

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057988.D
 Acq On : 12 Sep 2019 22:40
 Operator : JC/SP
 Sample : K4680-26
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4-(1.5)

Quant Time: Sep 13 04:51:51 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	273459	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	481323	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	443078	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	226547	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	320843	57.93	ug/l	0.00
Spiked Amount			Recovery	=	115.86%	
35) Dibromofluoromethane	7.58	113	218267	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	10.09	98	863423	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	12.41	95	292479	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	

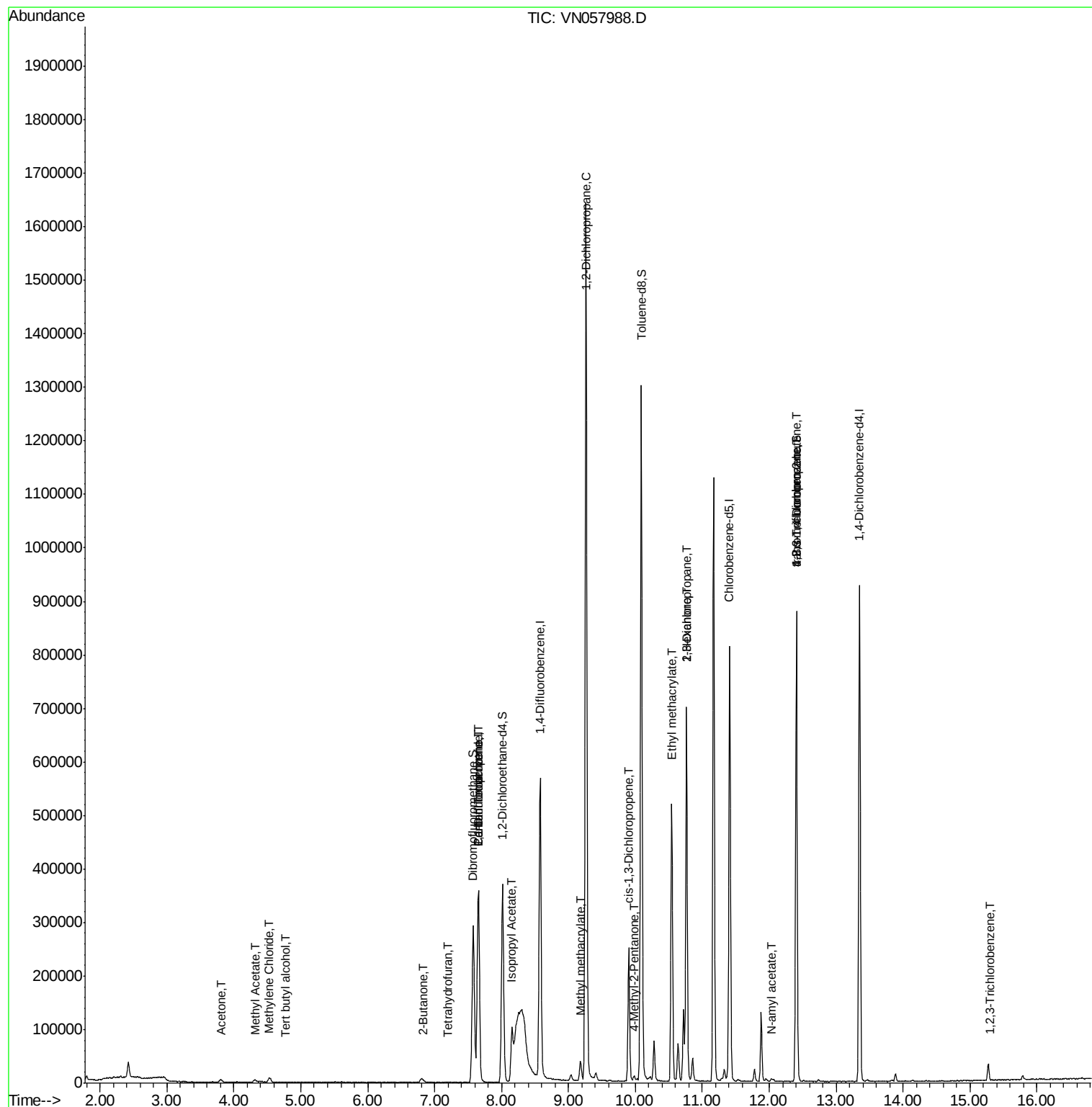
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	109	Below Cal		82
11) Tert butyl alcohol	4.76	59	242	0.361	ug/l #	72
16) Acetone	3.80	43	10358	5.705	ug/l	97
18) Methyl Acetate	4.31	43	7164	1.480	ug/l #	85
20) Methylene Chloride	4.53	84	6117	0.552	ug/l #	93
25) 2-Butanone	6.83	43	1004	0.382	ug/l #	83
29) Tetrahydrofuran	7.20	42	325	0.201	ug/l #	42
31) Cyclohexane	7.65	56	7401	Below Cal	#	23
36) 1,1-Dichloropropene	7.65	75	24076	4.313	ug/l #	46
38) Carbon Tetrachloride	7.65	117	28253	5.544	ug/l #	16
43) Isopropyl Acetate	8.16	43	126771	13.071	ug/l #	84
45) 1,2-Dichloropropane	9.26	63	2123	0.434	ug/l #	44
48) Methyl methacrylate	9.17	41	5616	1.141	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	4972	0.866	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	41449	6.042	ug/l #	68
56) Ethyl methacrylate	10.54	69	2205	0.327	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6734	0.871	ug/l #	43
59) 2-Hexanone	10.76	43	107218	24.923	ug/l #	52
74) N-amyl acetate	12.03	43	5527	0.722	ug/l #	47
76) 1,2,3-Trichloropropane	12.41	75	160919	31.400	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	160919	110.496	ug/l #	6
95) Naphthalene	15.13	128	1166	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	66	1.012	ug/l #	12

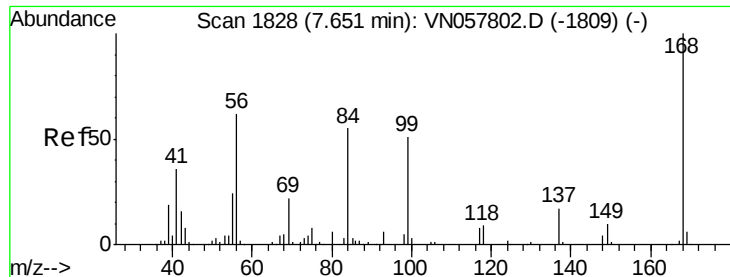
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057988.D

Acq: 12 Sep 2019 22:40

Instrument :

MSVOA_N

ClientSampleId :

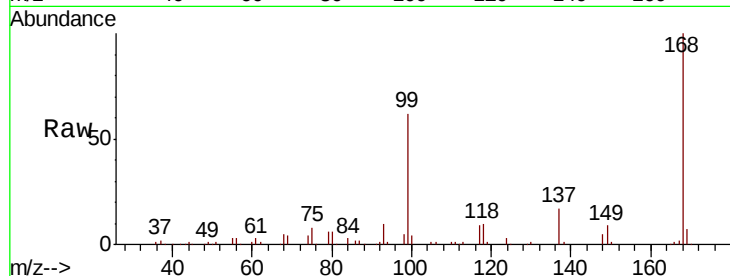
T1-4-(1.5)

Tgt Ion: 168 Resp: 273459

Ion Ratio Lower Upper

168 100

99 61.5 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) (-)

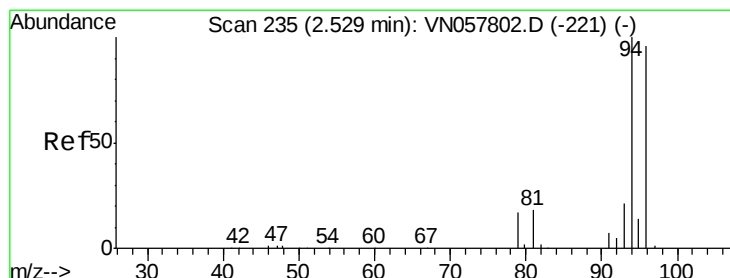
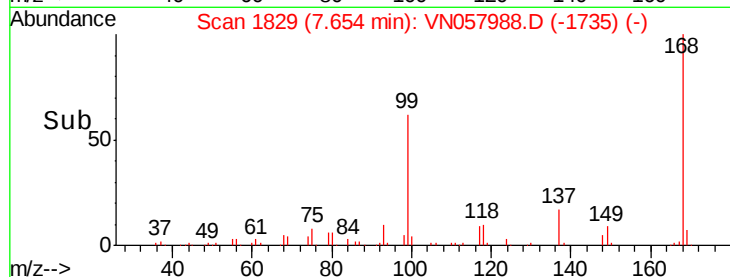
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN057988.D

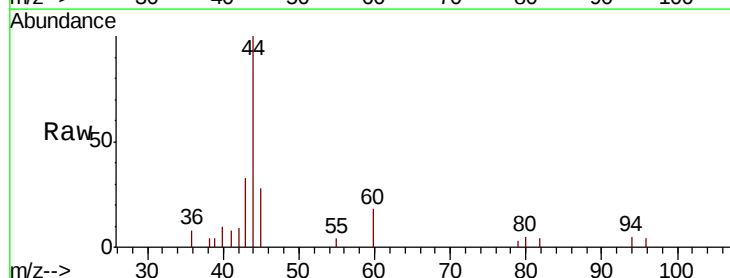
Acq: 12 Sep 2019 22:40

Tgt Ion: 94 Resp: 109

Ion Ratio Lower Upper

94 100

96 78.2 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

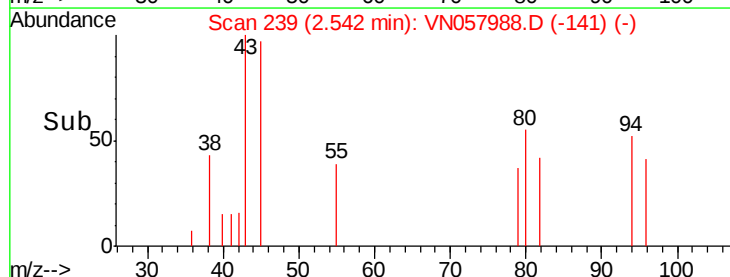
300

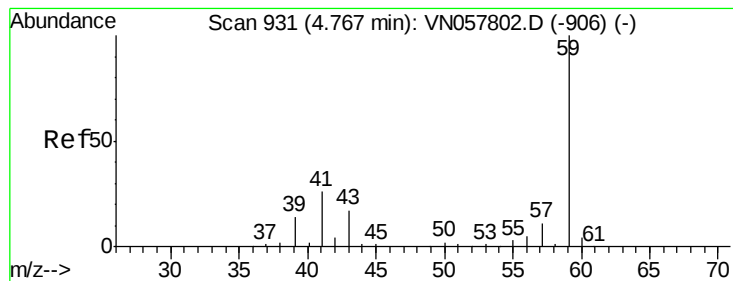
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 0.361 ug/l

RT: 4.76 min Scan# 929

Delta R.T. -0.01 min

Lab File: VN057988.D

Acq: 12 Sep 2019 22:40

Instrument :

MSVOA_N

ClientSampled :

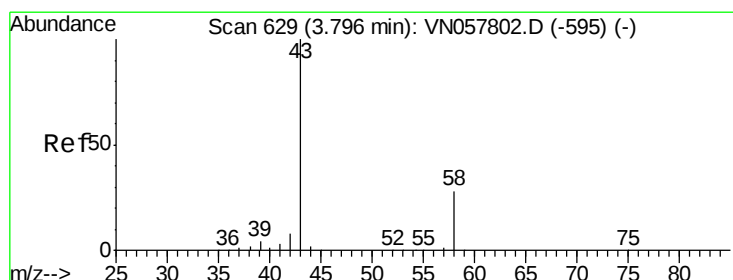
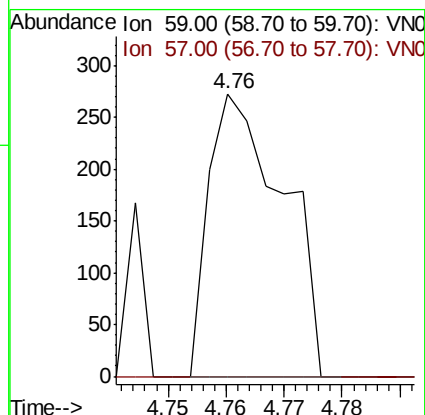
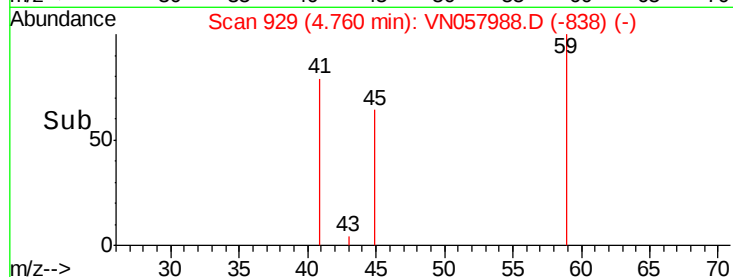
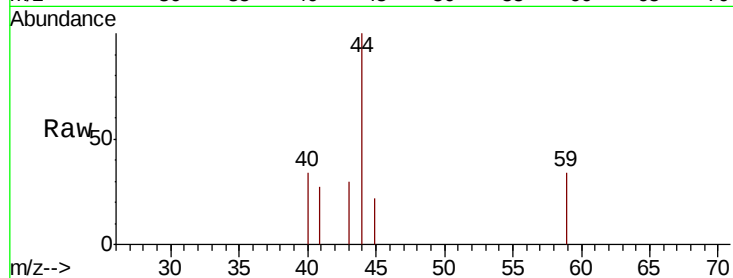
T1-4-(1.5)

Tgt Ion: 59 Resp: 242

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#16

Acetone

Concen: 5.705 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057988.D

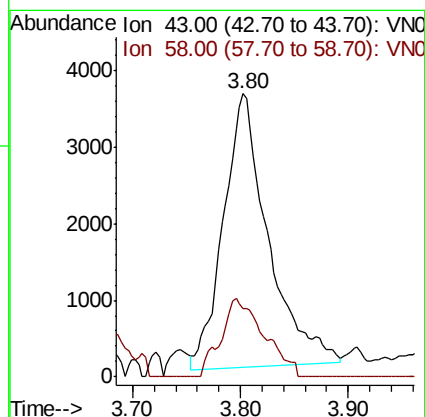
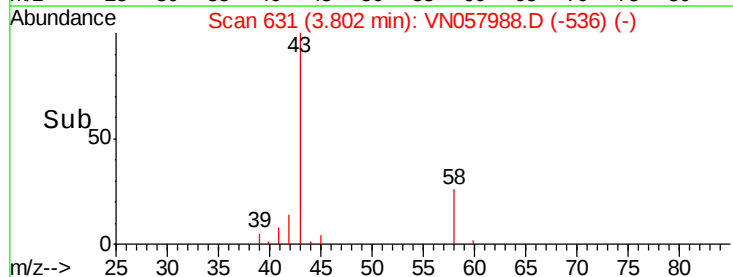
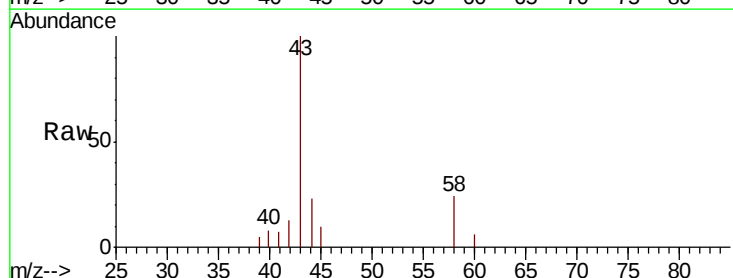
Acq: 12 Sep 2019 22:40

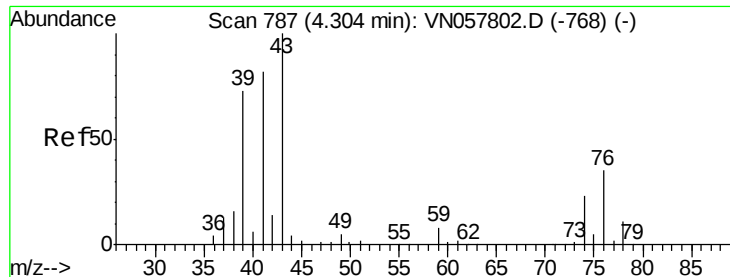
Tgt Ion: 43 Resp: 10358

Ion Ratio Lower Upper

43 100

58 25.9 22.2 33.2

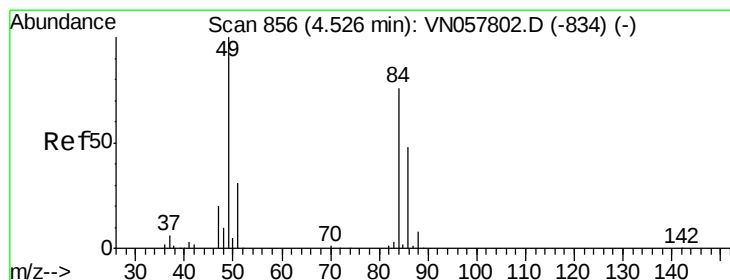
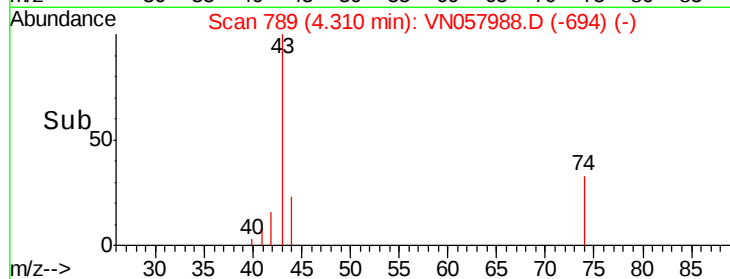
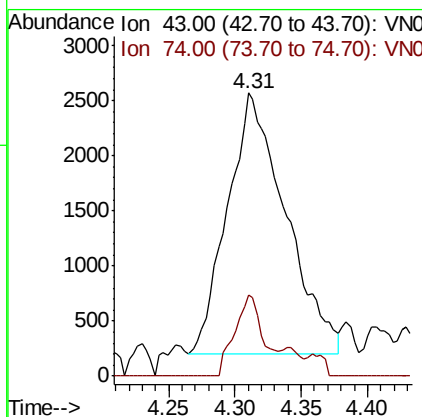
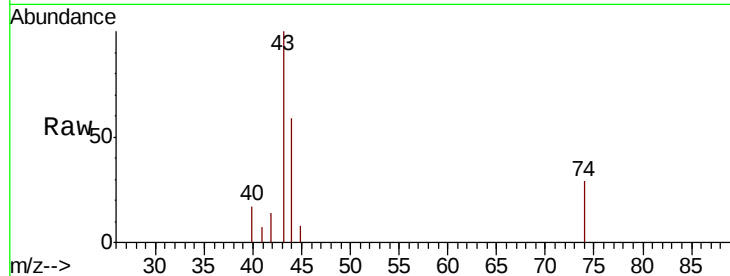




#18
Methyl Acetate
Concen: 1.480 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

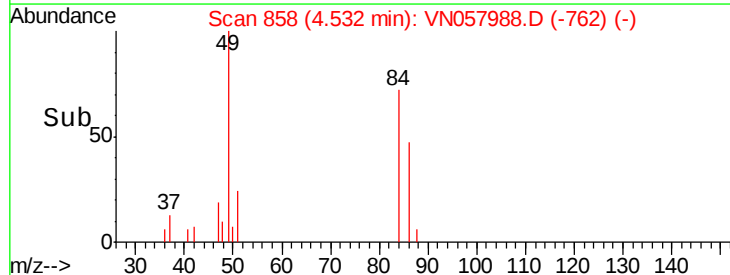
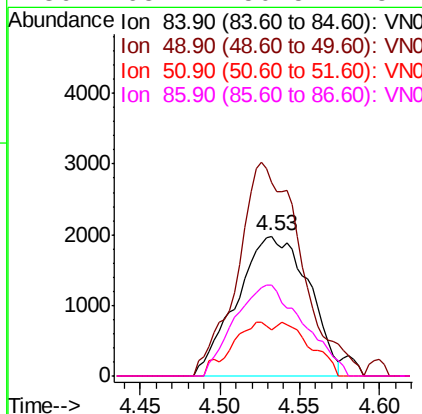
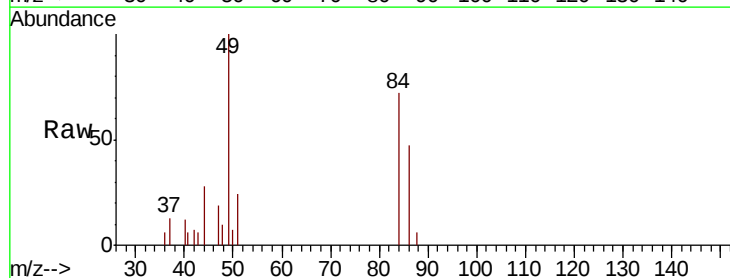
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(1.5)

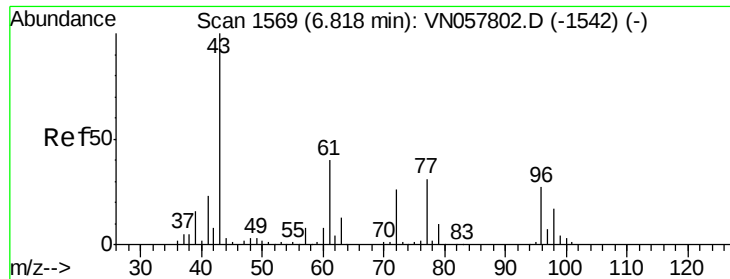
Tgt Ion: 43 Resp: 7164
Ion Ratio Lower Upper
43 100
74 15.4 17.9 26.9#



#20
Methylene Chloride
Concen: 0.552 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

Tgt Ion: 84 Resp: 6117
Ion Ratio Lower Upper
84 100
49 138.5 104.8 157.2
51 32.8 33.0 49.4#
86 65.4 50.5 75.7

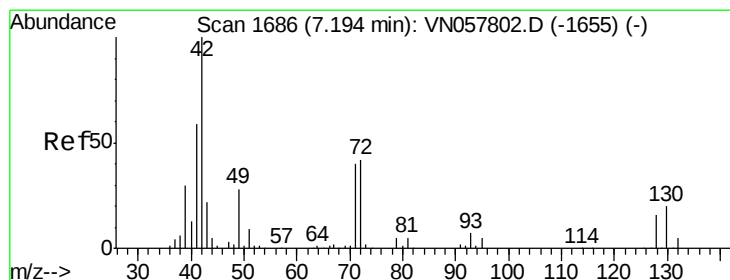
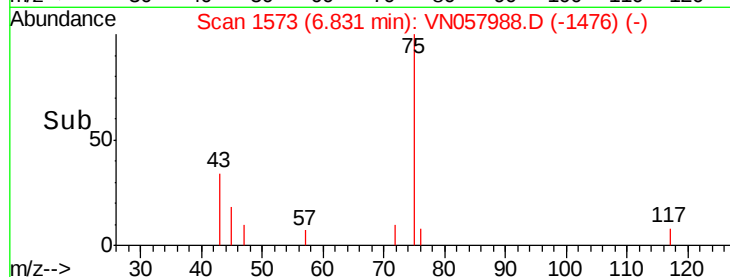
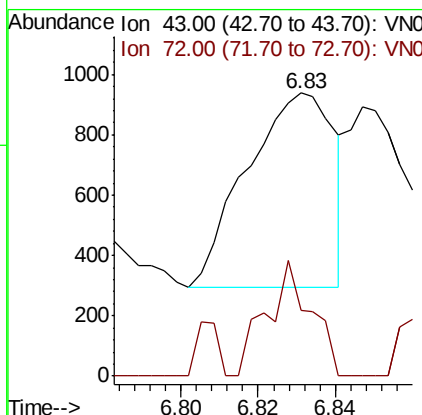
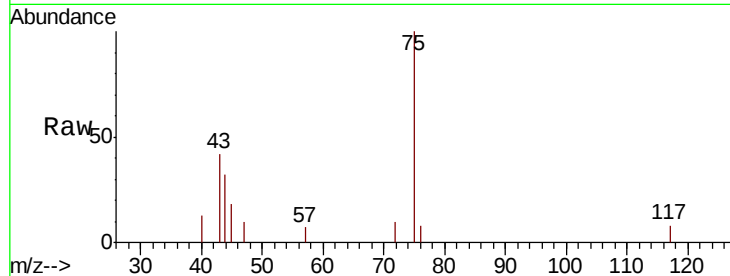




#25
2-Butanone
Concen: 0.382 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

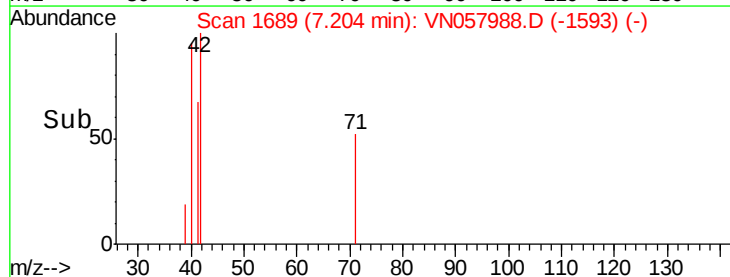
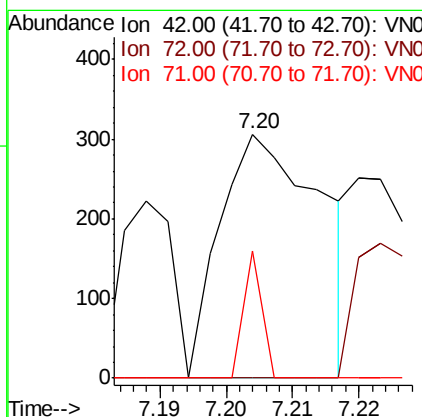
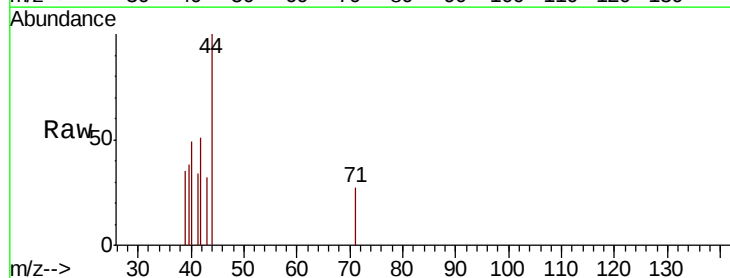
Instrument :
MSVOA_N
ClientSampled :
T1-4-(1.5)

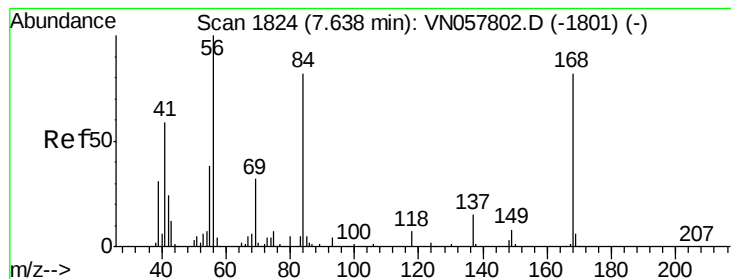
Tgt Ion: 43 Resp: 1004
Ion Ratio Lower Upper
43 100
72 34.3 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.201 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

Tgt Ion: 42 Resp: 325
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 9.5 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057988.D

Acq: 12 Sep 2019 22:40

Instrument :

MSVOA_N

ClientSampled :

T1-4-(1.5)

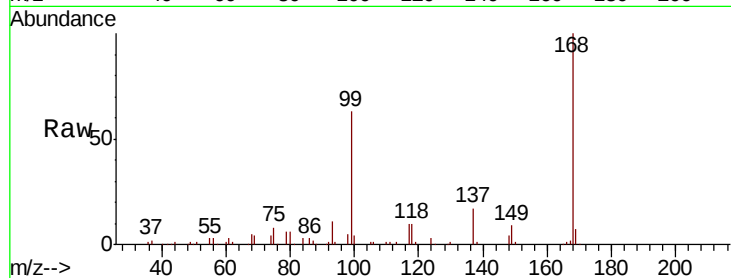
Tgt Ion: 56 Resp: 7401

Ion Ratio Lower Upper

56 100

69 146.5 25.9 38.9#

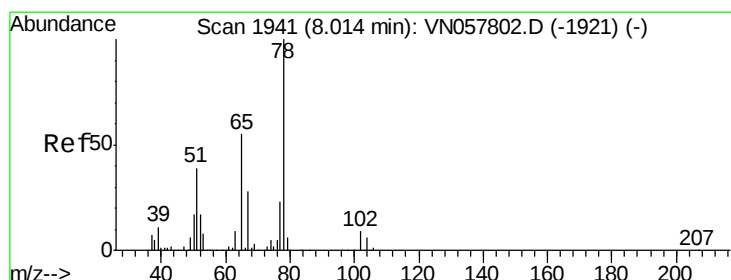
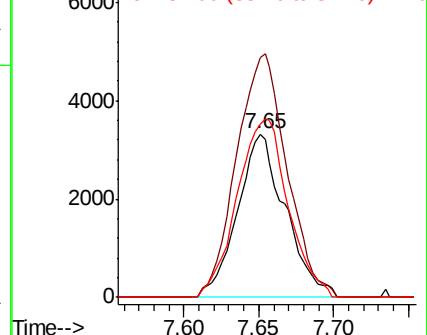
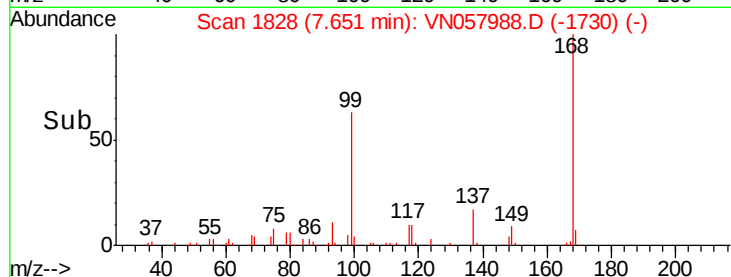
84 105.7 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 57.928 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057988.D

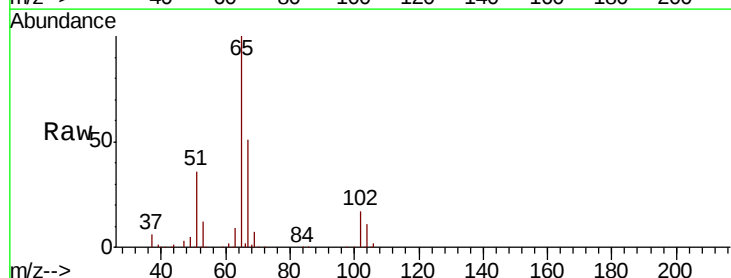
Acq: 12 Sep 2019 22:40

Tgt Ion: 65 Resp: 320843

Ion Ratio Lower Upper

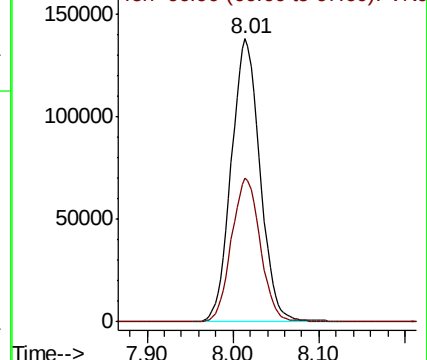
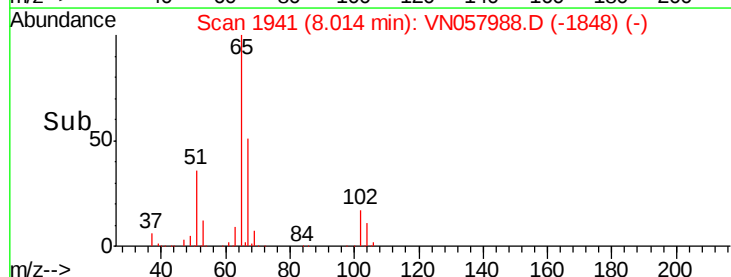
65 100

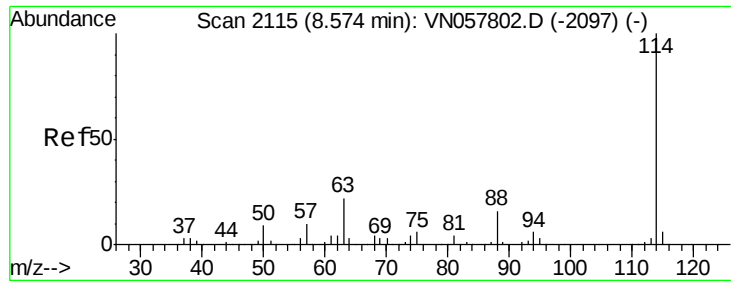
67 50.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

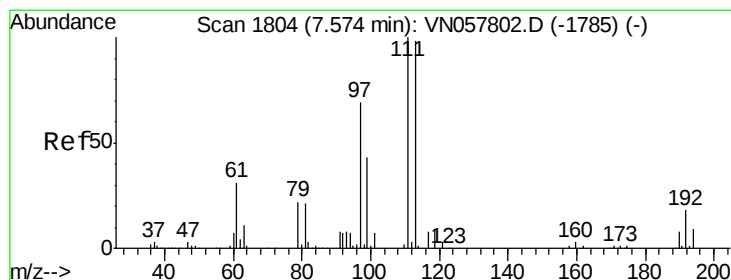
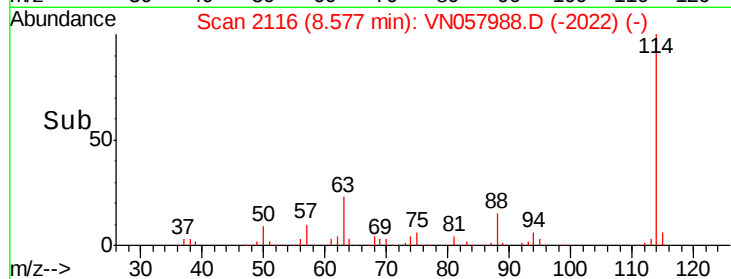
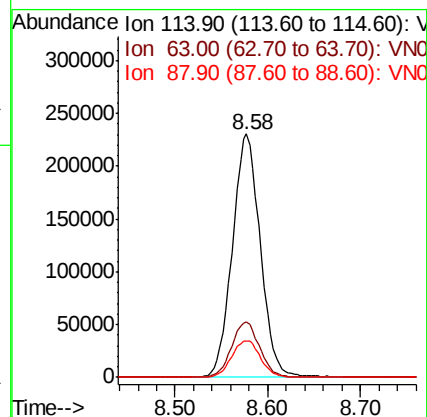
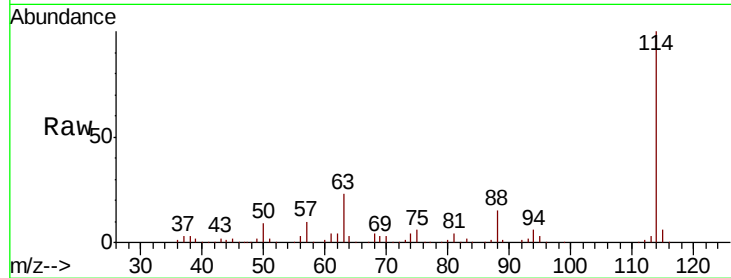




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057988.D
 Acq: 12 Sep 2019 22:40

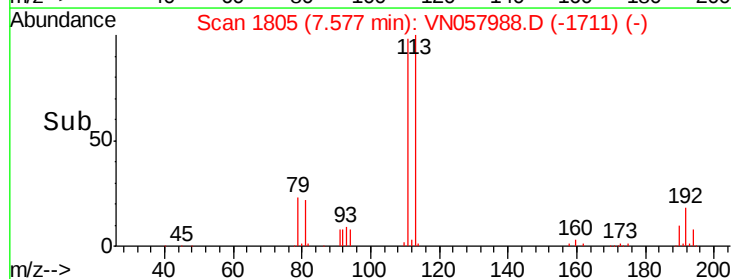
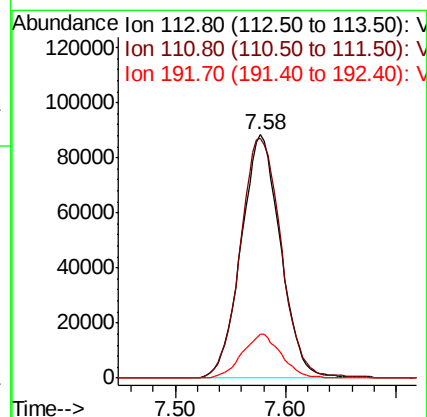
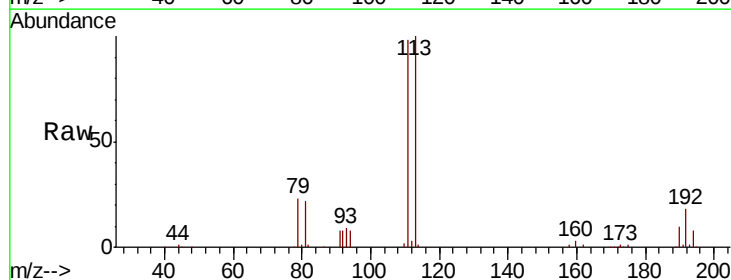
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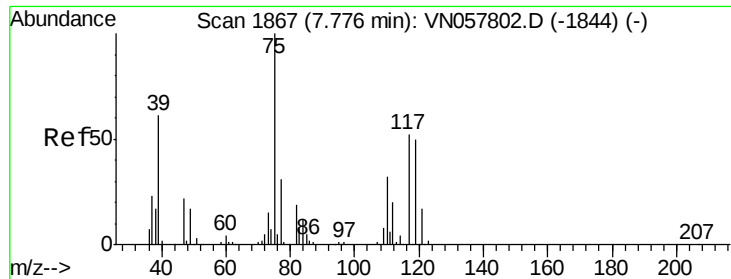
Tgt Ion:114 Resp: 481323
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.0
 88 15.0 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 49.132 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057988.D
 Acq: 12 Sep 2019 22:40

Tgt Ion:113 Resp: 218267
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.3 121.9
 192 17.8 14.6 22.0

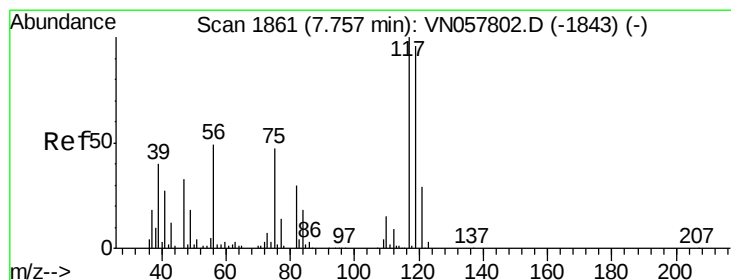
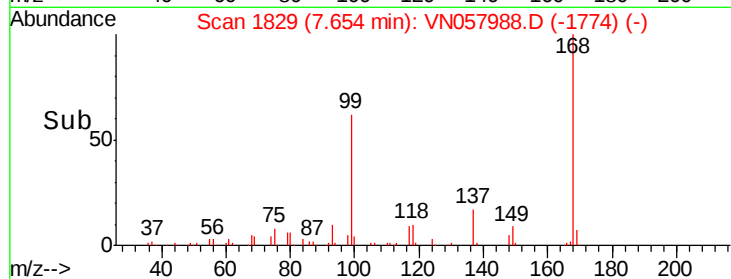
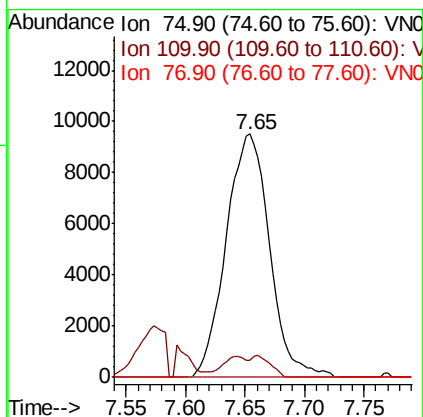
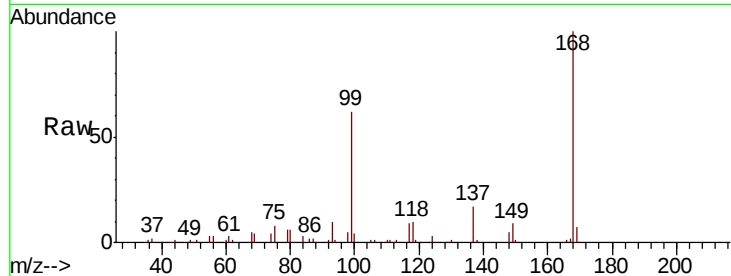




#36
 1,1-Dichloropropene
 Concen: 4.313 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057988.D
 Acq: 12 Sep 2019 22:40

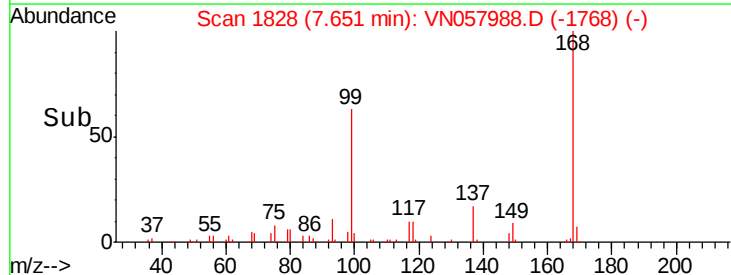
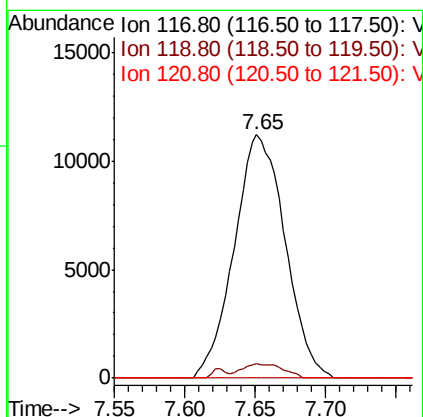
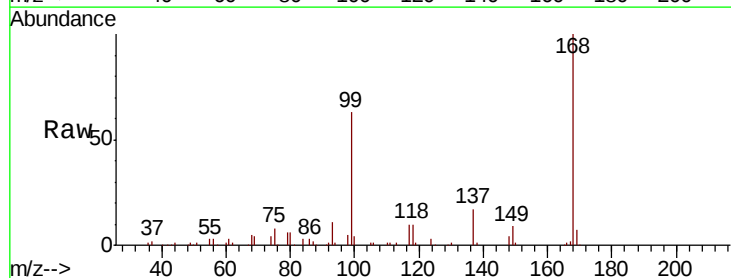
Instrument :
 MSVOA_N
 ClientSampled :
 T1-4-(1.5)

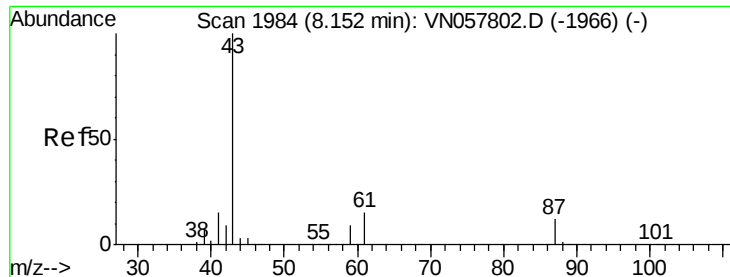
Tgt Ion: 75 Resp: 24076
 Ion Ratio Lower Upper
 75 100
 110 3.7 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.544 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057988.D
 Acq: 12 Sep 2019 22:40

Tgt Ion: 117 Resp: 28253
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 13.071 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057988.D

Acq: 12 Sep 2019 22:40

Instrument :

MSVOA_N

ClientSampled :

T1-4-(1.5)

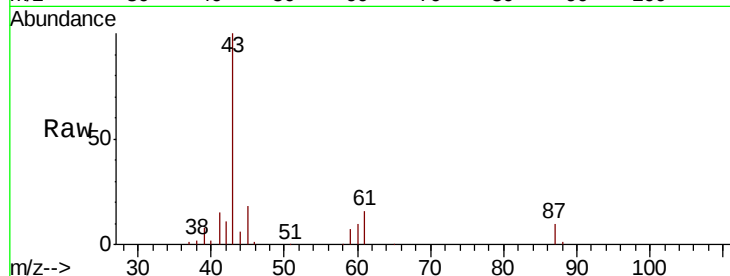
Tgt Ion: 43 Resp: 126771

Ion Ratio Lower Upper

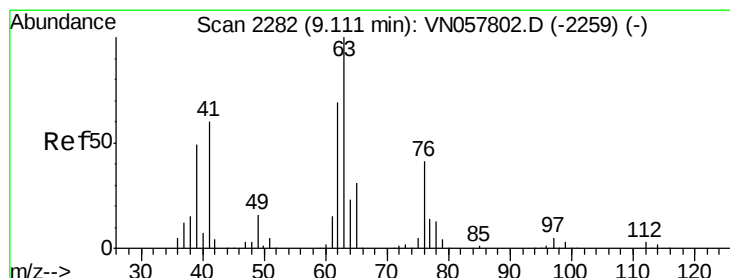
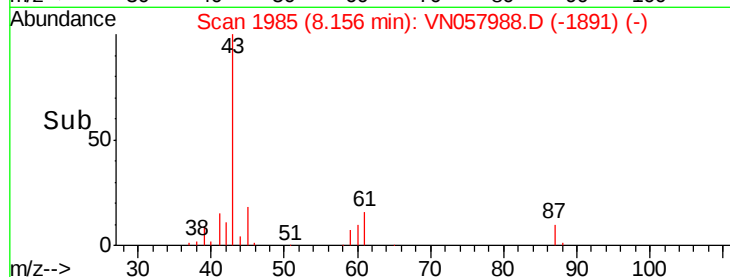
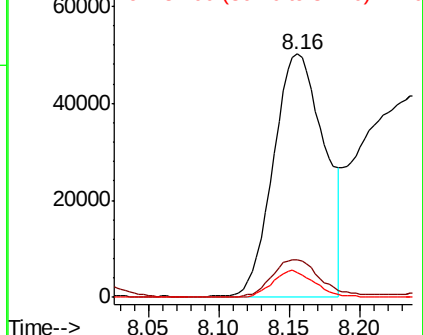
43 100

61 14.9 20.1 30.1#

87 9.0 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.434 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057988.D

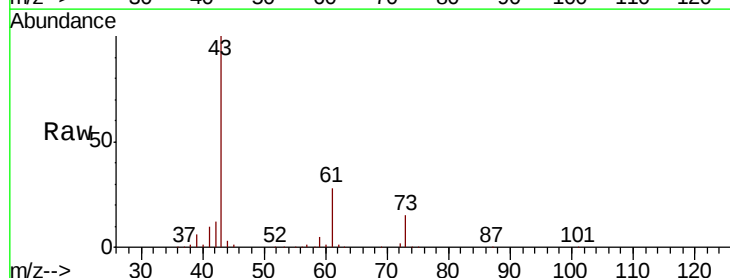
Acq: 12 Sep 2019 22:40

Tgt Ion: 63 Resp: 2123

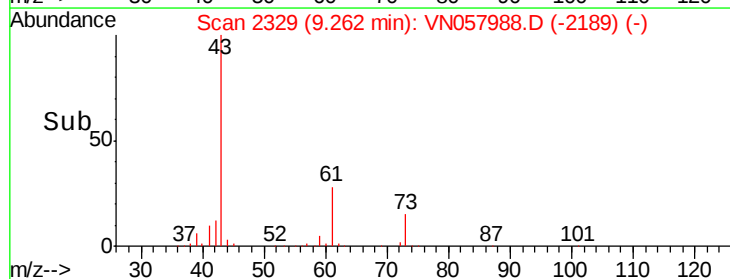
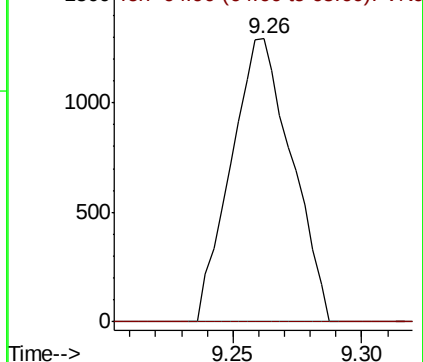
Ion Ratio Lower Upper

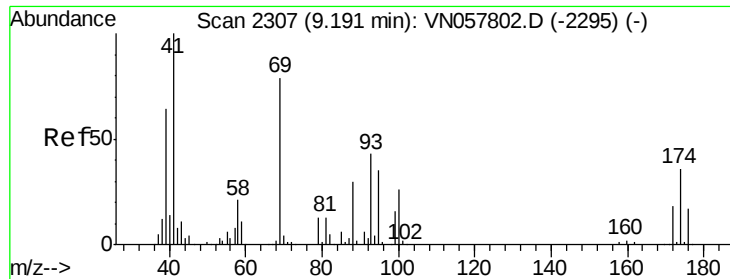
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO

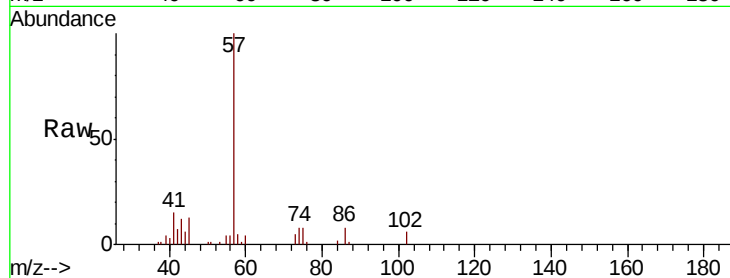




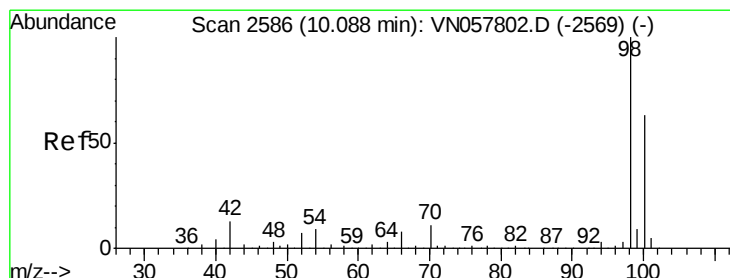
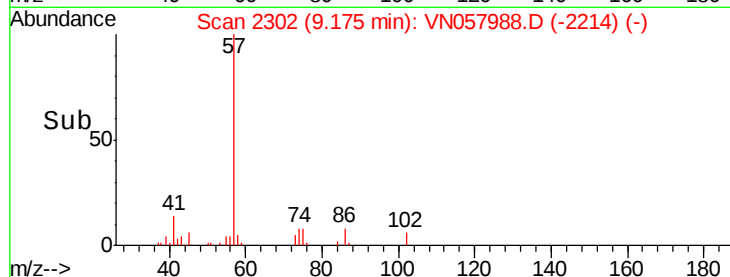
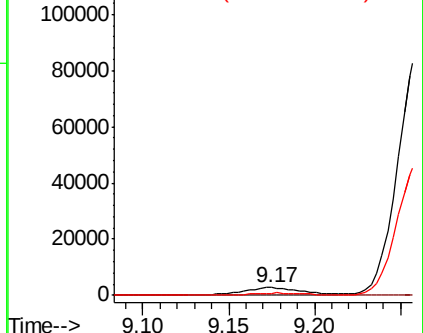
#48
Methyl methacrylate
Concen: 1.141 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

Instrument :
MSVOA_N
ClientSampleId :
T1-4-(1.5)

Tgt Ion: 41 Resp: 5616
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

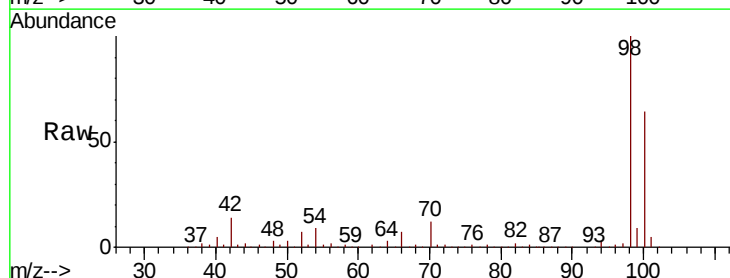


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

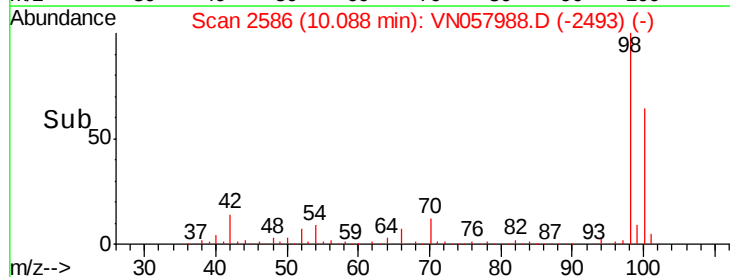
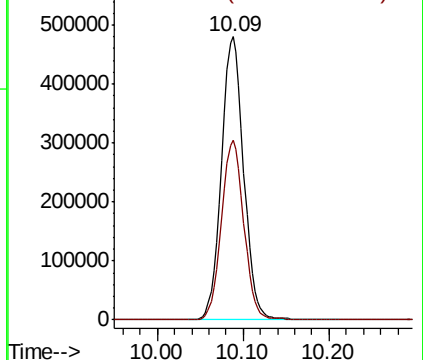


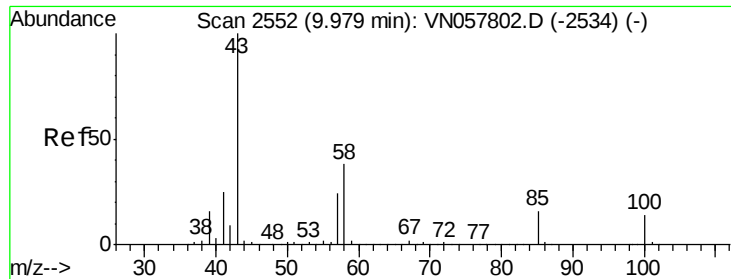
#50
Toluene-d8
Concen: 50.060 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

Tgt Ion: 98 Resp: 863423
Ion Ratio Lower Upper
98 100
100 63.9 50.3 75.5



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

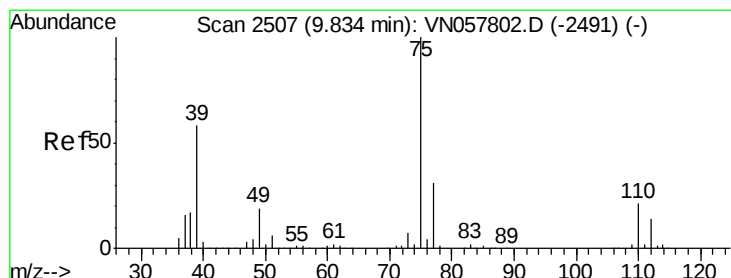
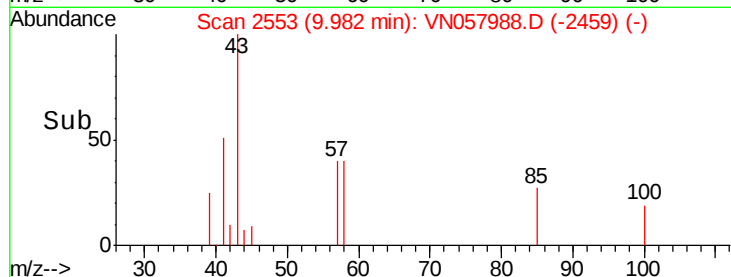
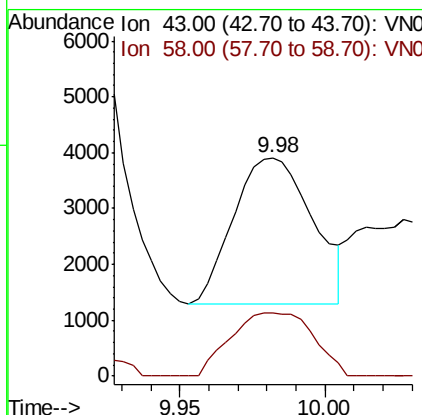
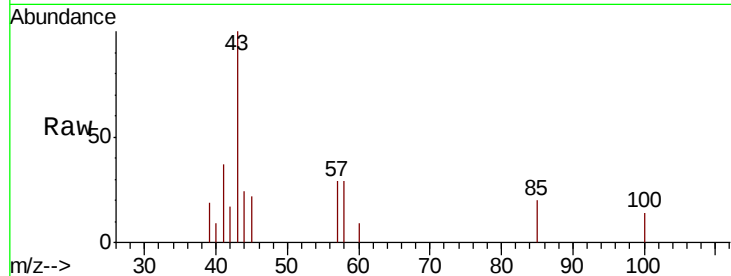




#51
4-Methyl-2-Pentanone
Concen: 0.866 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

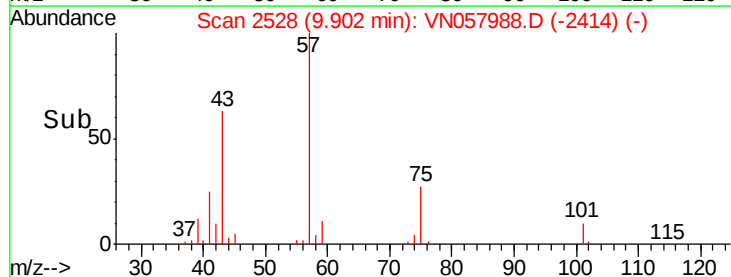
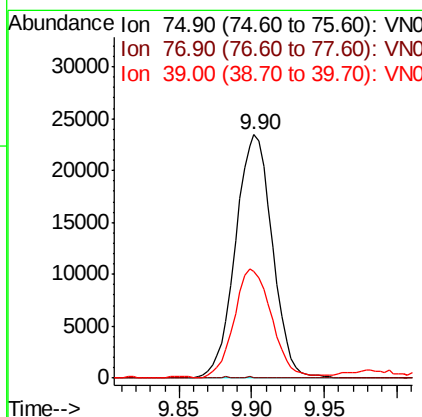
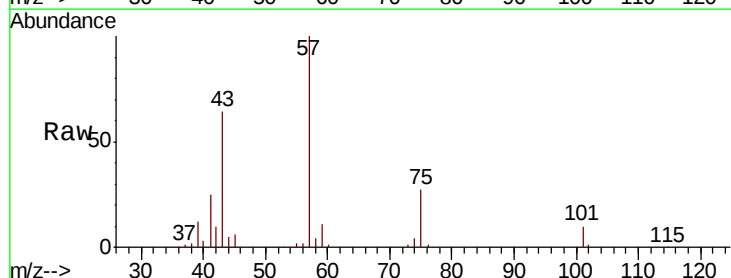
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(1.5)

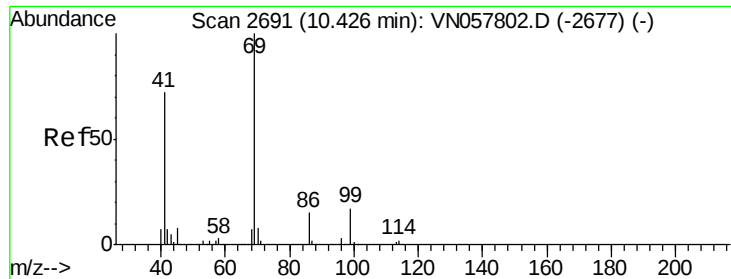
Tgt Ion: 43 Resp: 4972
Ion Ratio Lower Upper
43 100
58 45.1 29.8 44.6#



#54
cis-1,3-Dichloropropene
Concen: 6.042 ug/l
RT: 9.90 min Scan# 2528
Delta R.T. 0.07 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

Tgt Ion: 75 Resp: 41449
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 43.2 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.327 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057988.D

Acq: 12 Sep 2019 22:40

Instrument :

MSVOA_N

ClientSampled :

T1-4-(1.5)

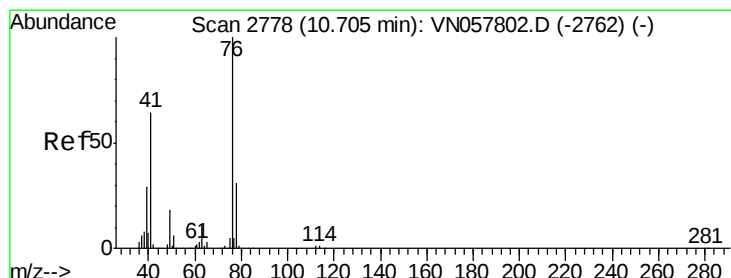
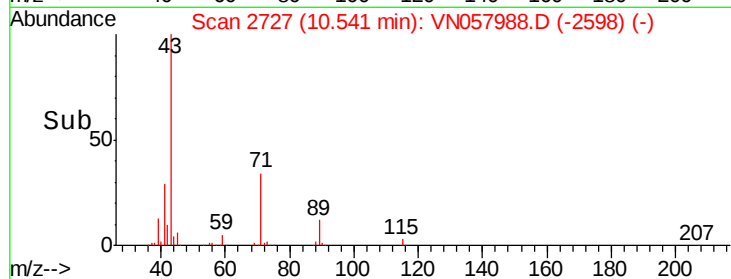
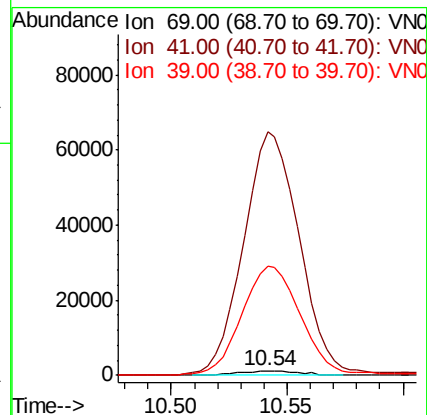
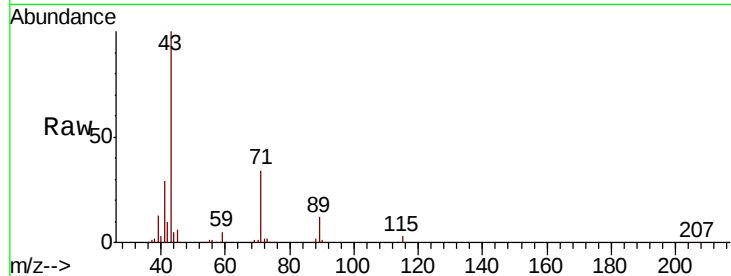
Tgt Ion: 69 Resp: 2205

Ion Ratio Lower Upper

69 100

41 4903.4 56.7 85.1#

39 2330.9 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.871 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057988.D

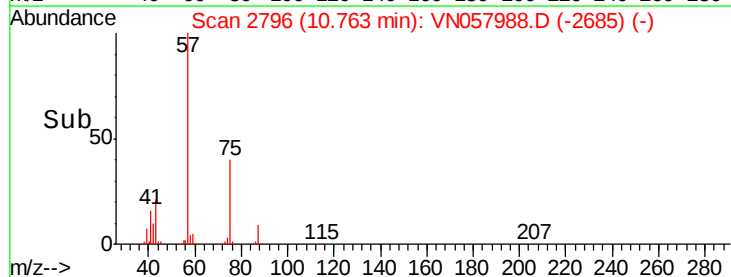
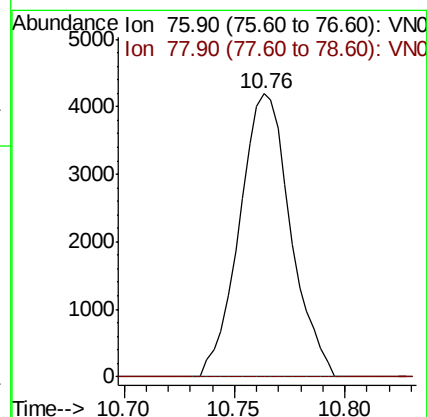
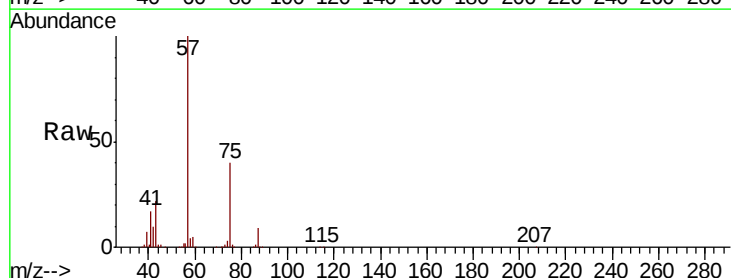
Acq: 12 Sep 2019 22:40

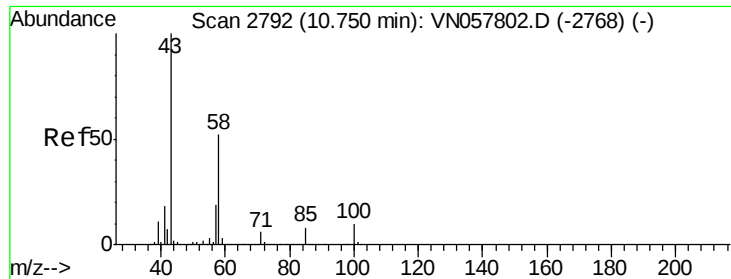
Tgt Ion: 76 Resp: 6734

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

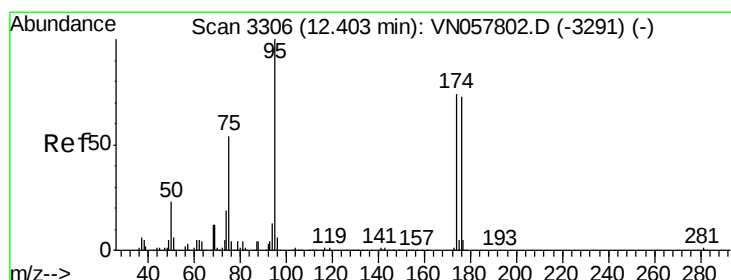
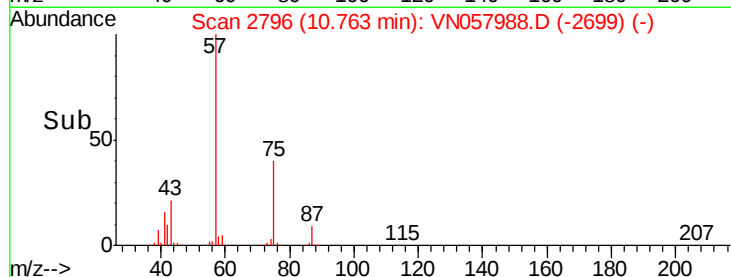
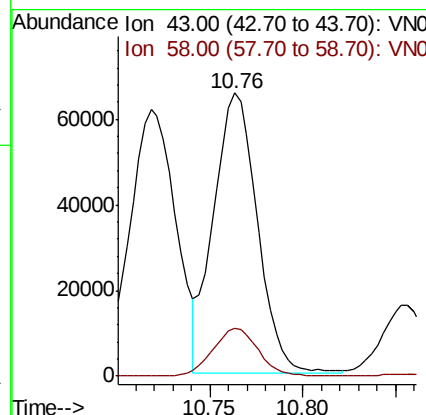
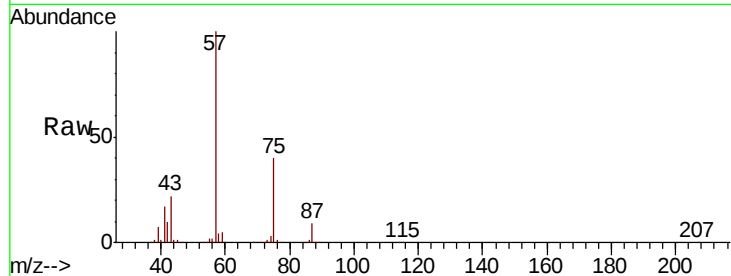




#59
2-Hexanone
Concen: 24.923 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

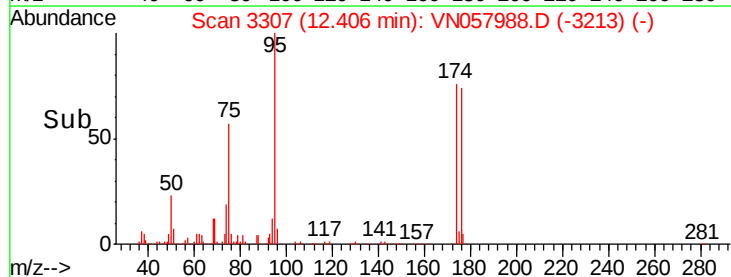
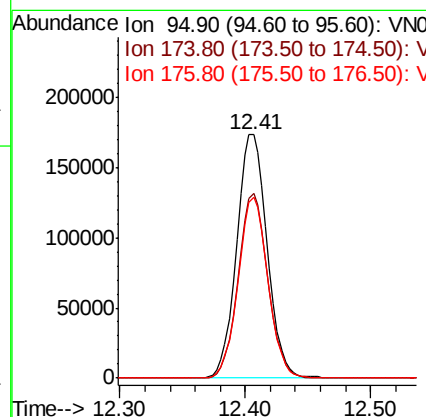
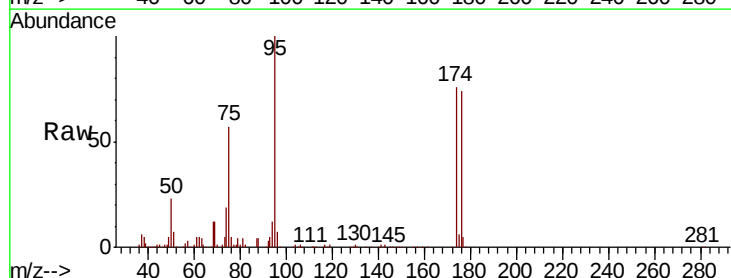
Instrument :
MSVOA_N
ClientSampled :
T1-4-(1.5)

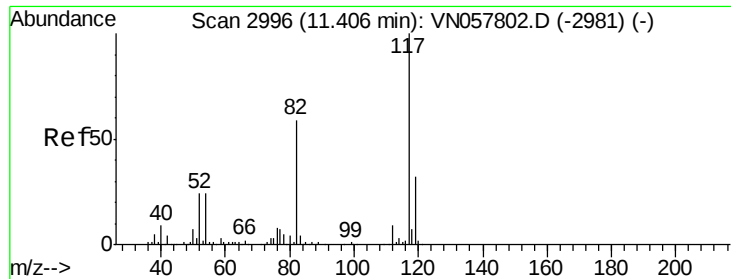
Tgt Ion: 43 Resp: 107218
Ion Ratio Lower Upper
43 100
58 17.7 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 44.497 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

Tgt Ion: 95 Resp: 292479
Ion Ratio Lower Upper
95 100
174 73.8 0.0 150.2
176 72.5 0.0 146.0

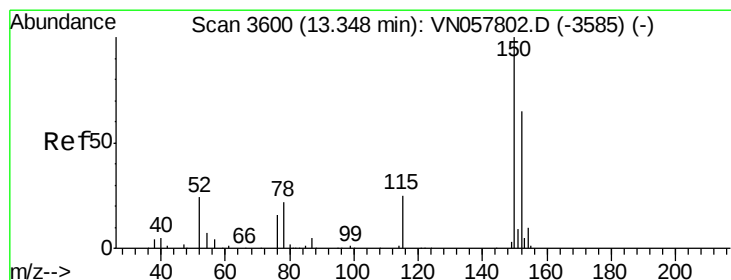
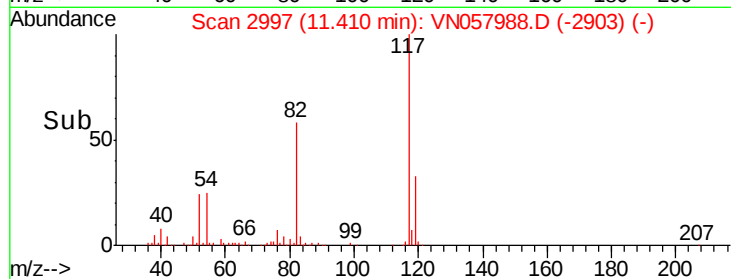
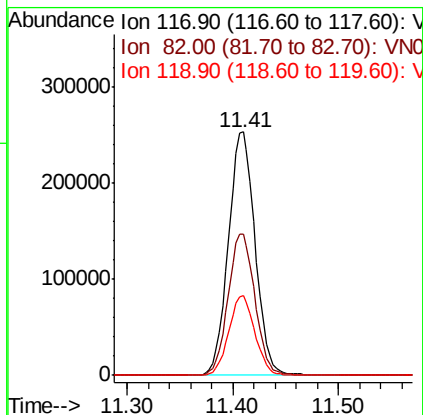
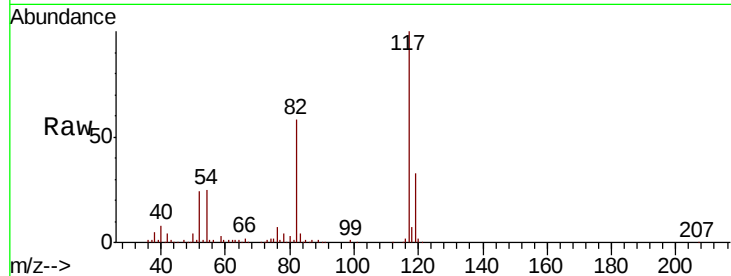




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

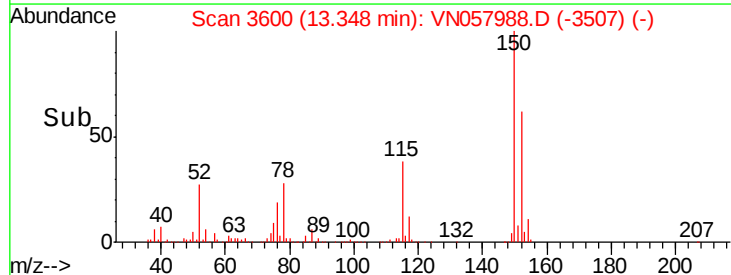
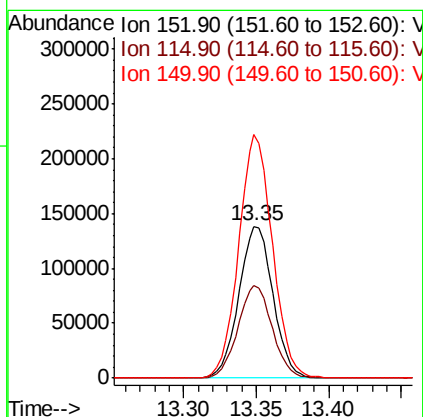
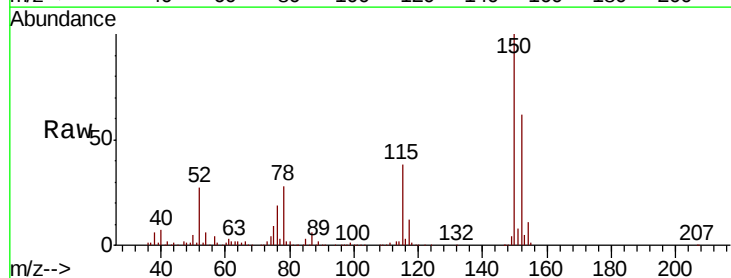
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(1.5)

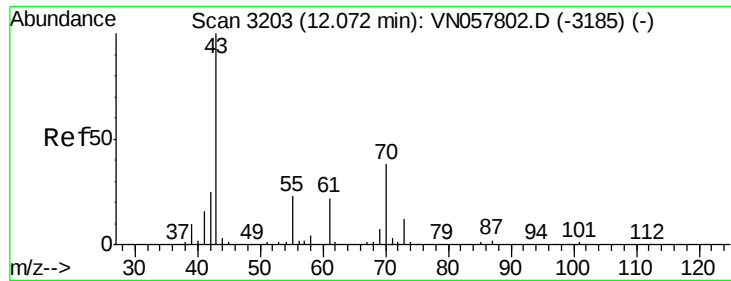
Tgt Ion:117 Resp: 443078
Ion Ratio Lower Upper
117 100
82 57.9 47.2 70.8
119 32.6 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057988.D
Acq: 12 Sep 2019 22:40

Tgt Ion:152 Resp: 226547
Ion Ratio Lower Upper
152 100
115 61.3 30.3 91.0
150 158.2 0.0 352.4





#74

N-amyI acetate

Concen: 0.722 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057988.D

Acq: 12 Sep 2019 22:40

Instrument :

MSVOA_N

ClientSampleId :

T1-4-(1.5)

Tgt Ion: 43 Resp: 5527

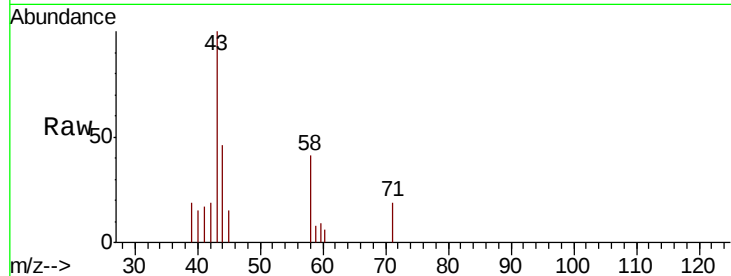
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.2 18.6 27.8#

61 0.0 17.4 26.2#

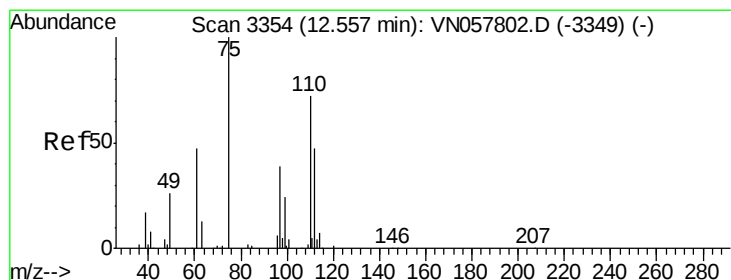
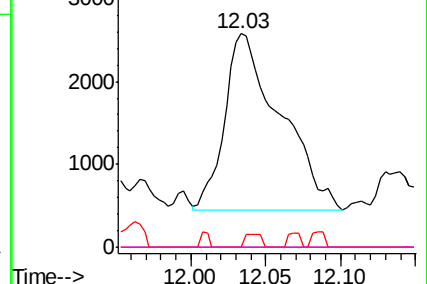
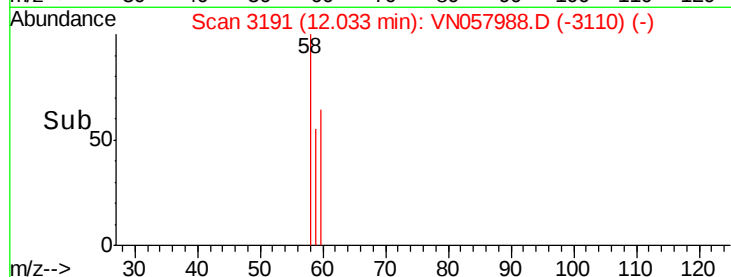


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.400 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057988.D

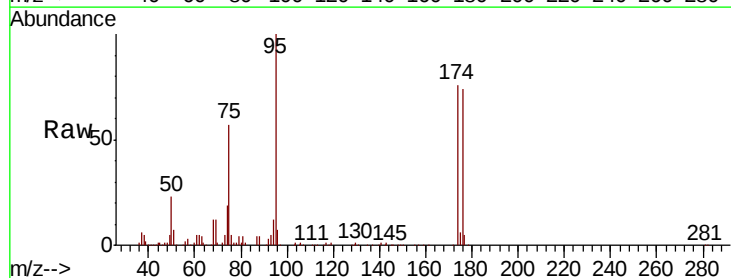
Acq: 12 Sep 2019 22:40

Tgt Ion: 75 Resp: 160919

Ion Ratio Lower Upper

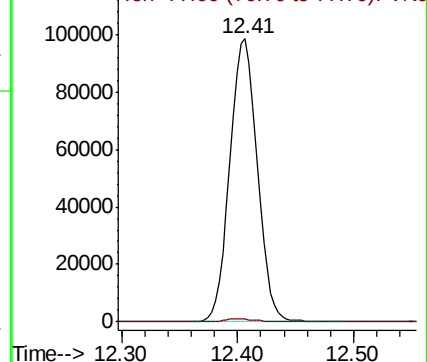
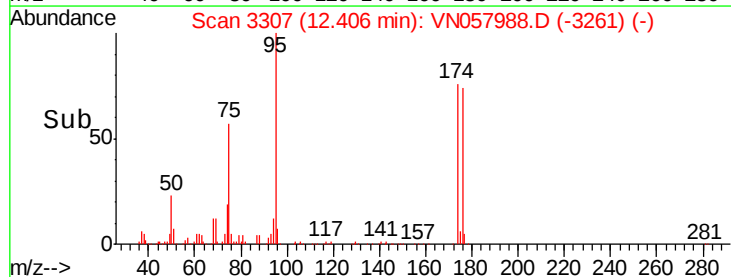
75 100

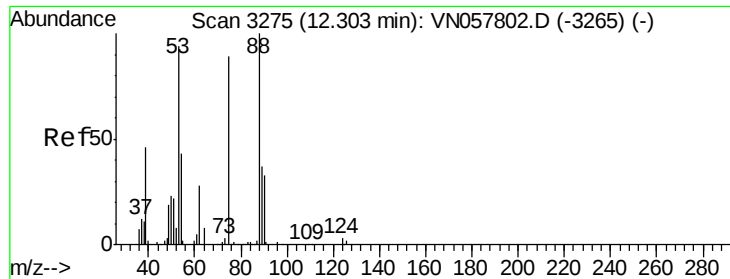
77 1.2 0.0 0.0#



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: 110.496 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057988.D

Acq: 12 Sep 2019 22:40

Instrument :

MSVOA_N

ClientSampled :

T1-4-(1.5)

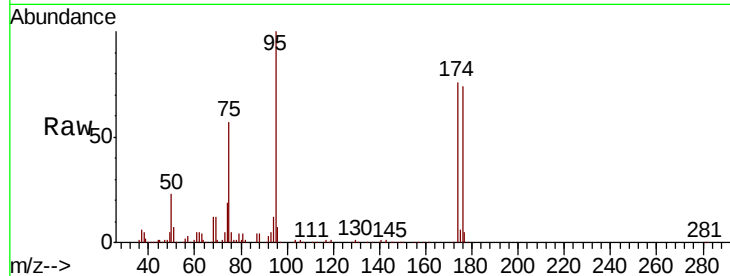
Tgt Ion: 75 Resp: 160919

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

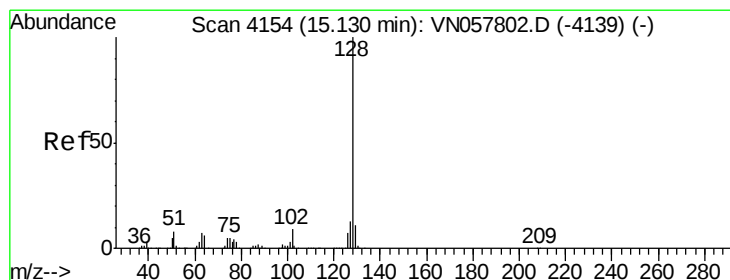
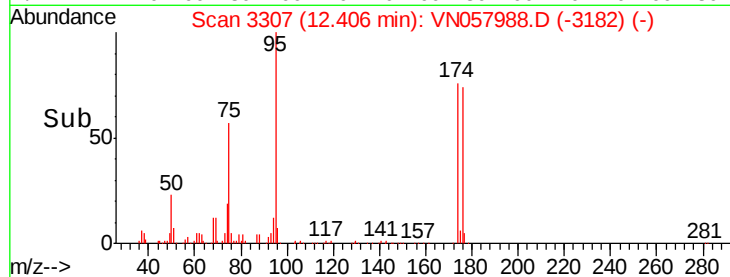
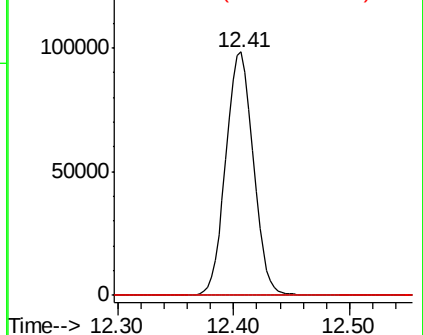
89 0.0 35.3 52.9#



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



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057988.D

Acq: 12 Sep 2019 22:40

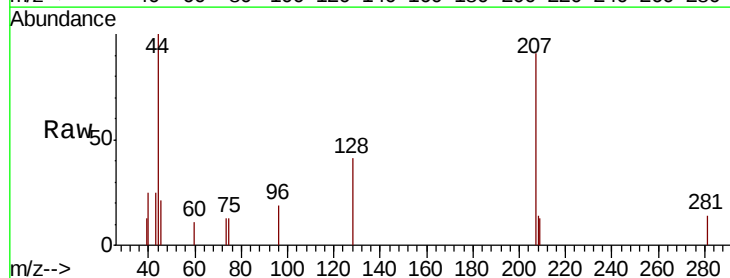
Tgt Ion: 128 Resp: 1166

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

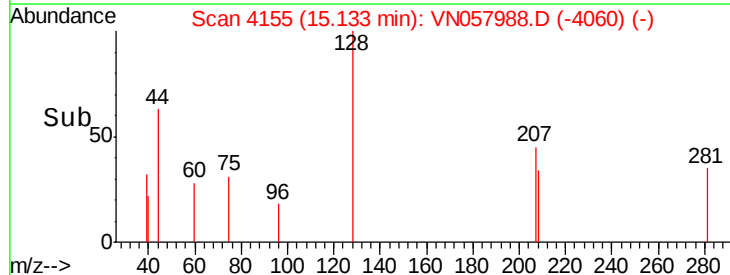
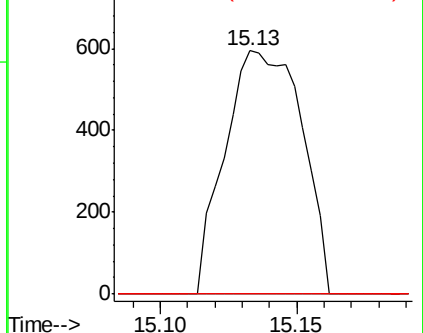
129 0.0 8.6 12.8#

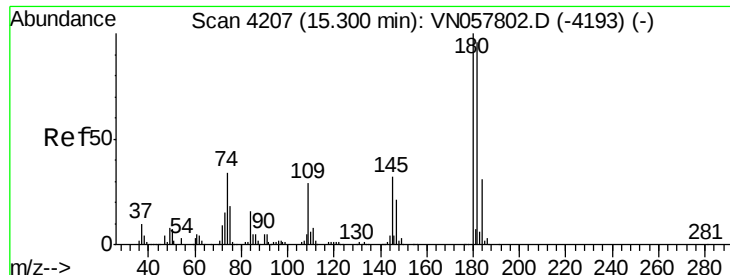


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

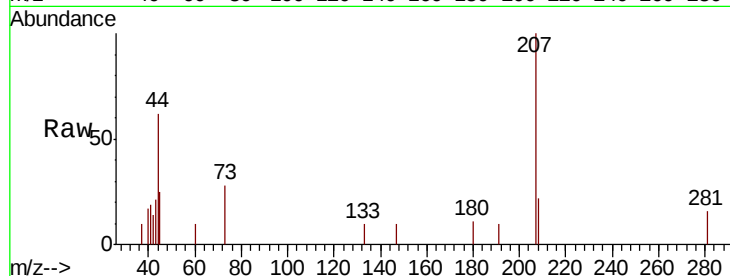




#96
 1,2,3-Trichlorobenzene
 Concen: 1.012 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. 0.01 min
 Lab File: VN057988.D
 Acq: 12 Sep 2019 22:40

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4-(1.5)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.3	144.8#
145	0.0	16.3	48.8#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

