

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052394.D
 Acq On : 19 Nov 2018 19:20
 Operator : MD\SY
 Sample : J5762-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-03-111518

Quant Time: Nov 20 07:14:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

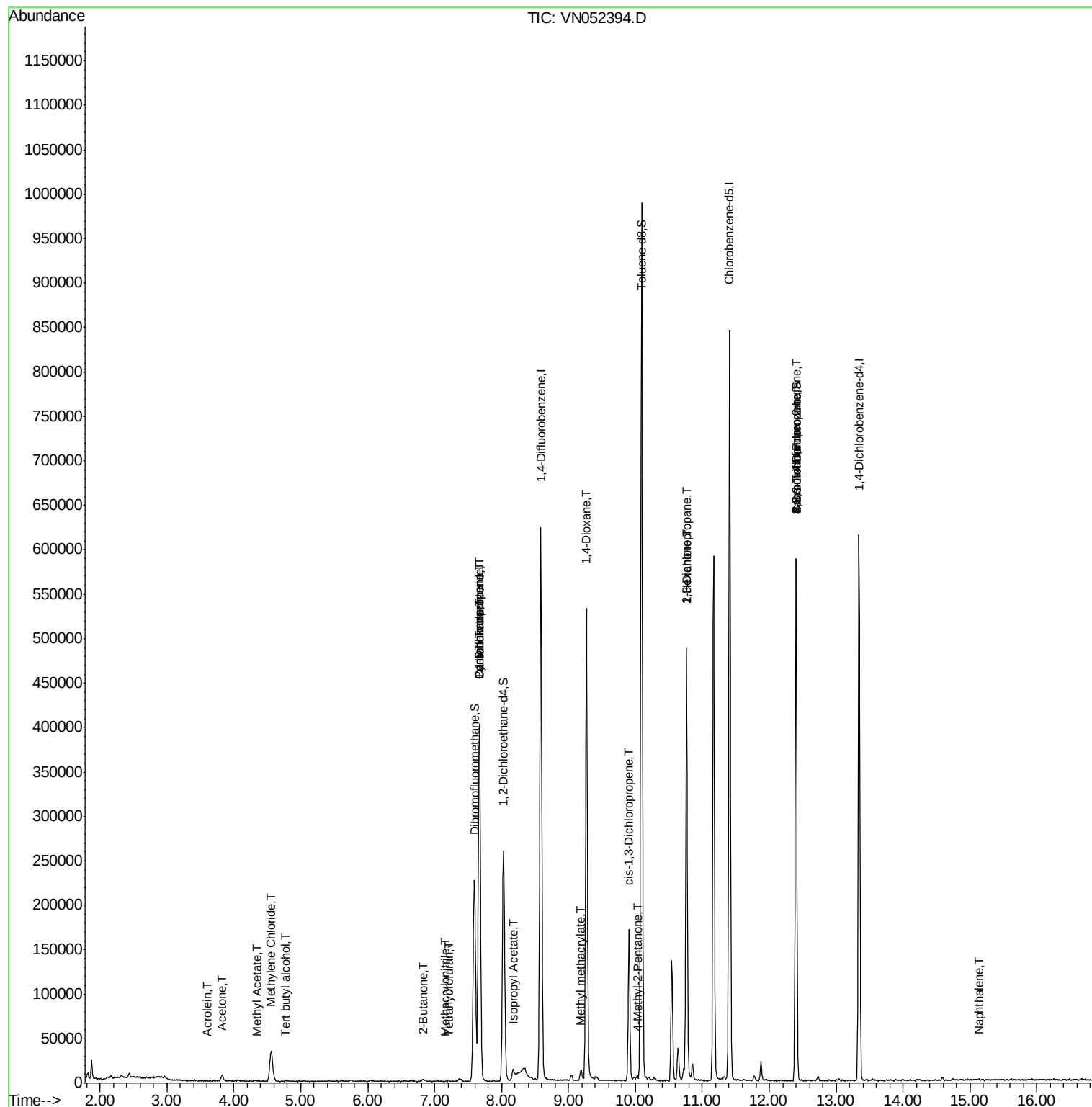
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	295752	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	503226	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	429550	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149100	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	219646	52.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.16%	
35) Dibromofluoromethane	7.59	113	166313	51.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.48%	
50) Toluene-d8	10.09	98	637688	49.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.88%	
62) 4-Bromofluorobenzene	12.40	95	183546	43.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.40%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.78	59	89	0.403	ug/l #	72
13) Acrolein	3.61	56	168	22.231	ug/l #	14
16) Acetone	3.82	43	11393	9.906	ug/l	93
18) Methyl Acetate	4.34	43	2122	1.084	ug/l #	73
20) Methylene Chloride	4.55	84	22270	5.745	ug/l	95
25) 2-Butanone	6.83	43	738	0.456	ug/l #	52
29) Tetrahydrofuran	7.21	42	428	0.402	ug/l #	40
31) Cyclohexane	7.67	56	9622	0.464	ug/l #	35
36) 1,1-Dichloropropene	7.67	75	27894	5.530	ug/l #	48
38) Carbon Tetrachloride	7.67	117	32397	6.991	ug/l #	17
41) Methacrylonitrile	7.17	41	64	3.725	ug/l #	100
43) Isopropyl Acetate	8.17	43	15258	2.160	ug/l #	96
48) Methyl methacrylate	9.18	41	4947	1.380	ug/l #	16
49) 1,4-Dioxane	9.27	88	66	2.399	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	3758	1.057	ug/l #	41
54) cis-1,3-Dichloropropene	9.91	75	24453	4.378	ug/l #	76
57) 1,3-Dichloropropane	10.76	76	4452	0.804	ug/l #	43
59) 2-Hexanone	10.76	43	80538	32.931	ug/l #	54
71) Bromoform	12.39	173	524	0.287	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	109388	43.237	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	109388	140.235	ug/l #	5
95) Naphthalene	15.13	128	1320	2.842	ug/l #	81

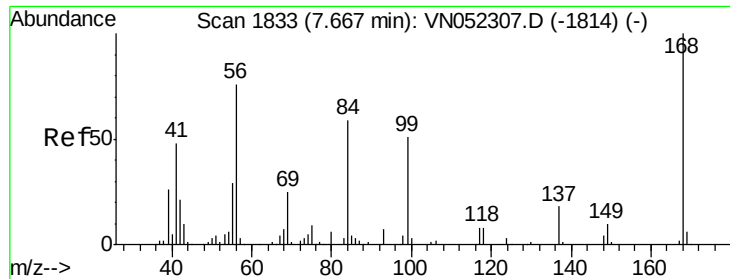
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 15 03:02:37 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052394.D

Acq: 19 Nov 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

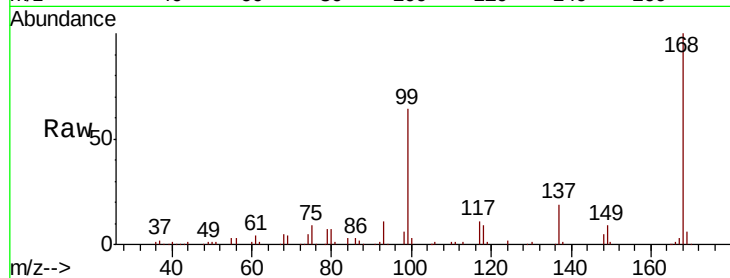
BU-03-111518

Tot Ion:168 Resp: 295752

Ion Ratio Lower Upper

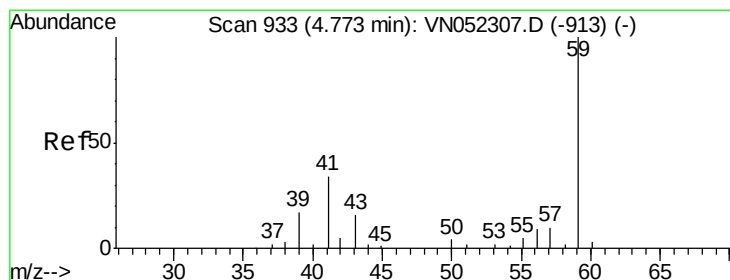
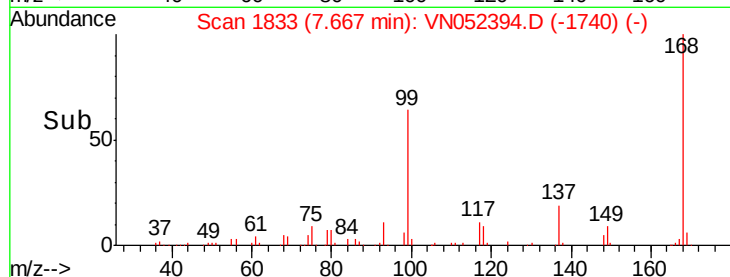
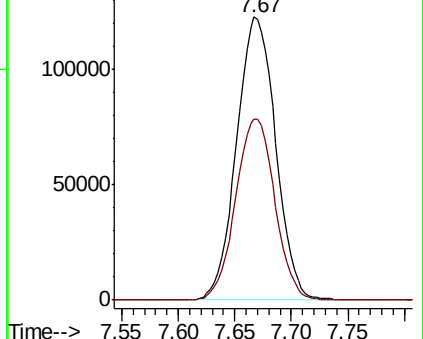
168 100

99 64.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.403 ug/l

RT: 4.78 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN052394.D

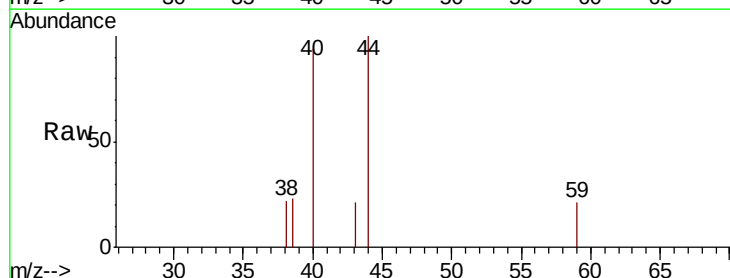
Acq: 19 Nov 2018 19:20

Tgt Ion: 59 Resp: 89

Ion Ratio Lower Upper

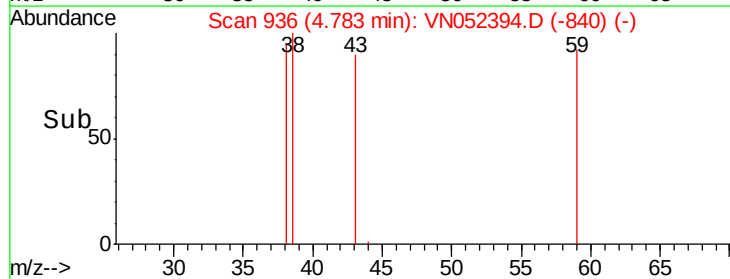
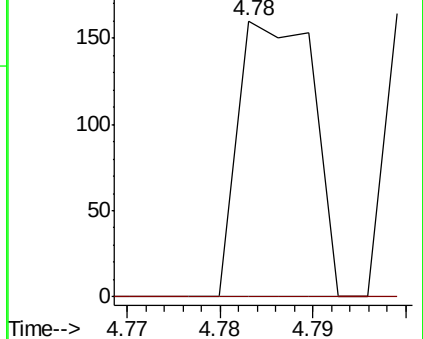
59 100

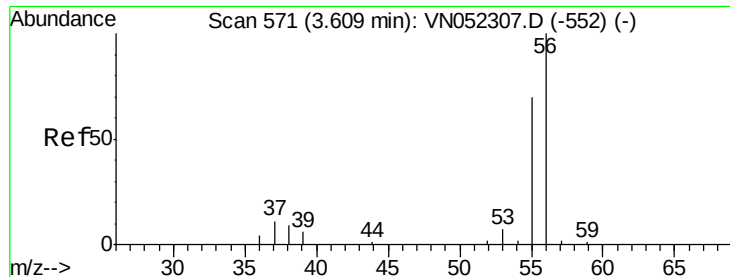
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 22.231 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052394.D

Acq: 19 Nov 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

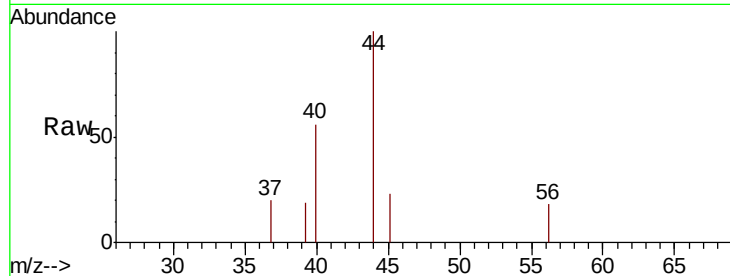
BU-03-111518

Tot Ion: 56 Resp: 168

Ion Ratio Lower Upper

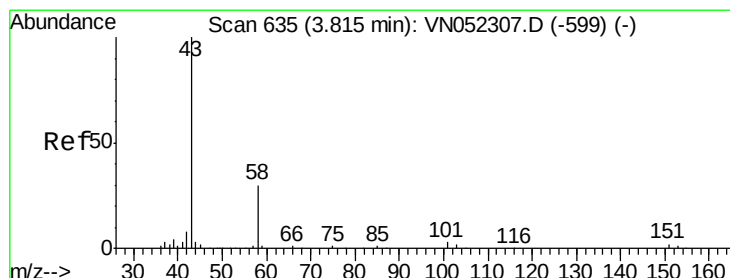
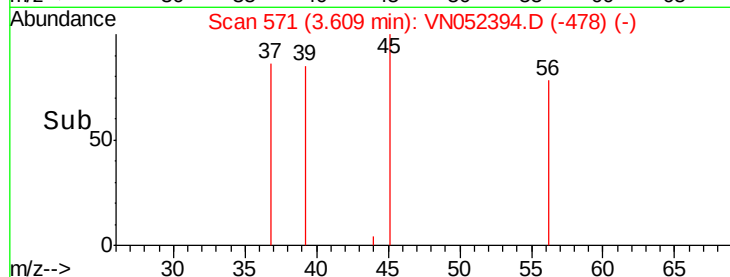
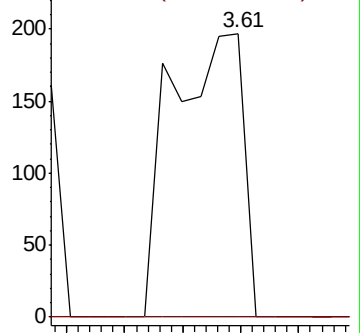
56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 9.906 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052394.D

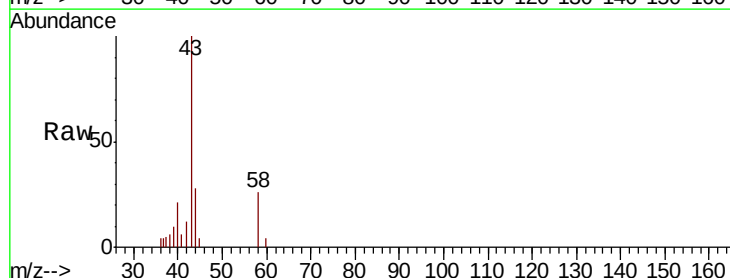
Acq: 19 Nov 2018 19:20

Tgt Ion: 43 Resp: 11393

Ion Ratio Lower Upper

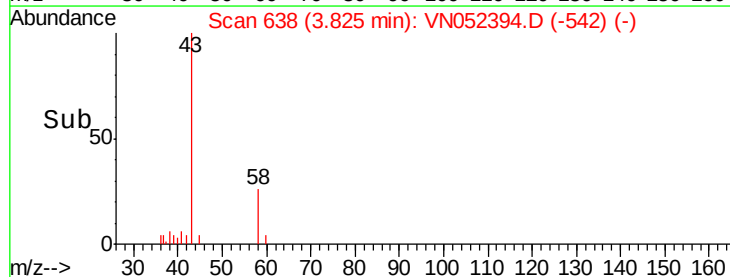
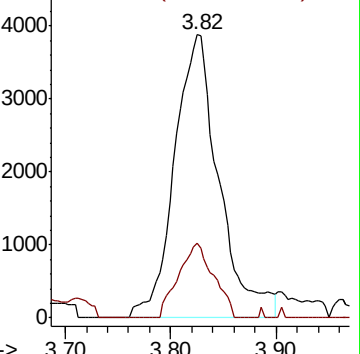
43 100

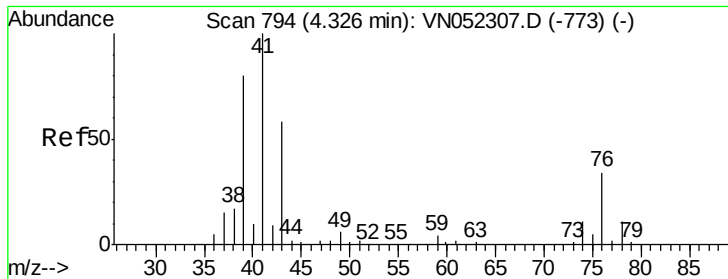
58 26.2 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

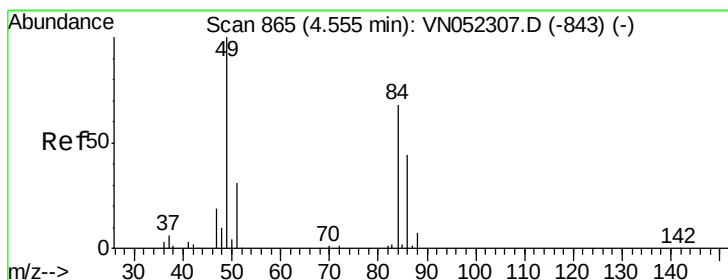
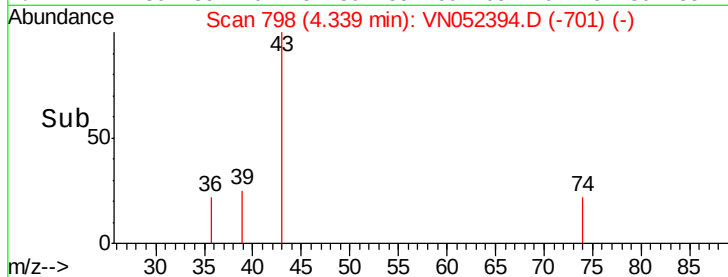
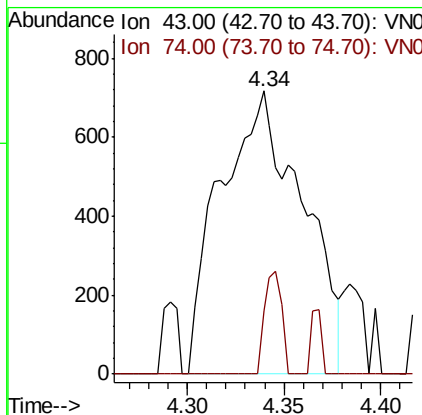
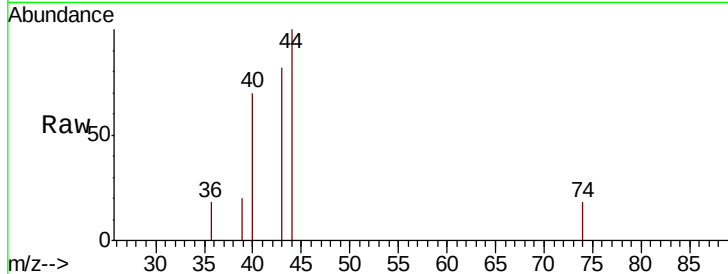




#18
Methyl Acetate
Concen: 1.084 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

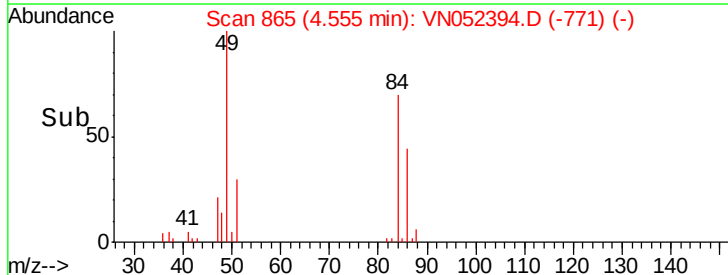
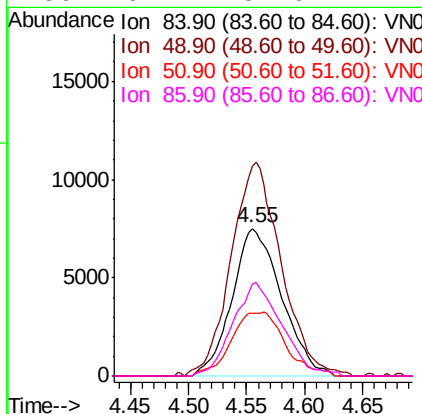
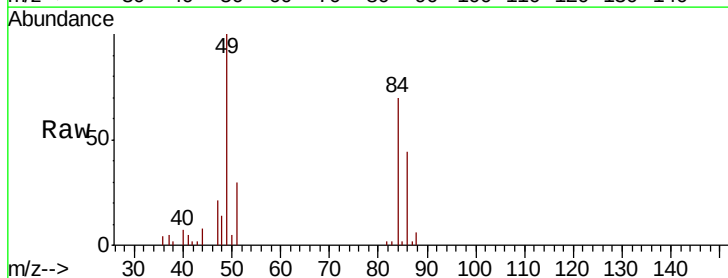
Instrument :
MSVOA_N
ClientSampleId :
BU-03-111518

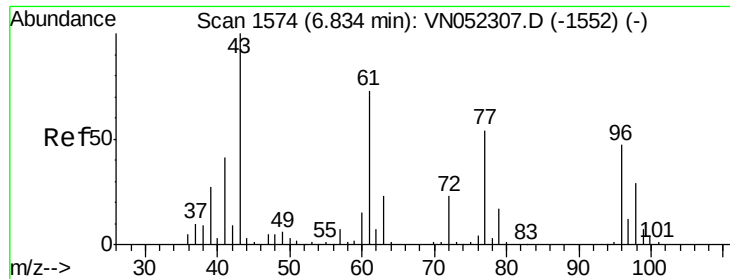
Tot Ion: 43 Resp: 2122
Ion Ratio Lower Upper
43 100
74 7.6 15.9 23.9#



#20
Methylene Chloride
Concen: 5.745 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Tgt Ion: 84 Resp: 22270
Ion Ratio Lower Upper
84 100
49 139.4 118.2 177.2
51 42.9 36.1 54.1
86 62.7 51.6 77.4

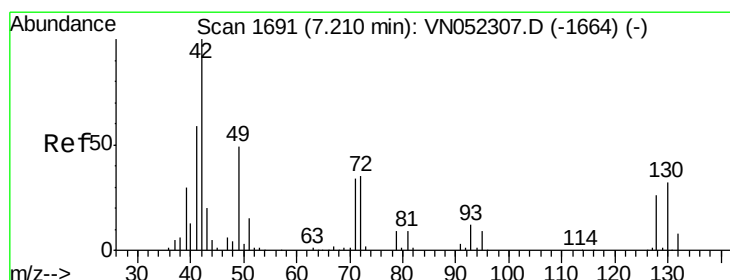
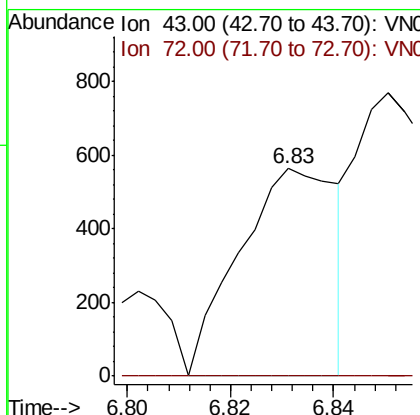
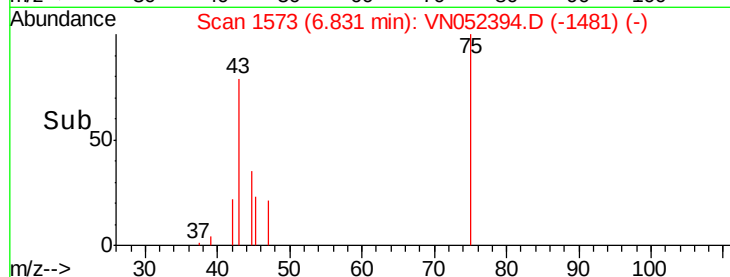
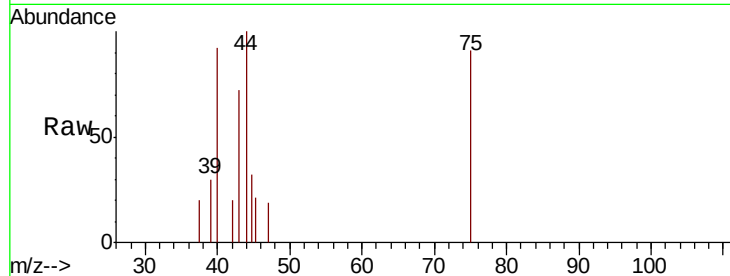




#25
2-Butanone
Concen: 0.456 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

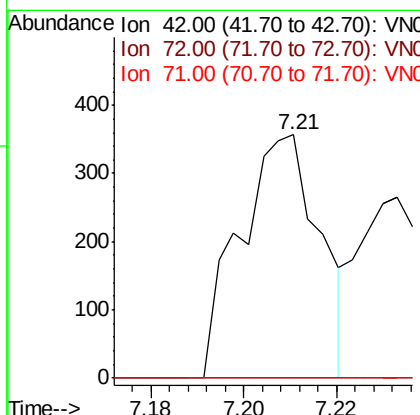
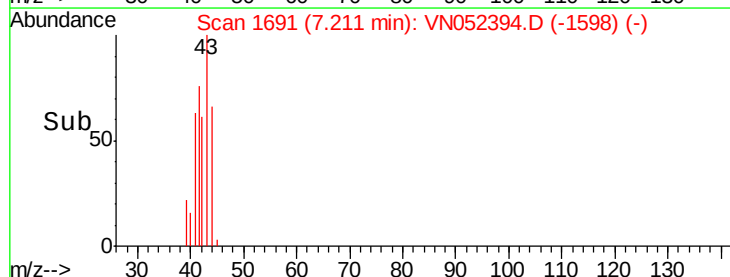
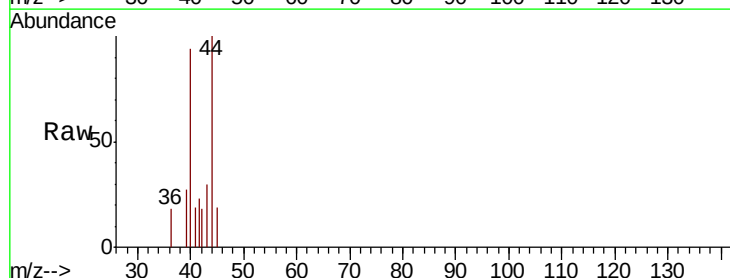
Instrument :
MSVOA_N
ClientSampleId :
BU-03-111518

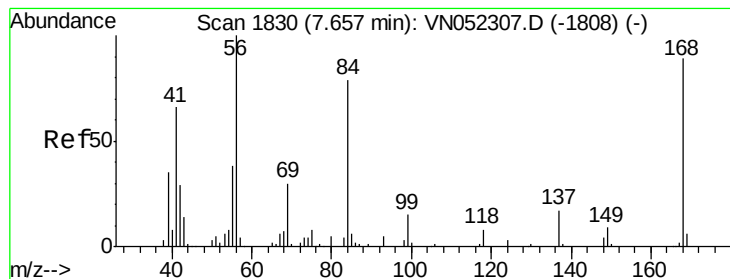
Tot Ion: 43 Resp: 738
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#29
Tetrahydrofuran
Concen: 0.402 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Tgt Ion: 42 Resp: 428
Ion Ratio Lower Upper
42 100
72 0.0 28.6 42.8#
71 0.0 26.7 40.1#





#31

Cyclohexane

Concen: 0.464 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052394.D

Acq: 19 Nov 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

BU-03-111518

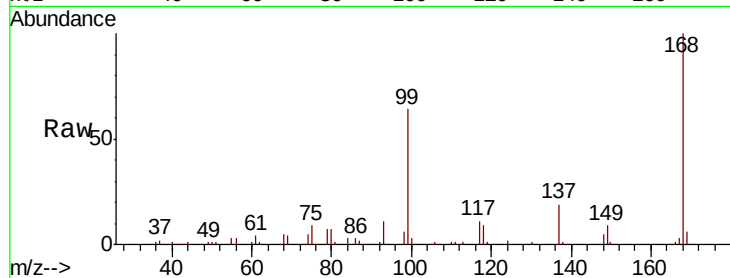
Tot Ion: 56 Resp: 9622

Ion Ratio Lower Upper

56 100

69 121.6 23.8 35.8#

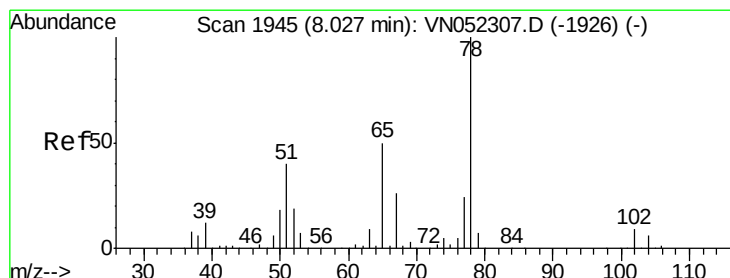
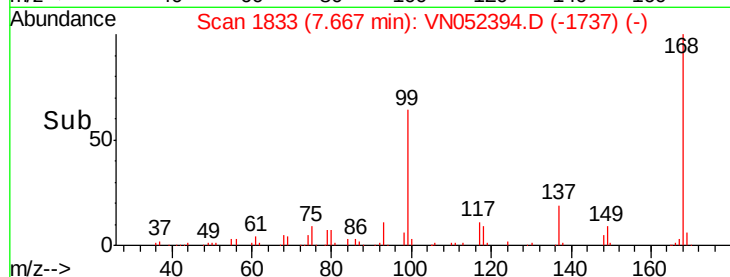
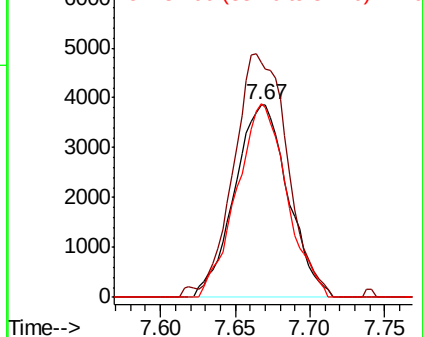
84 100.7 63.0 94.6#



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: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052394.D

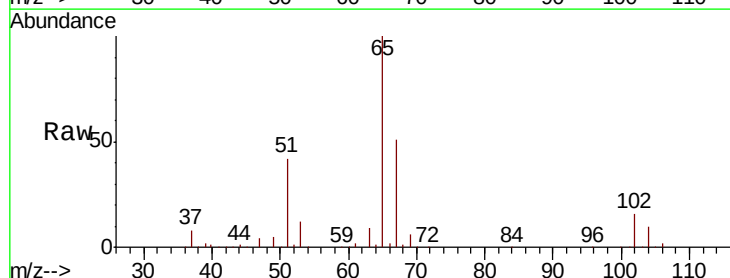
Acq: 19 Nov 2018 19:20

Tgt Ion: 65 Resp: 219646

Ion Ratio Lower Upper

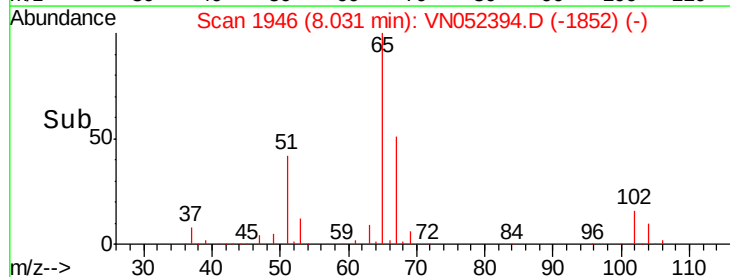
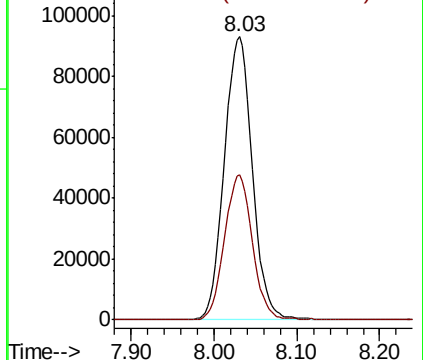
65 100

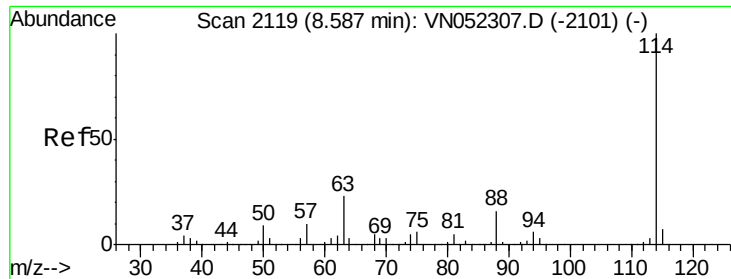
67 50.8 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

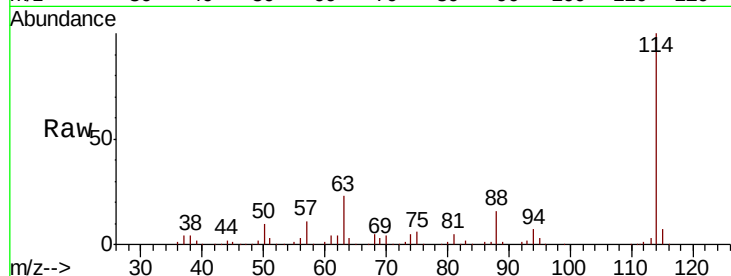




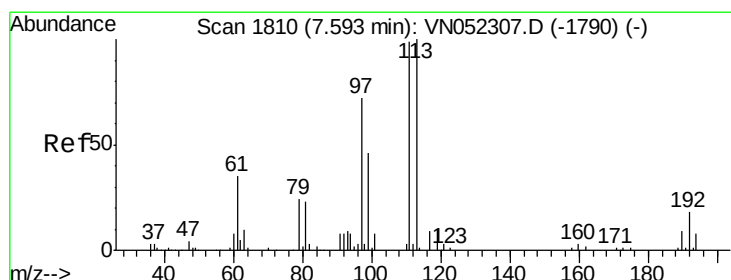
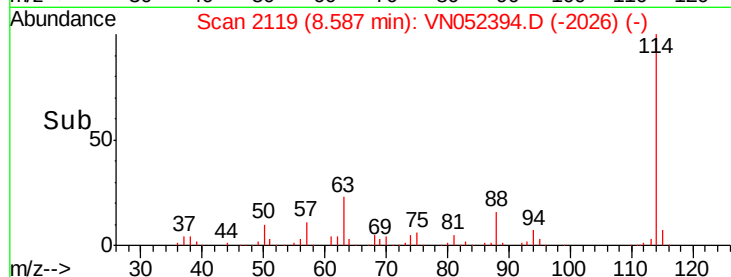
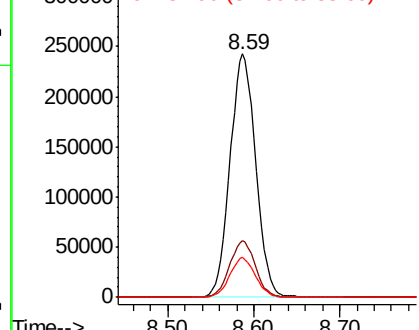
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	45.4
88	16.2	0.0	31.2

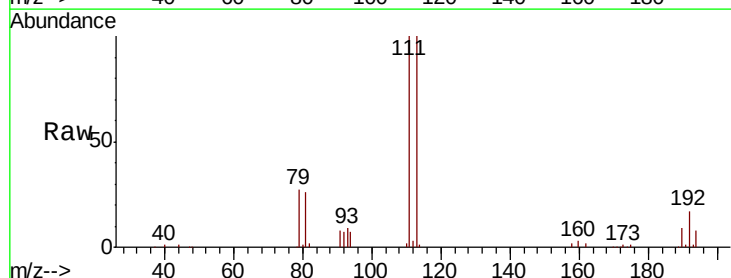


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

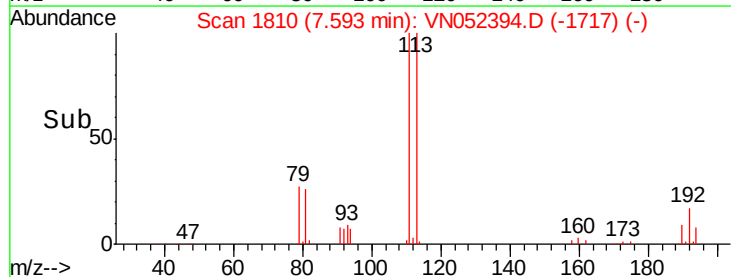
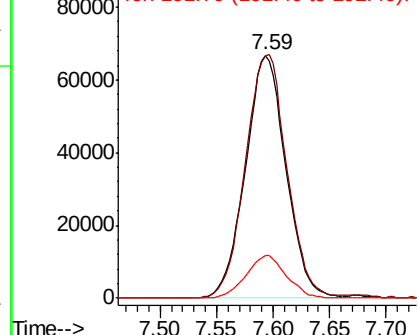


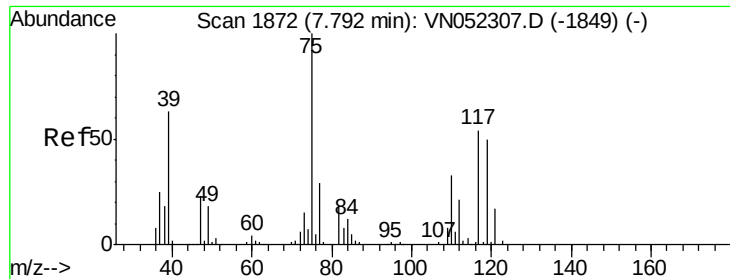
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.0	121.6
192	17.4	13.8	20.6



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





#36

1,1-Dichloropropene

Concen: 5.530 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052394.D

Acq: 19 Nov 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

BU-03-111518

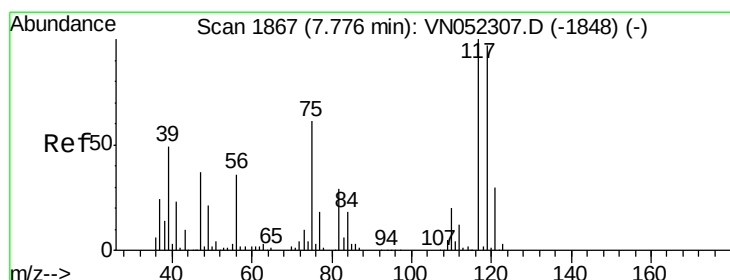
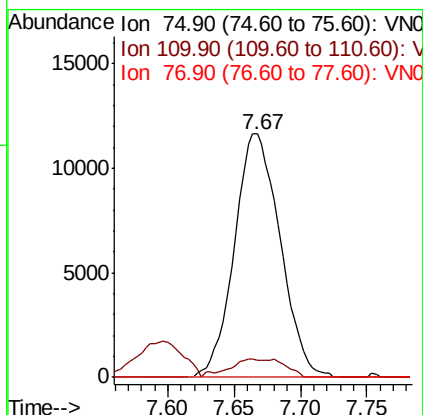
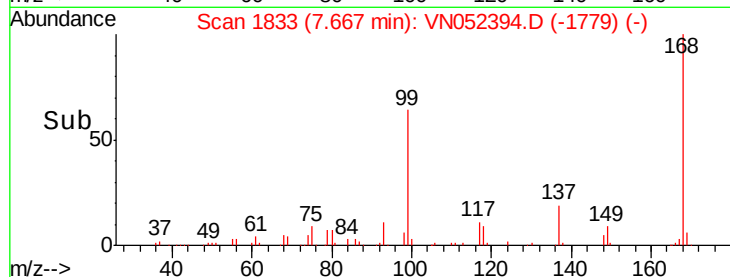
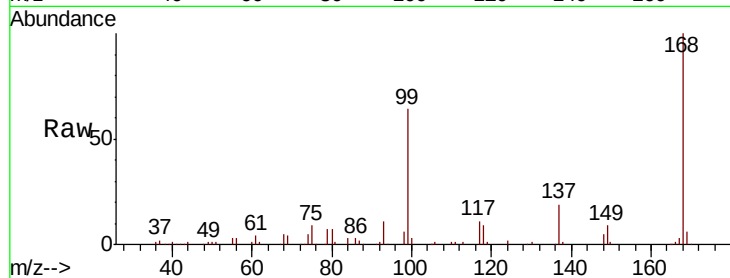
Tot Ion: 75 Resp: 27894

Ion Ratio Lower Upper

75 100

110 5.8 16.5 49.5#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 6.991 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052394.D

Acq: 19 Nov 2018 19:20

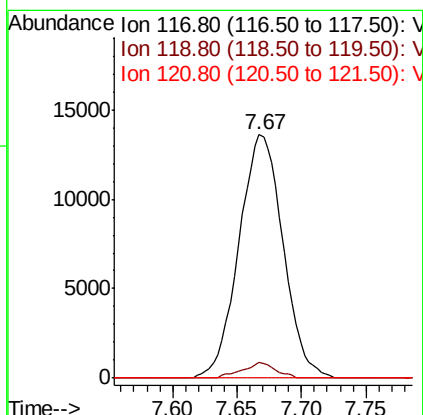
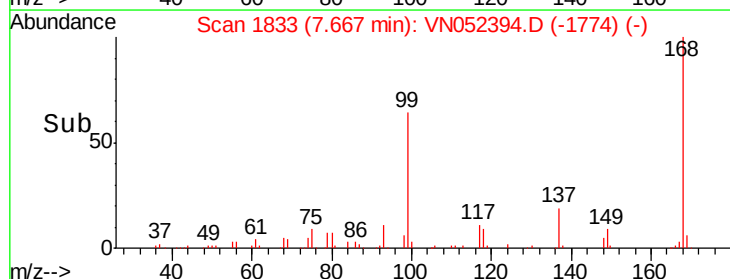
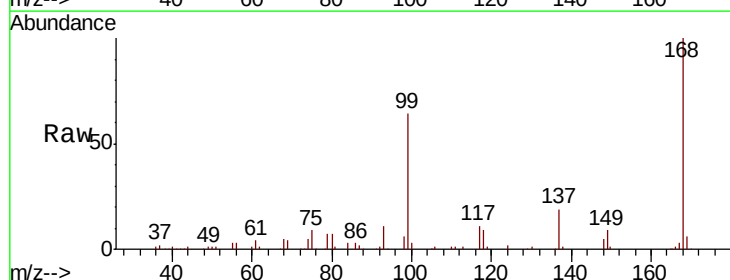
Tgt Ion: 117 Resp: 32397

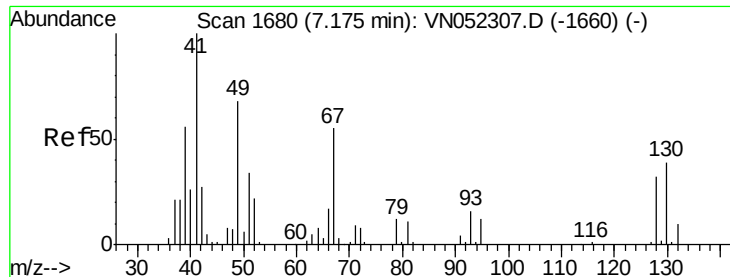
Ion Ratio Lower Upper

117 100

119 6.3 77.4 116.0#

121 0.0 24.0 36.0#

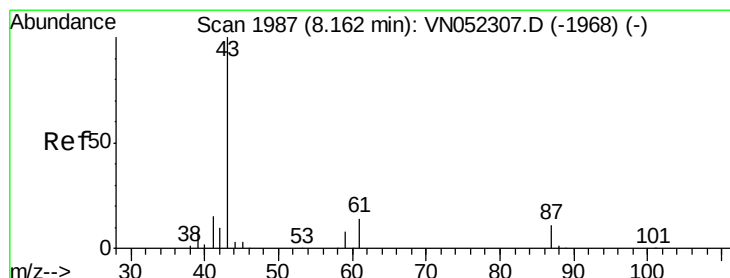
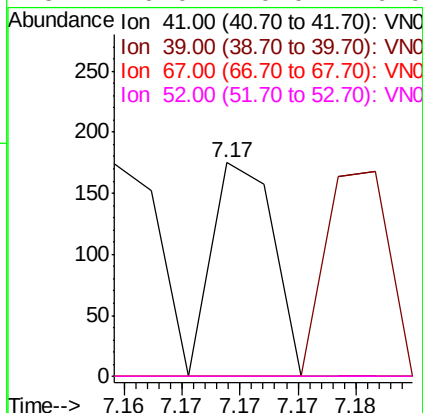
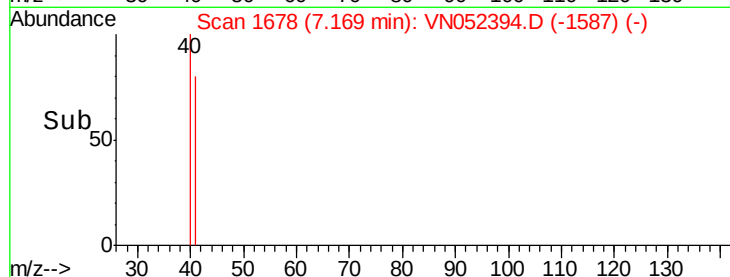
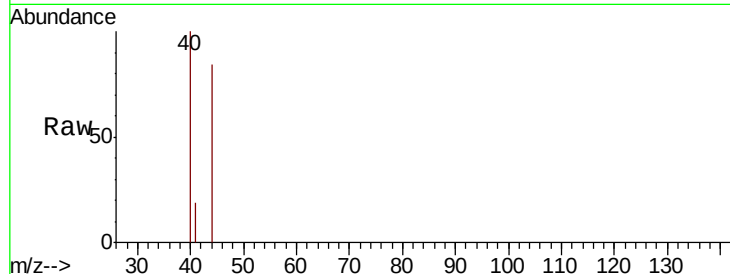




#41
Methacrylonitrile
Concen: 3.725 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.01 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

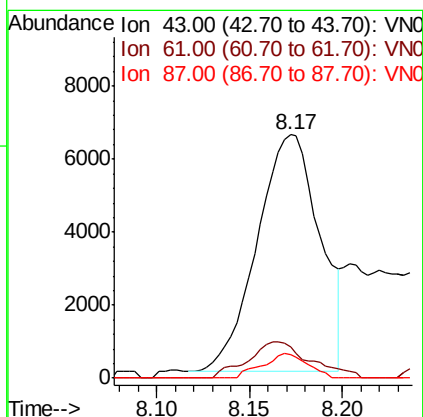
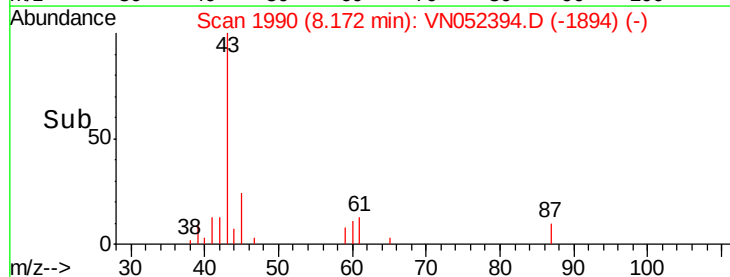
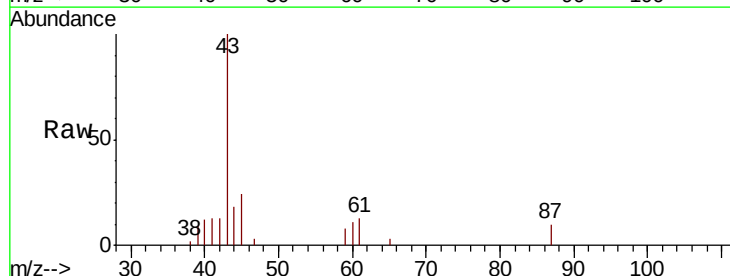
Instrument :
MSVOA_N
ClientSampled :
BU-03-111518

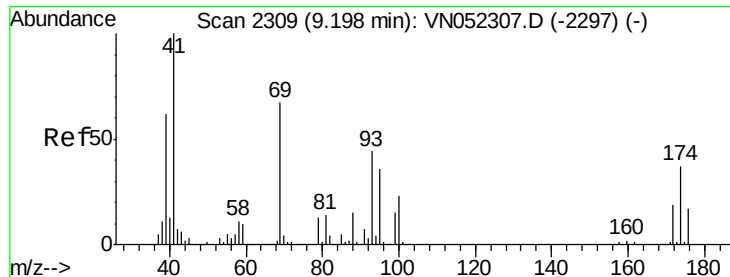
Tot Ion:	41	Resp:	64
Ion	Ratio	Lower	Upper
41	100		
39	100.0	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 2.160 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Tgt Ion:	43	Resp:	15258
Ion	Ratio	Lower	Upper
43	100		
61	15.3	12.0	18.0
87	7.5	8.3	12.5#

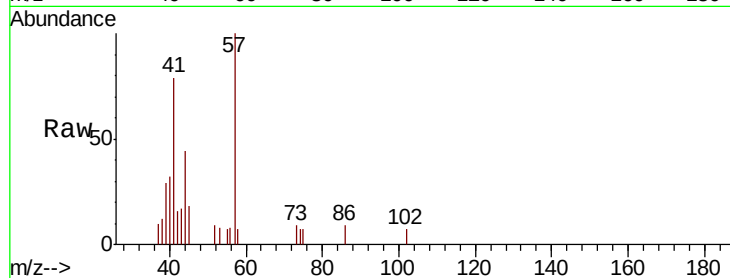




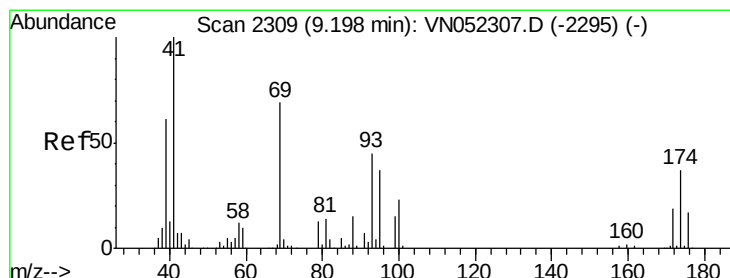
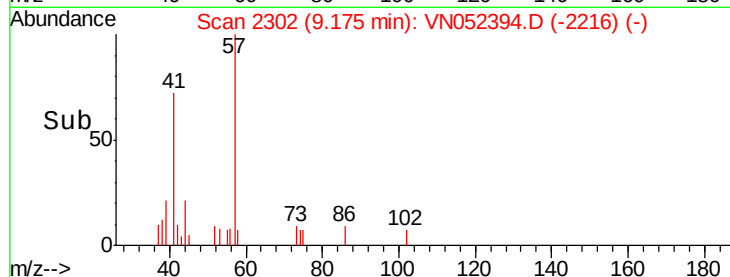
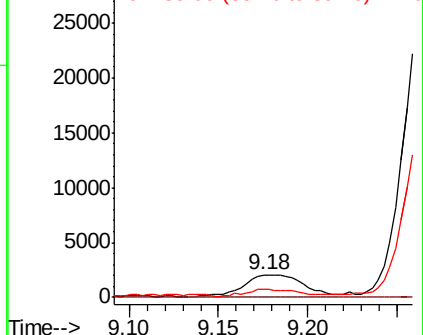
#48
Methvl methacrylate
Concen: 1.380 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Instrument :
MSVOA_N
ClientSampleId :
BU-03-111518

Tot Ion: 41 Resp: 4947
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#

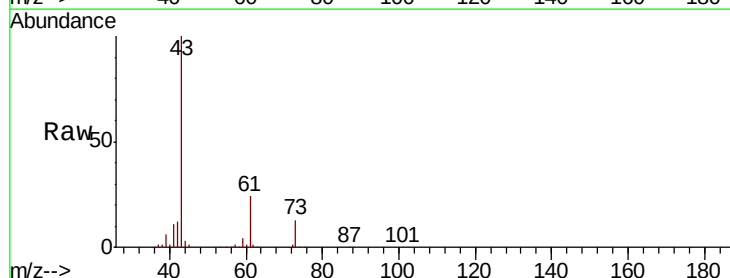


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

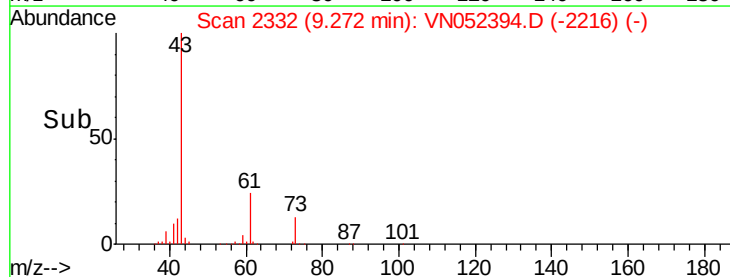
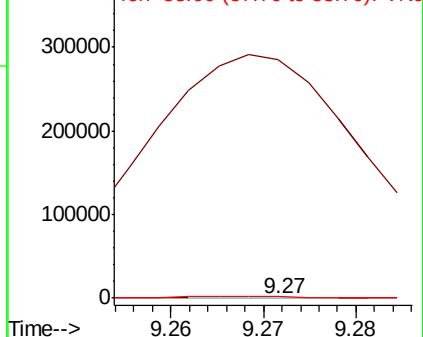


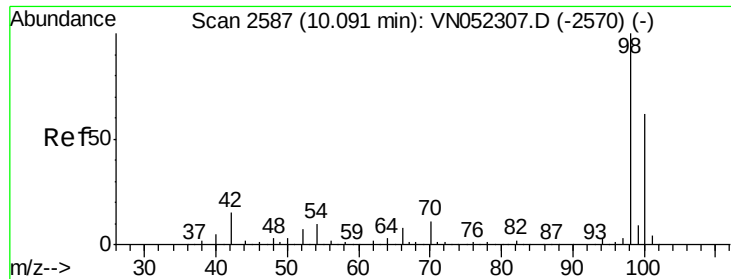
#49
1,4-Dioxane
Concen: 2.399 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 818184.8 33.3 49.9#
58 4225.8 59.2 88.8#



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

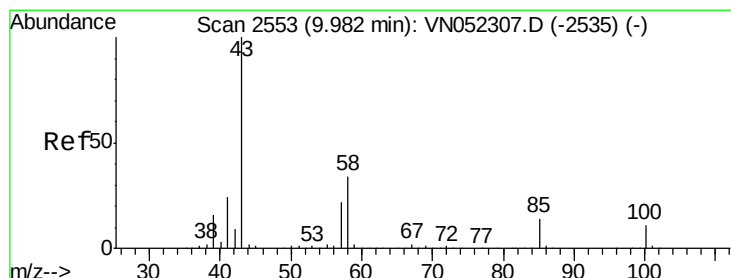
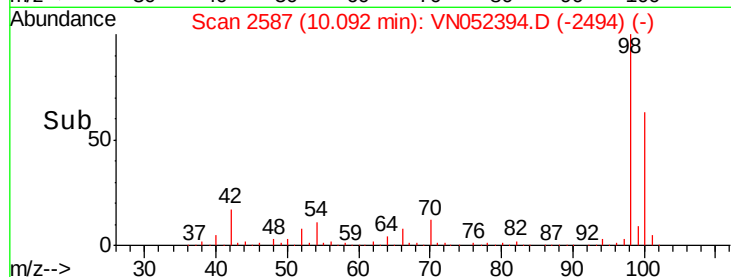
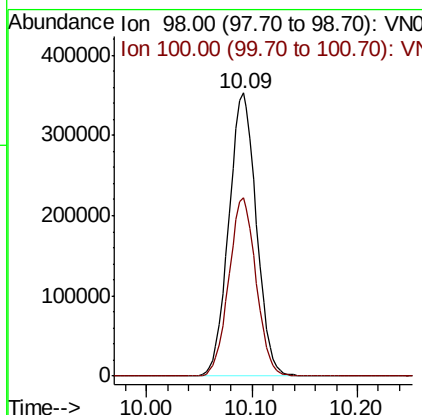
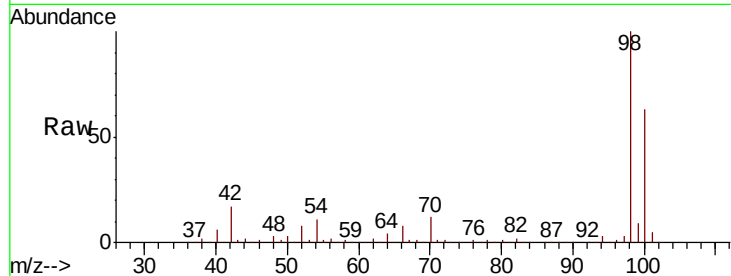




#50
Toluene-d8
Concen: 2.399 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

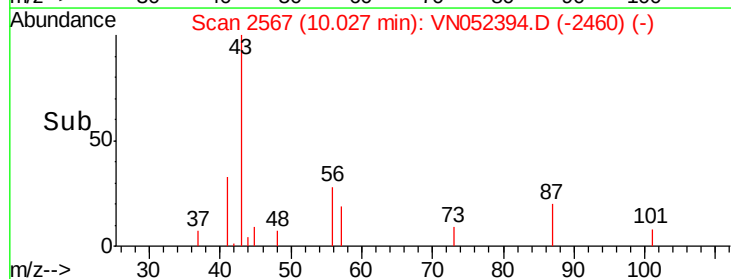
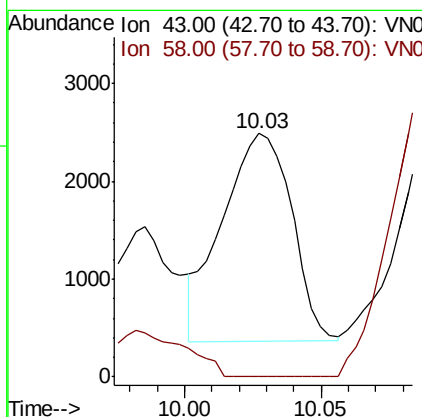
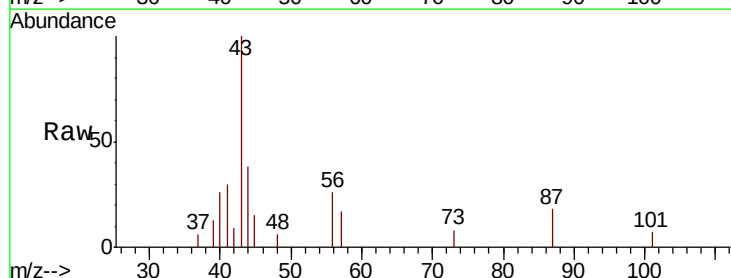
Instrument :
MSVOA_N
ClientSampled :
BU-03-111518

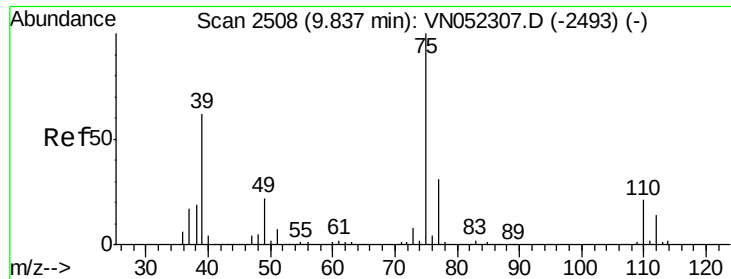
Tot Ion: 98 Resp: 637688
Ion Ratio Lower Upper
98 100
100 62.4 49.5 74.3



#51
4-Methyl-2-Pentanone
Concen: 1.057 ug/l
RT: 10.03 min Scan# 2567
Delta R.T. 0.05 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Tgt Ion: 43 Resp: 3758
Ion Ratio Lower Upper
43 100
58 0.0 27.0 40.6#





#54

cis-1,3-Dichloropropene

Concen: 4.378 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052394.D

Acq: 19 Nov 2018 19:20

Instrument :

MSVOA_N

ClientSampleId :

BU-03-111518

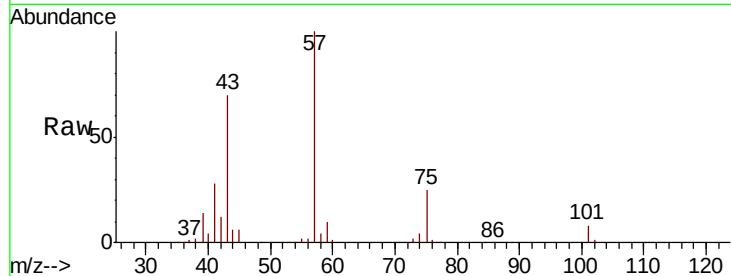
Tot Ion: 75 Resp: 24453

Ion Ratio Lower Upper

75 100

77 1.3 24.6 36.8#

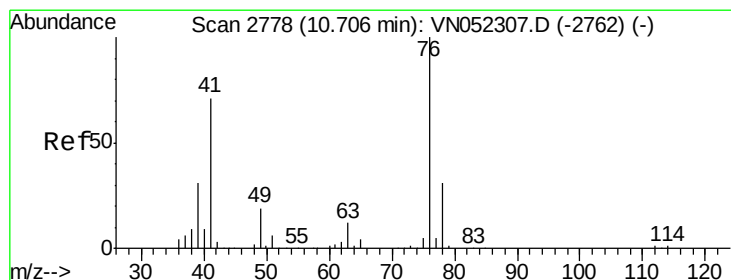
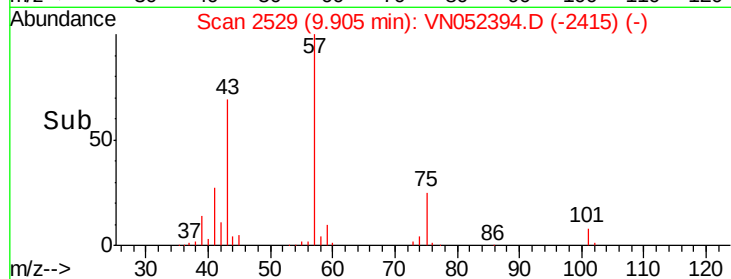
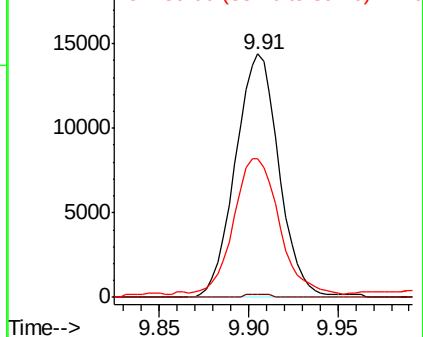
39 54.9 49.9 74.9



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.804 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052394.D

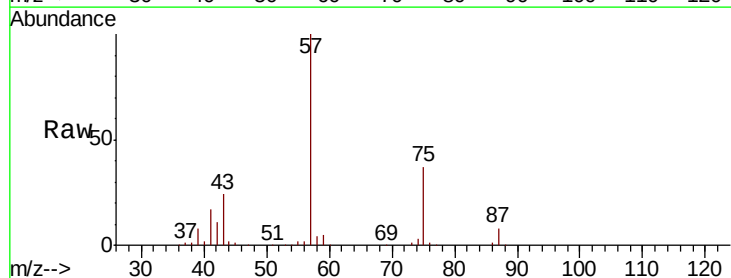
Acq: 19 Nov 2018 19:20

Tgt Ion: 76 Resp: 4452

Ion Ratio Lower Upper

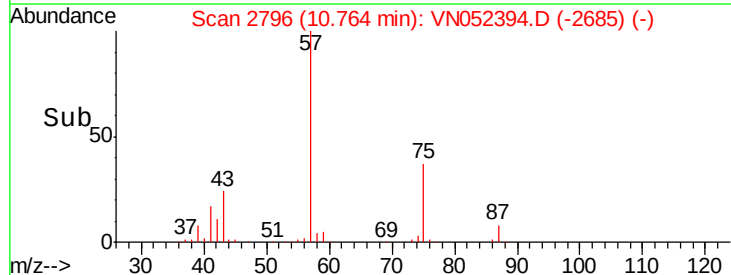
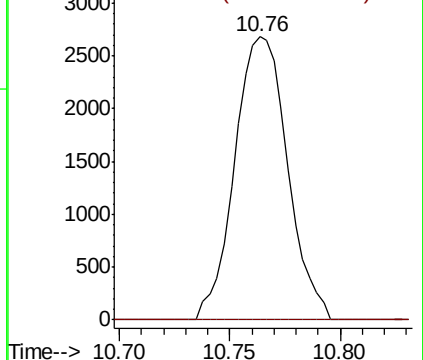
76 100

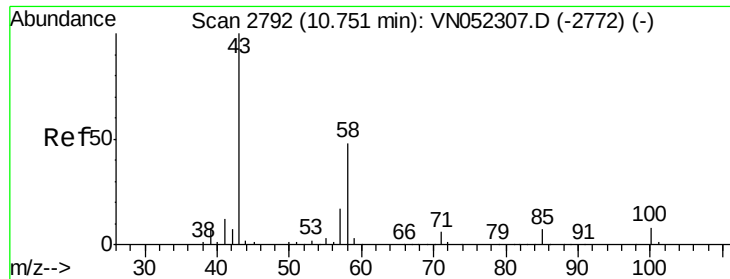
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

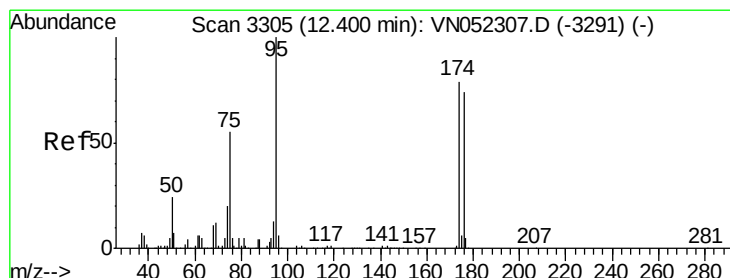
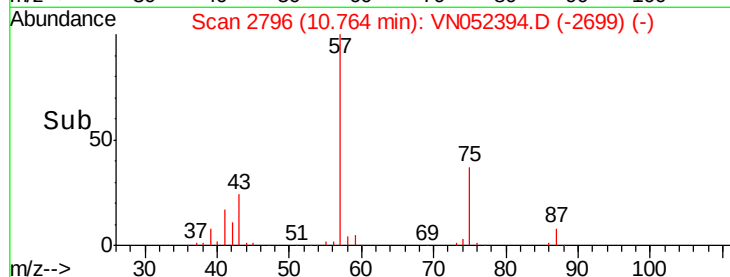
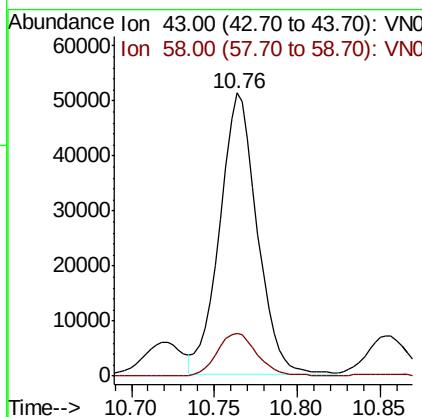
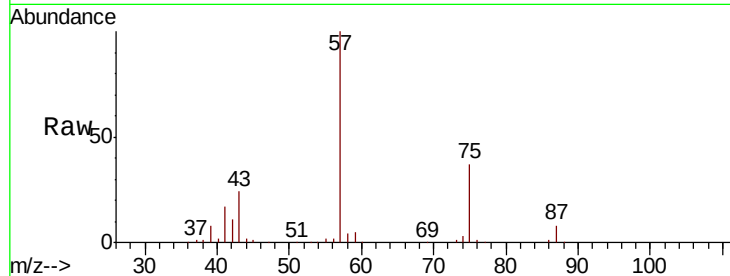




#59
2-Hexanone
Concen: 32.931 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

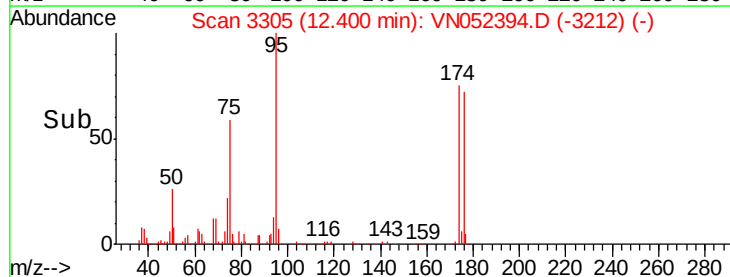
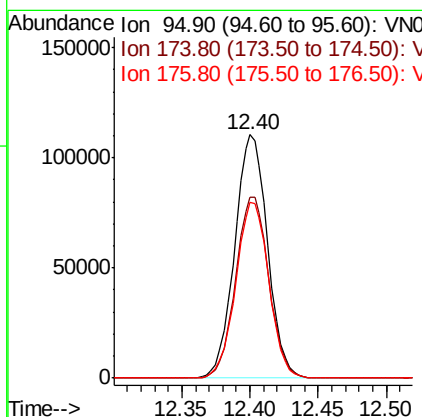
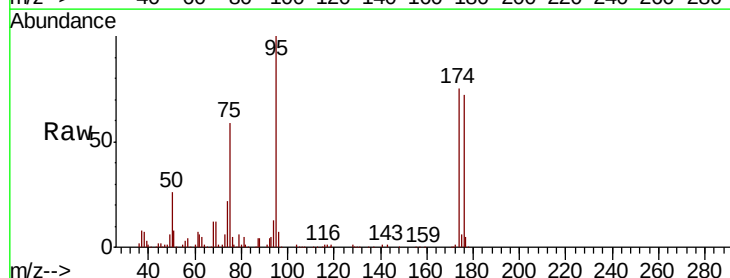
Instrument :
MSVOA_N
ClientSampleId :
BU-03-111518

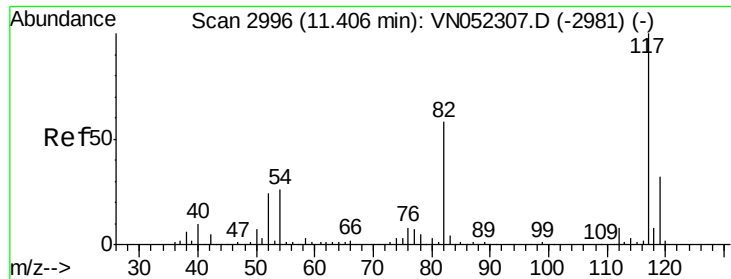
Tot Ion: 43 Resp: 80538
Ion Ratio Lower Upper
43 100
58 16.4 23.5 70.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Tgt Ion: 95 Resp: 183546
Ion Ratio Lower Upper
95 100
174 75.8 0.0 156.0
176 72.9 0.0 148.4

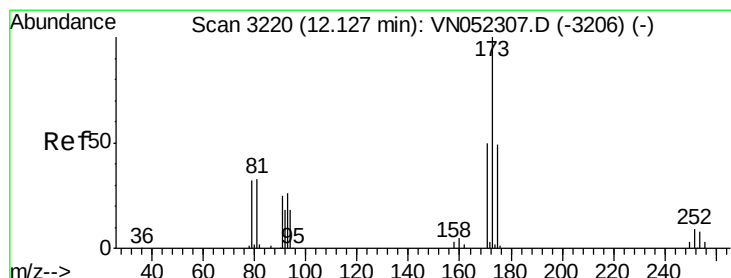
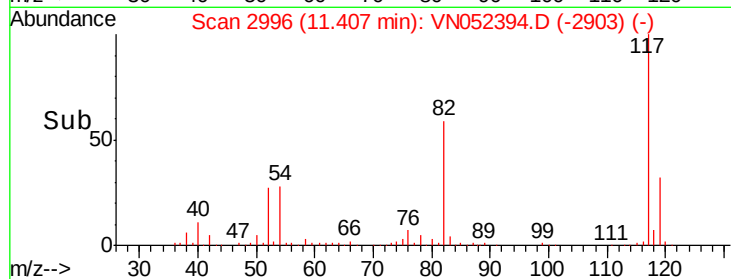
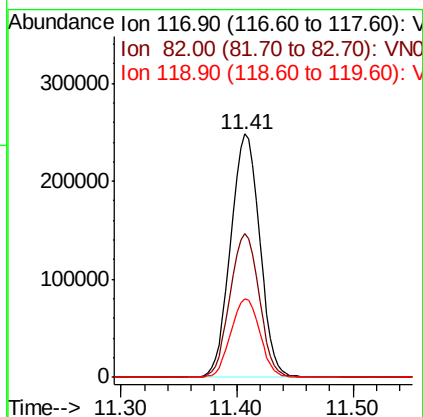
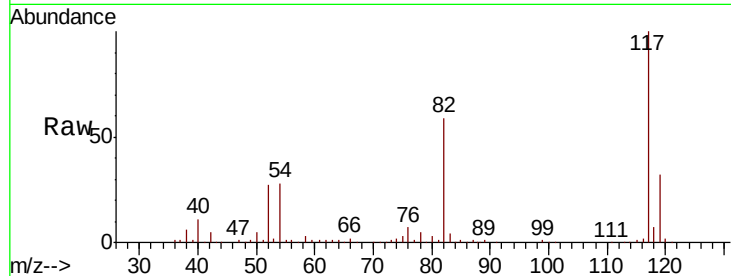




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

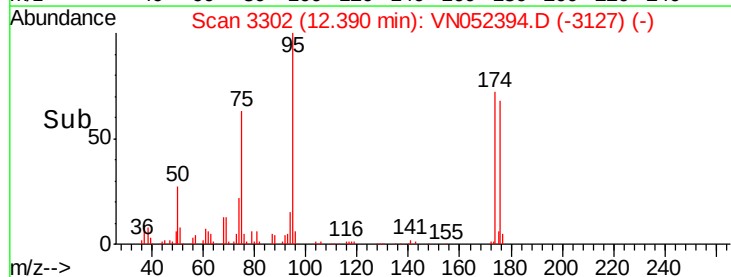
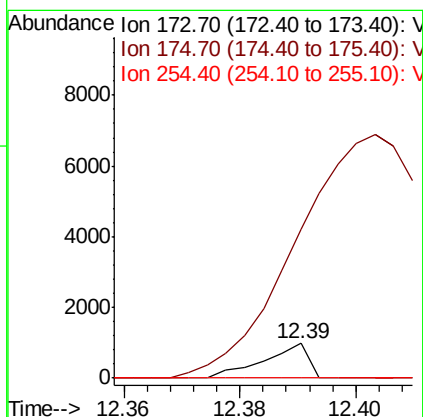
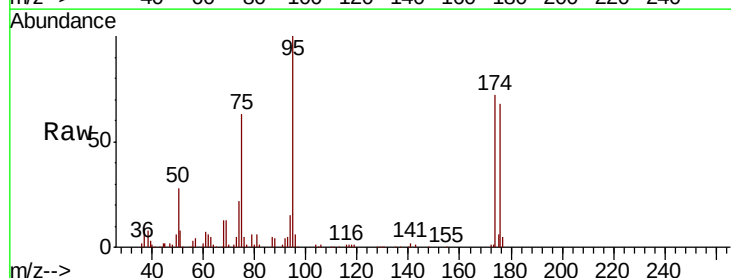
Instrument :
MSVOA_N
ClientSampleId :
BU-03-111518

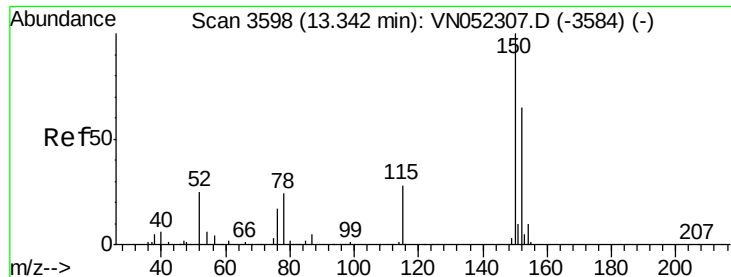
Tot Ion:117 Resp: 429550
Ion Ratio Lower Upper
117 100
82 58.8 46.5 69.7
119 32.2 25.7 38.5



#71
Bromoform
Concen: 0.287 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN052394.D
Acq: 19 Nov 2018 19:20

Tgt Ion:173 Resp: 524
Ion Ratio Lower Upper
173 100
175 1944.8 25.0 75.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052394.D

Acq: 19 Nov 2018 19:20

Instrument :

MSVOA_N

ClientSampled :

BU-03-111518

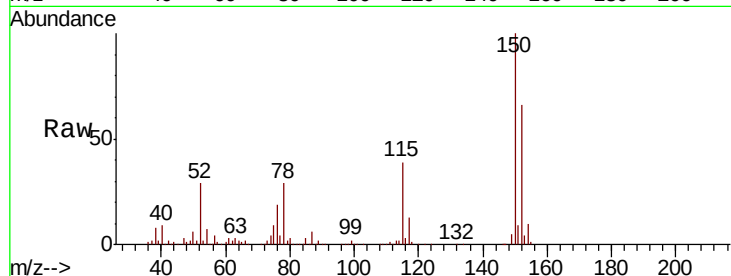
Tot Ion:152 Resp: 149100

Ion Ratio Lower Upper

152 100

115 59.8 30.3 91.0

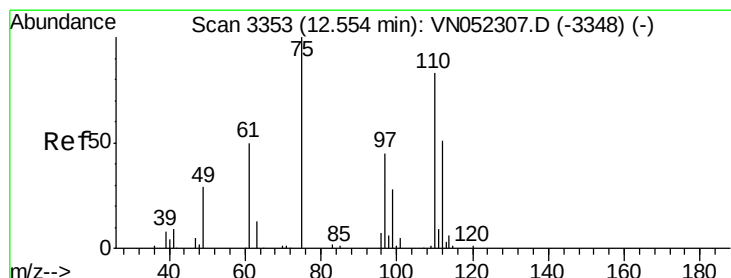
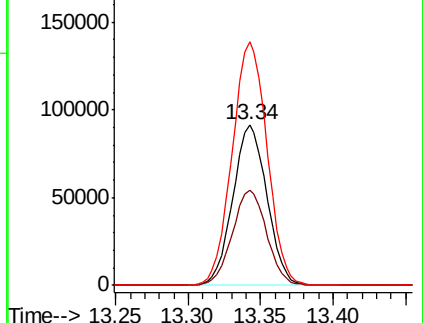
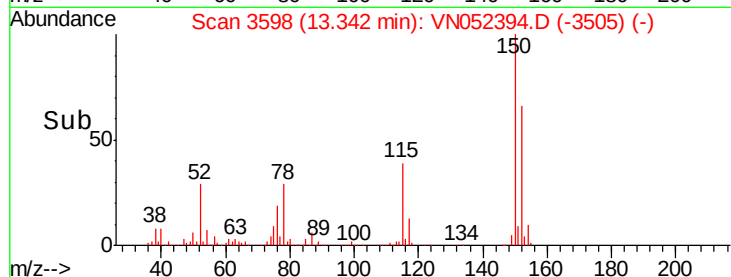
150 155.6 0.0 348.2



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



#76

1,2,3-Trichloropropane

Concen: 43.237 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052394.D

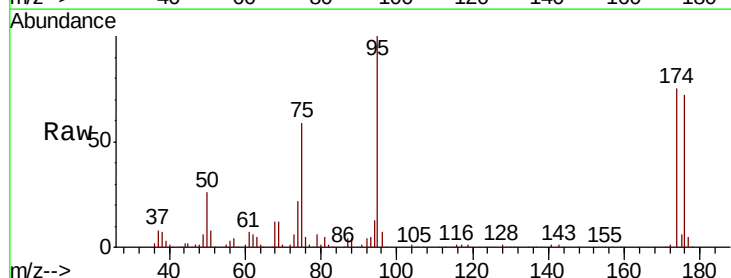
Acq: 19 Nov 2018 19:20

Tgt Ion: 75 Resp: 109388

Ion Ratio Lower Upper

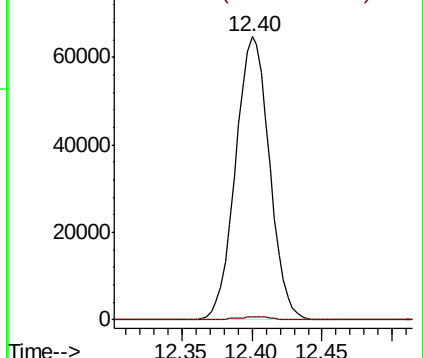
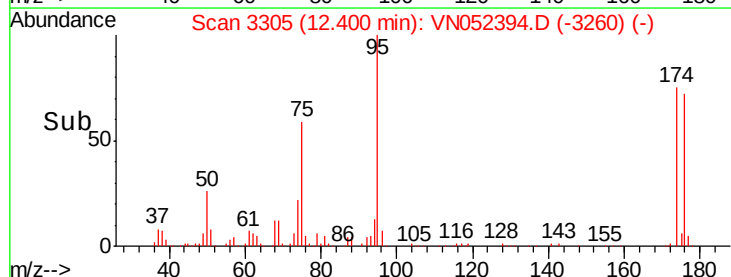
75 100

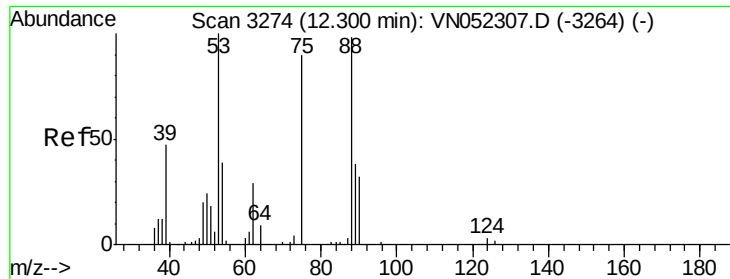
77 1.2 0.0 0.0#



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: 140.235 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052394.D

Acq: 19 Nov 2018 19:20

Instrument :

MSVOA_N

ClientSampled :

BU-03-111518

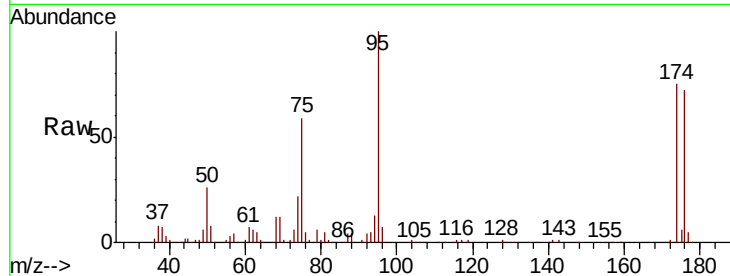
Tot Ion: 75 Resp: 109388

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

89 0.0 35.4 53.0#

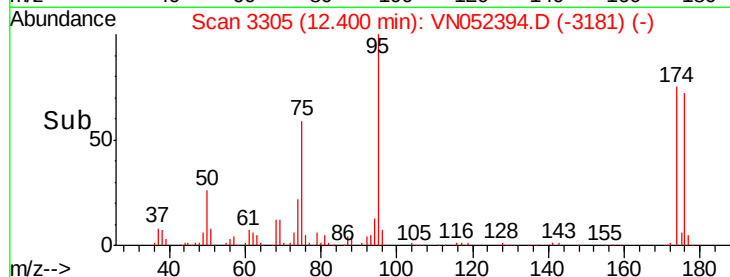


Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052307.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052307.D (-3264) (-)

Time-->

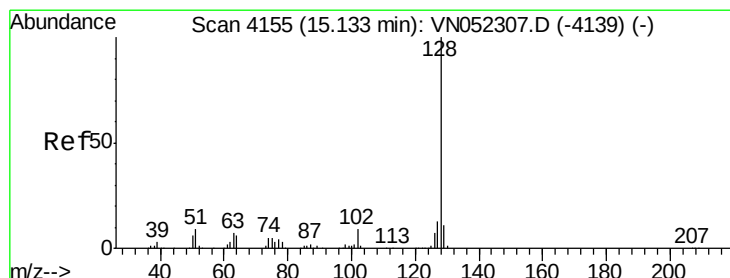


Abundance Ion 74.90 (74.60 to 75.60): VN052394.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN052394.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN052394.D (-3181) (-)

Time-->



#95

Naphthalene

Concen: 2.842 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052394.D

Acq: 19 Nov 2018 19:20

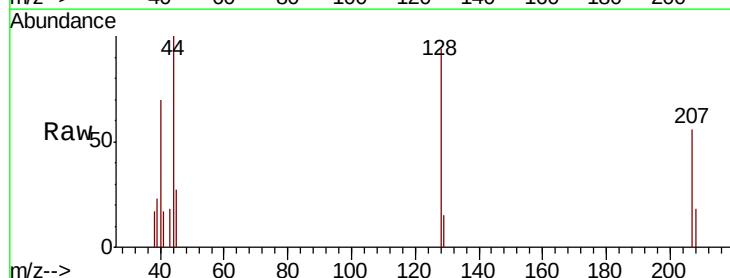
Tgt Ion: 128 Resp: 1320

Ion Ratio Lower Upper

128 100

127 4.4 10.4 15.6#

129 4.8 8.6 13.0#

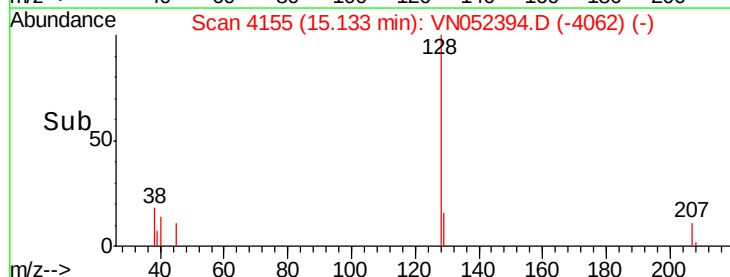


Abundance Ion 128.00 (127.70 to 128.70): VN052307.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN052307.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN052307.D (-4139) (-)

Time-->



Abundance Ion 128.00 (127.70 to 128.70): VN052394.D (-4062) (-)

Ion 127.00 (126.70 to 127.70): VN052394.D (-4062) (-)

Ion 129.00 (128.70 to 129.70): VN052394.D (-4062) (-)

Time-->