

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057826.D
 Acq On : 10 Sep 2019 1:00
 Operator : JC/SP
 Sample : K4603-34
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:13:20 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	303513	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	524230	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	490210	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	246915	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	338889	55.13	ug/l	0.00
Spiked Amount			Recovery	=	110.26%	
35) Dibromofluoromethane	7.58	113	231264	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
50) Toluene-d8	10.09	98	959459	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	12.40	95	306859	42.86	ug/l	0.00
Spiked Amount			Recovery	=	85.72%	

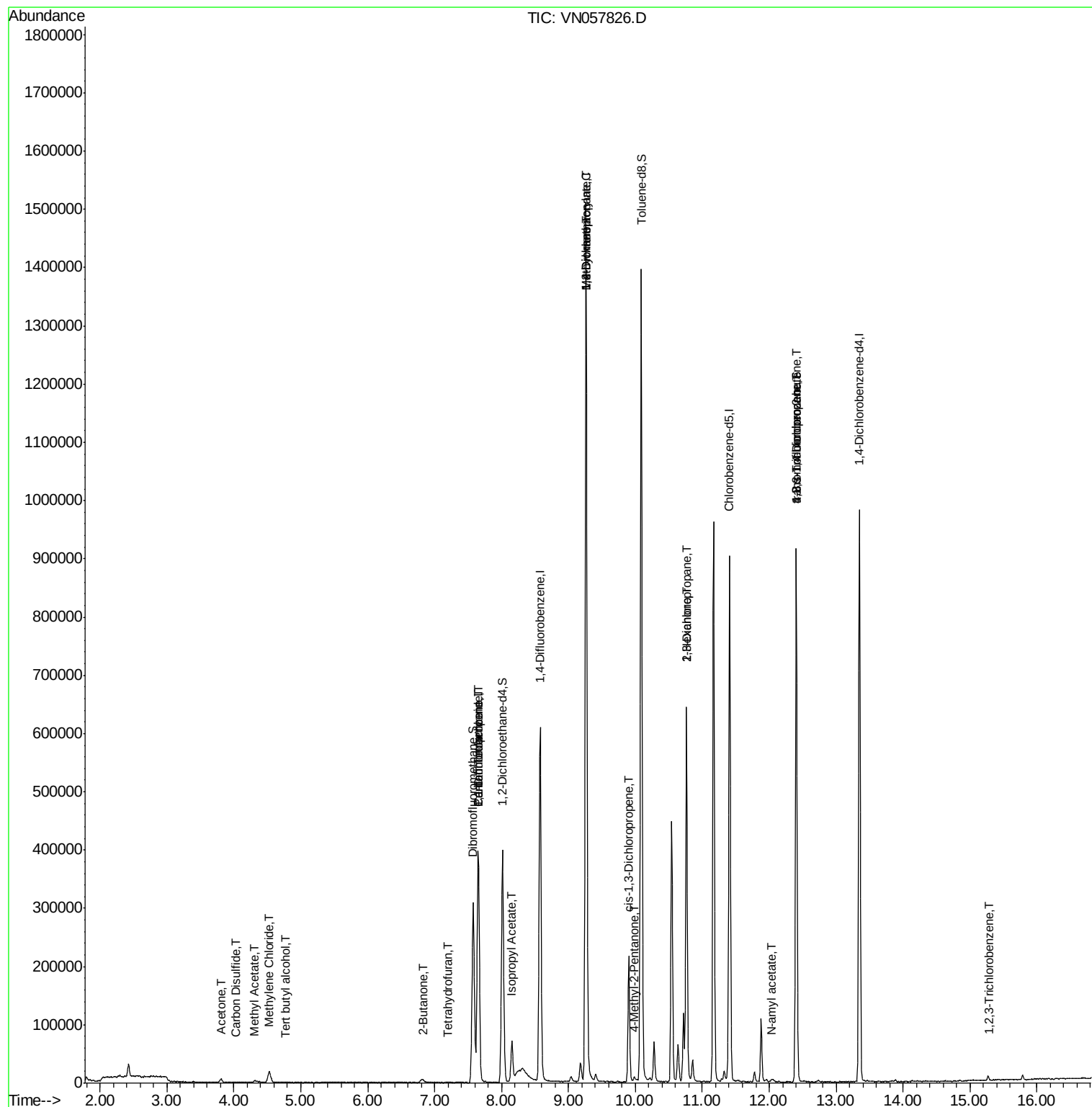
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	158	Below Cal	#	2
11) Tert butyl alcohol	4.77	59	149	0.200	ug/l #	72
16) Acetone	3.81	43	10707	5.313	ug/l	92
17) Carbon Disulfide	4.02	76	291	0.216	ug/l #	75
18) Methyl Acetate	4.31	43	2771	0.516	ug/l #	90
20) Methylene Chloride	4.53	84	13955	2.467	ug/l	90
25) 2-Butanone	6.83	43	1564	0.536	ug/l #	49
29) Tetrahydrofuran	7.20	42	450	0.250	ug/l #	34
31) Cyclohexane	7.66	56	8156	Below Cal	#	35
36) 1,1-Dichloropropene	7.65	75	25726	4.231	ug/l #	51
38) Carbon Tetrachloride	7.65	117	31222	5.625	ug/l #	16
43) Isopropyl Acetate	8.16	43	84165	7.968	ug/l #	88
45) 1,2-Dichloropropane	9.26	63	1619	0.304	ug/l #	44
48) Methyl methacrylate	9.26	41	150932	28.167	ug/l #	45
49) 1,4-Dioxane	9.27	88	156	1.722	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5666	0.906	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	37182	4.976	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	6312	0.750	ug/l #	43
59) 2-Hexanone	10.76	43	98488	21.020	ug/l #	53
74) N-amyl acetate	12.03	43	3626	0.435	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	169721	30.385	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169721	106.926	ug/l #	6
95) Naphthalene	15.14	128	977	Below Cal	#	73
96) 1,2,3-Trichlorobenzene	15.30	180	64	1.011	ug/l #	1

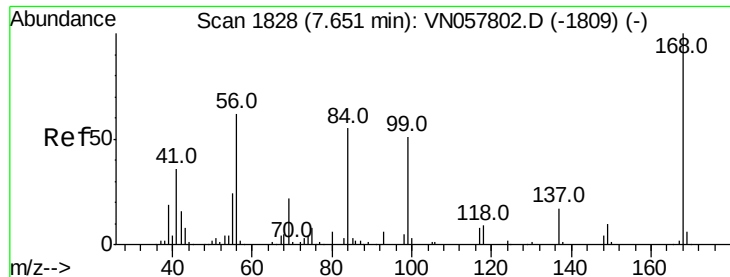
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1828

Delta R.T. 0.00 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Instrument :

MSVOA_N

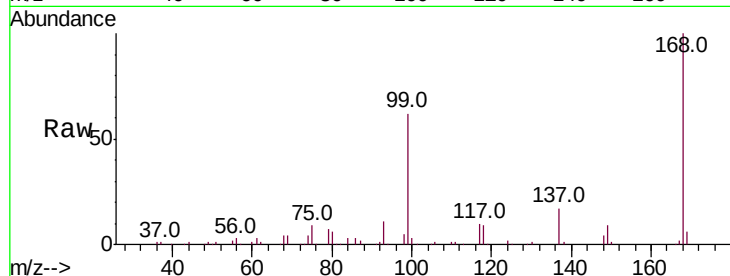
ClientSampled :

Tot Ion:168 Resp: 303513

Ion Ratio Lower Upper

168 100

99 61.8 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

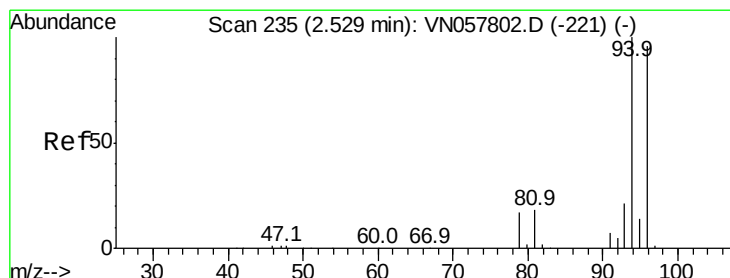
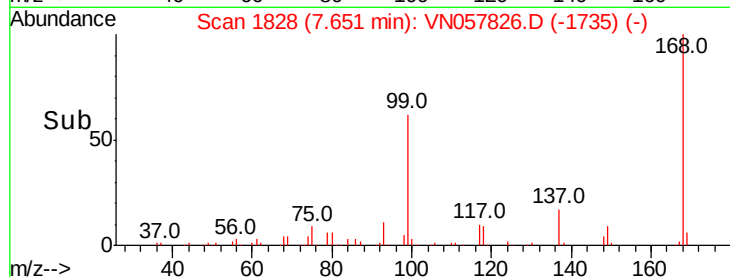
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 243

Delta R.T. 0.03 min

Lab File: VN057826.D

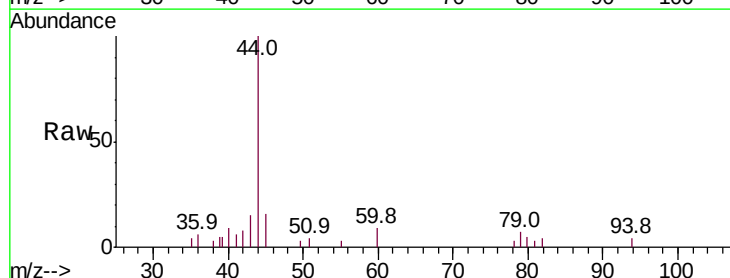
Acq: 10 Sep 2019 1:00

Tgt Ion: 94 Resp: 158

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) (-)

2.55

250

200

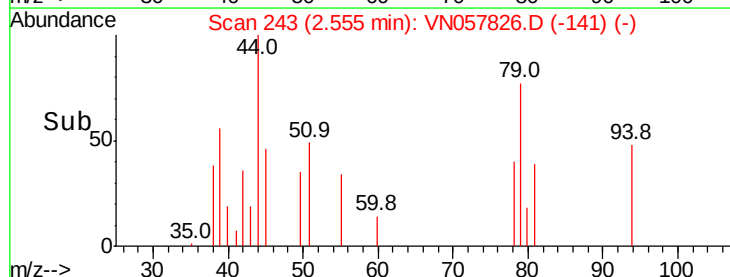
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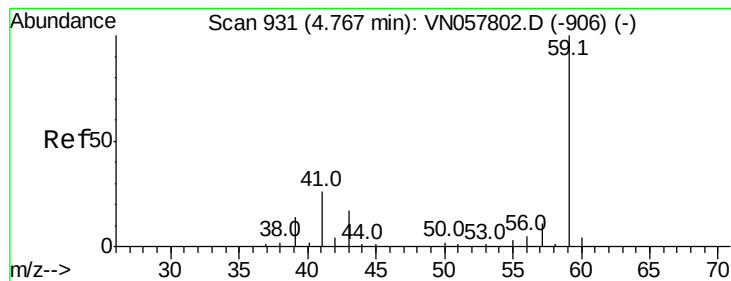
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50

0

Time-->



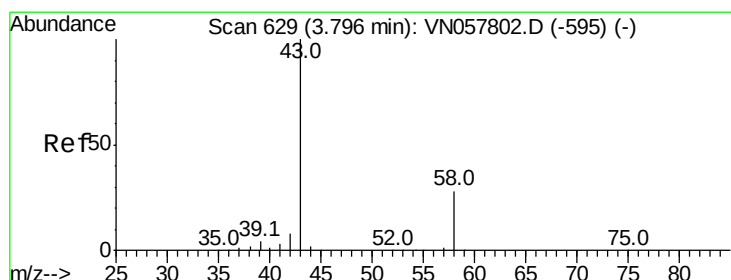
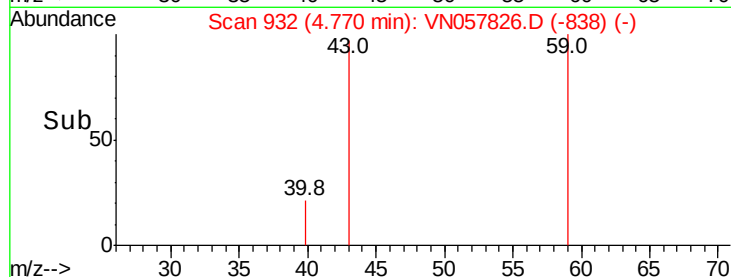
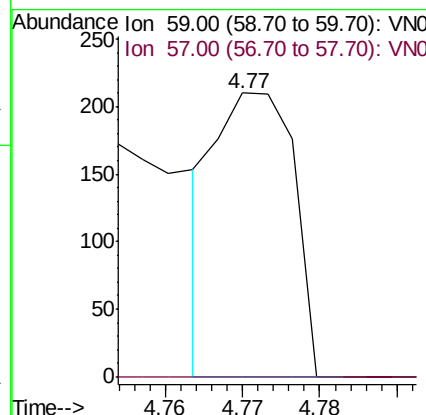
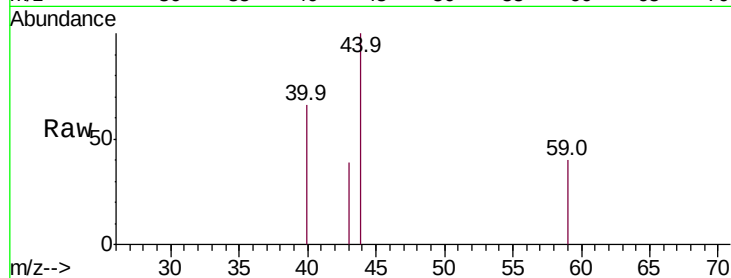


#11

Tert butyl alcohol
 Concen: 0.200 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. 0.00 min
 Lab File: VN057826.D
 Acq: 10 Sep 2019 1:00

Instrument :
 MSVOA_N
 ClientSampled :

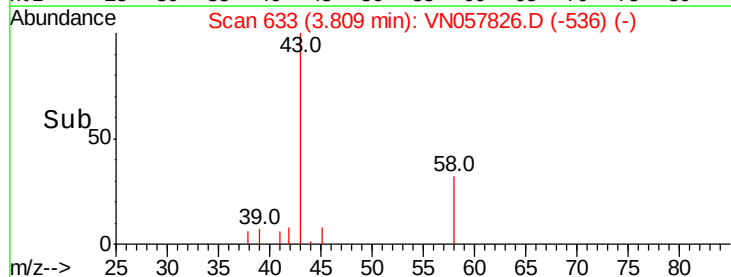
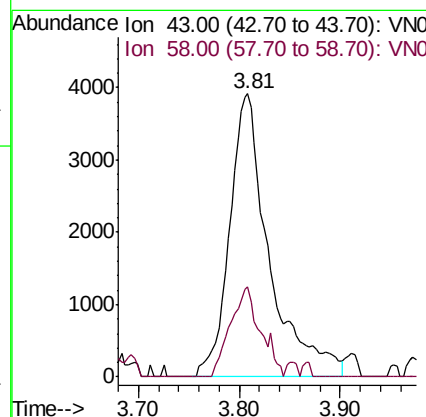
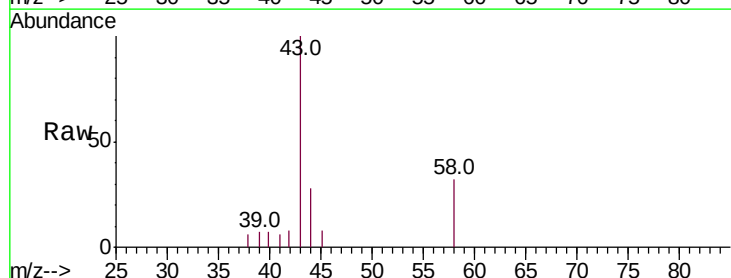
Tot Ion: 59 Resp: 149
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

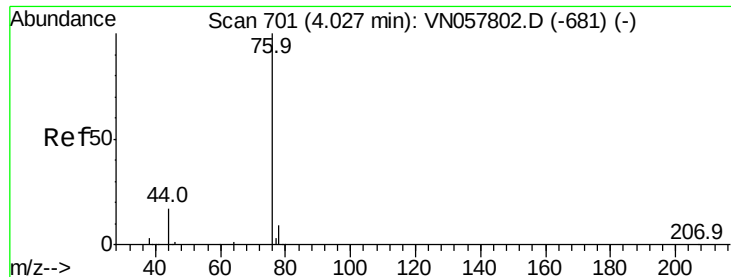


#16

Acetone
 Concen: 5.313 ug/l
 RT: 3.81 min Scan# 633
 Delta R.T. 0.01 min
 Lab File: VN057826.D
 Acq: 10 Sep 2019 1:00

Tgt Ion: 43 Resp: 10707
 Ion Ratio Lower Upper
 43 100
 58 31.9 22.2 33.2

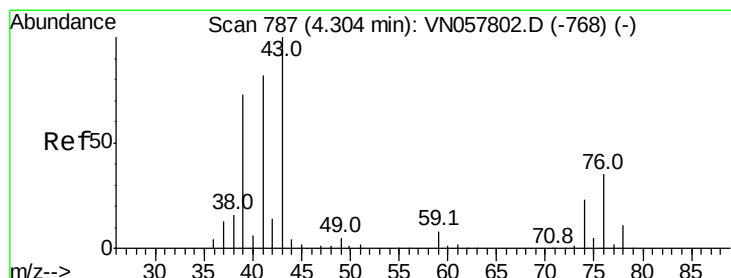
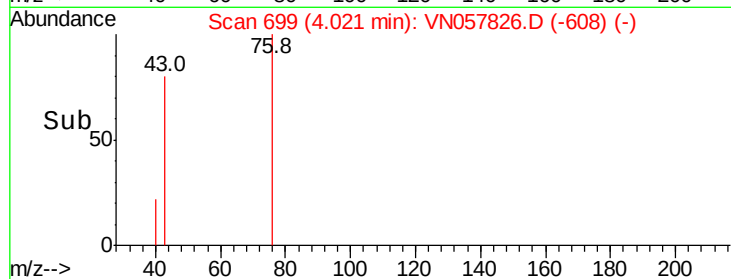
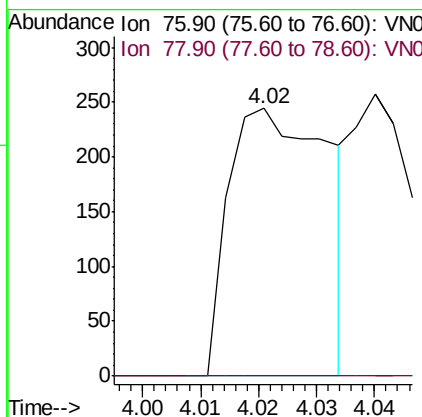
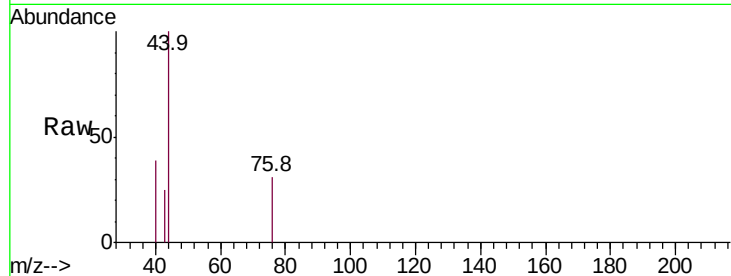




#17
Carbon Disulfide
Concen: 0.216 ug/l
RT: 4.02 min Scan# 699
Delta R.T. -0.01 min
Lab File: VN057826.D
Acq: 10 Sep 2019 1:00

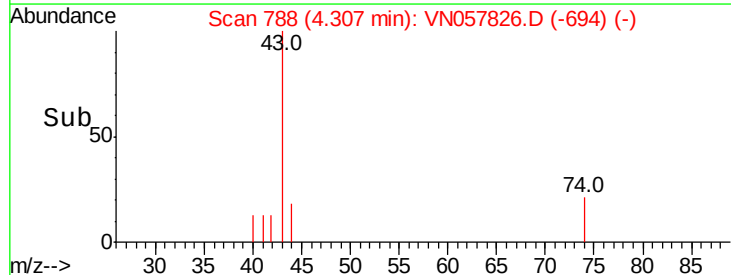
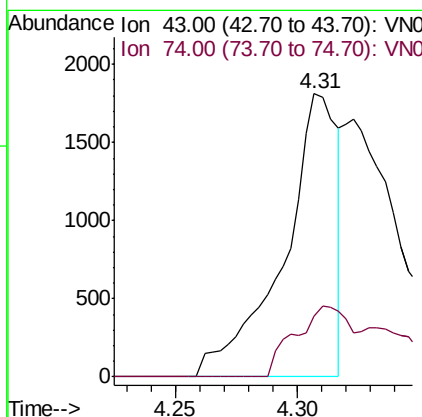
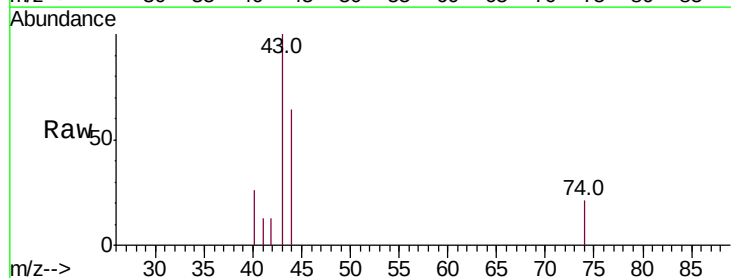
Instrument :
MSVOA_N
ClientSampleId :

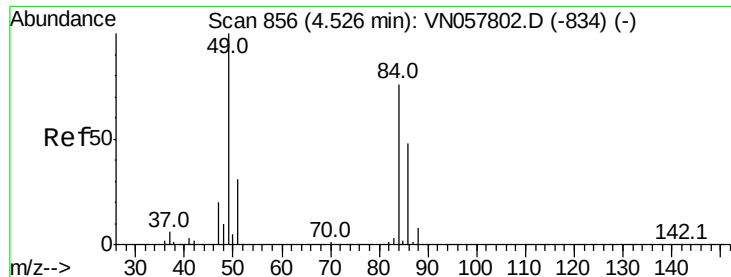
Tot Ion: 76 Resp: 291
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 0.516 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057826.D
Acq: 10 Sep 2019 1:00

Tgt Ion: 43 Resp: 2771
Ion Ratio Lower Upper
43 100
74 27.1 17.9 26.9#

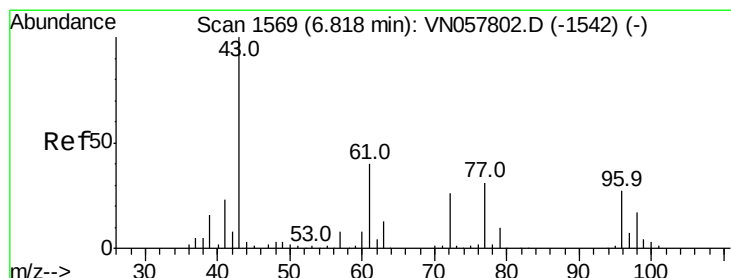
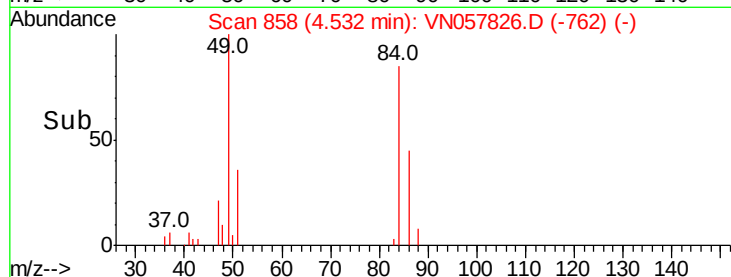
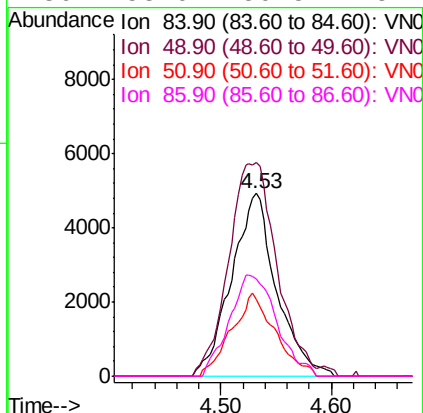
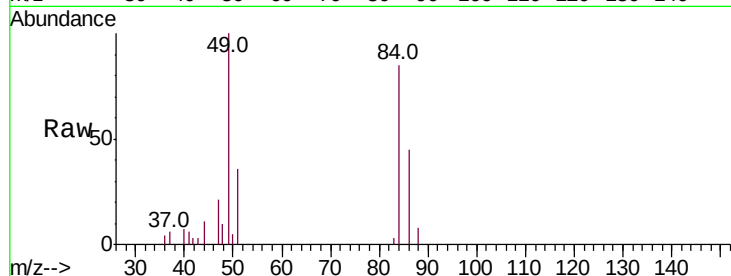




#20
Methvlene Chloride
Concen: 2.467 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057826.D
Acq: 10 Sep 2019 1:00

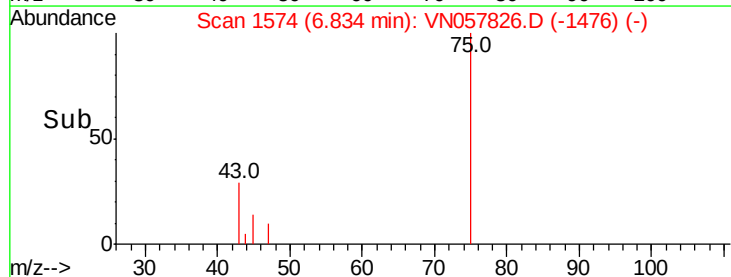
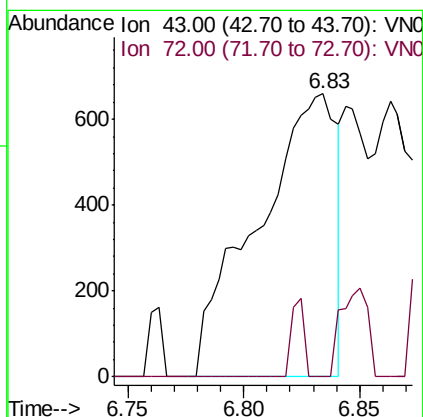
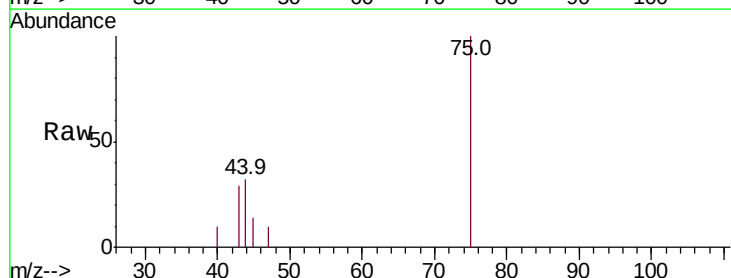
Instrument :
MSVOA_N
ClientSampled :

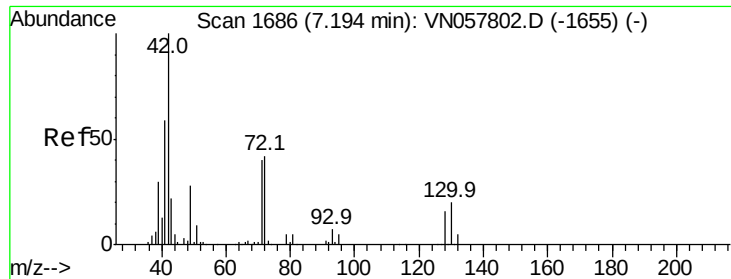
Tot Ion: 84 Resp: 13955
Ion Ratio Lower Upper
84 100
49 117.0 104.8 157.2
51 42.0 33.0 49.4
86 53.0 50.5 75.7



#25
2-Butanone
Concen: 0.536 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN057826.D
Acq: 10 Sep 2019 1:00

Tgt Ion: 43 Resp: 1564
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#

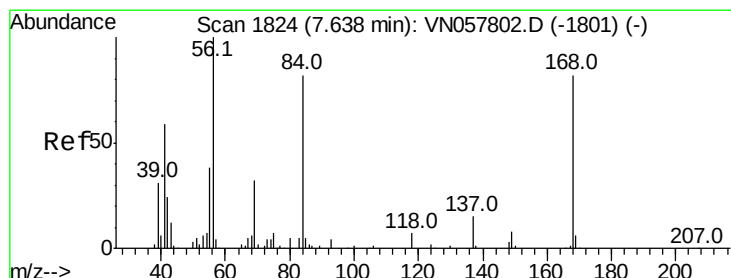
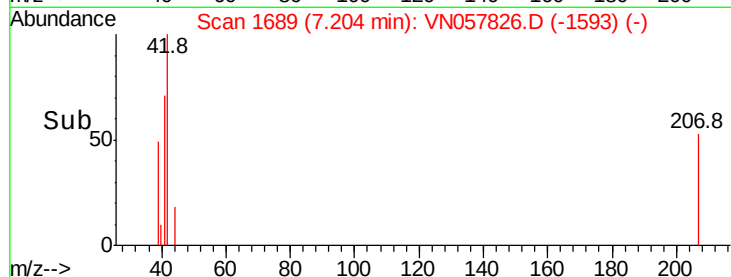
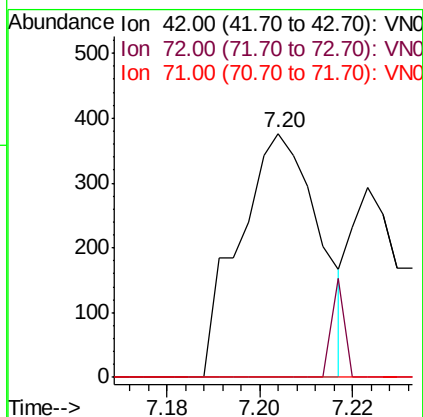
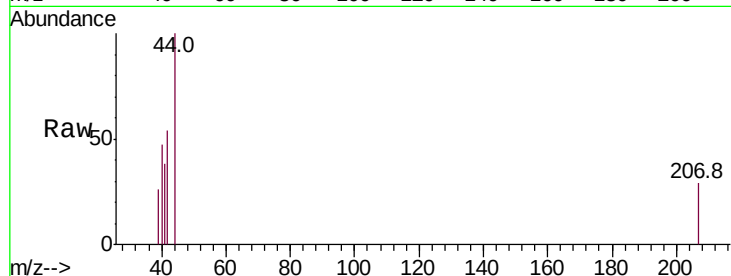




#29
Tetrahydrofuran
Concen: 0.250 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VN057826.D
Acq: 10 Sep 2019 1:00

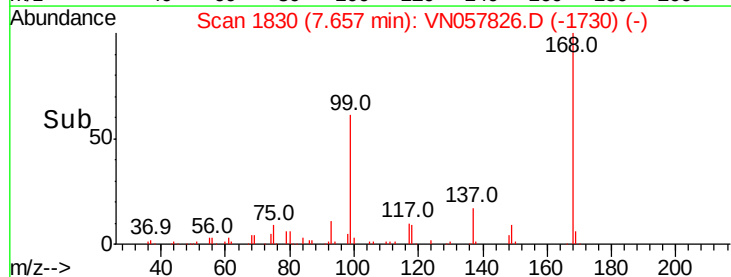
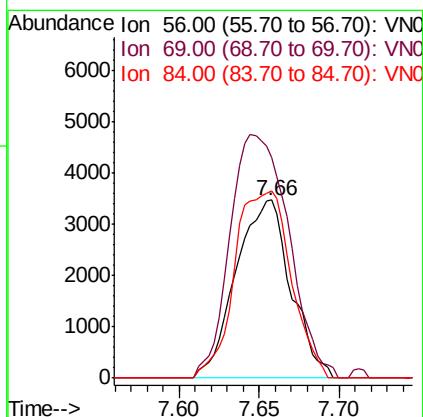
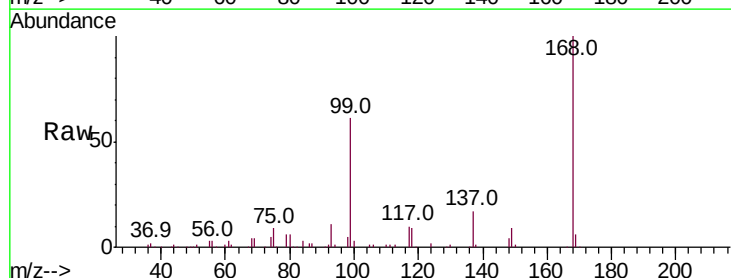
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MSVOA_N
ClientSampleId :

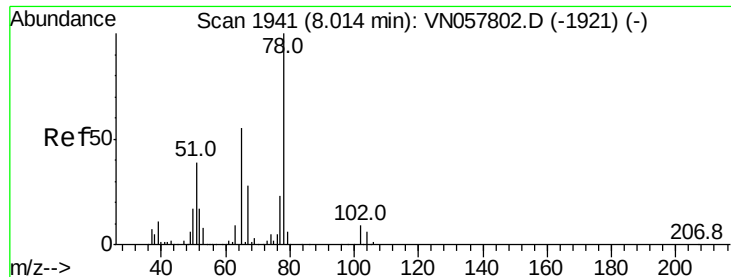
Tot Ion: 42 Resp: 450
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.9 47.9#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1830
Delta R.T. 0.02 min
Lab File: VN057826.D
Acq: 10 Sep 2019 1:00

Tgt Ion: 56 Resp: 8156
Ion Ratio Lower Upper
56 100
69 123.8 25.9 38.9#
84 105.0 65.6 98.4#

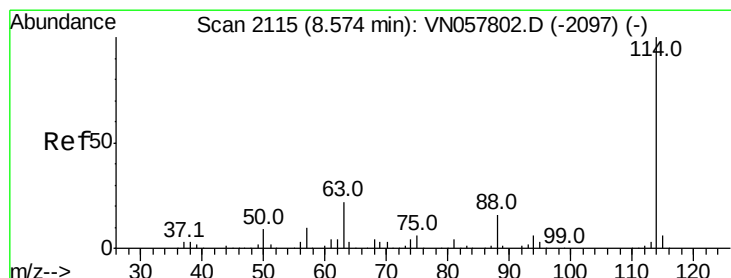
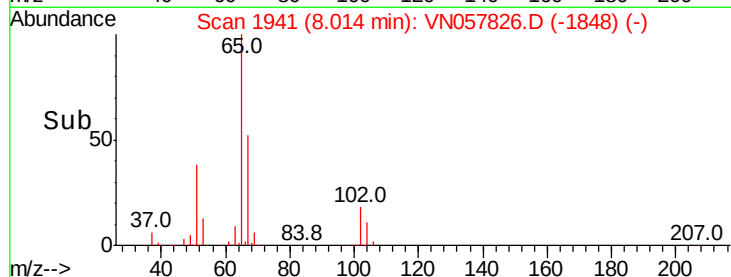
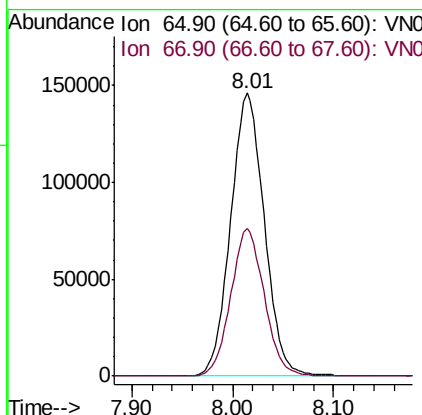
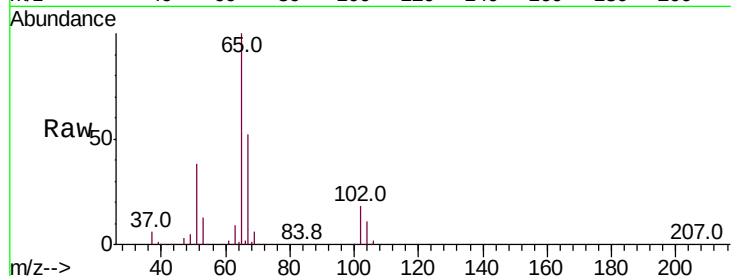




#33
 1,2-Dichloroethane-d4
 Concen: 55.127 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057826.D
 Acq: 10 Sep 2019 1:00

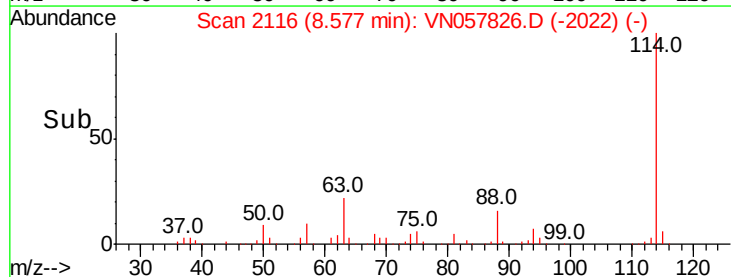
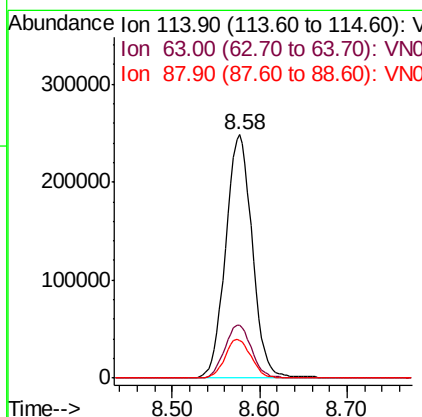
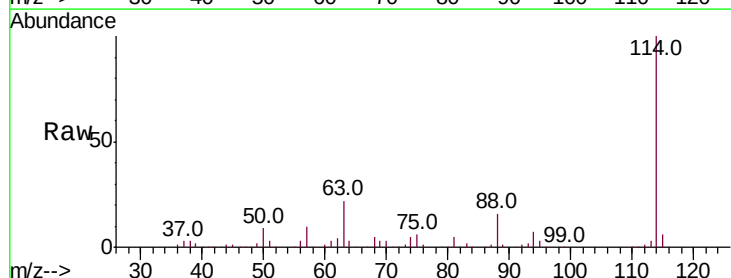
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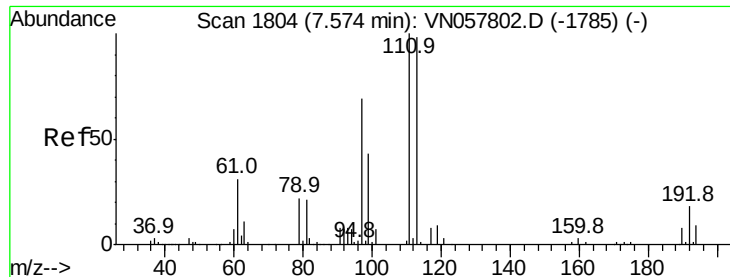
Tot Ion: 65 Resp: 338889
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057826.D
 Acq: 10 Sep 2019 1:00

Tgt Ion: 114 Resp: 524230
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.0
 88 15.6 0.0 31.4

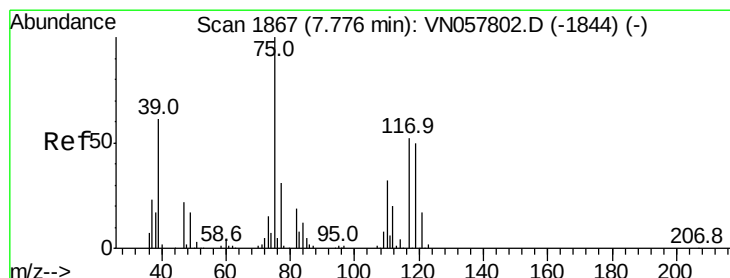
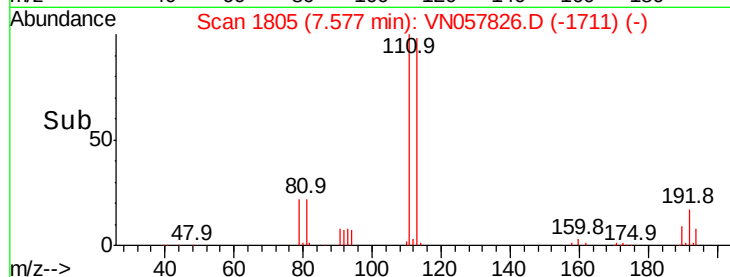
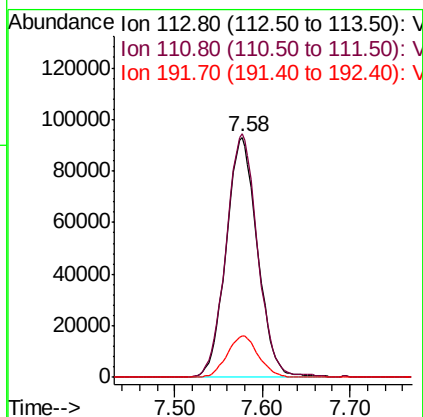
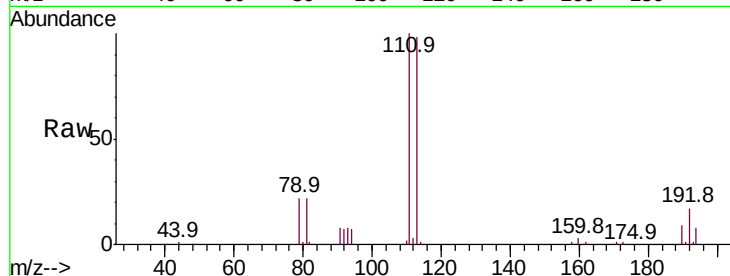




#35
 Dibromofluoromethane
 Concen: 47.797 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057826.D
 Acq: 10 Sep 2019 1:00

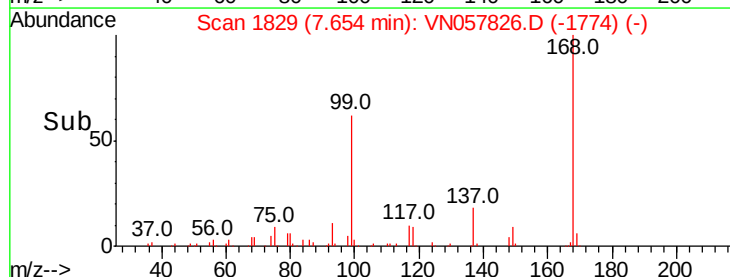
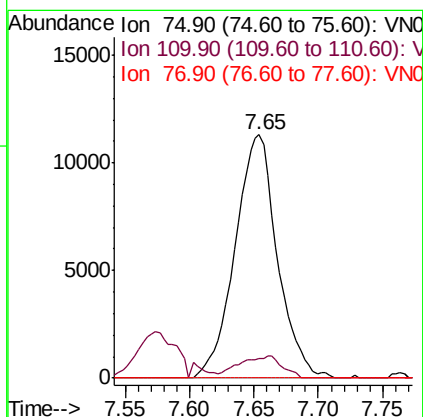
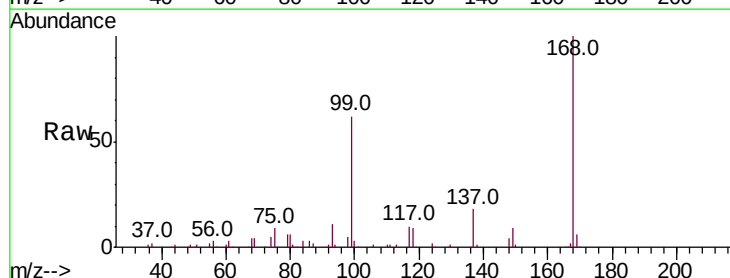
Instrument :
 MSVOA_N
 ClientSampled :

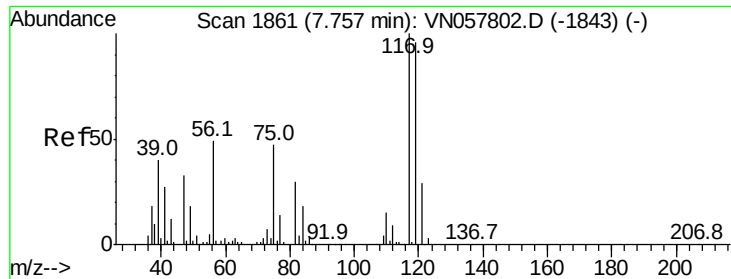
Tot Ion:113 Resp: 231264
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.3 121.9
 192 17.4 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.231 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057826.D
 Acq: 10 Sep 2019 1:00

Tgt Ion: 75 Resp: 25726
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.625 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Instrument :
MSVOA_N
ClientSampleId :

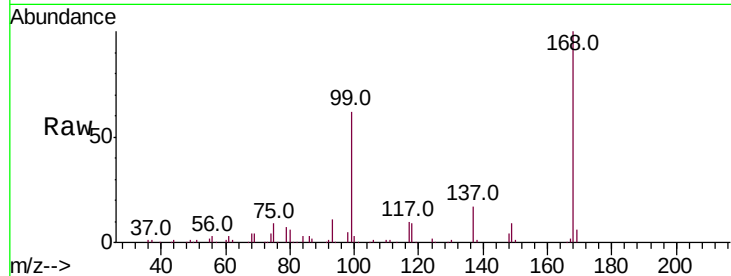
Tot Ion:117 Resp: 31222

Ion Ratio Lower Upper

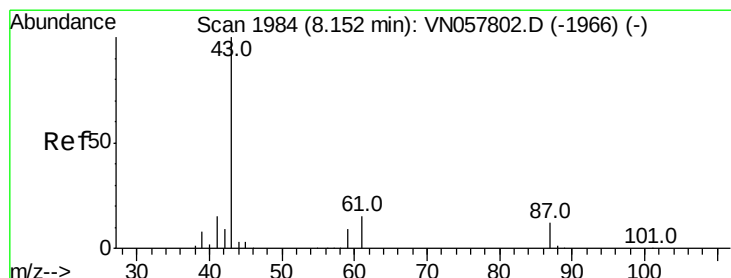
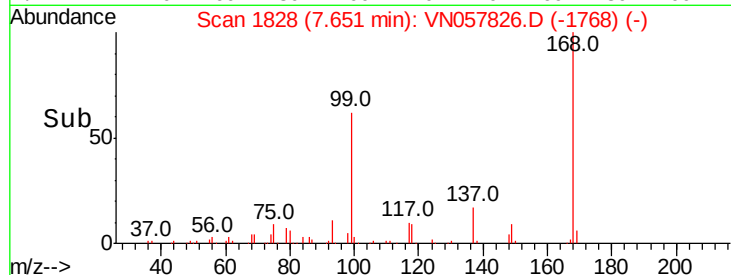
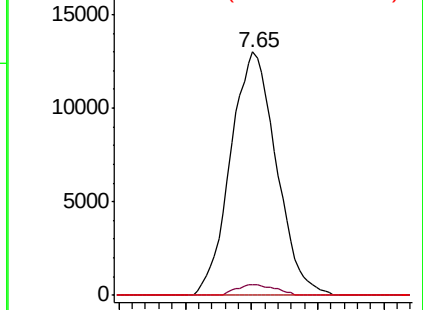
117 100

119 4.6 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: 7.968 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

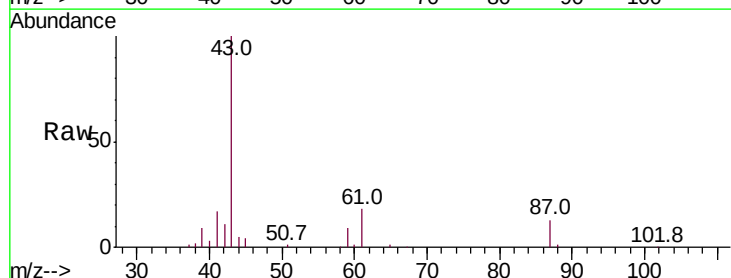
Tgt Ion: 43 Resp: 84165

Ion Ratio Lower Upper

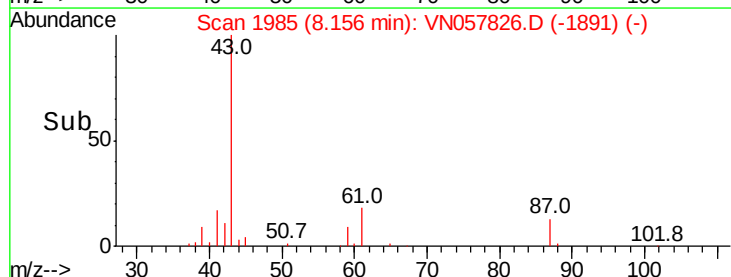
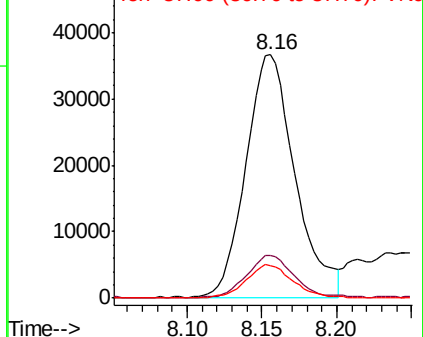
43 100

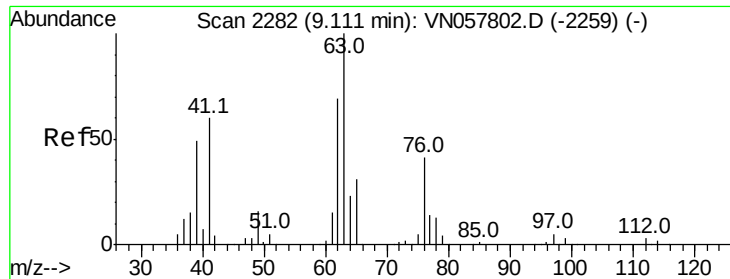
61 17.2 20.1 30.1#

87 12.9 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

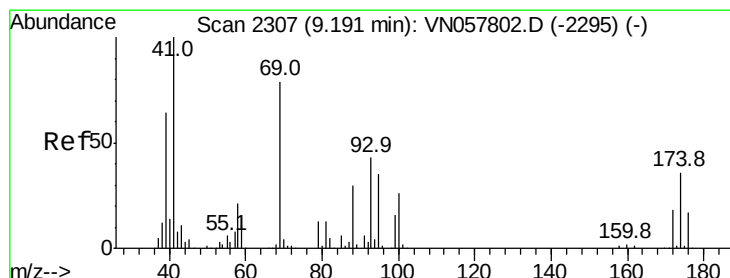
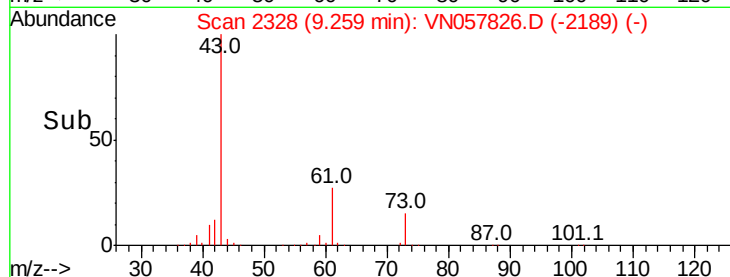
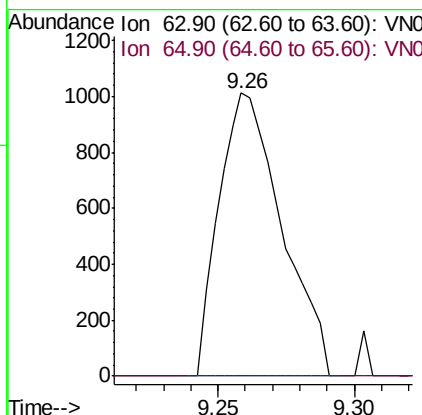
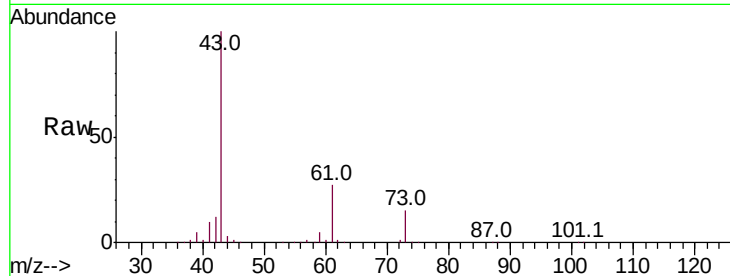




#45
 1,2-Dichloropropane
 Concen: 0.304 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN057826.D
 Acq: 10 Sep 2019 1:00

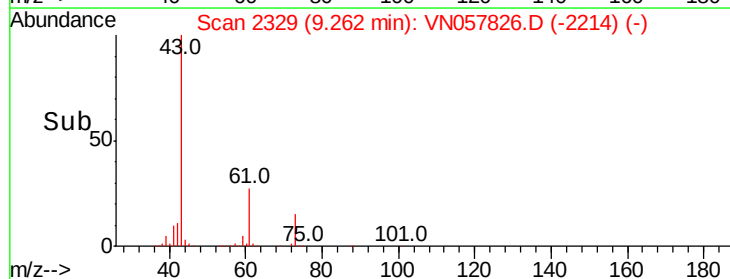
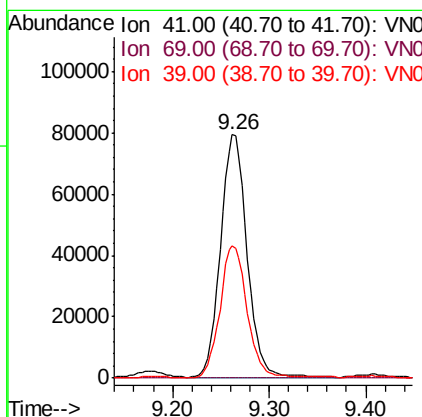
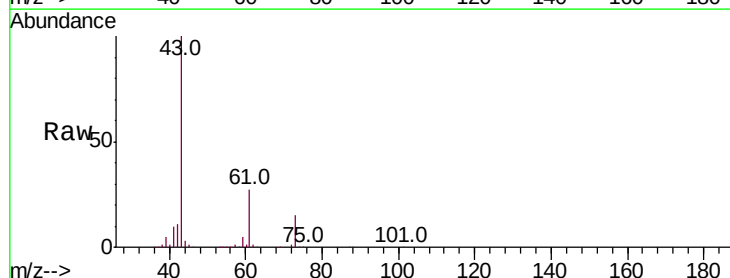
Instrument :
 MSVOA_N
 ClientSampled :

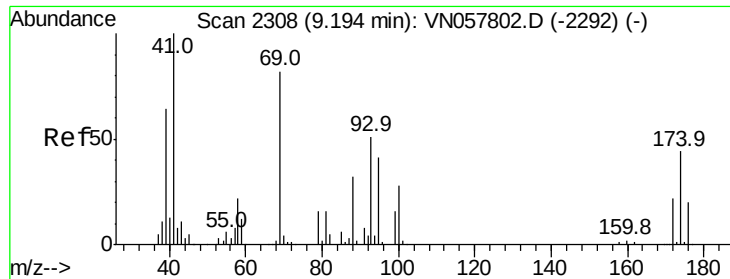
Tot Ion: 63 Resp: 1619
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 28.167 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.07 min
 Lab File: VN057826.D
 Acq: 10 Sep 2019 1:00

Tgt Ion: 41 Resp: 150932
 Ion Ratio Lower Upper
 41 100
 69 0.1 62.7 94.1#
 39 54.8 52.7 79.1





#49

1,4-Dioxane

Concen: 1.722 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Instrument :

MSVOA_N

ClientSampled :

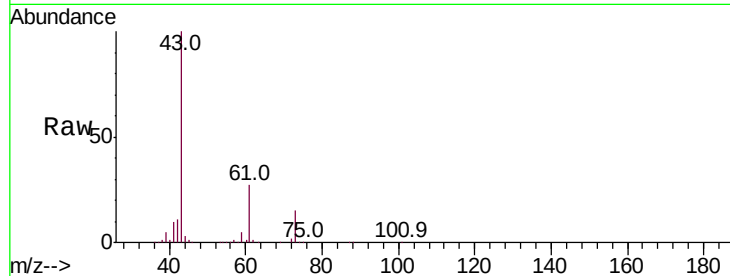
Tot Ion: 88 Resp: 156

Ion Ratio Lower Upper

88 100

43 973155.1 28.5 42.7#

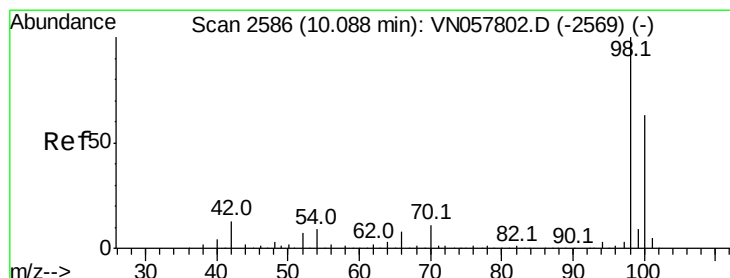
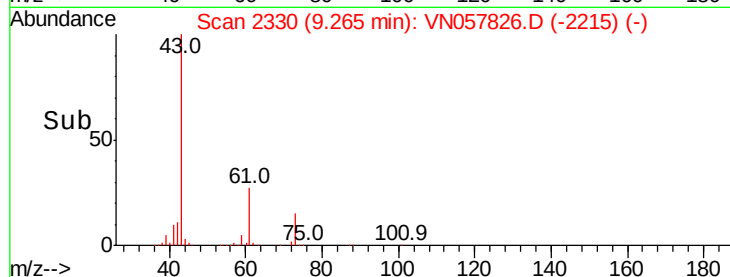
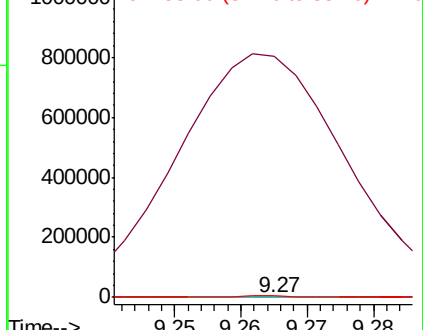
58 4531.4 55.8 83.6#



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: 51.075 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057826.D

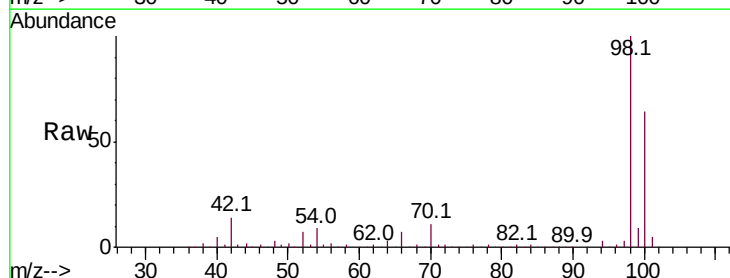
Acq: 10 Sep 2019 1:00

Tgt Ion: 98 Resp: 959459

Ion Ratio Lower Upper

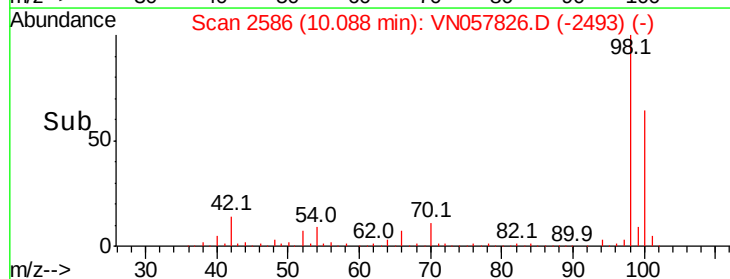
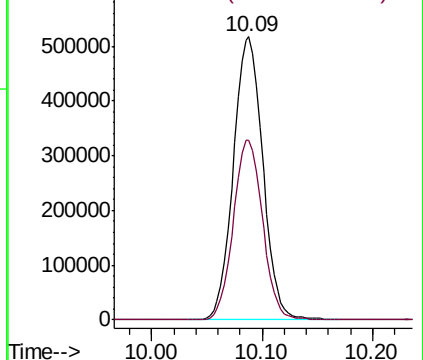
98 100

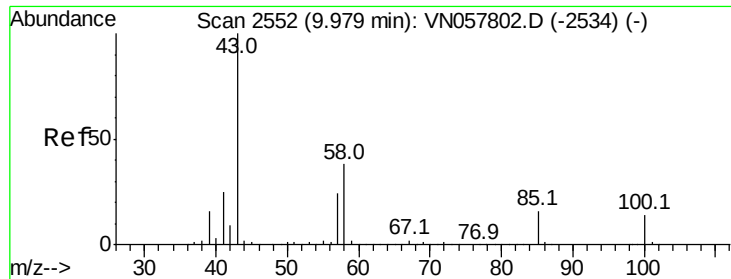
100 63.2 50.3 75.5



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: 0.906 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Instrument :

MSVOA_N

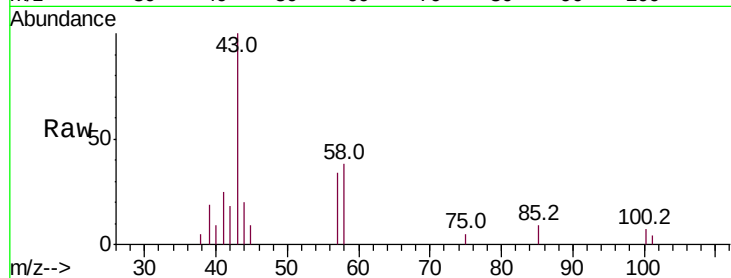
ClientSampled :

Tot Ion: 43 Resp: 5666

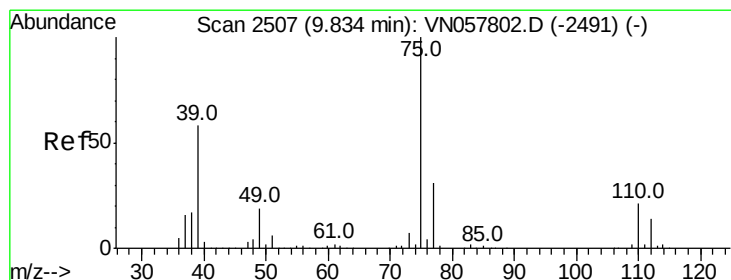
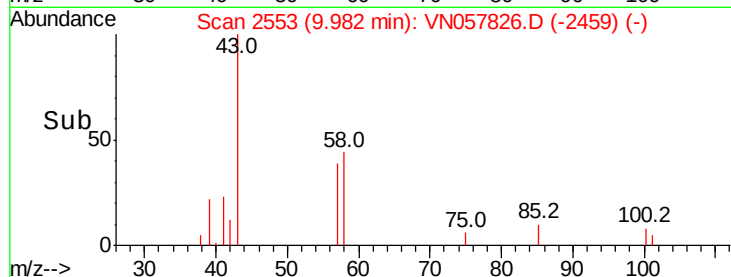
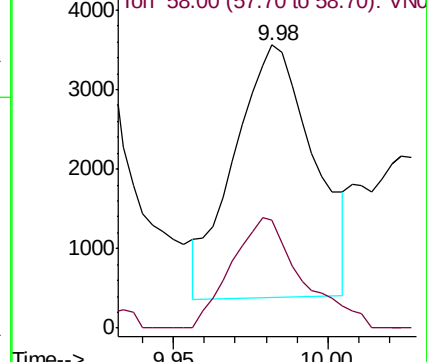
Ion Ratio Lower Upper

43 100

58 39.0 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.976 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

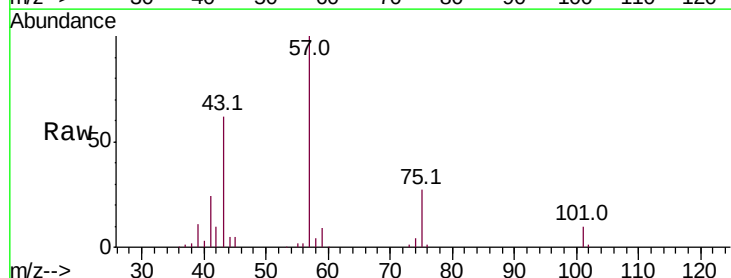
Tgt Ion: 75 Resp: 37182

Ion Ratio Lower Upper

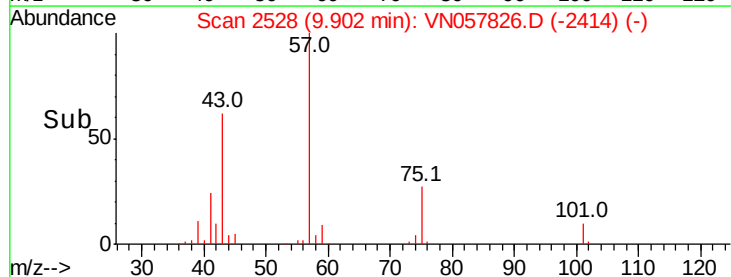
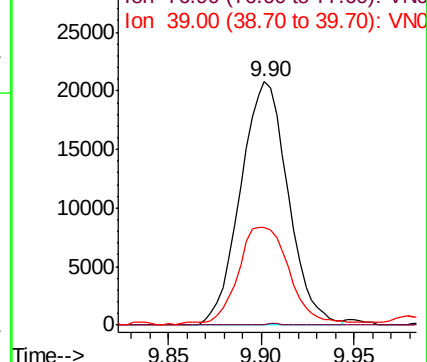
75 100

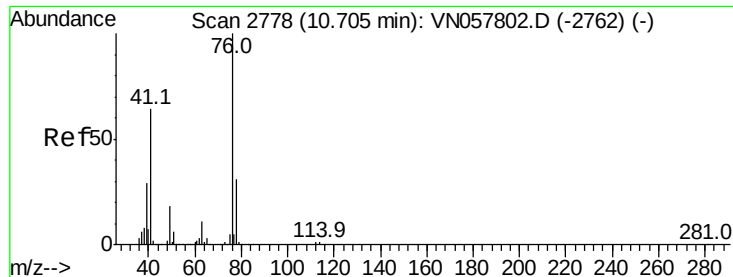
77 0.0 24.8 37.2#

39 38.9 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)





#57

1,3-Dichloropropane

Concen: 0.750 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Instrument :

MSVOA_N

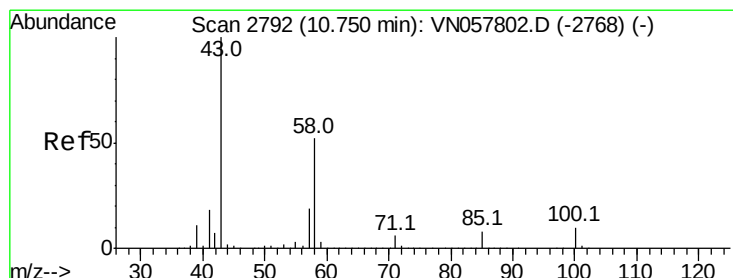
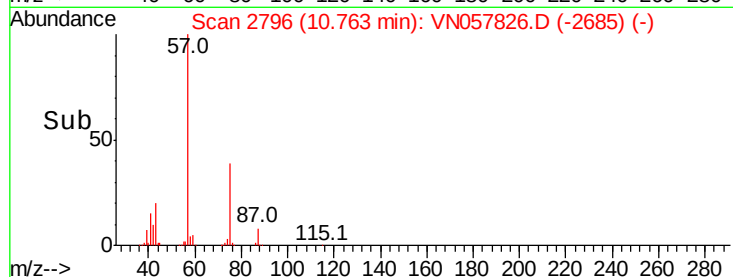
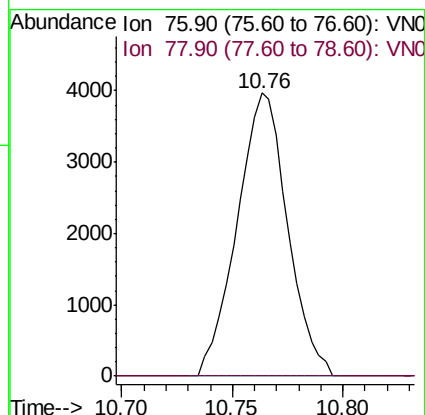
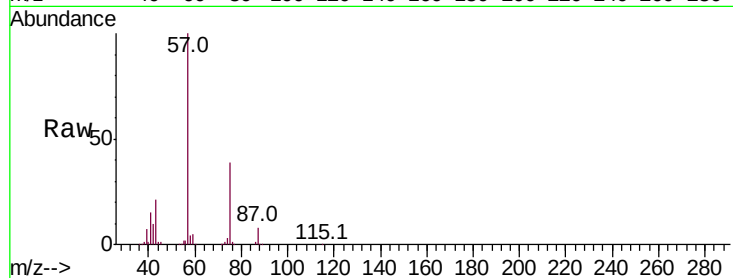
ClientSampled :

Tot Ion: 76 Resp: 6312

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 21.020 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057826.D

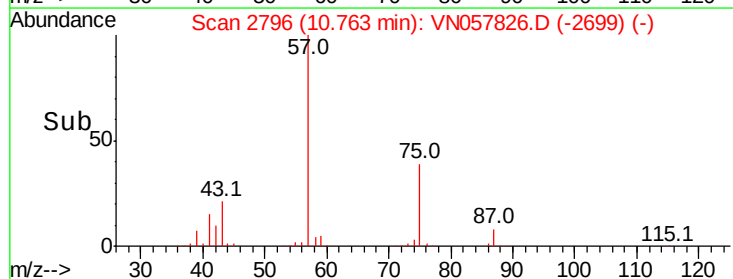
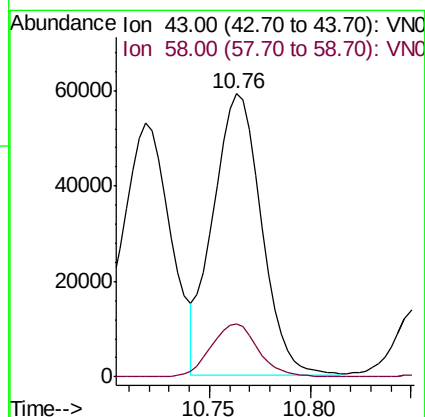
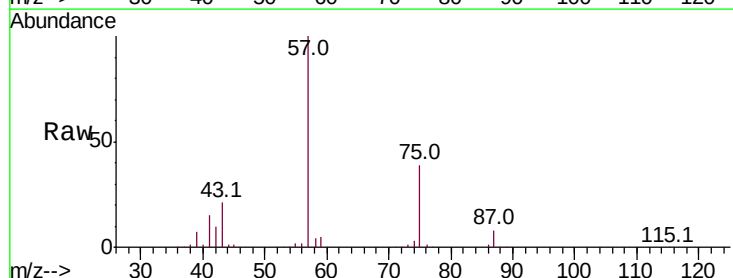
Acq: 10 Sep 2019 1:00

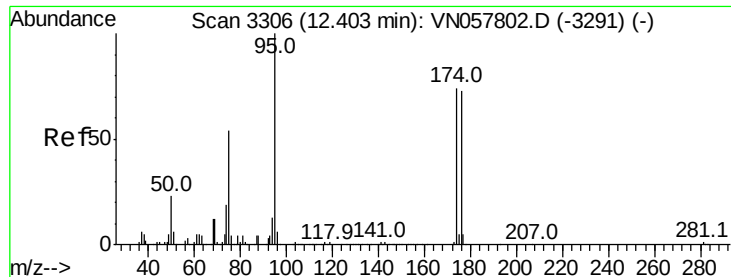
Tgt Ion: 43 Resp: 98488

Ion Ratio Lower Upper

43 100

58 18.5 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 42.864 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Instrument :

MSVOA_N

ClientSampleId :

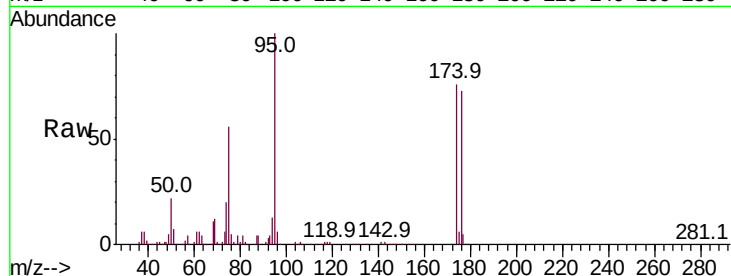
Tot Ion: 95 Resp: 306859

Ion Ratio Lower Upper

95 100

174 76.0 0.0 150.2

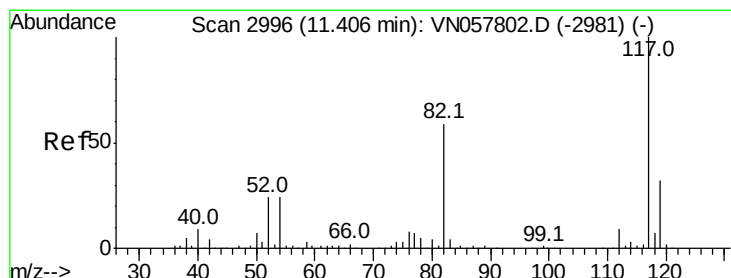
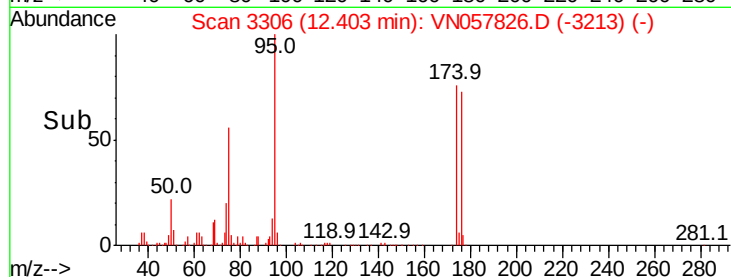
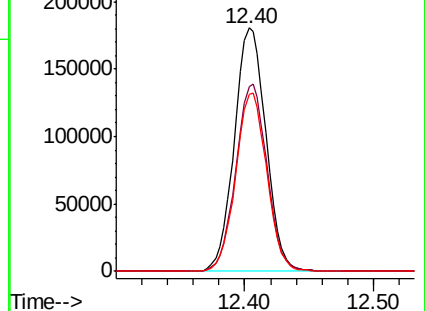
176 72.2 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

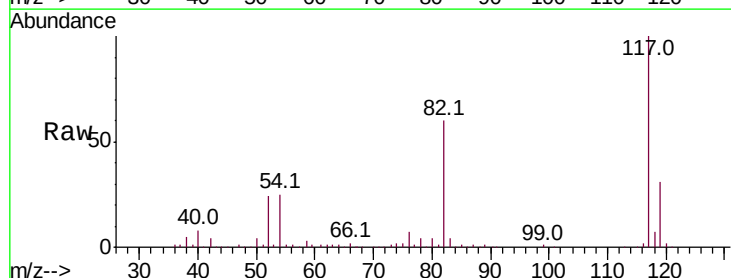
Tgt Ion: 117 Resp: 490210

Ion Ratio Lower Upper

117 100

82 59.7 47.2 70.8

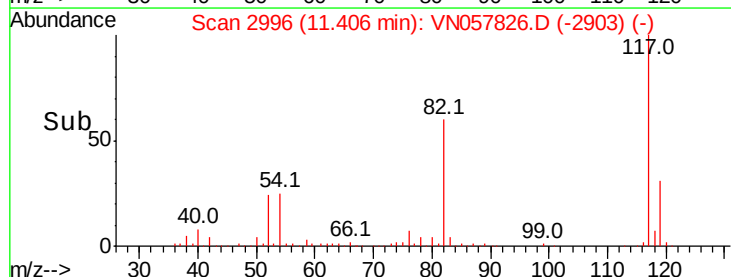
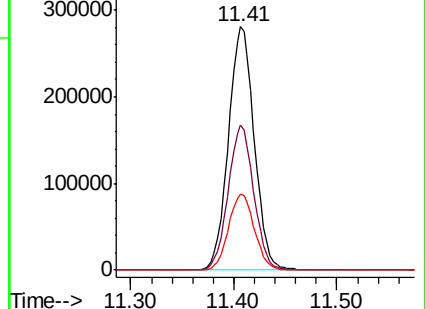
119 31.1 25.3 37.9

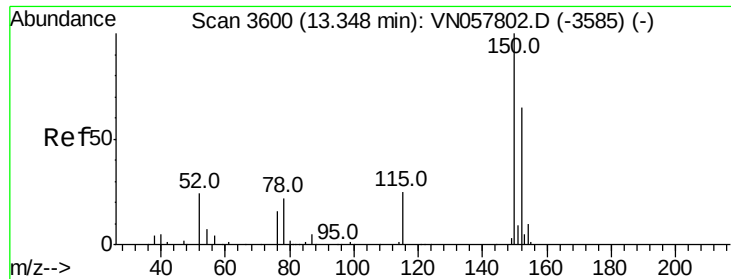


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Instrument :

MSVOA_N

ClientSampleId :

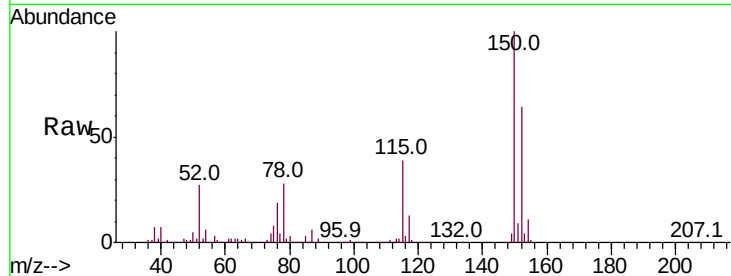
Tot Ion:152 Resp: 246915

Ion Ratio Lower Upper

152 100

115 61.8 30.3 91.0

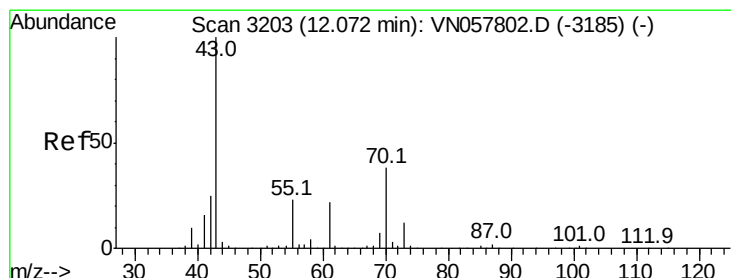
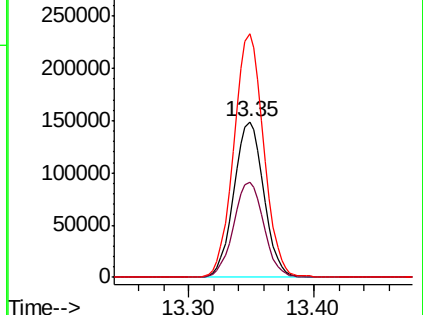
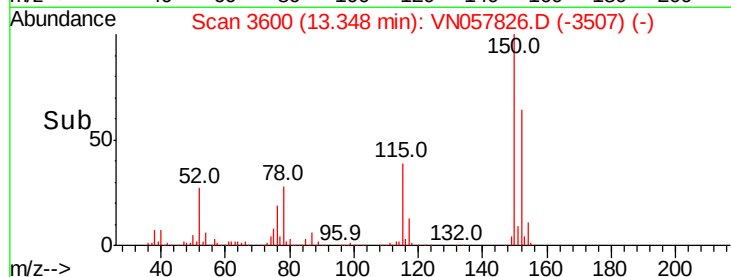
150 156.1 0.0 352.4



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: 0.435 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Tgt Ion: 43 Resp: 3626

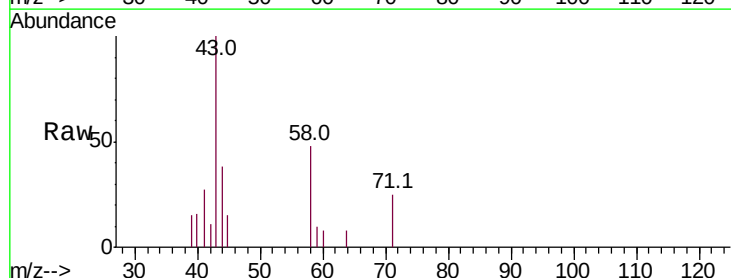
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 8.5 18.6 27.8#

61 0.0 17.4 26.2#

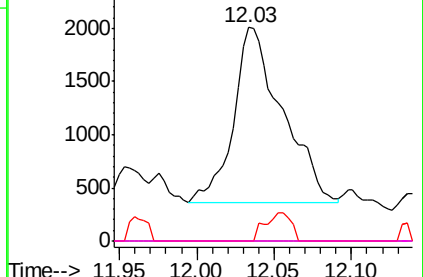
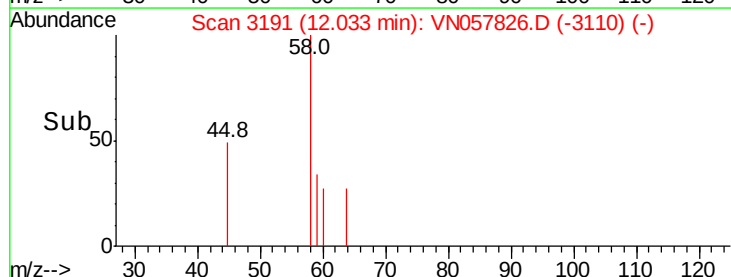


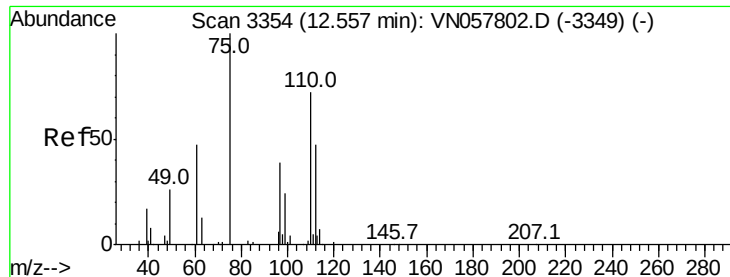
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 30.385 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Instrument :

MSVOA_N

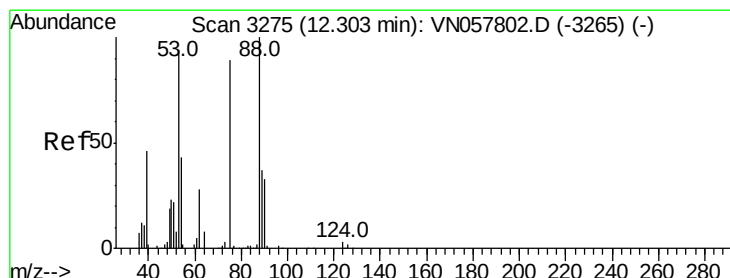
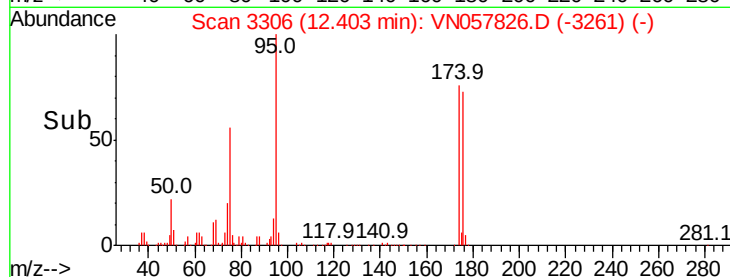
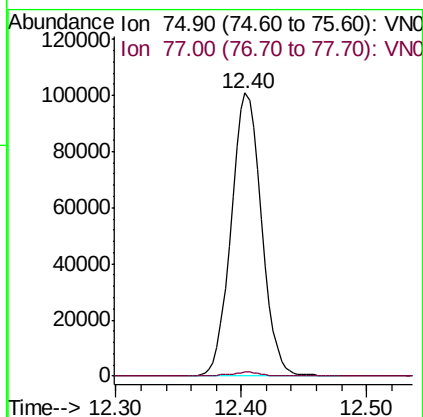
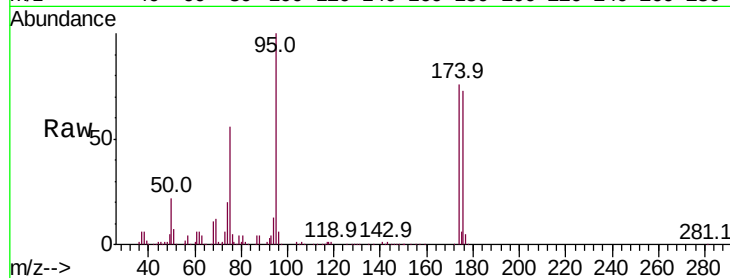
ClientSampleId :

Tot Ion: 75 Resp: 169721

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 106.926 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

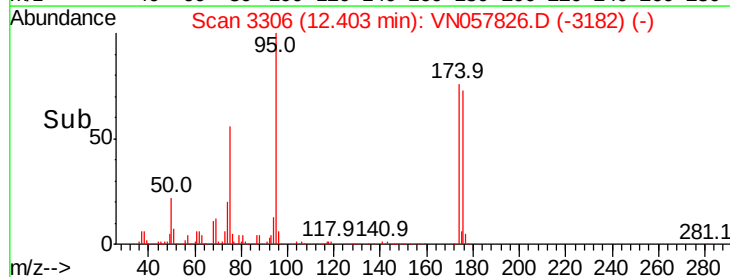
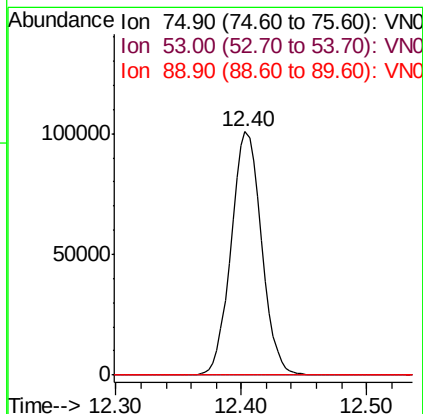
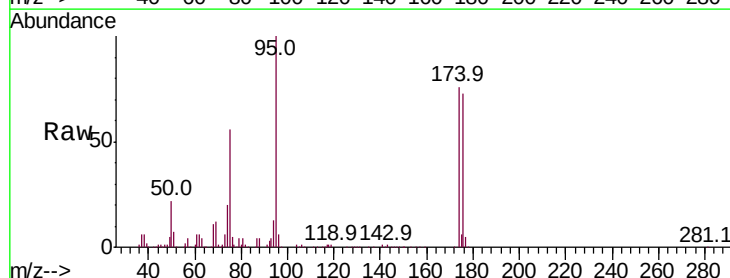
Tgt Ion: 75 Resp: 169721

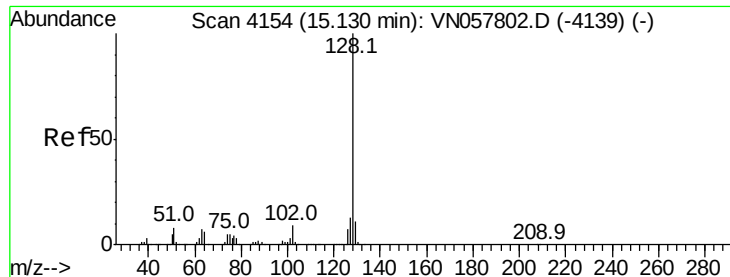
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

Instrument :

MSVOA_N

ClientSampleId :

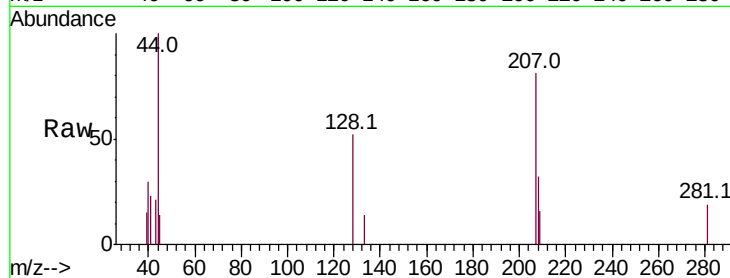
Tot Ion:128 Resp: 977

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

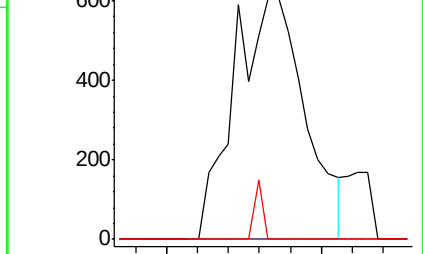
129 3.0 8.6 12.8#



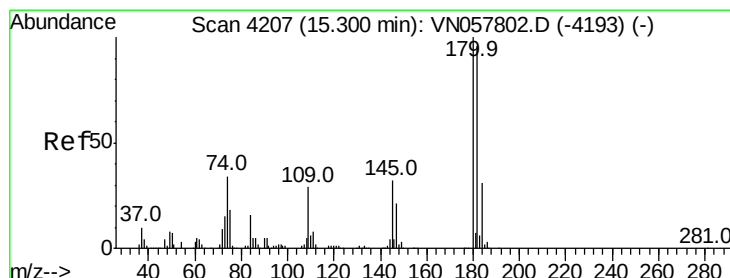
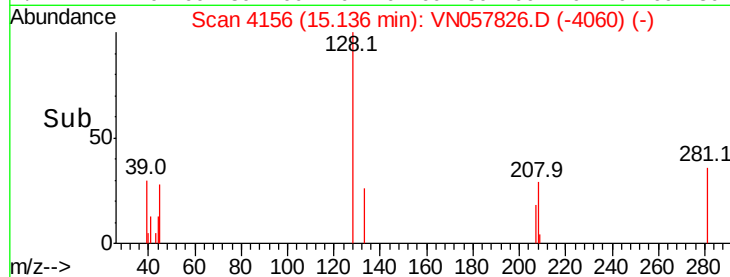
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 1.011 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN057826.D

Acq: 10 Sep 2019 1:00

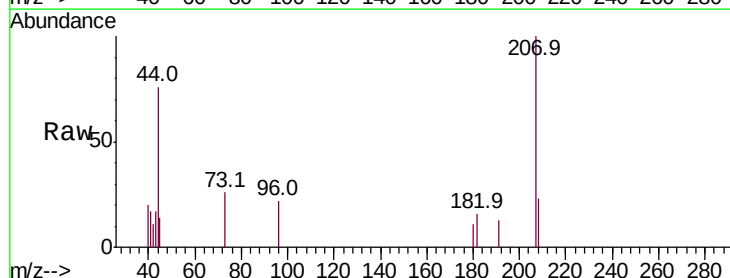
Tgt Ion:180 Resp: 64

Ion Ratio Lower Upper

180 100

182 378.1 48.3 144.8#

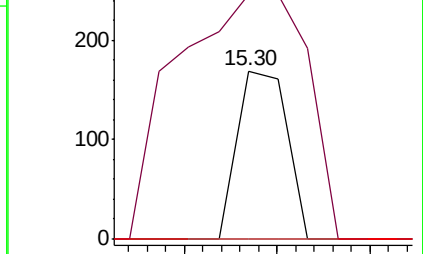
145 0.0 16.3 48.8#



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



Time-->

