

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090420\
 Data File : VX018259.D
 Acq On : 04 Sep 2020 14:51
 Operator : JC/SP
 Sample : L3883-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD-(SEP)

Quant Time: Sep 05 06:32:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 04 12:13:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	78960	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.83	114	394731	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	377078	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	191381	30.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.40%
60) 4-Bromofluorobenzene	11.12	95	175612	26.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.57%
63) Toluene-d8	8.70	98	486802	29.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.63%

Target Compounds

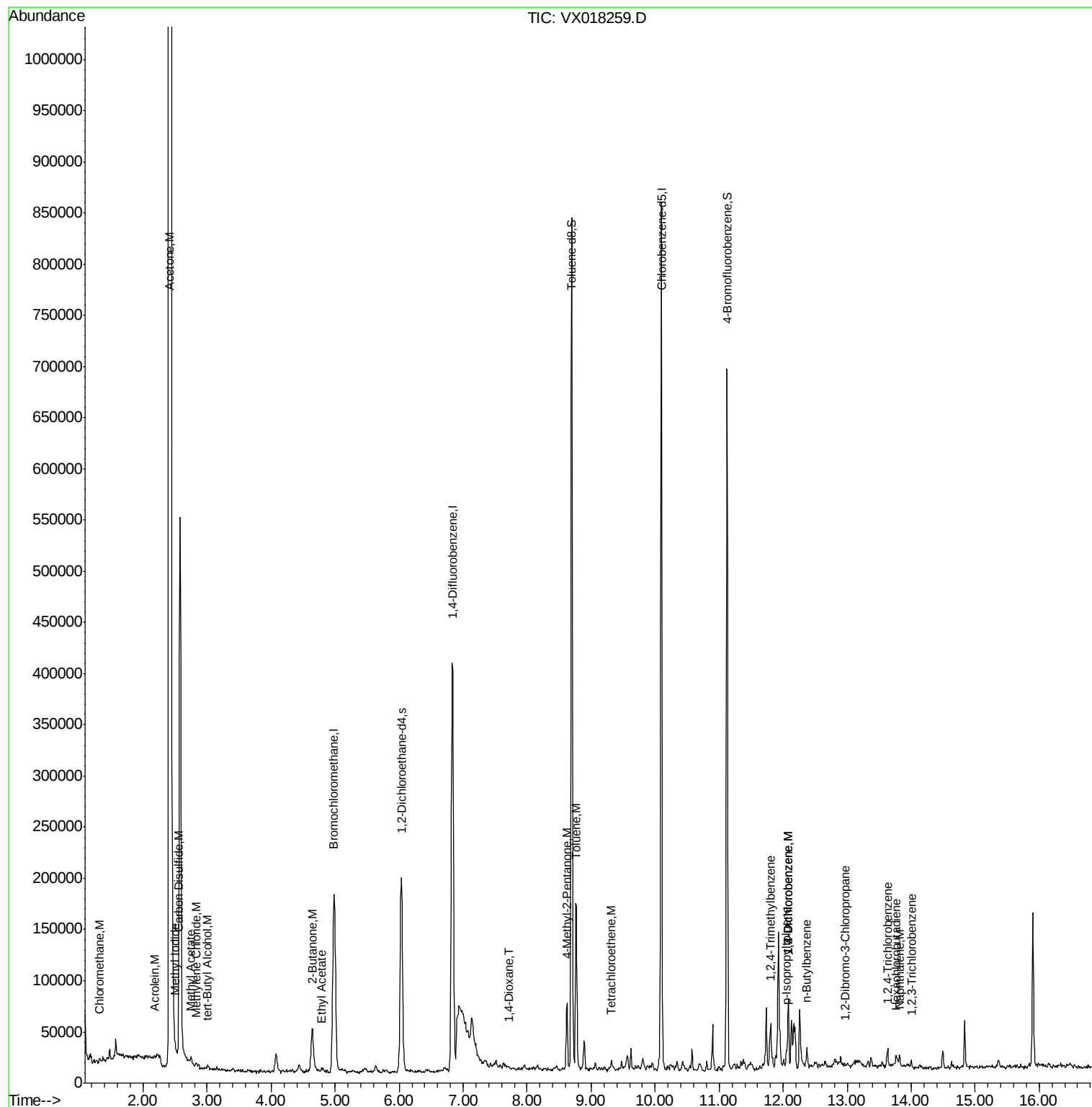
					Ovalue
3) Chloromethane	1.31	50	1510	0.340	ug/l 98
11) Methyl Iodide	2.50	142	580	7.652	ug/l # 83
12) Methyl Acetate	2.75	43	6650	1.272	ug/l 99
13) Acrolein	2.18	56	341	0.808	ug/l 93
15) Acetone	2.42	58	2719299	4221.608	ug/l 93
16) Carbon Disulfide	2.55	76	12860	1.112	ug/l 99
18) Methylene Chloride	2.83	84	1858	0.399	ug/l # 90
23) tert-Butyl Alcohol	3.01	59	3616	3.522	ug/l # 90
30) 2-Butanone	4.64	43	65269	19.783	ug/l # 59
43) Ethyl Acetate	4.79	43	2928	0.446	ug/l # 74
45) 1,4-Dioxane	7.71	88	26	0.294	ug/l # 1
58) 4-Methyl-2-Pentanone	8.62	43	37836	5.834	ug/l 95
61) Tetrachloroethene	9.32	164	1409	0.300	ug/l # 73
62) Toluene	8.77	91	102097	5.380	ug/l 99
80) 1,2,4-Trimethylbenzene	11.79	105	7764	0.428	ug/l 57
82) p-Isopropyltoluene	12.05	119	4207	0.218	ug/l 87
84) 1,4-Dichlorobenzene	12.09	146	2215	0.215	ug/l 86
85) n-Butylbenzene	12.37	91	3783	0.223	ug/l 94
87) 1,2-Dichlorobenzene	12.09	146	2215	0.229	ug/l 91
88) 1,2-Dibromo-3-Chloropropan	12.98	75	383	0.217	ug/l # 23
89) 1,2,4-Trichlorobenzene	13.63	180	2067	0.316	ug/l # 91
90) Hexachlorobutadiene	13.77	225	807	0.292	ug/l 62
91) Naphthalene	13.82	128	7173	0.351	ug/l # 97
92) 1,2,3-Trichlorobenzene	14.01	180	1551	0.240	ug/l 89

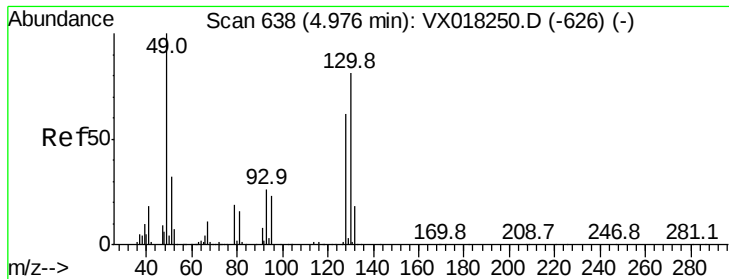
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 05 06:32:47 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 04 12:13:41 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.99 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD-(SEP)

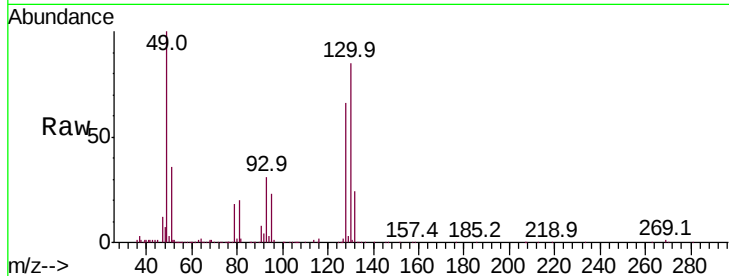
Tot Ion:128 Resp: 78960

Ion Ratio Lower Upper

128 100

49 155.3 0.0 392.0

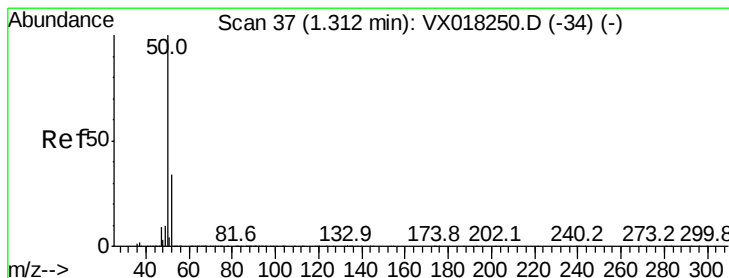
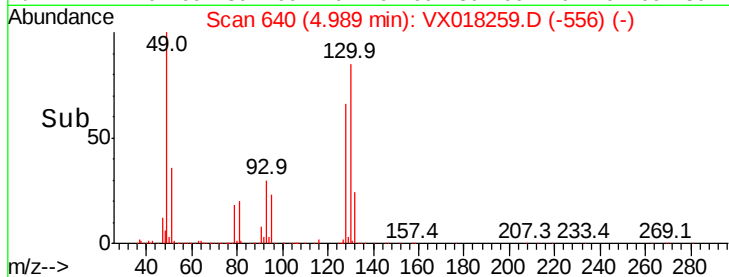
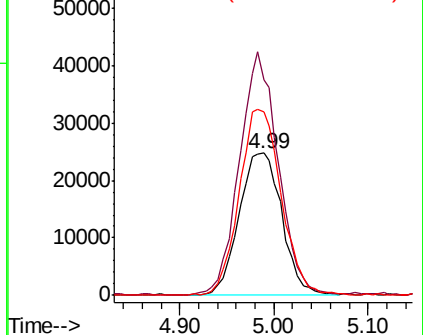
130 128.5 0.0 320.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.340 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018259.D

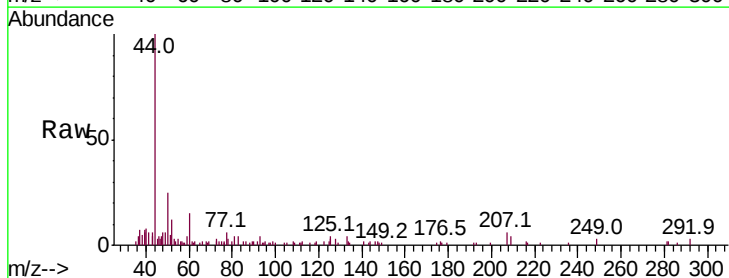
Acq: 04 Sep 2020 14:51

Tgt Ion: 50 Resp: 1510

Ion Ratio Lower Upper

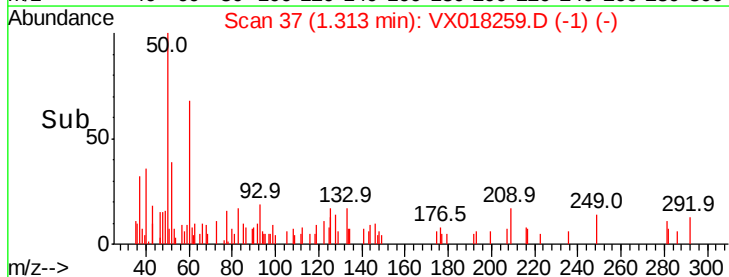
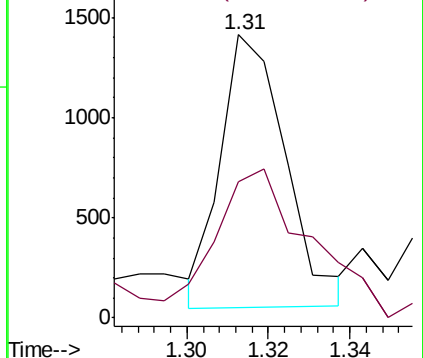
50 100

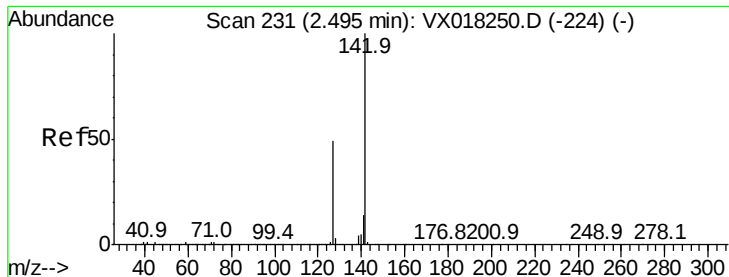
52 33.0 27.1 40.7



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

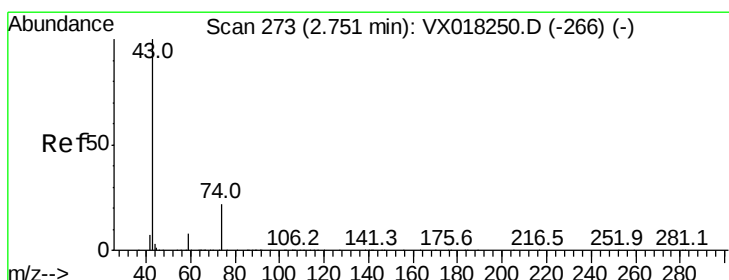
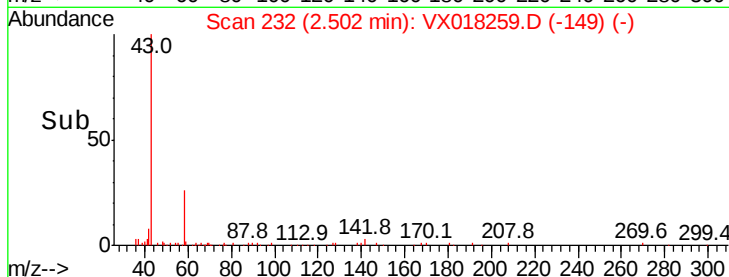
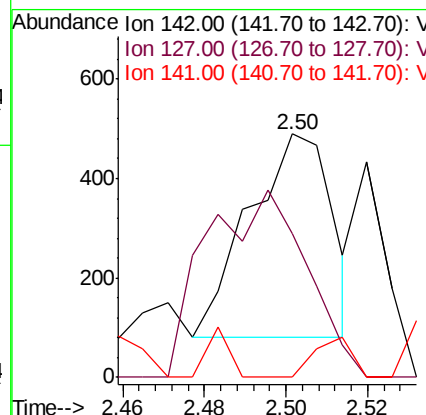
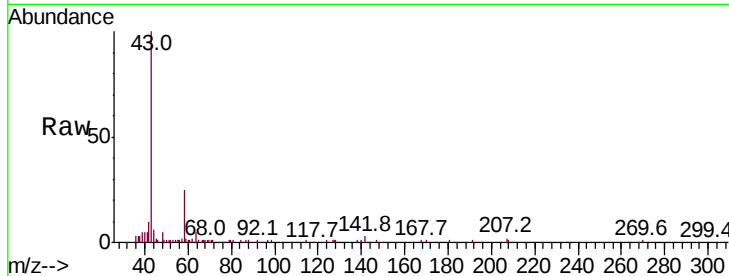




#11
Methyl Iodide
Concen: 7.652 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX018259.D
Acq: 04 Sep 2020 14:51

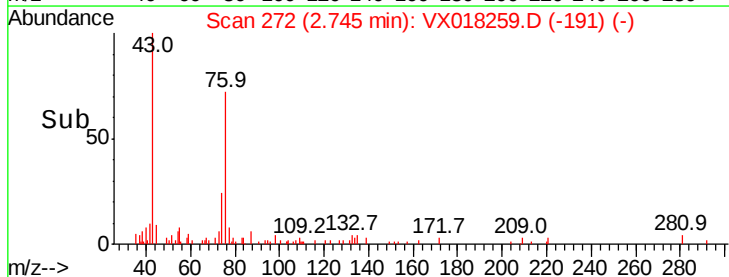
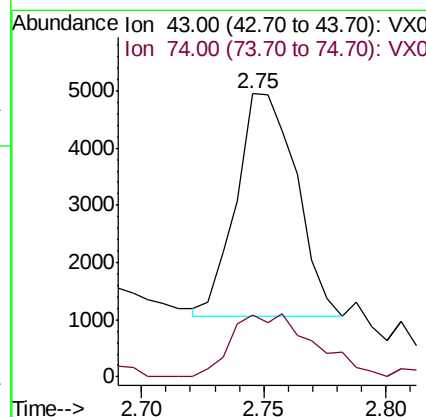
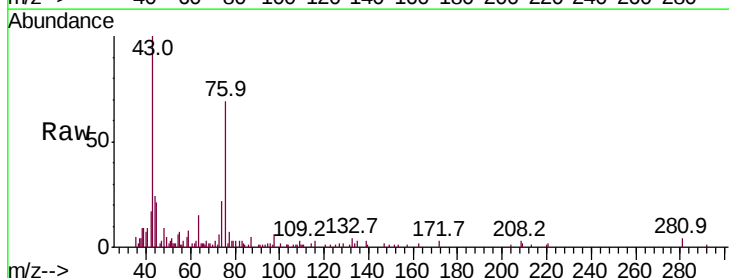
Instrument :
MSVOA_X
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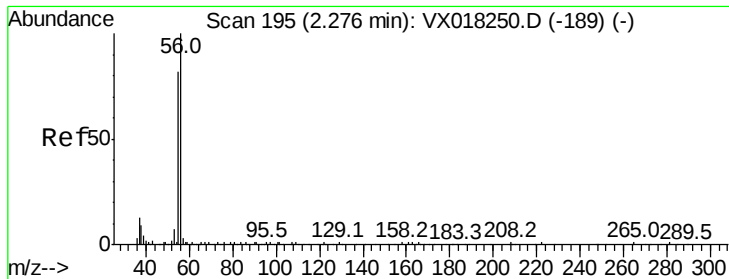
Tot Ion:142 Resp: 580
Ion Ratio Lower Upper
142 100
127 40.7 24.6 74.0
141 0.0 7.0 21.0#



#12
Methyl Acetate
Concen: 1.272 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX018259.D
Acq: 04 Sep 2020 14:51

Tgt Ion: 43 Resp: 6650
Ion Ratio Lower Upper
43 100
74 22.8 18.0 27.0

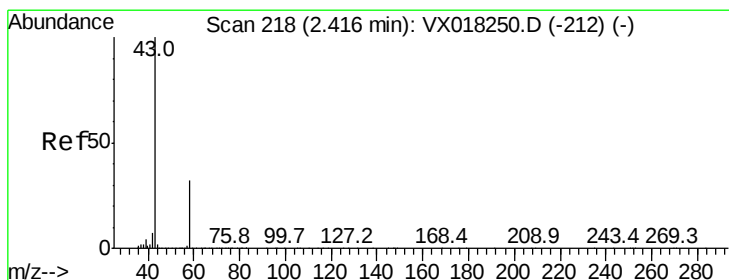
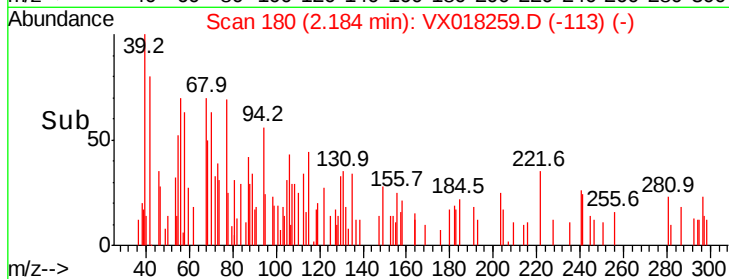
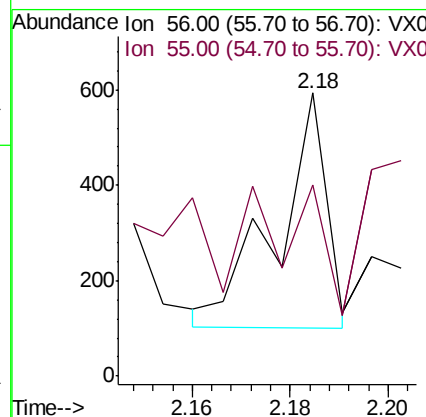
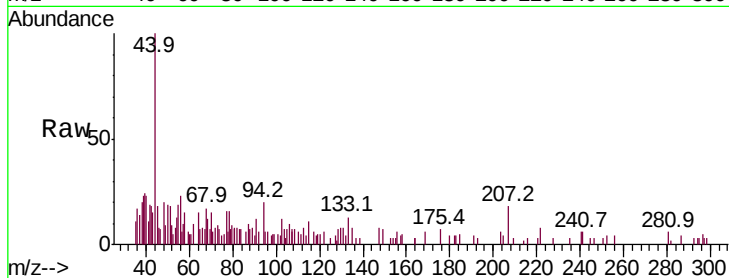




#13
Acrolein
Concen: 0.808 ug/l
RT: 2.18 min Scan# 180
Delta R.T. -0.09 min
Lab File: VX018259.D
Acq: 04 Sep 2020 14:51

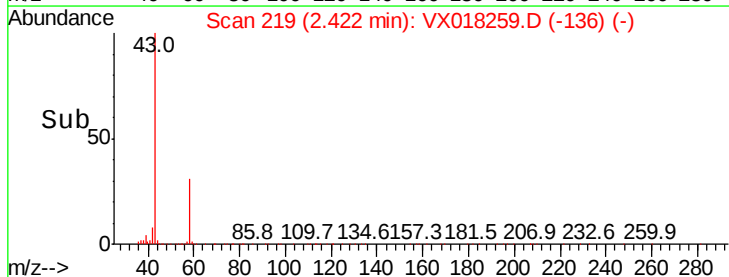
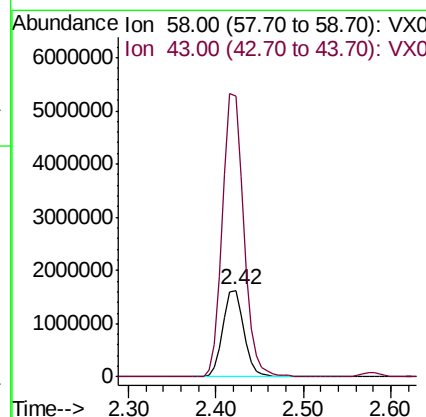
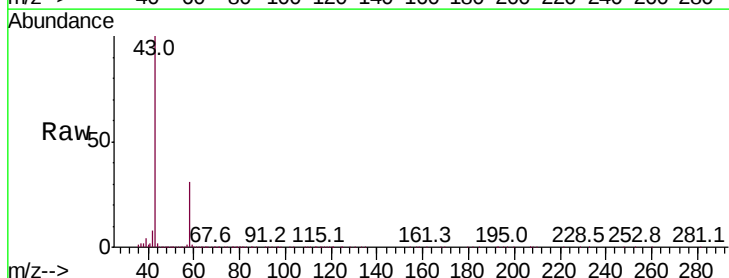
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(SEP)

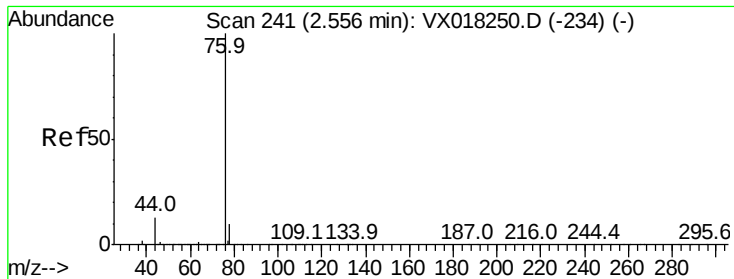
Tot Ion: 56 Resp: 341
Ion Ratio Lower Upper
56 100
55 68.6 59.7 89.5



#15
Acetone
Concen: 4221.608 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.01 min
Lab File: VX018259.D
Acq: 04 Sep 2020 14:51

Tgt Ion: 58 Resp: 2719299
Ion Ratio Lower Upper
58 100
43 324.7 248.2 372.2





#16

Carbon Disulfide

Concen: 1.112 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.01 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

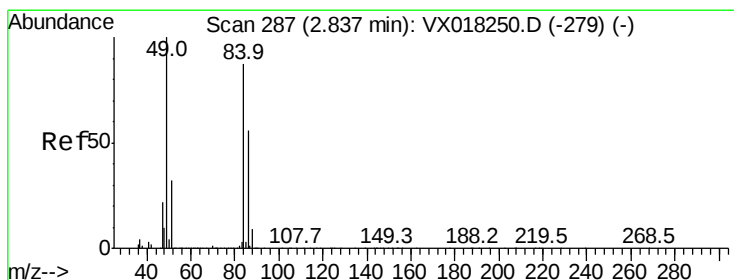
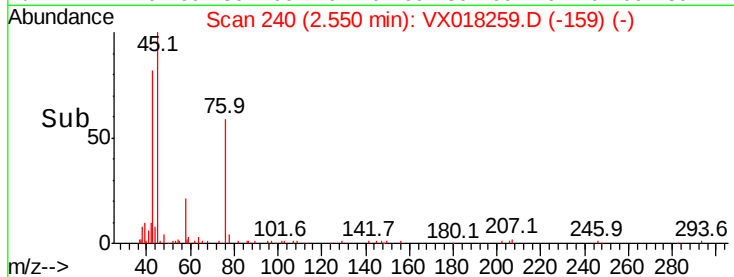
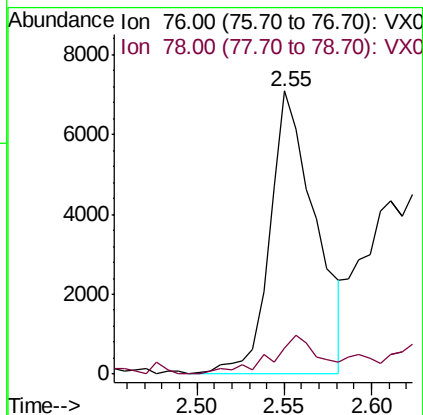
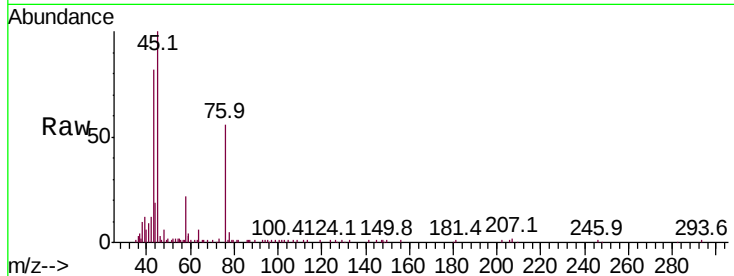
001-WILLETS-PT-BLVD-(SEP)

Tot Ion: 76 Resp: 12860

Ion Ratio Lower Upper

76 100

78 9.2 7.8 11.6



#18

Methylene Chloride

Concen: 0.399 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Tgt Ion: 84 Resp: 1858

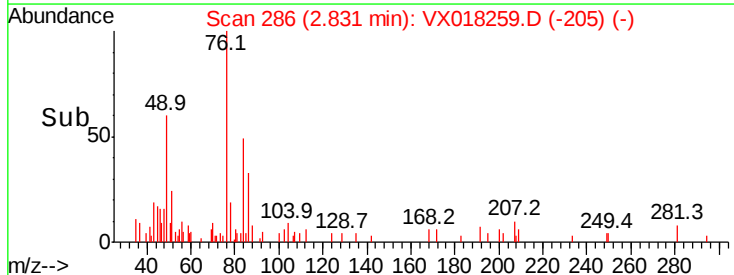
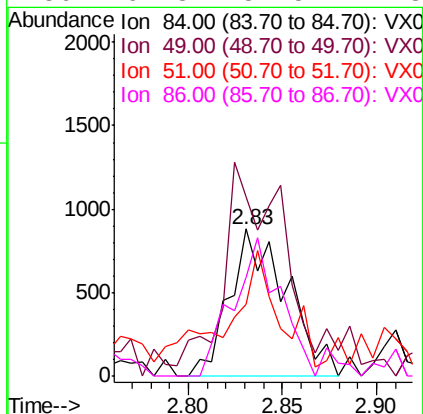
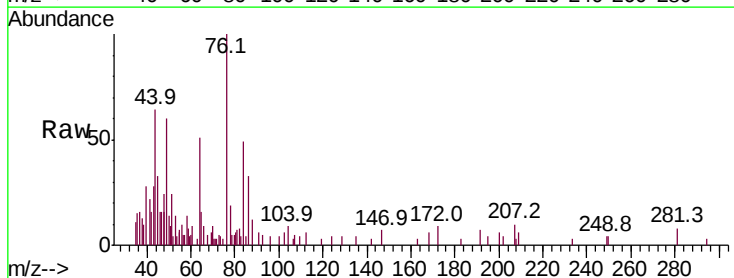
Ion Ratio Lower Upper

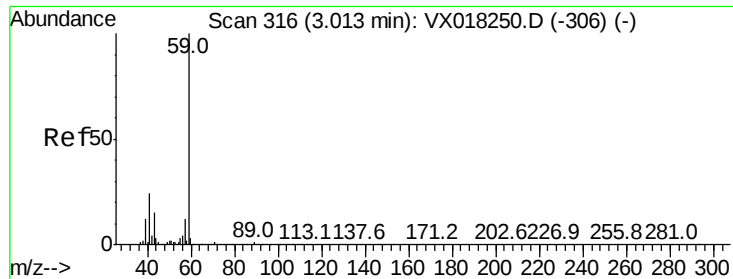
84 100

49 105.3 91.6 137.4

51 22.5 29.4 44.0#

86 67.3 51.5 77.3



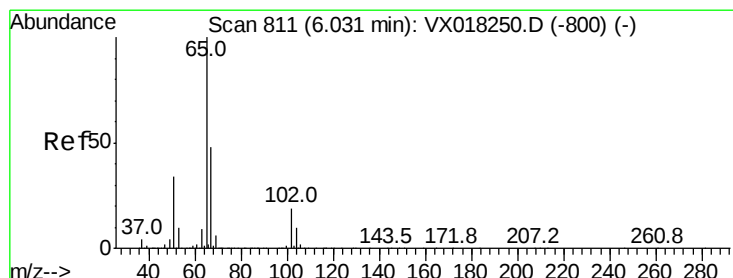
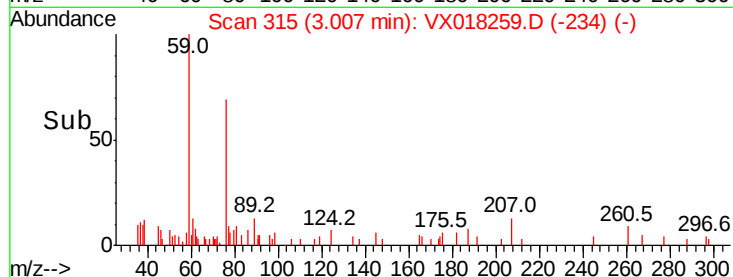
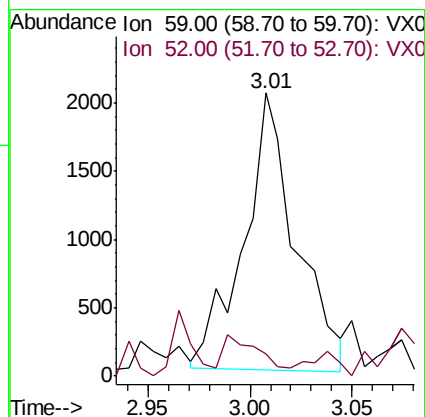
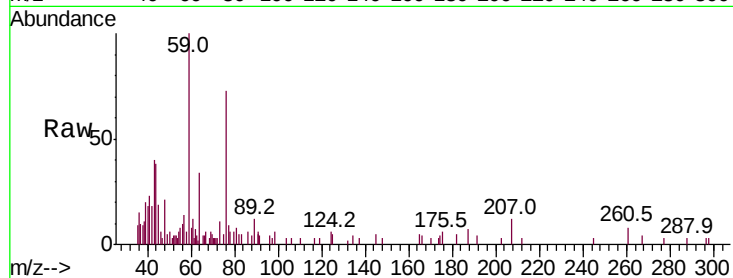


#23

tert-Butyl Alcohol
Concen: 3.522 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX018259.D
Acq: 04 Sep 2020 14:51

Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(SEP)

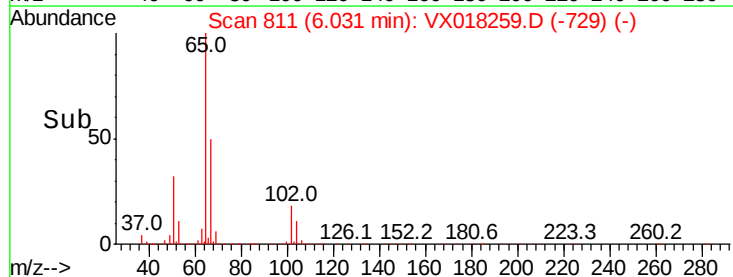
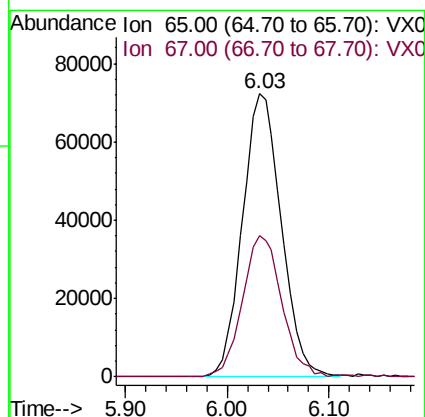
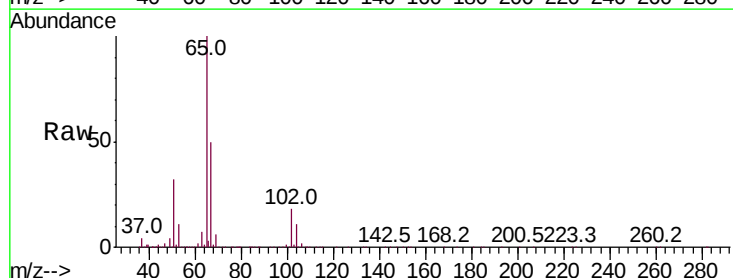
Tot Ion: 59 Resp: 3616
Ion Ratio Lower Upper
59 100
52 7.2 0.4 0.6#

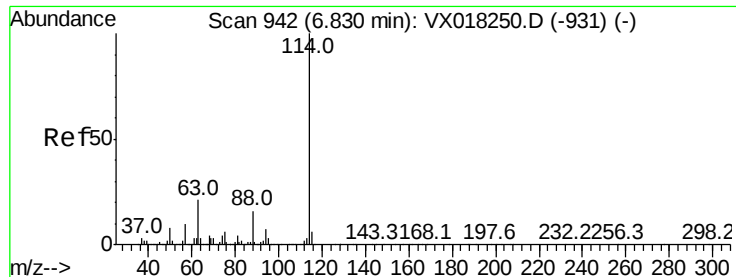


#27

1,2-Dichloroethane-d4
Concen: 30.722 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX018259.D
Acq: 04 Sep 2020 14:51

Tgt Ion: 65 Resp: 191381
Ion Ratio Lower Upper
65 100
67 50.3 39.9 59.9

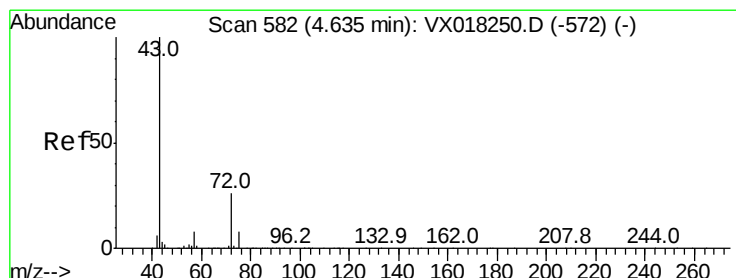
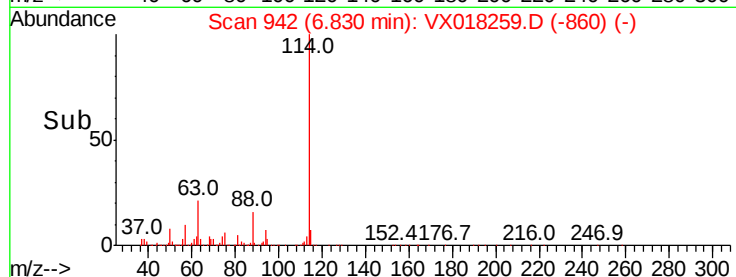
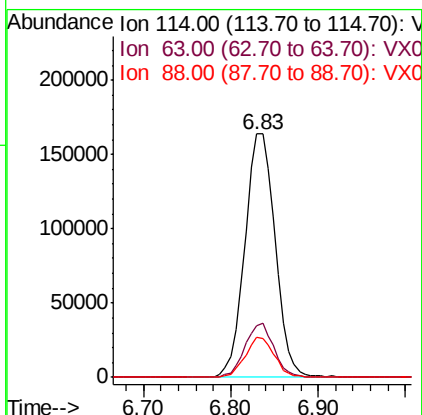
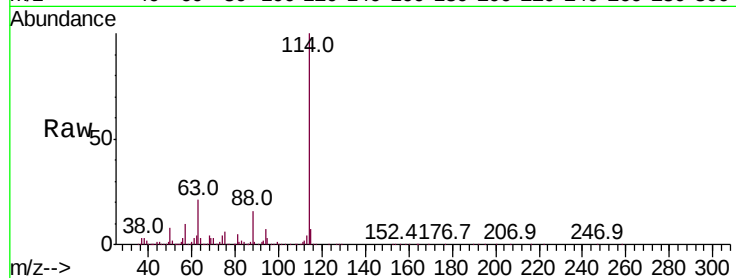




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX018259.D
 Acq: 04 Sep 2020 14:51

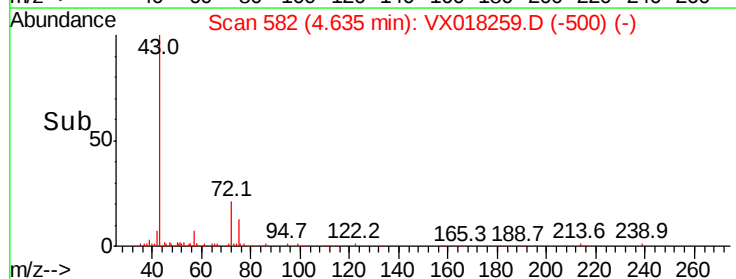
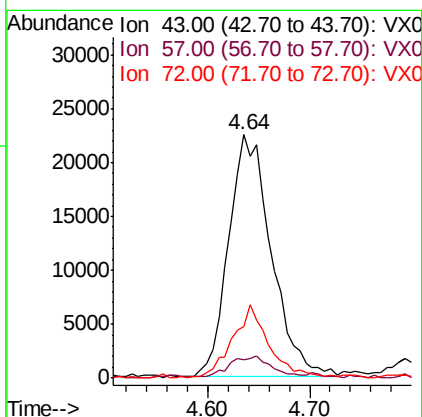
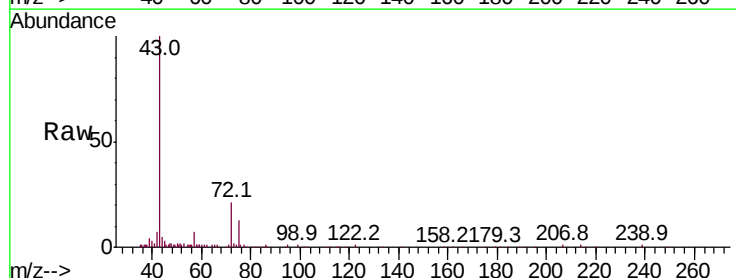
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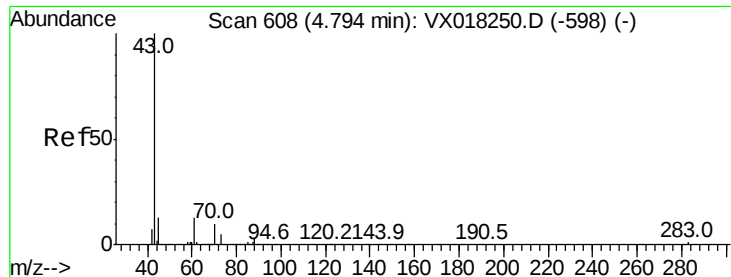
Tot Ion:114 Resp: 394731
 Ion Ratio Lower Upper
 114 100
 63 21.0 16.7 25.1
 88 15.8 12.6 18.8



#30
 2-Butanone
 Concen: 19.783 ug/l
 RT: 4.64 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VX018259.D
 Acq: 04 Sep 2020 14:51

Tgt Ion: 43 Resp: 65269
 Ion Ratio Lower Upper
 43 100
 57 3.5 6.7 10.1#
 72 0.0 20.0 30.0#





#43

Ethyl Acetate

Concen: 0.446 ug/l

RT: 4.79 min Scan# 608

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

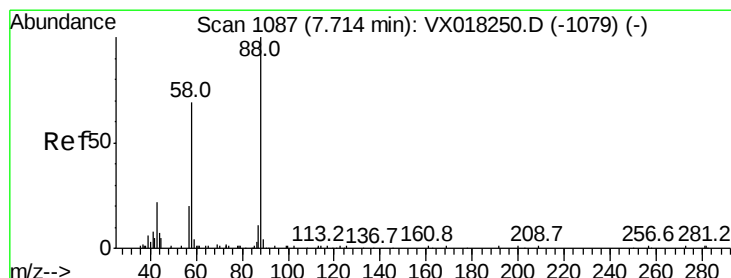
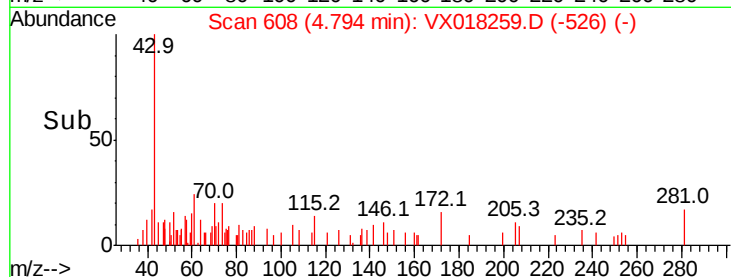
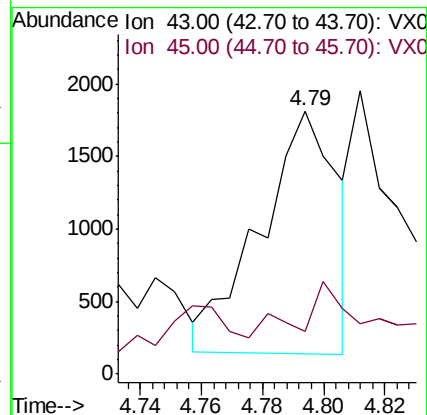
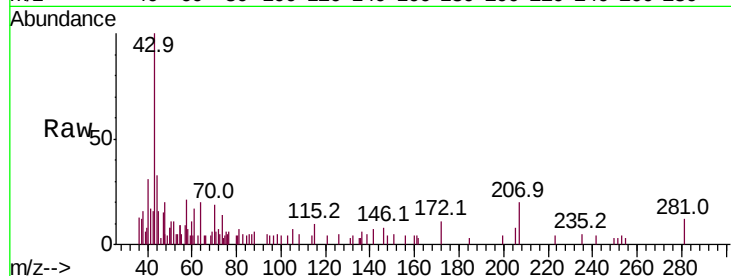
001-WILLETS-PT-BLVD-(SEP)

Tot Ion: 43 Resp: 2928

Ion Ratio Lower Upper

43 100

45 24.4 11.2 16.8#



#45

1,4-Dioxane

Concen: 0.294 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

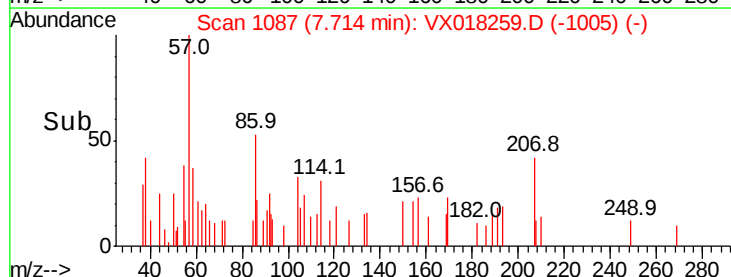
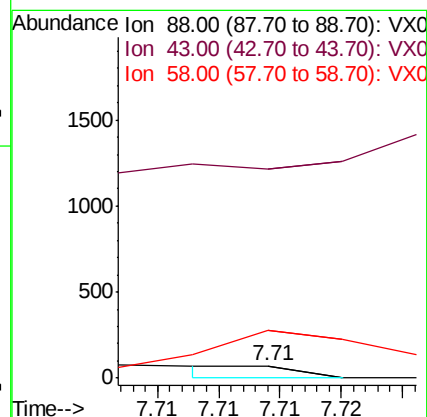
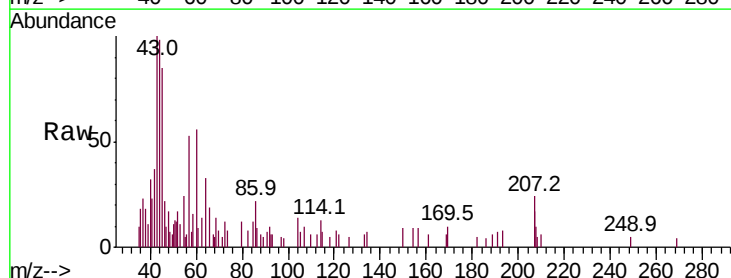
Tgt Ion: 88 Resp: 26

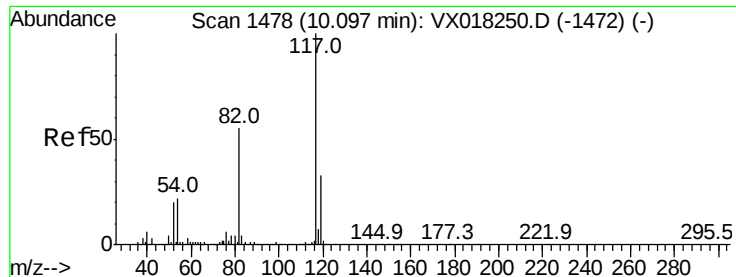
Ion Ratio Lower Upper

88 100

43 2684.6 13.6 20.4#

58 1450.0 58.2 87.4#

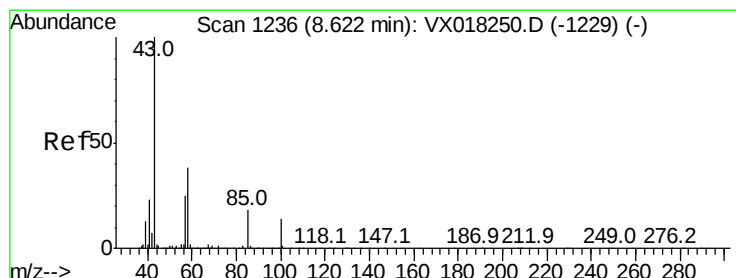
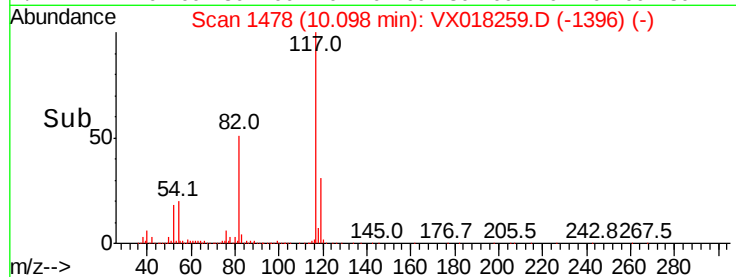
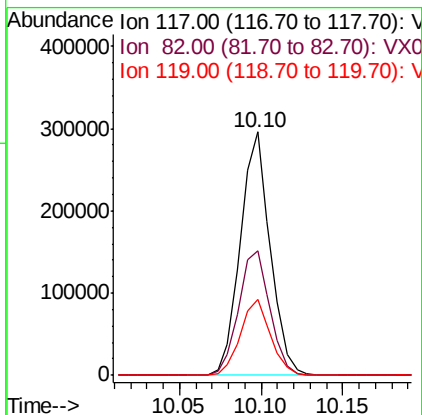
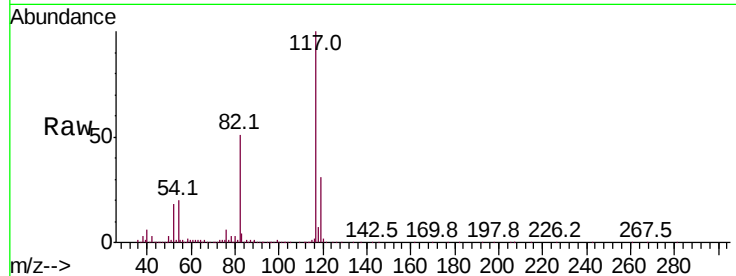




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018259.D
Acq: 04 Sep 2020 14:51

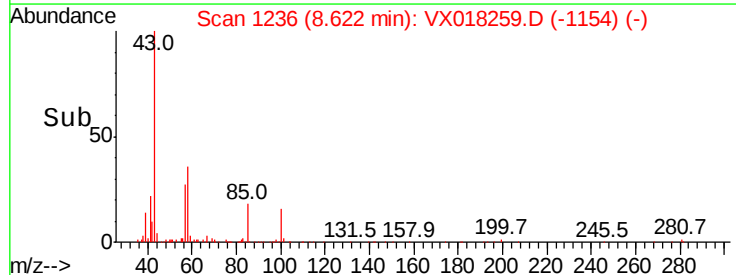
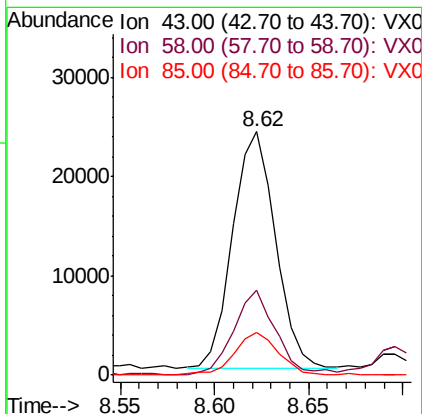
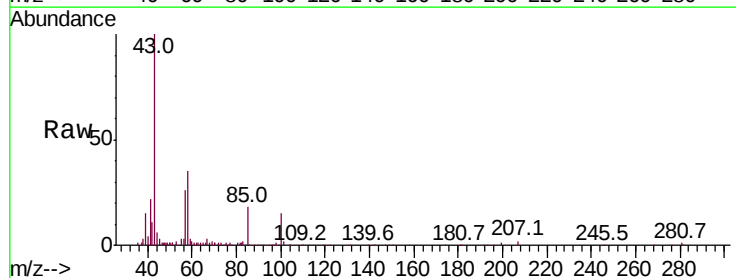
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD-(SEP)

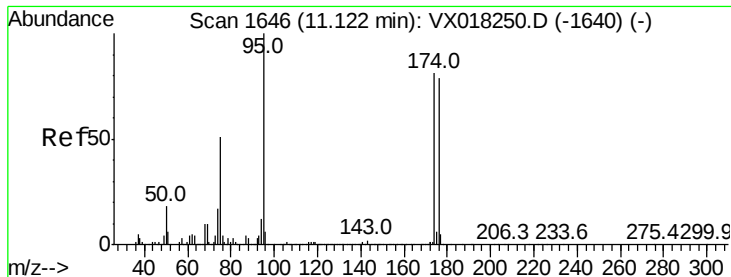
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.1	44.2	66.4
119	31.4	26.1	39.1



#58
4-Methyl-2-Pentanone
Concen: 5.834 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VX018259.D
Acq: 04 Sep 2020 14:51

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.9	30.0	45.0
85	18.6	14.2	21.4





#60

4-Bromofluorobenzene

Concen: 26.870 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD-(SEP)

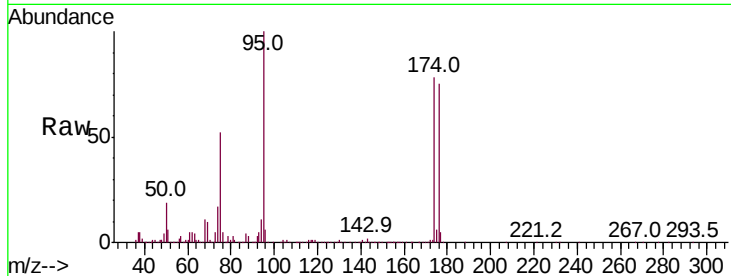
Tot Ion: 95 Resp: 175612

Ion Ratio Lower Upper

95 100

174 80.3 64.2 96.4

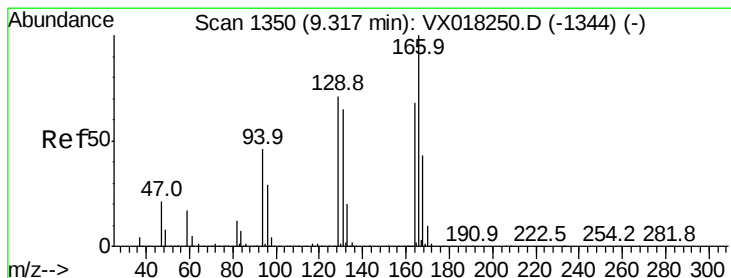
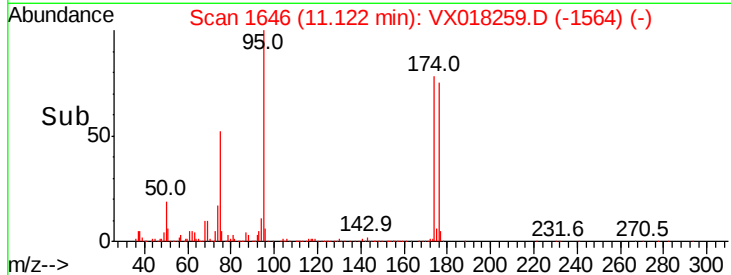
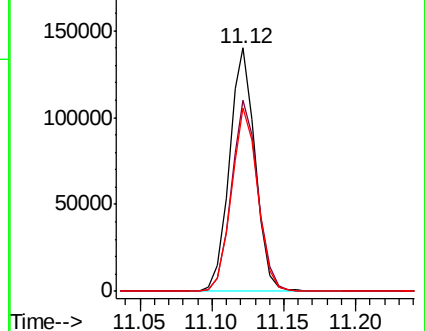
176 76.9 62.2 93.4



Abundance Ion 95.00 (94.70 to 95.70): VX018259.D (-1640) (-)

Ion 174.00 (173.70 to 174.70): VX018259.D (-1640) (-)

Ion 176.00 (175.70 to 176.70): VX018259.D (-1640) (-)



#61

Tetrachloroethene

Concen: 0.300 ug/l

RT: 9.32 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Tgt Ion: 164 Resp: 1409

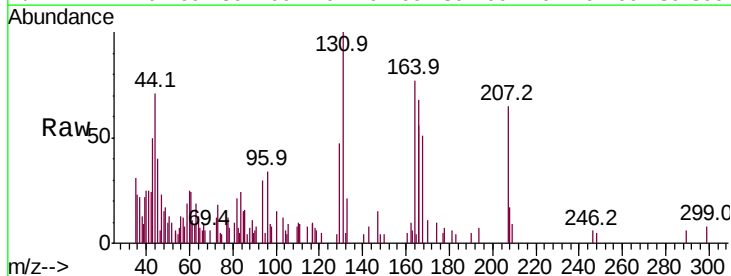
Ion Ratio Lower Upper

164 100

166 161.9 117.4 176.0

129 61.2 82.7 124.1#

131 130.4 76.7 115.1#

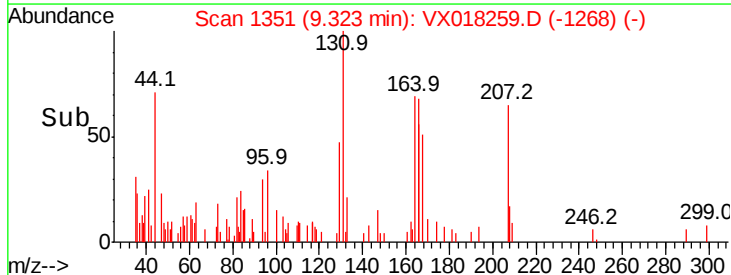
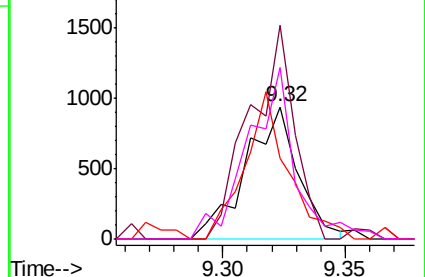


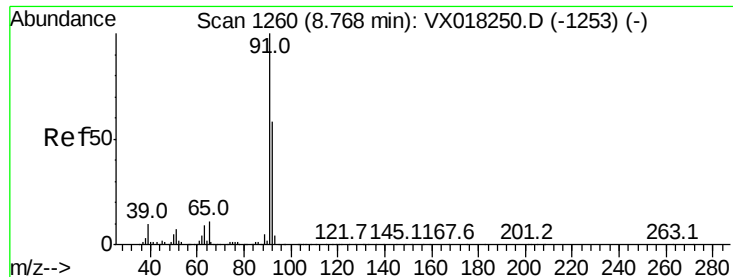
Abundance Ion 163.85 (163.55 to 164.55): VX018259.D (-1268) (-)

Ion 165.80 (165.50 to 166.50): VX018259.D (-1268) (-)

Ion 128.90 (128.60 to 129.60): VX018259.D (-1268) (-)

Ion 130.90 (130.60 to 131.60): VX018259.D (-1268) (-)





#62

Toluene

Concen: 5.380 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

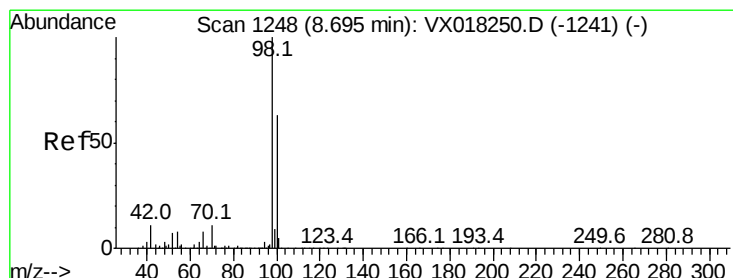
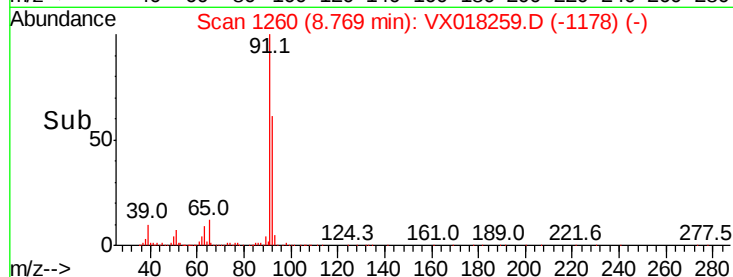
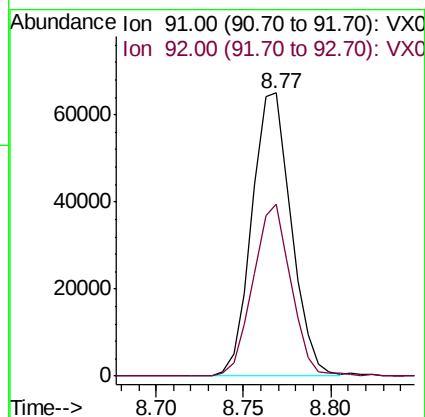
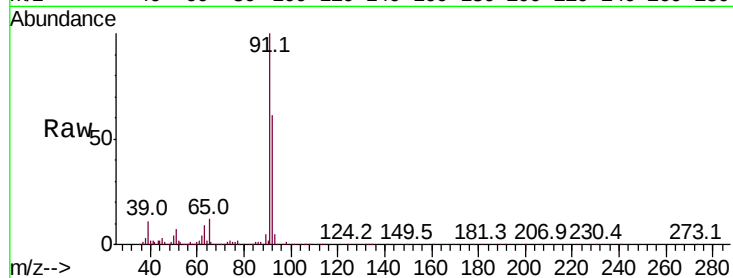
001-WILLETS-PT-BLVD-(SEP)

Tot Ion: 91 Resp: 102097

Ion Ratio Lower Upper

91 100

92 58.0 46.9 70.3



#63

Toluene-d8

Concen: 29.290 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018259.D

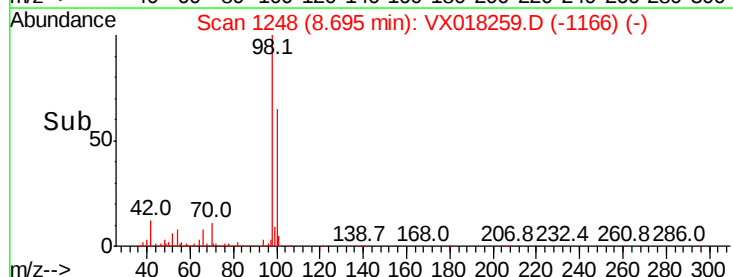
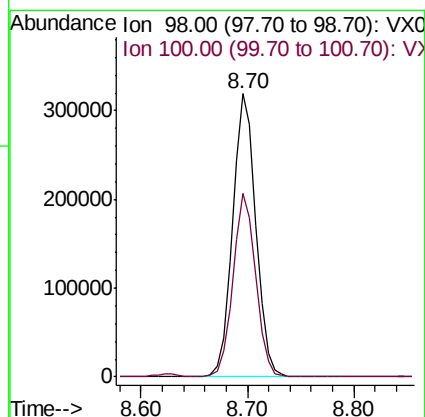
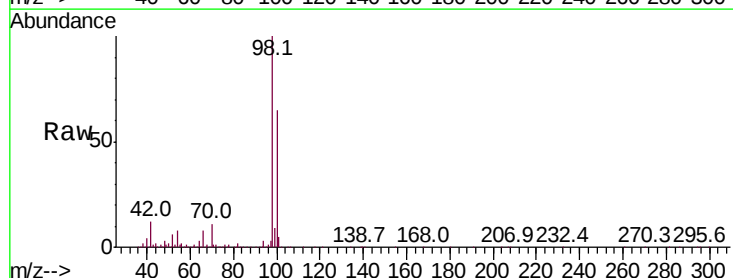
Acq: 04 Sep 2020 14:51

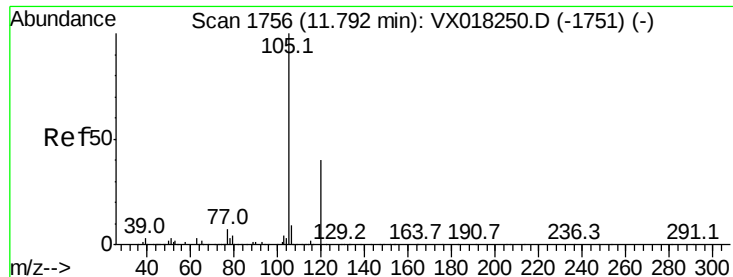
Tgt Ion: 98 Resp: 486802

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.0





#80

1,2,4-Trimethylbenzene

Concen: 0.428 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

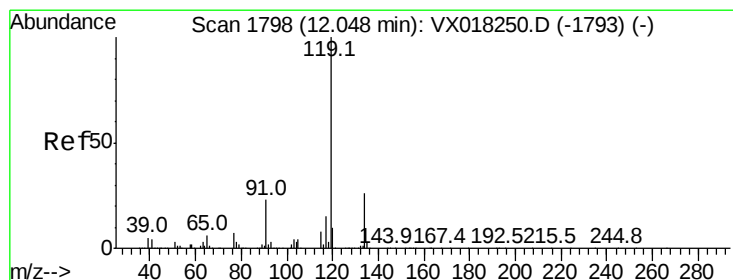
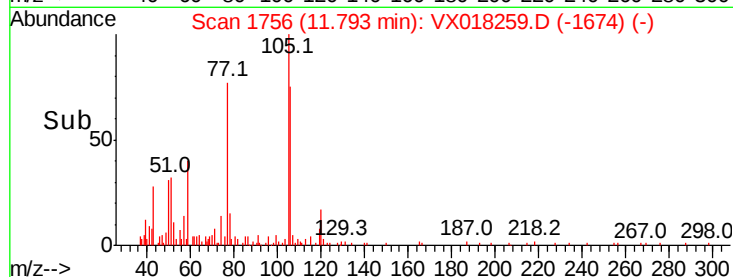
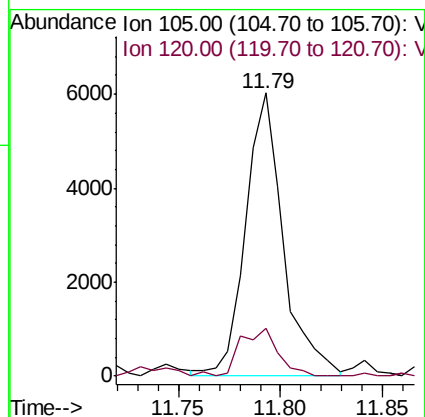
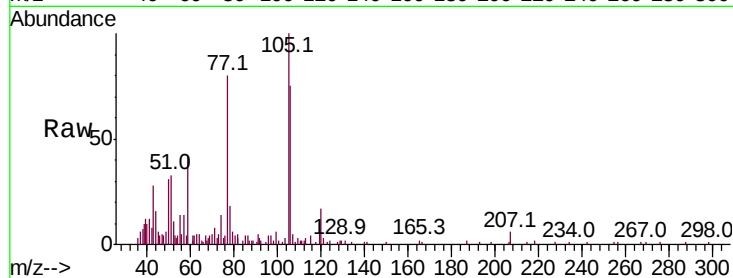
001-WILLETS-PT-BLVD-(SEP)

Tot Ion:105 Resp: 7764

Ion Ratio Lower Upper

105 100

120 16.5 0.0 89.2



#82

p-Isopropyltoluene

Concen: 0.218 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

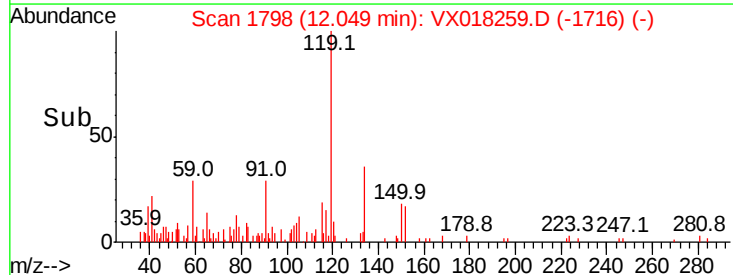
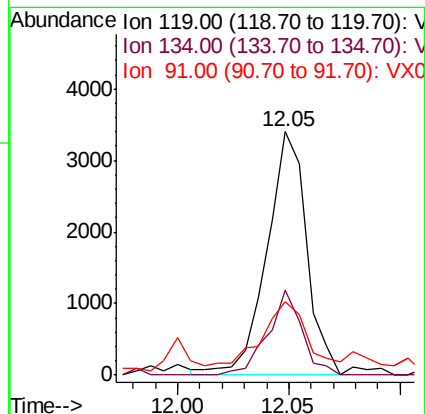
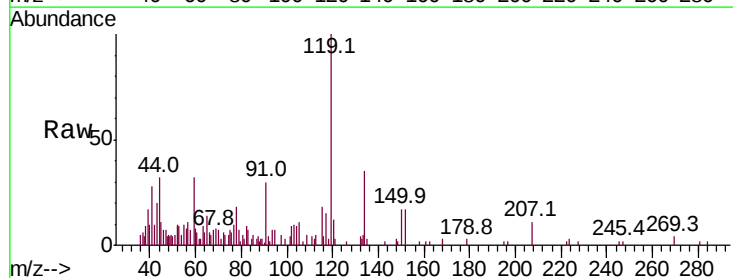
Tgt Ion:119 Resp: 4207

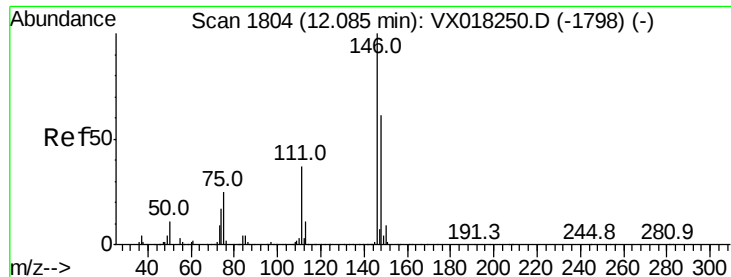
Ion Ratio Lower Upper

119 100

134 29.8 0.0 53.0

91 35.2 0.0 49.8





#84

1,4-Dichlorobenzene

Concen: 0.215 ug/l

RT: 12.09 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD-(SEP)

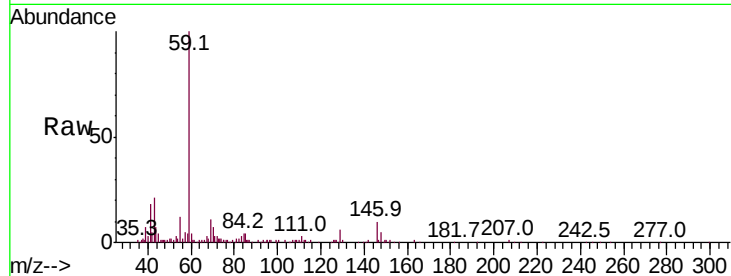
Tot Ion:146 Resp: 2215

Ion Ratio Lower Upper

146 100

111 57.5 19.3 57.8

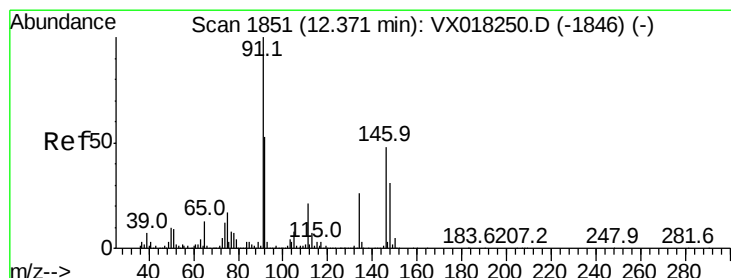
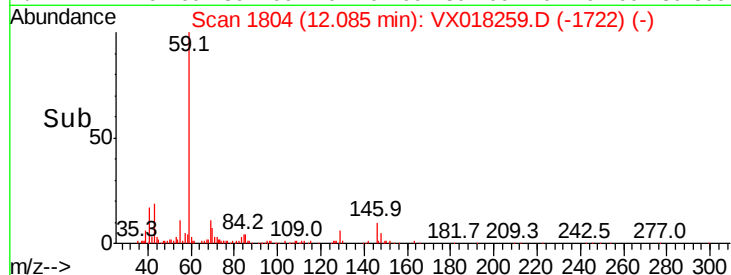
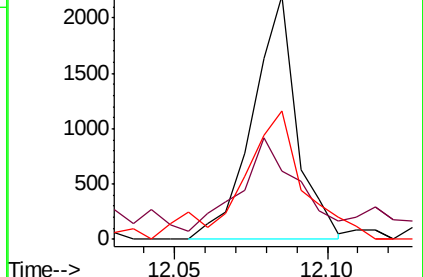
148 66.1 31.7 95.1



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: 0.223 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

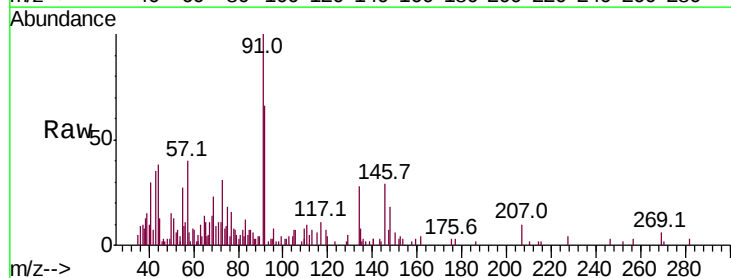
Tgt Ion: 91 Resp: 3783

Ion Ratio Lower Upper

91 100

92 55.3 0.0 105.0

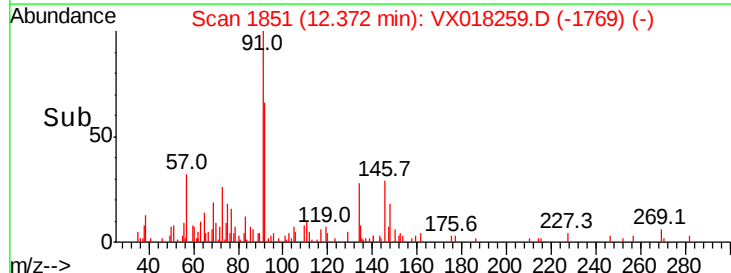
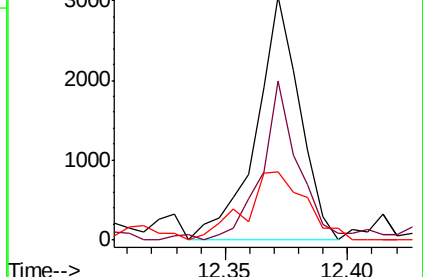
134 30.3 0.0 51.0

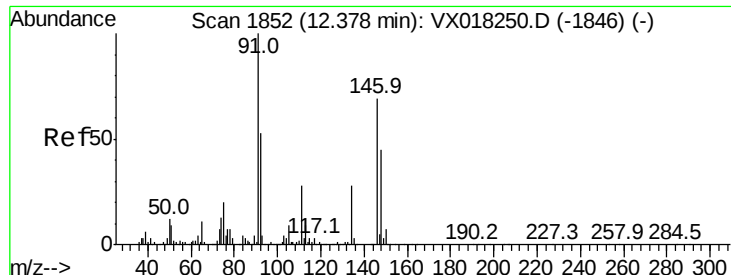


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V





#87

1,2-Dichlorobenzene

Concen: 0.229 ug/l

RT: 12.09 min Scan# 1804

Delta R.T. -0.29 min

Lab File: VX018259.D

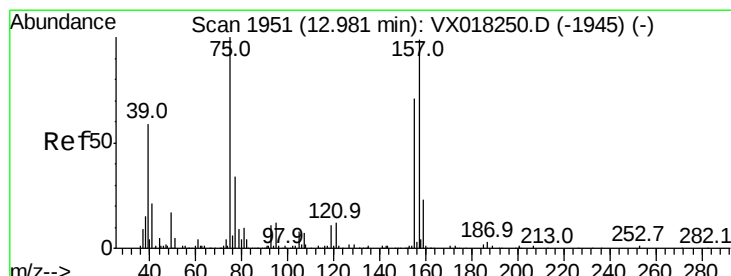
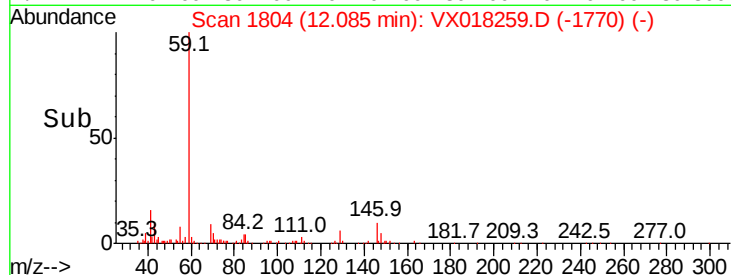
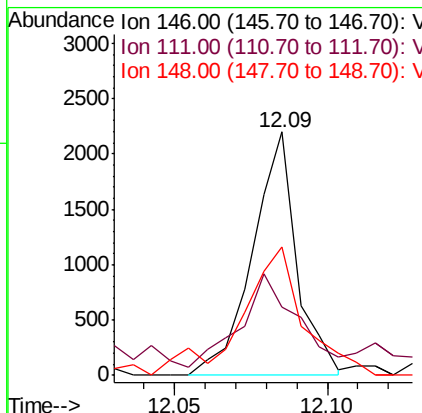
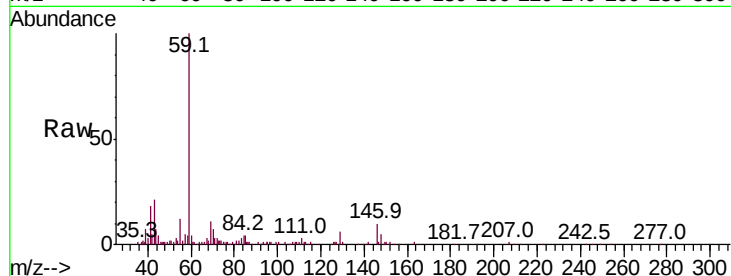
Acq: 04 Sep 2020 14:51

Instrument :
MSVOA_X

ClientSampleId :
001-WILLETS-PT-BLVD-(SEP)

Tot Ion:146 Resp: 2215

Ion	Ratio	Lower	Upper
146	100		
111	54.0	21.4	64.3
148	66.1	32.0	96.2



#88

1,2-Dibromo-3-Chloropropane

Concen: 0.217 ug/l

RT: 12.98 min Scan# 1951

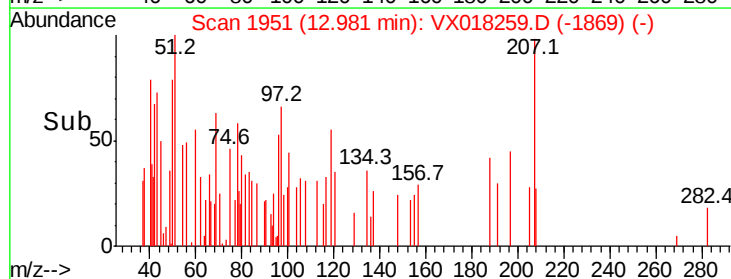
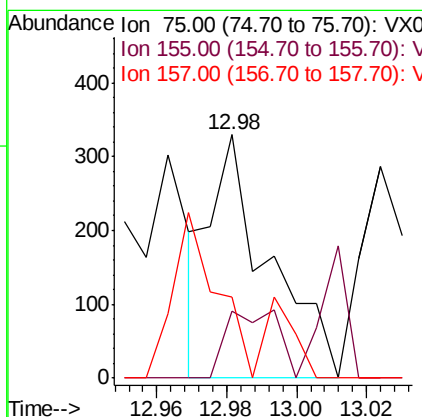
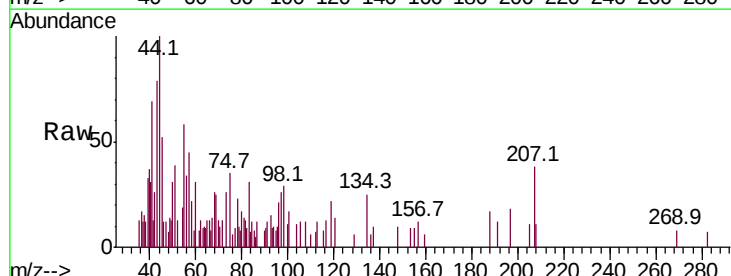
Delta R.T. 0.00 min

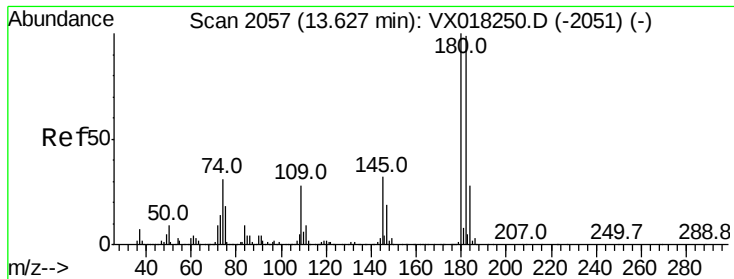
Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Tgt Ion: 75 Resp: 383

Ion	Ratio	Lower	Upper
75	100		
155	24.5	63.4	95.2#
157	16.2	87.0	130.6#





#89

1,2,4-Trichlorobenzene

Concen: 0.316 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD-(SEP)

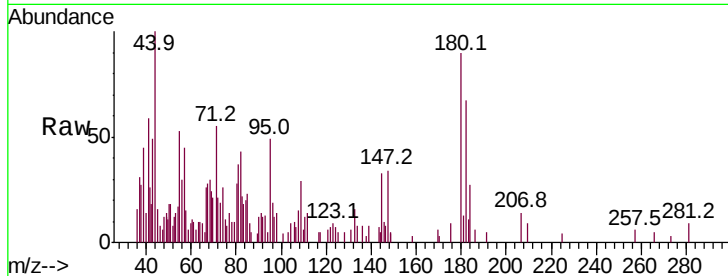
Tot Ion:180 Resp: 2067

Ion Ratio Lower Upper

180 100

182 89.5 77.1 115.7

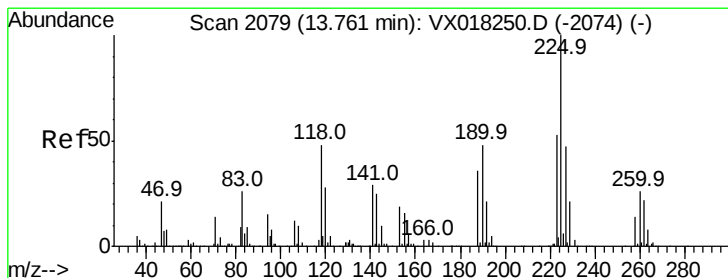
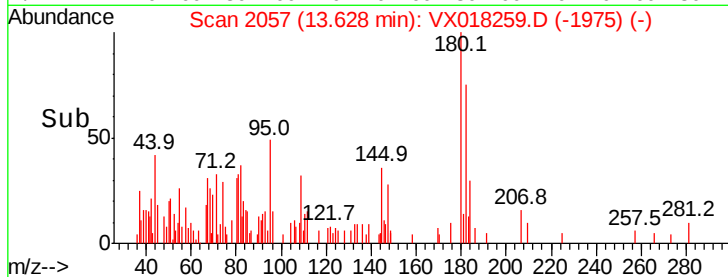
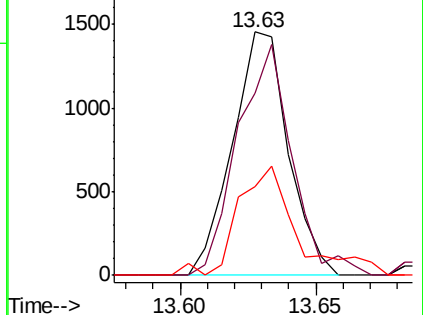
145 38.7 25.0 37.6#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90

Hexachlorobutadiene

Concen: 0.292 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

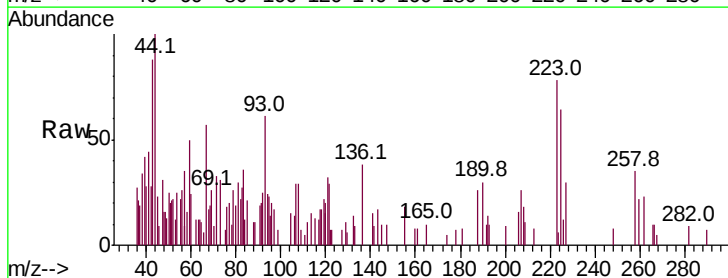
Tgt Ion:225 Resp: 807

Ion Ratio Lower Upper

225 100

223 101.6 0.0 115.8

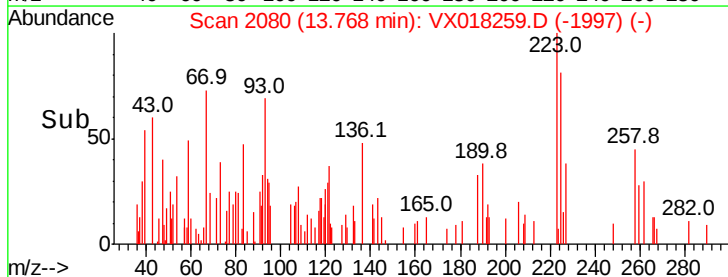
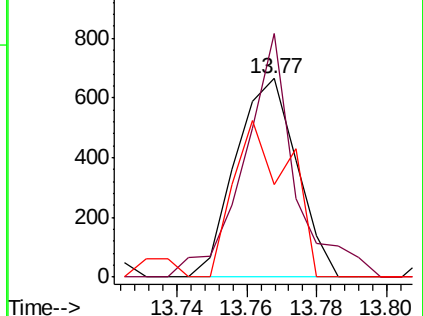
227 71.5 0.0 117.0

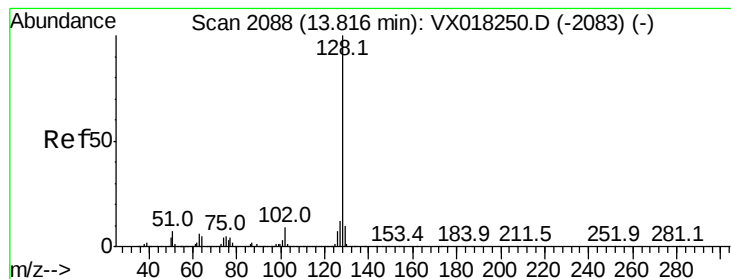


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 0.351 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD-(SEP)

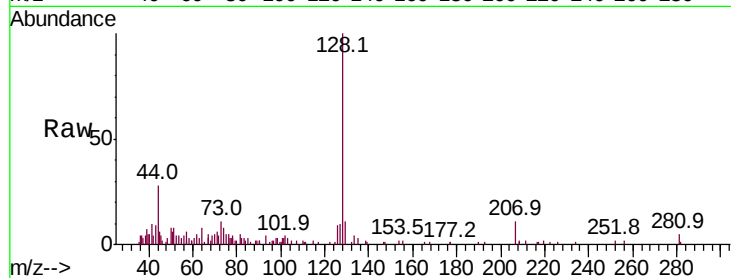
Tot Ion:128 Resp: 7173

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

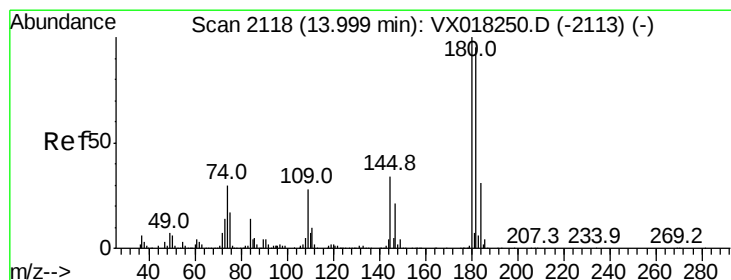
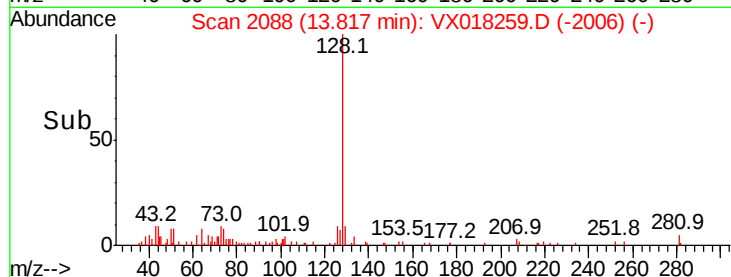
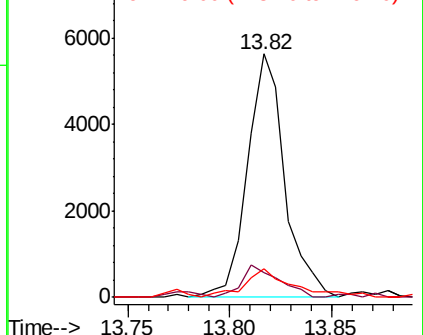
129 8.6 8.7 13.1#



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



#92

1,2,3-Trichlorobenzene

Concen: 0.240 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX018259.D

Acq: 04 Sep 2020 14:51

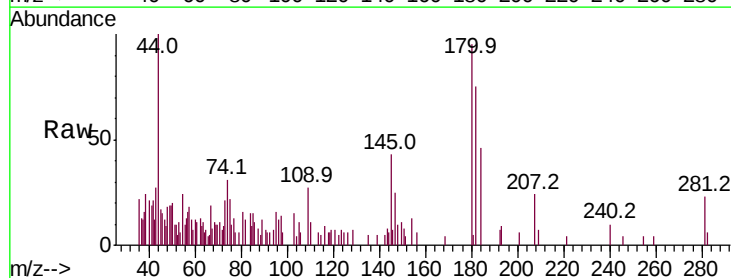
Tgt Ion:180 Resp: 1551

Ion Ratio Lower Upper

180 100

182 90.6 0.0 191.6

145 48.5 0.0 67.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

