

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058038.D
 Acq On : 13 Sep 2019 23:25
 Operator : JC/SP
 Sample : K4694-27
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4-(0)

Quant Time: Sep 14 03:41:11 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

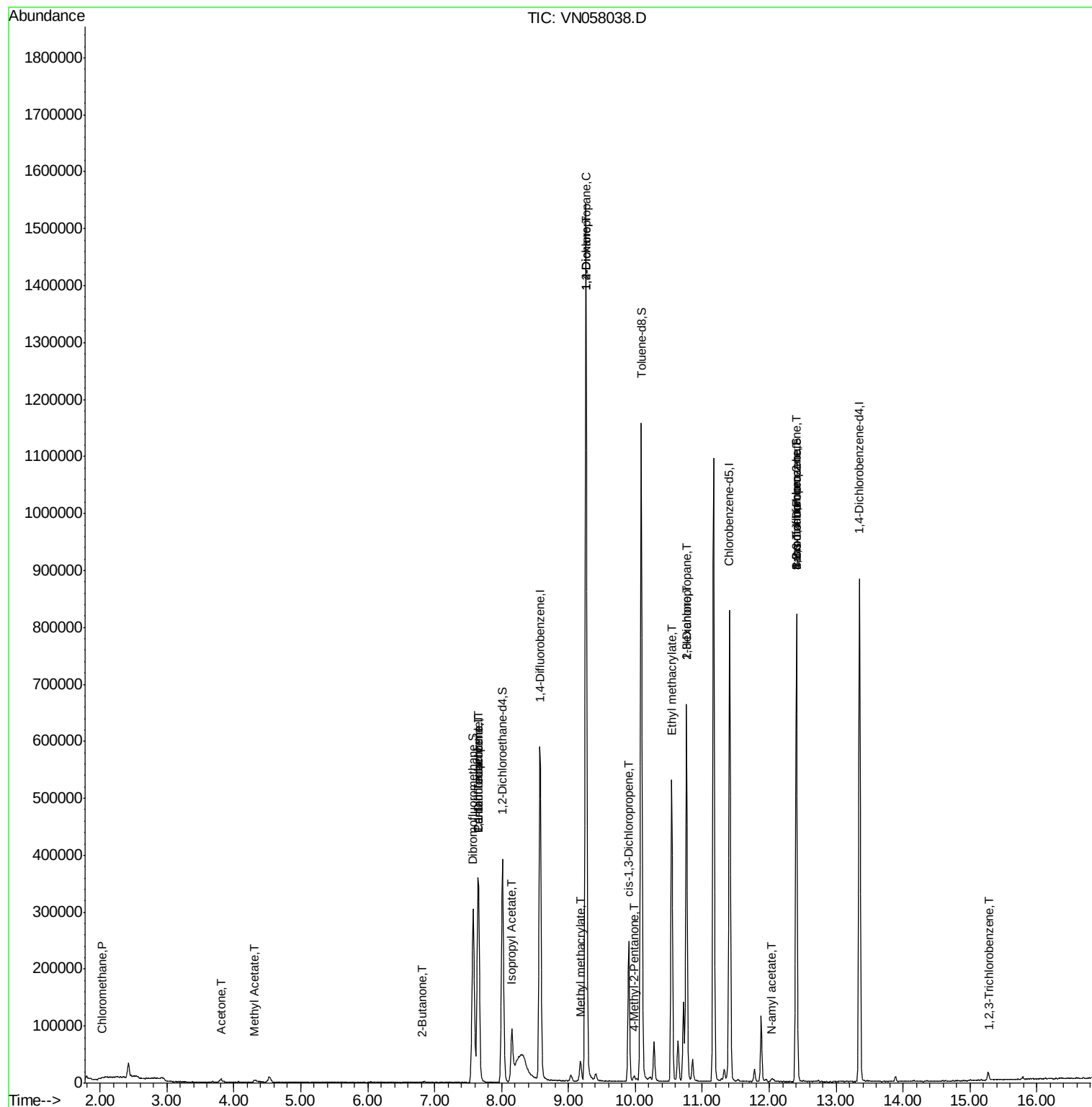
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	283458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	506550	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	452115	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	222235	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	337245	58.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.48%	
35) Dibromofluoromethane	7.58	113	229553	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	
50) Toluene-d8	10.08	98	796766	43.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.78%	
62) 4-Bromofluorobenzene	12.41	95	273989	39.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.22%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	939	0.235 ug/l	#	85
5) Bromomethane	2.56	94	219	Below Cal	#	2
16) Acetone	3.81	43	10500	5.579 ug/l	#	88
18) Methyl Acetate	4.31	43	3381	0.674 ug/l		98
20) Methylene Chloride	4.52	84	4041	Below Cal		95
25) 2-Butanone	6.81	43	748	0.275 ug/l	#	49
31) Cyclohexane	7.65	56	7808	Below Cal	#	31
36) 1,1-Dichloropropene	7.65	75	25545	4.348 ug/l	#	50
38) Carbon Tetrachloride	7.65	117	28791	5.368 ug/l	#	15
43) Isopropyl Acetate	8.15	43	117897	11.551 ug/l	#	84
45) 1,2-Dichloropropane	9.26	63	1728	0.336 ug/l	#	44
48) Methyl methacrylate	9.17	41	6356	1.228 ug/l	#	13
49) 1,4-Dioxane	9.26	88	29	0.331 ug/l	#	1
51) 4-Methyl-2-Pentanone	9.98	43	7395	1.224 ug/l	#	68
54) cis-1,3-Dichloropropene	9.90	75	43383	6.009 ug/l	#	66
56) Ethyl methacrylate	10.54	69	2157	0.304 ug/l	#	1
57) 1,3-Dichloropropane	10.76	76	6888	0.847 ug/l	#	43
59) 2-Hexanone	10.76	43	100816	22.268 ug/l	#	52
71) Bromoform	12.40	173	1025	0.400 ug/l	#	1
74) N-amyl acetate	12.04	43	3389	0.452 ug/l	#	46
76) 1,2,3-Trichloropropane	12.40	75	145138	28.870 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	145138	101.593 ug/l	#	6
95) Naphthalene	15.13	128	816	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.29	180	71	1.014 ug/l	#	54

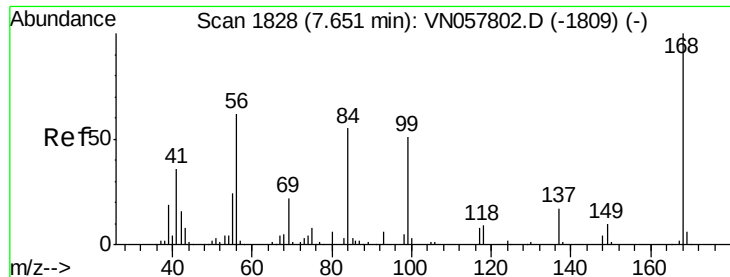
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058038.D

Acq: 13 Sep 2019 23:25

Instrument :

MSVOA_N

ClientSampled :

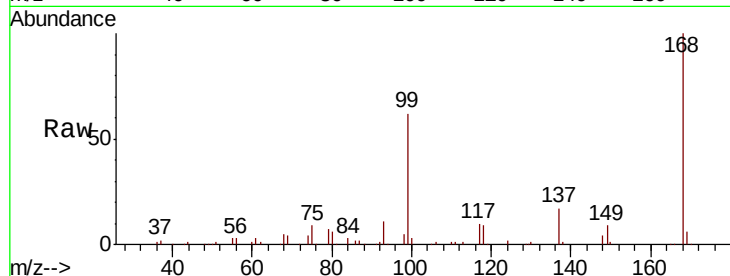
T1-4-(0)

Tgt Ion:168 Resp: 283458

Ion Ratio Lower Upper

168 100

99 61.7 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) (-)

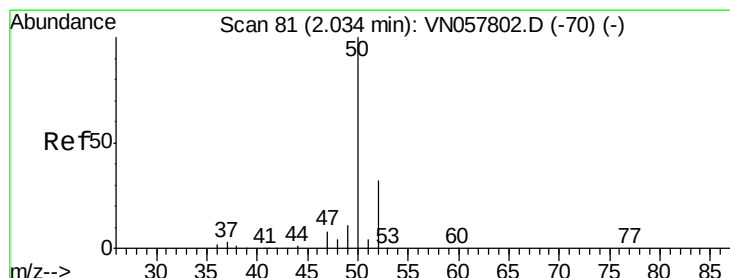
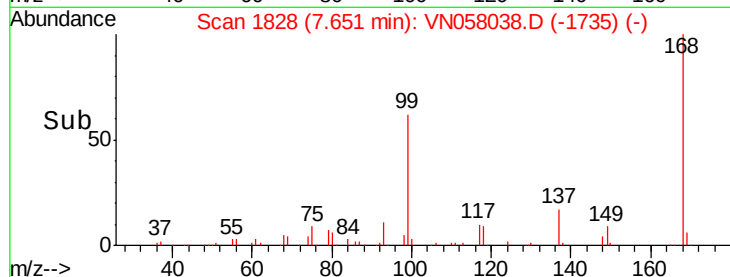
7.65

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.235 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058038.D

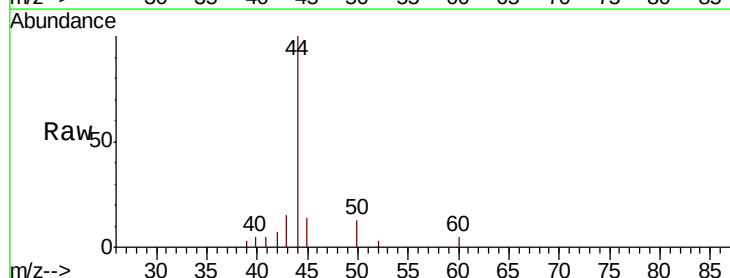
Acq: 13 Sep 2019 23:25

Tgt Ion: 50 Resp: 939

Ion Ratio Lower Upper

50 100

52 23.3 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN057802.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN057802.D (-70) (-)

2.04

800

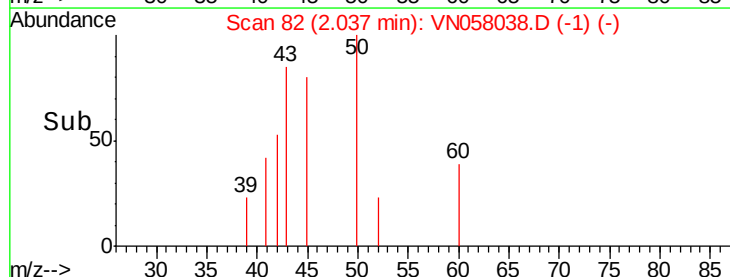
600

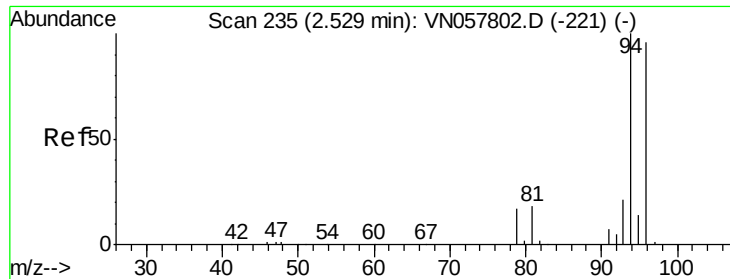
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 246

Delta R.T. 0.04 min

Lab File: VN058038.D

Acq: 13 Sep 2019 23:25

Instrument :

MSVOA_N

ClientSampled :

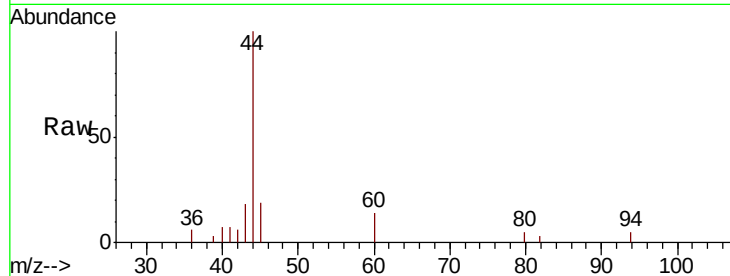
T1-4-(0)

Tgt Ion: 94 Resp: 219

Ion Ratio Lower Upper

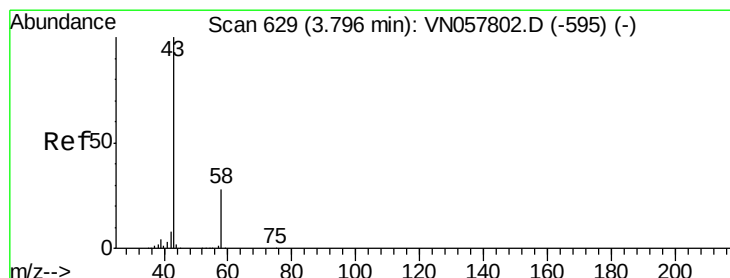
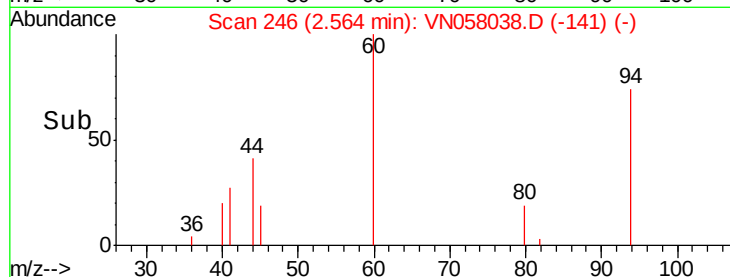
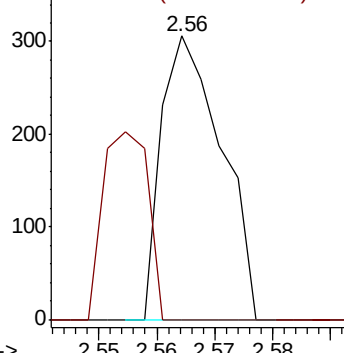
94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#16

Acetone

Concen: 5.579 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058038.D

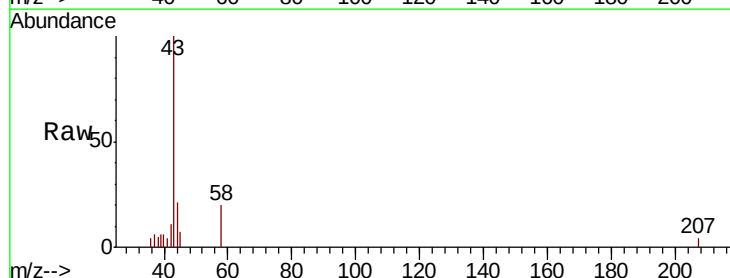
Acq: 13 Sep 2019 23:25

Tgt Ion: 43 Resp: 10500

Ion Ratio Lower Upper

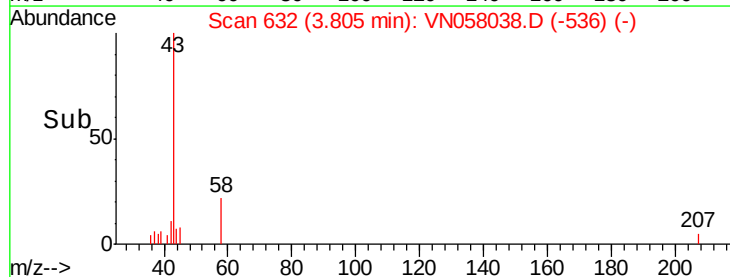
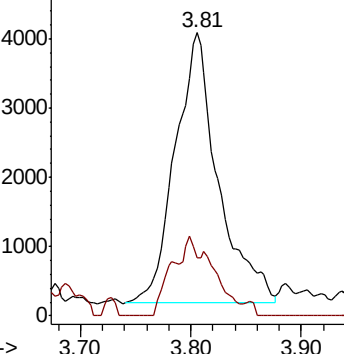
43 100

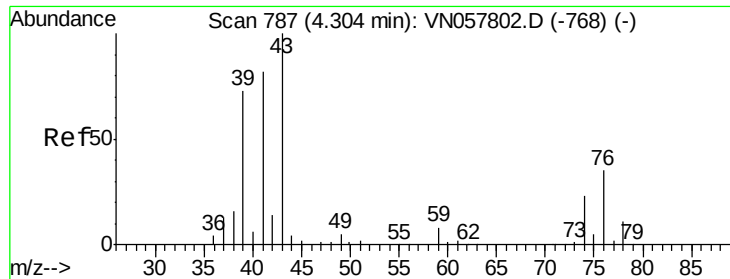
58 21.3 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

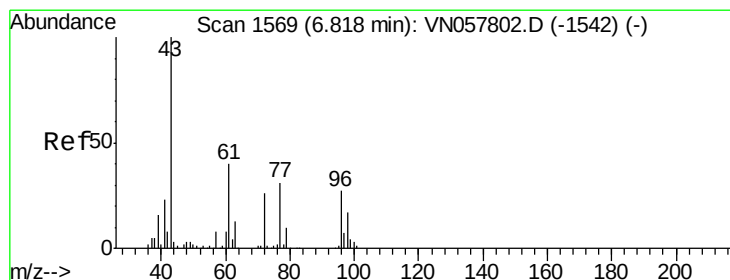
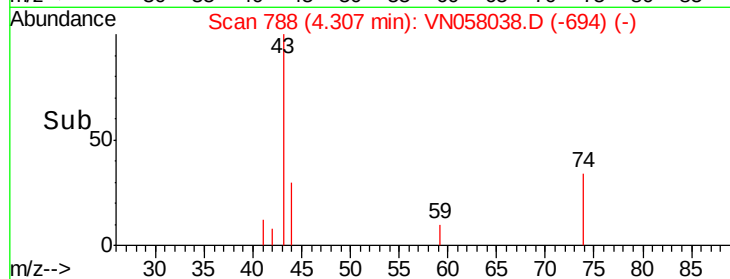
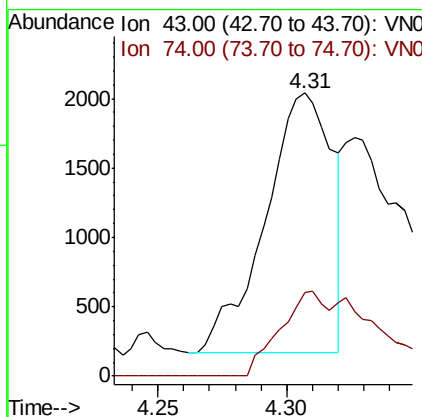
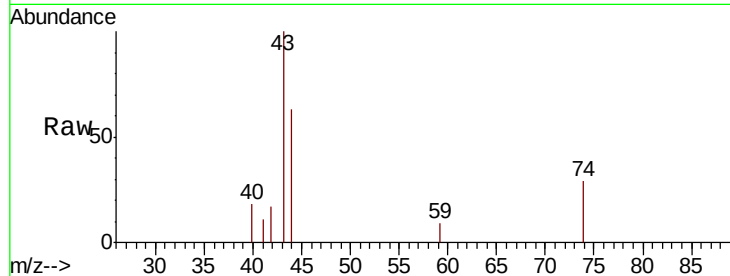




#18
Methyl Acetate
Concen: 0.674 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

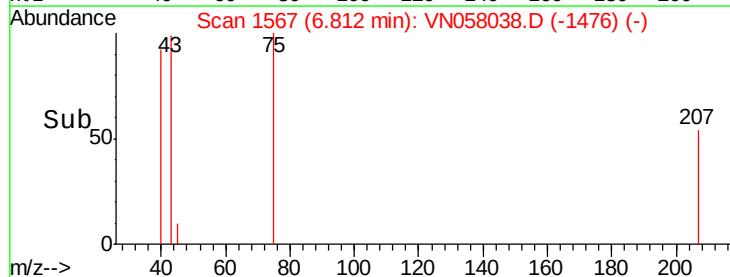
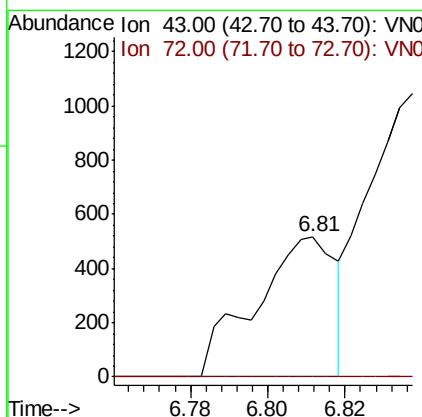
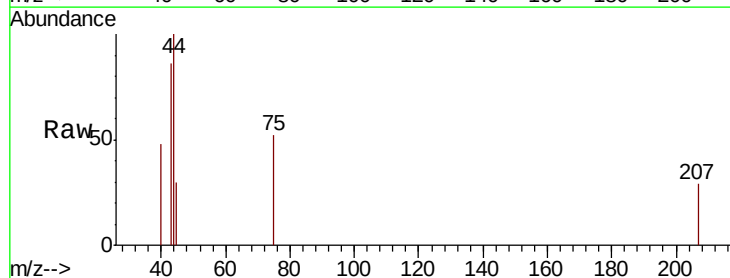
Instrument :
MSVOA_N
ClientSampled :
T1-4-(0)

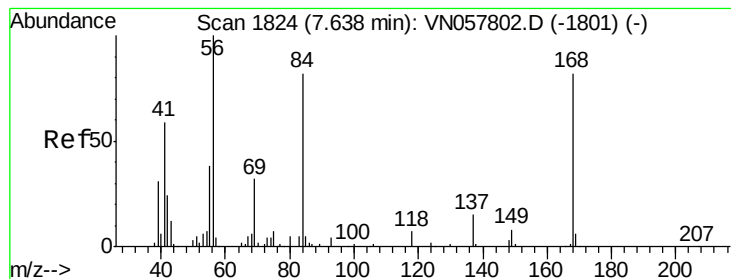
Tgt Ion: 43 Resp: 3381
Ion Ratio Lower Upper
43 100
74 23.1 17.9 26.9



#25
2-Butanone
Concen: 0.275 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

Tgt Ion: 43 Resp: 748
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058038.D

Acq: 13 Sep 2019 23:25

Instrument :

MSVOA_N

ClientSampled :

T1-4-(0)

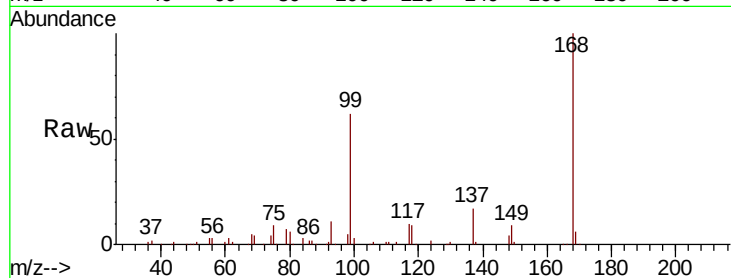
Tgt Ion: 56 Resp: 7808

Ion Ratio Lower Upper

56 100

69 133.8 25.9 38.9#

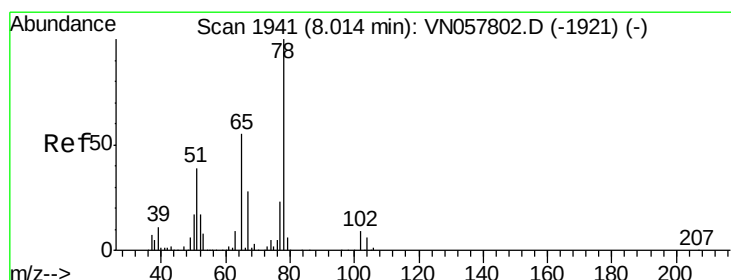
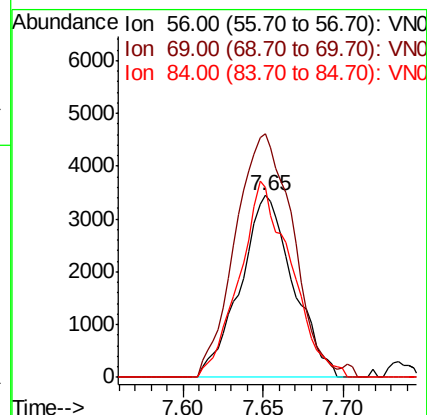
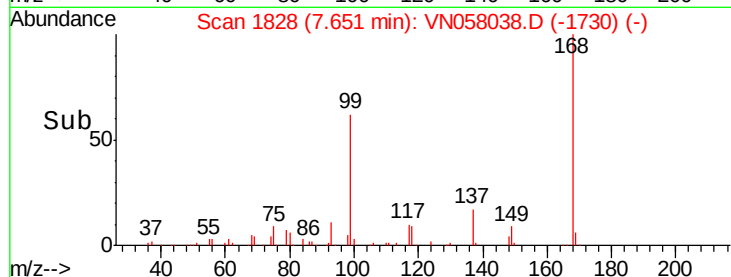
84 104.4 65.6 98.4#



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: 58.741 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058038.D

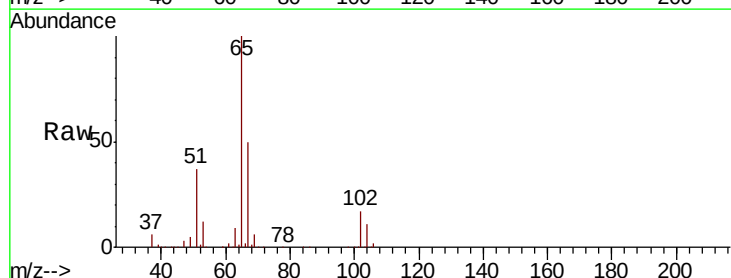
Acq: 13 Sep 2019 23:25

Tgt Ion: 65 Resp: 337245

Ion Ratio Lower Upper

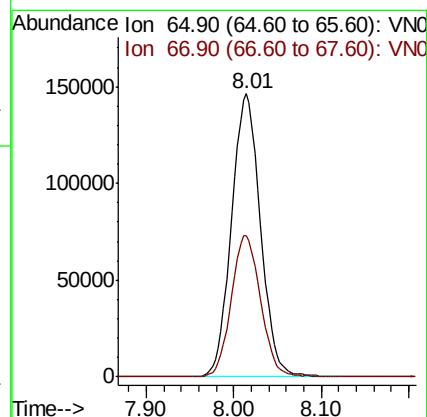
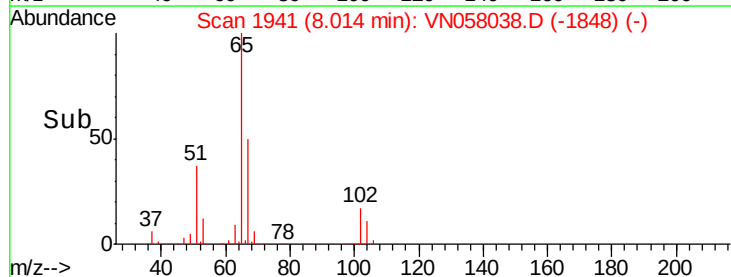
65 100

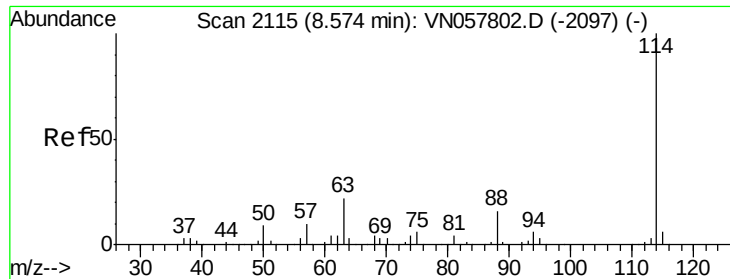
67 50.2 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

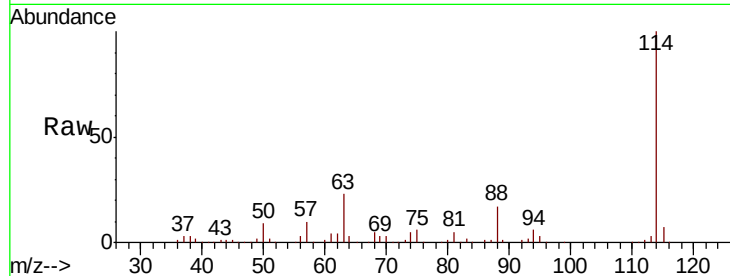




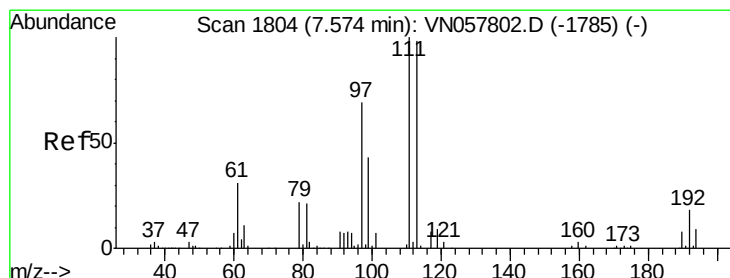
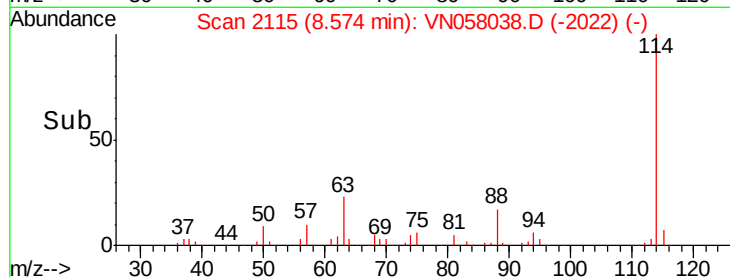
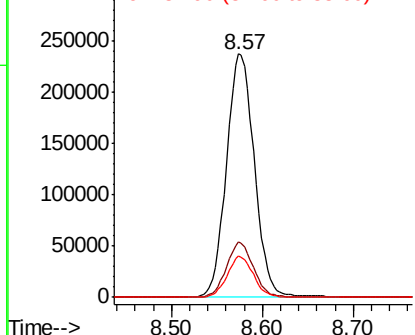
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. 0.00 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

Instrument :
MSVOA_N
ClientSampleId :
T1-4-(0)

Tgt Ion:114 Resp: 506550
Ion Ratio Lower Upper
114 100
63 22.6 0.0 44.0
88 16.9 0.0 31.4

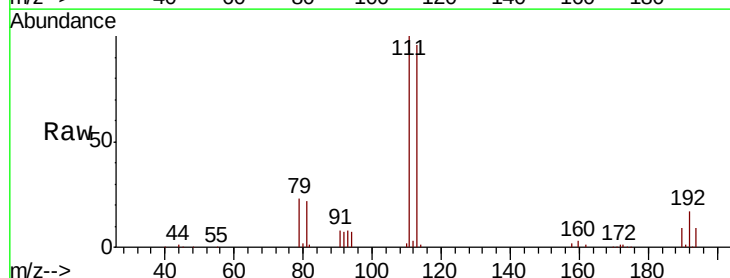


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

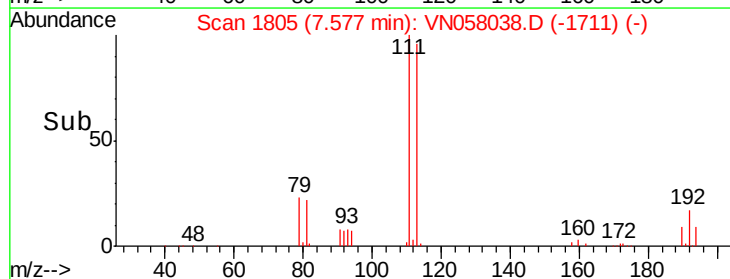
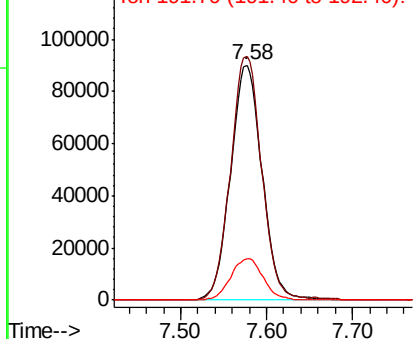


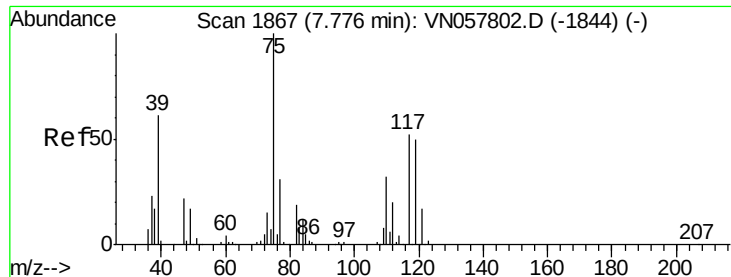
#35
Dibromofluoromethane
Concen: 49.100 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

Tgt Ion:113 Resp: 229553
Ion Ratio Lower Upper
113 100
111 102.2 81.3 121.9
192 18.2 14.6 22.0



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

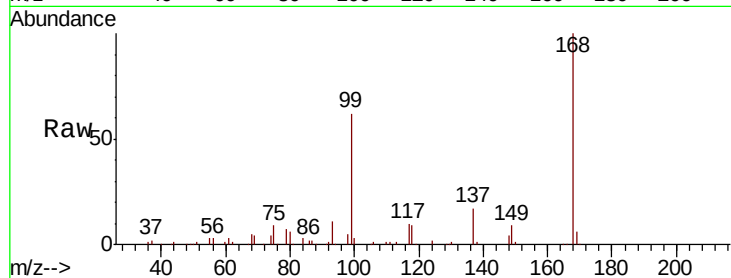




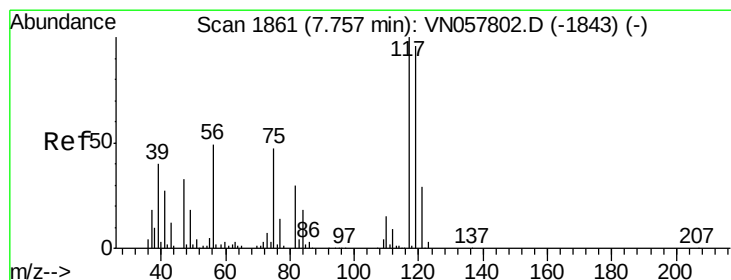
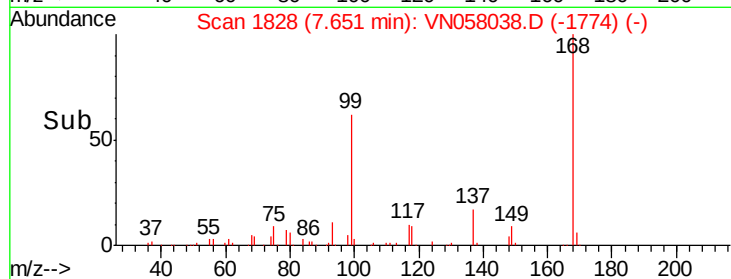
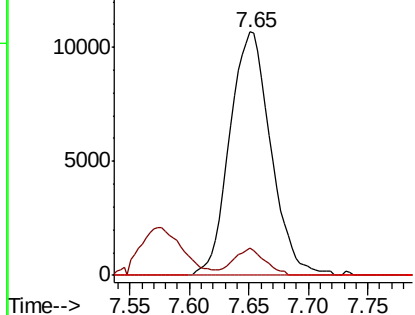
#36
 1,1-Dichloropropene
 Concen: 4.348 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058038.D
 Acq: 13 Sep 2019 23:25

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4-(0)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.3	48.9#
77	0.0	25.0	37.4#

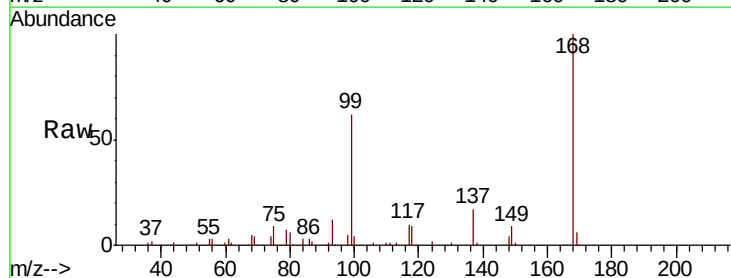


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

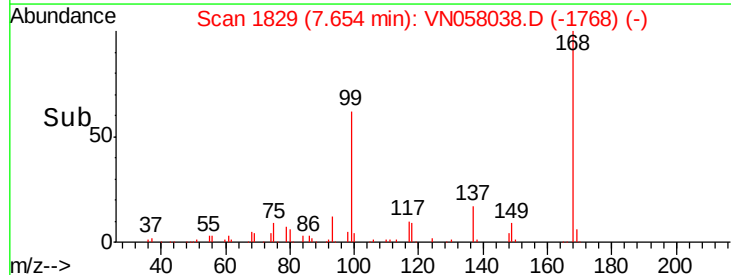
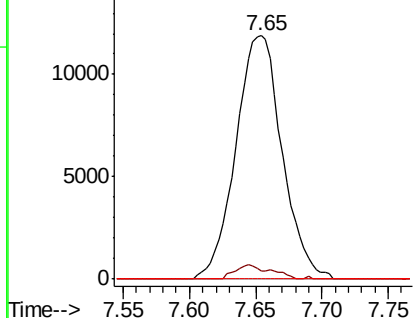


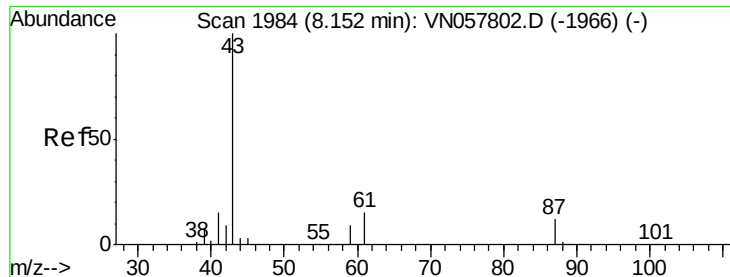
#38
 Carbon Tetrachloride
 Concen: 5.368 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN058038.D
 Acq: 13 Sep 2019 23:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.4	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: 11.551 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058038.D

Acq: 13 Sep 2019 23:25

Instrument :

MSVOA_N

ClientSampled :

T1-4-(0)

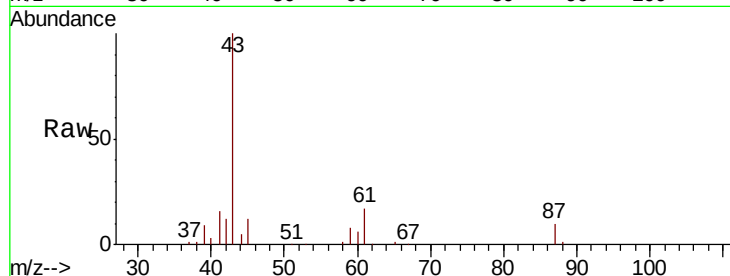
Tgt Ion: 43 Resp: 117897

Ion Ratio Lower Upper

43 100

61 14.8 20.1 30.1#

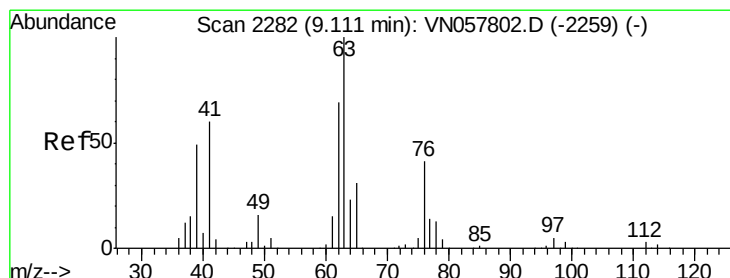
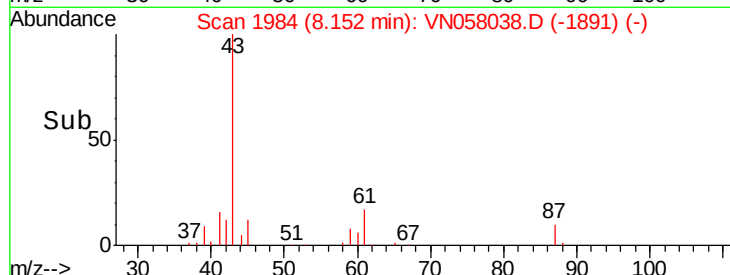
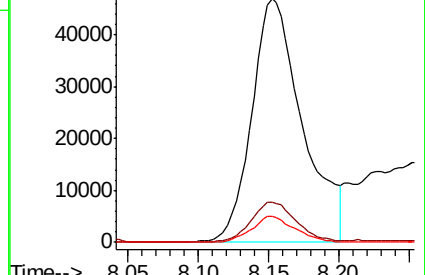
87 9.1 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)



#45

1,2-Dichloropropane

Concen: 0.336 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058038.D

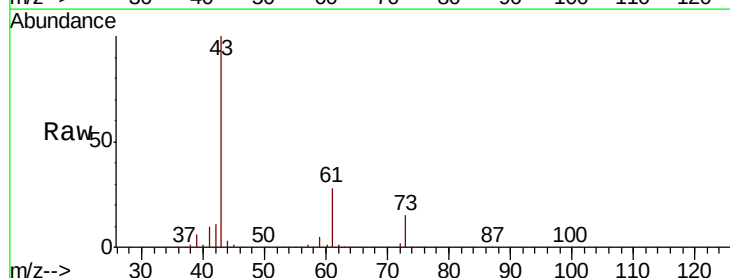
Acq: 13 Sep 2019 23:25

Tgt Ion: 63 Resp: 1728

Ion Ratio Lower Upper

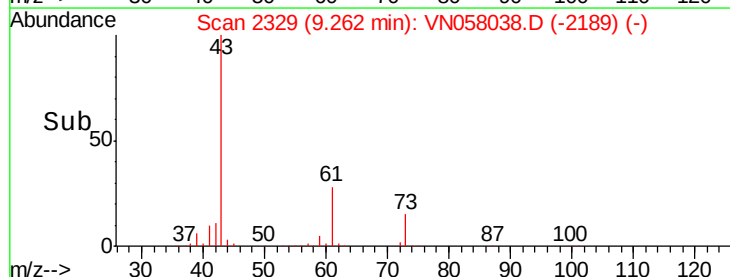
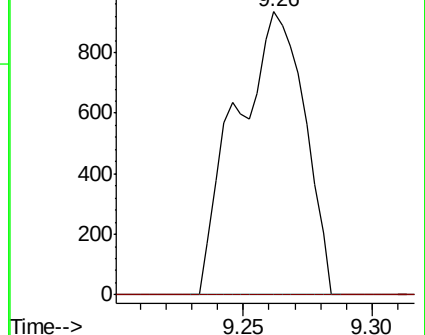
63 100

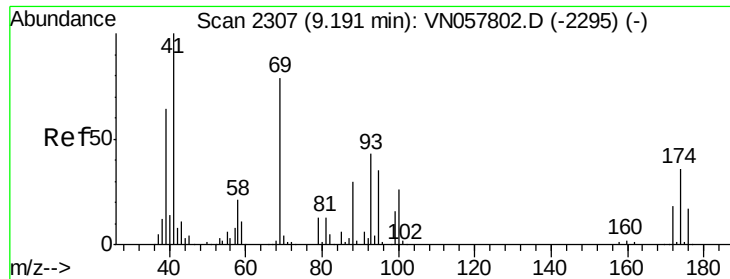
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN057802.D (-2259) (-)

Ion 64.90 (64.60 to 65.60): VN057802.D (-2259) (-)

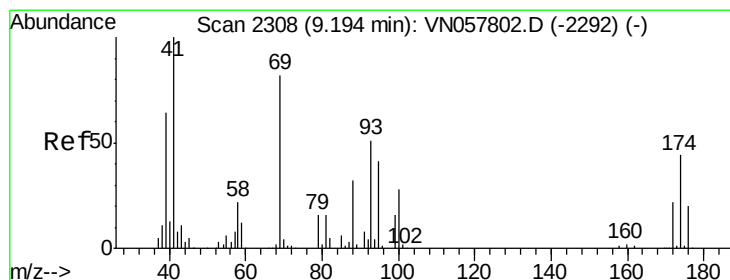
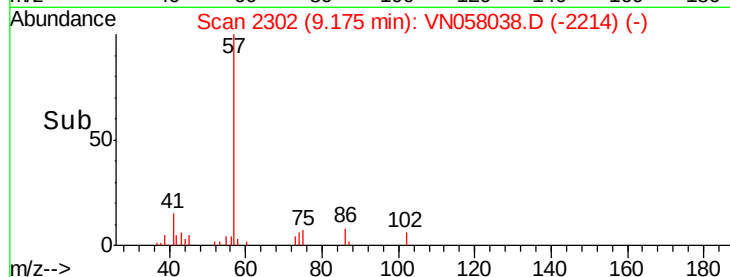
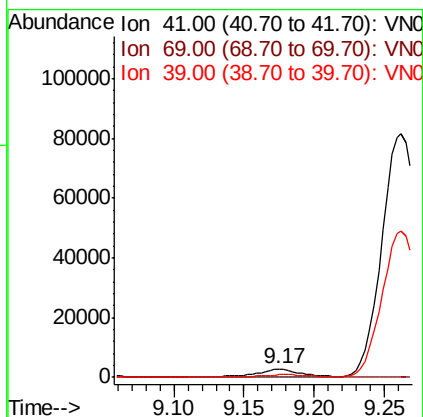
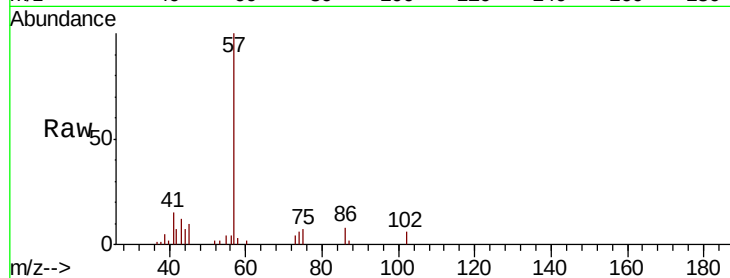




#48
Methyl methacrylate
Concen: 1.228 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

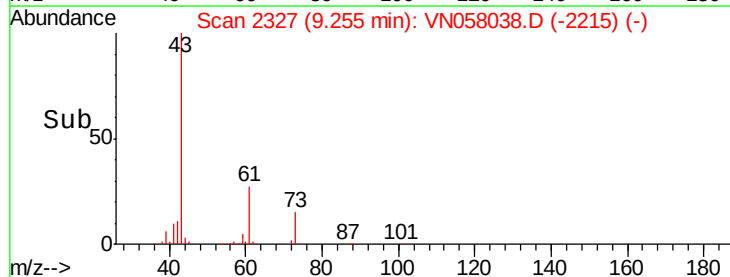
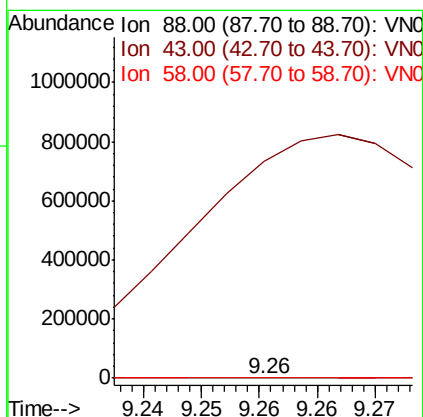
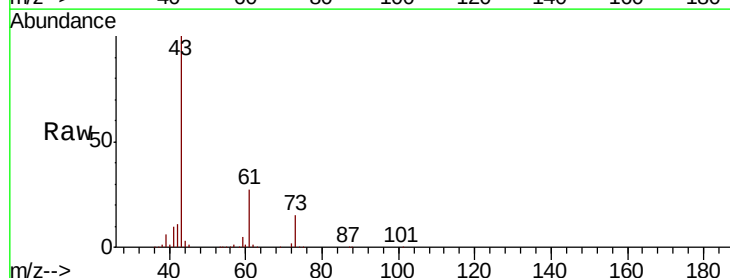
Instrument :
MSVOA_N
ClientSampled :
T1-4-(0)

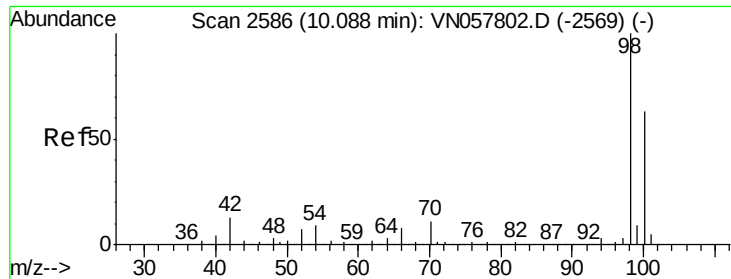
Tgt Ion: 41 Resp: 6356
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 0.331 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.06 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 5276124.1 28.5 42.7#
58 24520.7 55.8 83.6#





#50

Toluene-d8

Concen: 43.894 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058038.D

Acq: 13 Sep 2019 23:25

Instrument :

MSVOA_N

ClientSampleId :

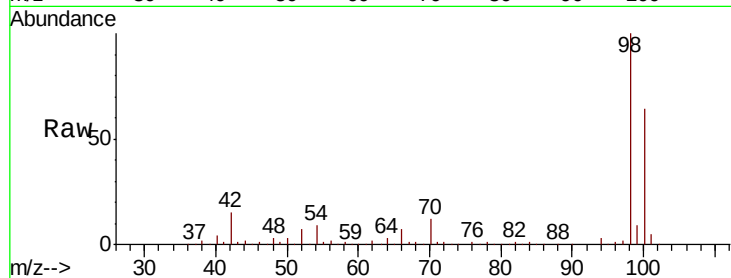
T1-4-(0)

Tgt Ion: 98 Resp: 796766

Ion Ratio Lower Upper

98 100

100 63.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.08

400000

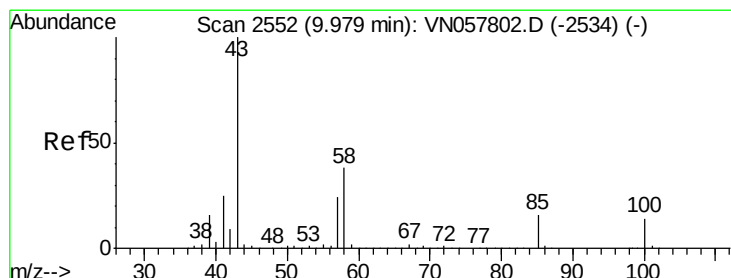
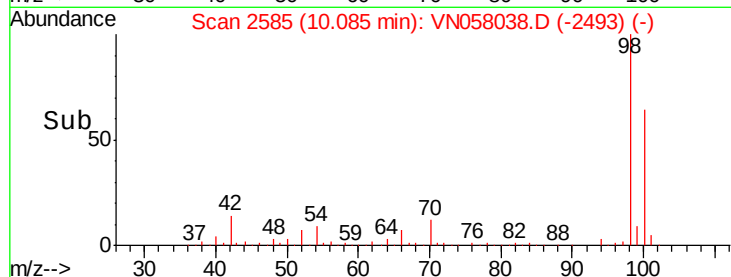
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.224 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058038.D

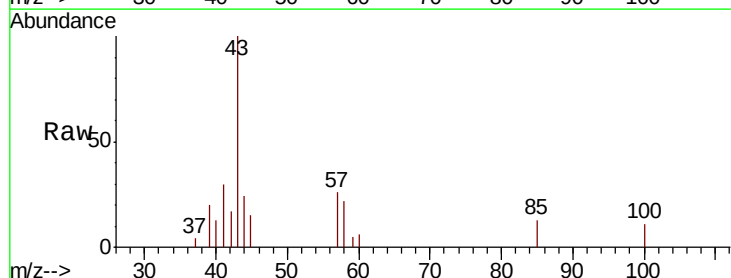
Acq: 13 Sep 2019 23:25

Tgt Ion: 43 Resp: 7395

Ion Ratio Lower Upper

43 100

58 18.1 29.8 44.6#



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

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

8000

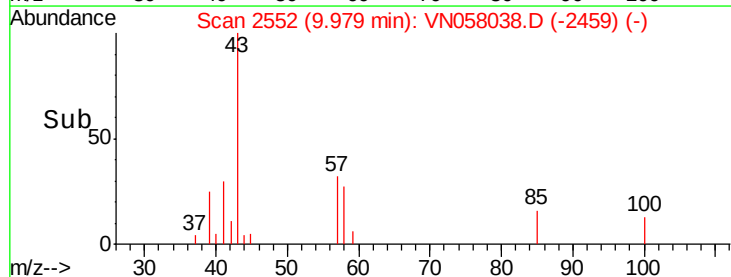
6000

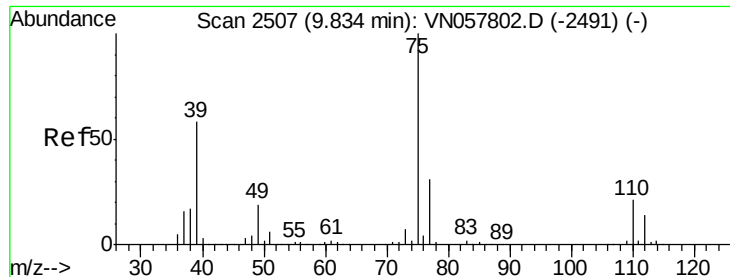
4000

2000

0

Time-->



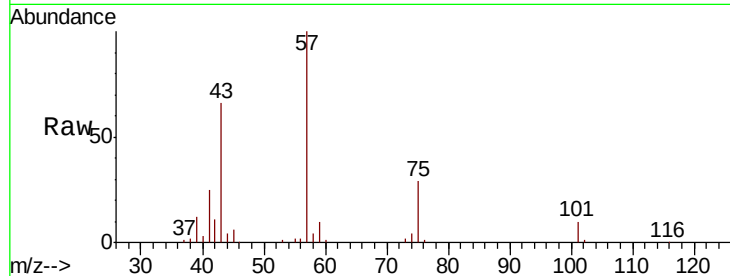


#54

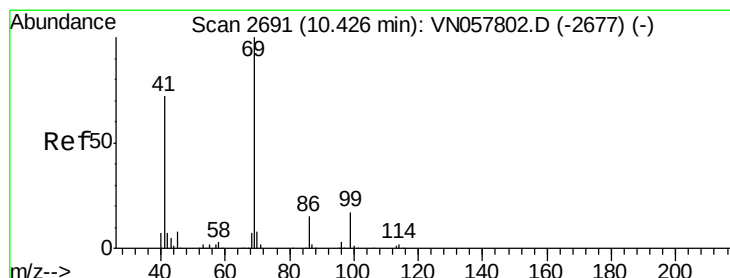
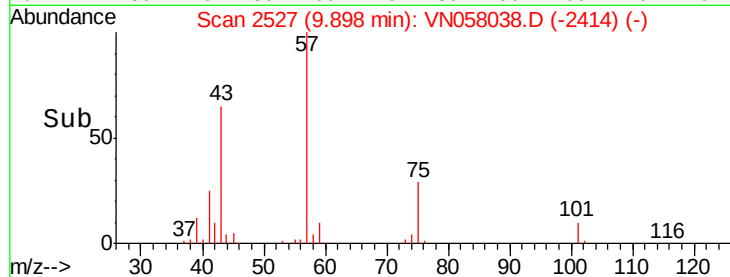
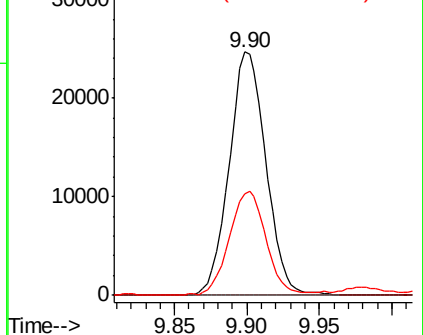
cis-1,3-Dichloropropene
 Concen: 6.009 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN058038.D
 Acq: 13 Sep 2019 23:25

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4-(0)

Tgt Ion: 75 Resp: 43383
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 41.0 46.2 69.4#



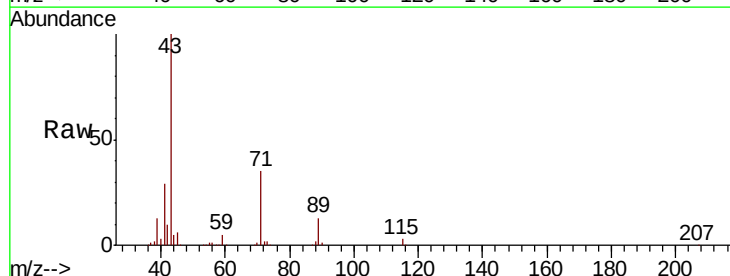
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



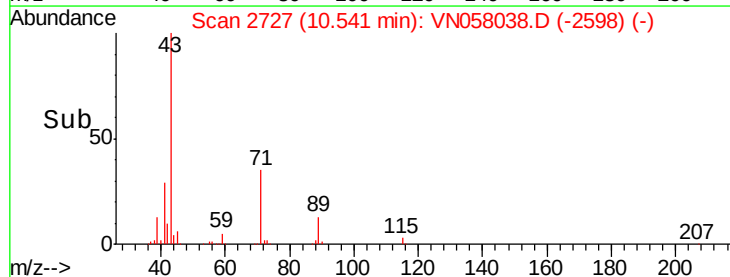
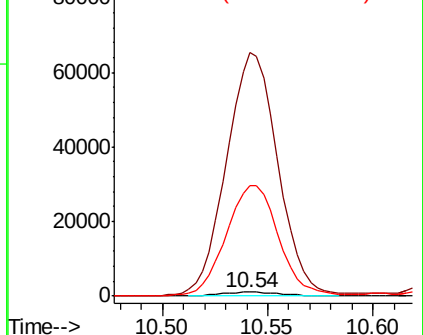
#56

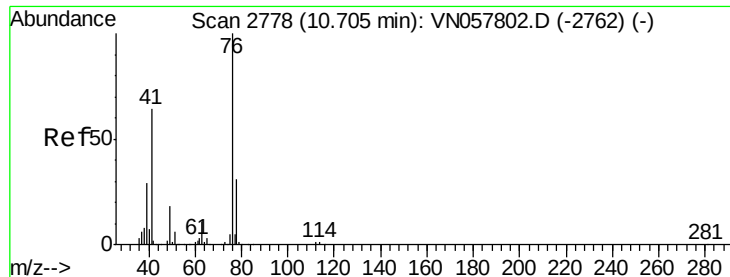
Ethyl methacrylate
 Concen: 0.304 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN058038.D
 Acq: 13 Sep 2019 23:25

Tgt Ion: 69 Resp: 2157
 Ion Ratio Lower Upper
 69 100
 41 5158.3 56.7 85.1#
 39 2384.2 36.3 54.5#



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





#57

1,3-Dichloropropane

Concen: 0.847 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058038.D

Acq: 13 Sep 2019 23:25

Instrument :

MSVOA_N

ClientSampleId :

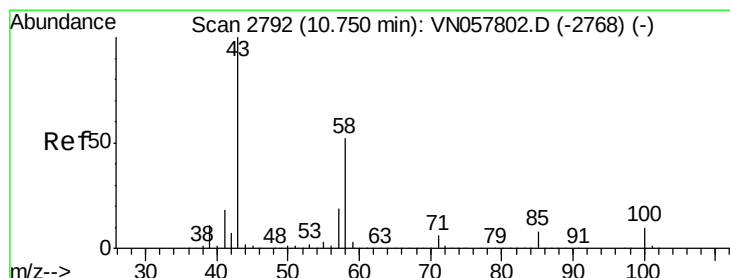
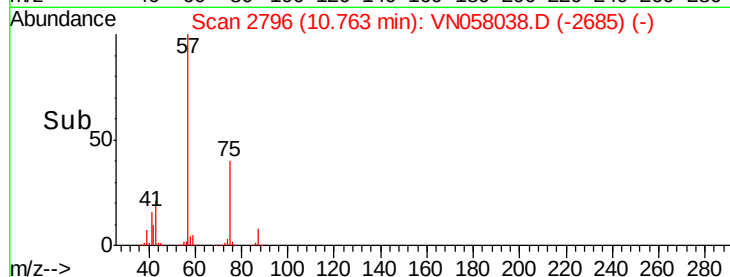
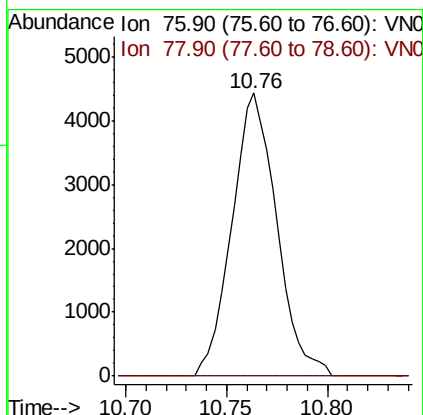
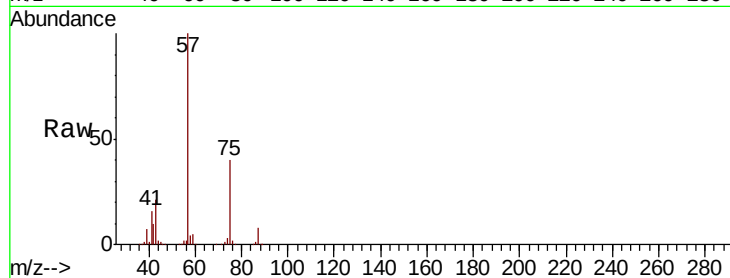
T1-4-(0)

Tgt Ion: 76 Resp: 6888

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 22.268 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058038.D

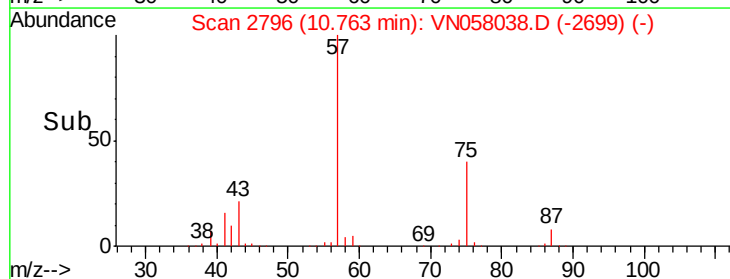
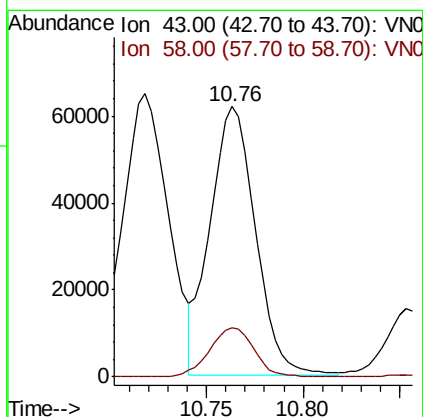
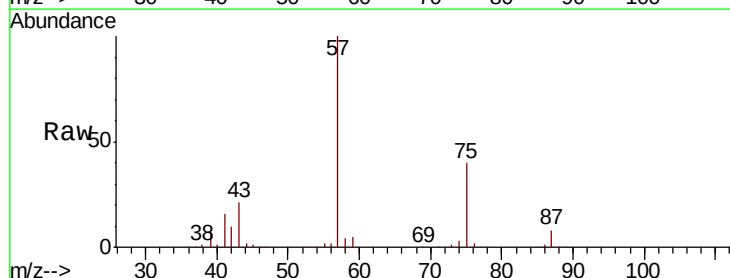
Acq: 13 Sep 2019 23:25

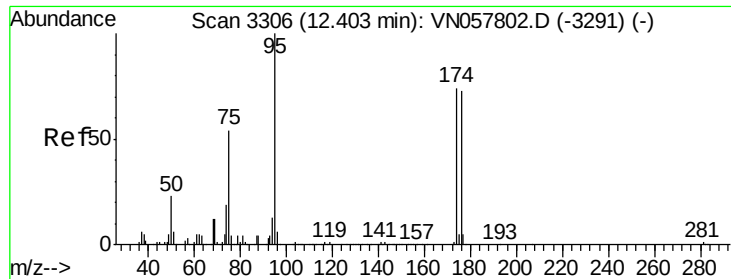
Tgt Ion: 43 Resp: 100816

Ion Ratio Lower Upper

43 100

58 17.9 25.6 76.8#

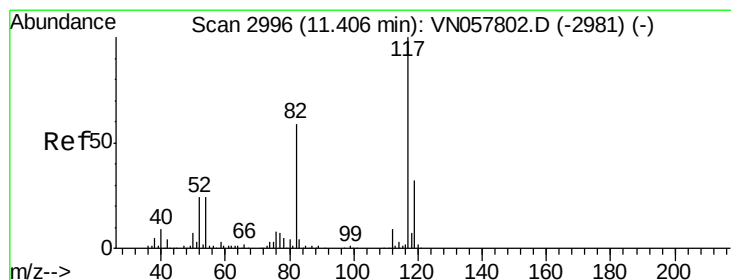
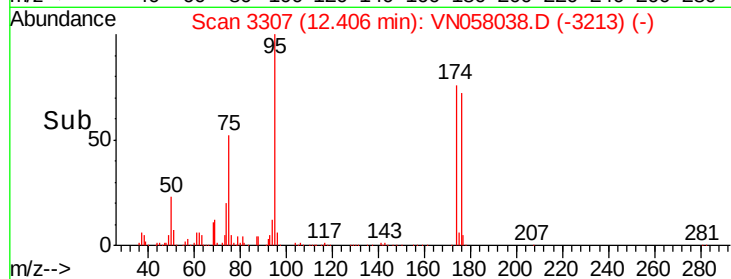
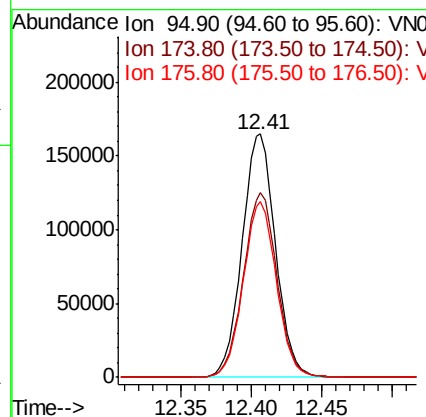
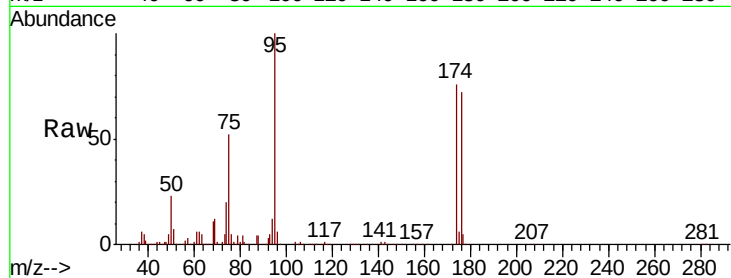




#62
4-Bromofluorobenzene
Concen: 39.608 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

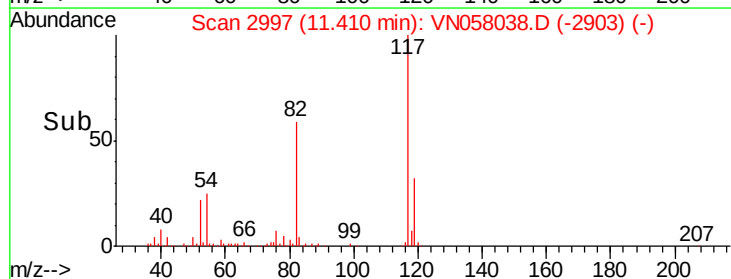
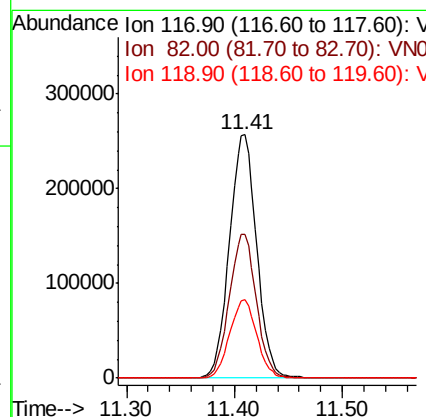
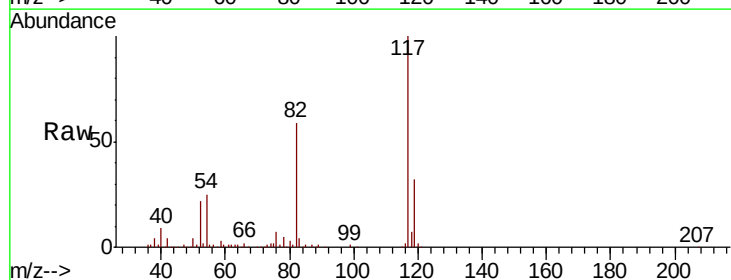
Instrument :
MSVOA_N
ClientSampled :
T1-4-(0)

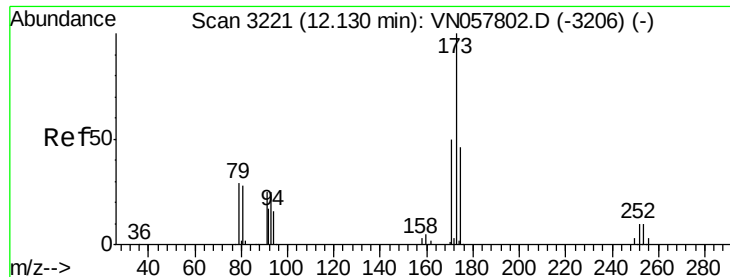
Tgt Ion: 95 Resp: 273989
Ion Ratio Lower Upper
95 100
174 76.2 0.0 150.2
176 71.9 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

Tgt Ion: 117 Resp: 452115
Ion Ratio Lower Upper
117 100
82 58.9 47.2 70.8
119 32.2 25.3 37.9

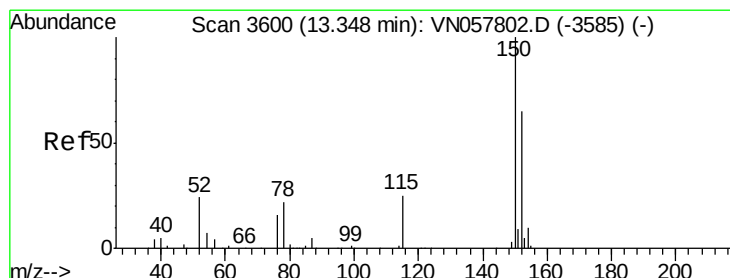
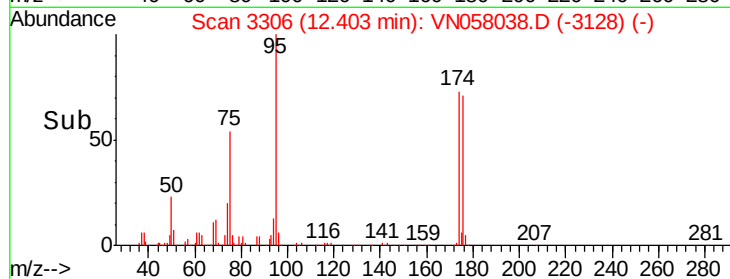
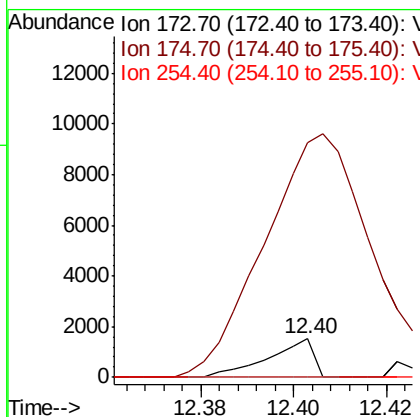
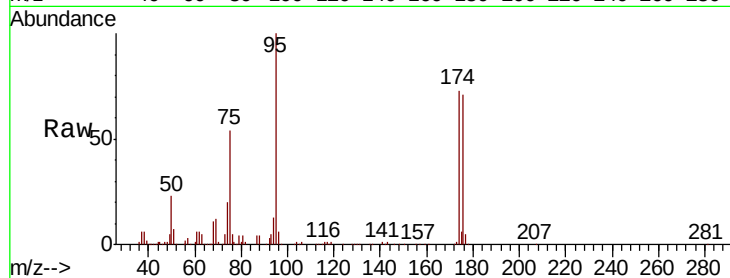




#71
Bromoform
Concen: 0.400 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

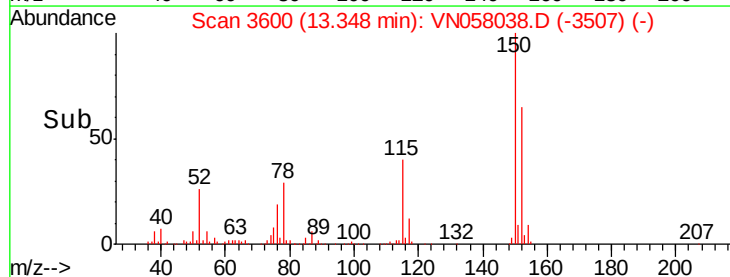
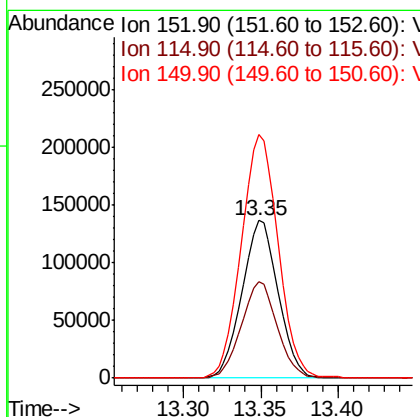
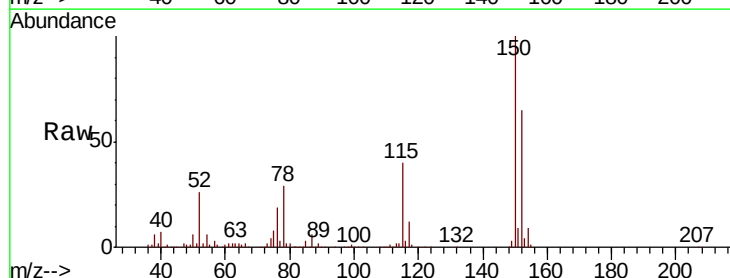
Instrument :
MSVOA_N
ClientSampleId :
T1-4-(0)

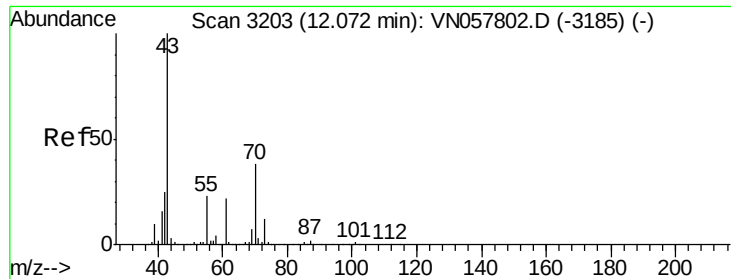
Tgt Ion:173 Resp: 1025
Ion Ratio Lower Upper
173 100
175 1304.4 23.5 70.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058038.D
Acq: 13 Sep 2019 23:25

Tgt Ion:152 Resp: 222235
Ion Ratio Lower Upper
152 100
115 60.7 30.3 91.0
150 157.6 0.0 352.4





#74

N-ethyl acetate

Concen: 0.452 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN058038.D

Acq: 13 Sep 2019 23:25

Instrument :

MSVOA_N

ClientSampled :

T1-4(0)

Tgt Ion: 43 Resp: 3389

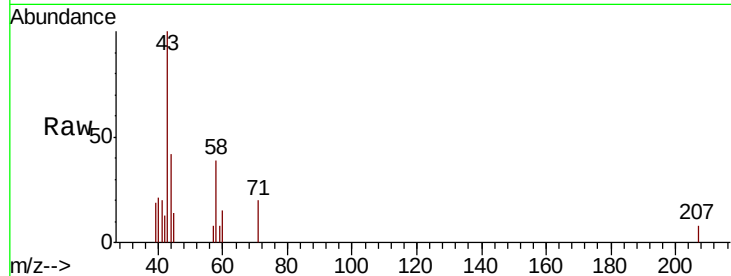
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.6 27.8#

61 0.0 17.4 26.2#

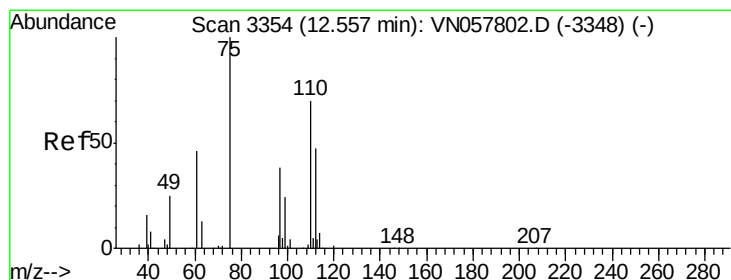
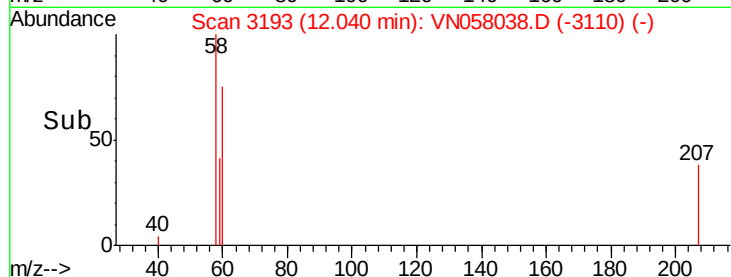
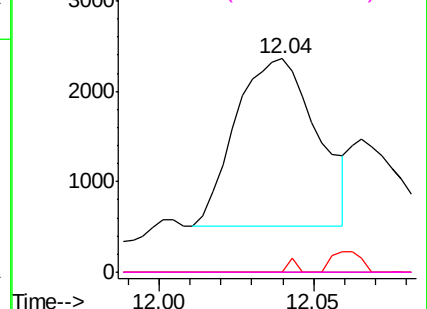


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.870 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058038.D

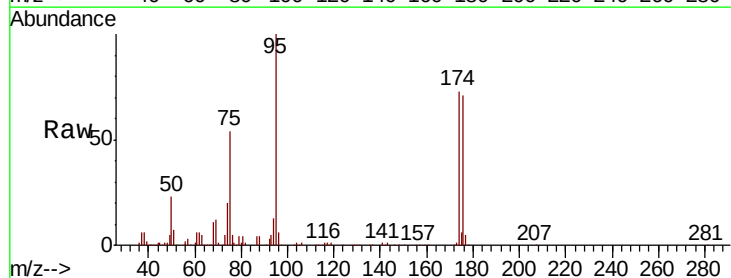
Acq: 13 Sep 2019 23:25

Tgt Ion: 75 Resp: 145138

Ion Ratio Lower Upper

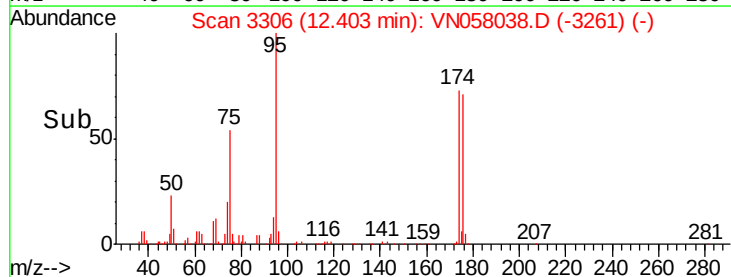
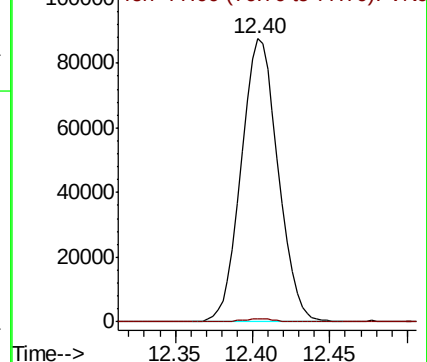
75 100

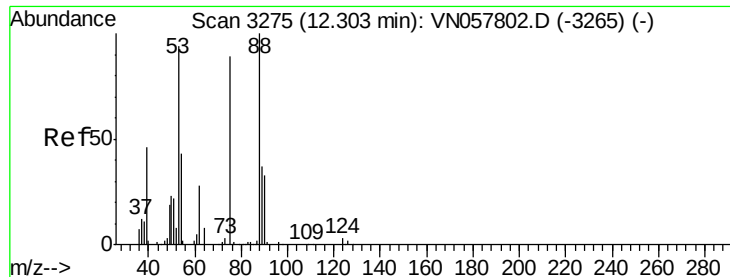
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 101.593 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058038.D

Acq: 13 Sep 2019 23:25

Instrument :

MSVOA_N

ClientSampleId :

T1-4-(0)

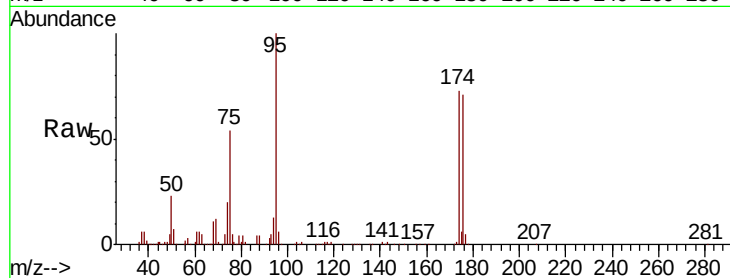
Tgt Ion: 75 Resp: 145138

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

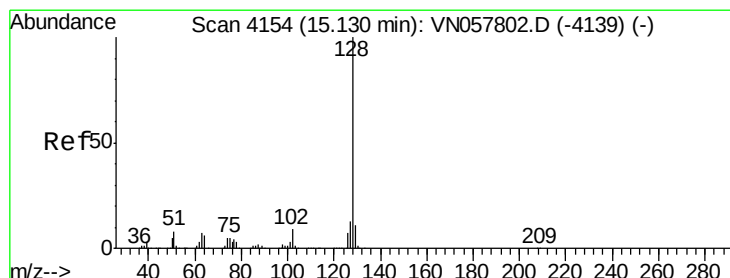
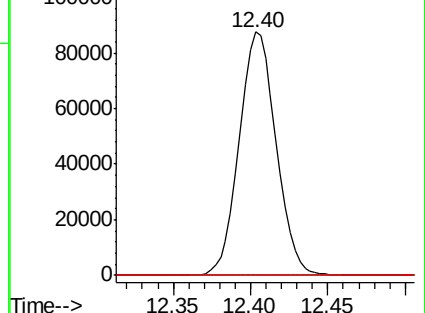
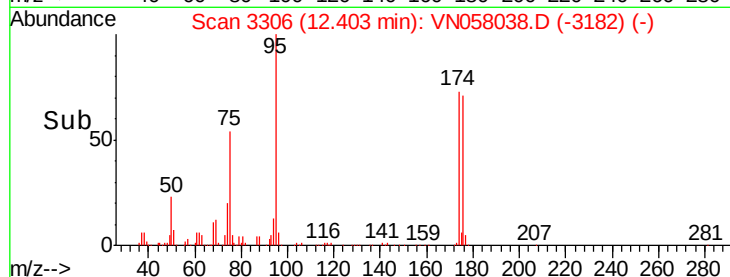
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058038.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN058038.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN058038.D (-3182) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058038.D

Acq: 13 Sep 2019 23:25

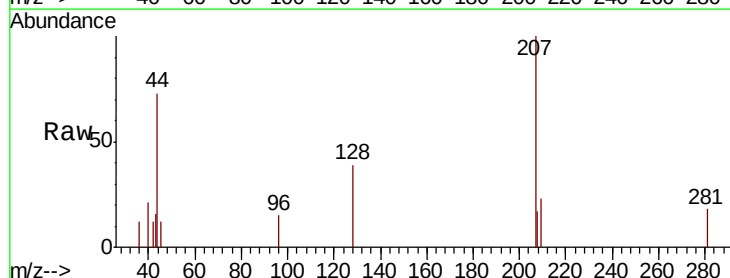
Tgt Ion: 128 Resp: 816

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

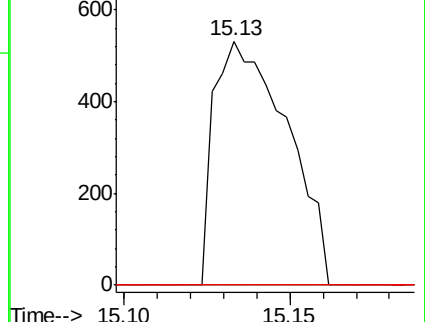
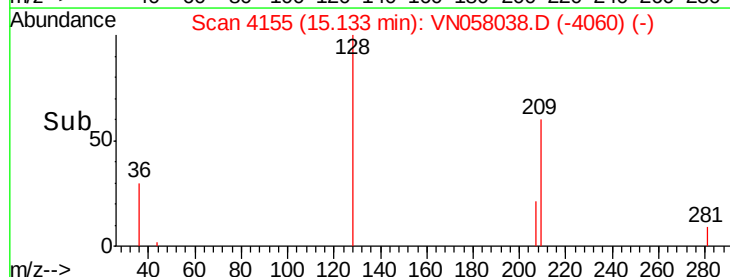
129 0.0 8.6 12.8#

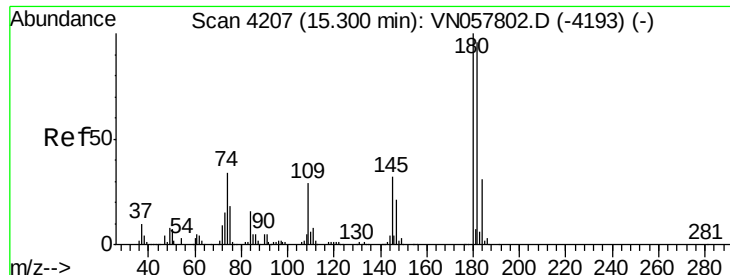


Abundance Ion 128.00 (127.70 to 128.70): VN058038.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN058038.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN058038.D (-4060) (-)

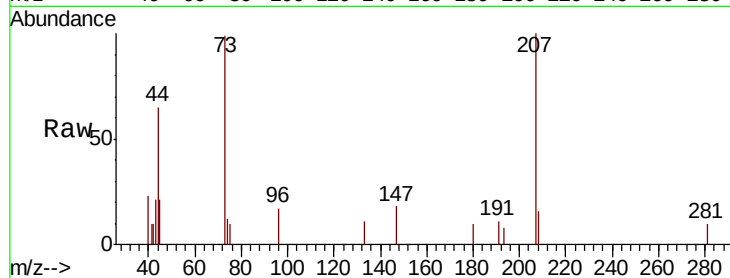




#96
 1,2,3-Trichlorobenzene
 Concen: 1.014 ug/l
 RT: 15.29 min Scan# 4204
 Delta R.T. -0.01 min
 Lab File: VN058038.D
 Acq: 13 Sep 2019 23:25

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-4-(0)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	138.0	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

