

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057727.D
 Acq On : 6 Sep 2019 20:49
 Operator : JC/SP
 Sample : K4580-26
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B3-(0)

Quant Time: Sep 06 23:27:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 03:46:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	196625	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	331098	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	302352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	152008	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	253588	53.02	ug/l	0.00
Spiked Amount						
			Recovery	=	106.04%	
35) Dibromofluoromethane	7.57	113	147963	49.06	ug/l	0.00
Spiked Amount						
			Recovery	=	98.12%	
50) Toluene-d8	10.09	98	568240	50.94	ug/l	0.00
Spiked Amount						
			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	12.40	95	213229	46.02	ug/l	0.00
Spiked Amount						
			Recovery	=	92.04%	

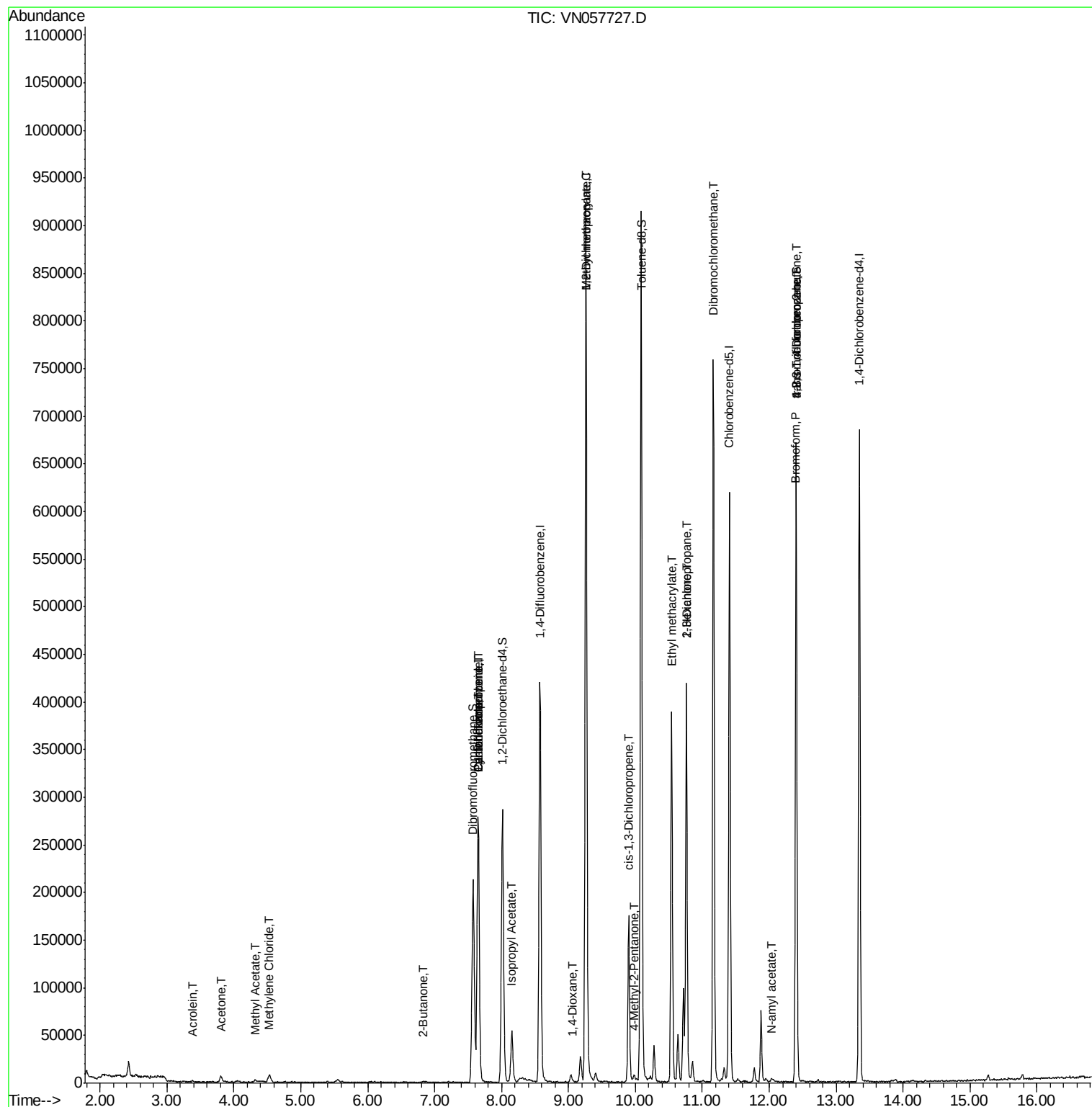
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1471	Below Cal	#	65
13) Acrolein	3.37	56	61	0.236	ug/l #	15
16) Acetone	3.80	43	10112	6.870	ug/l	92
18) Methyl Acetate	4.30	43	1537	0.384	ug/l #	80
20) Methylene Chloride	4.53	84	3377	1.061	ug/l #	81
25) 2-Butanone	6.83	43	1962	0.931	ug/l #	55
31) Cyclohexane	7.65	56	7146	1.331	ug/l #	44
36) 1,1-Dichloropropene	7.65	75	19579	4.445	ug/l #	49
38) Carbon Tetrachloride	7.65	117	22643	5.369	ug/l #	15
43) Isopropyl Acetate	8.16	43	65413	7.793	ug/l	100
45) 1,2-Dichloropropane	9.26	63	742	0.213	ug/l #	44
48) Methyl methacrylate	9.26	41	97194	22.516	ug/l #	55
49) 1,4-Dioxane	9.07	88	61	1.214	ug/l #	19
51) 4-Methyl-2-Pentanone	9.98	43	4629	0.993	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	25909	5.032	ug/l #	66
56) Ethyl methacrylate	10.54	69	1559	0.321	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3775	0.692	ug/l #	43
59) 2-Hexanone	10.76	43	70496	21.447	ug/l #	58
60) Dibromochloromethane	11.17	129	108	1.885	ug/l #	11
71) Bromoform	12.39	173	150	3.310	ug/l #	1
74) N-amyl acetate	12.03	43	2987	0.445	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	127797	36.611	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	127797	113.861	ug/l #	1

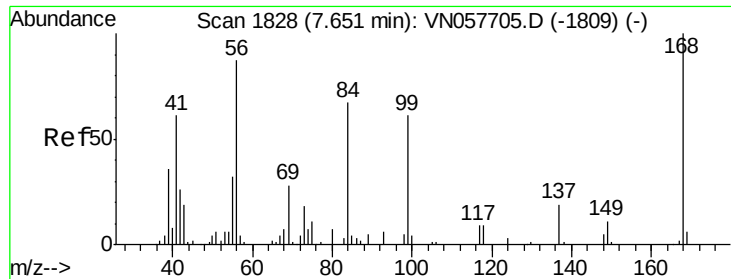
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 06 03:46:54 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057727.D

Acq: 6 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

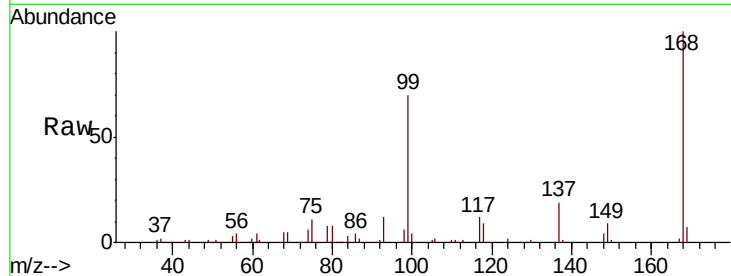
T12-B3-(0)

Tgt Ion:168 Resp: 196625

Ion Ratio Lower Upper

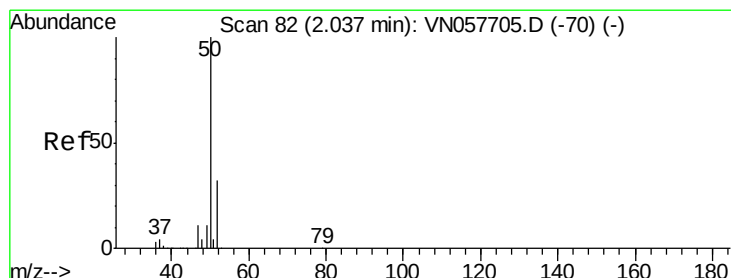
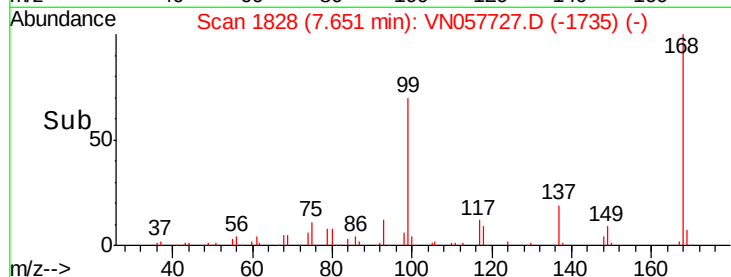
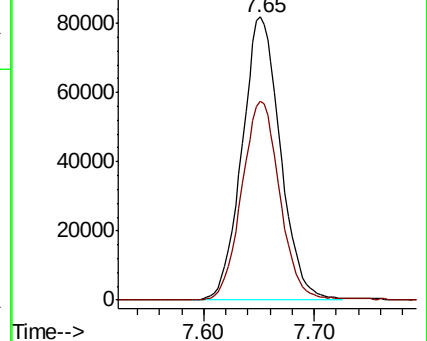
168 100

99 70.3 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN057727.D

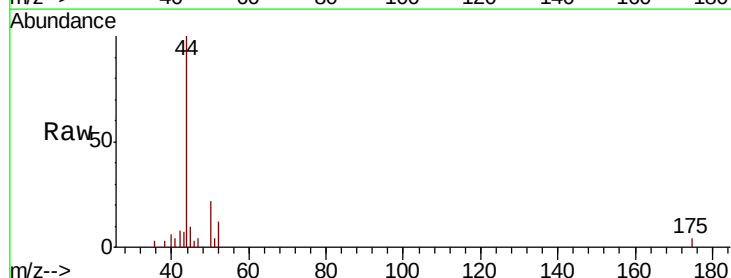
Acq: 6 Sep 2019 20:49

Tgt Ion: 50 Resp: 1471

Ion Ratio Lower Upper

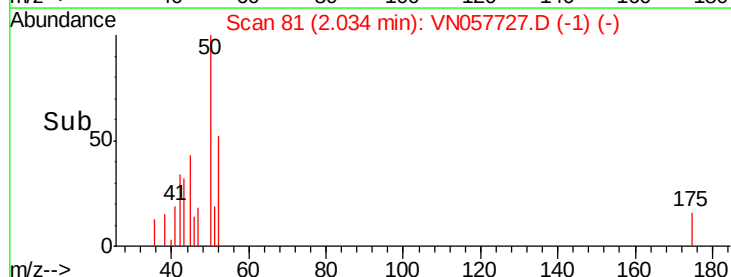
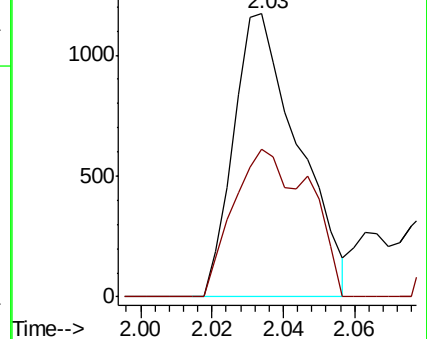
50 100

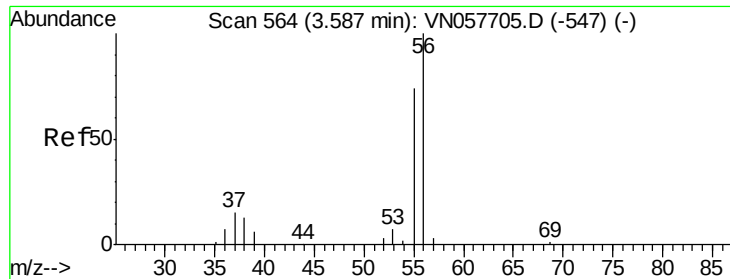
52 52.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#13

Acrolein

Concen: 0.236 ug/l

RT: 3.37 min Scan# 497

Delta R.T. -0.22 min

Lab File: VN057727.D

Acq: 6 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

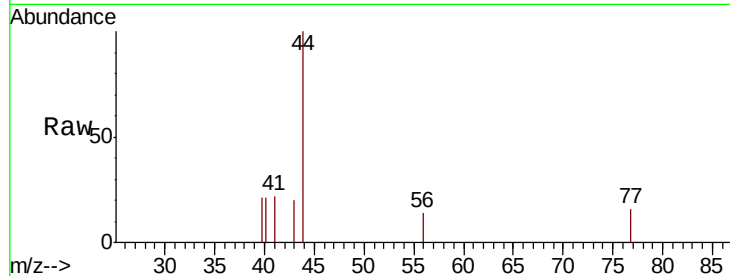
T12-B3-(0)

Tgt Ion: 56 Resp: 61

Ion Ratio Lower Upper

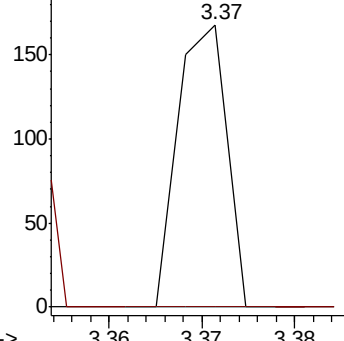
56 100

55 0.0 55.4 83.0#

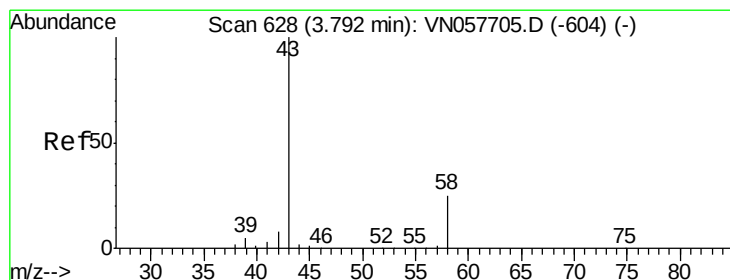
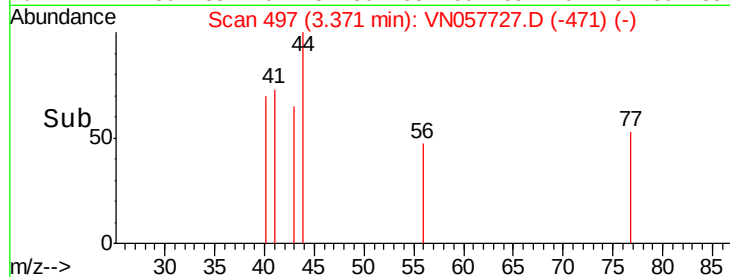


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 6.870 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057727.D

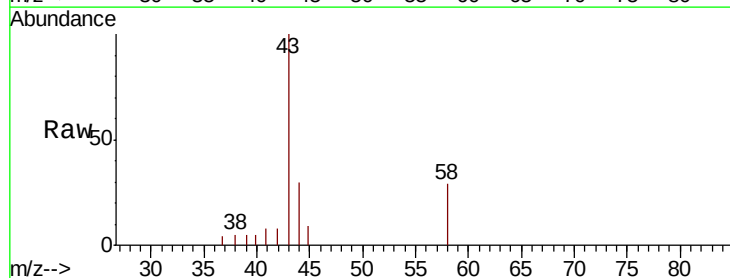
Acq: 6 Sep 2019 20:49

Tgt Ion: 43 Resp: 10112

Ion Ratio Lower Upper

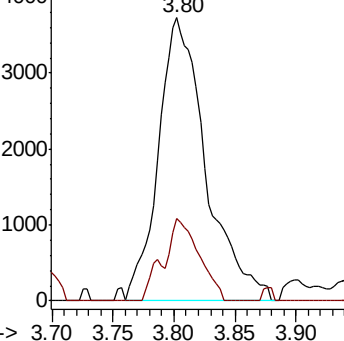
43 100

58 29.0 19.8 29.8

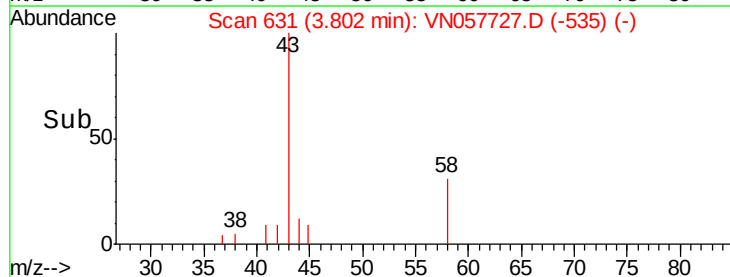


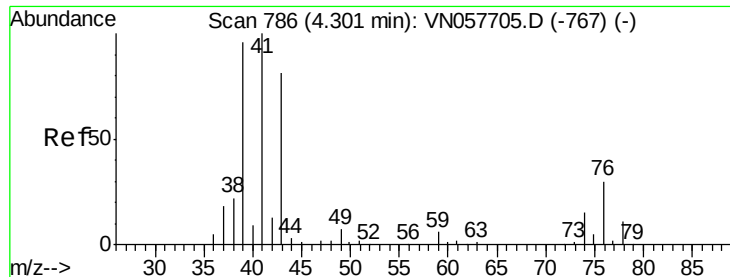
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

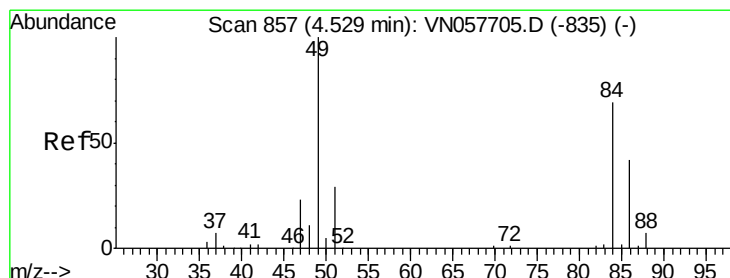
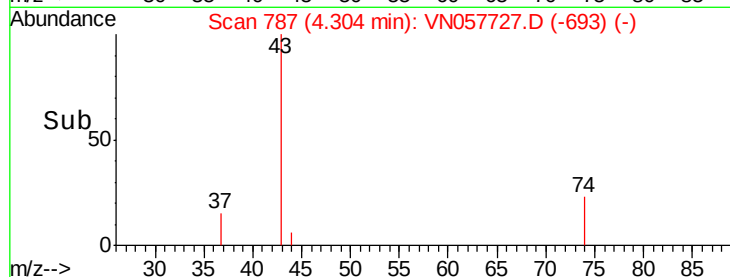
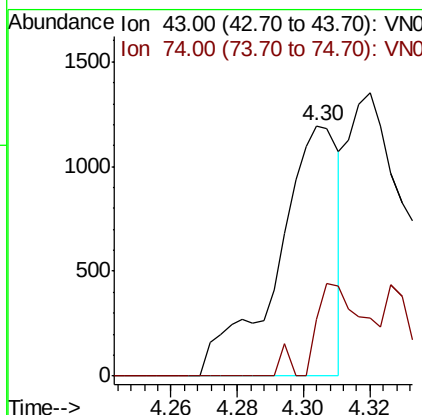
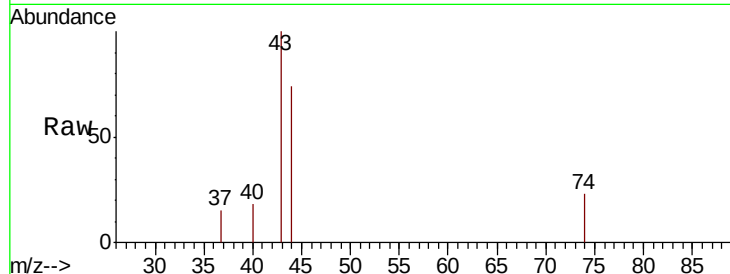




#18
Methyl Acetate
Concen: 0.384 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

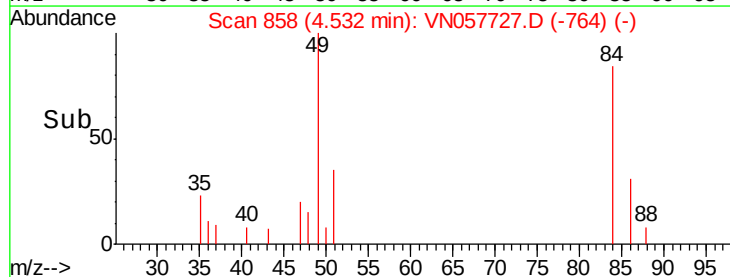
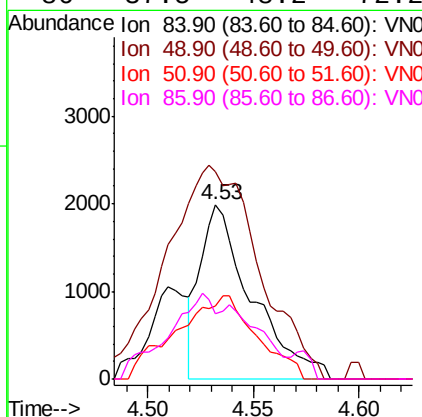
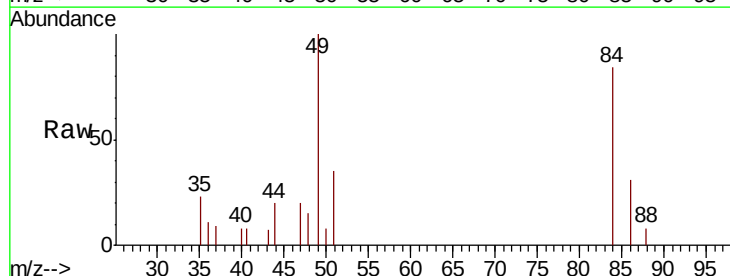
Instrument :
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T12-B3-(0)

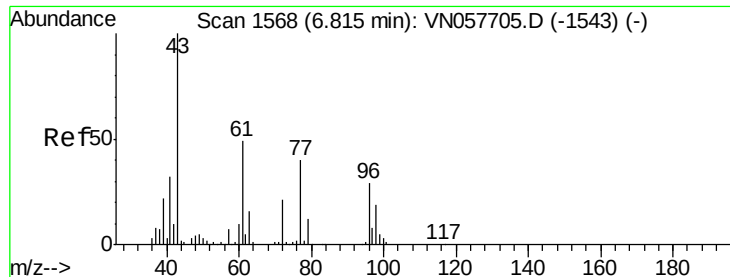
Tgt Ion: 43 Resp: 1537
Ion Ratio Lower Upper
43 100
74 28.3 15.3 22.9#



#20
Methylene Chloride
Concen: 1.061 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

Tgt Ion: 84 Resp: 3377
Ion Ratio Lower Upper
84 100
49 119.2 115.0 172.6
51 42.1 33.8 50.8
86 37.5 48.2 72.2#

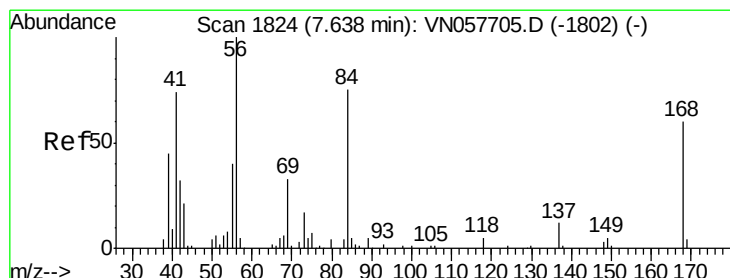
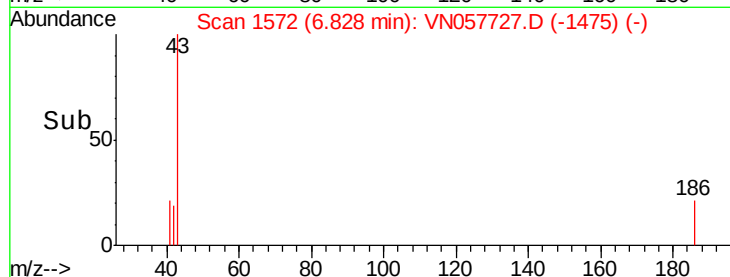
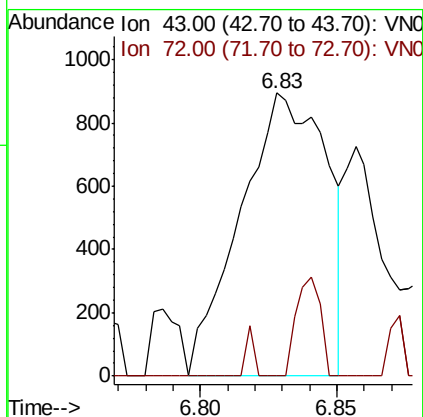
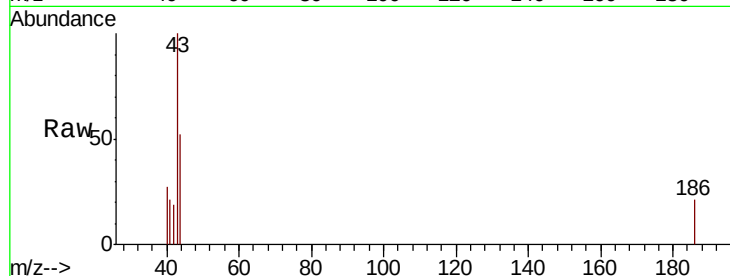




#25
2-Butanone
Concen: 0.931 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

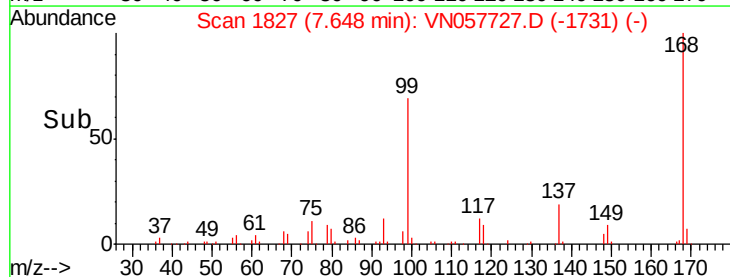
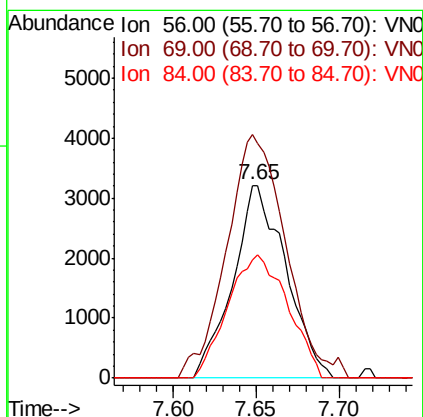
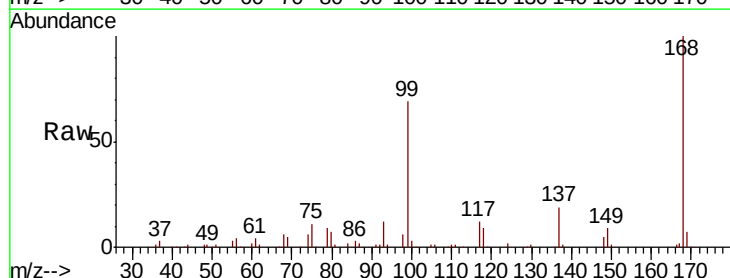
Instrument :
MSVOA_N
ClientSampled :
T12-B3-(0)

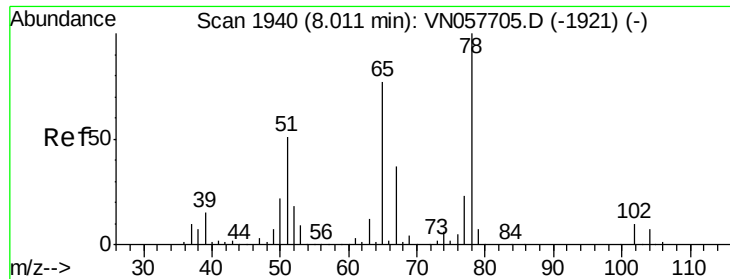
Tgt Ion: 43 Resp: 1962
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.6#



#31
Cyclohexane
Concen: 1.331 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

Tgt Ion: 56 Resp: 7146
Ion Ratio Lower Upper
56 100
69 115.9 26.2 39.2#
84 61.4 59.8 89.8

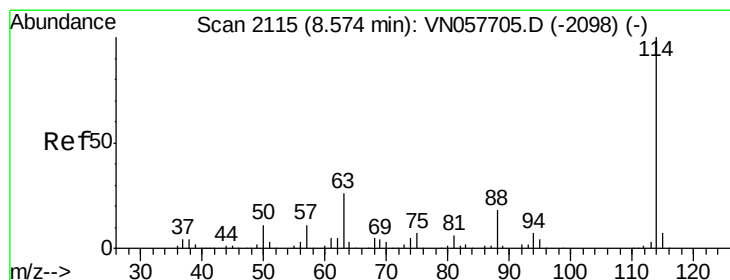
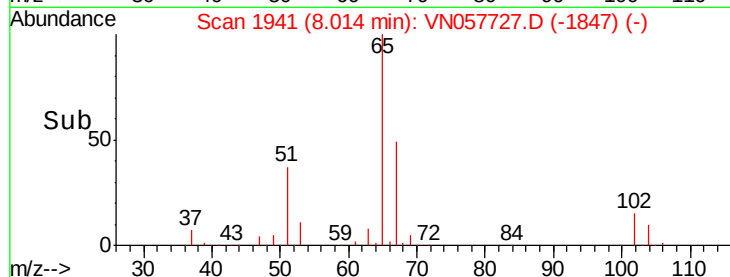
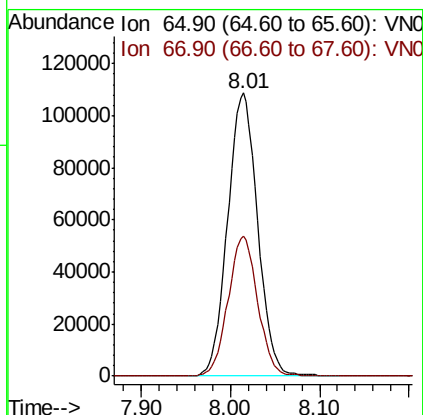
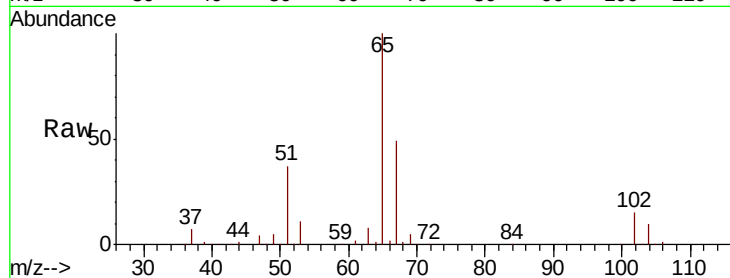




#33
 1,2-Dichloroethane-d4
 Concen: 53.015 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057727.D
 Acq: 6 Sep 2019 20:49

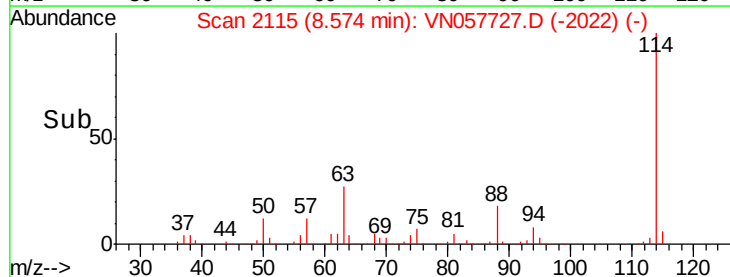
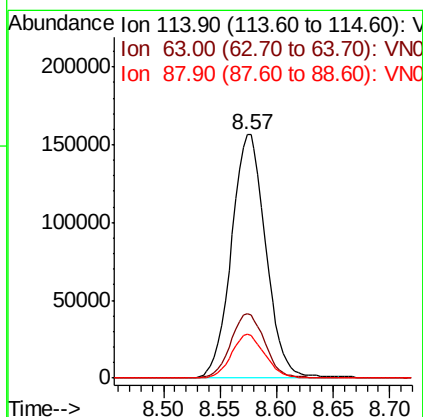
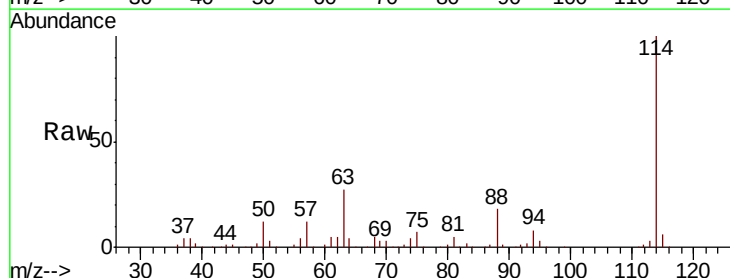
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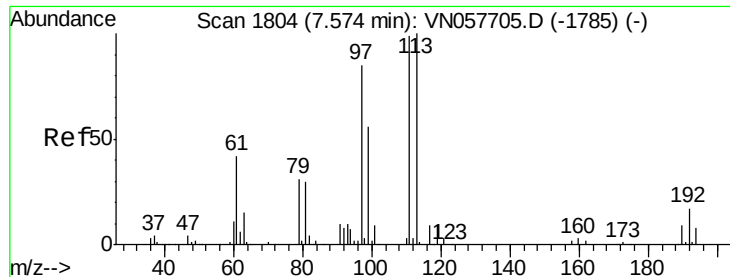
Tgt Ion: 65 Resp: 253588
 Ion Ratio Lower Upper
 65 100
 67 48.7 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057727.D
 Acq: 6 Sep 2019 20:49

Tgt Ion: 114 Resp: 331098
 Ion Ratio Lower Upper
 114 100
 63 26.7 0.0 52.4
 88 18.0 0.0 35.4

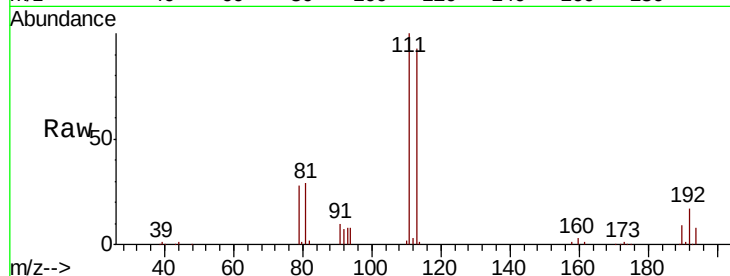




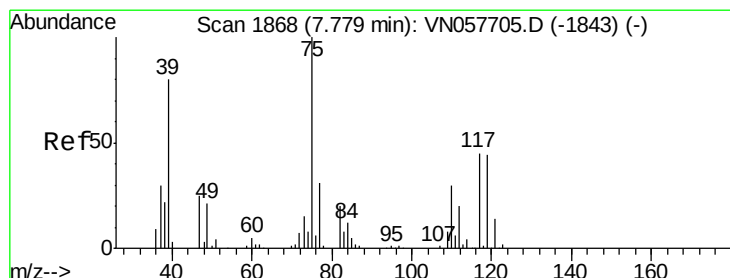
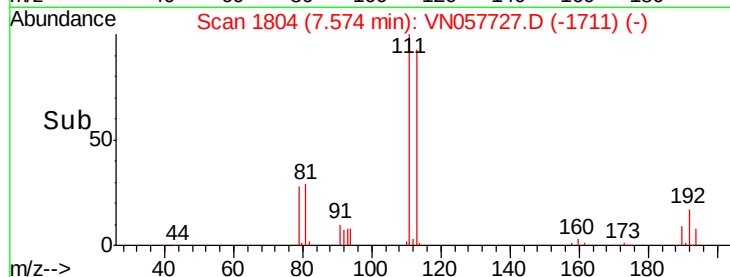
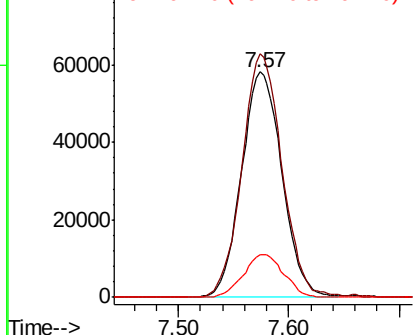
#35
 Dibromofluoromethane
 Concen: 49.063 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN057727.D
 Acq: 6 Sep 2019 20:49

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B3-(0)

Tgt Ion: 113 Resp: 147963
 Ion Ratio Lower Upper
 113 100
 111 106.5 82.7 124.1
 192 18.9 13.8 20.6

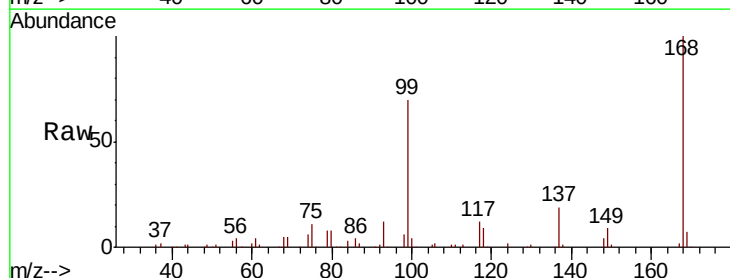


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

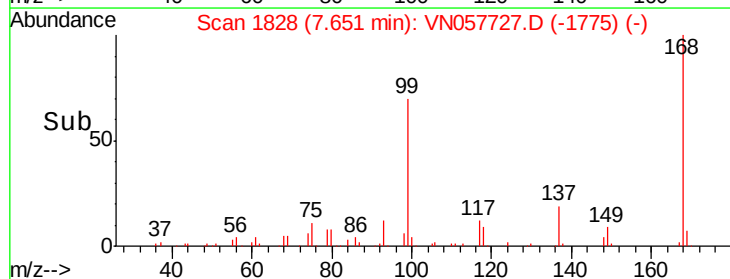
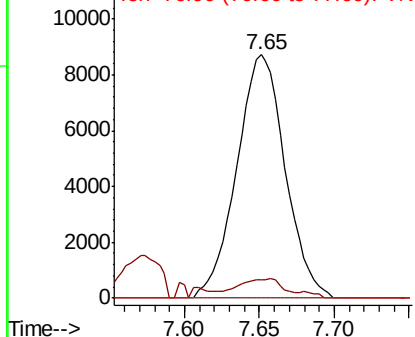


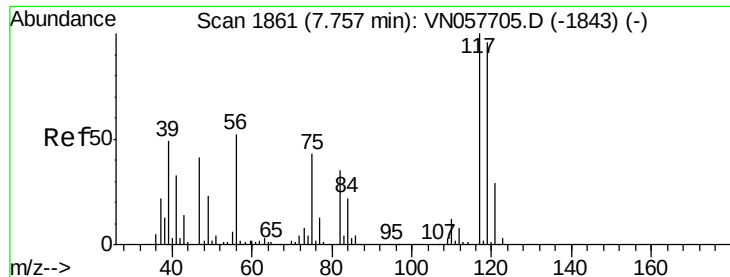
#36
 1,1-Dichloropropene
 Concen: 4.445 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057727.D
 Acq: 6 Sep 2019 20:49

Tgt Ion: 75 Resp: 19579
 Ion Ratio Lower Upper
 75 100
 110 4.7 15.0 45.0#
 77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.369 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN057727.D

Acq: 6 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampled :

T12-B3-(0)

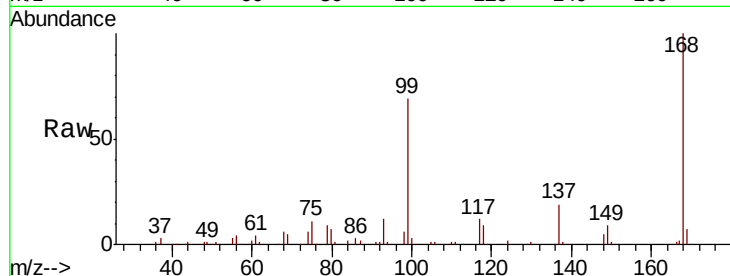
Tgt Ion: 117 Resp: 22643

Ion Ratio Lower Upper

117 100

119 3.2 76.1 114.1#

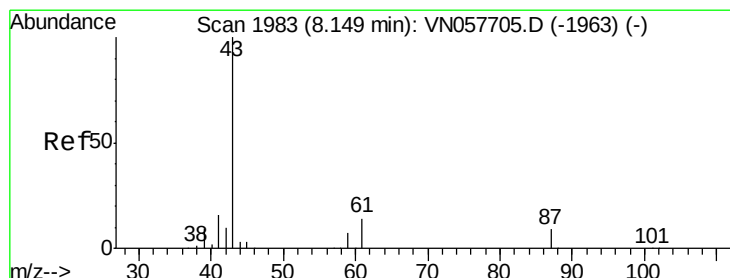
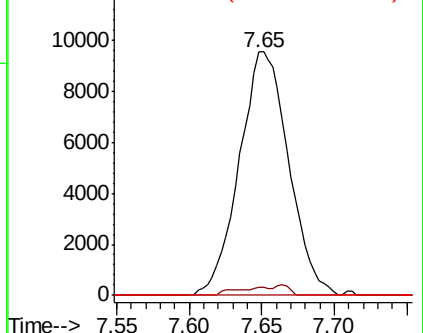
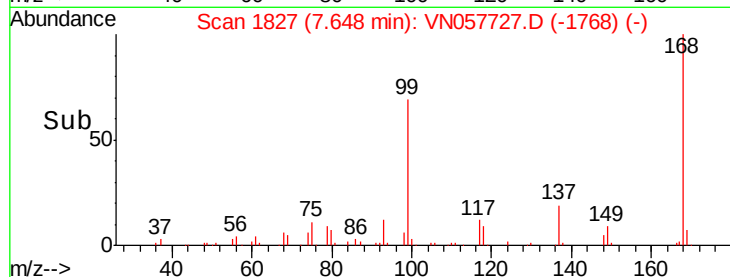
121 0.0 23.4 35.2#



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: 7.793 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057727.D

Acq: 6 Sep 2019 20:49

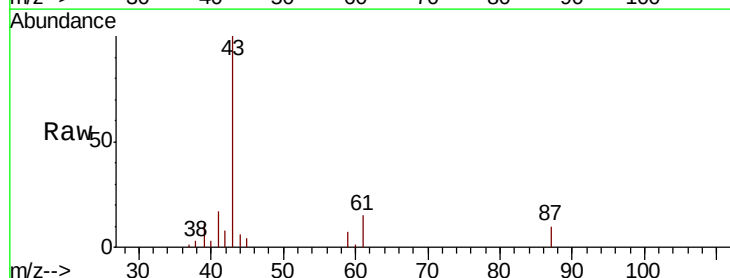
Tgt Ion: 43 Resp: 65413

Ion Ratio Lower Upper

43 100

61 15.9 12.8 19.2

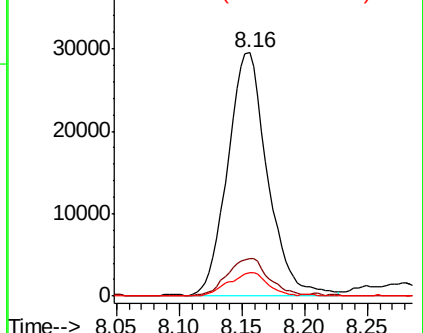
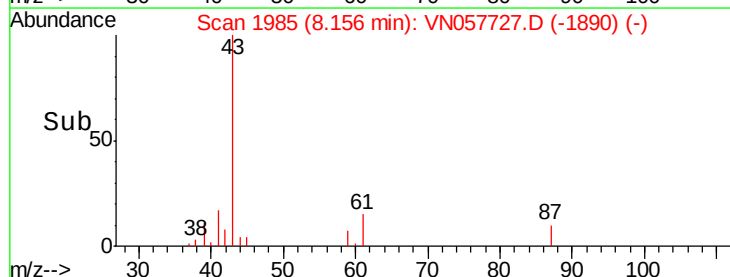
87 9.4 7.8 11.8

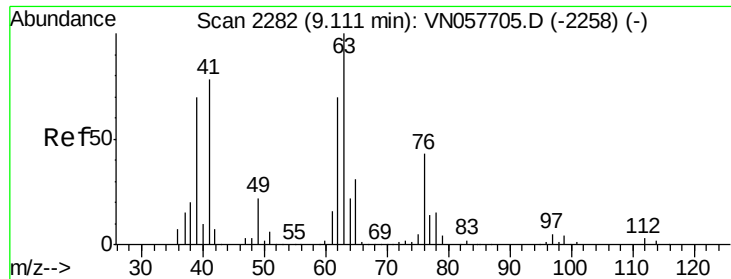


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

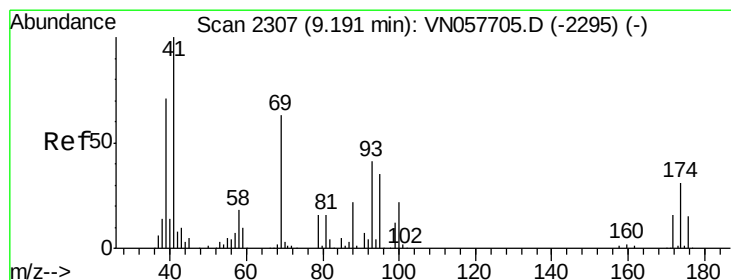
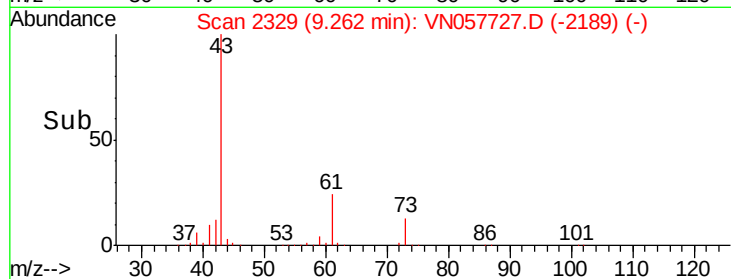
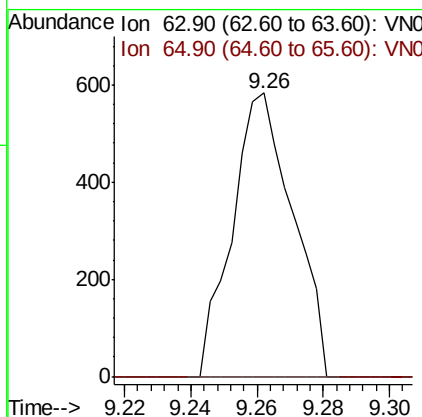
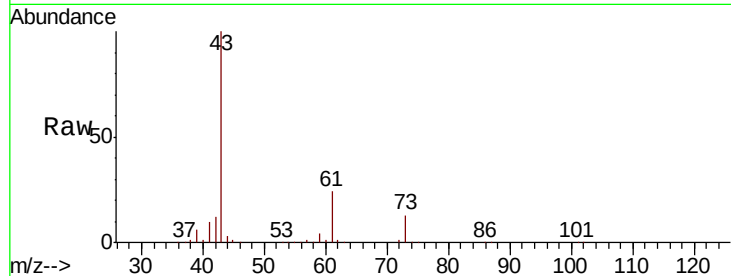




#45
 1,2-Dichloropropane
 Concen: 0.213 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN057727.D
 Acq: 6 Sep 2019 20:49

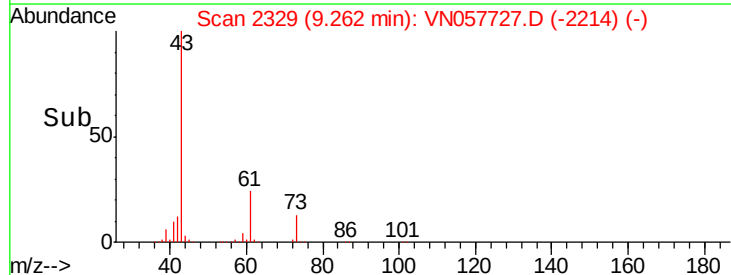
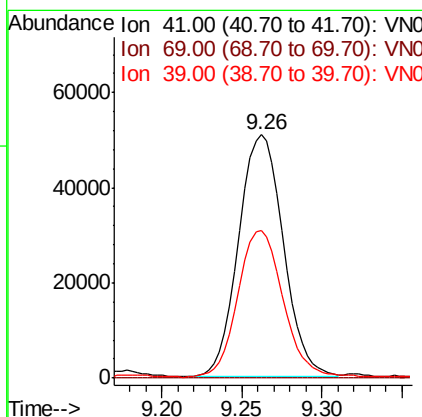
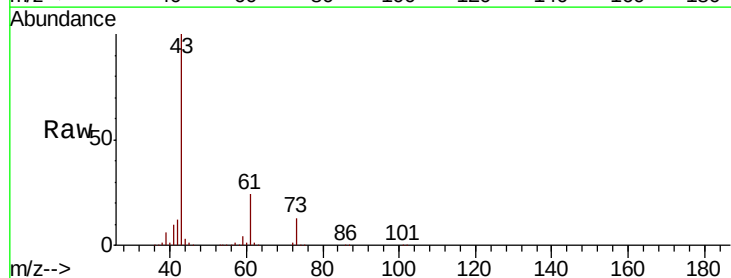
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B3-(0)

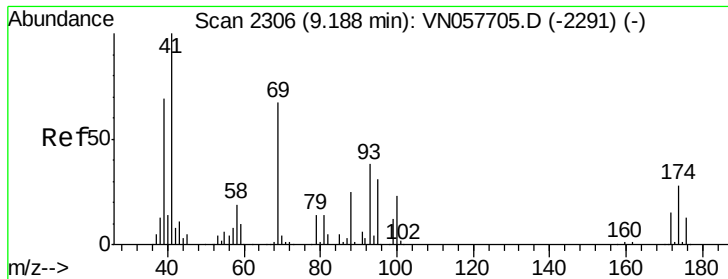
Tgt Ion: 63 Resp: 742
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.5 36.7#



#48
 Methyl methacrylate
 Concen: 22.516 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.07 min
 Lab File: VN057727.D
 Acq: 6 Sep 2019 20:49

Tgt Ion: 41 Resp: 97194
 Ion Ratio Lower Upper
 41 100
 69 0.0 51.2 76.8#
 39 61.6 57.3 85.9

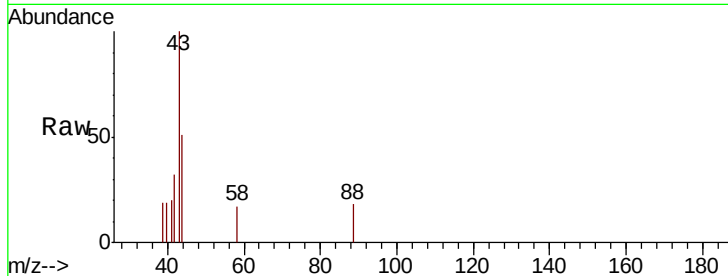




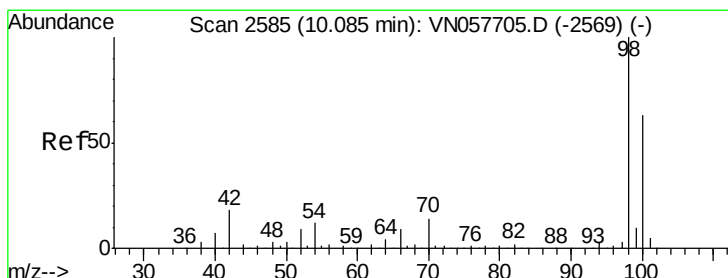
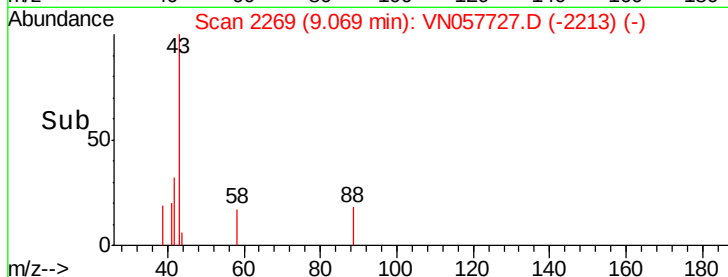
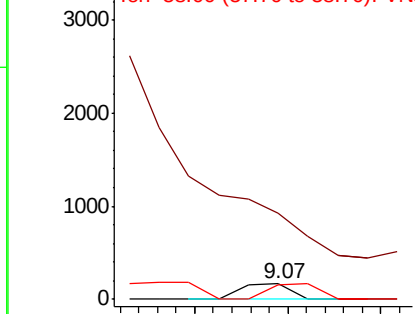
#49
1,4-Dioxane
Concen: 1.214 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.12 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

Instrument :
MSVOA_N
ClientSampleId :
T12-B3-(0)

Tgt Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 0.0 35.4 53.2#
58 0.0 61.5 92.3#

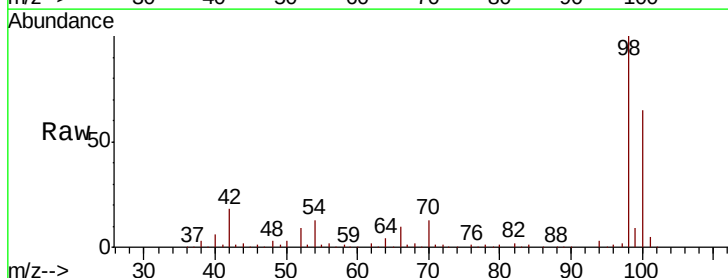


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

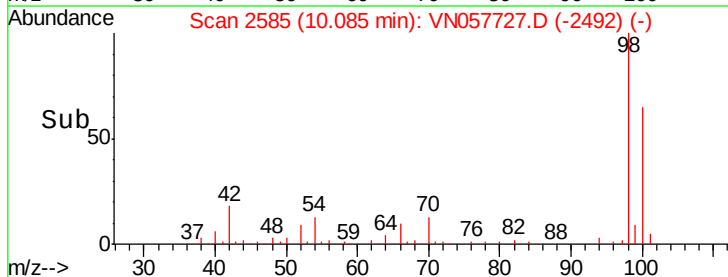
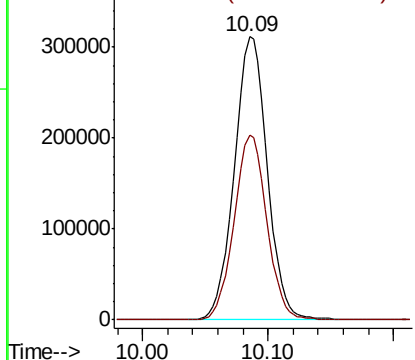


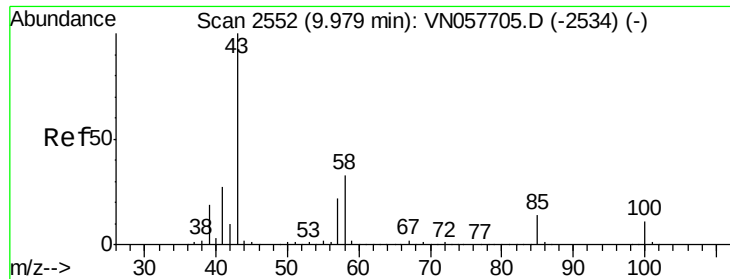
#50
Toluene-d8
Concen: 50.935 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

Tgt Ion: 98 Resp: 568240
Ion Ratio Lower Upper
98 100
100 65.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

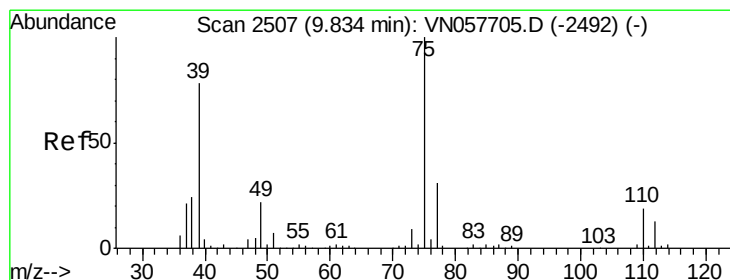
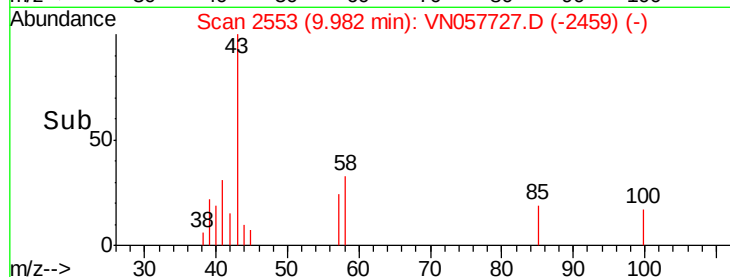
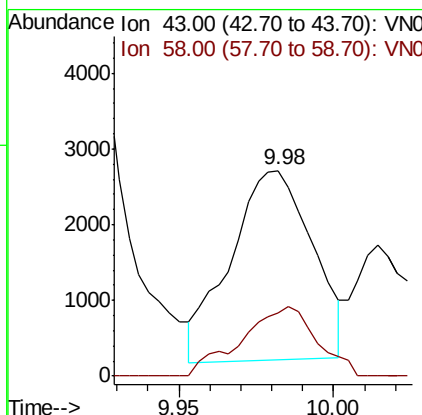
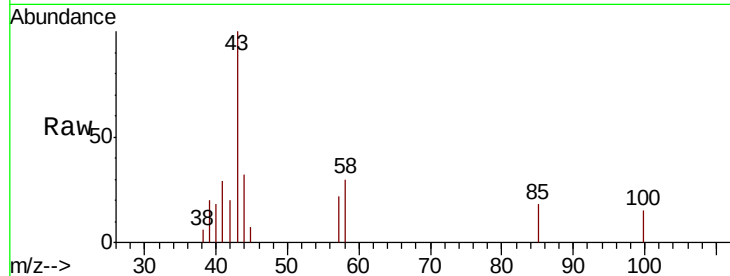




#51
 4-Methyl-2-Pentanone
 Concen: 0.993 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. 0.00 min
 Lab File: VN057727.D
 Acq: 6 Sep 2019 20:49

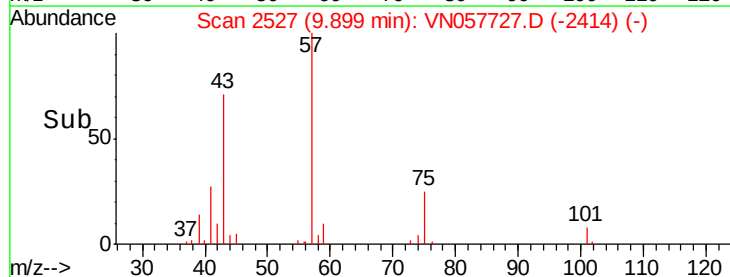
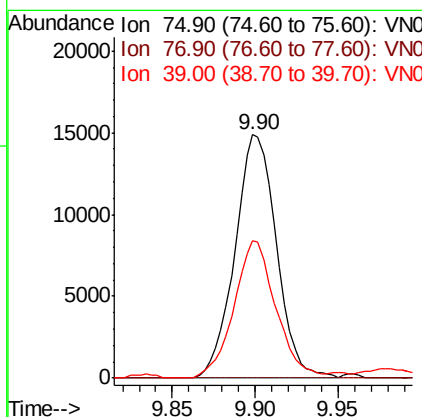
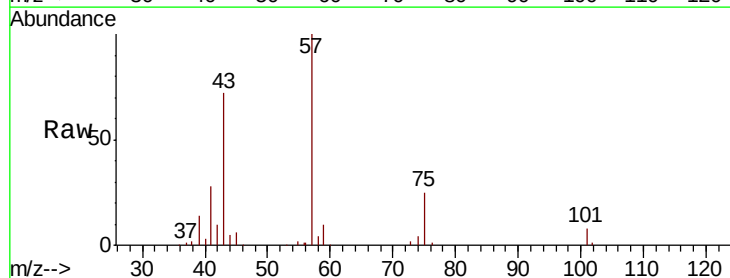
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-B3-(0)

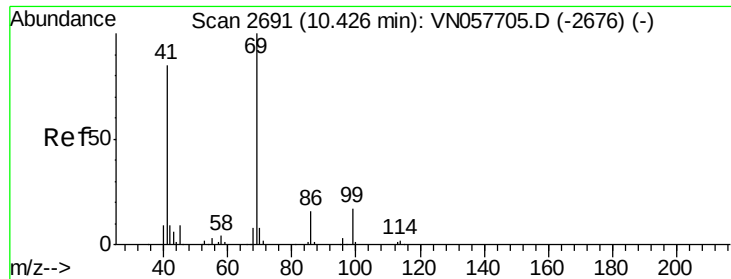
Tgt Ion: 43 Resp: 4629
 Ion Ratio Lower Upper
 43 100
 58 33.6 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.032 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN057727.D
 Acq: 6 Sep 2019 20:49

Tgt Ion: 75 Resp: 25909
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 56.5 62.4 93.6#





#56

Ethyl methacrylate

Concen: 0.321 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057727.D

Acq: 6 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

T12-B3-(0)

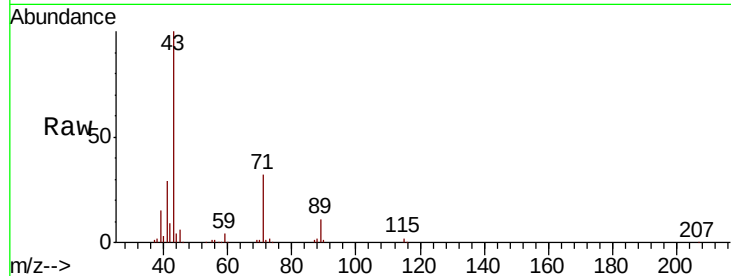
Tgt Ion: 69 Resp: 1559

Ion Ratio Lower Upper

69 100

41 5444.8 69.0 103.4#

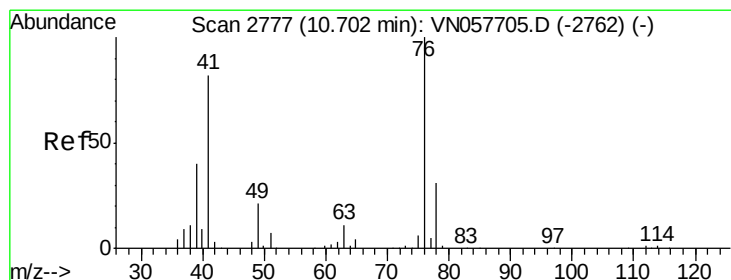
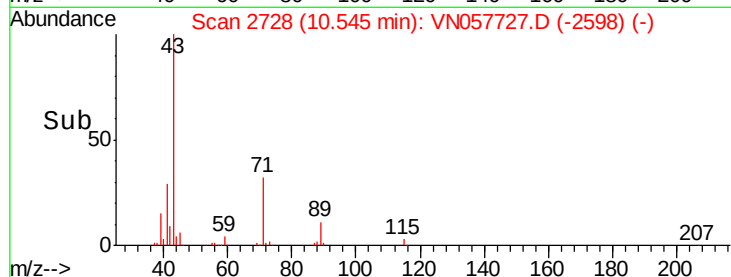
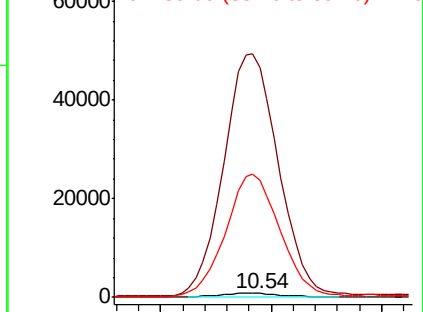
39 2754.1 49.2 73.8#



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: 0.692 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057727.D

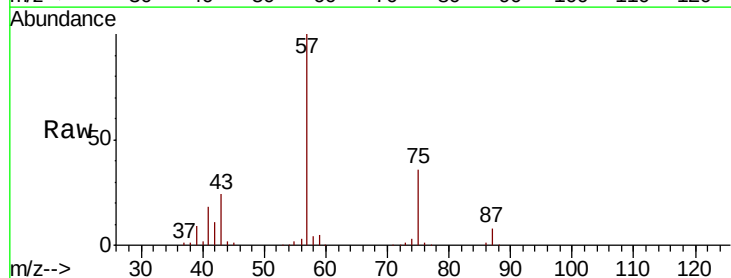
Acq: 6 Sep 2019 20:49

Tgt Ion: 76 Resp: 3775

Ion Ratio Lower Upper

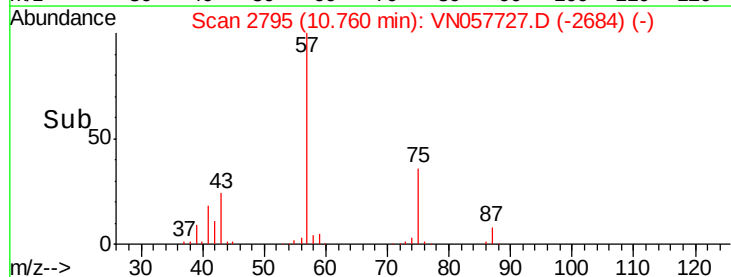
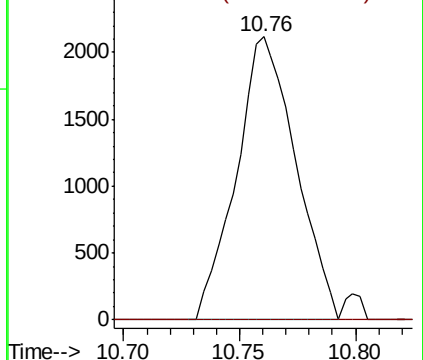
76 100

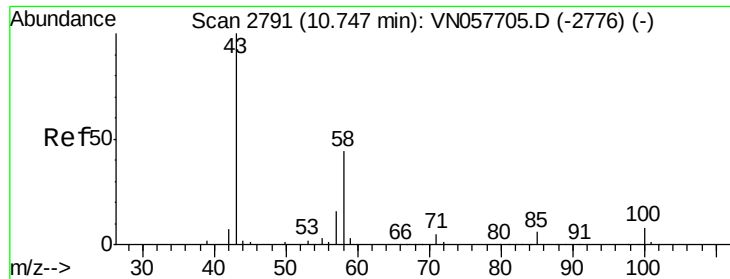
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

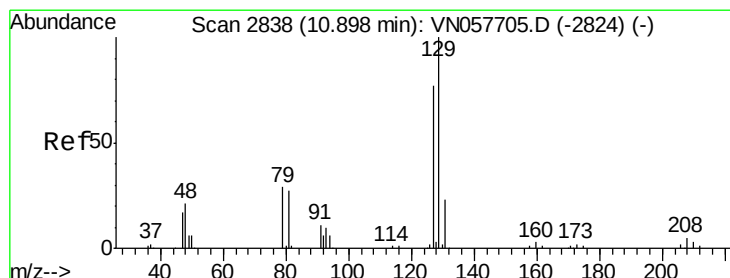
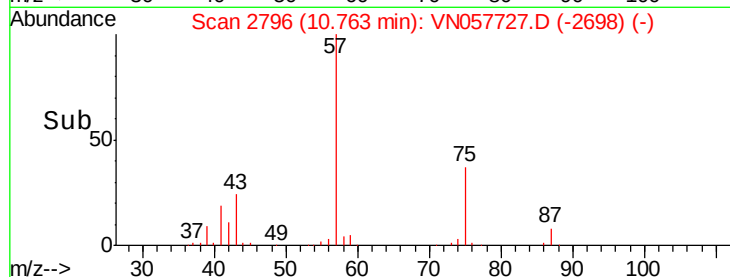
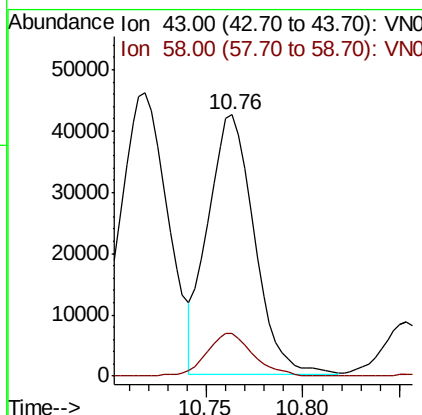
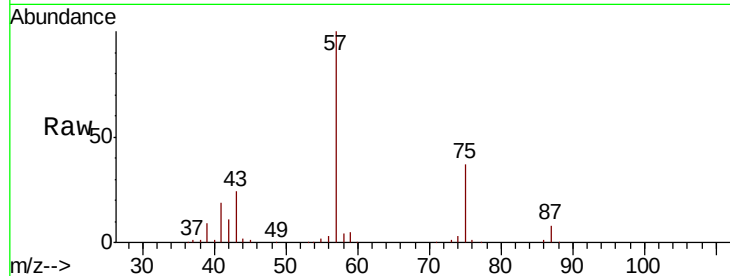




#59
2-Hexanone
Concen: 21.447 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

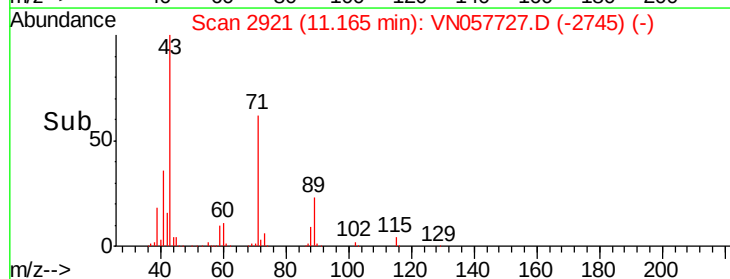
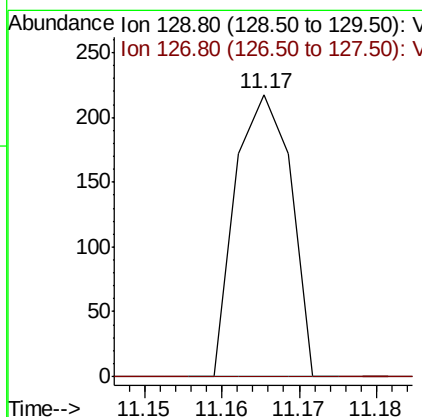
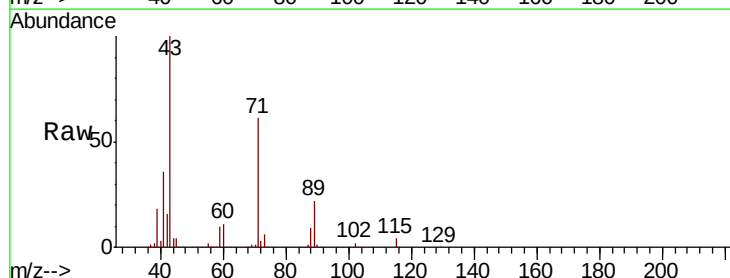
Instrument :
MSVOA_N
ClientSampleId :
T12-B3-(0)

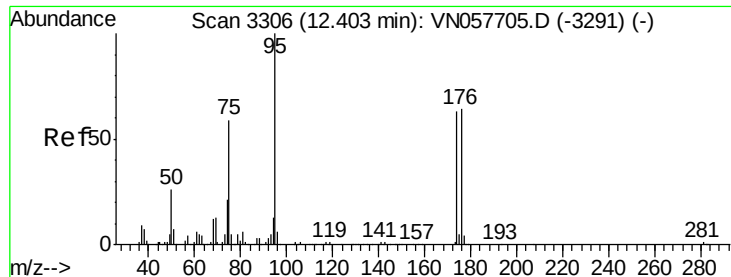
Tgt Ion: 43 Resp: 70496
Ion Ratio Lower Upper
43 100
58 16.8 22.1 66.5#



#60
Dibromochloromethane
Concen: 1.885 ug/l
RT: 11.17 min Scan# 2921
Delta R.T. 0.27 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

Tgt Ion: 129 Resp: 108
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#

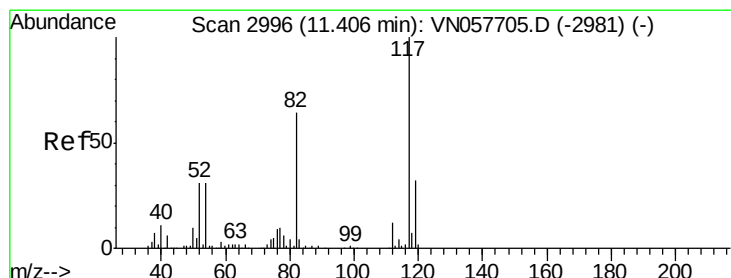
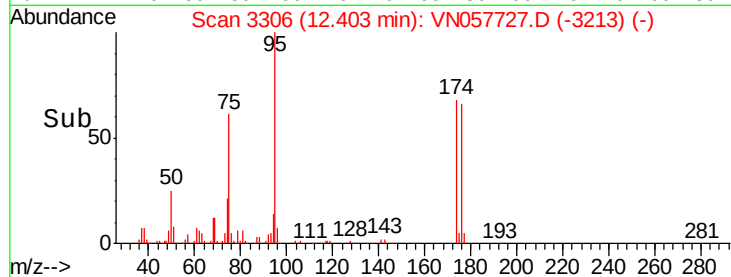
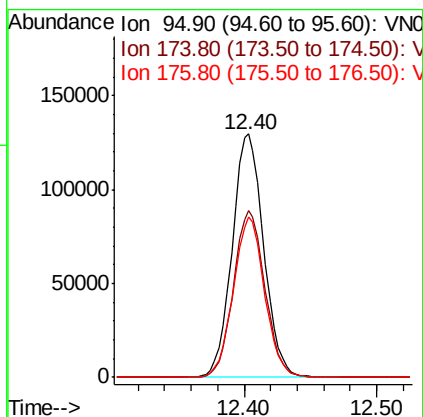
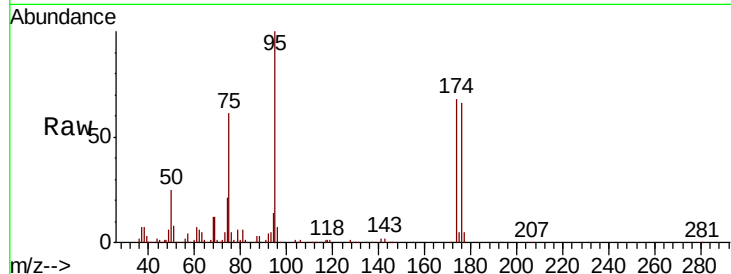




#62
4-Bromofluorobenzene
Concen: 46.017 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

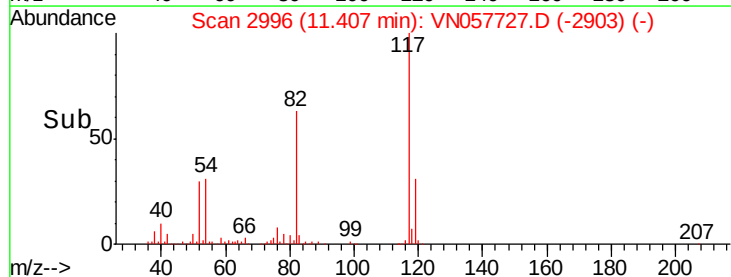
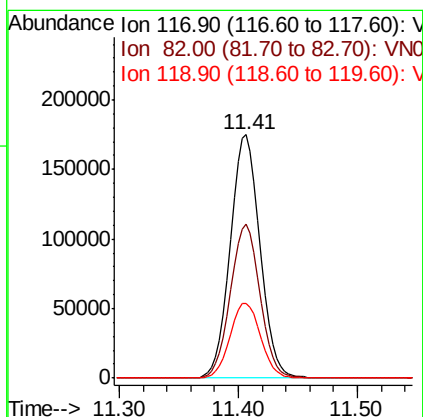
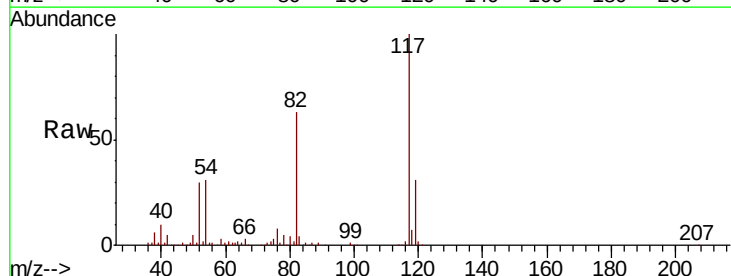
Instrument :
MSVOA_N
ClientSampleId :
T12-B3-(0)

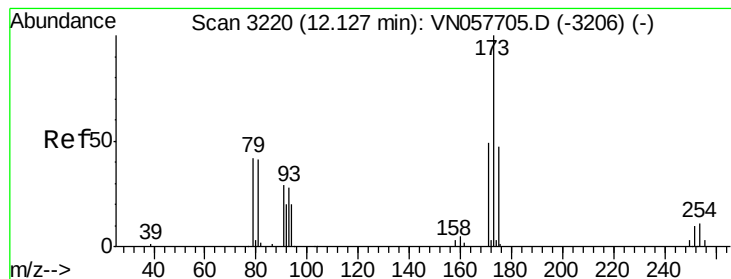
Tgt Ion: 95 Resp: 213229
Ion Ratio Lower Upper
95 100
174 68.5 0.0 128.0
176 65.5 0.0 128.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057727.D
Acq: 6 Sep 2019 20:49

Tgt Ion: 117 Resp: 302352
Ion Ratio Lower Upper
117 100
82 63.2 51.4 77.0
119 30.8 25.4 38.2





#71

Bromoform

Concen: 3.310 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN057727.D

Acq: 6 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

T12-B3-(0)

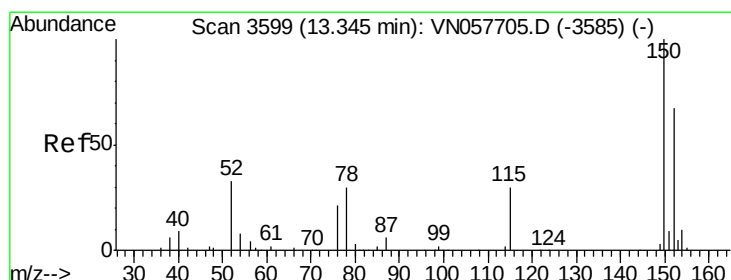
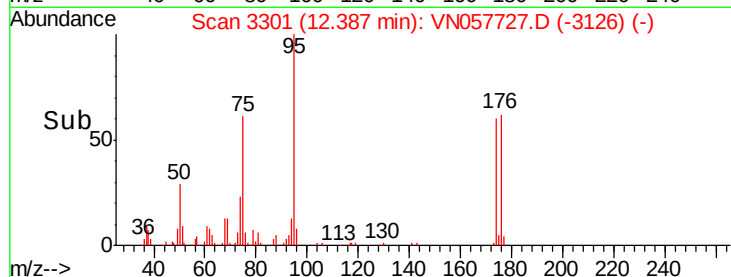
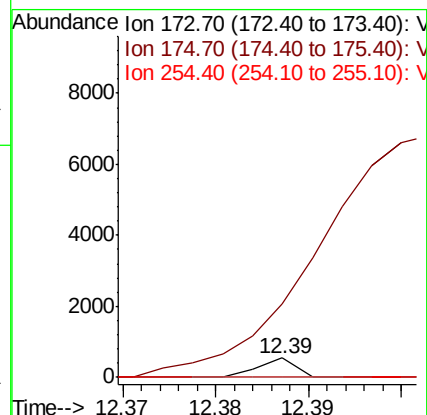
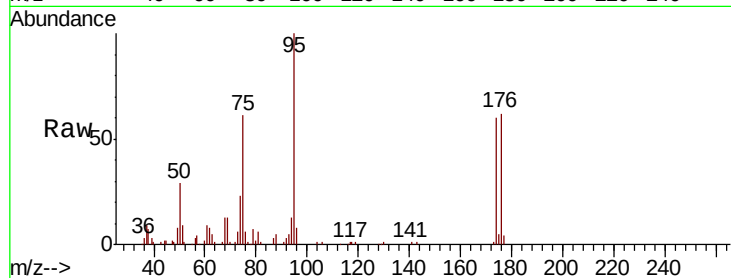
Tgt Ion:173 Resp: 150

Ion Ratio Lower Upper

173 100

175 6288.0 24.6 73.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057727.D

Acq: 6 Sep 2019 20:49

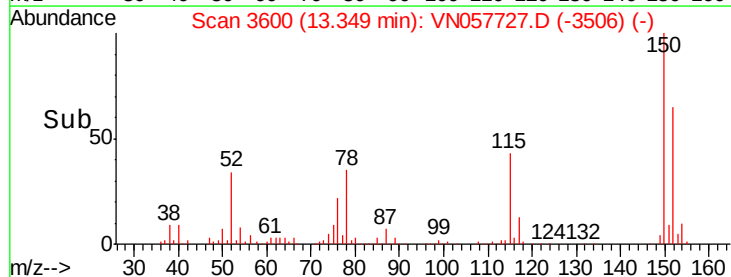
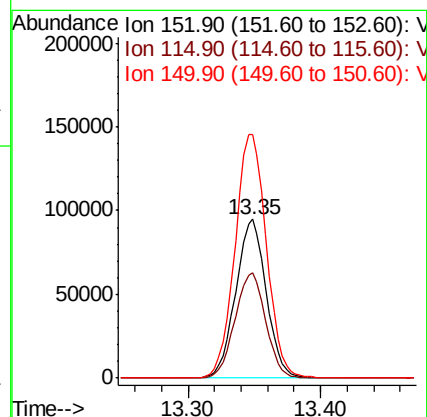
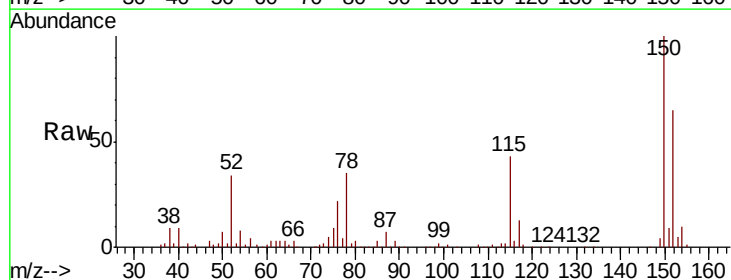
Tgt Ion:152 Resp: 152008

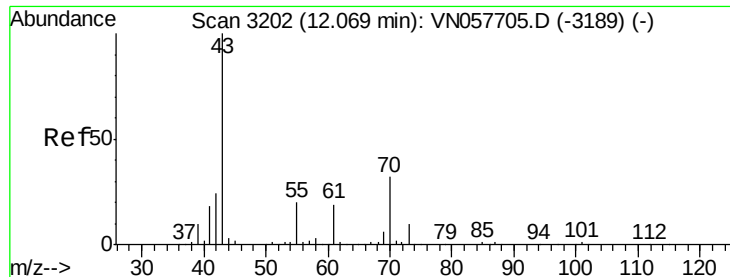
Ion Ratio Lower Upper

152 100

115 66.6 33.8 101.3

150 157.4 0.0 345.4





#74

N-amyI acetate

Concen: 0.445 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057727.D

Acq: 6 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

T12-B3-(0)

Tgt Ion: 43 Resp: 2987

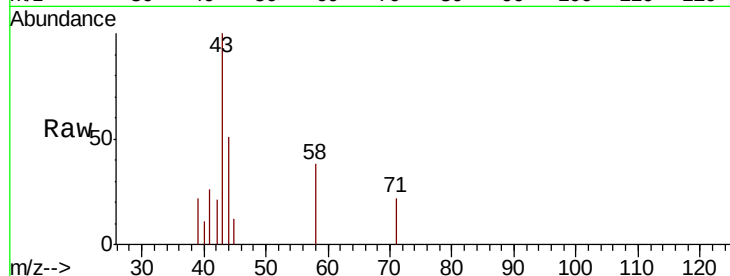
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 3.9 16.3 24.5#

61 0.0 15.0 22.4#

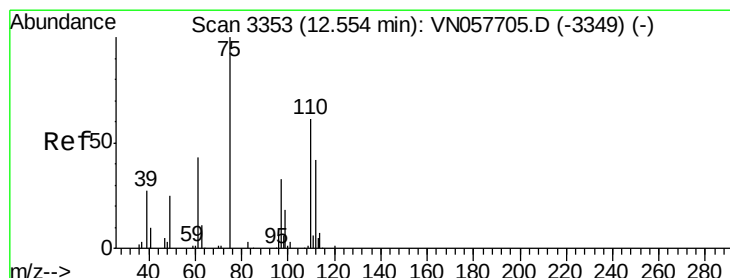
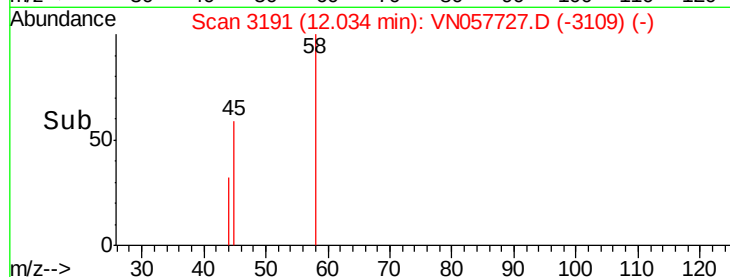
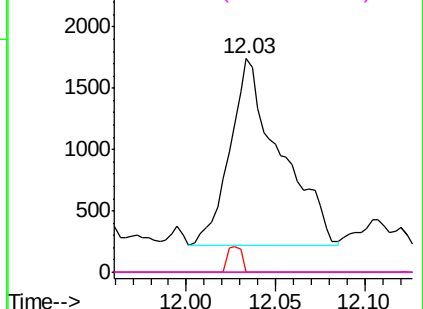


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 36.611 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057727.D

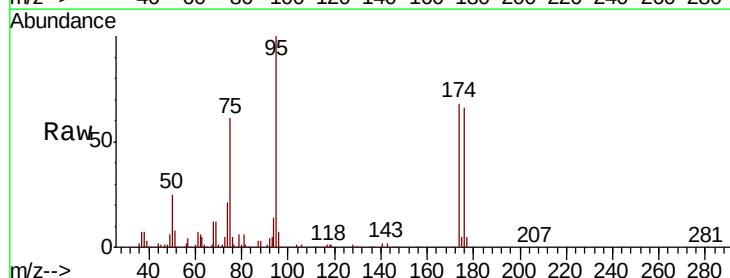
Acq: 6 Sep 2019 20:49

Tgt Ion: 75 Resp: 127797

Ion Ratio Lower Upper

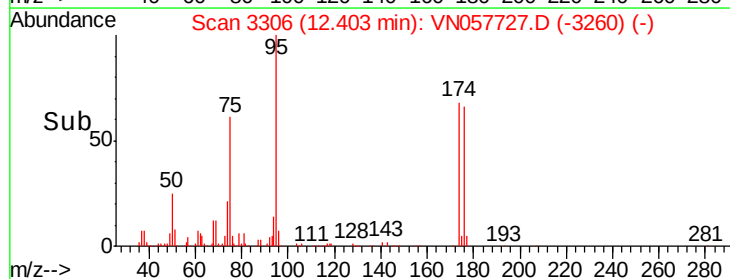
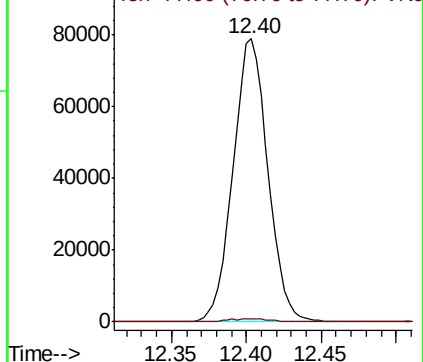
75 100

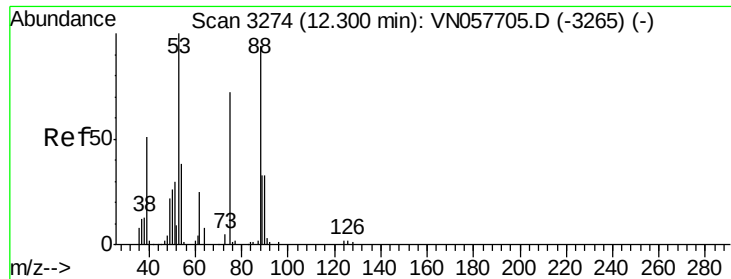
77 1.3 0.0 0.0#



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: 113.861 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057727.D

Acq: 6 Sep 2019 20:49

Instrument :

MSVOA_N

ClientSampleId :

T12-B3-(0)

Tgt Ion: 75 Resp: 127797

Ion Ratio Lower Upper

75 100

53 0.0 107.0 160.6#

89 0.0 36.5 54.7#

