

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111518\
 Data File : VN052341.D
 Acq On : 15 Nov 2018 14:53
 Operator : MD\SY
 Sample : PB114828ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 16 02:52:05 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	326478	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	544273	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	463097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	153628	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	227384	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
35) Dibromofluoromethane	7.59	113	177191	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
50) Toluene-d8	10.09	98	692507	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
62) 4-Bromofluorobenzene	12.40	95	196960	43.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.70%	

Target Compounds

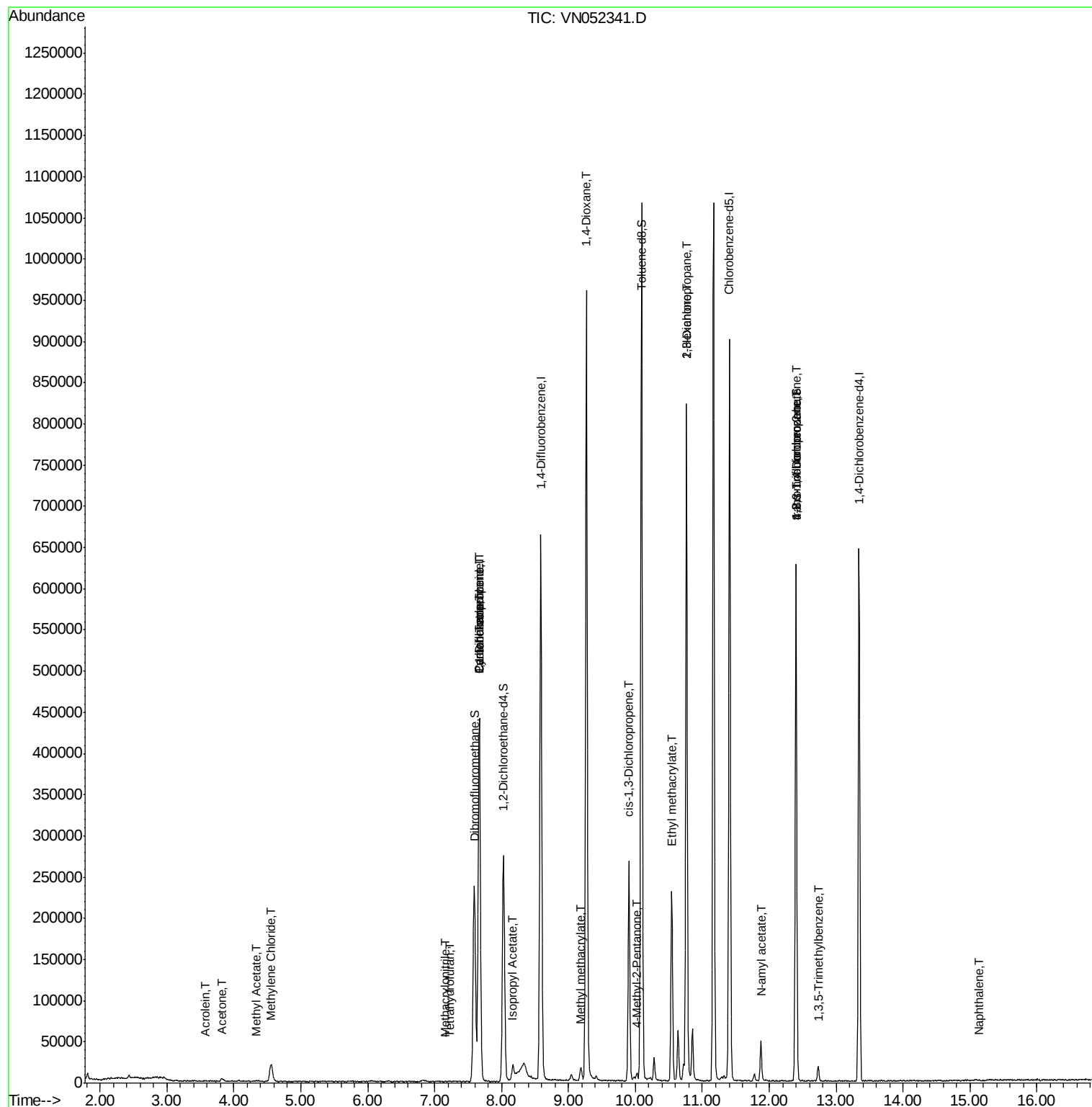
						Qvalue
13) Acrolein	3.59	56	60	21.920	ug/l #	68
16) Acetone	3.82	43	6388	5.032	ug/l	98
18) Methyl Acetate	4.33	43	392	0.541	ug/l #	36
20) Methylene Chloride	4.56	84	13695	2.886	ug/l	95
29) Tetrahydrofuran	7.22	42	610	0.520	ug/l #	54
31) Cyclohexane	7.67	56	9759	0.339	ug/l #	30
36) 1,1-Dichloropropene	7.66	75	29802	5.463	ug/l #	52
38) Carbon Tetrachloride	7.67	117	35493	7.082	ug/l #	16
41) Methacrylonitrile	7.16	41	131	3.751	ug/l #	100
43) Isopropyl Acetate	8.17	43	22423	2.935	ug/l	96
48) Methyl methacrylate	9.17	41	5415	1.397	ug/l #	16
49) 1,4-Dioxane	9.26	88	64	2.151	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7275	1.892	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	41718	6.906	ug/l #	67
56) Ethyl methacrylate	10.54	69	1093	0.246	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8288	1.384	ug/l #	43
59) 2-Hexanone	10.76	43	135325	51.160	ug/l #	54
74) N-amyl acetate	11.88	43	16629	3.780	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	110548	42.408	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8499	0.865	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	110548	137.545	ug/l #	5
95) Naphthalene	15.13	128	32	2.610	ug/l #	69

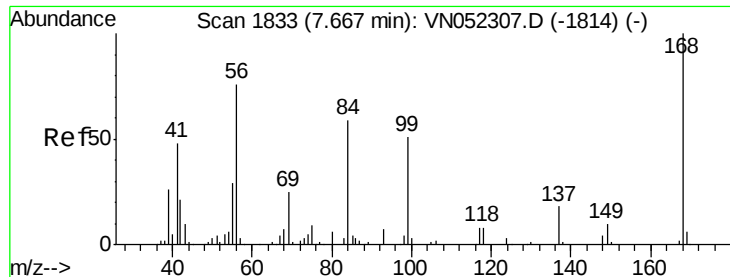
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

Instrument :

MSVOA_N

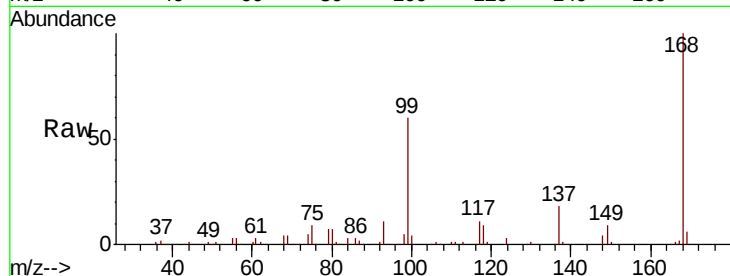
ClientSampled :

Tot Ion:168 Resp: 326478

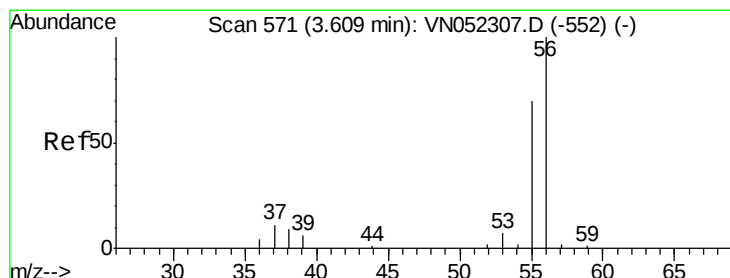
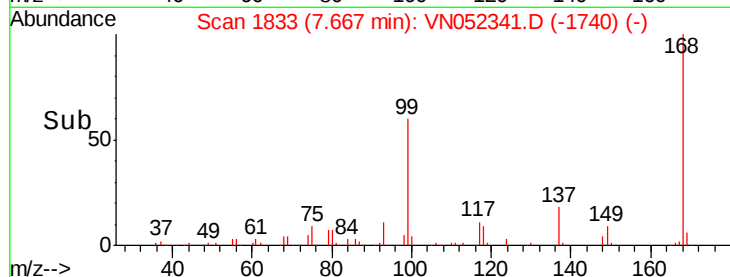
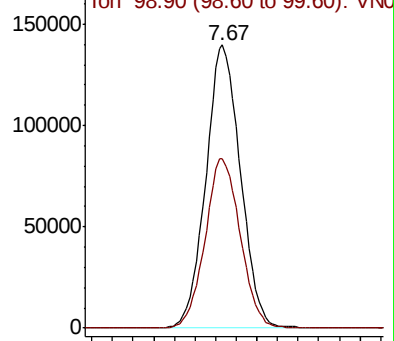
Ion Ratio Lower Upper

168 100

99 59.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)



#13

Acrolein

Concen: 21.920 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.02 min

Lab File: VN052341.D

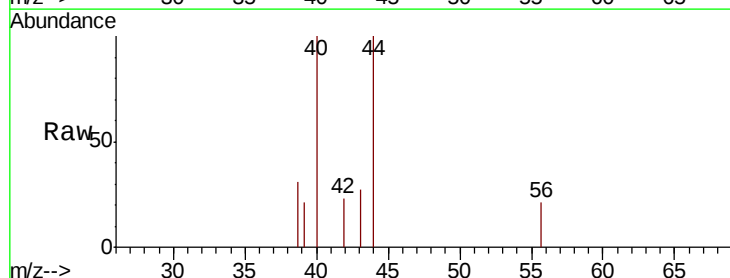
Acq: 15 Nov 2018 14:53

Tgt Ion: 56 Resp: 60

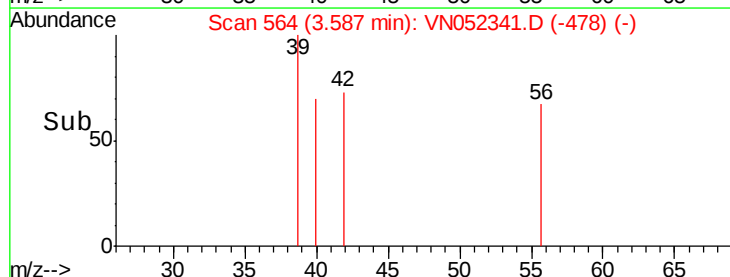
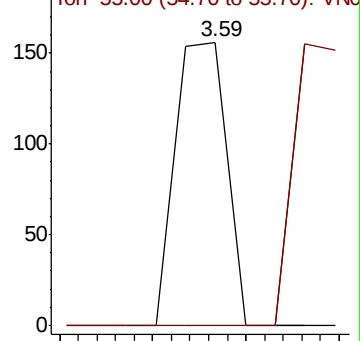
Ion Ratio Lower Upper

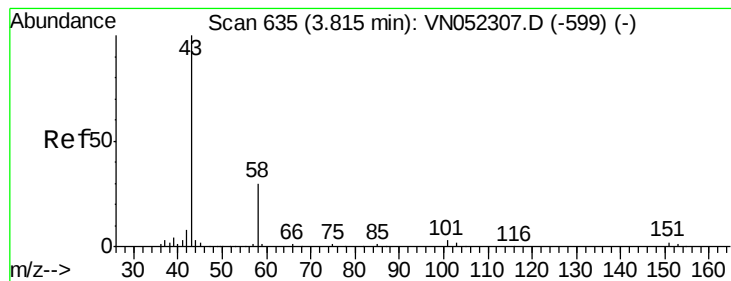
56 100

55 98.3 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN052307.D (-552) (-)





#16

Acetone

Concen: 5.032 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

Instrument :

MSVOA_N

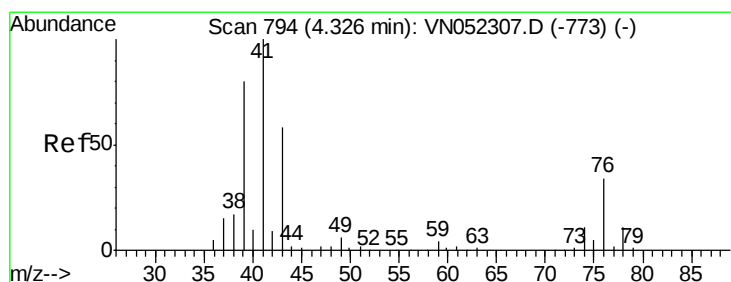
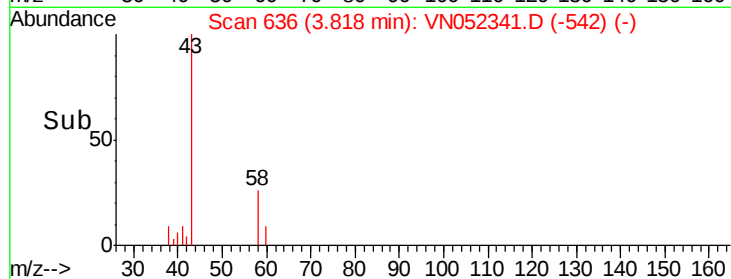
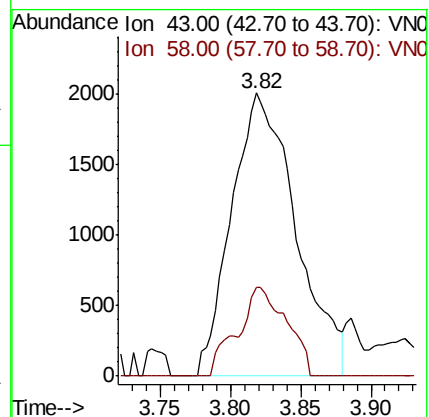
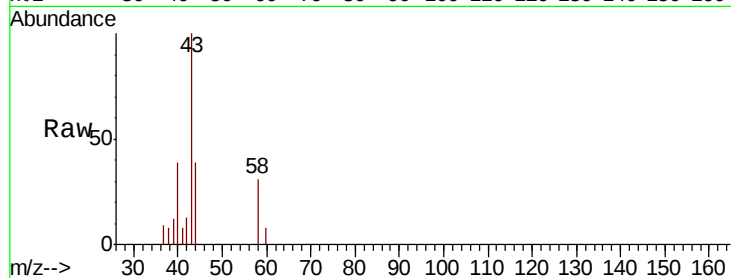
ClientSampled :

Tot Ion: 43 Resp: 6388

Ion Ratio Lower Upper

43 100

58 31.4 24.2 36.4



#18

Methyl Acetate

Concen: 0.541 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052341.D

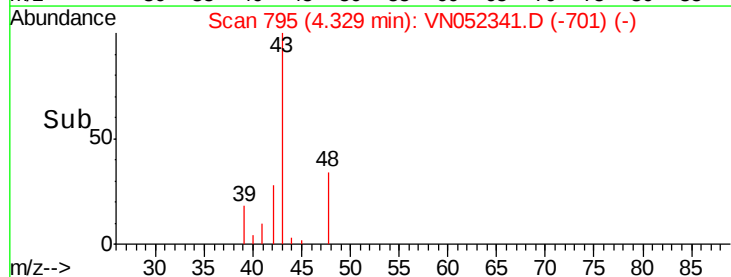
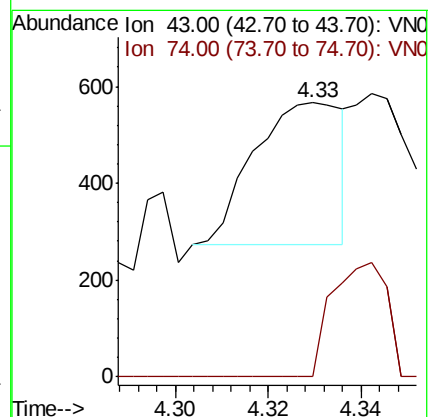
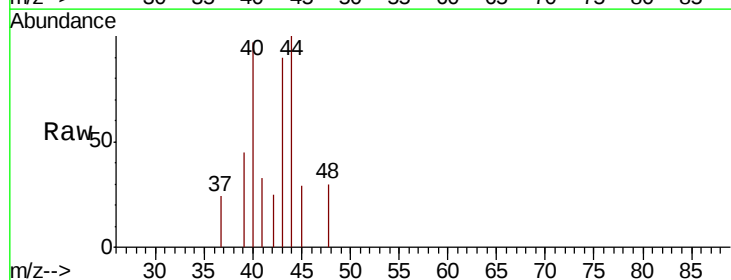
Acq: 15 Nov 2018 14:53

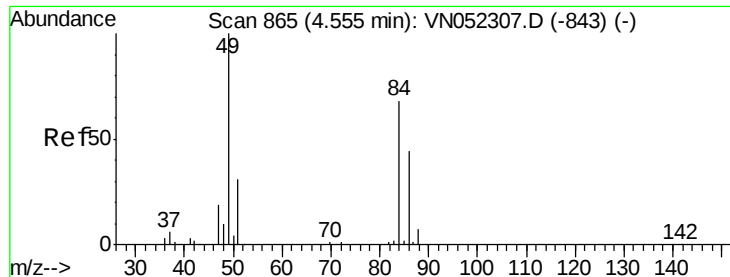
Tgt Ion: 43 Resp: 392

Ion Ratio Lower Upper

43 100

74 49.2 15.9 23.9#

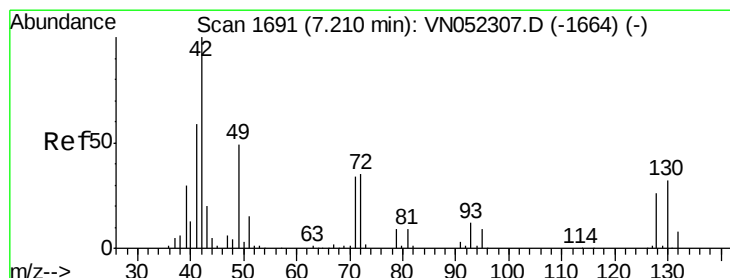
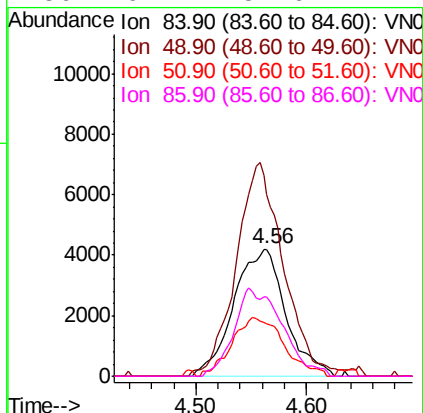
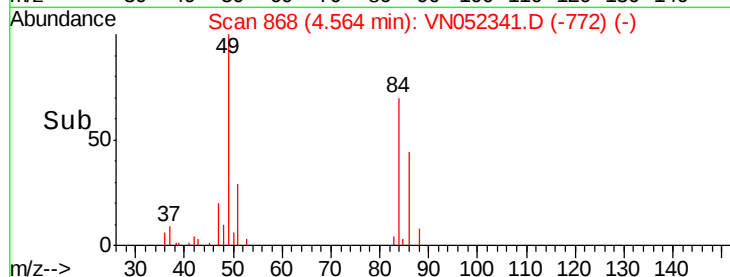
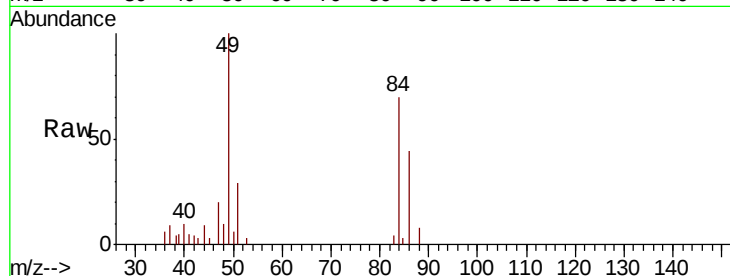




#20
Methvlene Chloride
Concen: 2.886 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN052341.D
Acq: 15 Nov 2018 14:53

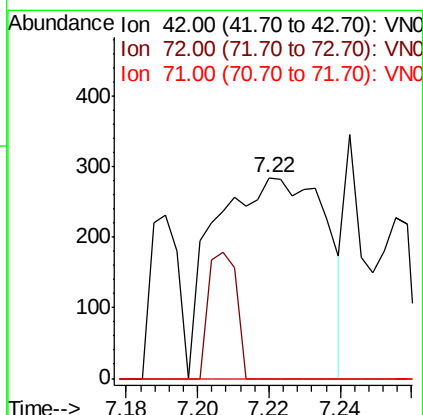
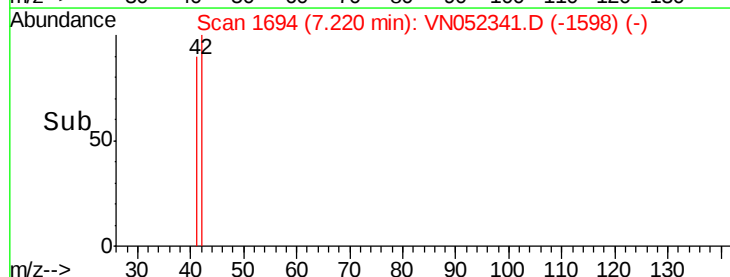
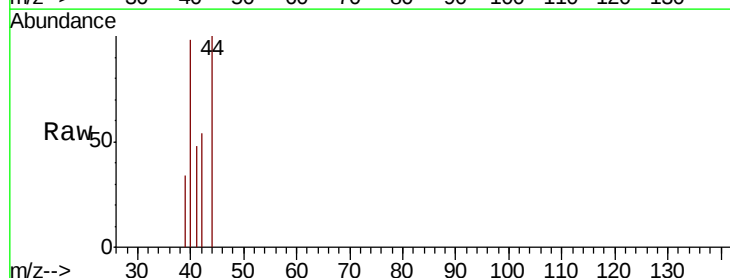
Instrument :
MSVOA_N
ClientSampled :

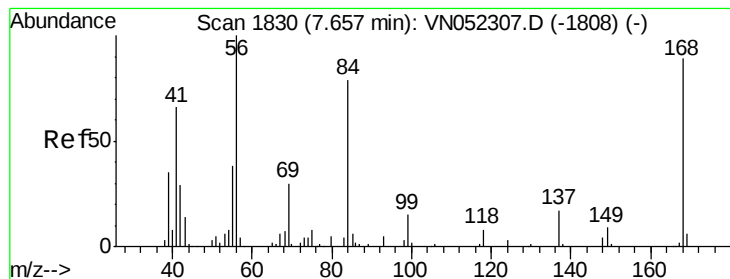
Tot Ion:	84	Resp:	13695
Ion	Ratio	Lower	Upper
84	100		
49	142.8	118.2	177.2
51	36.8	36.1	54.1
86	62.4	51.6	77.4



#29
Tetrahydrofuran
Concen: 0.520 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052341.D
Acq: 15 Nov 2018 14:53

Tgt Ion:	42	Resp:	610
Ion	Ratio	Lower	Upper
42	100		
72	15.9	28.6	42.8#
71	0.0	26.7	40.1#





#31

Cyclohexane

Concen: 0.339 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

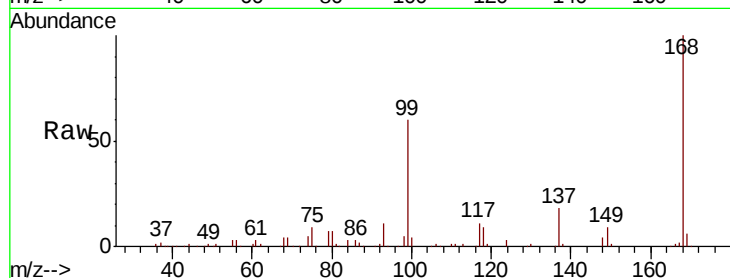
Tot Ion: 56 Resp: 9759

Ion Ratio Lower Upper

56 100

69 142.7 23.8 35.8#

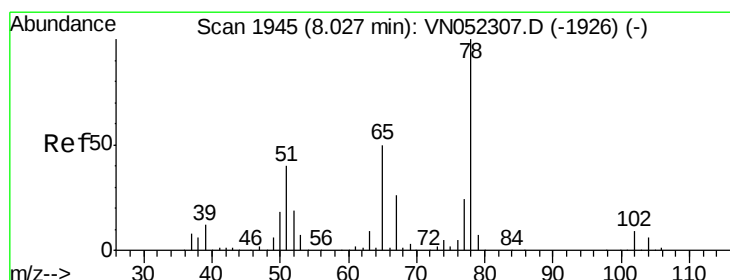
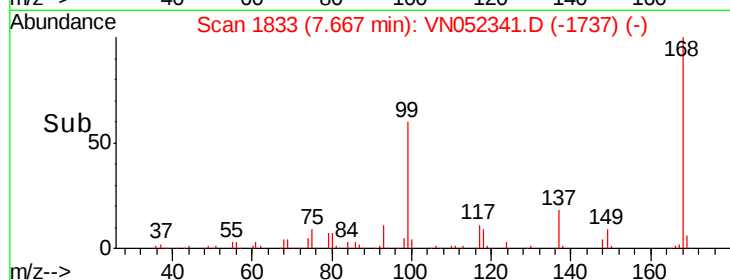
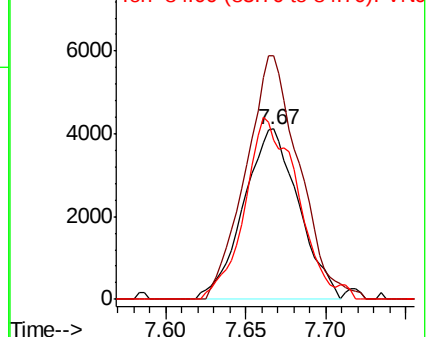
84 93.7 63.0 94.6



Abundance Ion 56.00 (55.70 to 56.70): VN052307.D (-1808) (-)

Ion 69.00 (68.70 to 69.70): VN052307.D (-1808) (-)

Ion 84.00 (83.70 to 84.70): VN052307.D (-1808) (-)



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052341.D

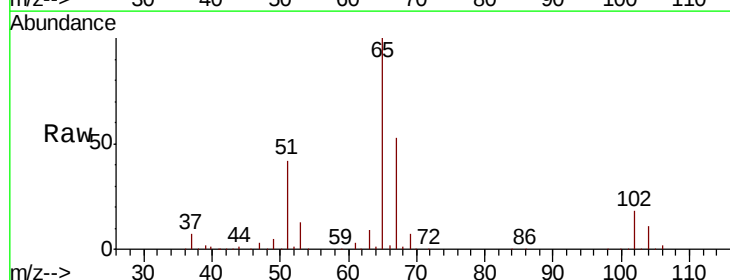
Acq: 15 Nov 2018 14:53

Tgt Ion: 65 Resp: 227384

Ion Ratio Lower Upper

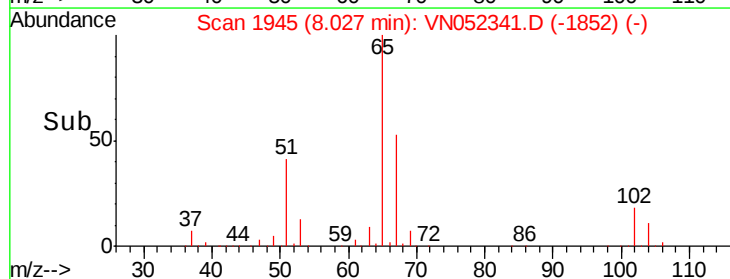
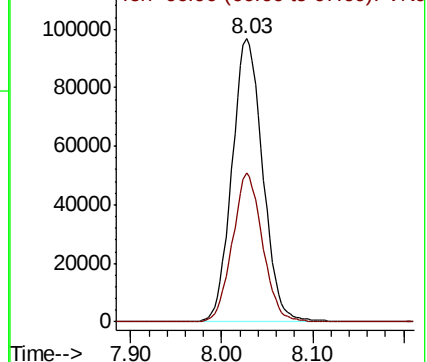
65 100

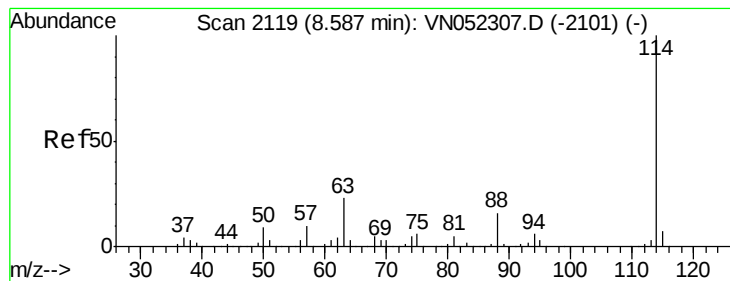
67 51.3 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN052307.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN052307.D (-1926) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

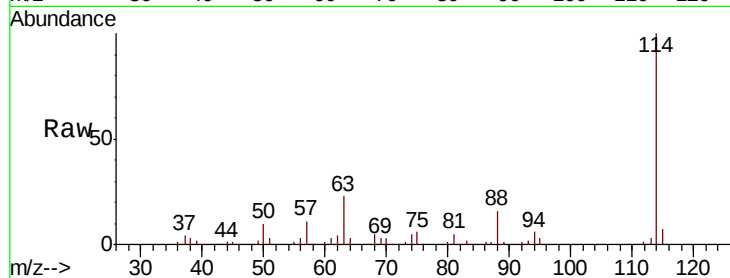
Tot Ion:114 Resp: 544273

Ion Ratio Lower Upper

114 100

63 23.1 0.0 45.4

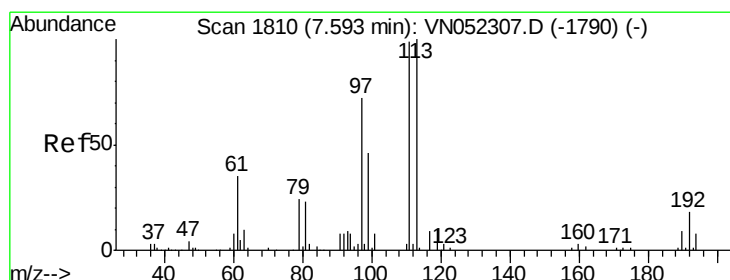
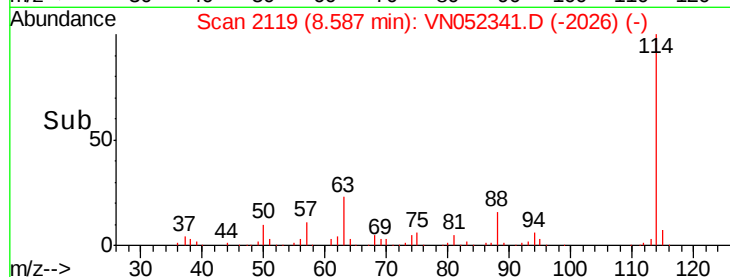
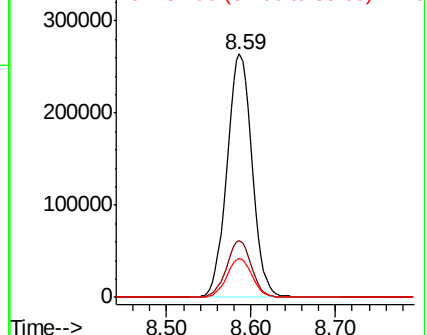
88 15.8 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

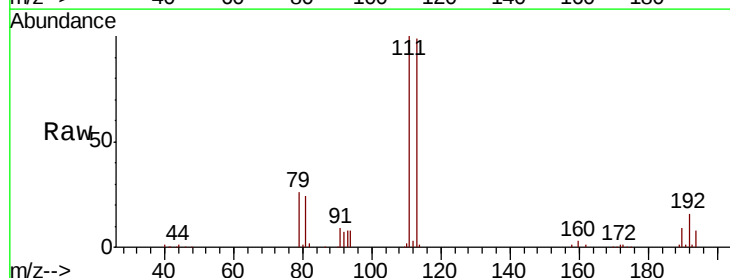
Tgt Ion:113 Resp: 177191

Ion Ratio Lower Upper

113 100

111 100.9 81.0 121.6

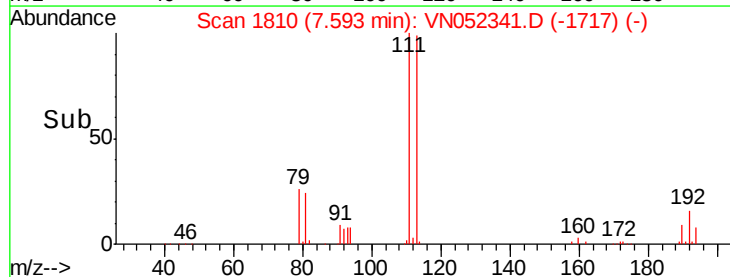
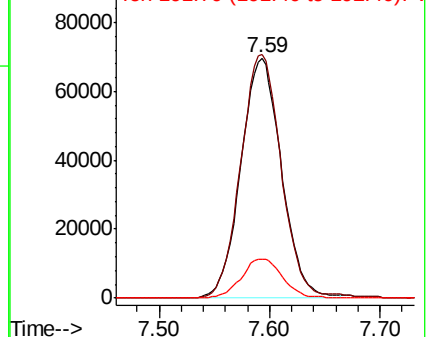
192 16.6 13.8 20.6

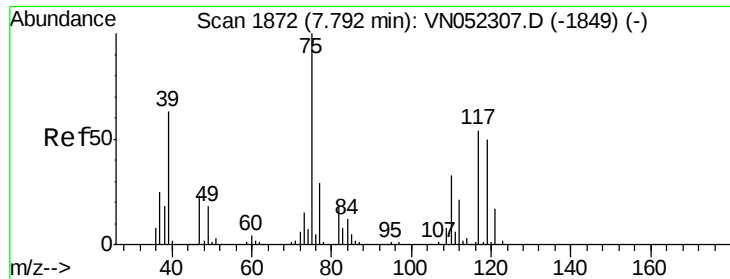


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

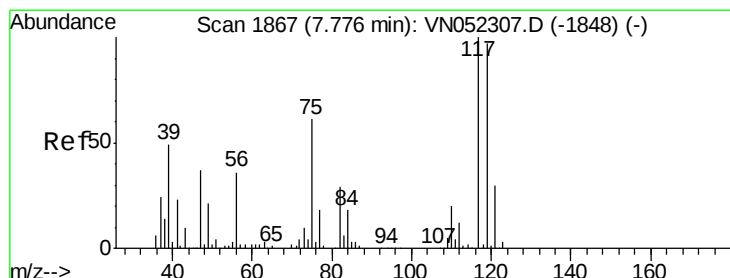
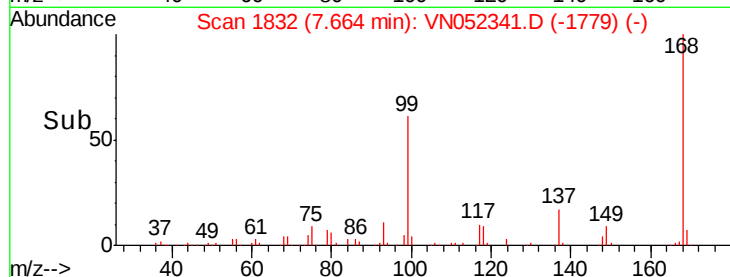
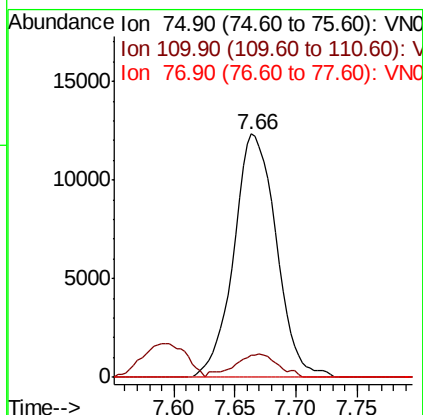
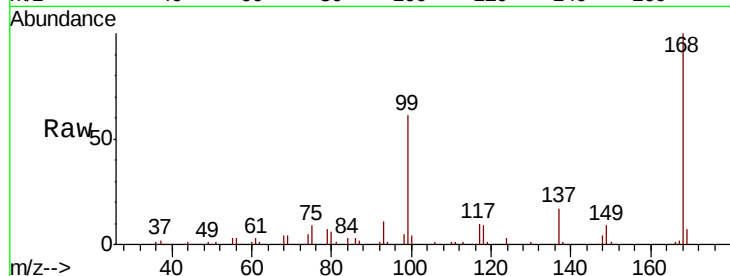




#36
 1,1-Dichloropropene
 Concen: 5.463 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052341.D
 Acq: 15 Nov 2018 14:53

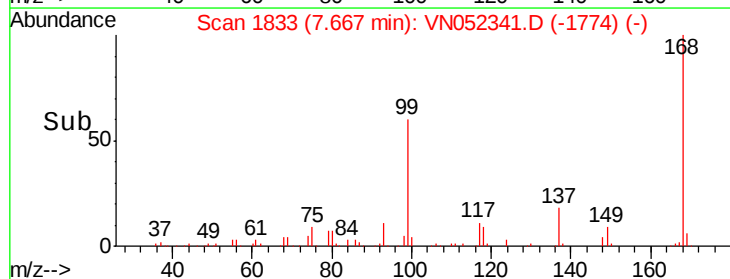
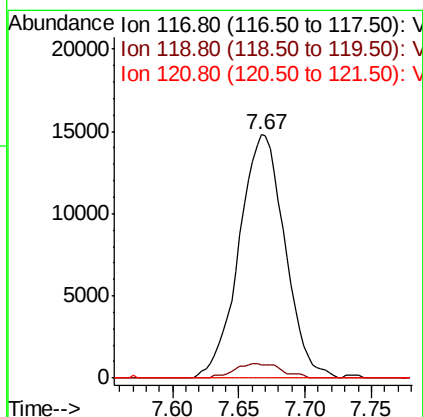
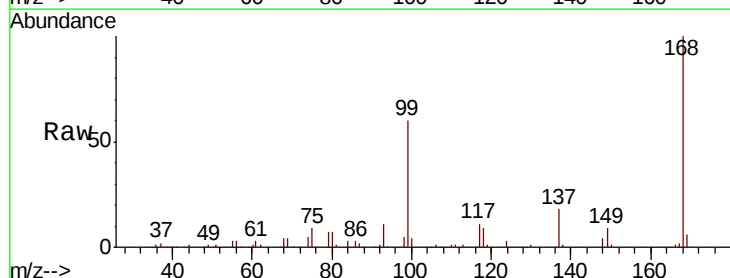
Instrument :
 MSVOA_N
 ClientSampleId :

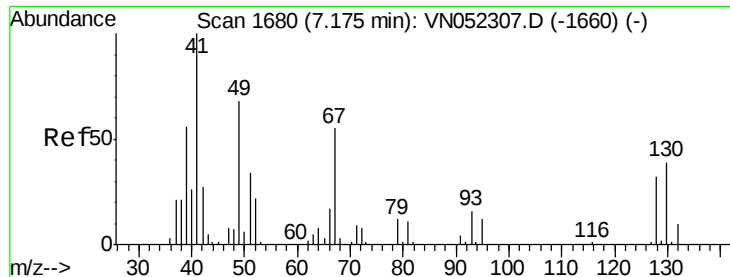
Tot Ion	75	Resp	29802
Ion Ratio	Lower	Upper	
75	100		
110	9.8	16.5	49.5#
77	0.0	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 7.082 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052341.D
 Acq: 15 Nov 2018 14:53

Tgt Ion	117	Resp	35493
Ion Ratio	Lower	Upper	
117	100		
119	5.3	77.4	116.0#
121	0.0	24.0	36.0#

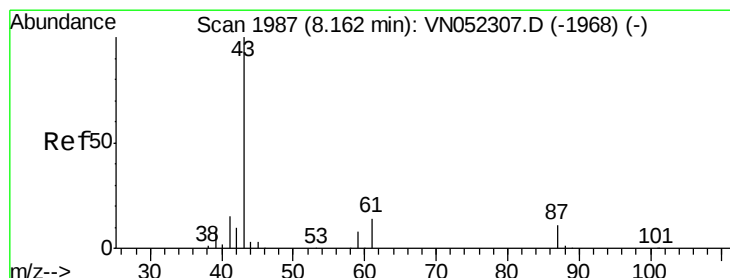
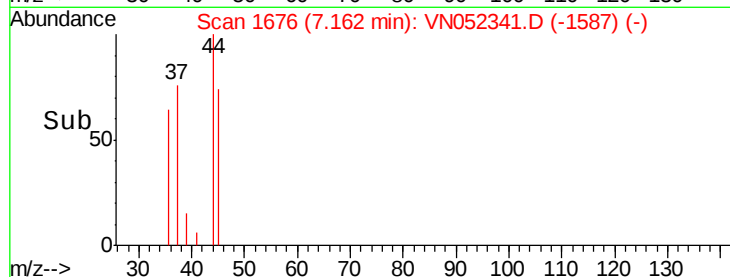
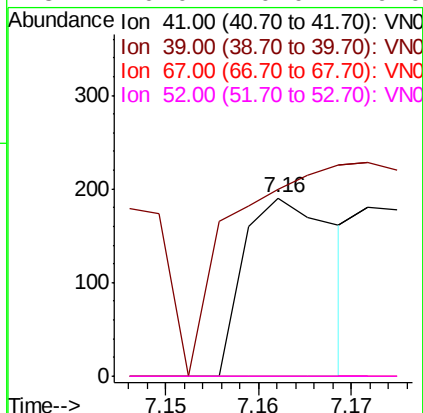
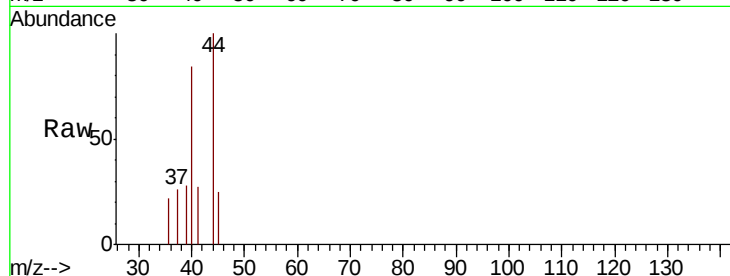




#41
Methacrylonitrile
Concen: 3.751 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. -0.01 min
Lab File: VN052341.D
Acq: 15 Nov 2018 14:53

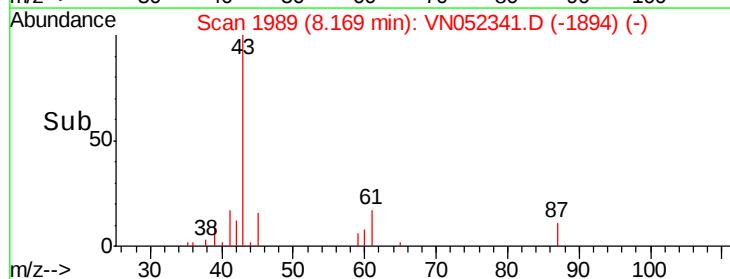
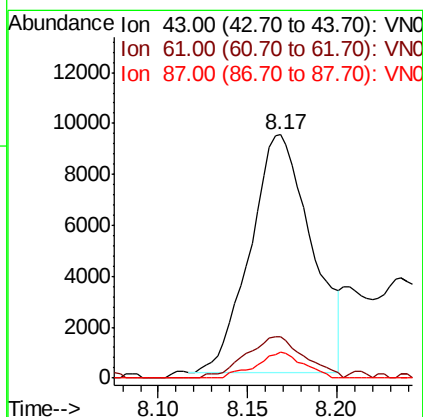
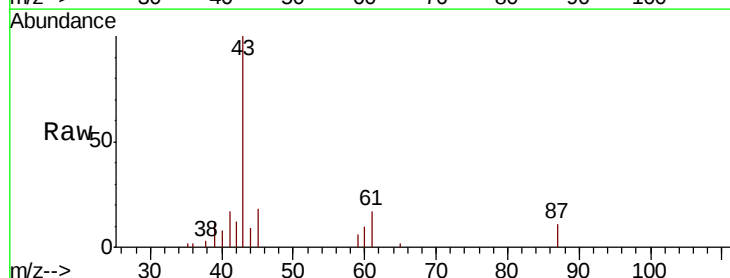
Instrument :
MSVOA_N
ClientSampled :

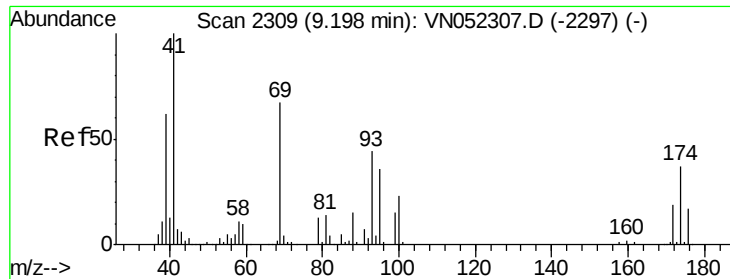
Tot Ion:	41	Resp:	131
Ion	Ratio	Lower	Upper
41	100		
39	265.6	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 2.935 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN052341.D
Acq: 15 Nov 2018 14:53

Tgt Ion:	43	Resp:	22423
Ion	Ratio	Lower	Upper
43	100		
61	16.6	12.0	18.0
87	8.4	8.3	12.5

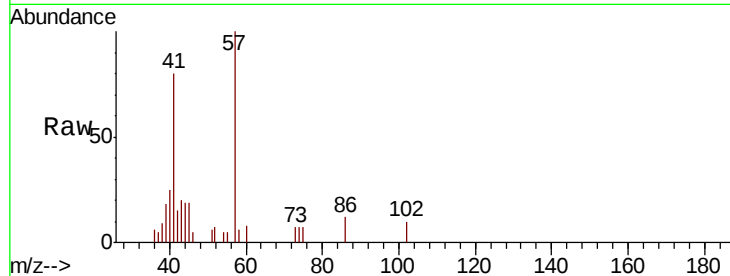




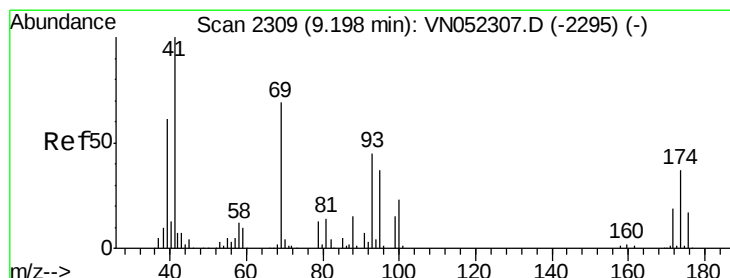
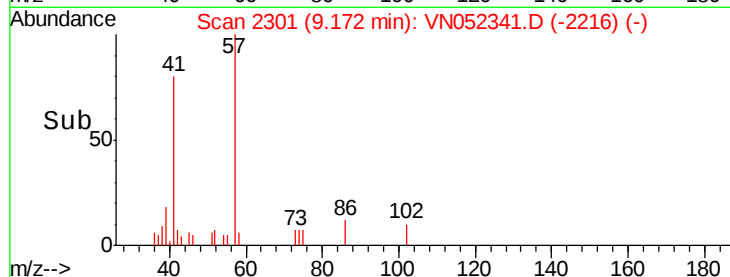
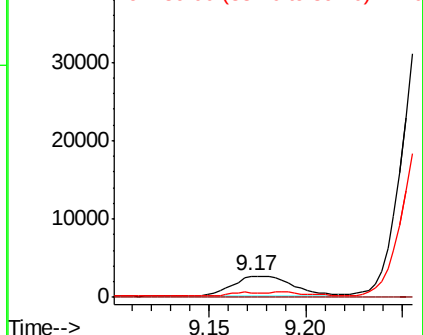
#48
Methvl methacrylate
Concen: 1.397 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.03 min
Lab File: VN052341.D
Acq: 15 Nov 2018 14:53

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 5415
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#

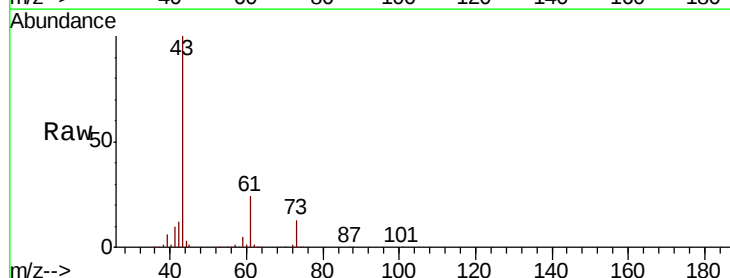


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

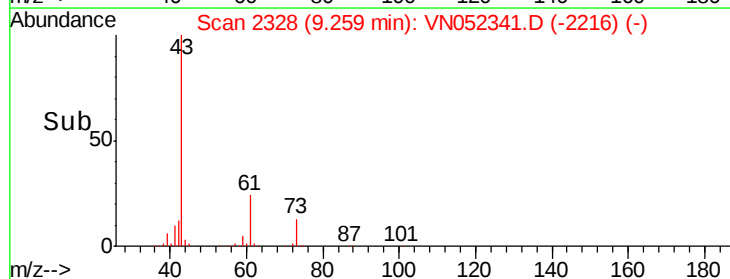
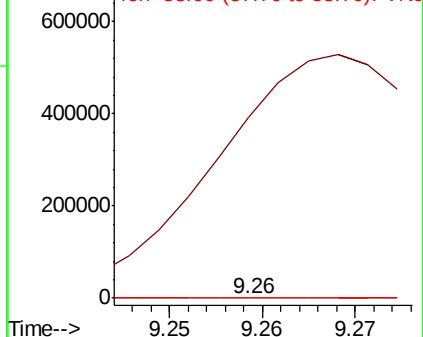


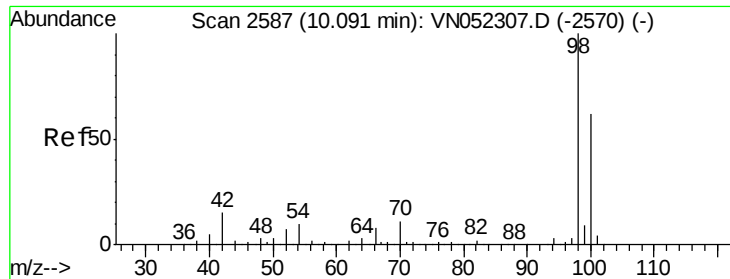
#49
1,4-Dioxane
Concen: 2.151 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN052341.D
Acq: 15 Nov 2018 14:53

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 1532556.3 33.3 49.9#
58 6475.0 59.2 88.8#



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





#50

Toluene-d8

Concen: 2.151 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

Instrument :

MSVOA_N

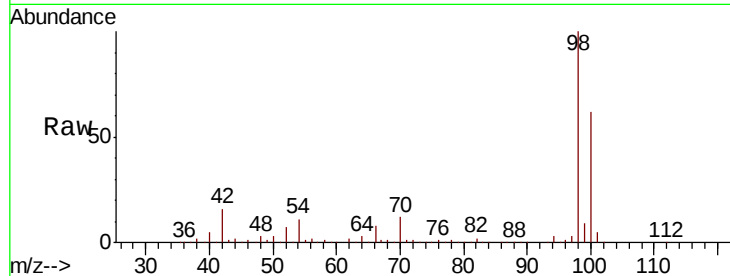
ClientSampleId :

Tot Ion: 98 Resp: 692507

Ion Ratio Lower Upper

98 100

100 62.2 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)

10.09

400000

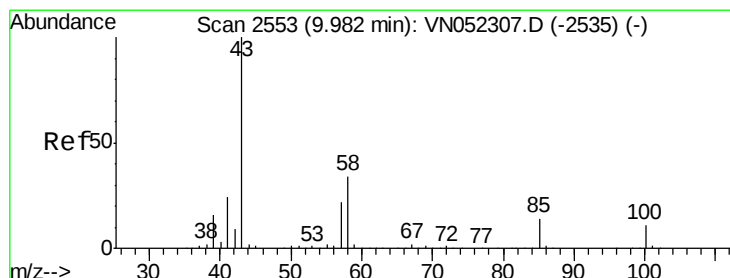
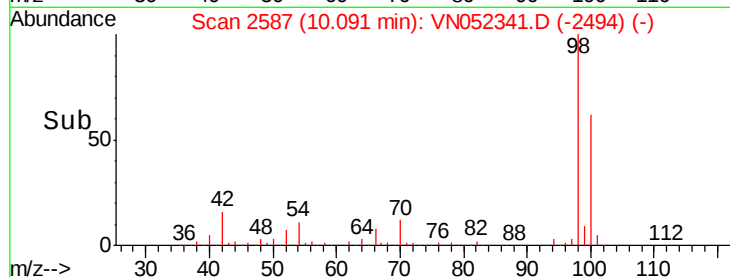
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.892 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052341.D

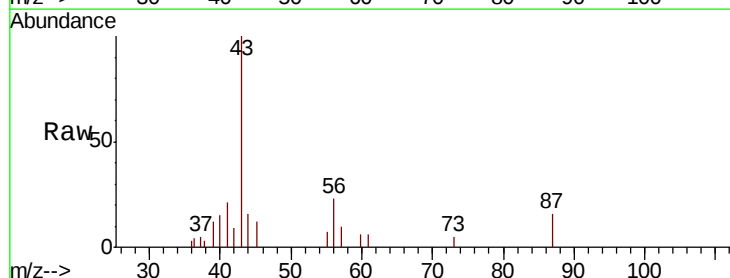
Acq: 15 Nov 2018 14:53

Tgt Ion: 43 Resp: 7275

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-2535) (-)

10.02

5000

4000

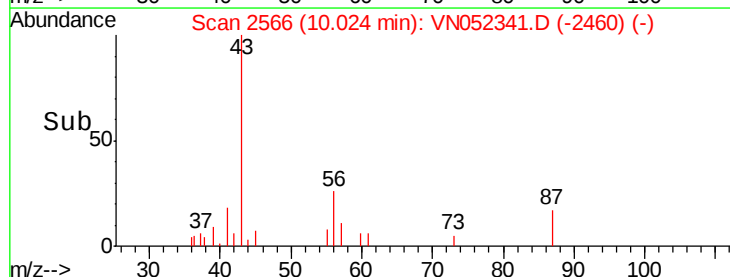
3000

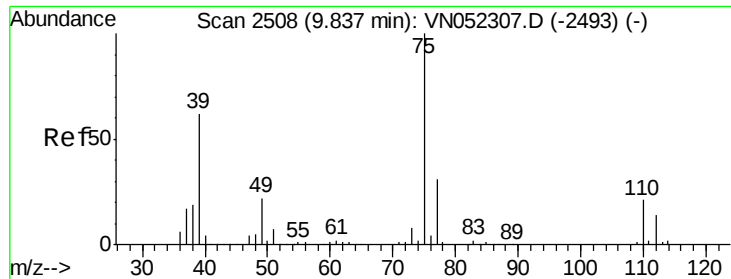
2000

1000

0

Time-->



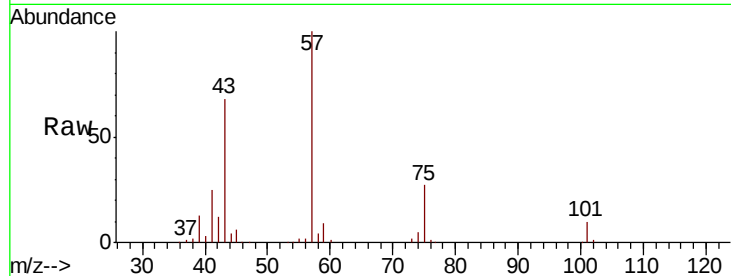


#54

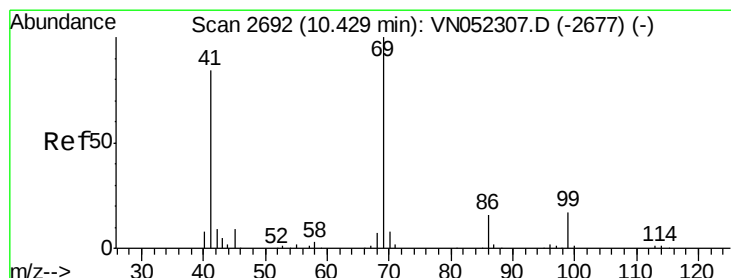
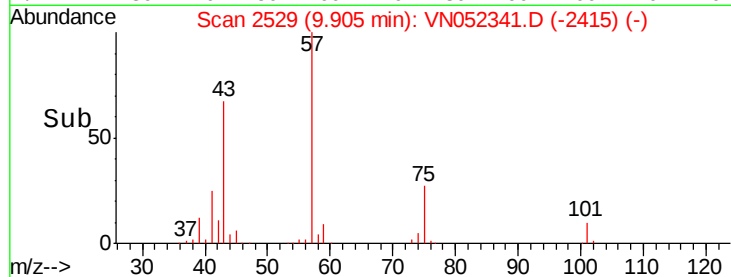
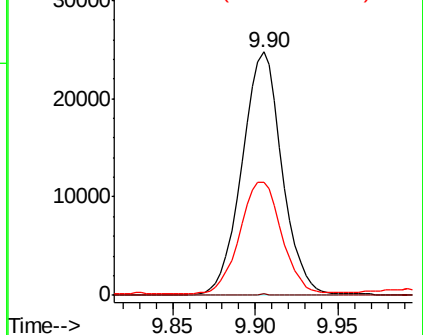
cis-1,3-Dichloropropene
 Concen: 6.906 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN052341.D
 Acq: 15 Nov 2018 14:53

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 41718
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.6 36.8#
 39 45.7 49.9 74.9#



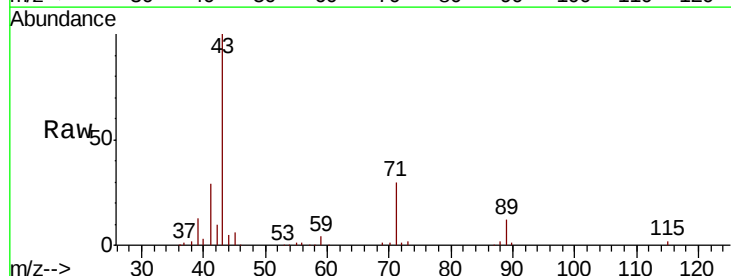
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



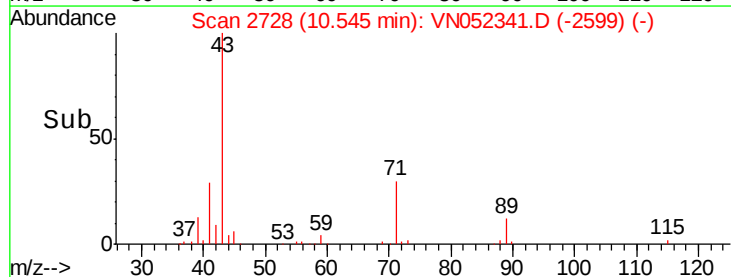
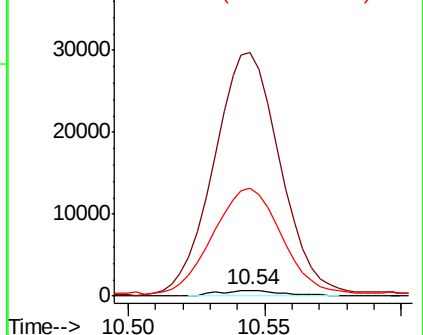
#56

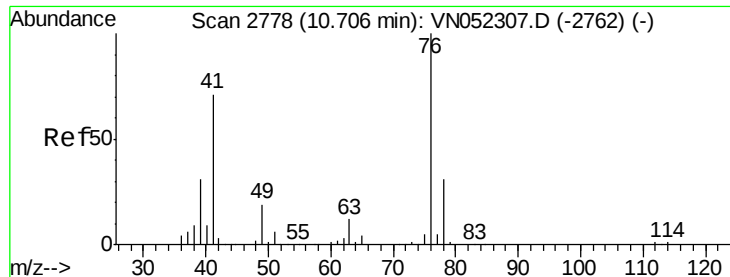
Ethyl methacrylate
 Concen: 0.246 ug/l
 RT: 10.54 min Scan# 2728
 Delta R.T. 0.12 min
 Lab File: VN052341.D
 Acq: 15 Nov 2018 14:53

Tgt Ion: 69 Resp: 1093
 Ion Ratio Lower Upper
 69 100
 41 4637.5 64.8 97.2#
 39 2093.9 41.0 61.6#



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

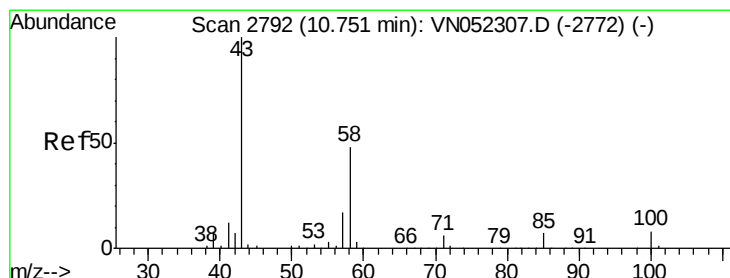
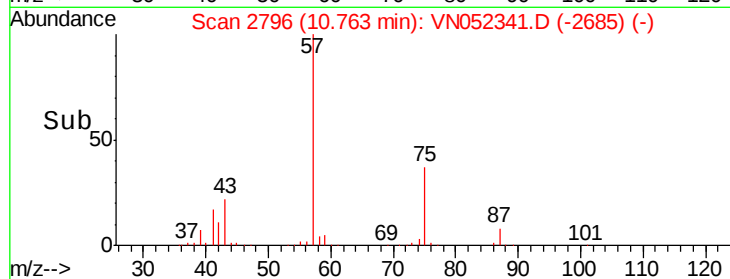
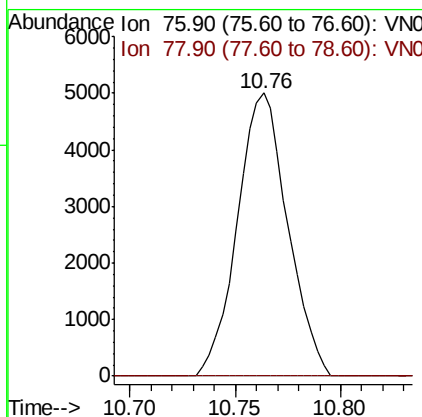
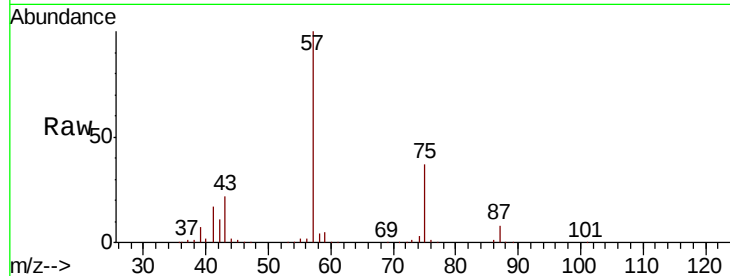




#57
 1,3-Dichloropropane
 Concen: 1.384 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN052341.D
 Acq: 15 Nov 2018 14:53

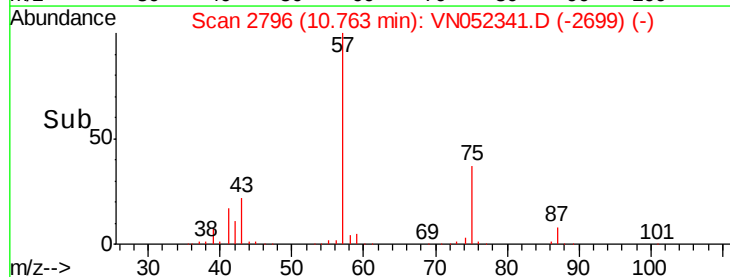
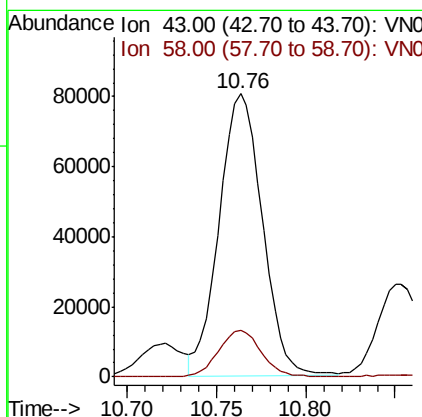
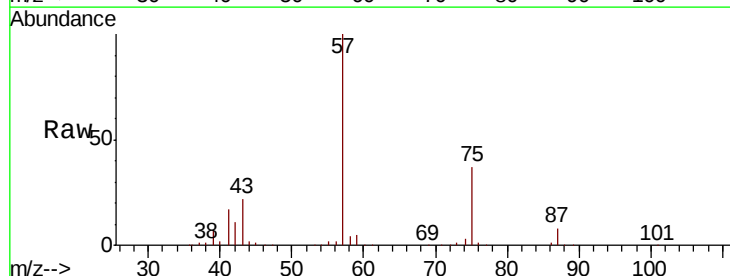
Instrument :
 MSVOA_N
 ClientSampled :

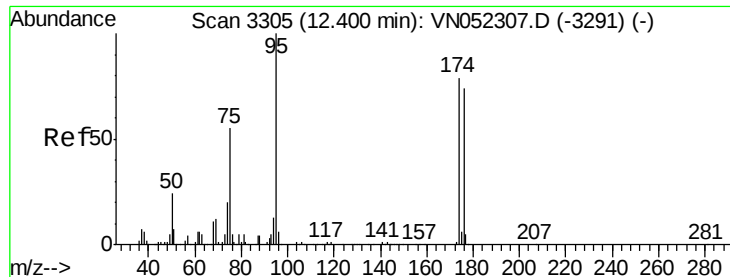
Tot Ion: 76 Resp: 8288
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 51.160 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052341.D
 Acq: 15 Nov 2018 14:53

Tgt Ion: 43 Resp: 135325
 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: VN052341.D

Acq: 15 Nov 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

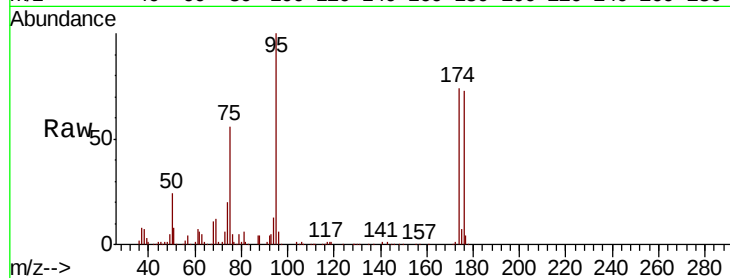
Tot Ion: 95 Resp: 196960

Ion Ratio Lower Upper

95 100

174 75.9 0.0 156.0

176 74.5 0.0 148.4



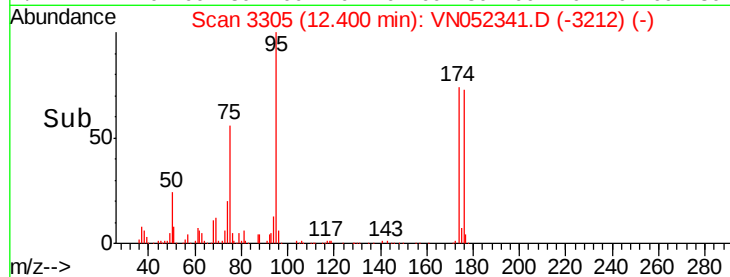
Abundance Ion 94.90 (94.60 to 95.60): VN052341.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052341.D (-2903) (-)

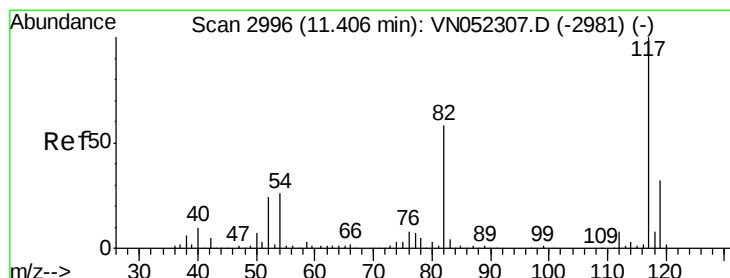
Ion 175.80 (175.50 to 176.50): VN052341.D (-2903) (-)

12.40

12.35 12.40 12.45



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

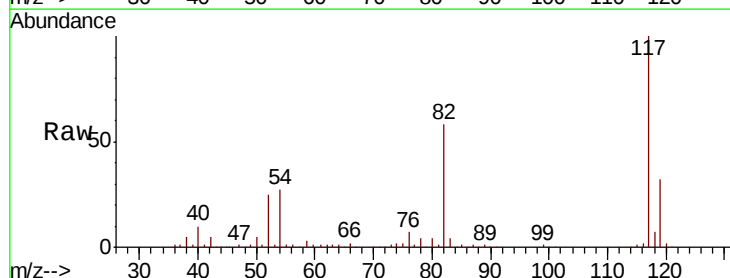
Tgt Ion: 117 Resp: 463097

Ion Ratio Lower Upper

117 100

82 58.4 46.5 69.7

119 31.5 25.7 38.5



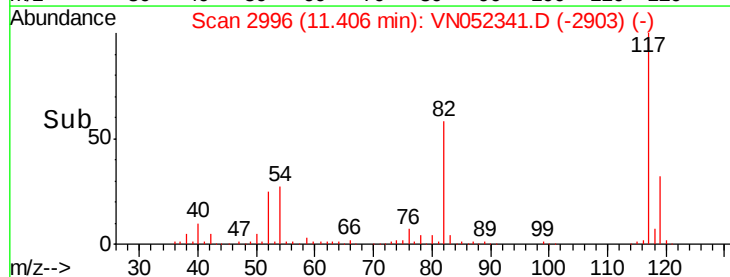
Abundance Ion 116.90 (116.60 to 117.60): VN052341.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052341.D (-2903) (-)

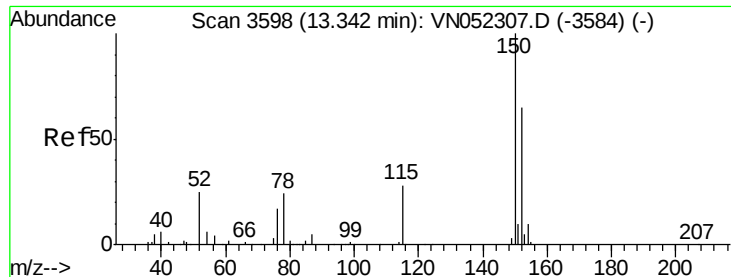
Ion 118.90 (118.60 to 119.60): VN052341.D (-2903) (-)

11.41

11.30 11.40 11.50



Time-->

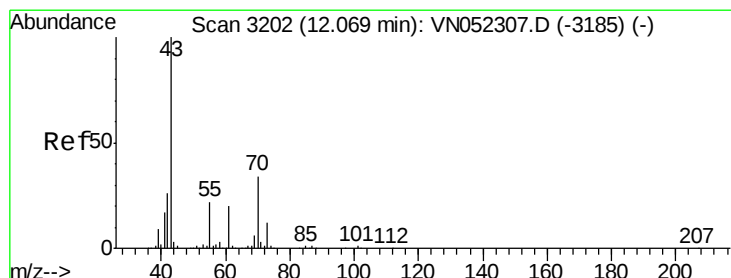
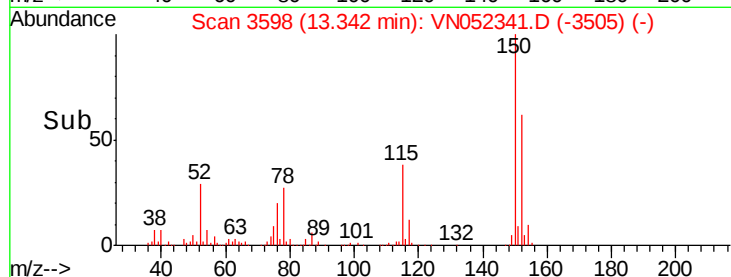
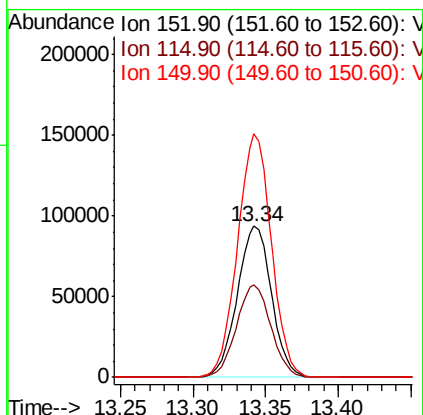
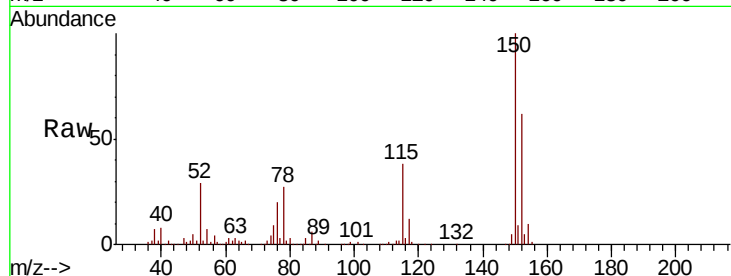


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052341.D
Acq: 15 Nov 2018 14:53

Instrument :
MSVOA_N
ClientSampleId :

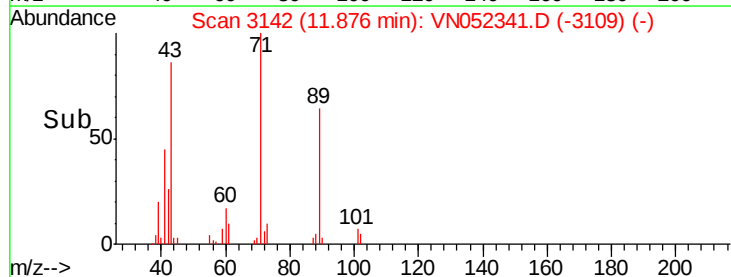
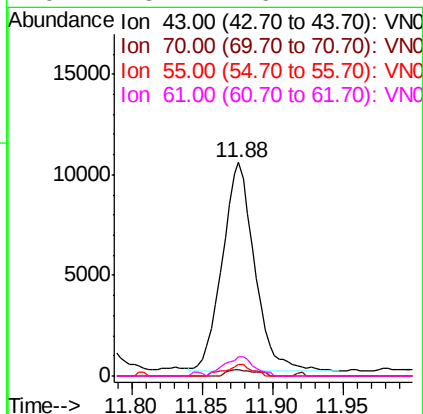
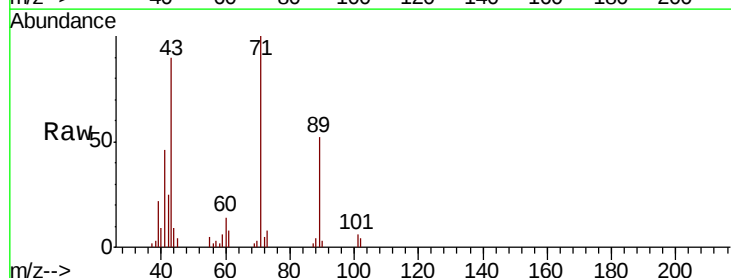
Tot Ion	Ratio	Lower	Upper
152	100		
115	61.7	30.3	91.0
150	158.8	0.0	348.2

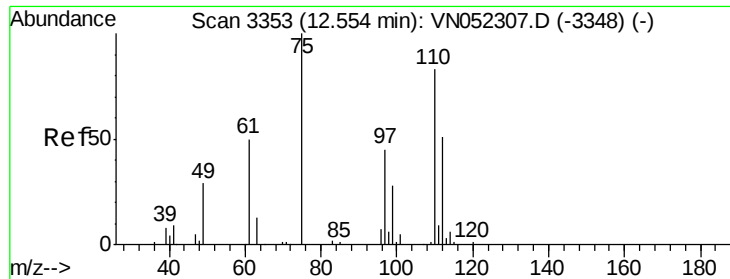


#74

N-ethyl acetate
Concen: 3.780 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN052341.D
Acq: 15 Nov 2018 14:53

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.7	27.1	40.7#
55	4.6	17.4	26.0#
61	8.4	16.1	24.1#





#76

1,2,3-Trichloropropane

Concen: 42.408 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

Instrument :

MSVOA_N

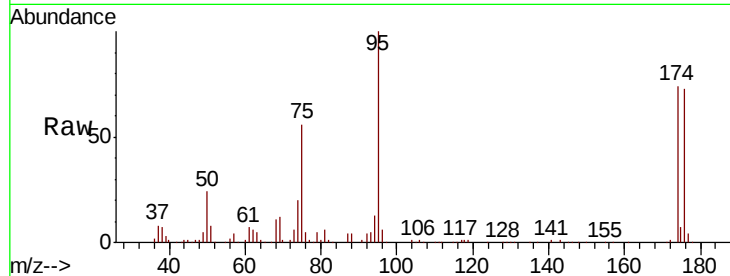
ClientSampled :

Tot Ion: 75 Resp: 110548

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN052307.D (-3348) (-)

12.40

60000

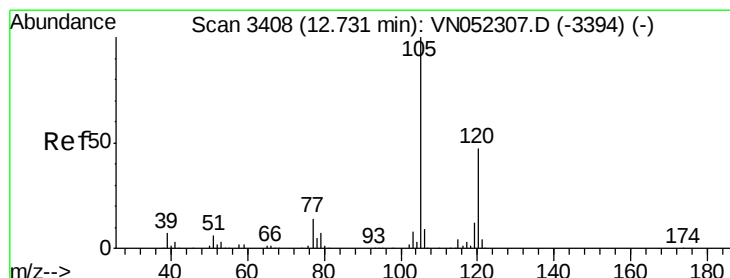
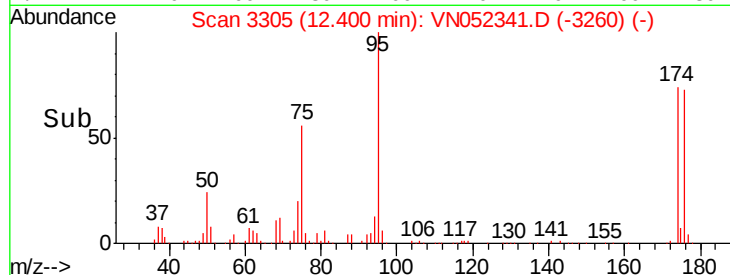
40000

20000

0

Time-->

12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.865 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052341.D

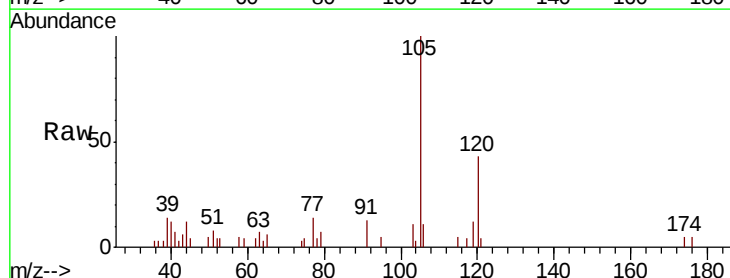
Acq: 15 Nov 2018 14:53

Tgt Ion: 105 Resp: 8499

Ion Ratio Lower Upper

105 100

120 50.1 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VN052307.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN052307.D (-3394) (-)

12.73

6000

5000

4000

3000

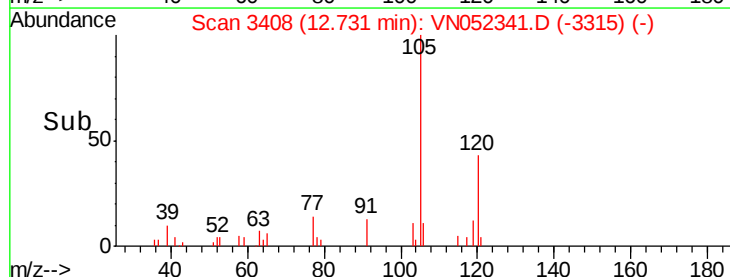
2000

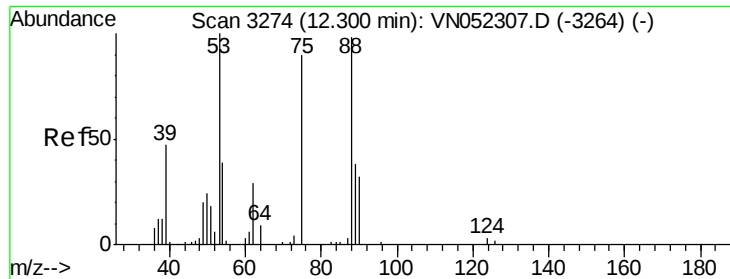
1000

0

Time-->

12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 137.545 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

Instrument :

MSVOA_N

ClientSampled :

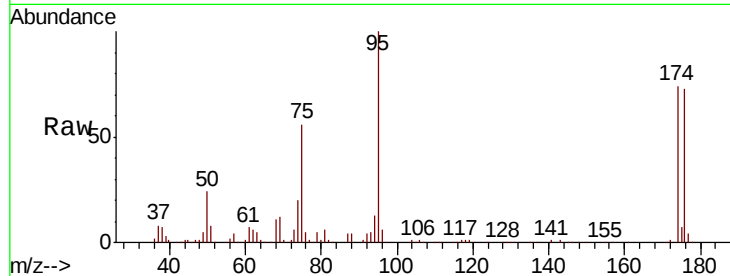
Tot Ion: 75 Resp: 110548

Ion Ratio Lower Upper

75 100

53 0.1 90.2 135.2#

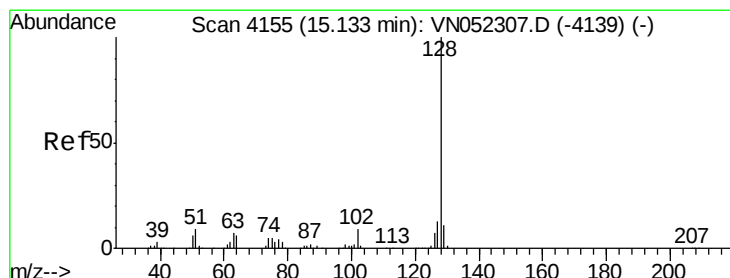
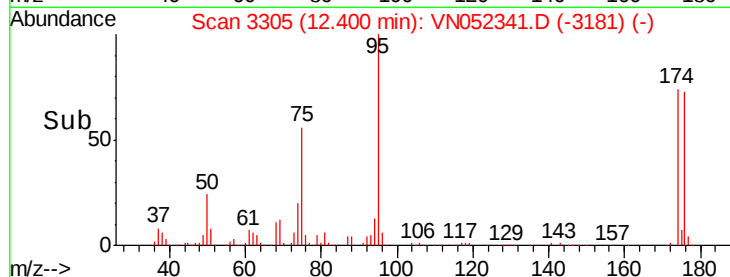
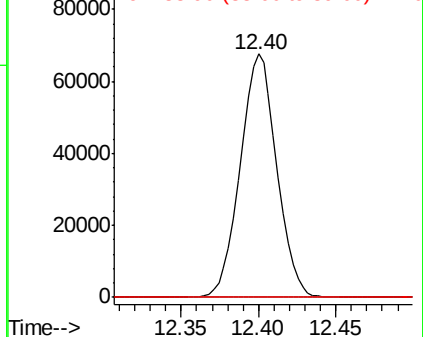
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 2.610 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN052341.D

Acq: 15 Nov 2018 14:53

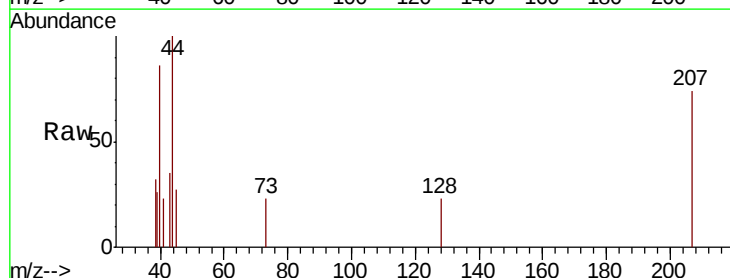
Tgt Ion: 128 Resp: 32

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



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

