

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057878.D
 Acq On : 10 Sep 2019 21:05
 Operator : JC/SP
 Sample : K4623-34
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D2-(4)

Quant Time: Sep 11 03:57:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	292157	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	493740	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	455635	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	234187	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	312208	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
35) Dibromofluoromethane	7.58	113	211252	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
50) Toluene-d8	10.09	98	869128	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	12.40	95	281104	41.69	ug/l	0.00
Spiked Amount			Recovery	=	83.38%	

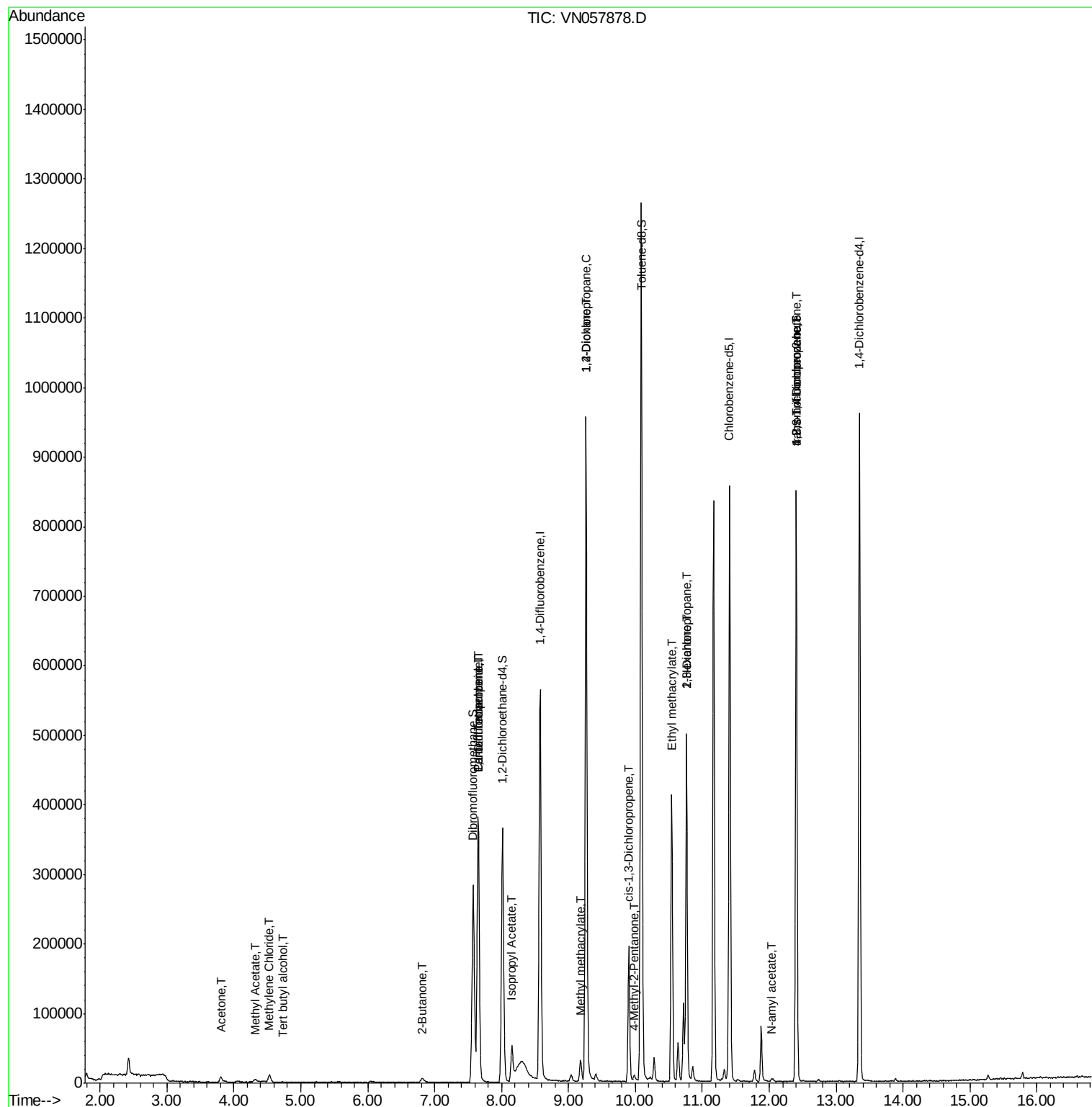
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	107	Below Cal	#	2
11) Tert butyl alcohol	4.73	59	278	0.388	ug/l #	72
16) Acetone	3.80	43	12826	6.612	ug/l	97
18) Methyl Acetate	4.31	43	5587	1.080	ug/l	96
20) Methylene Chloride	4.54	84	6911	0.657	ug/l	93
25) 2-Butanone	6.83	43	2000	0.712	ug/l #	88
31) Cyclohexane	7.65	56	7664	Below Cal	#	29
36) 1,1-Dichloropropene	7.65	75	25605	4.472	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30370	5.809	ug/l #	16
43) Isopropyl Acetate	8.16	43	67153	6.750	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1072	0.214	ug/l #	44
48) Methyl methacrylate	9.18	41	4598	0.911	ug/l #	13
49) 1,4-Dioxane	9.26	88	34	0.398	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5760	0.978	ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	33868	4.812	ug/l #	66
56) Ethyl methacrylate	10.54	69	1585	0.229	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4515	0.570	ug/l #	43
59) 2-Hexanone	10.76	43	73532	16.663	ug/l #	56
74) N-amyl acetate	12.04	43	2940	0.372	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	153084	28.896	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	153084	101.686	ug/l #	6
95) Naphthalene	15.13	128	521	Below Cal	#	69

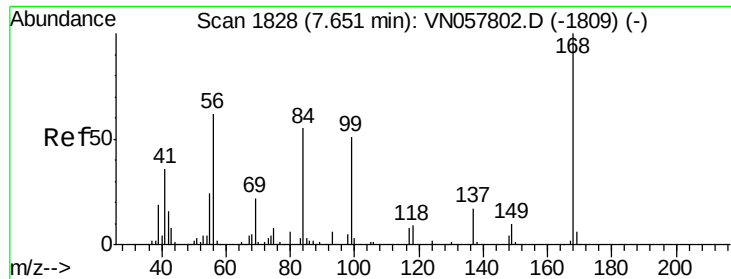
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057878.D

Acq: 10 Sep 2019 21:05

Instrument :

MSVOA_N

ClientSampled :

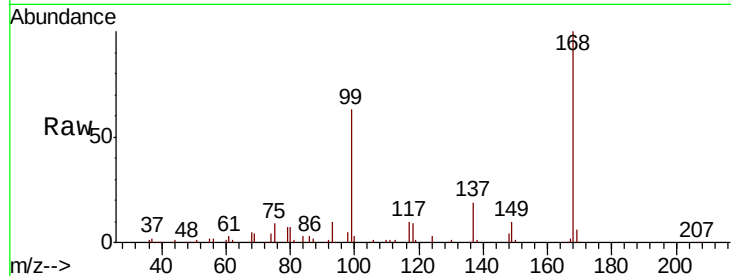
PAR-11-D2-(4)

Tgt Ion: 168 Resp: 292157

Ion Ratio Lower Upper

168 100

99 62.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

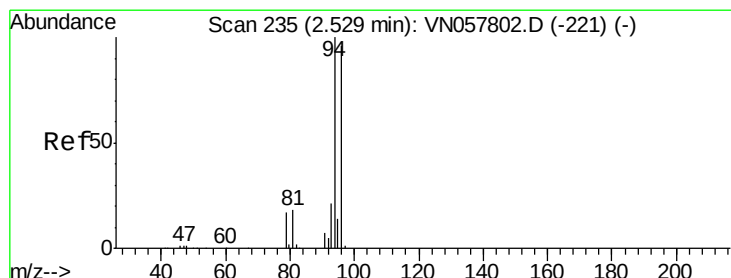
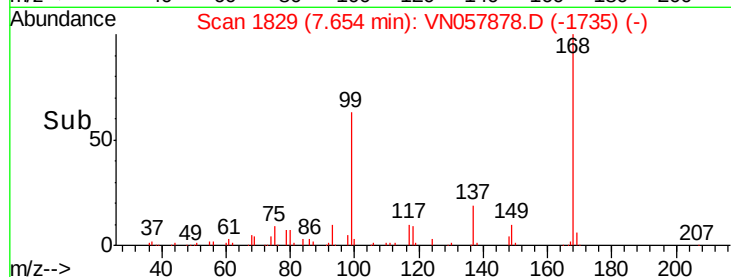
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN057878.D

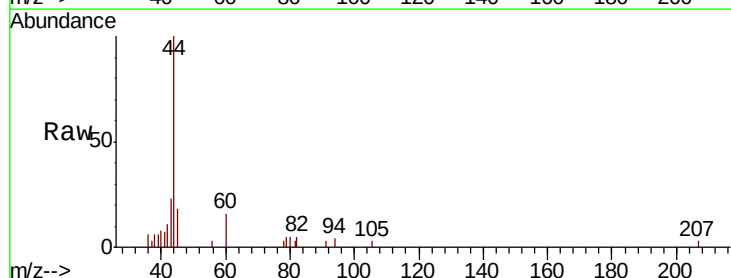
Acq: 10 Sep 2019 21:05

Tgt Ion: 94 Resp: 107

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.54

250

200

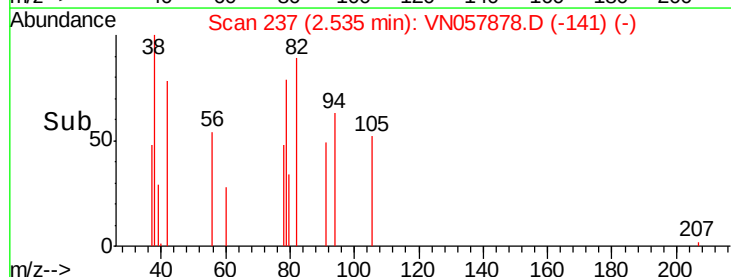
150

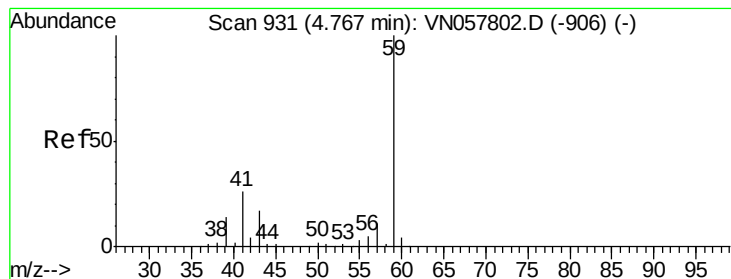
100

50

0

Time-->



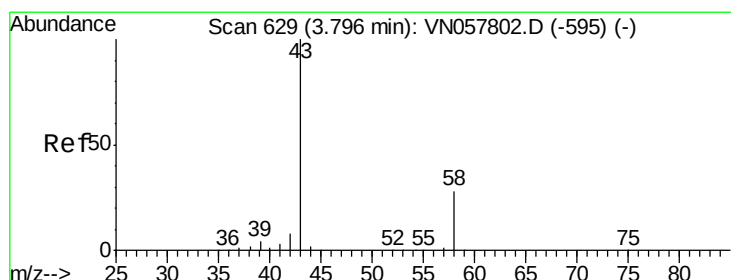
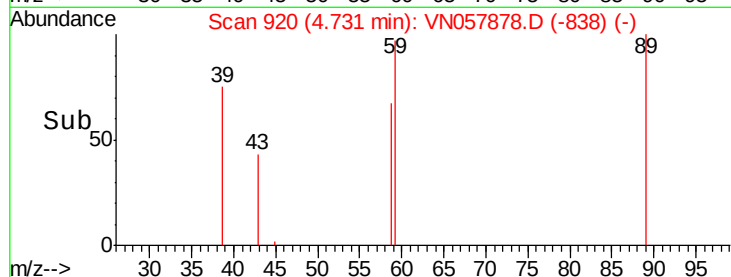
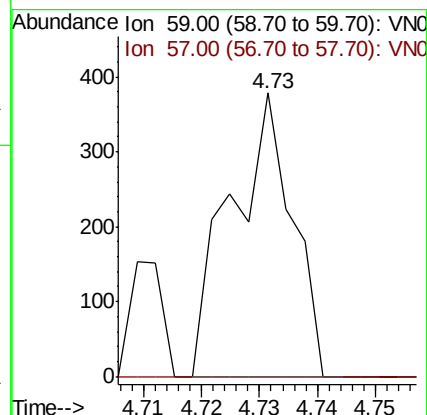
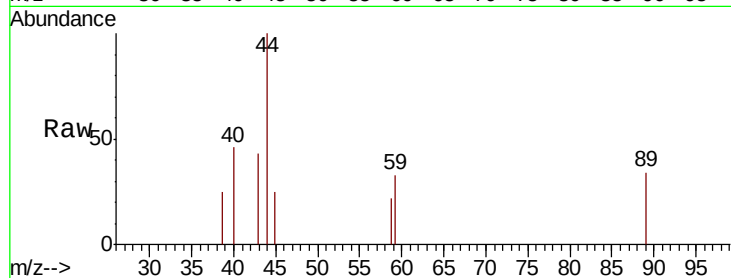


#11

Tert butyl alcohol
 Concen: 0.388 ug/l
 RT: 4.73 min Scan# 920
 Delta R.T. -0.04 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D2-(4)

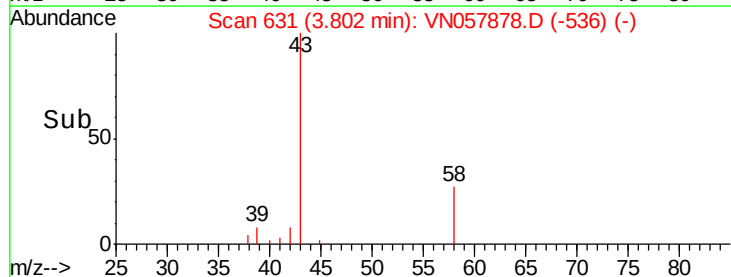
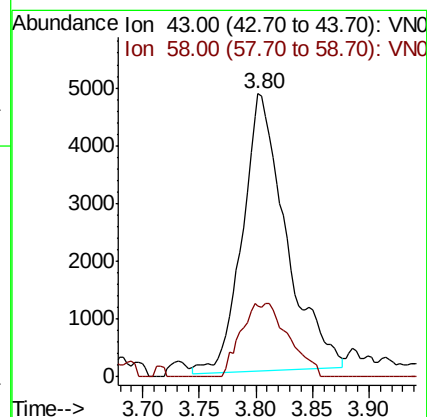
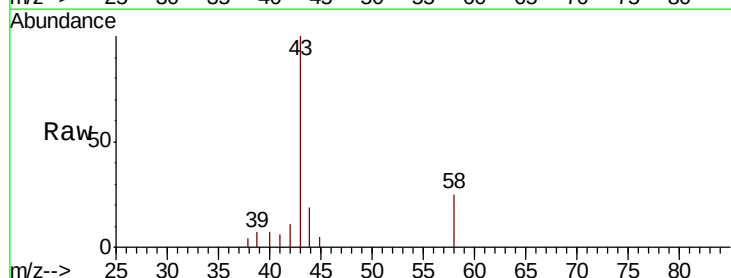
Tgt Ion: 59 Resp: 278
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

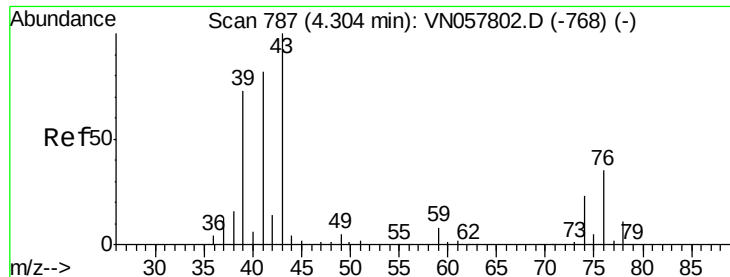


#16

Acetone
 Concen: 6.612 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

Tgt Ion: 43 Resp: 12826
 Ion Ratio Lower Upper
 43 100
 58 26.1 22.2 33.2

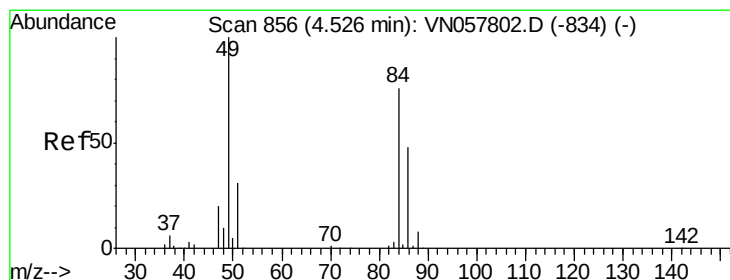
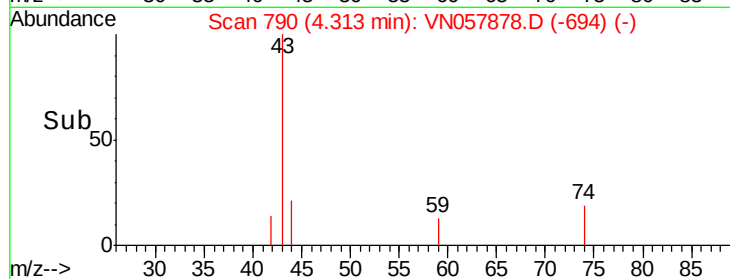
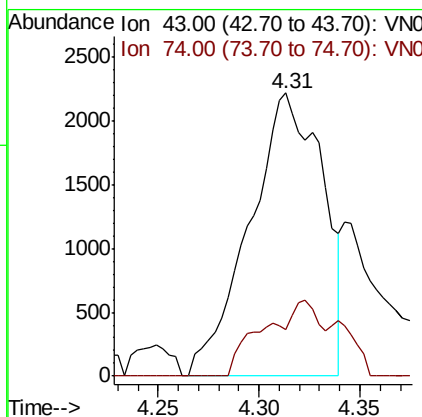
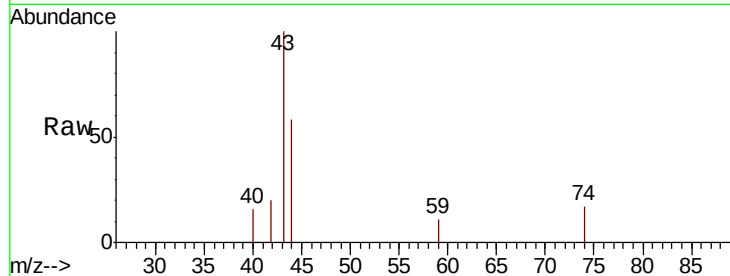




#18
Methyl Acetate
Concen: 1.080 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

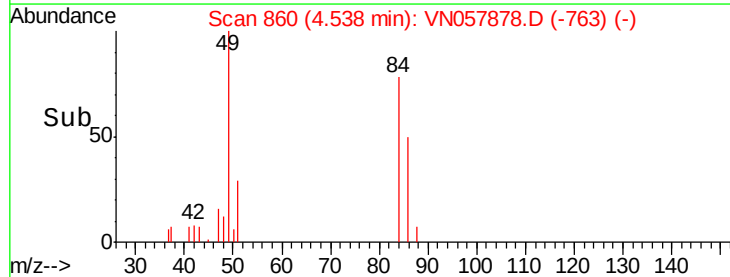
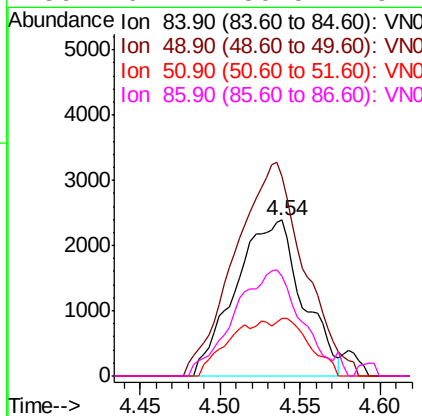
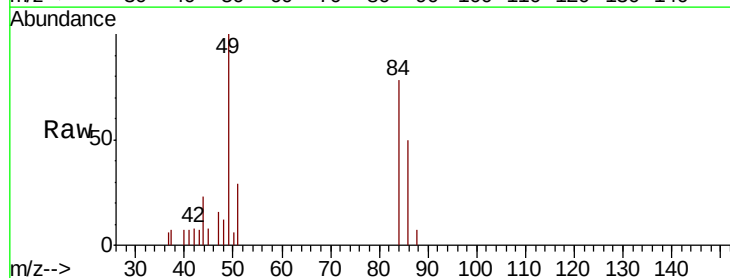
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D2-(4)

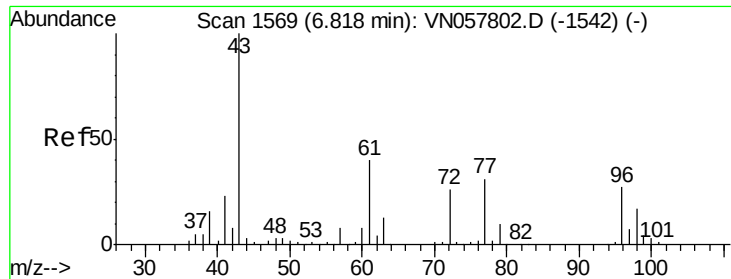
Tgt Ion: 43 Resp: 5587
Ion Ratio Lower Upper
43 100
74 20.6 17.9 26.9



#20
Methylene Chloride
Concen: 0.657 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

Tgt Ion: 84 Resp: 6911
Ion Ratio Lower Upper
84 100
49 119.9 104.8 157.2
51 37.0 33.0 49.4
86 64.4 50.5 75.7

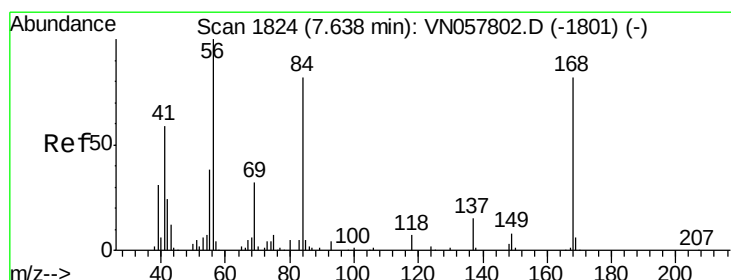
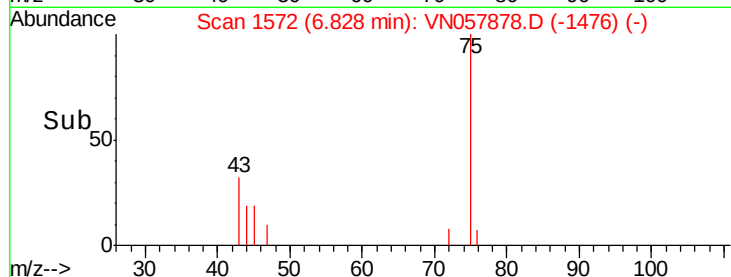
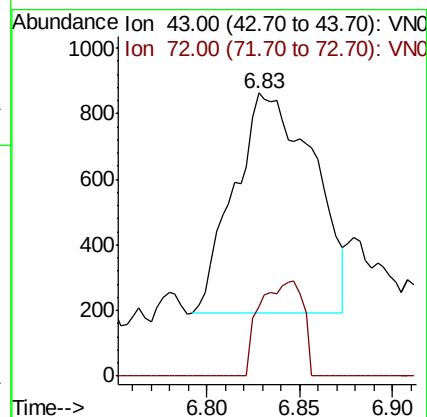
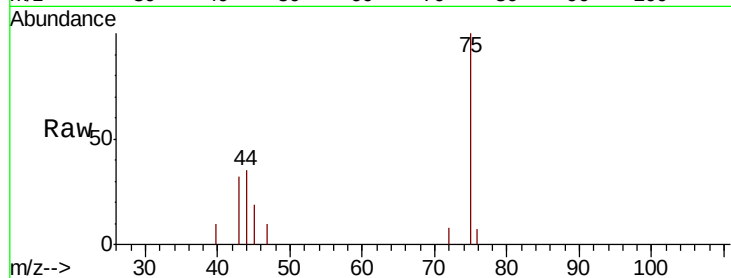




#25
2-Butanone
Concen: 0.712 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

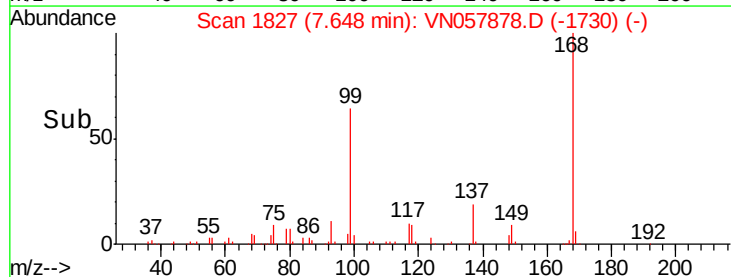
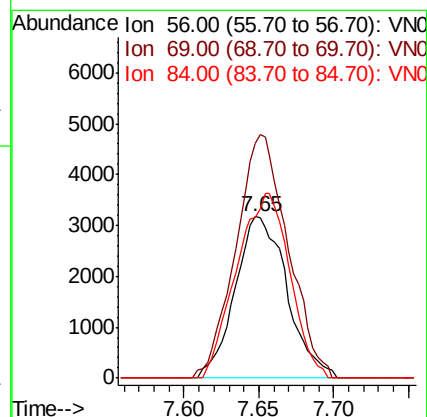
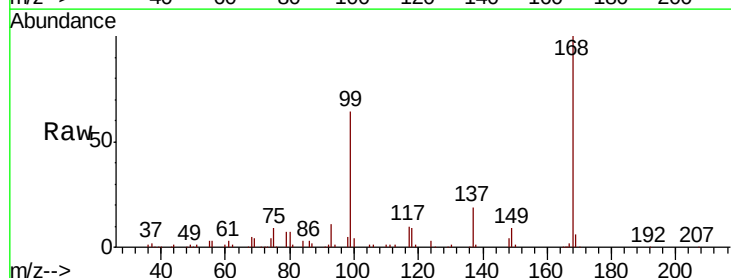
Instrument :
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ClientSampleId :
PAR-11-D2-(4)

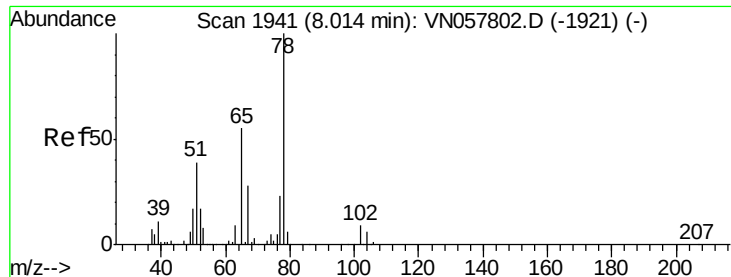
Tgt Ion: 43 Resp: 2000
Ion Ratio Lower Upper
43 100
72 31.6 20.6 30.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

Tgt Ion: 56 Resp: 7664
Ion Ratio Lower Upper
56 100
69 145.5 25.9 38.9#
84 99.7 65.6 98.4#

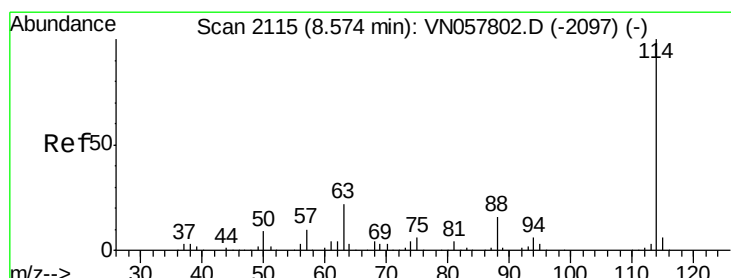
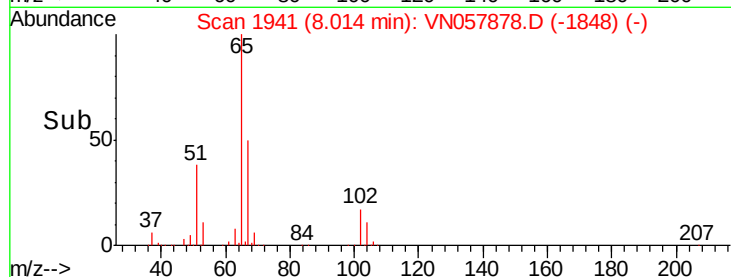
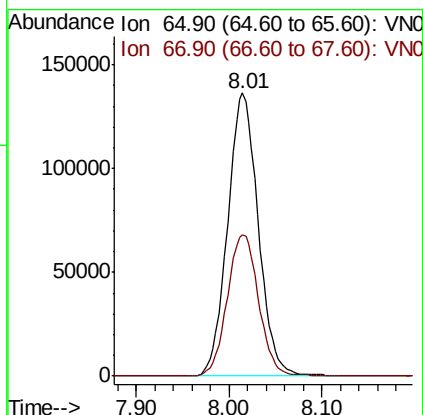
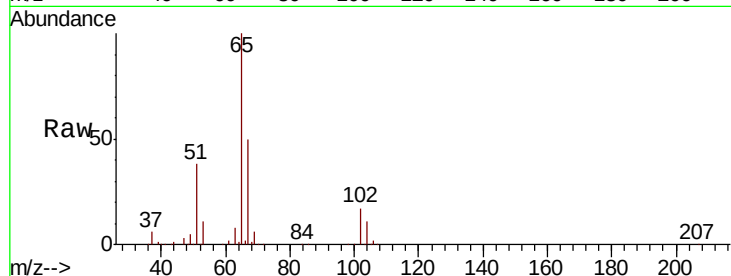




#33
 1,2-Dichloroethane-d4
 Concen: 52.761 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

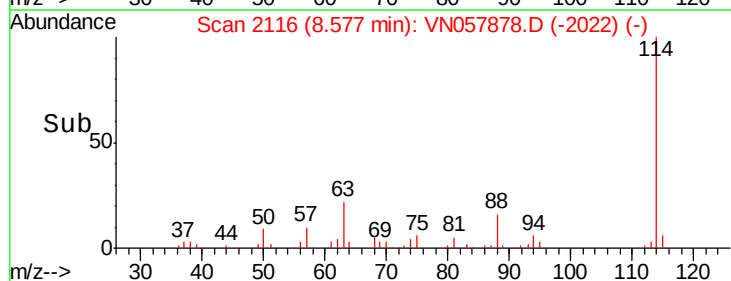
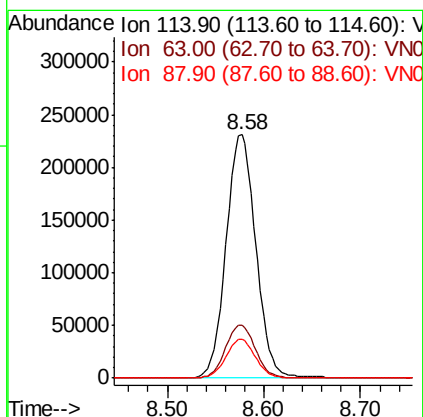
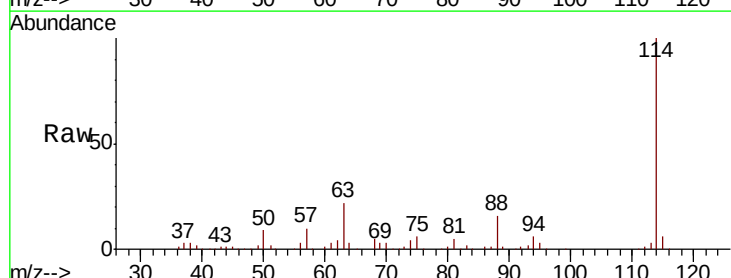
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 MSVOA_N
 ClientSampleId :
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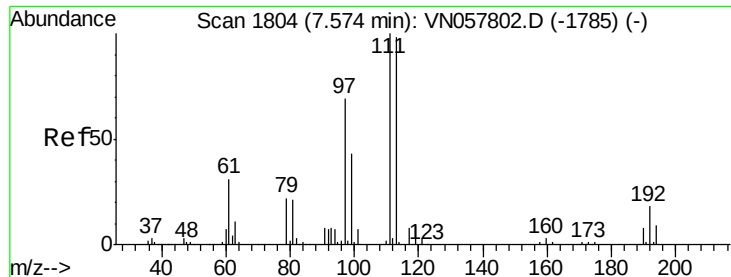
Tgt Ion: 65 Resp: 312208
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

Tgt Ion: 114 Resp: 493740
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 44.0
 88 16.1 0.0 31.4

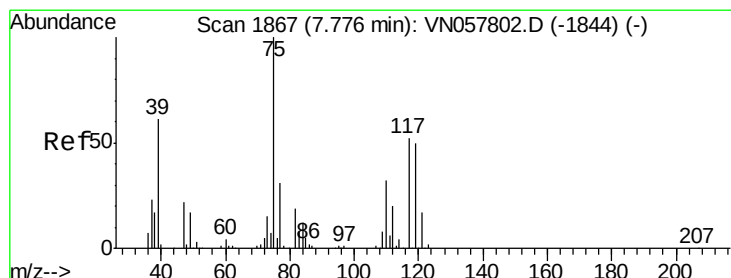
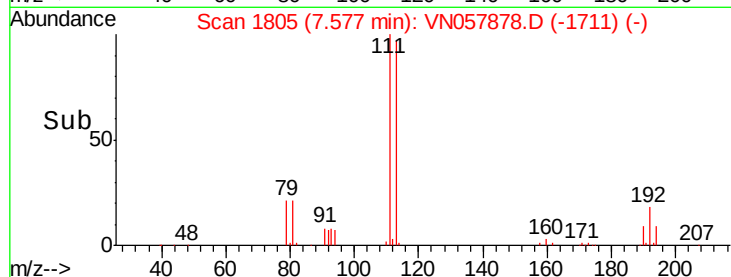
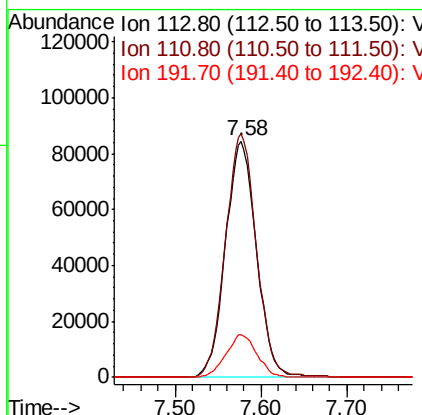
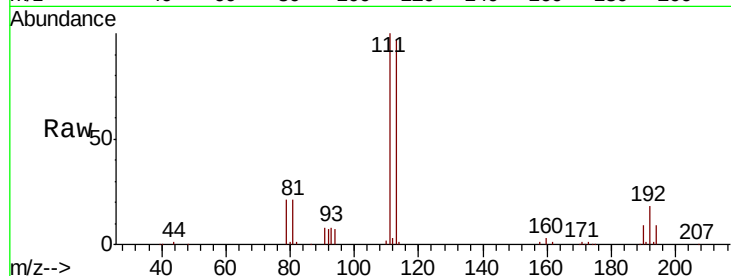




#35
 Dibromofluoromethane
 Concen: 46.357 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

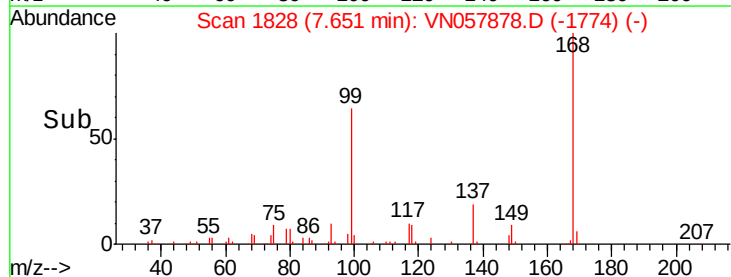
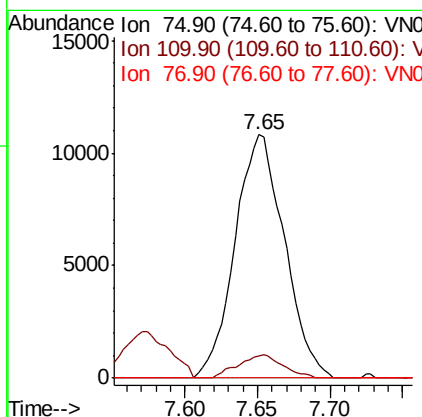
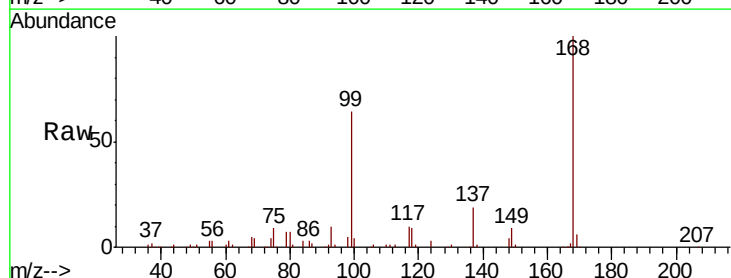
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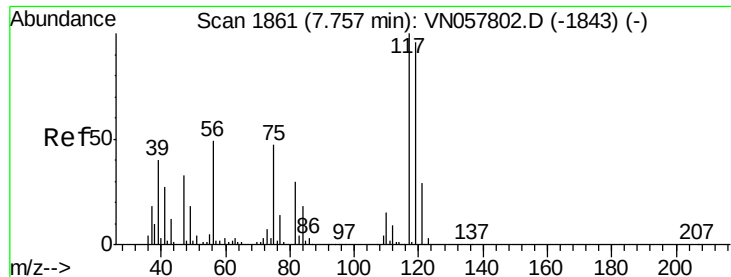
Tgt Ion: 113 Resp: 211252
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.3 121.9
 192 18.1 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.472 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

Tgt Ion: 75 Resp: 25605
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.3 48.9#
 77 0.0 25.0 37.4#

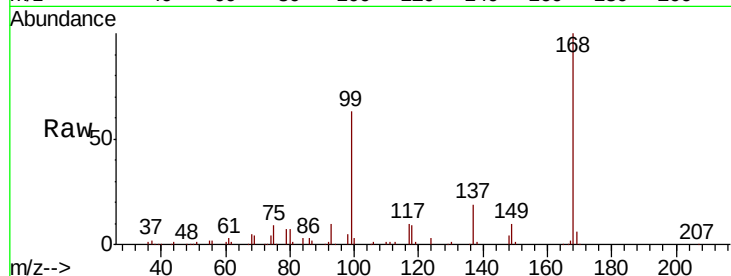




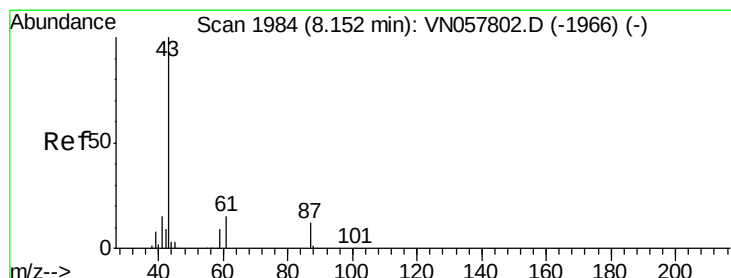
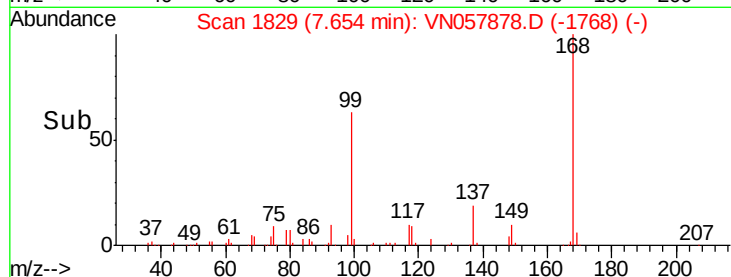
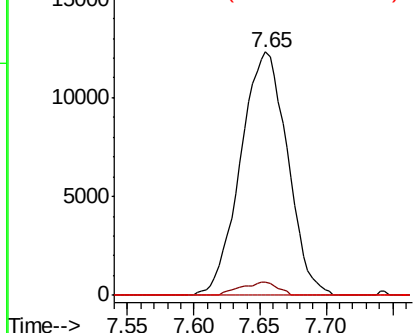
#38
Carbon Tetrachloride
Concen: 5.809 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.10 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D2-(4)

Tgt Ion: 117 Resp: 30370
Ion Ratio Lower Upper
117 100
119 5.6 76.9 115.3#
121 0.0 23.4 35.2#

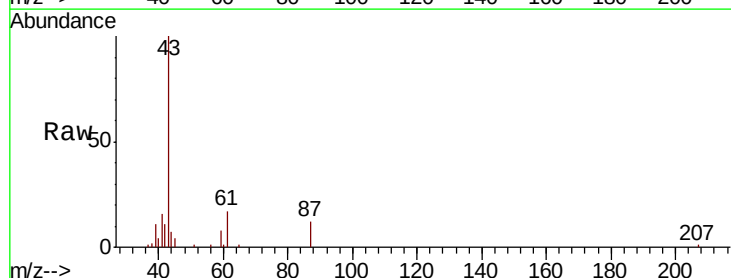


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

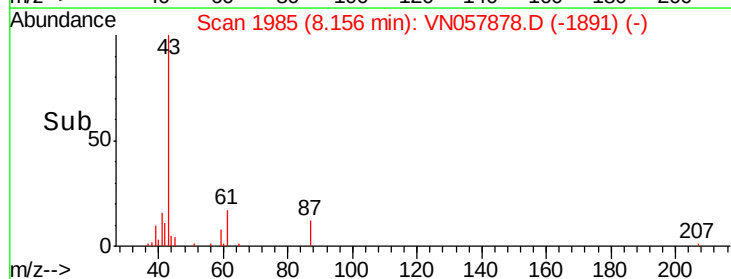
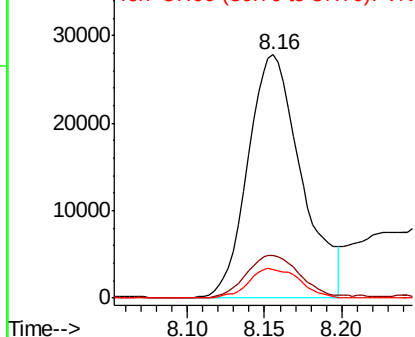


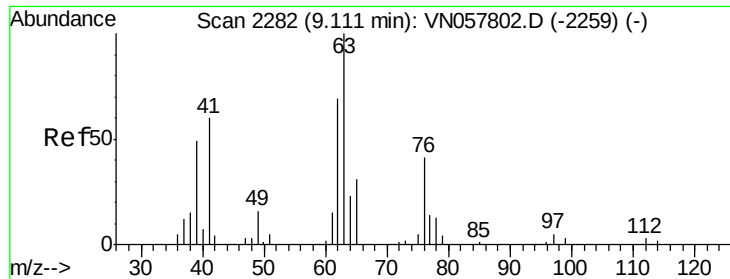
#43
Isopropyl Acetate
Concen: 6.750 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

Tgt Ion: 43 Resp: 67153
Ion Ratio Lower Upper
43 100
61 17.7 20.1 30.1#
87 11.6 9.5 14.3



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

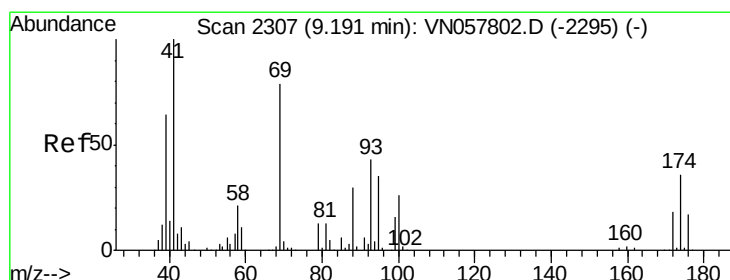
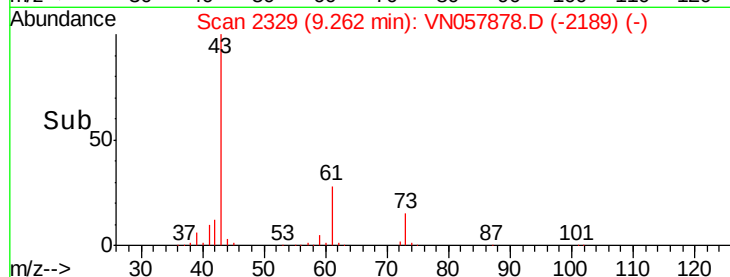
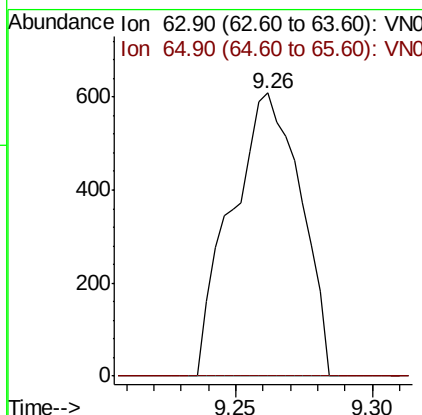
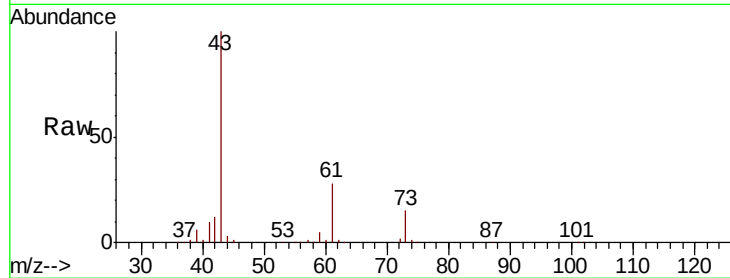




#45
 1,2-Dichloropropane
 Concen: 0.214 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

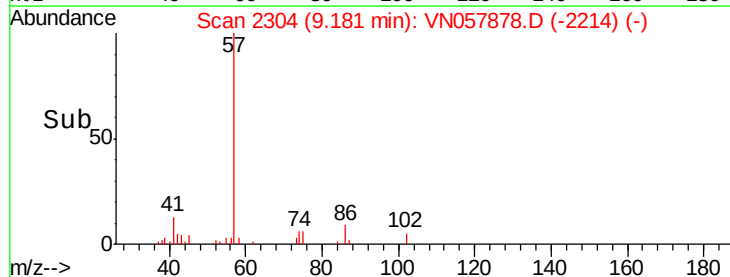
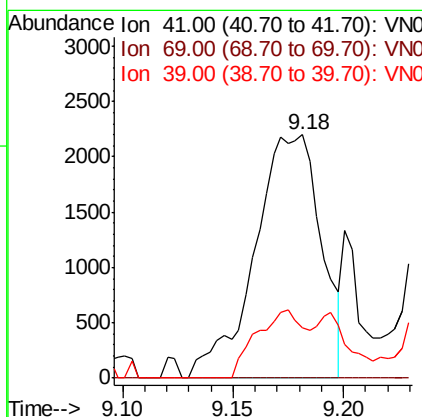
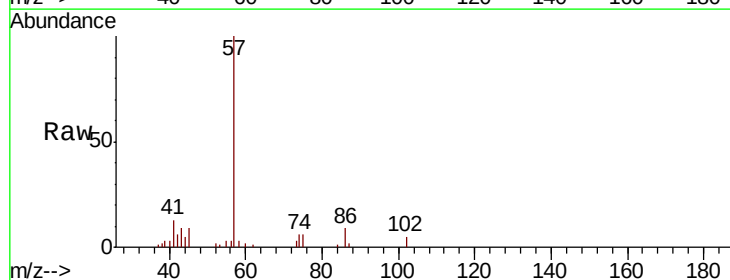
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D2-(4)

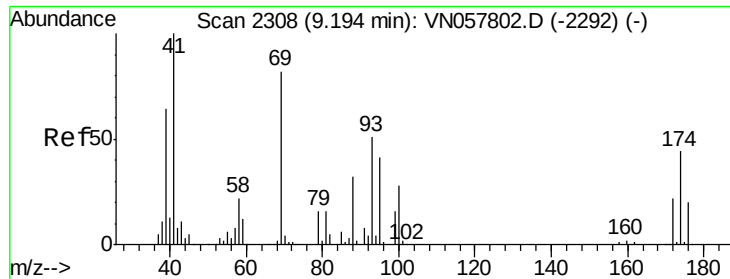
Tgt Ion: 63 Resp: 1072
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 0.911 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.01 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

Tgt Ion: 41 Resp: 4598
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#49

1,4-Dioxane

Concen: 0.398 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN057878.D

Acq: 10 Sep 2019 21:05

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D2-(4)

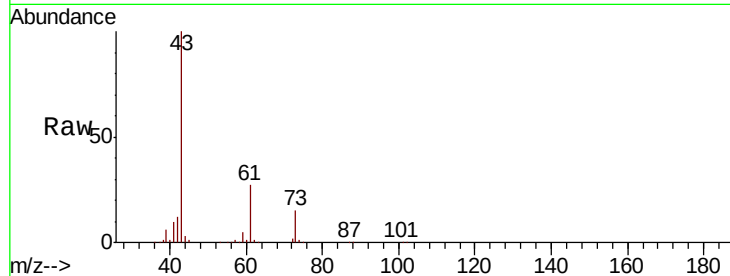
Tgt Ion: 88 Resp: 34

Ion Ratio Lower Upper

88 100

43 2814085.3 28.5 42.7#

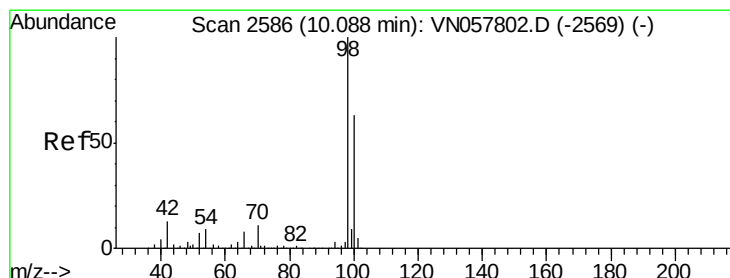
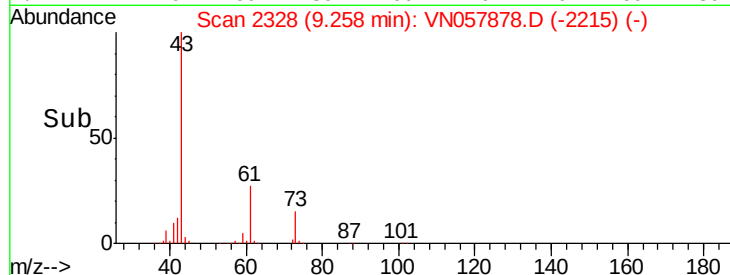
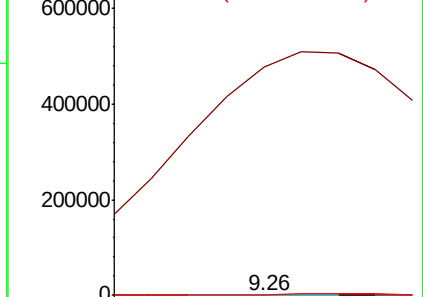
58 13444.1 55.8 83.6#



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: 49.123 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057878.D

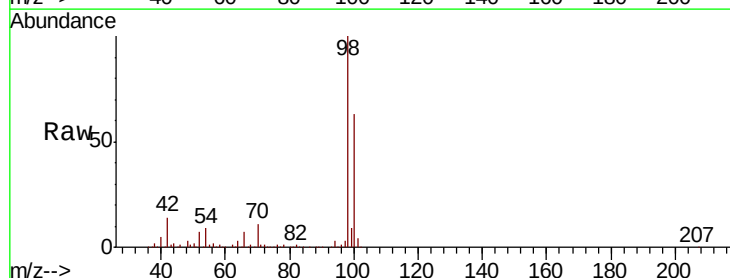
Acq: 10 Sep 2019 21:05

Tgt Ion: 98 Resp: 869128

Ion Ratio Lower Upper

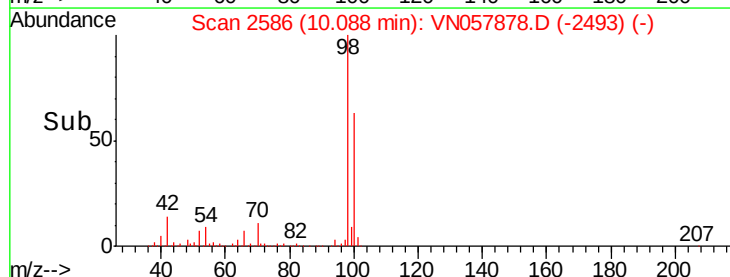
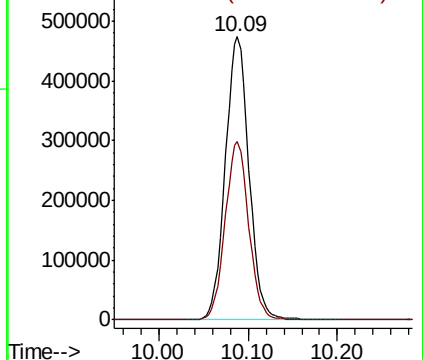
98 100

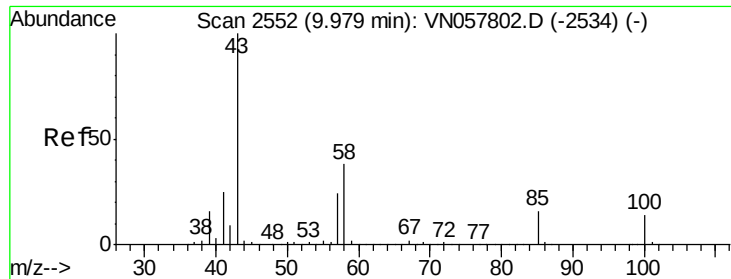
100 62.9 50.3 75.5



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: 0.978 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057878.D

Acq: 10 Sep 2019 21:05

Instrument :

MSVOA_N

ClientSampleId :

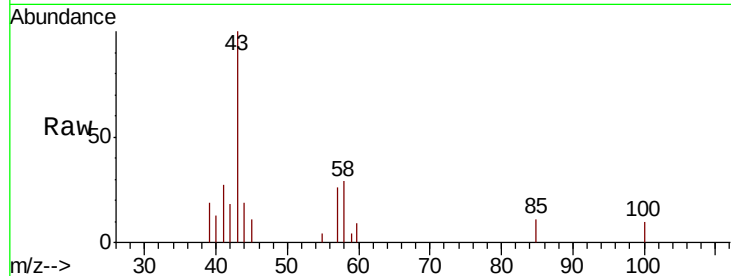
PAR-11-D2-(4)

Tgt Ion: 43 Resp: 5760

Ion Ratio Lower Upper

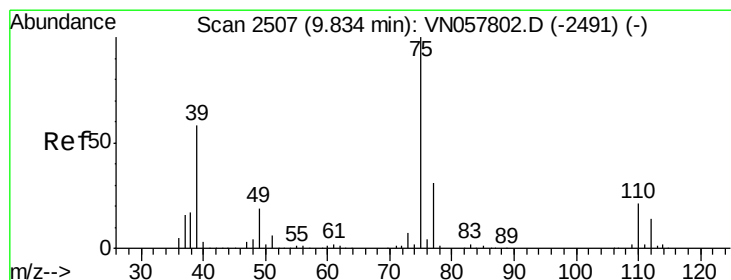
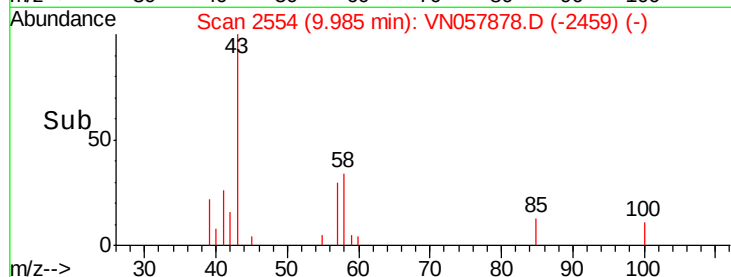
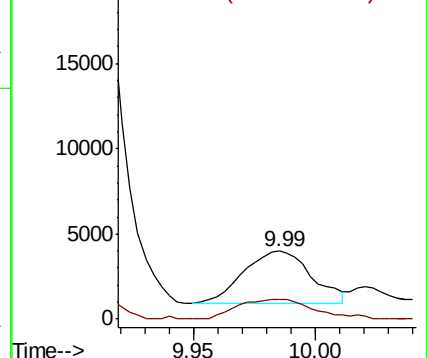
43 100

58 43.6 29.8 44.6



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: 4.812 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057878.D

Acq: 10 Sep 2019 21:05

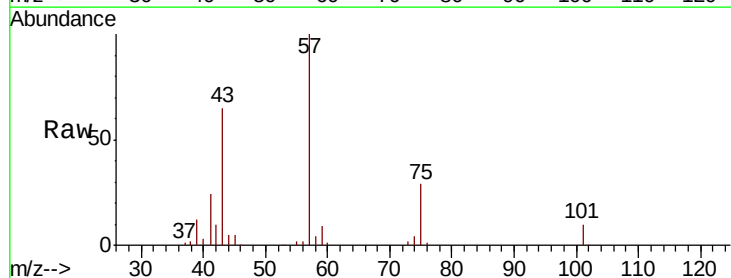
Tgt Ion: 75 Resp: 33868

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

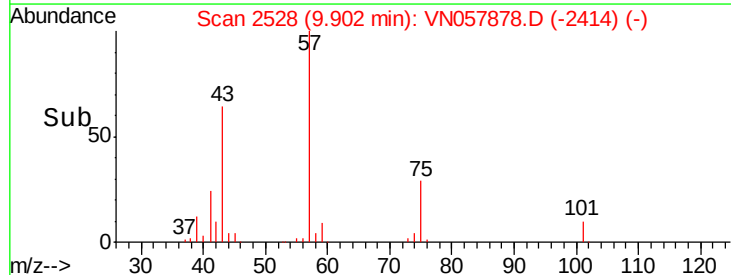
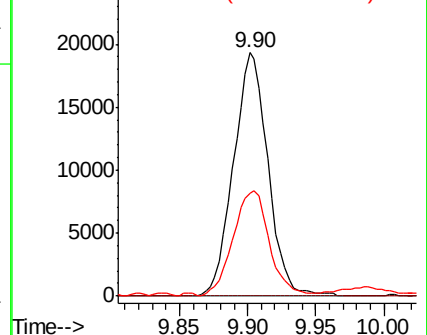
39 41.2 46.2 69.4#

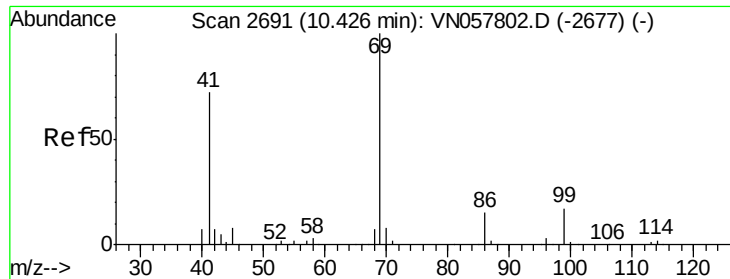


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.229 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057878.D

Acq: 10 Sep 2019 21:05

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D2-(4)

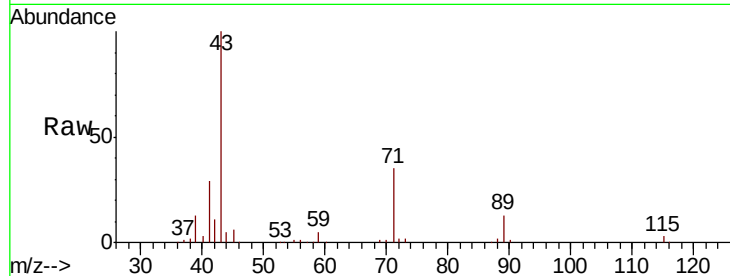
Tgt Ion: 69 Resp: 1585

Ion Ratio Lower Upper

69 100

41 5379.6 56.7 85.1#

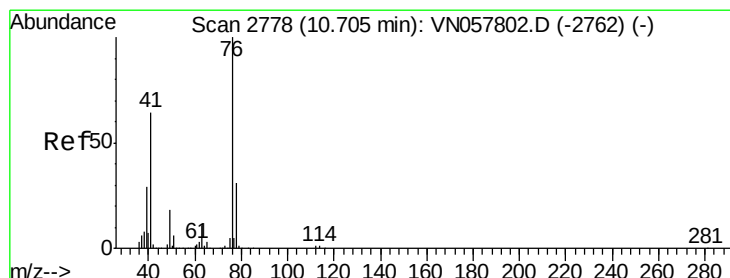
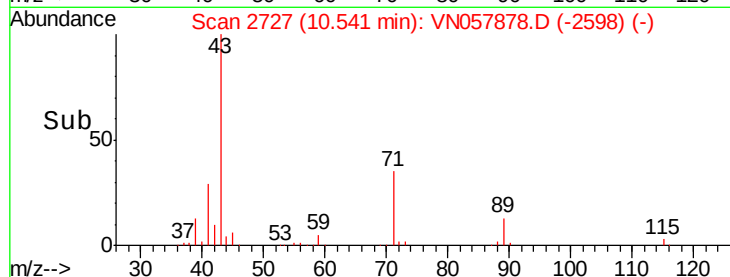
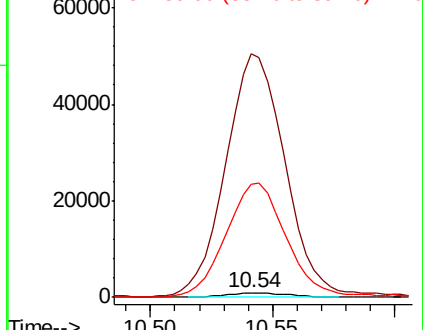
39 2580.4 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.570 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057878.D

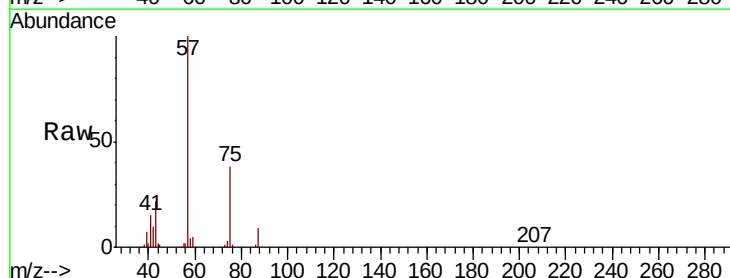
Acq: 10 Sep 2019 21:05

Tgt Ion: 76 Resp: 4515

Ion Ratio Lower Upper

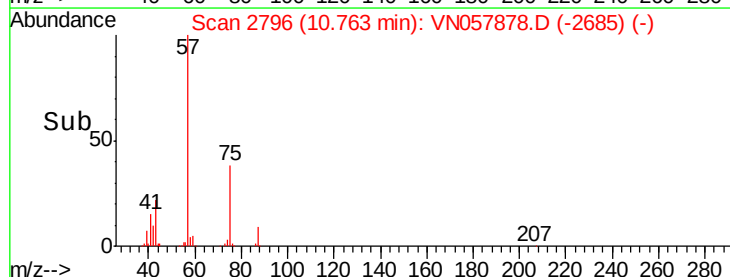
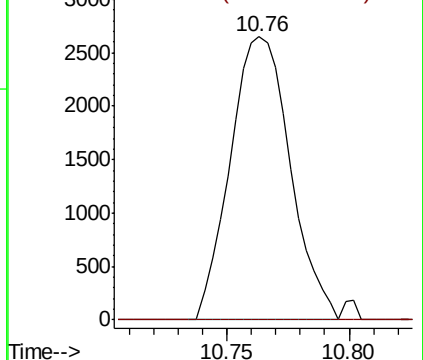
76 100

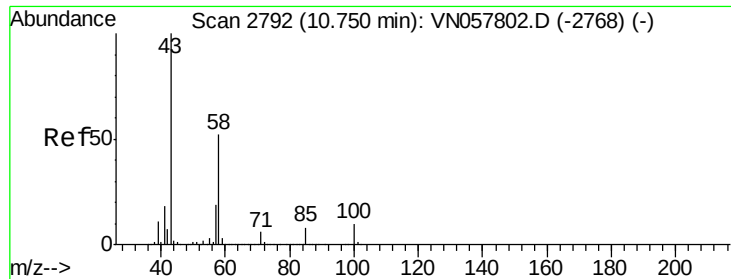
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

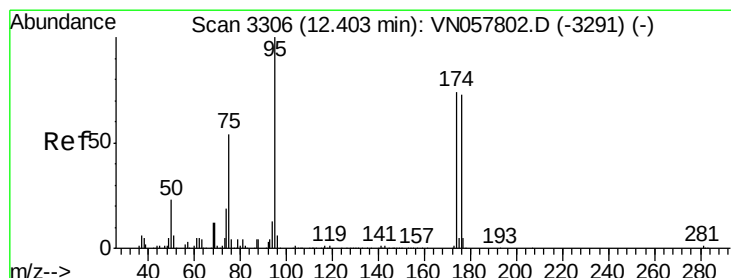
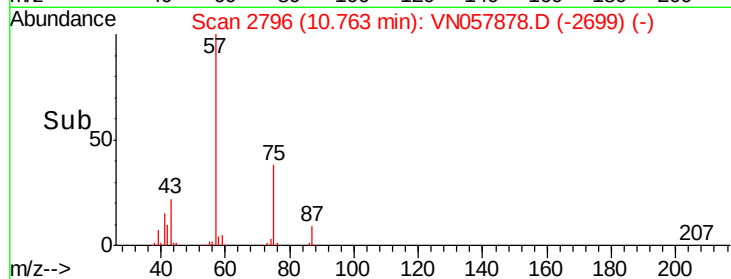
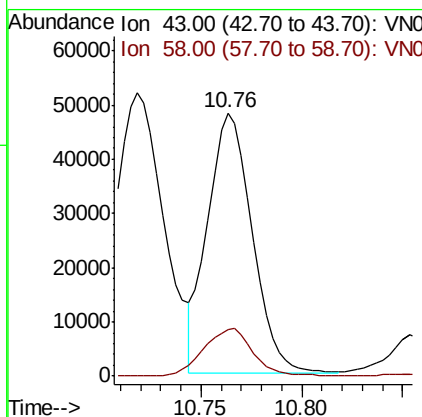
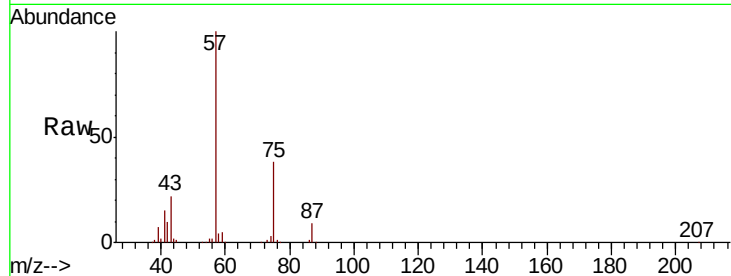




#59
2-Hexanone
Concen: 16.663 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

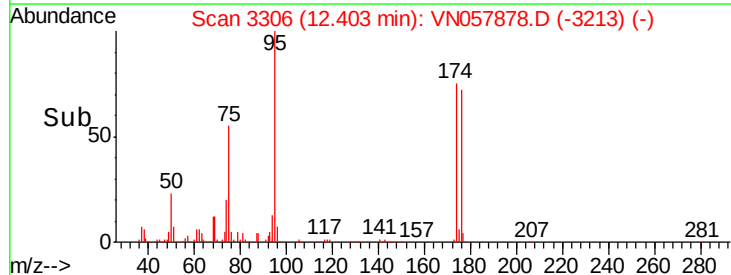
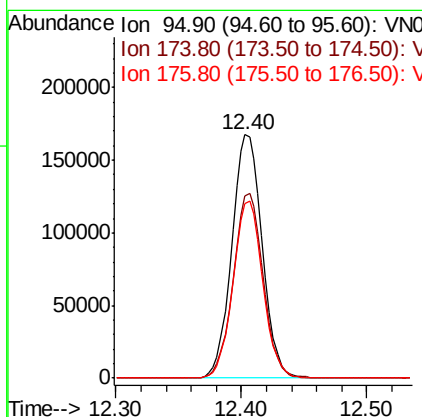
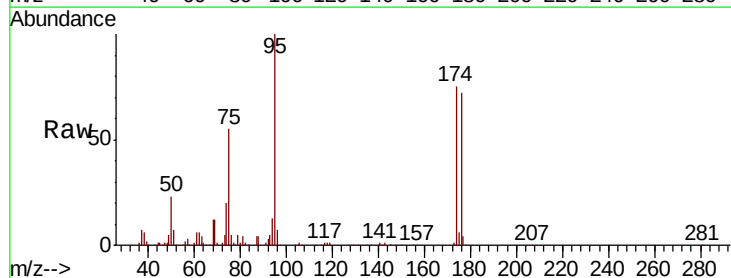
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D2-(4)

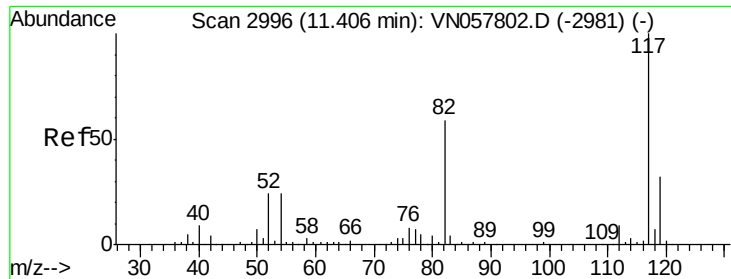
Tgt Ion: 43 Resp: 73532
Ion Ratio Lower Upper
43 100
58 20.2 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 41.691 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

Tgt Ion: 95 Resp: 281104
Ion Ratio Lower Upper
95 100
174 74.9 0.0 150.2
176 71.4 0.0 146.0

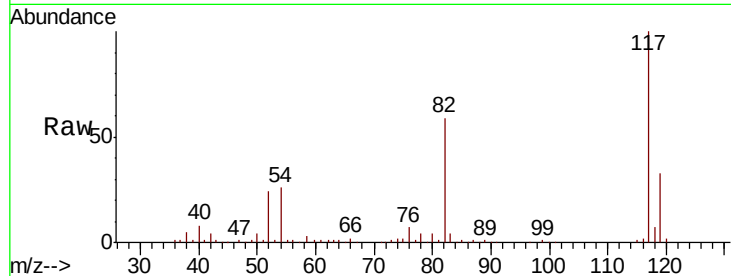




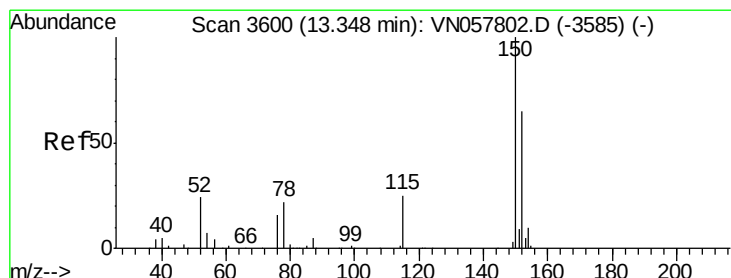
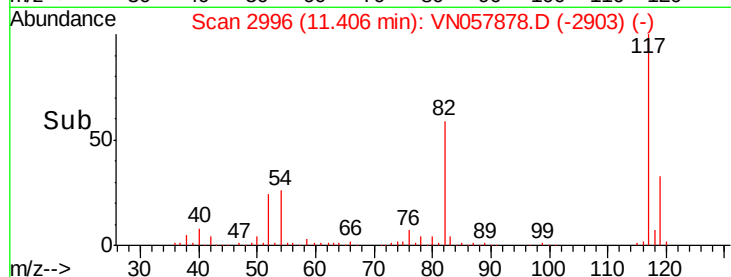
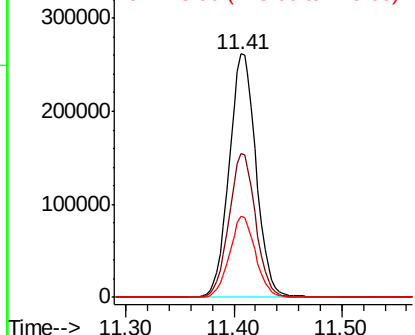
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D2-(4)

Tgt Ion:117 Resp: 455635
Ion Ratio Lower Upper
117 100
82 59.1 47.2 70.8
119 33.3 25.3 37.9

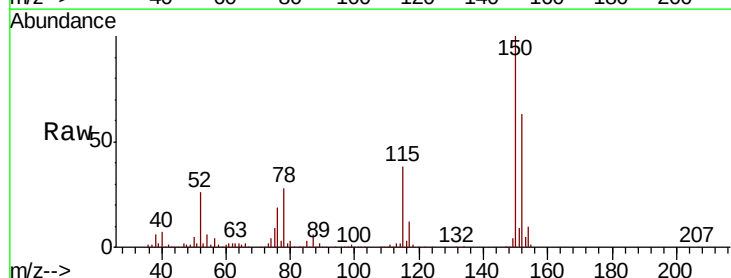


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

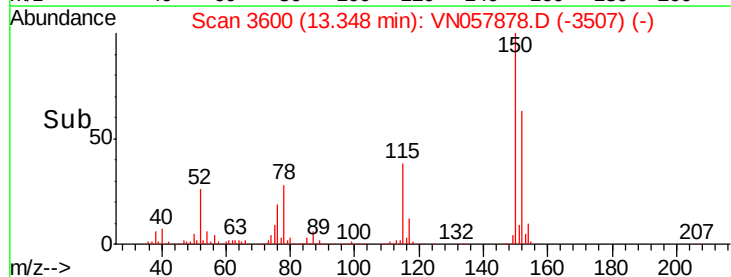
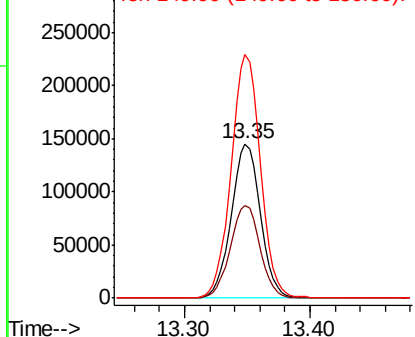


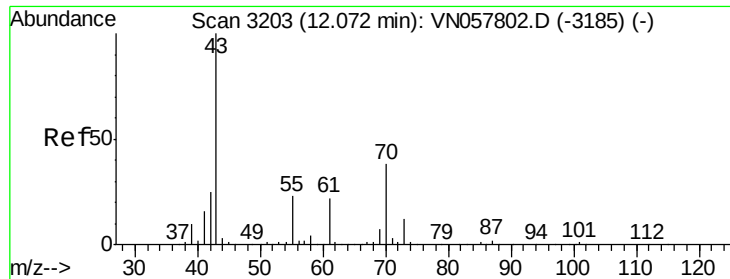
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057878.D
Acq: 10 Sep 2019 21:05

Tgt Ion:152 Resp: 234187
Ion Ratio Lower Upper
152 100
115 61.4 30.3 91.0
150 158.9 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.372 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN057878.D

Acq: 10 Sep 2019 21:05

Instrument :

MSVOA_N

ClientSampled :

PAR-11-D2-(4)

Tgt Ion: 43 Resp: 2940

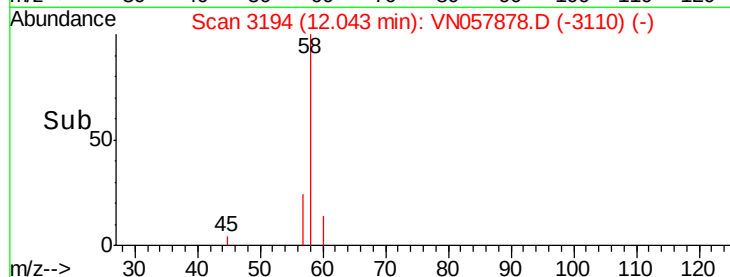
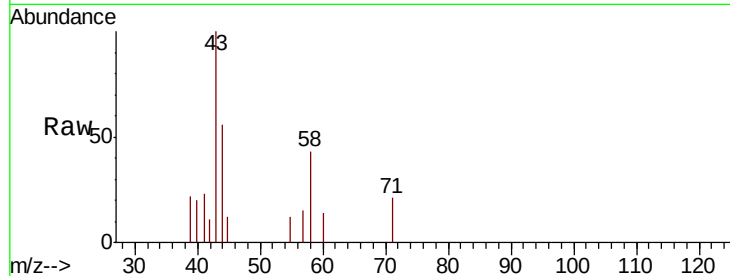
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 3.6 18.6 27.8#

61 0.0 17.4 26.2#

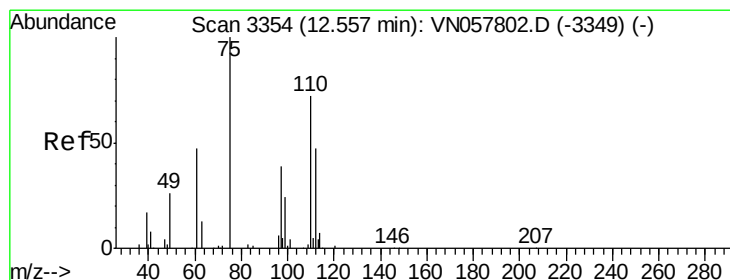
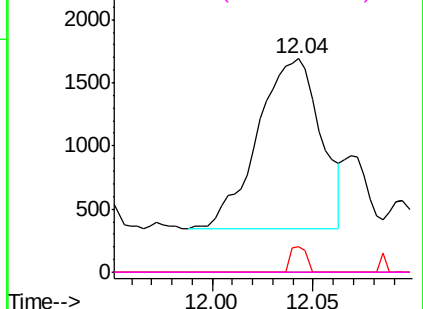


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#76

1,2,3-Trichloropropane

Concen: 28.896 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057878.D

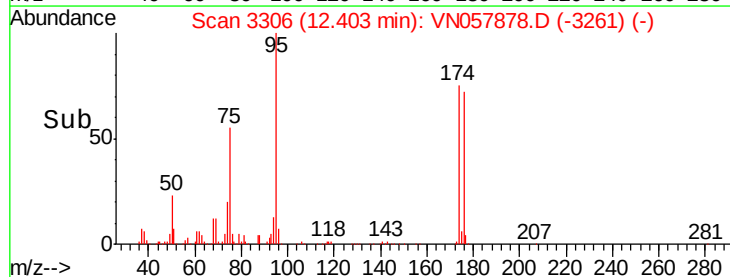
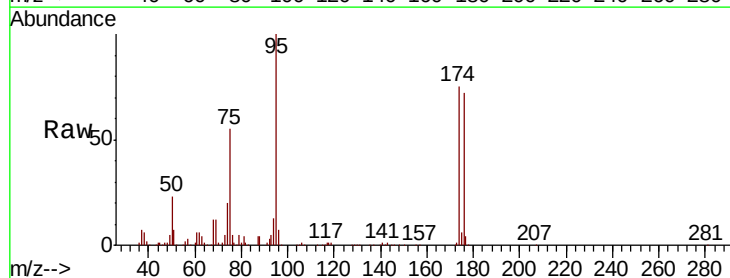
Acq: 10 Sep 2019 21:05

Tgt Ion: 75 Resp: 153084

Ion Ratio Lower Upper

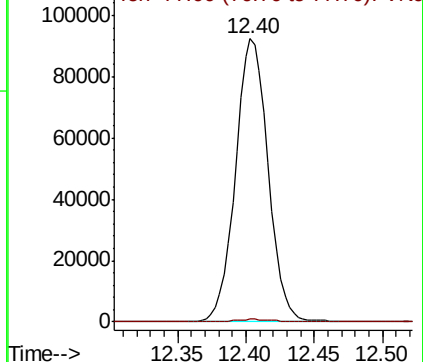
75 100

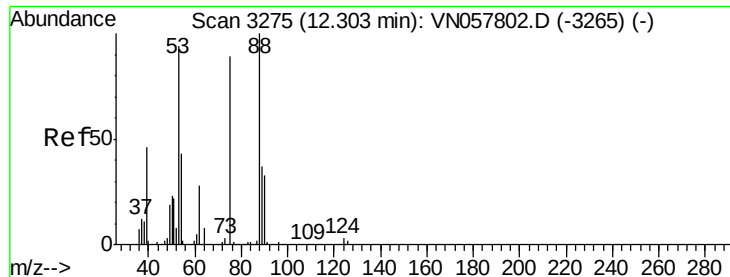
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

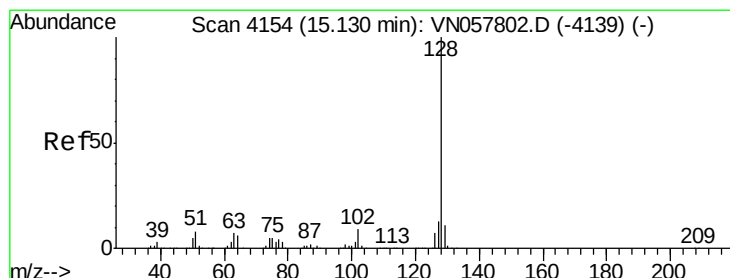
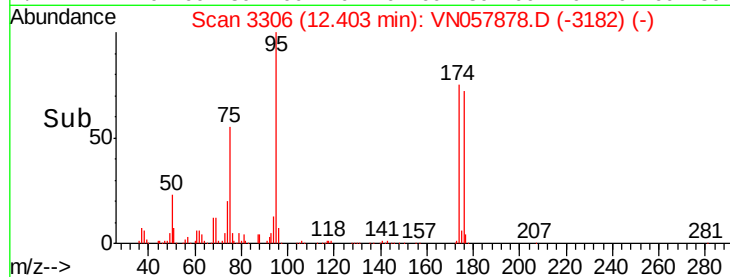
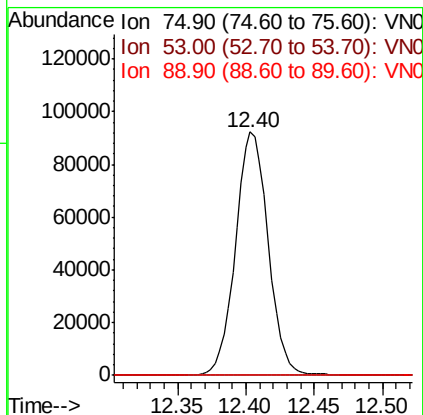
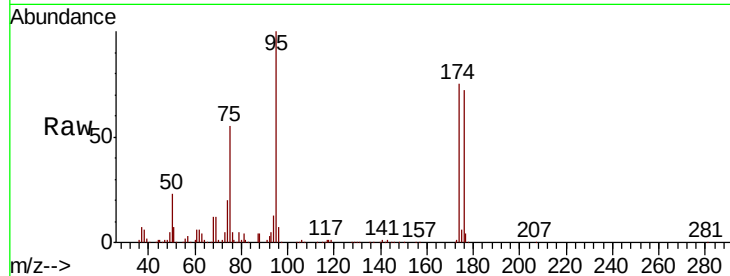




#81
 trans-1,4-Dichloro-2-butene
 Concen: 101.686 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D2-(4)

Tgt Ion: 75 Resp: 153084
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN057878.D
 Acq: 10 Sep 2019 21:05

Tgt Ion: 128 Resp: 521
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.6 12.8#

