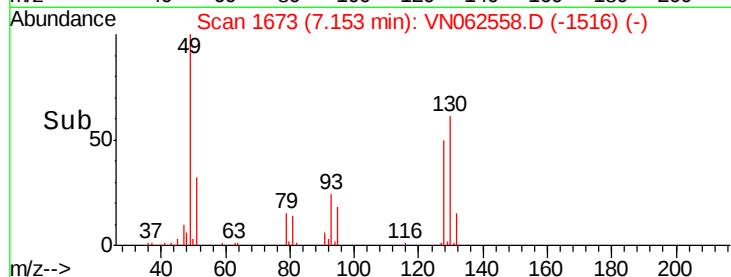
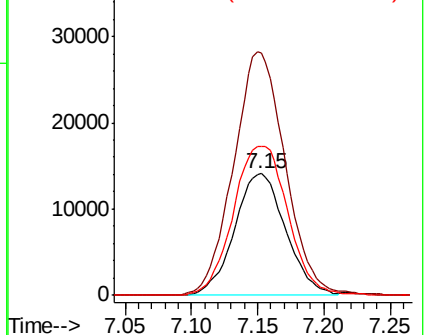
130 131.1 0.0 319.8



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: 1.579 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.00 min

Lab File: VN062558.D

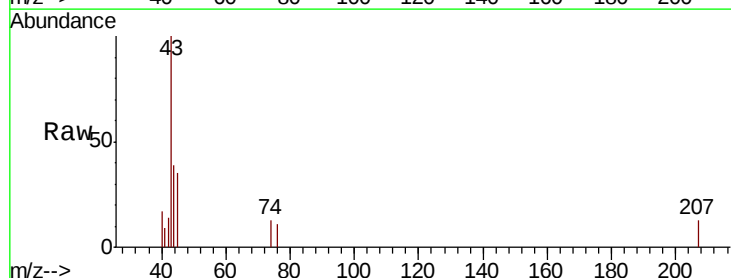
Acq: 20 Jul 2020 13:41

Tgt Ion: 43 Resp: 4608

Ion Ratio Lower Upper

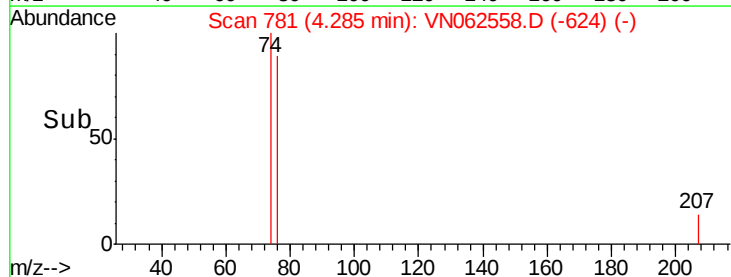
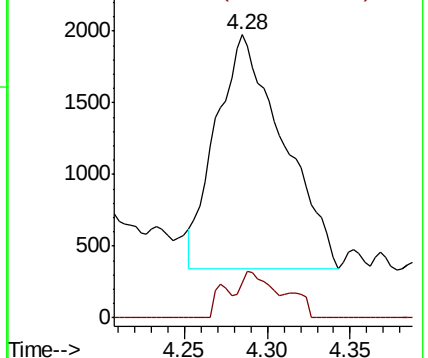
43 100

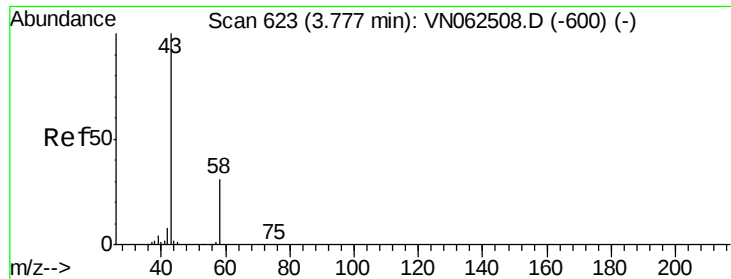
74 16.7 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN

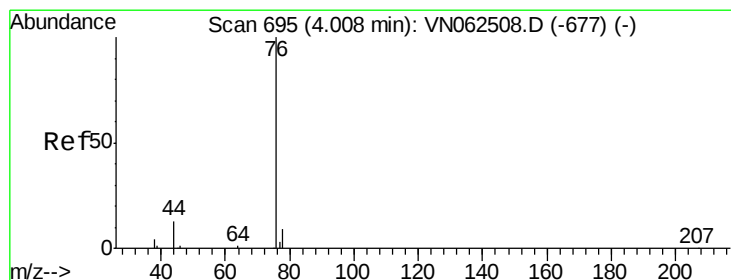
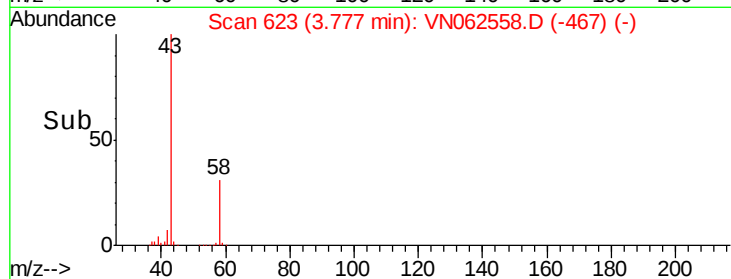
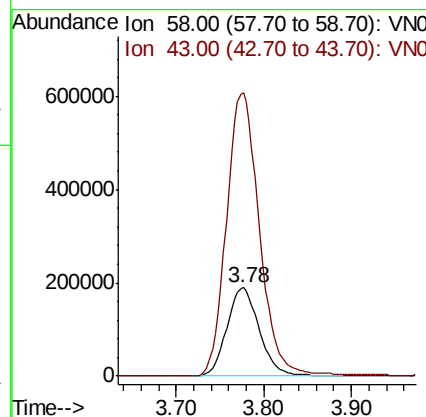
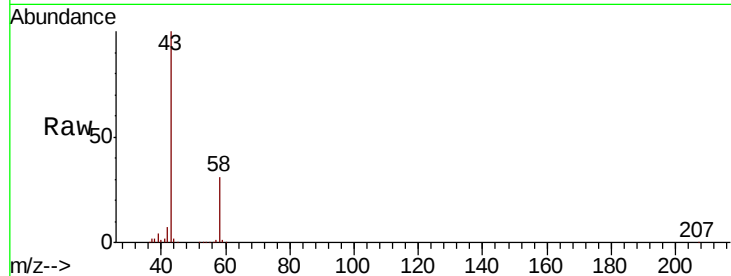




#15
Acetone
Concen: 1175.523 ug/l
RT: 3.78 min Scan# 623
Delta R.T. 0.00 min
Lab File: VN062558.D
Acq: 20 Jul 2020 13:41

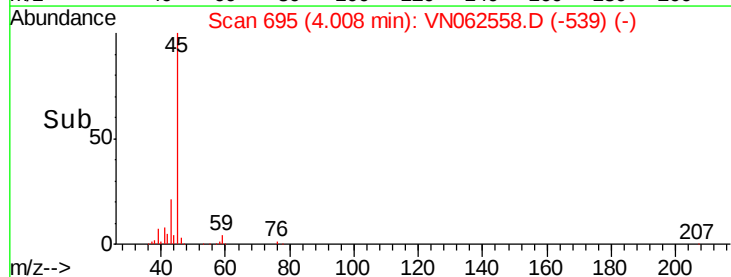
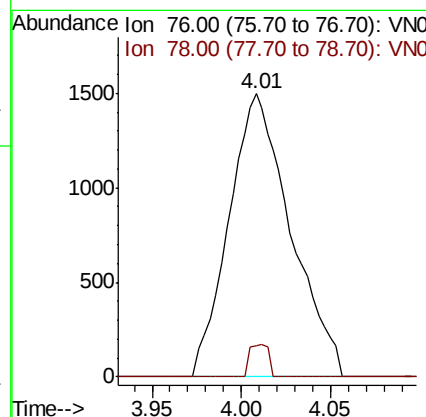
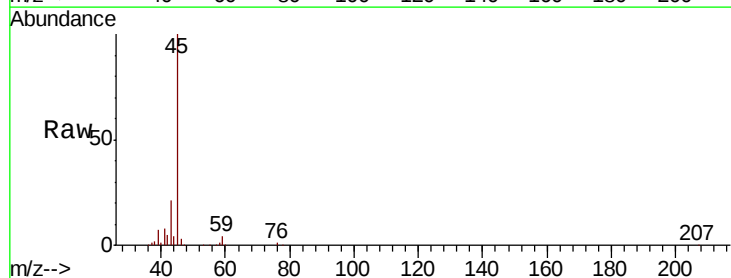
Instrument :
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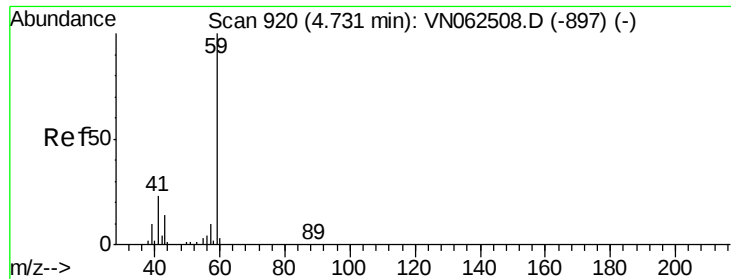
Tot Ion: 58 Resp: 489902
Ion Ratio Lower Upper
58 100
43 320.6 261.1 391.7



#16
Carbon Disulfide
Concen: 0.508 ug/l
RT: 4.01 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN062558.D
Acq: 20 Jul 2020 13:41

Tgt Ion: 76 Resp: 3604
Ion Ratio Lower Upper
76 100
78 11.2 7.4 11.0#



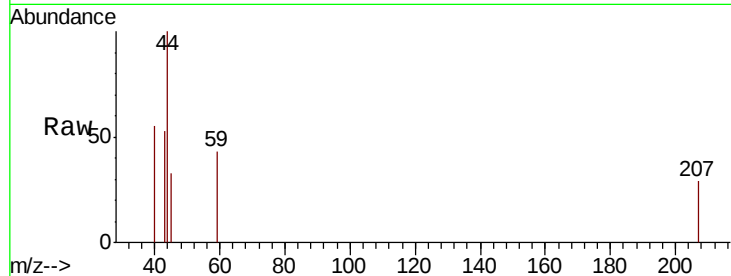


#23

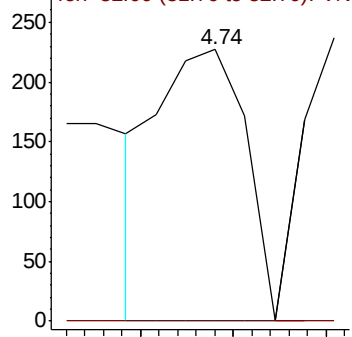
tert-Butyl Alcohol
 Concen: 0.335 ug/l
 RT: 4.74 min Scan# 922
 Delta R.T. 0.01 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

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

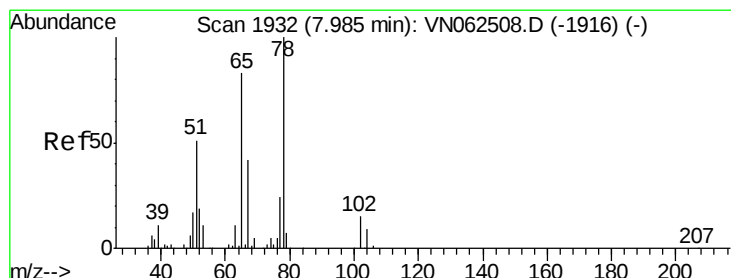
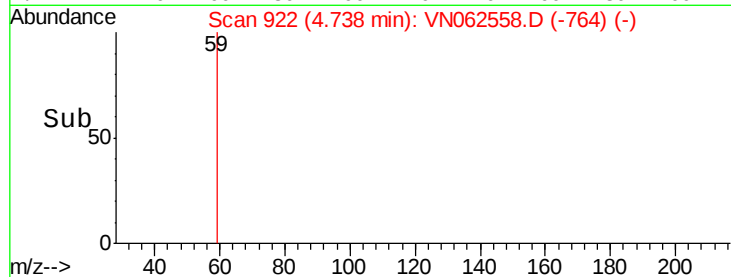
Tot Ion: 59 Resp: 152
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0
 Ion 52.00 (51.70 to 52.70): VN0



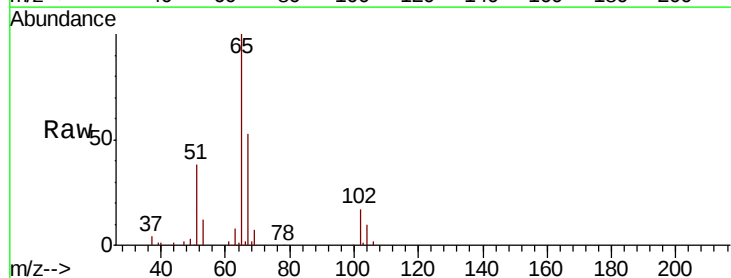
Time-->



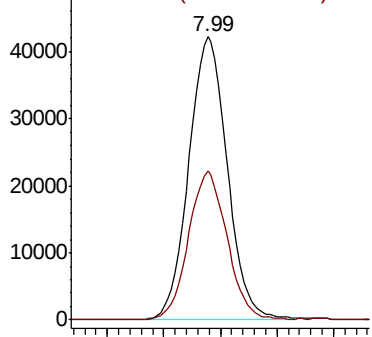
#27

1,2-Dichloroethane-d4
 Concen: 30.762 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

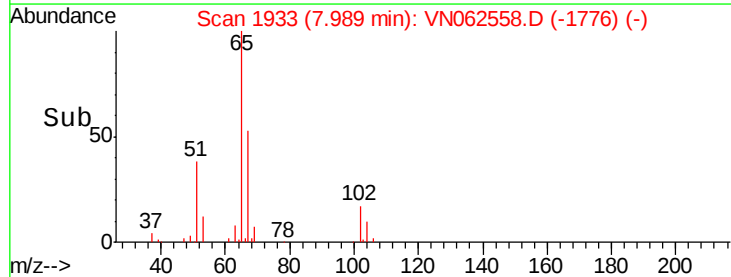
Tgt Ion: 65 Resp: 99883
 Ion Ratio Lower Upper
 65 100
 67 52.7 41.7 62.5

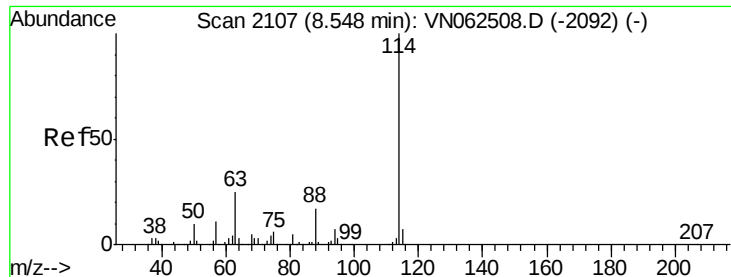


Abundance Ion 65.00 (64.70 to 65.70): VN0
 Ion 67.00 (66.70 to 67.70): VN0



Time-->





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062558.D

Acq: 20 Jul 2020 13:41

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD-(JULY)

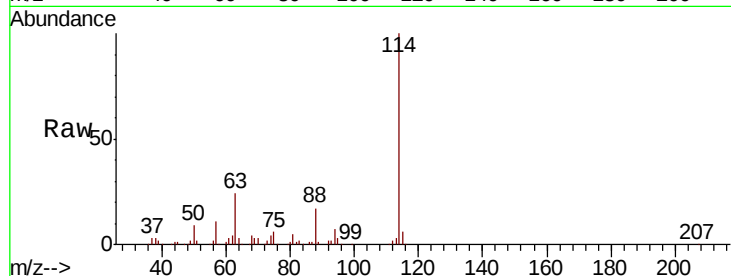
Tot Ion:114 Resp: 201040

Ion Ratio Lower Upper

114 100

63 23.7 19.4 29.0

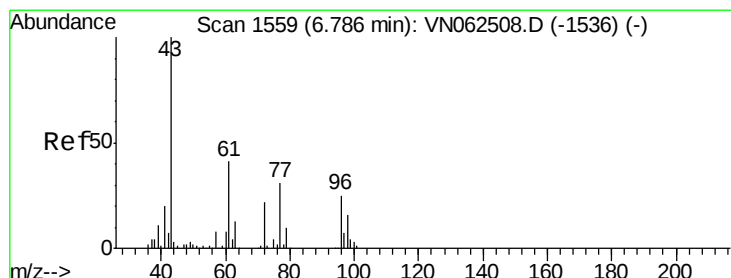
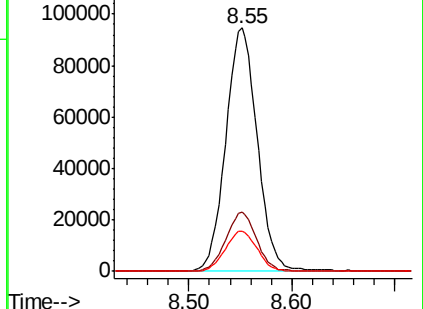
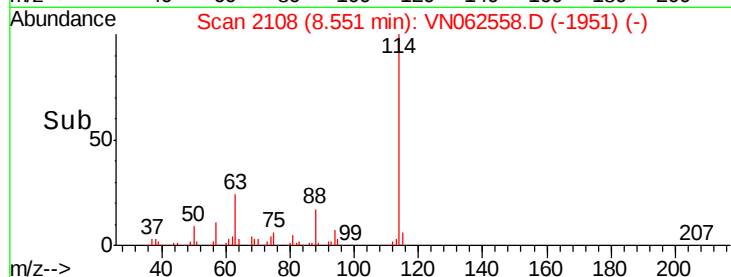
88 16.8 13.5 20.3



Abundance Ion 114.00 (113.70 to 114.70): VN062508.D (-2092) (-)

Ion 63.00 (62.70 to 63.70): VN062508.D (-2092) (-)

Ion 88.00 (87.70 to 88.70): VN062508.D (-2092) (-)



#30

2-Butanone

Concen: 10.140 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VN062558.D

Acq: 20 Jul 2020 13:41

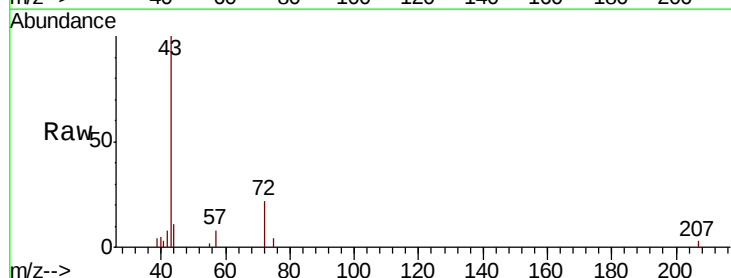
Tgt Ion: 43 Resp: 18338

Ion Ratio Lower Upper

43 100

57 5.6 6.6 9.8#

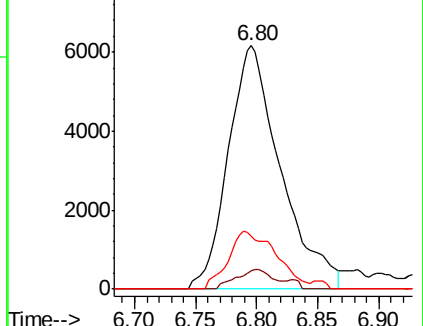
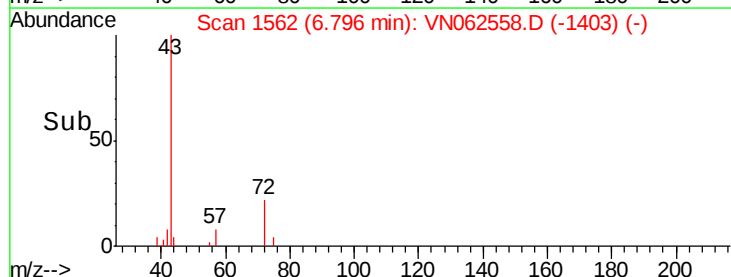
72 13.5 18.5 27.7#

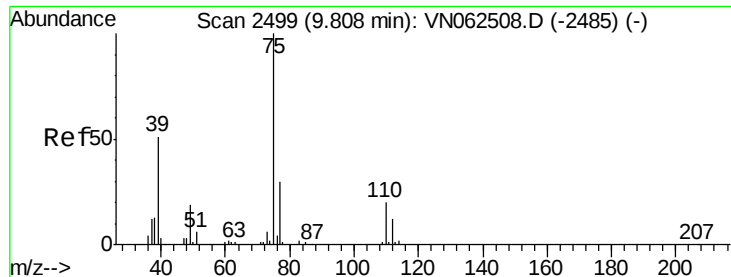


Abundance Ion 43.00 (42.70 to 43.70): VN062508.D (-1536) (-)

Ion 57.00 (56.70 to 57.70): VN062508.D (-1536) (-)

Ion 72.00 (71.70 to 72.70): VN062508.D (-1536) (-)





#49

cis-1,3-Dichloropropene

Concen: 0.441 ug/l

RT: 10.12 min Scan# 2596

Delta R.T. 0.31 min

Lab File: VN062558.D

Acq: 20 Jul 2020 13:41

Instrument :

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ClientSampleId :

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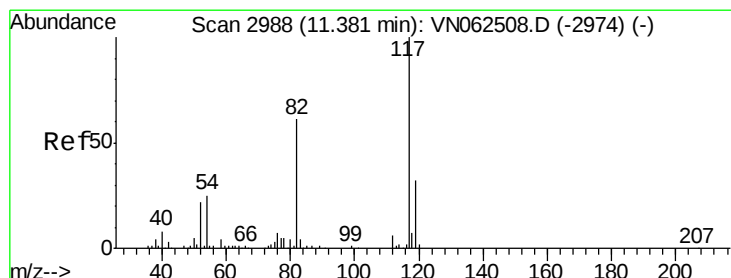
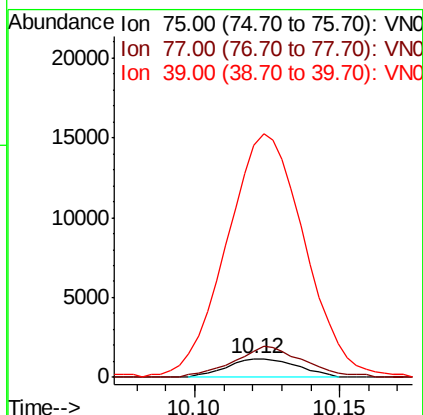
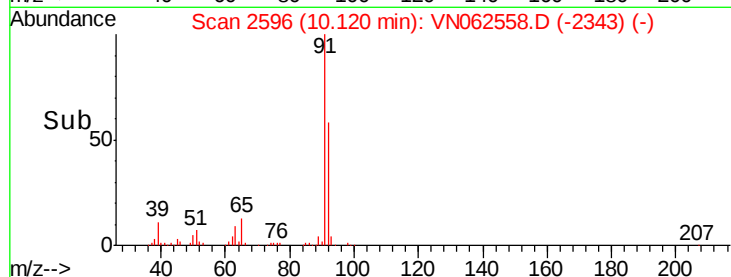
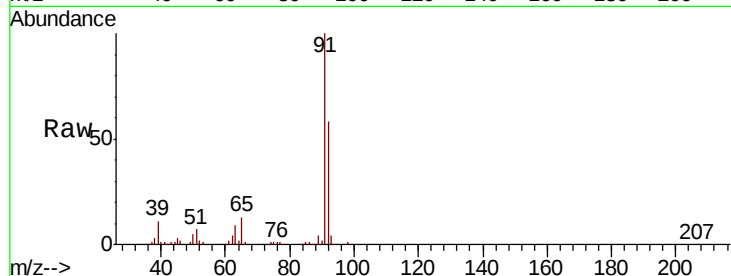
Tot Ion: 75 Resp: 1957

Ion Ratio Lower Upper

75 100

77 129.2 23.7 35.5#

39 1120.0 40.5 60.7#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062558.D

Acq: 20 Jul 2020 13:41

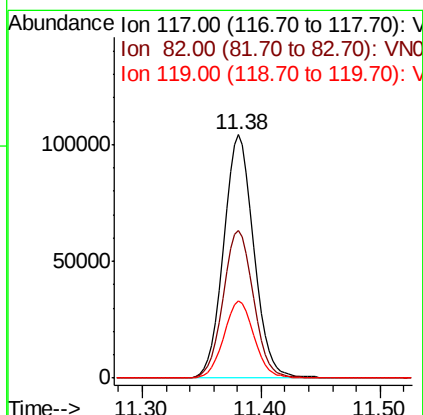
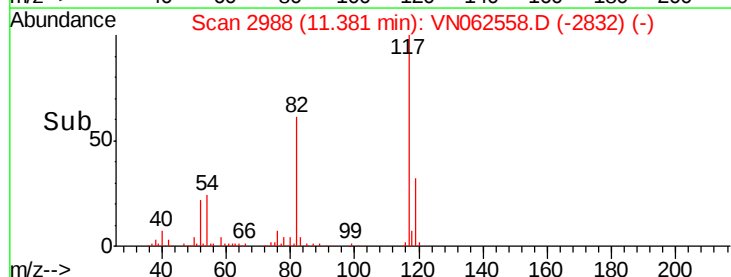
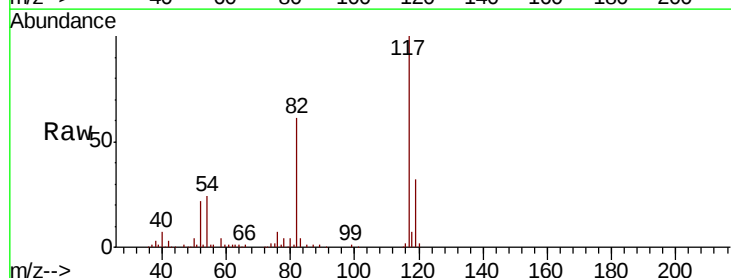
Tgt Ion: 117 Resp: 183281

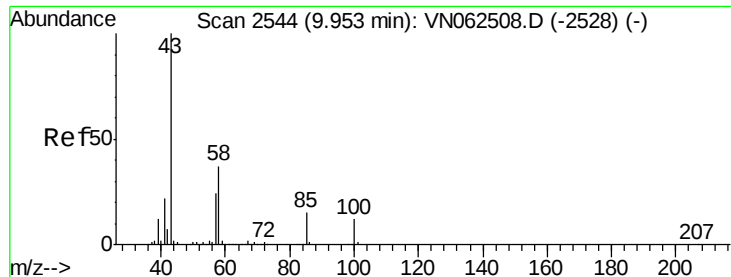
Ion Ratio Lower Upper

117 100

82 61.2 49.0 73.6

119 31.9 25.6 38.4

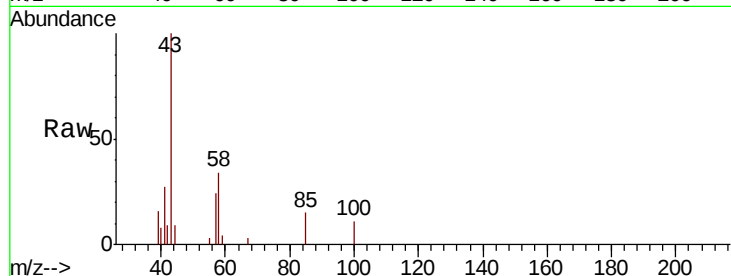




#58
 4-Methyl-2-Pentanone
 Concen: 3.235 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN062558.D
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Tot Ion	Ratio	Lower	Upper
43	100		
58	34.2	29.6	44.4
85	13.6	12.0	18.0

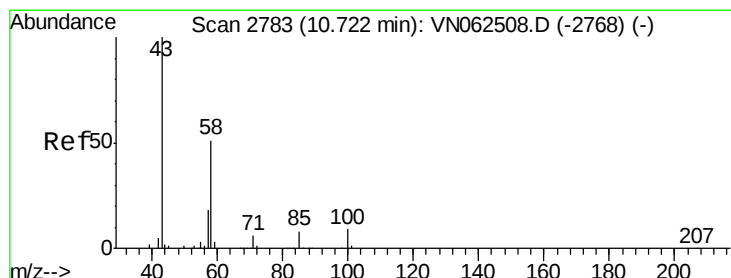
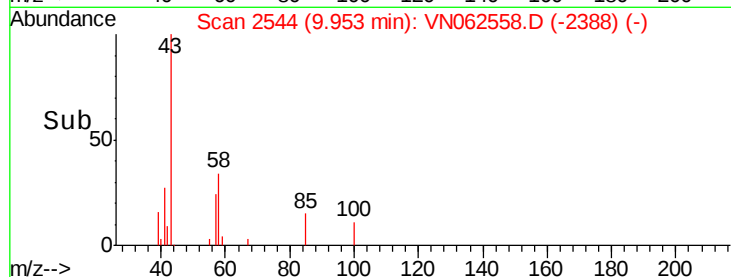
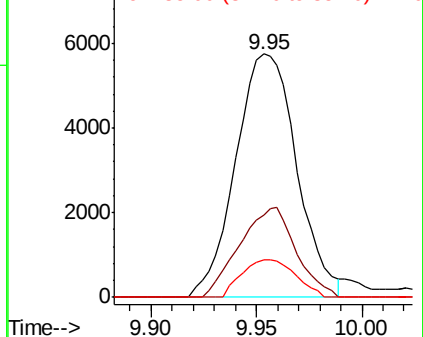


Abundance

Ion 43.00 (42.70 to 43.70): VN0

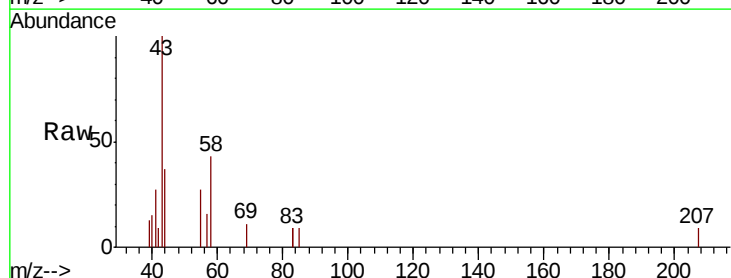
Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#59
 2-Hexanone
 Concen: 1.285 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.01 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	46.5	41.2	61.8
57	18.9	14.4	21.6

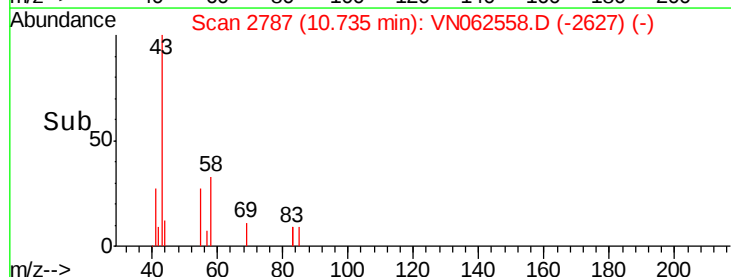
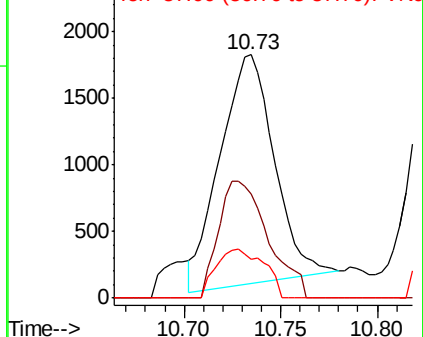


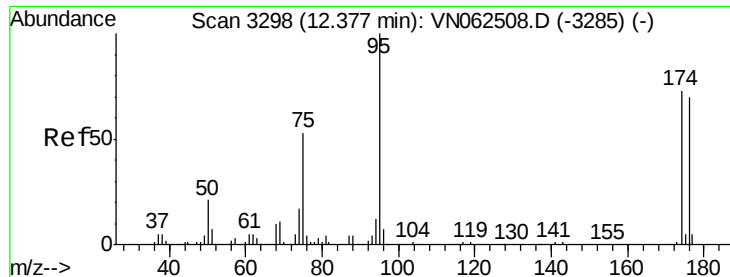
Abundance

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





#60

4-Bromofluorobenzene

Concen: 26.368 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062558.D

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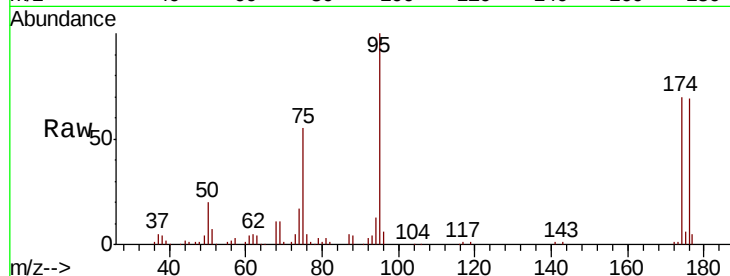
Tot Ion: 95 Resp: 82241

Ion Ratio Lower Upper

95 100

174 71.8 57.5 86.3

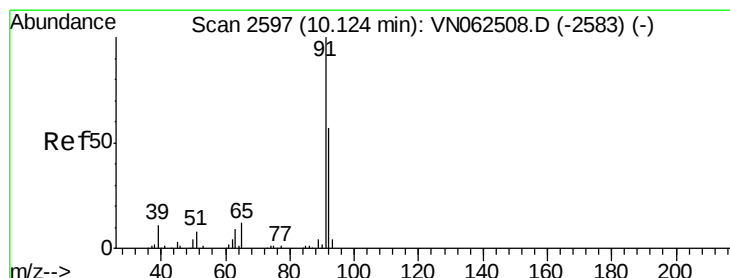
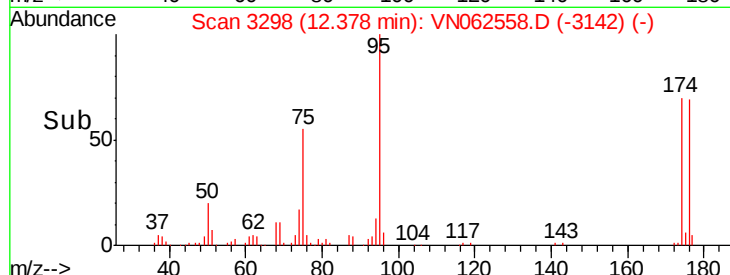
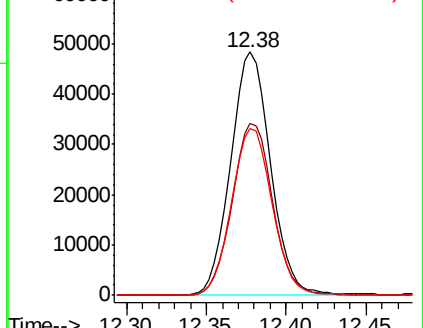
176 69.7 56.3 84.5



Abundance Ion 95.00 (94.70 to 95.70): VN062558.D (-3142) (-)

Ion 174.00 (173.70 to 174.70): VN062558.D (-3142) (-)

Ion 176.00 (175.70 to 176.70): VN062558.D (-3142) (-)



#62

Toluene

Concen: 26.253 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN062558.D

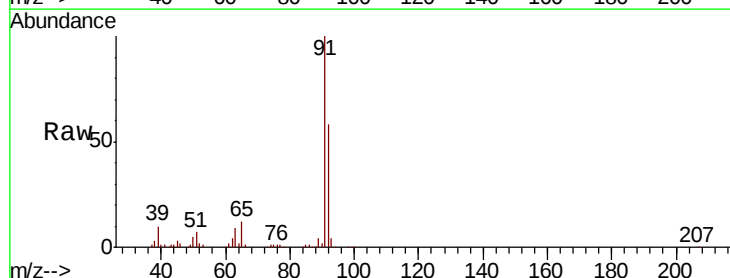
Acq: 20 Jul 2020 13:41

Tgt Ion: 91 Resp: 272970

Ion Ratio Lower Upper

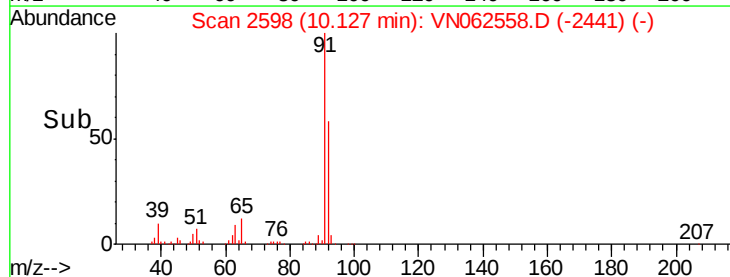
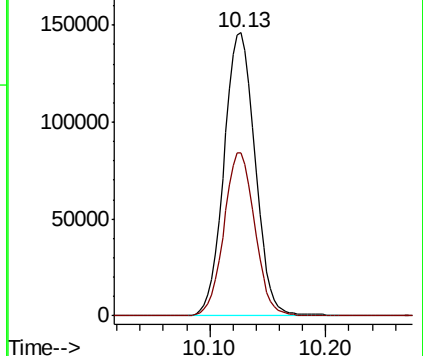
91 100

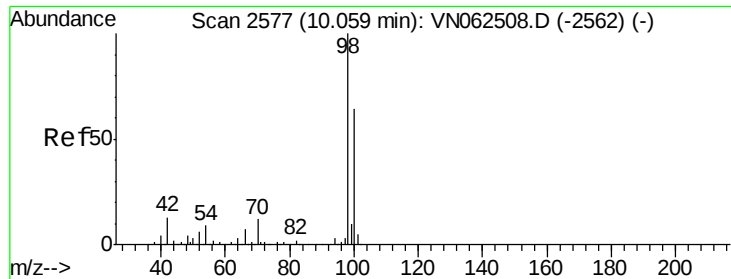
92 57.0 45.8 68.6



Abundance Ion 91.00 (90.70 to 91.70): VN062558.D (-2441) (-)

Ion 92.00 (91.70 to 92.70): VN062558.D (-2441) (-)

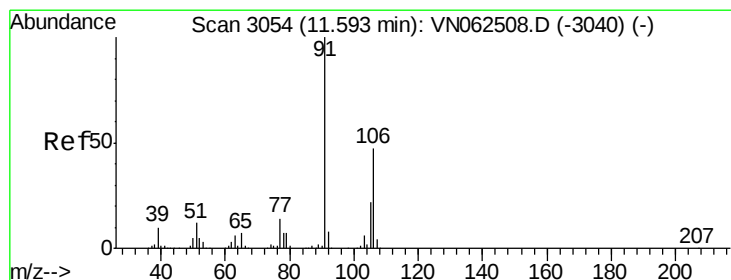
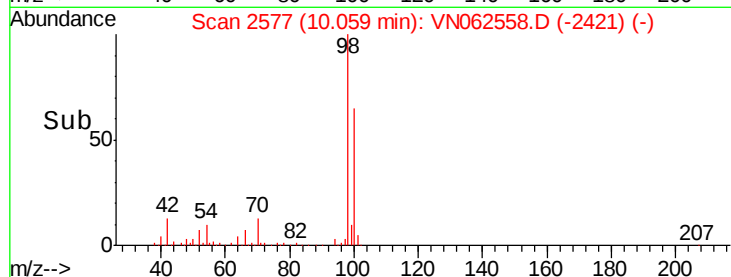
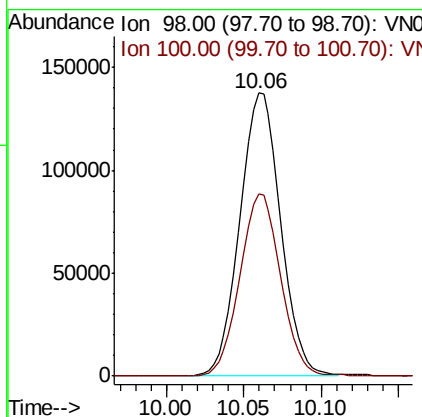
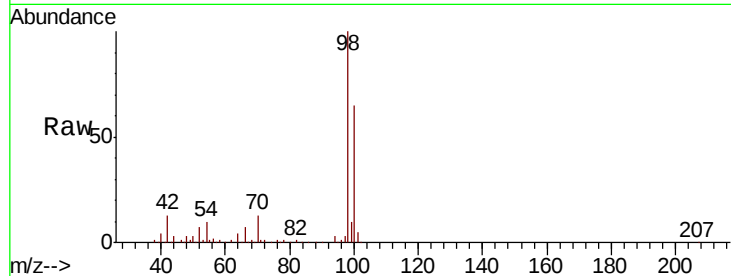




#63
Toluene-d8
Concen: 29.239 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062558.D
Acq: 20 Jul 2020 13:41

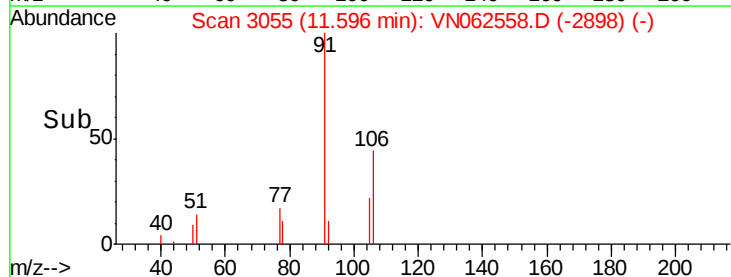
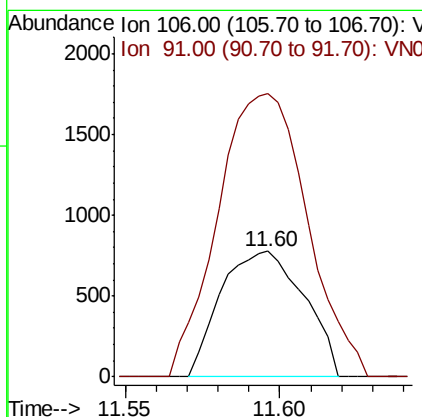
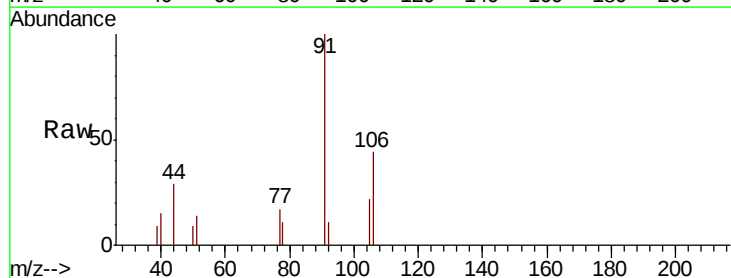
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD-(JULY)

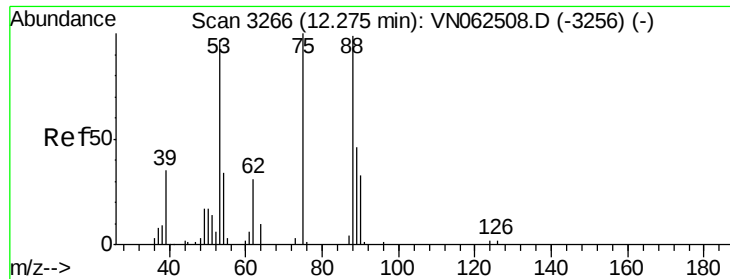
Tot Ion: 98 Resp: 253223
Ion Ratio Lower Upper
98 100
100 64.2 50.4 75.6



#67
m/p-Xylenes
Concen: 0.348 ug/l
RT: 11.60 min Scan# 3055
Delta R.T. 0.00 min
Lab File: VN062558.D
Acq: 20 Jul 2020 13:41

Tgt Ion: 106 Resp: 1453
Ion Ratio Lower Upper
106 100
91 242.4 170.7 256.1

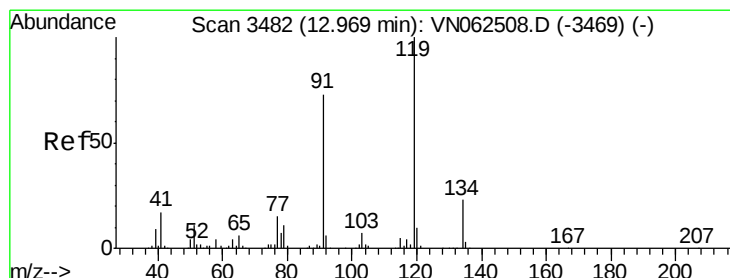
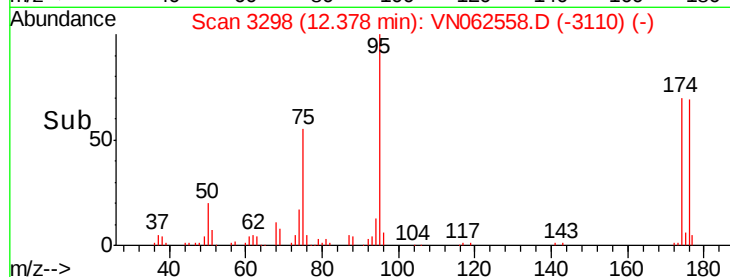
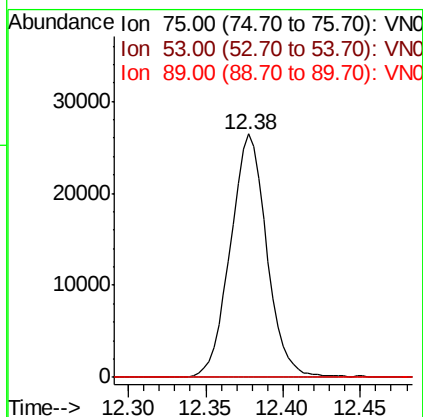
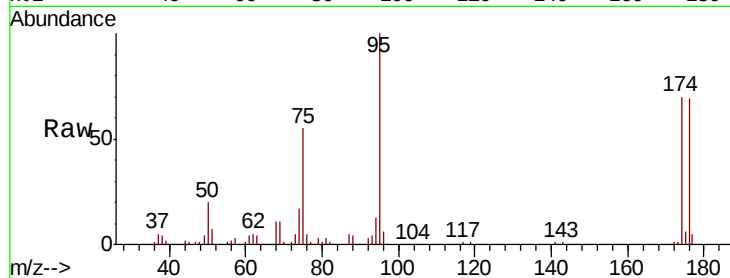




#77
t-1,4-Dichloro-2-butene
Concen: 34.100 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN062558.D
Acq: 20 Jul 2020 13:41

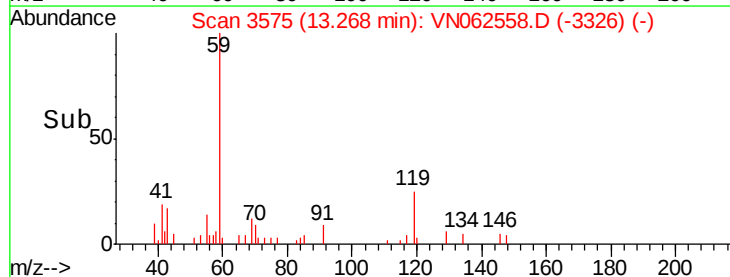
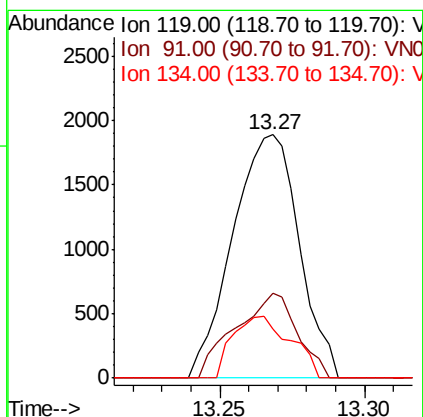
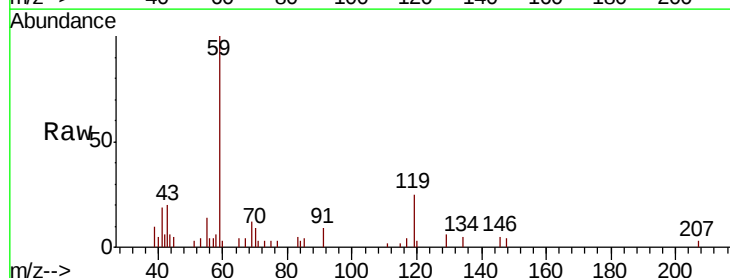
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD-(JULY)

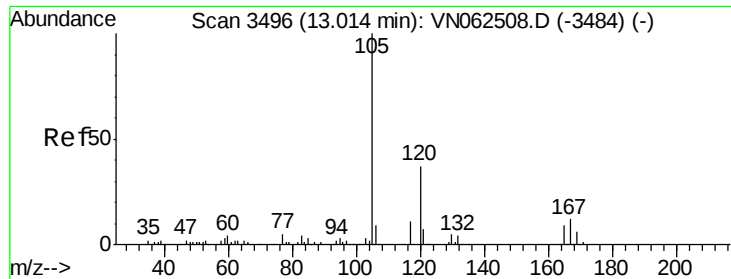
Tot Ion: 75 Resp: 43167
Ion Ratio Lower Upper
75 100
53 0.0 48.3 144.8#
89 0.0 23.3 69.8#



#79
tert-butylbenzene
Concen: 0.395 ug/l
RT: 13.27 min Scan# 3575
Delta R.T. 0.30 min
Lab File: VN062558.D
Acq: 20 Jul 2020 13:41

Tgt Ion: 119 Resp: 3000
Ion Ratio Lower Upper
119 100
91 32.6 0.0 139.8
134 19.0 0.0 45.0

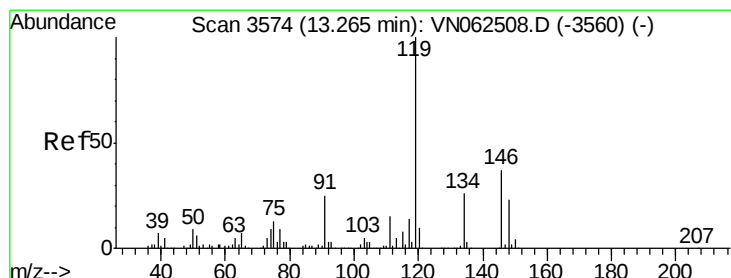
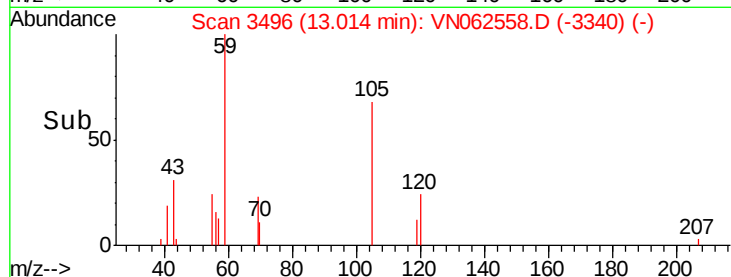
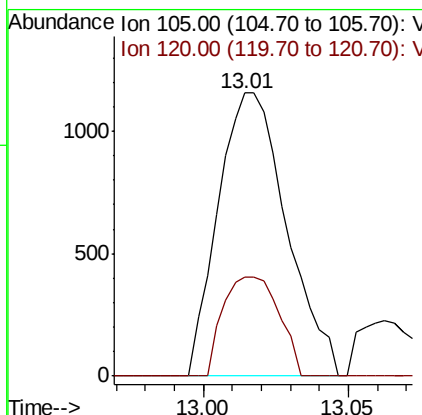
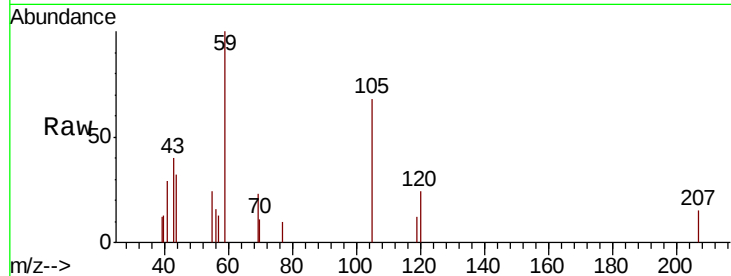




#80
 1,2,4-Trimethylbenzene
 Concen: 0.210 ug/l
 RT: 13.01 min Scan# 3496
 Delta R.T. 0.00 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

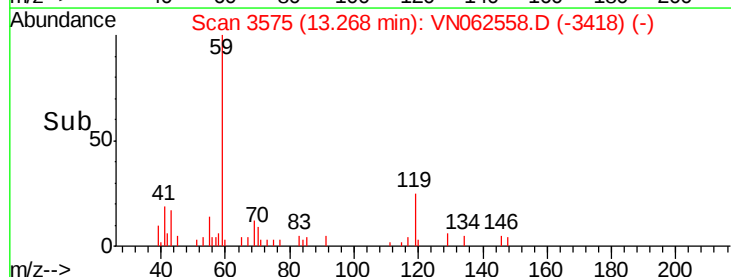
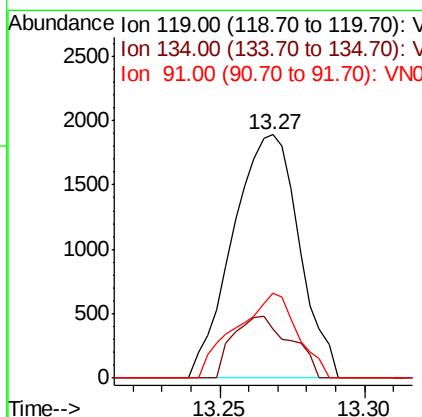
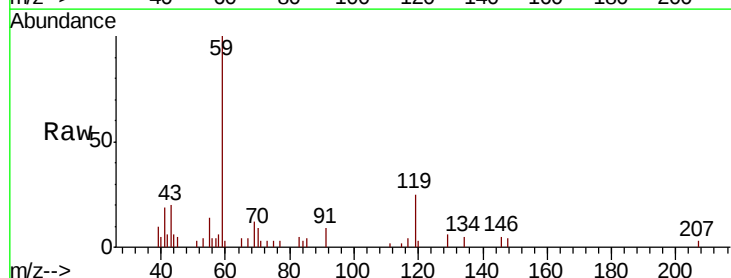
Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD-(JULY)

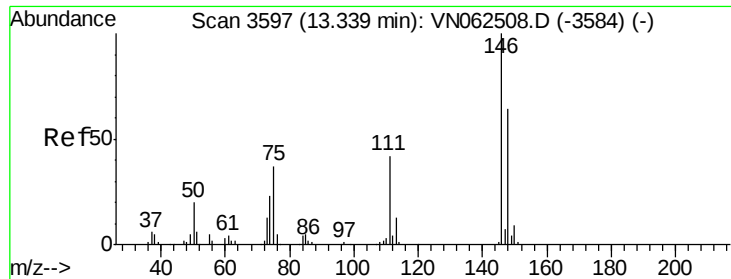
Tot Ion:105 Resp: 1895
 Ion Ratio Lower Upper
 105 100
 120 28.4 0.0 86.6



#82
 p-Isopropyltoluene
 Concen: 0.333 ug/l
 RT: 13.27 min Scan# 3575
 Delta R.T. 0.00 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

Tgt Ion:119 Resp: 3000
 Ion Ratio Lower Upper
 119 100
 134 19.0 0.0 50.8
 91 32.6 0.0 51.2

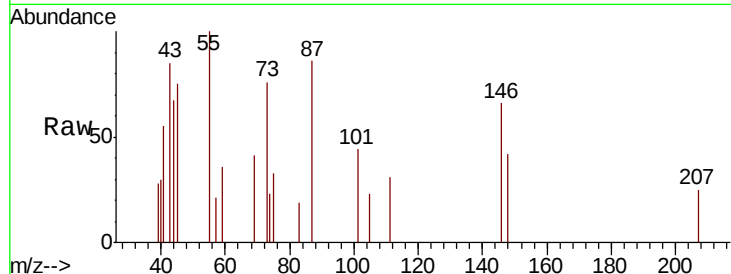




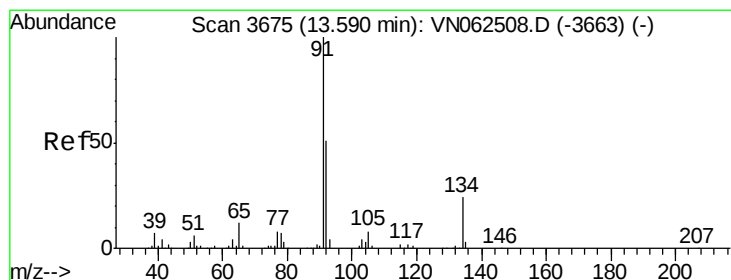
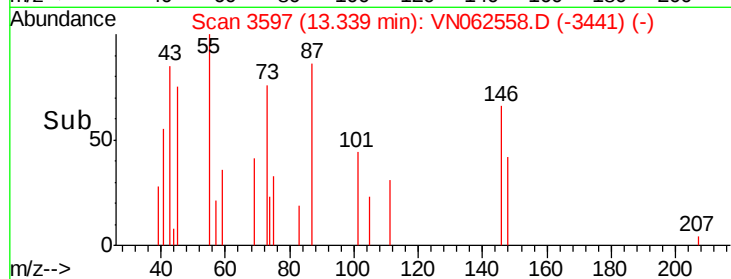
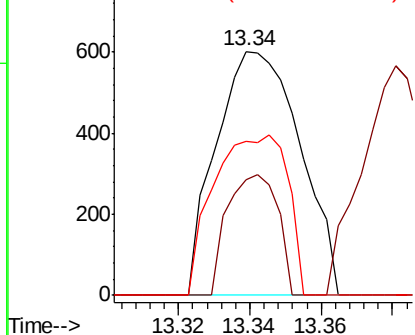
#84
 1,4-Dichlorobenzene
 Concen: 0.229 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

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

Tot Ion:146 Resp: 977
 Ion Ratio Lower Upper
 146 100
 111 29.6 21.4 64.2
 148 37.7 32.4 97.2

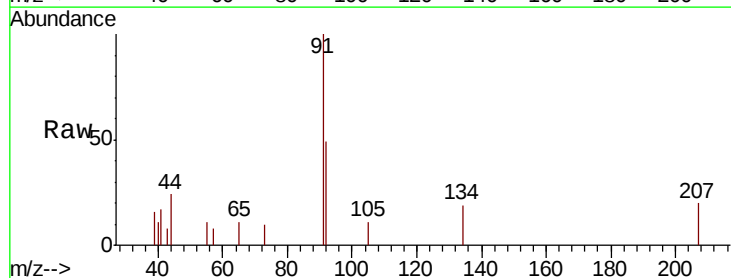


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

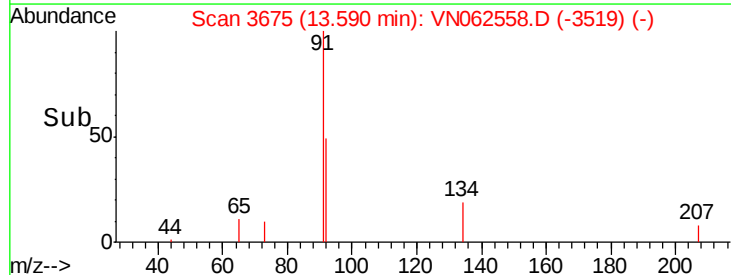
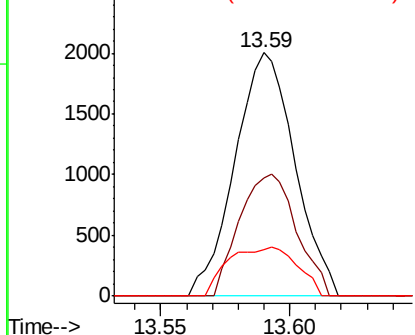


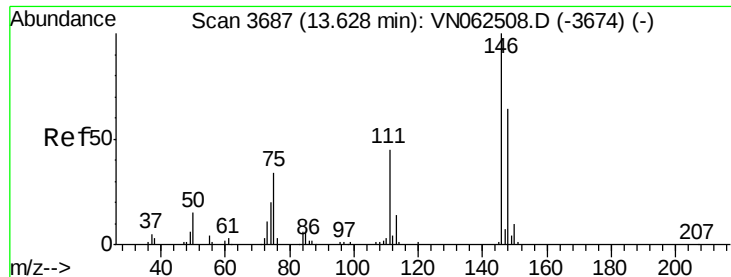
#85
 n-Butylbenzene
 Concen: 0.421 ug/l
 RT: 13.59 min Scan# 3675
 Delta R.T. 0.00 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

Tgt Ion: 91 Resp: 3249
 Ion Ratio Lower Upper
 91 100
 92 47.7 0.0 102.4
 134 8.5 0.0 46.6



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 92.00 (91.70 to 92.70): V
 Ion 134.00 (133.70 to 134.70): V

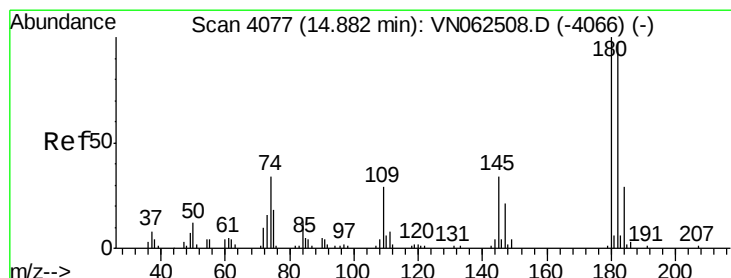
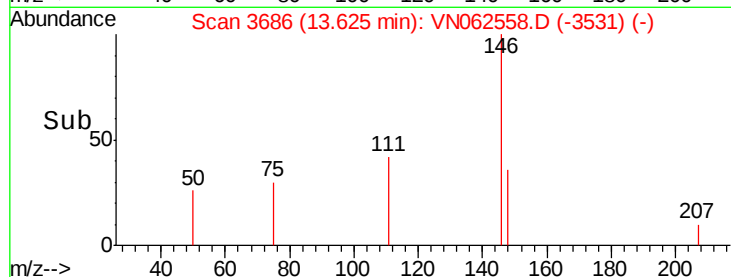
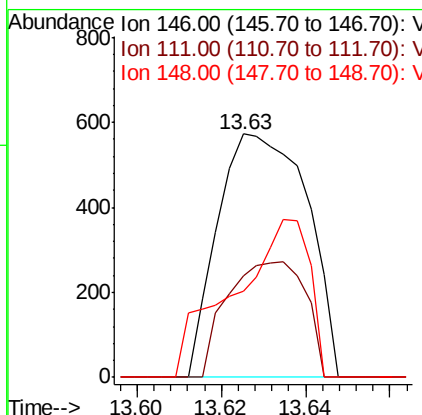
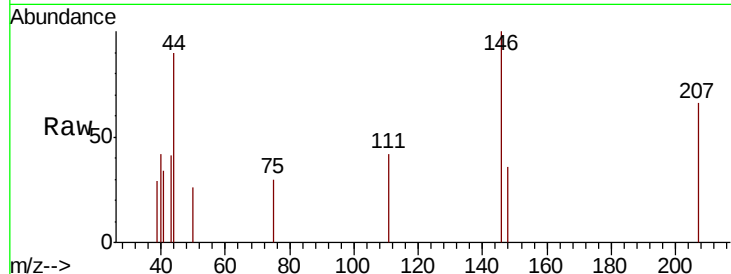




#87
 1,2-Dichlorobenzene
 Concen: 0.202 ug/l
 RT: 13.63 min Scan# 3686
 Delta R.T. -0.00 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

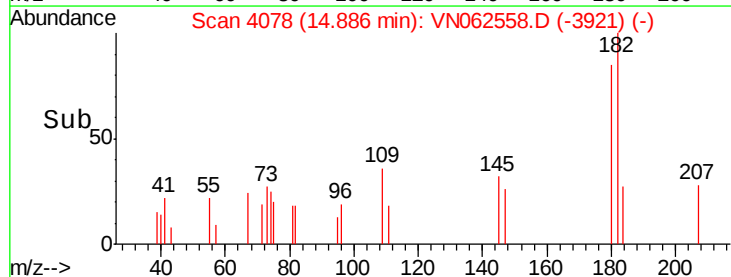
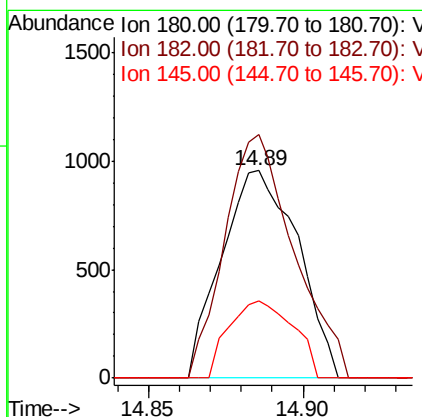
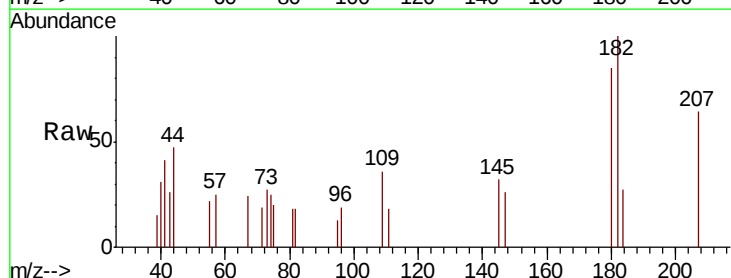
Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD-(JULY)

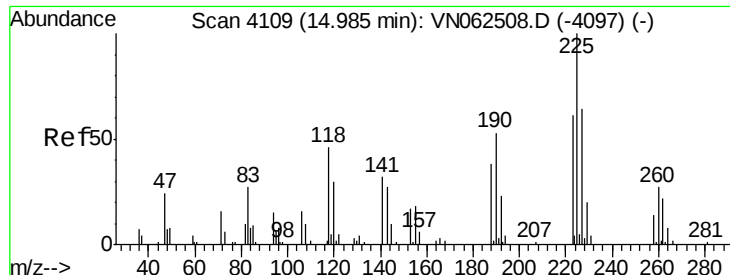
Tot Ion:146 Resp: 841
 Ion Ratio Lower Upper
 146 100
 111 41.4 22.4 67.0
 148 35.4 32.1 96.3



#89
 1,2,4-Trichlorobenzene
 Concen: 0.791 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

Tgt Ion:180 Resp: 1639
 Ion Ratio Lower Upper
 180 100
 182 106.5 77.5 116.3
 145 31.6 26.1 39.1

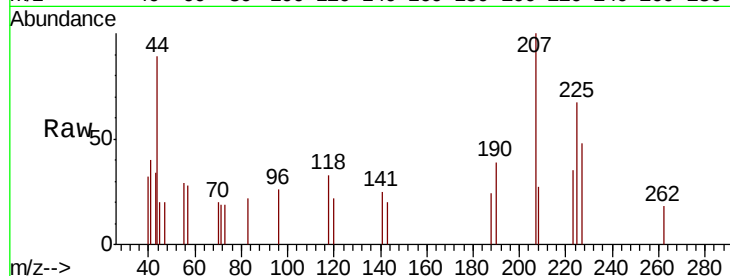




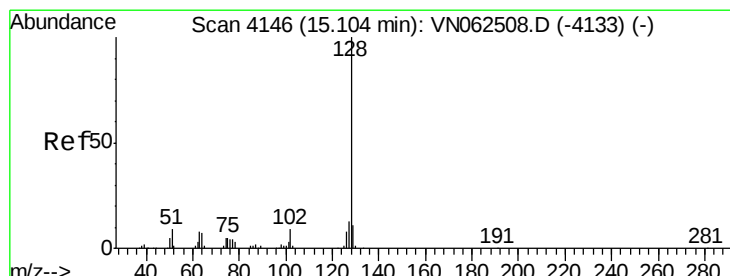
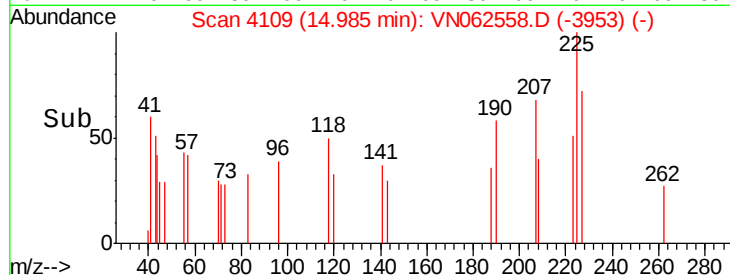
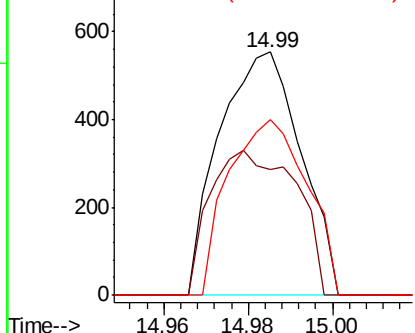
#90
Hexachlorobutadiene
Concen: 0.648 ug/l
RT: 14.99 min Scan# 4109
Delta R.T. 0.00 min
Lab File: VN062558.D
Acq: 20 Jul 2020 13:41

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

Tot Ion:225 Resp: 745
Ion Ratio Lower Upper
225 100
223 43.5 0.0 120.4
227 69.7 0.0 129.6

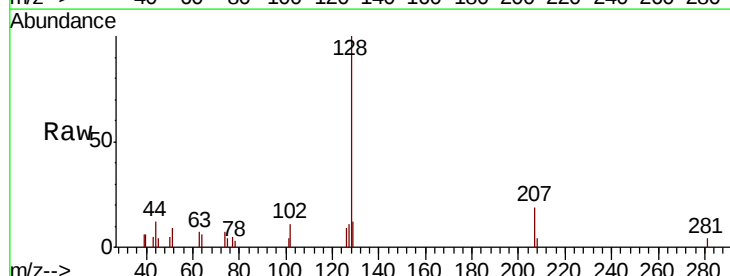


Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V

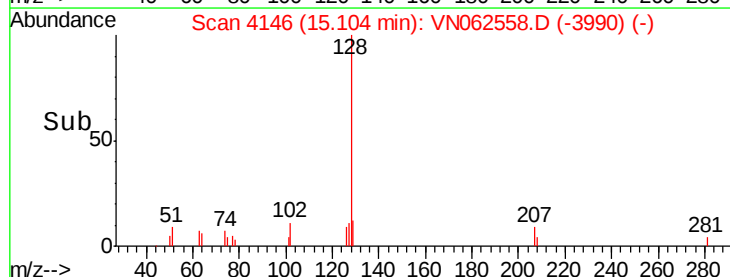
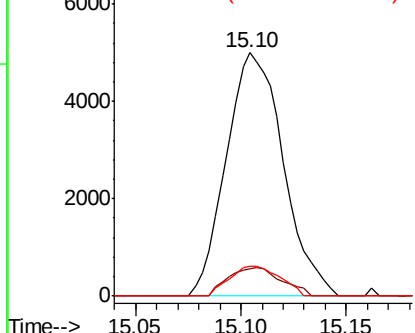


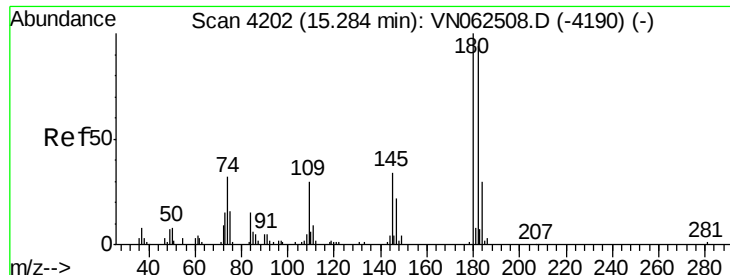
#91
Naphthalene
Concen: 1.671 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. 0.00 min
Lab File: VN062558.D
Acq: 20 Jul 2020 13:41

Tgt Ion:128 Resp: 9394
Ion Ratio Lower Upper
128 100
127 10.9 10.0 15.0
129 10.8 8.8 13.2



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





#92
 1,2,3-Trichlorobenzene
 Concen: 1.090 ug/l
 RT: 15.28 min Scan# 4202
 Delta R.T. 0.00 min
 Lab File: VN062558.D
 Acq: 20 Jul 2020 13:41

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

Tot Ion:180 Resp: 2278
 Ion Ratio Lower Upper
 180 100
 182 97.9 0.0 187.2
 145 14.1 0.0 67.8

