

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040119\
 Data File : VN054883.D
 Acq On : 1 Apr 2019 19:01
 Operator : JC/SP
 Sample : K2186-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BELT-PARKWAY-STAGING-YARD-1

Quant Time: Apr 02 04:24:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	532219	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	865272	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	738777	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	245460	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	344126	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
35) Dibromofluoromethane	7.59	113	272225	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	
50) Toluene-d8	10.09	98	1041636	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
62) 4-Bromofluorobenzene	12.40	95	312423	43.80	ug/l	0.00
Spiked Amount			Recovery	=	87.60%	

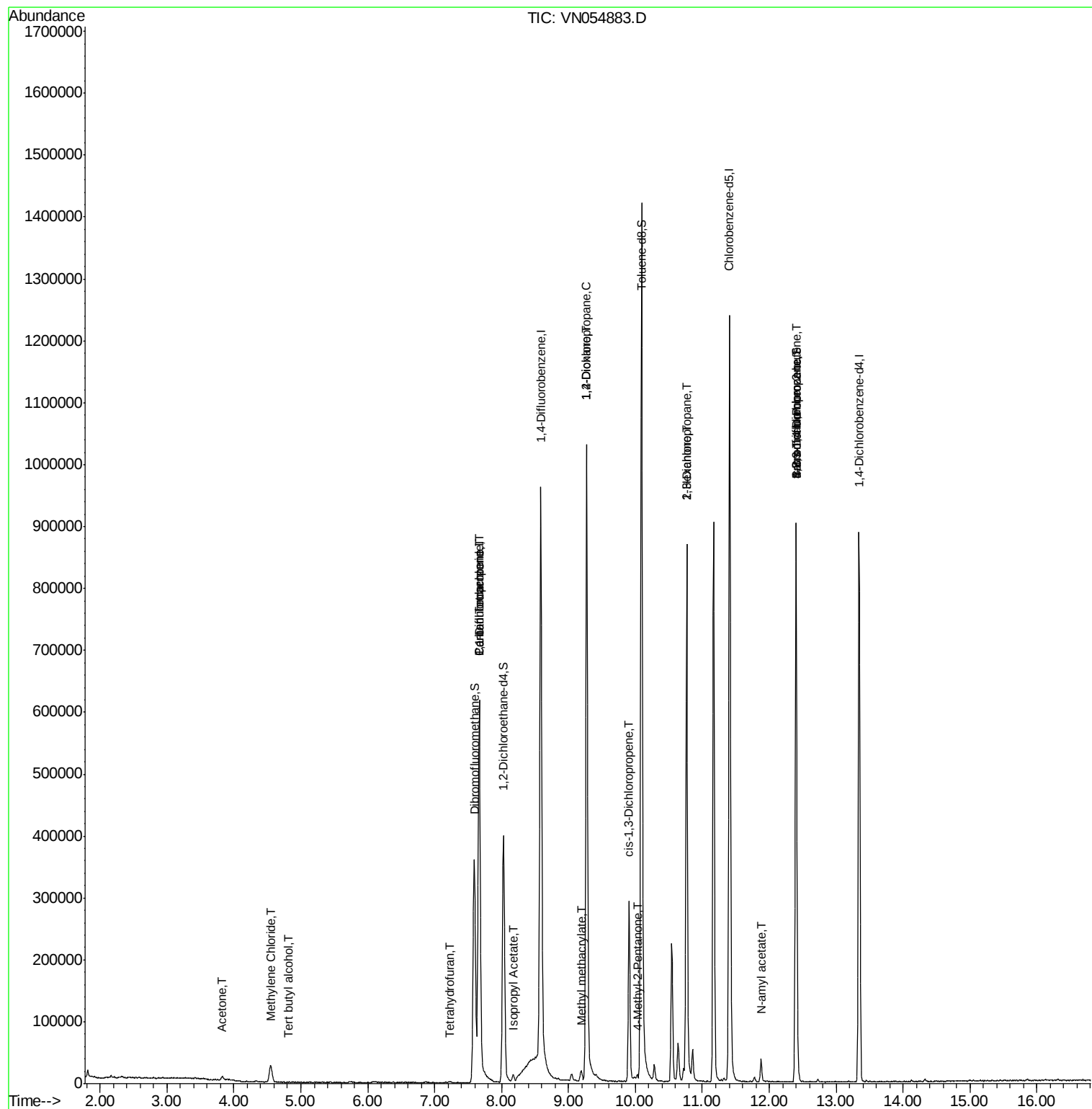
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	197	Below Cal	#	79
11) Tert butyl alcohol	4.82	59	116	0.310	ug/l #	70
16) Acetone	3.82	43	8154	4.766	ug/l #	75
18) Methyl Acetate	4.35	43	2492	Below Cal	#	75
20) Methylene Chloride	4.54	84	18449	3.057	ug/l	95
29) Tetrahydrofuran	7.21	42	452	0.257	ug/l #	53
31) Cyclohexane	7.67	56	11494	Below Cal	#	20
36) 1,1-Dichloropropene	7.66	75	40522	5.026	ug/l #	47
38) Carbon Tetrachloride	7.67	117	48484	6.191	ug/l #	17
43) Isopropyl Acetate	8.17	43	14279	1.486	ug/l #	89
45) 1,2-Dichloropropane	9.27	63	1354	0.206	ug/l #	43
48) Methyl methacrylate	9.19	41	6386	1.226	ug/l #	11
49) 1,4-Dioxane	9.27	88	30	0.581	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	7192	1.332	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	47488	5.495	ug/l #	74
57) 1,3-Dichloropropane	10.77	76	8372	0.954	ug/l #	43
59) 2-Hexanone	10.77	43	139018	40.205	ug/l #	48
71) Bromoform	12.40	173	2269	0.715	ug/l #	1
74) N-amyl acetate	11.88	43	12135	1.941	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.40	83	164	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	160867	37.725	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160867	146.740	ug/l #	11

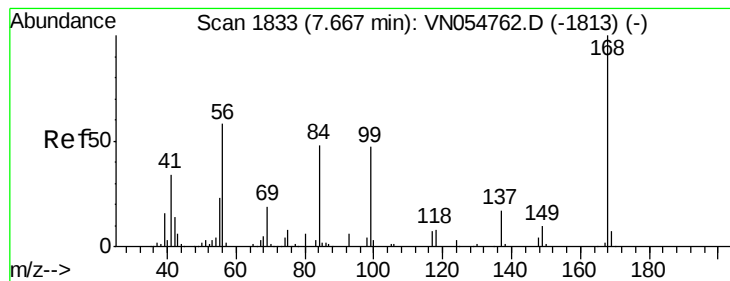
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BELT-PARKWAY-STAGING-YARD-1

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Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

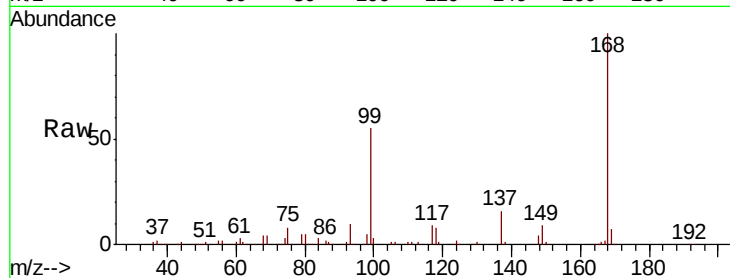
BELT-PARKWAY-STAGING-YARD-1

Tot Ion:168 Resp: 532219

Ion Ratio Lower Upper

168 100

99 54.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054883.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054883.D (-1740) (-)

7.67

250000

200000

150000

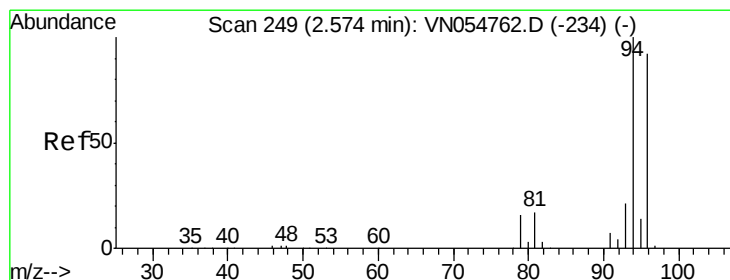
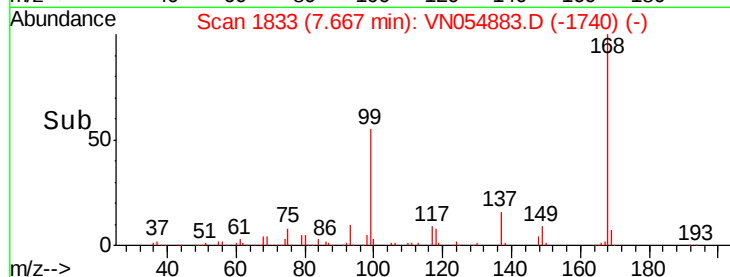
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN054883.D

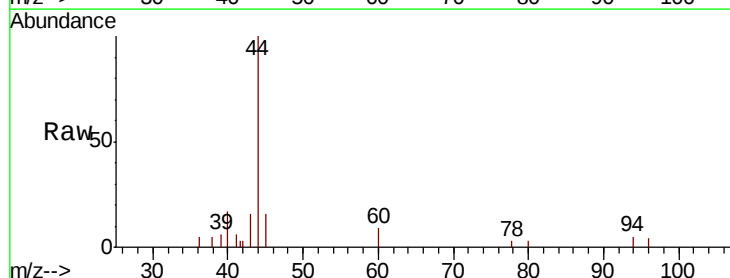
Acq: 1 Apr 2019 19:01

Tgt Ion: 94 Resp: 197

Ion Ratio Lower Upper

94 100

96 75.8 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054883.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054883.D (-156) (-)

2.58

300

250

200

150

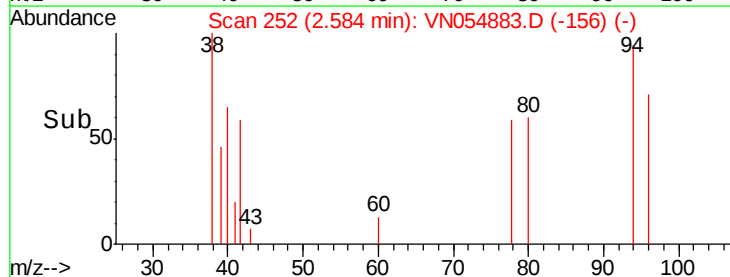
100

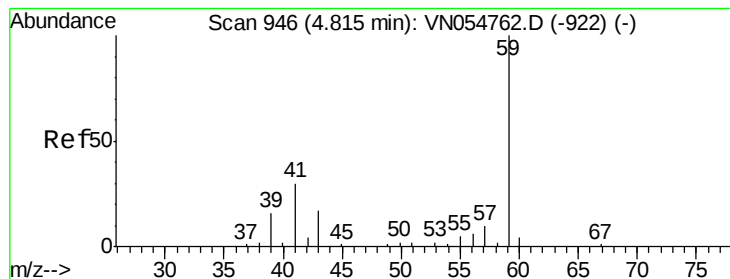
50

0

2.56 2.57 2.58 2.59 2.60

Time-->



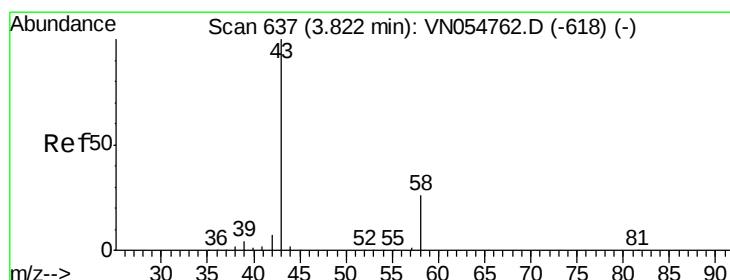
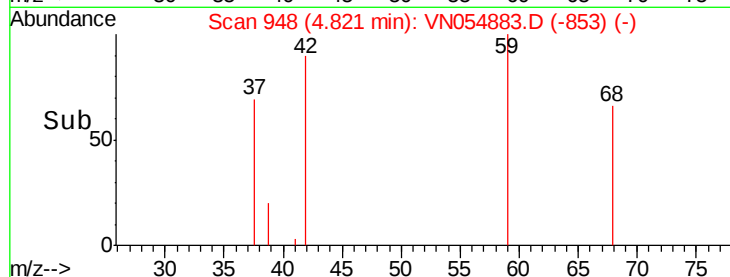
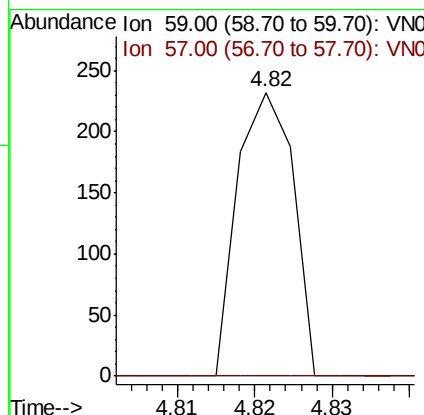
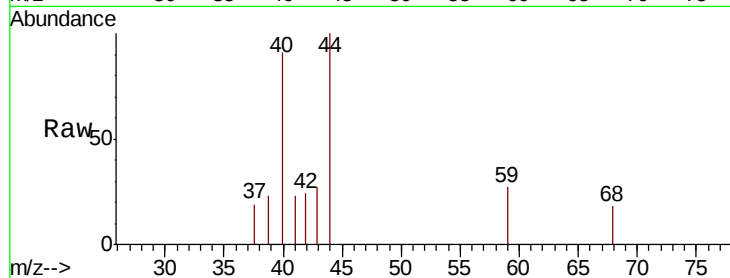


#11

Tert butyl alcohol
 Concen: 0.310 ug/l
 RT: 4.82 min Scan# 948
 Delta R.T. 0.01 min
 Lab File: VN054883.D
 Acq: 1 Apr 2019 19:01

Instrument :
 MSVOA_N
 ClientSampleId :
 BELT-PARKWAY-STAGING-YARD-1

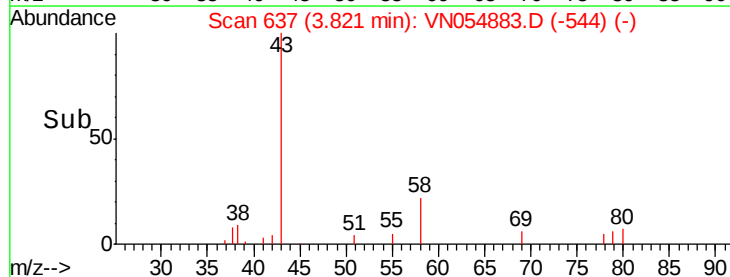
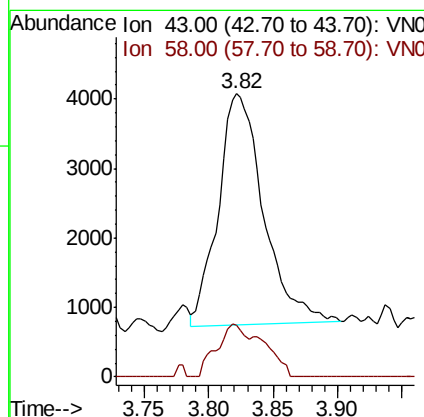
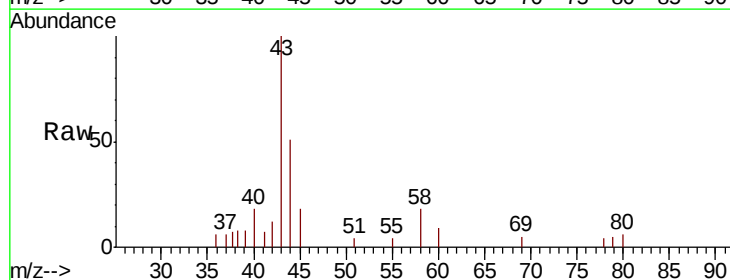
Tot Ion: 59 Resp: 116
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

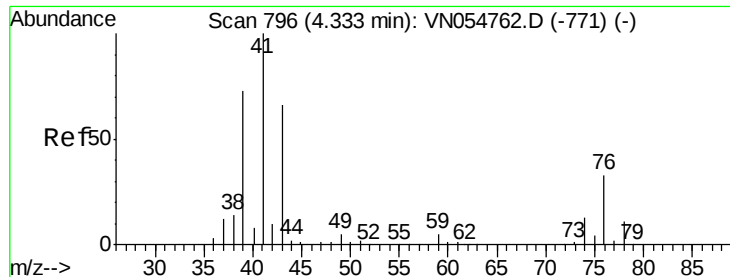


#16

Acetone
 Concen: 4.766 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: VN054883.D
 Acq: 1 Apr 2019 19:01

Tgt Ion: 43 Resp: 8154
 Ion Ratio Lower Upper
 43 100
 58 22.7 29.9 44.9#

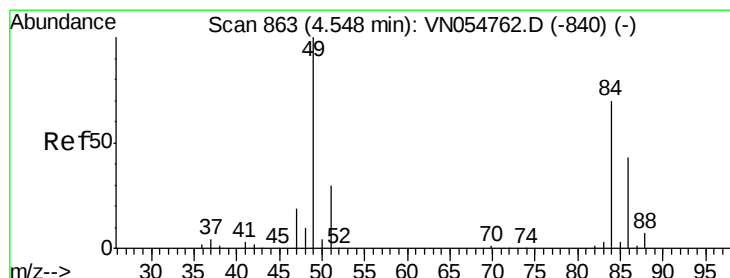
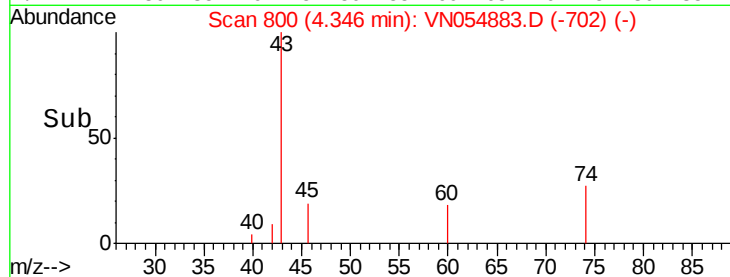
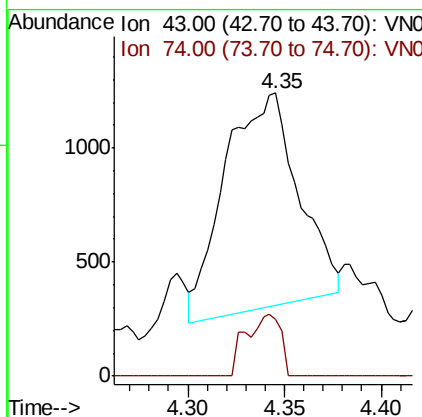
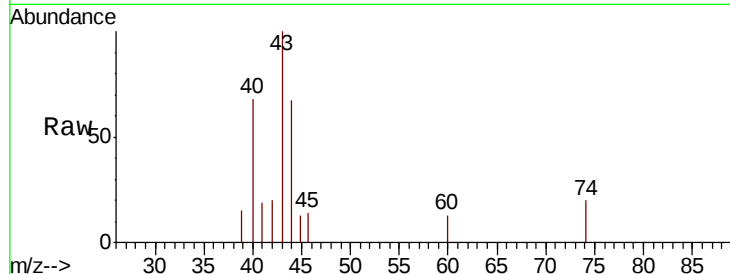




#18
Methyl Acetate
Concen: Below Cal
RT: 4.35 min Scan# 800
Delta R.T. 0.01 min
Lab File: VN054883.D
Acq: 1 Apr 2019 19:01

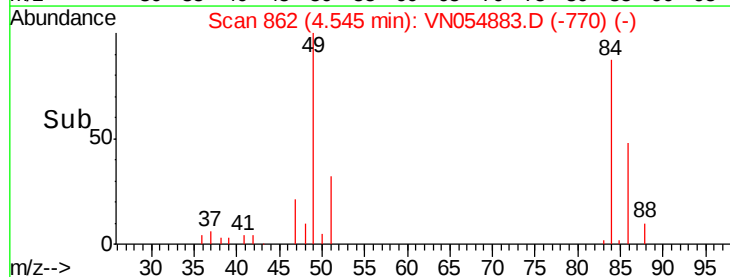
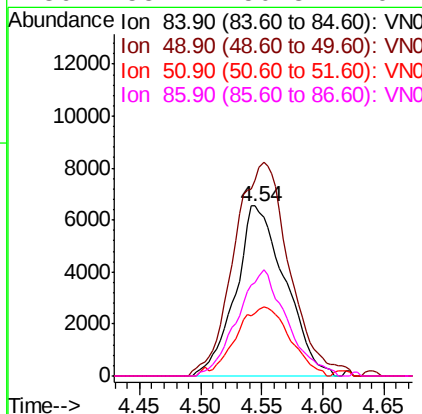
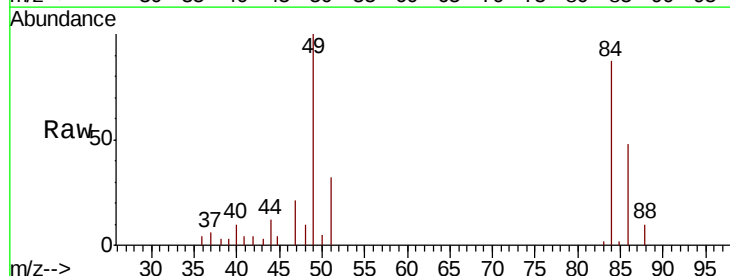
Instrument :
MSVOA_N
ClientSampleId :
BELT-PARKWAY-STAGING-YARD-1

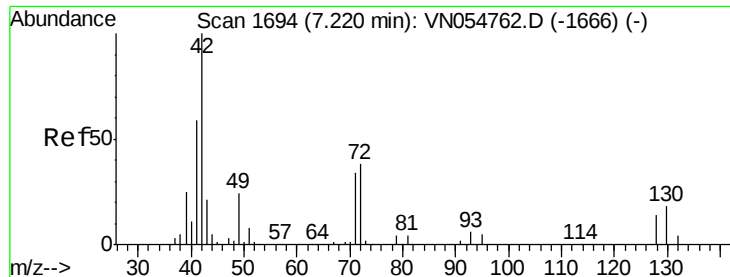
Tot Ion: 43 Resp: 2492
Ion Ratio Lower Upper
43 100
74 13.5 20.8 31.2#



#20
Methylene Chloride
Concen: 3.057 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054883.D
Acq: 1 Apr 2019 19:01

Tgt Ion: 84 Resp: 18449
Ion Ratio Lower Upper
84 100
49 115.3 89.7 134.5
51 36.7 28.2 42.4
86 55.1 50.8 76.2





#29

Tetrahydrofuran

Concen: 0.257 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.01 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

BELT-PARKWAY-STAGING-YARD-1

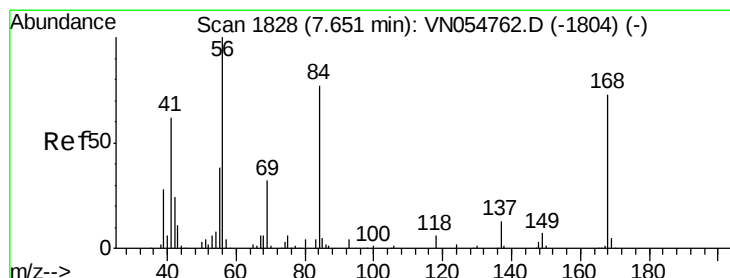
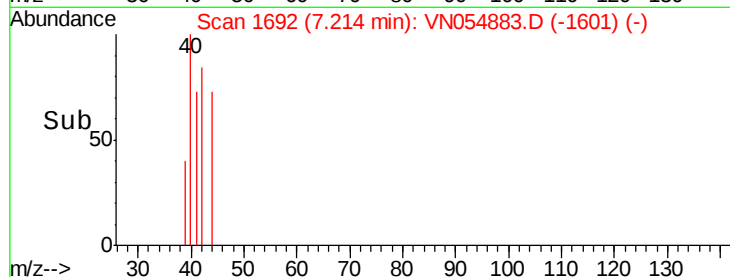
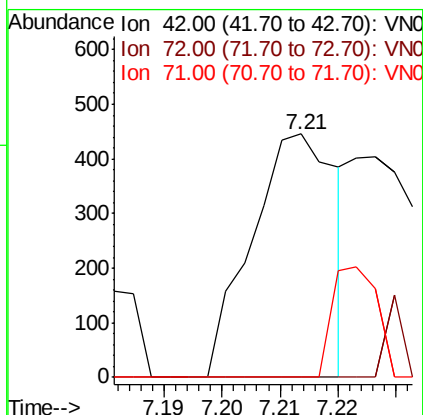
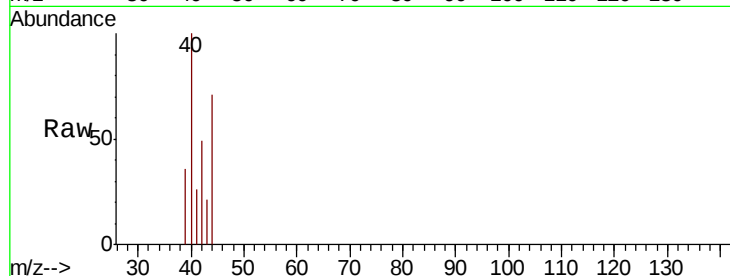
Tot Ion: 42 Resp: 452

Ion Ratio Lower Upper

42 100

72 6.4 37.8 56.6#

71 23.9 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

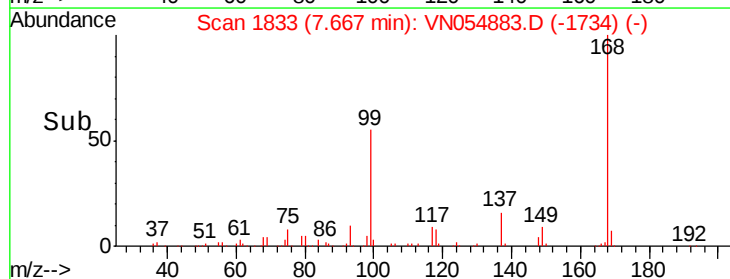
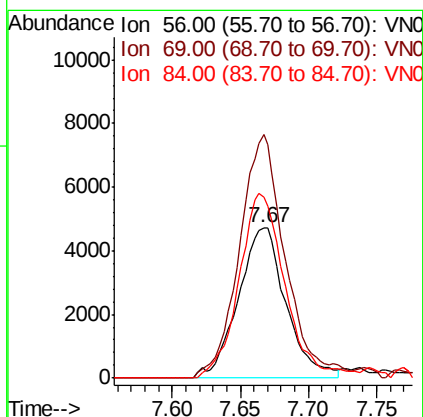
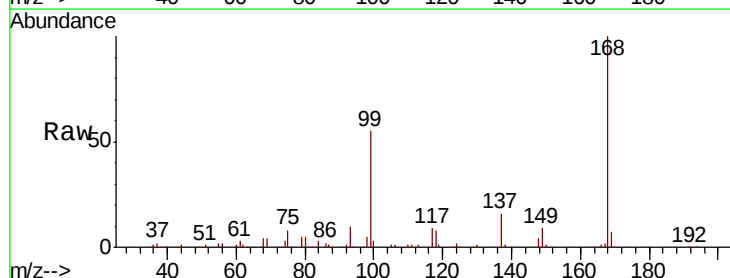
Tgt Ion: 56 Resp: 11494

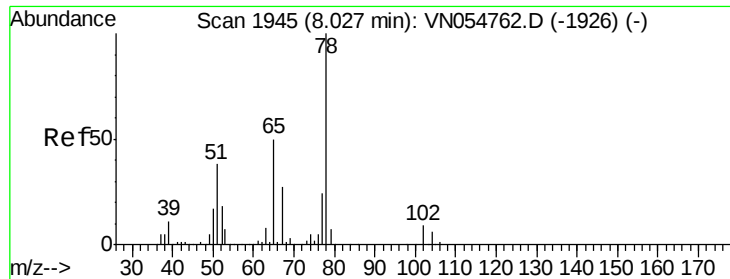
Ion Ratio Lower Upper

56 100

69 162.1 27.8 41.6#

84 120.5 74.6 111.8#

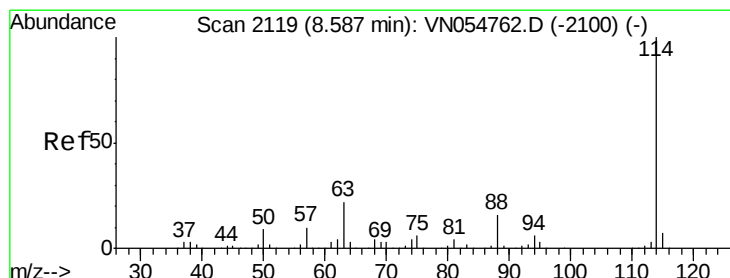
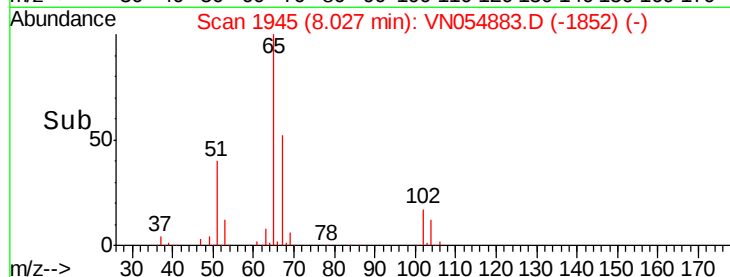
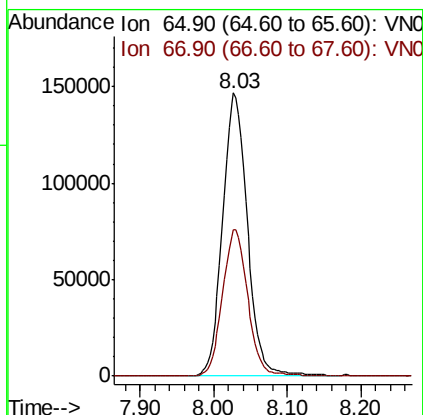
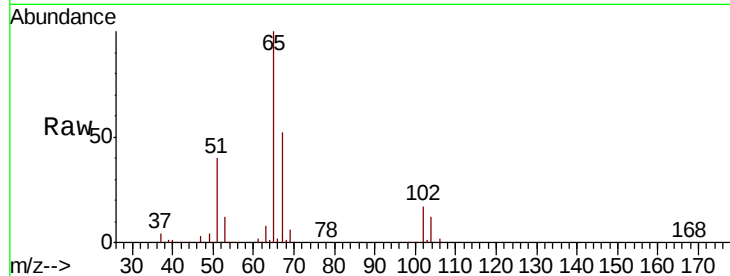




#33
 1,2-Dichloroethane-d4
 Concen: 47.966 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054883.D
 Acq: 1 Apr 2019 19:01

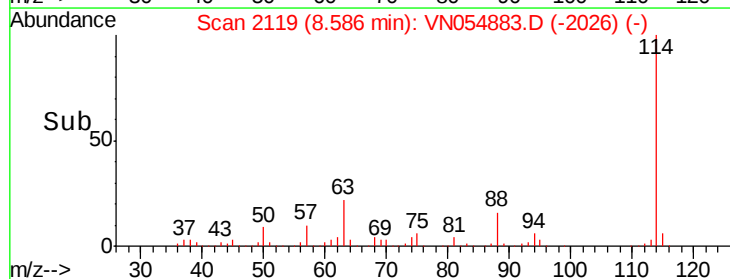
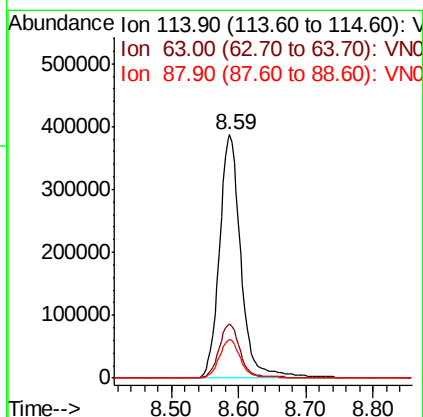
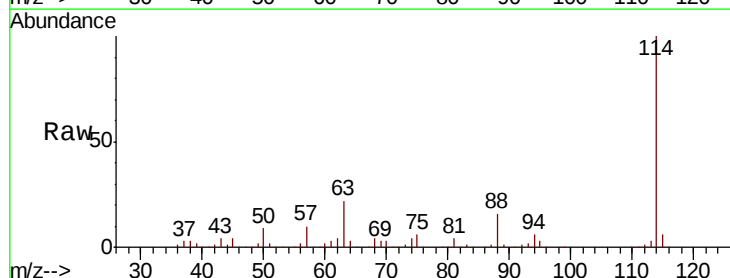
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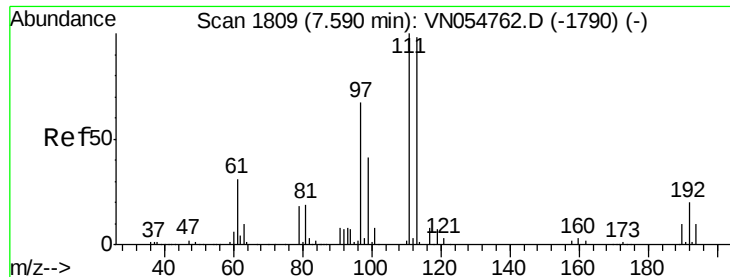
Tot Ion: 65 Resp: 344126
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054883.D
 Acq: 1 Apr 2019 19:01

Tgt Ion: 114 Resp: 865272
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 35.2
 88 15.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.190 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

BELT-PARKWAY-STAGING-YARD-1

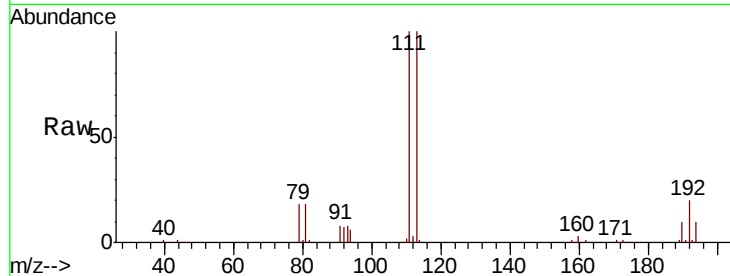
Tot Ion:113 Resp: 272225

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

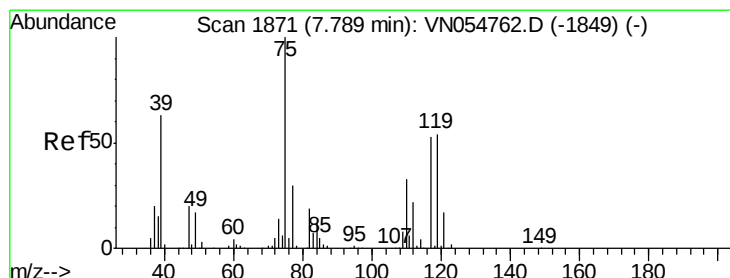
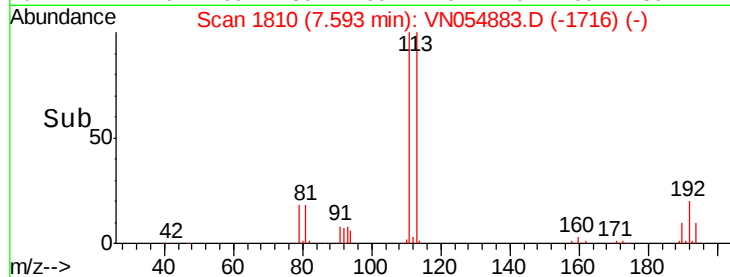
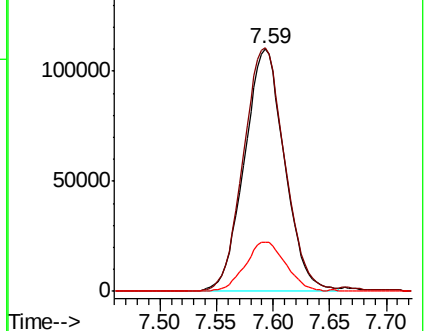
192 20.6 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.026 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

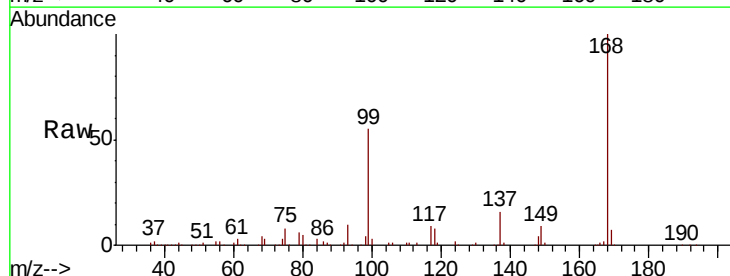
Tgt Ion: 75 Resp: 40522

Ion Ratio Lower Upper

75 100

110 8.4 19.1 57.5#

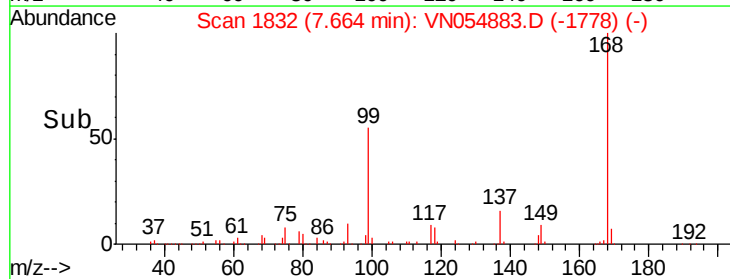
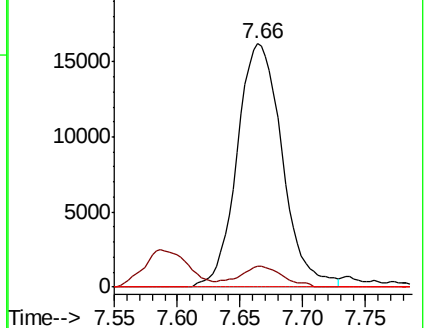
77 0.0 25.0 37.4#

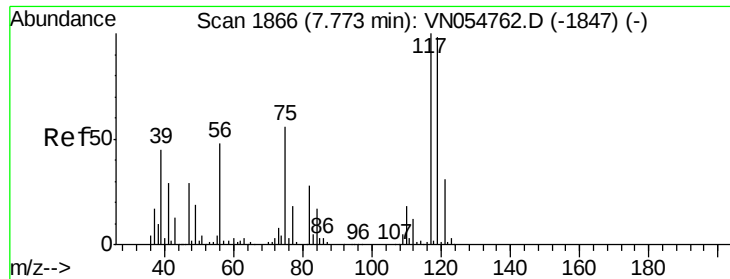


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.191 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

BELT-PARKWAY-STAGING-YARD-1

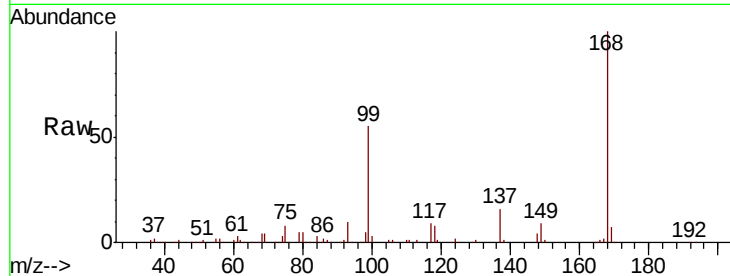
Tot Ion:117 Resp: 48484

Ion Ratio Lower Upper

117 100

119 6.6 76.3 114.5#

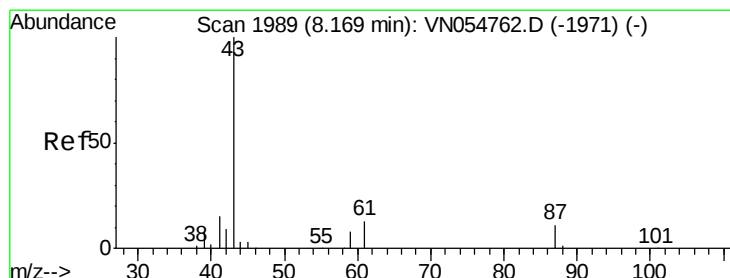
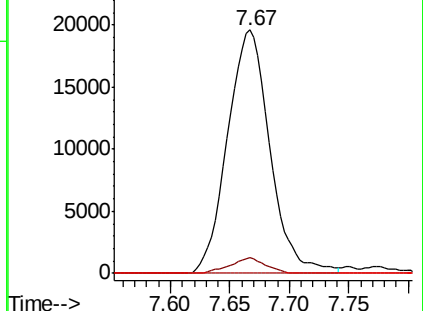
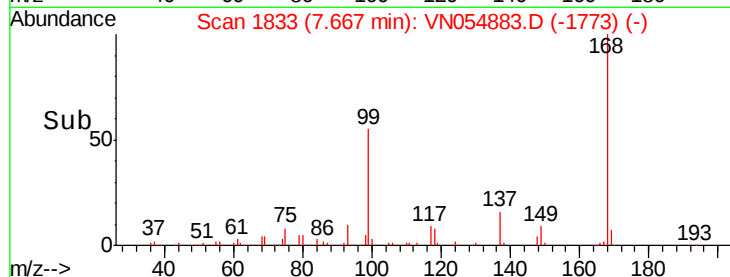
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.486 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

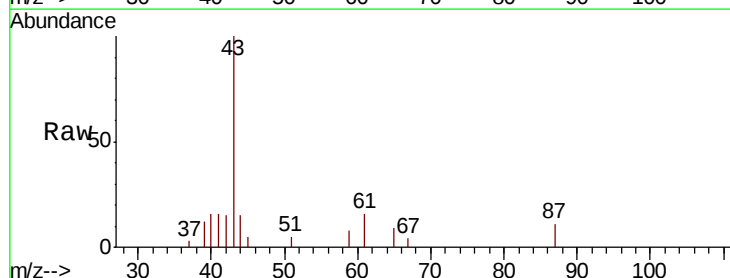
Tgt Ion: 43 Resp: 14279

Ion Ratio Lower Upper

43 100

61 17.3 15.8 23.8

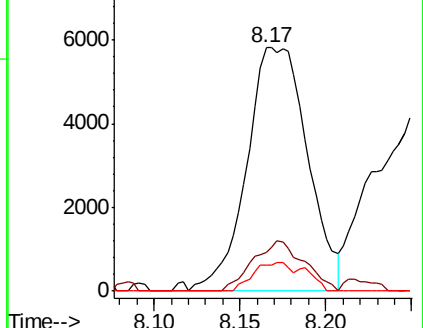
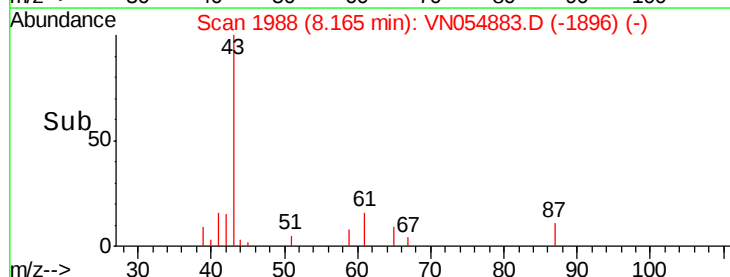
87 7.3 12.0 18.0#

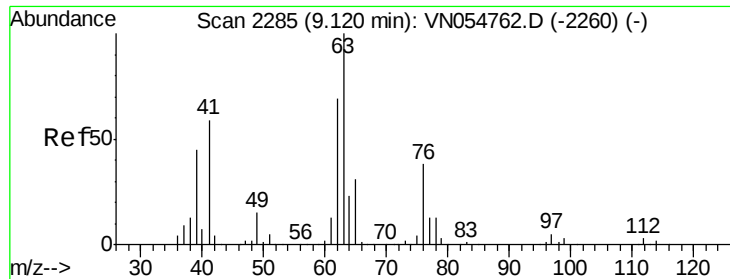


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

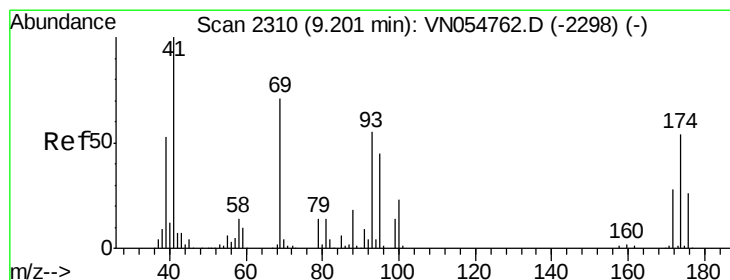
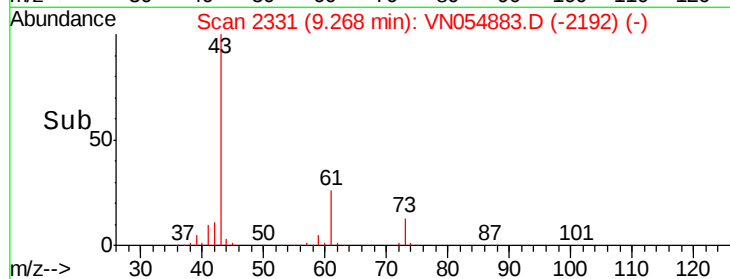
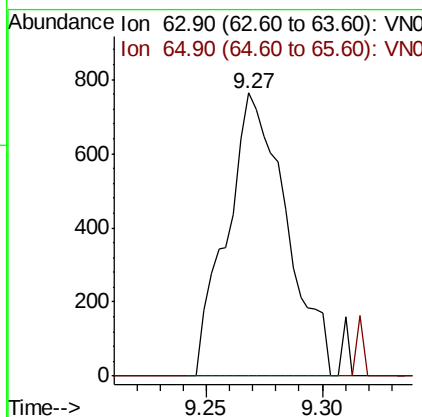
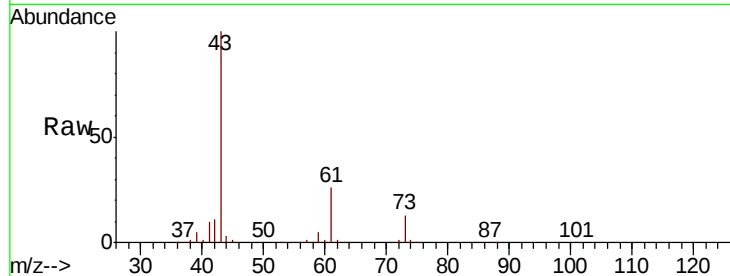




#45
 1,2-Dichloropropane
 Concen: 0.206 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN054883.D
 Acq: 1 Apr 2019 19:01

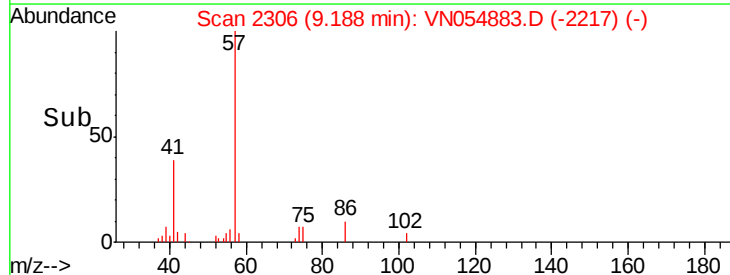
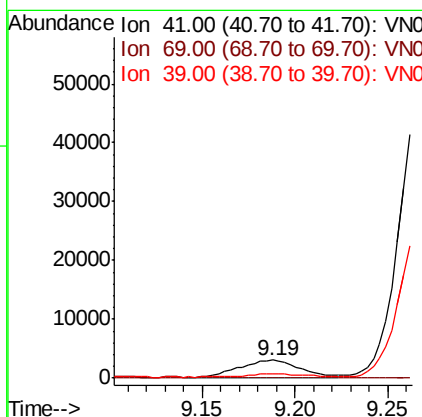
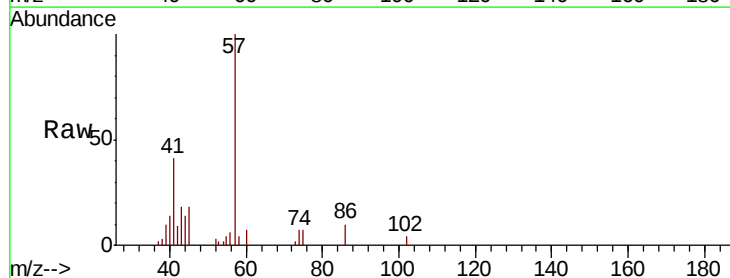
Instrument :
 MSVOA_N
 ClientSampleId :
 BELT-PARKWAY-STAGING-YARD-1

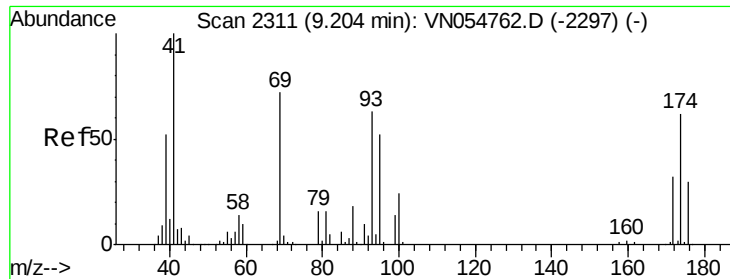
Tot Ion: 63 Resp: 1354
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.226 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.01 min
 Lab File: VN054883.D
 Acq: 1 Apr 2019 19:01

Tgt Ion: 41 Resp: 6386
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 108.8#
 39 0.0 47.5 71.3#





#49

1,4-Dioxane

Concen: 0.581 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.06 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

BELT-PARKWAY-STAGING-YARD-1

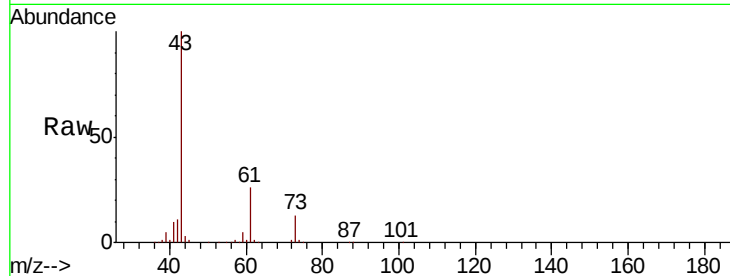
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 3748173.3 24.1 36.1#

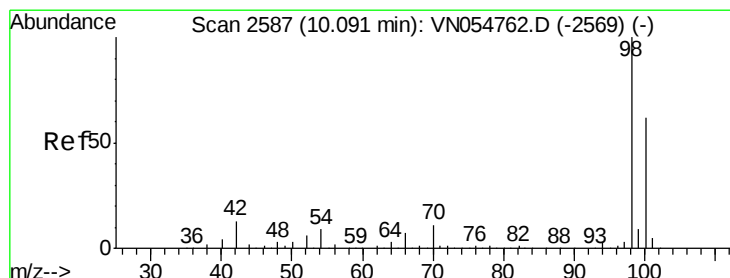
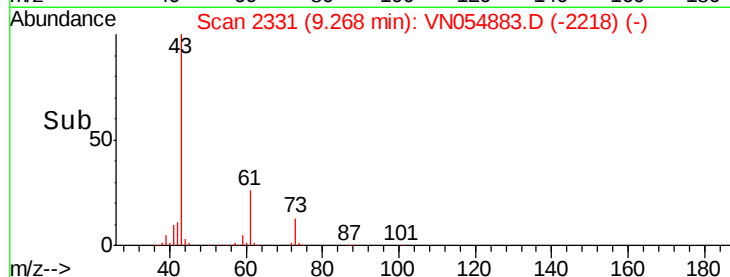
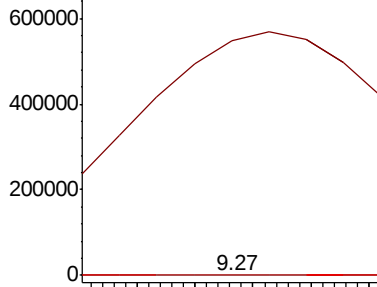
58 16523.3 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.568 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054883.D

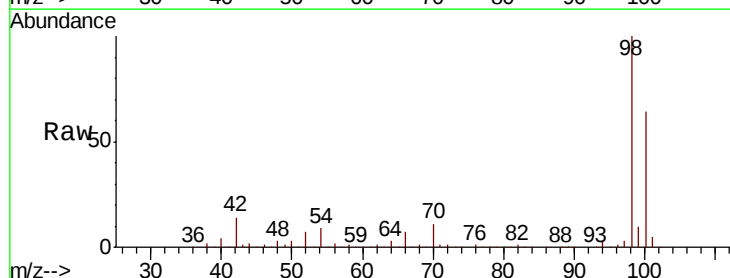
Acq: 1 Apr 2019 19:01

Tgt Ion: 98 Resp: 1041636

Ion Ratio Lower Upper

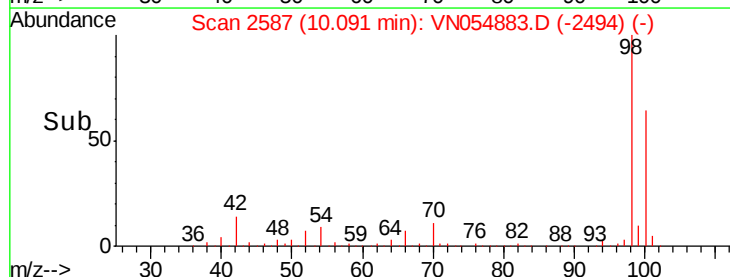
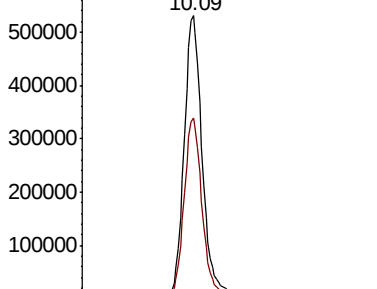
98 100

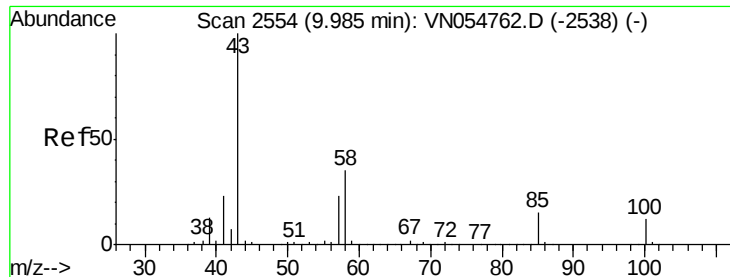
100 64.1 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.332 ug/l

RT: 10.03 min Scan# 2568

Delta R.T. 0.04 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

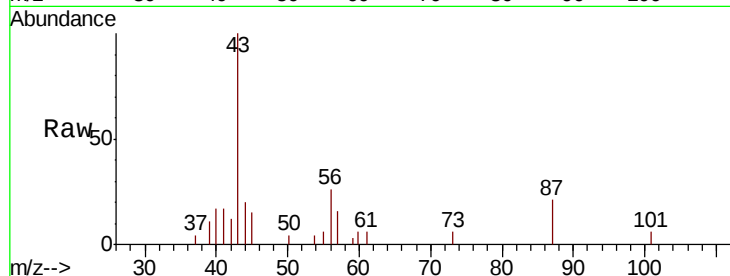
BELT-PARKWAY-STAGING-YARD-1

Tot Ion: 43 Resp: 7192

Ion Ratio Lower Upper

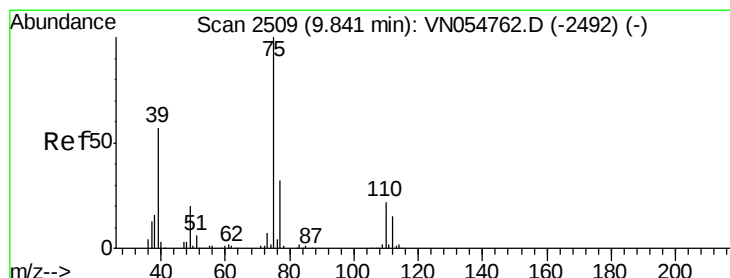
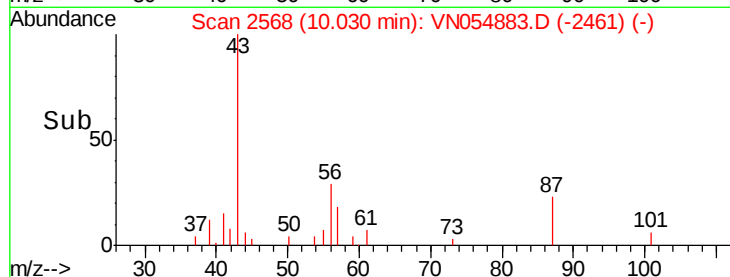
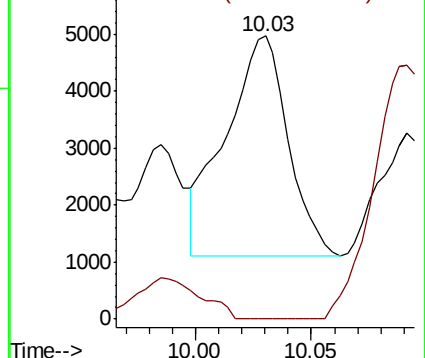
43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.495 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

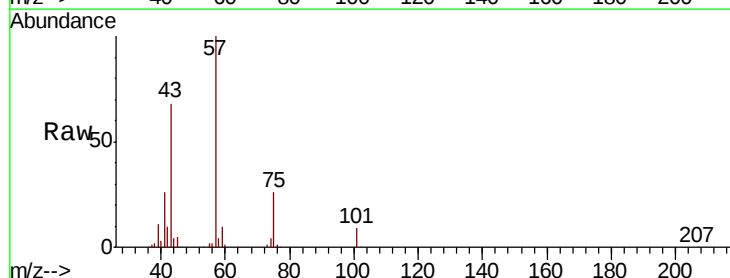
Tgt Ion: 75 Resp: 47488

Ion Ratio Lower Upper

75 100

77 0.9 25.4 38.0#

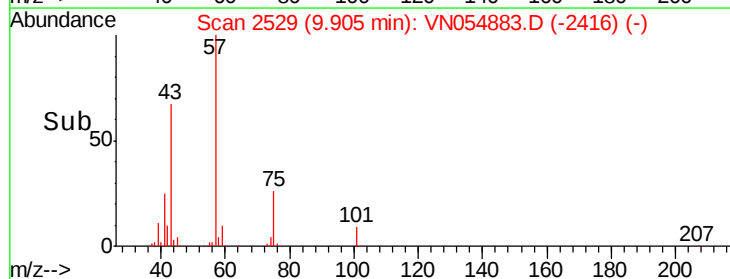
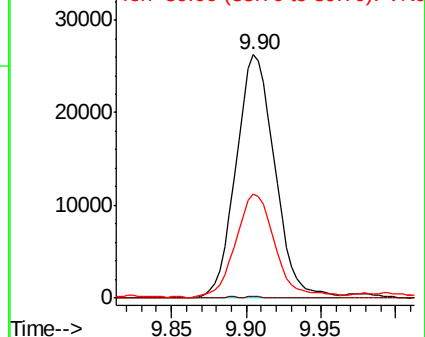
39 42.9 37.2 55.8

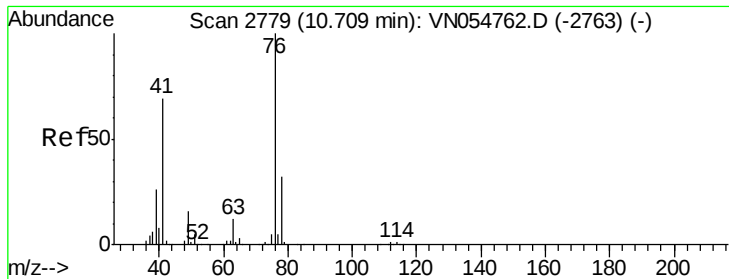


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.954 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

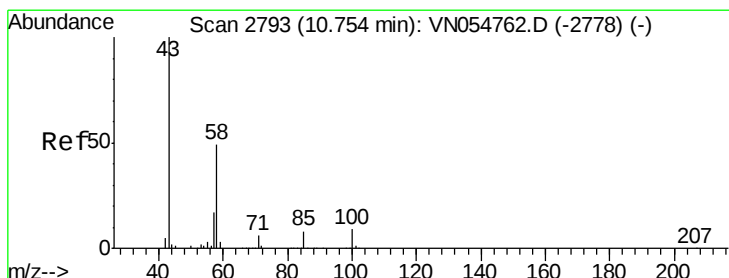
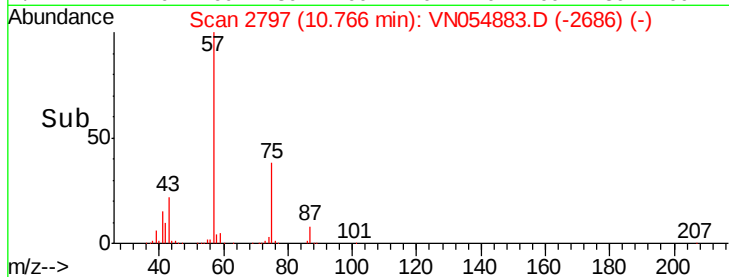
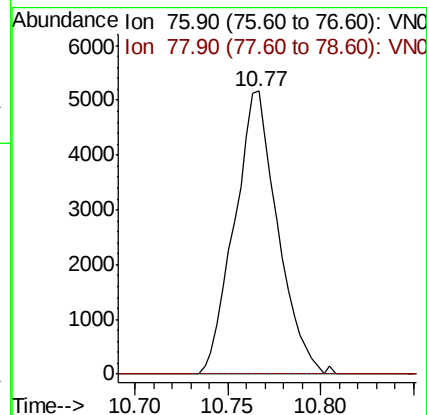
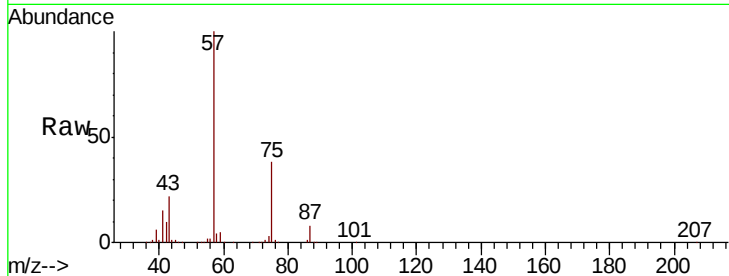
BELT-PARKWAY-STAGING-YARD-1

Tot Ion: 76 Resp: 8372

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



#59

2-Hexanone

Concen: 40.205 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054883.D

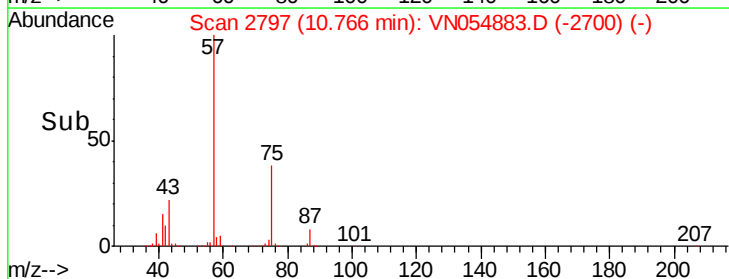
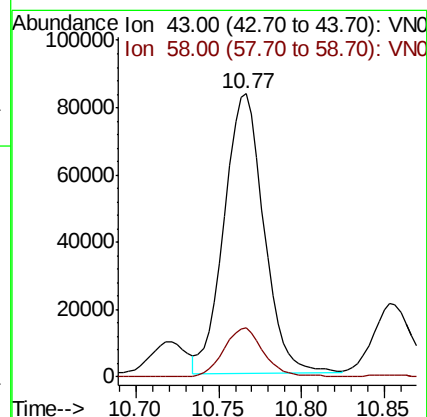
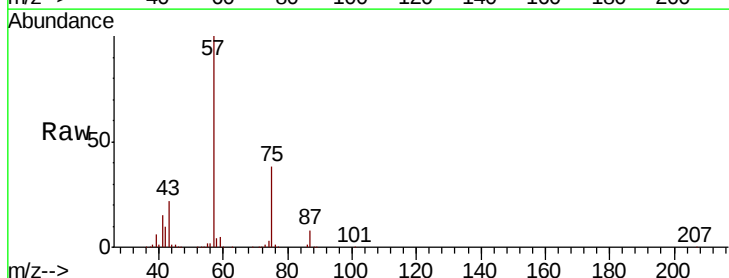
Acq: 1 Apr 2019 19:01

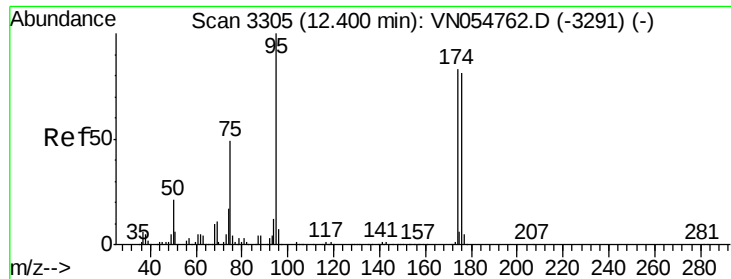
Tgt Ion: 43 Resp: 139018

Ion Ratio Lower Upper

43 100

58 17.8 28.0 83.9#

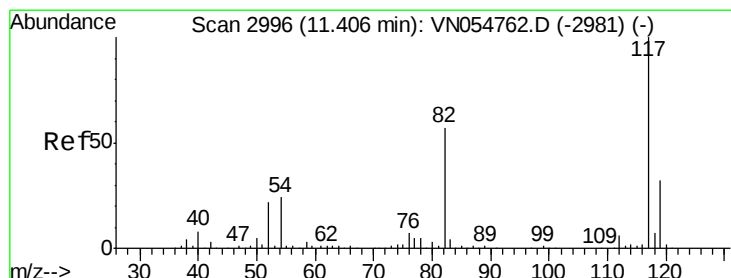
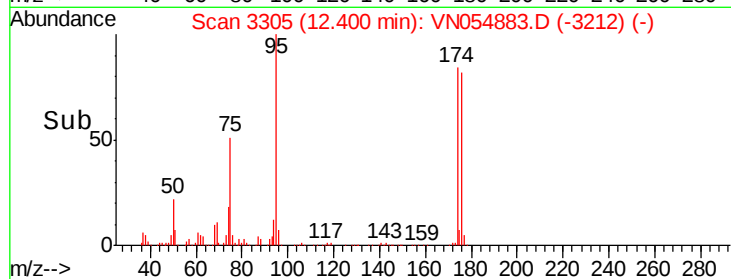
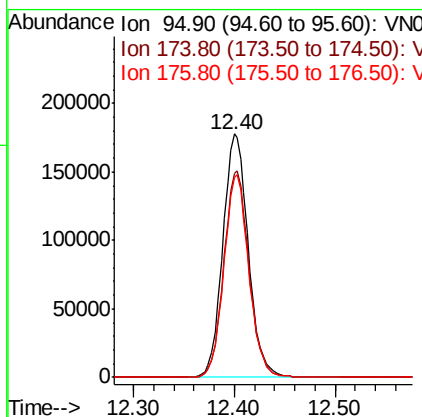
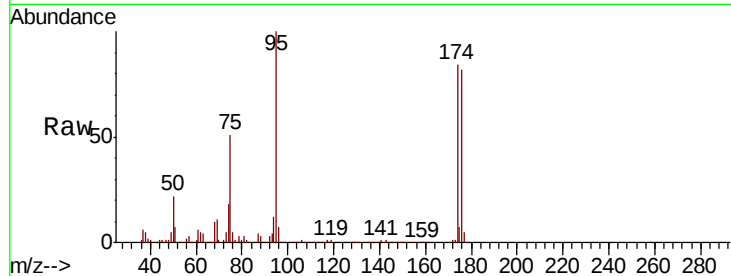




#62
4-Bromofluorobenzene
Concen: 43.802 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054883.D
Acq: 1 Apr 2019 19:01

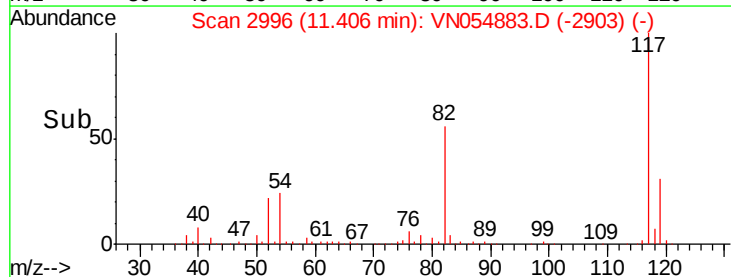
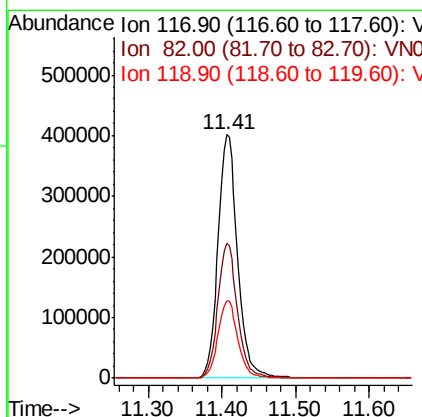
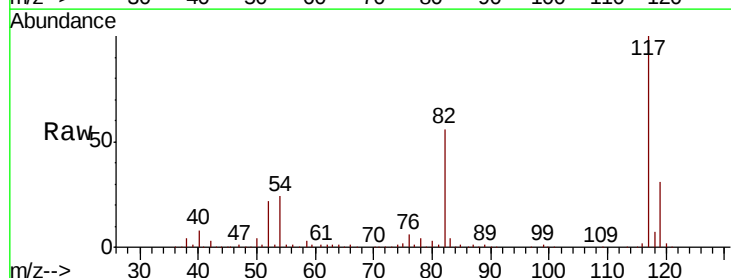
Instrument :
MSVOA_N
ClientSampleId :
BELT-PARKWAY-STAGING-YARD-1

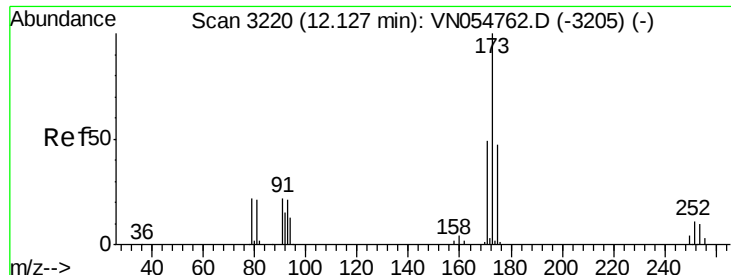
Tot Ion: 95 Resp: 312423
Ion Ratio Lower Upper
95 100
174 84.0 0.0 191.0
176 81.7 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054883.D
Acq: 1 Apr 2019 19:01

Tgt Ion: 117 Resp: 738777
Ion Ratio Lower Upper
117 100
82 55.5 40.0 60.0
119 31.5 25.8 38.6





#71

Bromoform

Concen: 0.715 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

BELT-PARKWAY-STAGING-YARD-1

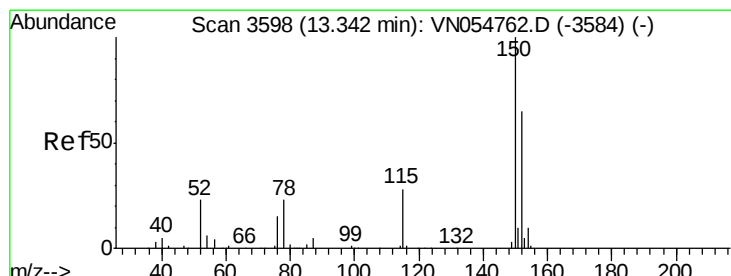
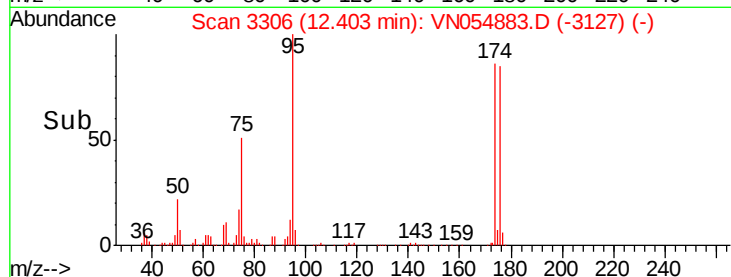
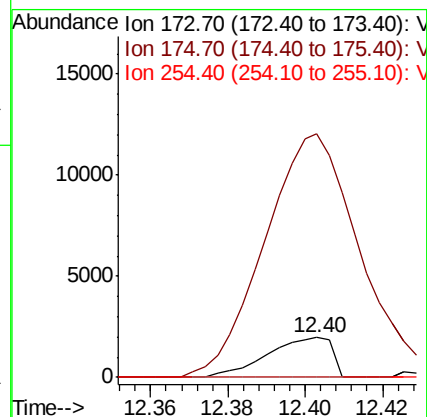
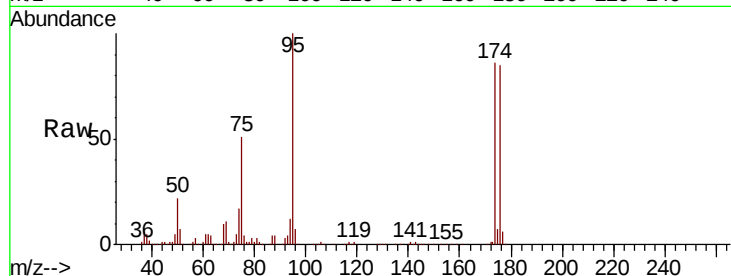
Tot Ion:173 Resp: 2269

Ion Ratio Lower Upper

173 100

175 771.7 24.4 73.2#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

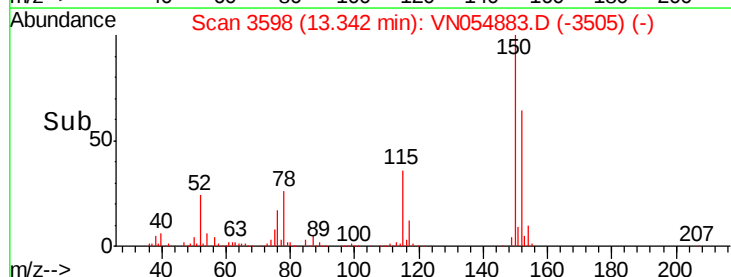
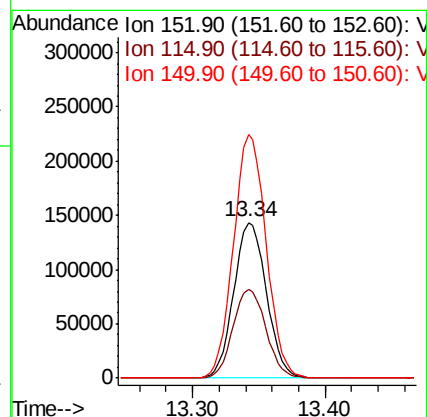
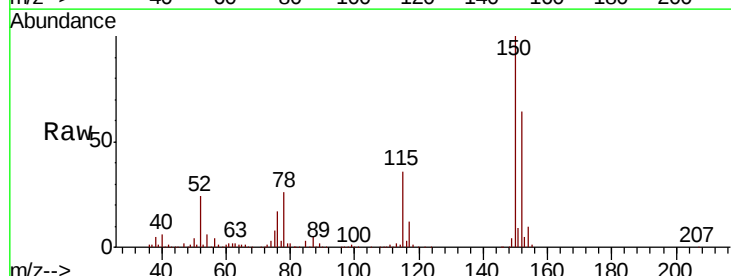
Tgt Ion:152 Resp: 245460

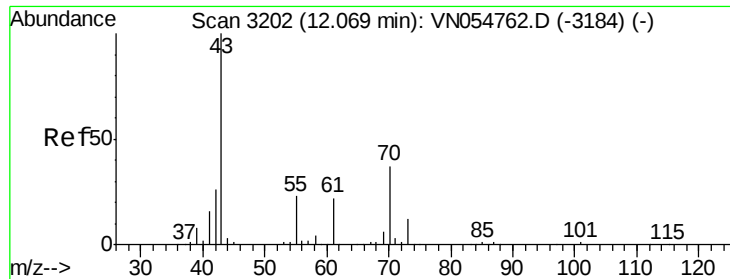
Ion Ratio Lower Upper

152 100

115 57.7 27.2 81.6

150 156.6 0.0 349.2





#74

N-amvl acetate

Concen: 1.941 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

BELT-PARKWAY-STAGING-YARD-1

Tot Ion: 43 Resp: 12135

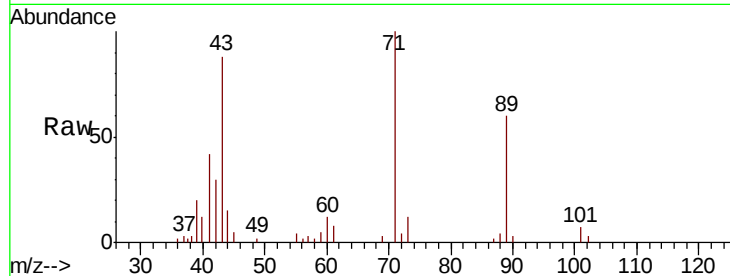
Ion Ratio Lower Upper

43 100

70 0.6 35.4 53.0#

55 4.5 19.8 29.6#

61 9.4 19.8 29.6#

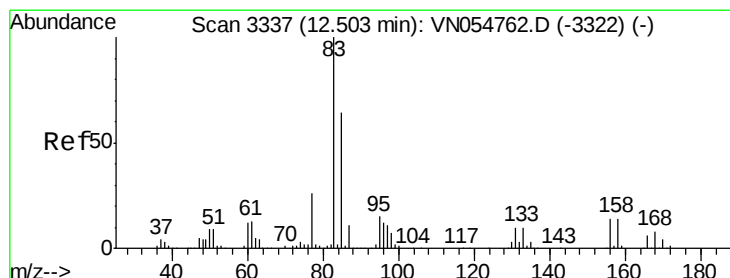
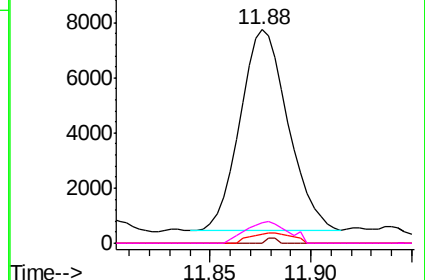
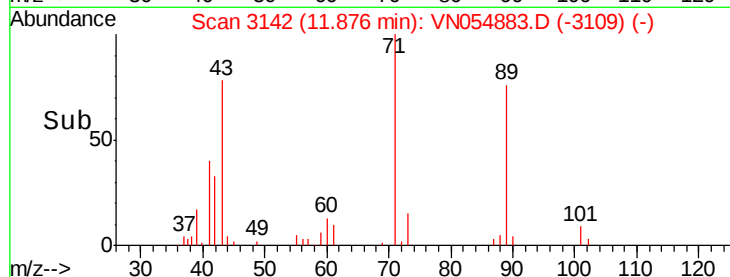


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

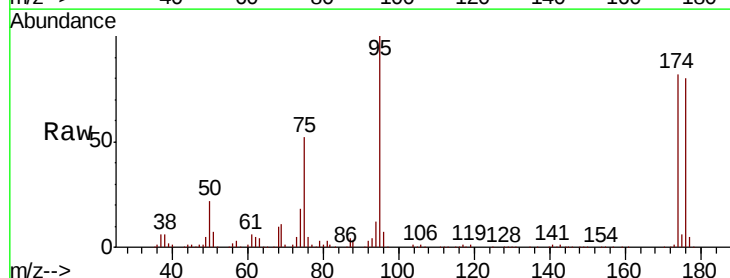
Tgt Ion: 83 Resp: 164

Ion Ratio Lower Upper

83 100

131 249.4 5.8 17.4#

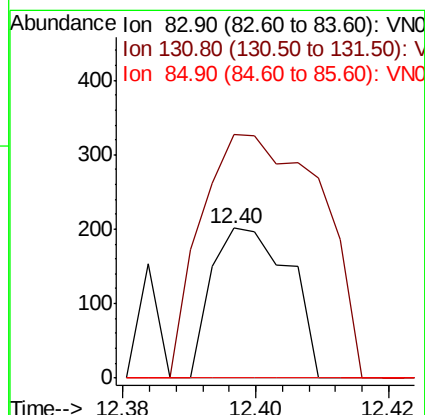
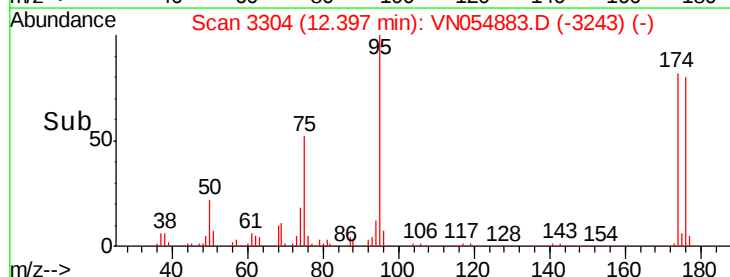
85 0.0 32.2 96.6#

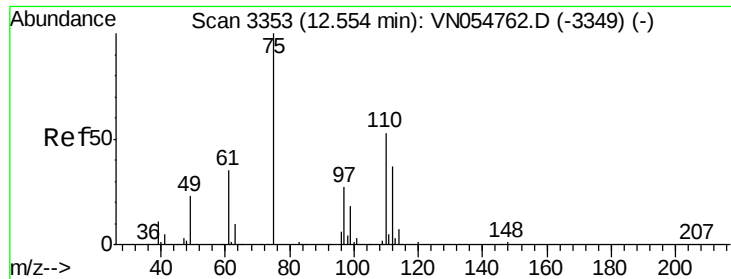


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 37.725 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

Instrument :

MSVOA_N

ClientSampleId :

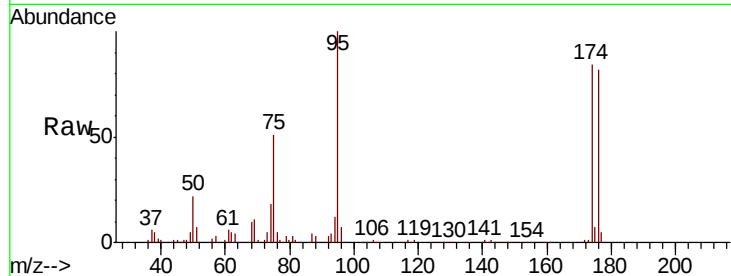
BELT-PARKWAY-STAGING-YARD-1

Tot Ion: 75 Resp: 160867

Ion Ratio Lower Upper

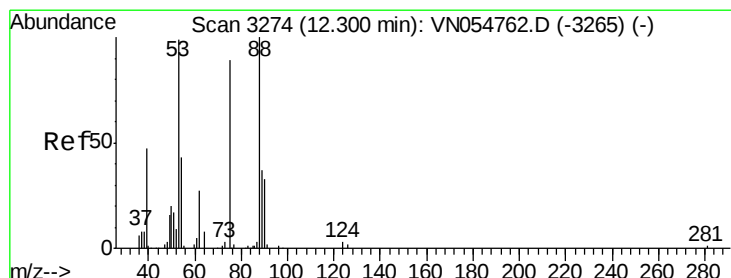
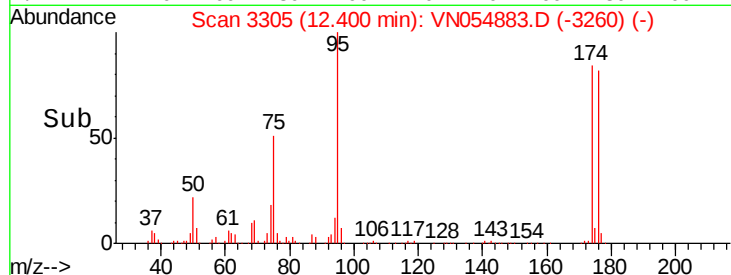
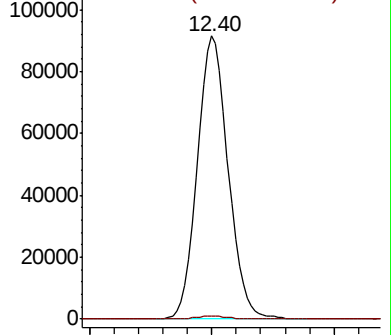
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 146.740 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054883.D

Acq: 1 Apr 2019 19:01

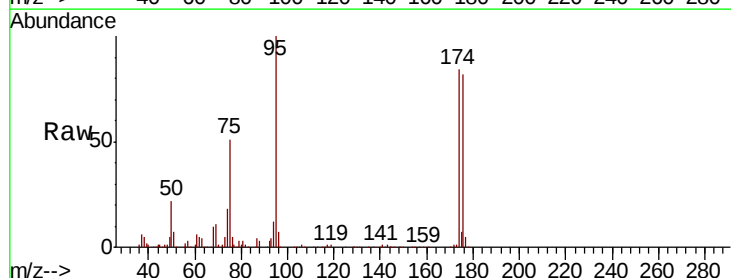
Tgt Ion: 75 Resp: 160867

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

