

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056053.D
 Acq On : 6 Jun 2019 18:17
 Operator : JC/SP
 Sample : K3203-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW001-190604

Quant Time: Jun 07 05:27:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

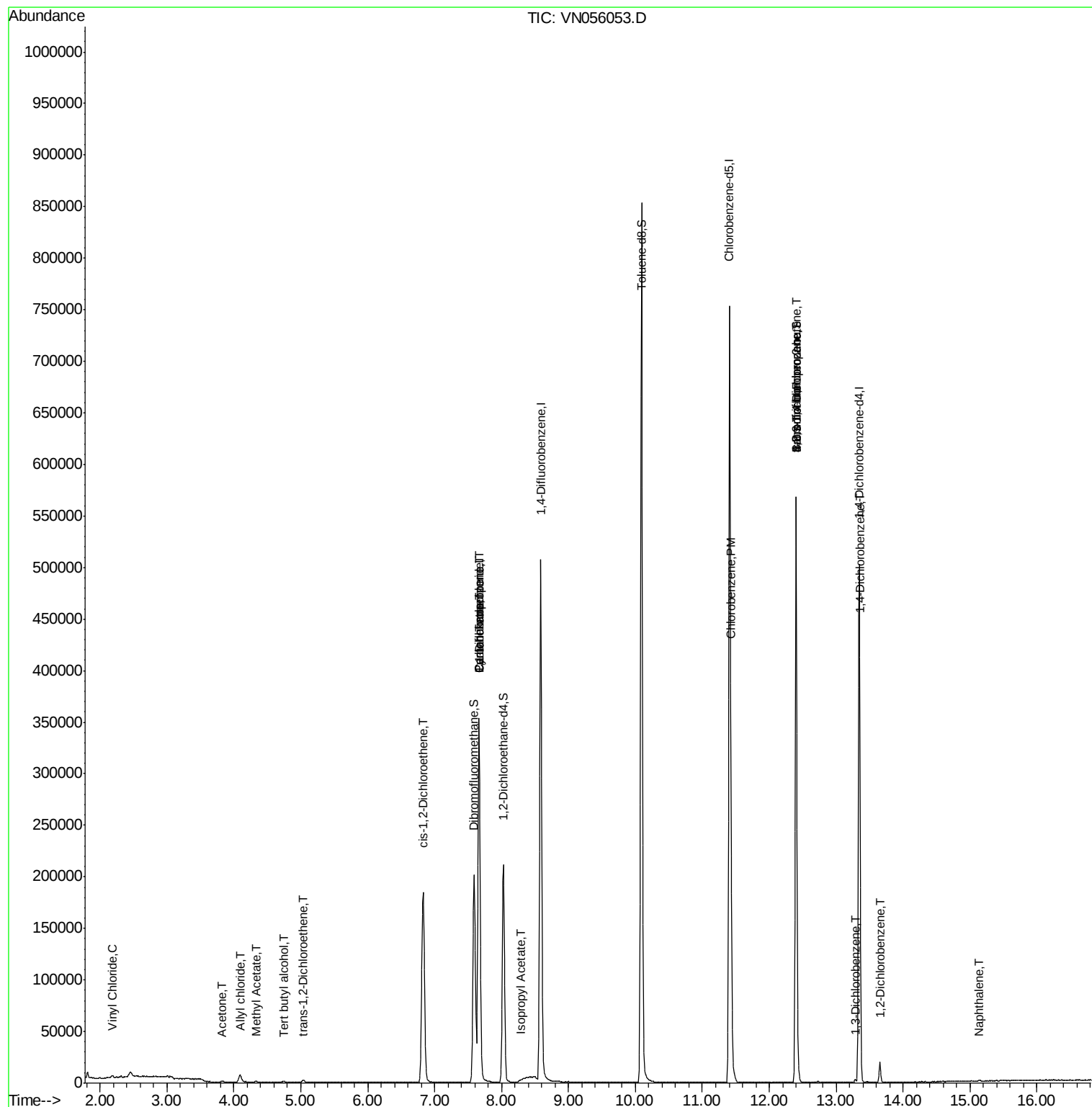
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	337207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	504453	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	473589	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	152843	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	177278	52.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.90%	
35) Dibromofluoromethane	7.59	113	156402	50.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.06%	
50) Toluene-d8	10.09	98	641017	53.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.64%	
62) 4-Bromofluorobenzene	12.40	95	201089	49.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.30%	
Target Compounds				Qvalue		
4) Vinyl Chloride	2.18	62	1677	0.457	ug/l	100
11) Tert butyl alcohol	4.74	59	361	0.620	ug/l #	74
14) Allyl chloride	4.09	41	1154	0.258	ug/l #	78
16) Acetone	3.82	43	2044	1.276	ug/l #	41
18) Methyl Acetate	4.33	43	2869	0.338	ug/l #	65
21) trans-1,2-Dichloroethene	5.04	96	1599	0.527	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	132798	37.247	ug/l	89
31) Cyclohexane	7.66	56	4824	0.908	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19238	4.435	ug/l #	47
38) Carbon Tetrachloride	7.66	117	27787	6.948	ug/l #	14
43) Isopropyl Acetate	8.29	43	2715	0.434	ug/l #	53
65) Chlorobenzene	11.43	112	81814	8.680	ug/l	100
71) Bromoform	12.40	173	1288	3.188	ug/l #	1
73) Isopropylbenzene	12.40	105	97	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	93253	33.158	ug/l #	100
79) 2-Chlorotoluene	12.39	91	591	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	93253	110.423	ug/l #	15
87) 1,3-Dichlorobenzene	13.28	146	1734	0.342	ug/l	93
88) 1,4-Dichlorobenzene	13.36	146	19029	3.906	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	10104	1.976	ug/l	99
95) Naphthalene	15.14	128	577	3.924	ug/l #	69

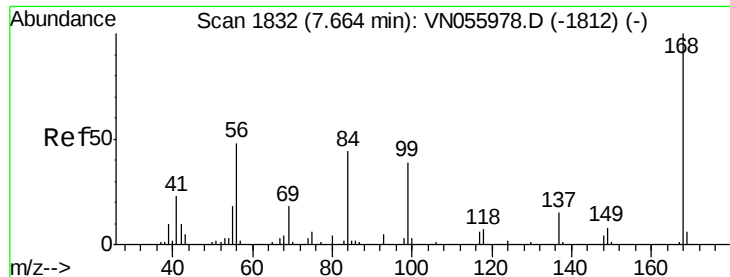
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

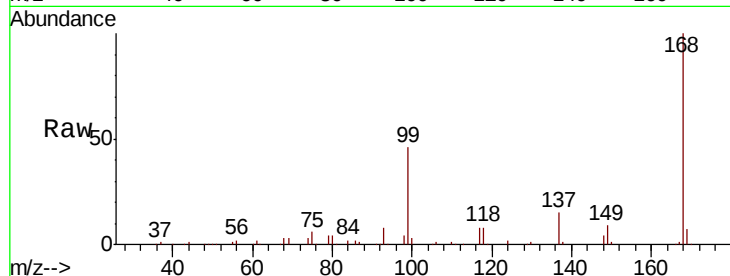
LF015MW001-190604

Tot Ion:168 Resp: 337207

Ion Ratio Lower Upper

168 100

99 46.1 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

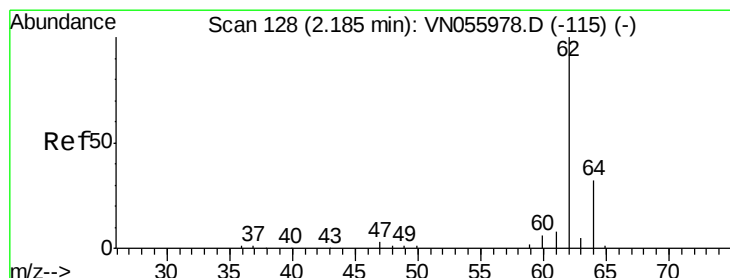
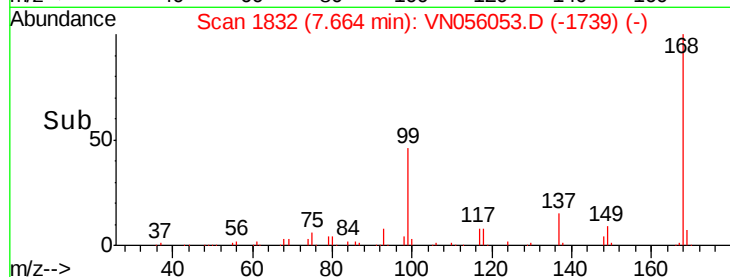
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#4

Vinyl Chloride

Concen: 0.457 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN056053.D

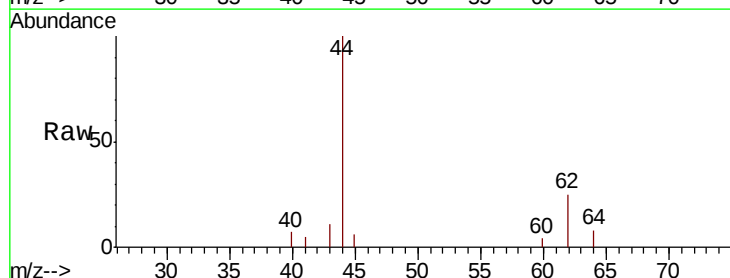
Acq: 6 Jun 2019 18:17

Tgt Ion: 62 Resp: 1677

Ion Ratio Lower Upper

62 100

64 32.0 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

2.18

1200

1000

800

600

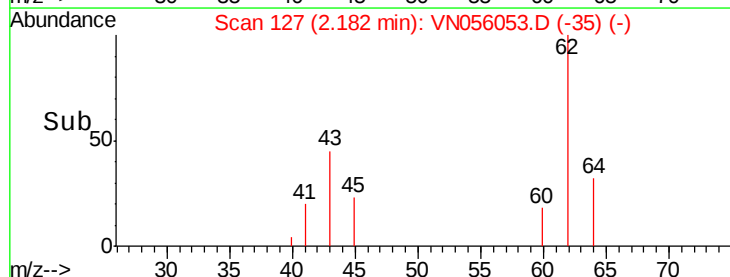
400

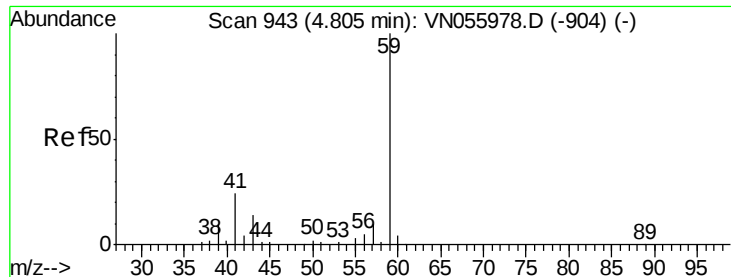
200

0

2.14 2.16 2.18 2.20 2.22

Time-->



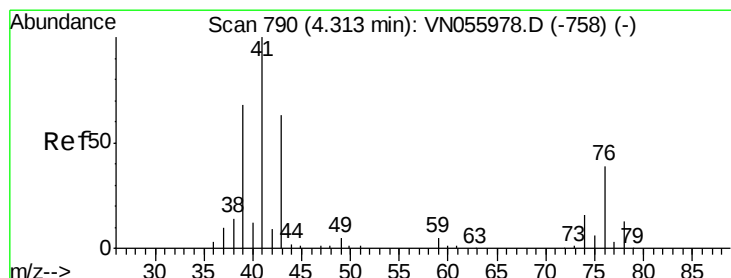
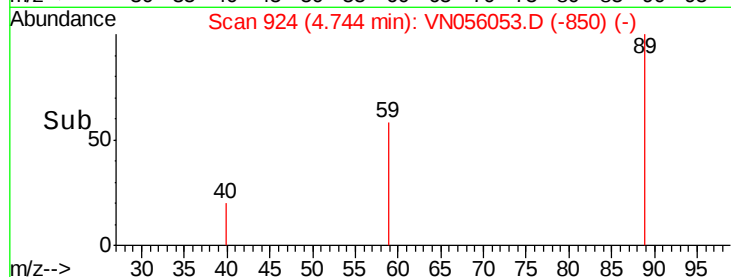
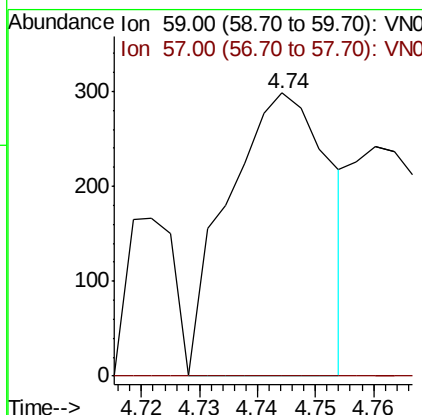
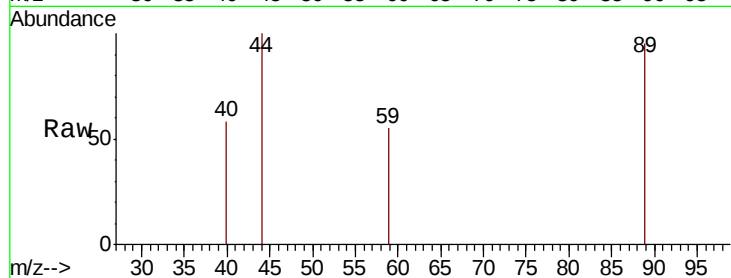


#11

Tert butyl alcohol
 Concen: 0.620 ug/l
 RT: 4.74 min Scan# 924
 Delta R.T. -0.06 min
 Lab File: VN056053.D
 Acq: 6 Jun 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW001-190604

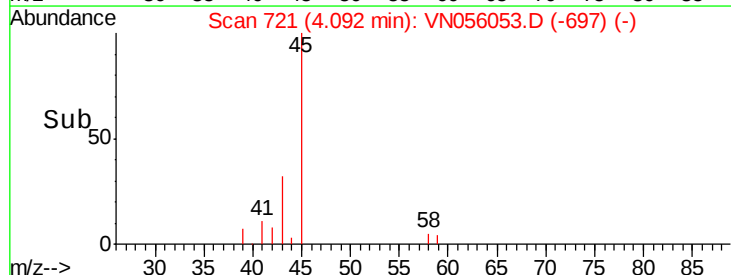
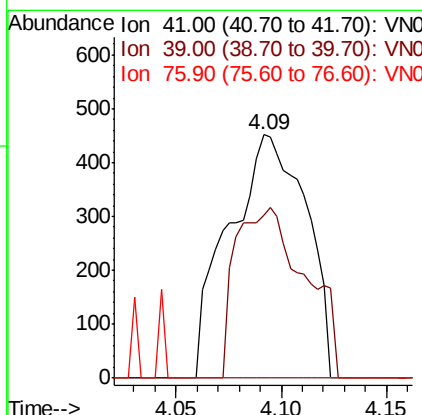
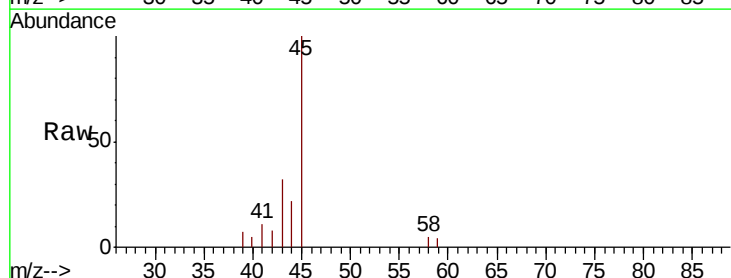
Tot Ion: 59 Resp: 361
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



#14

Allyl chloride
 Concen: 0.258 ug/l
 RT: 4.09 min Scan# 721
 Delta R.T. -0.22 min
 Lab File: VN056053.D
 Acq: 6 Jun 2019 18:17

Tgt Ion: 41 Resp: 1154
 Ion Ratio Lower Upper
 41 100
 39 63.0 50.0 75.0
 76 0.0 28.2 42.2#





#16

Acetone

Concen: 1.276 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

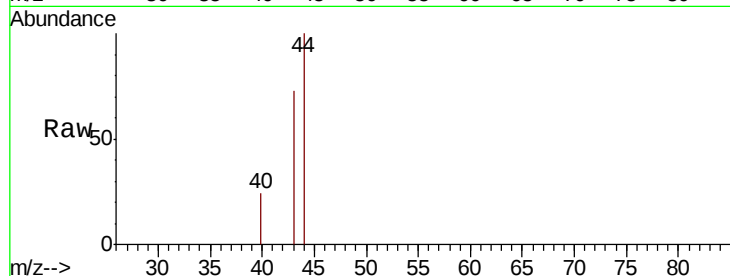
LF015MW001-190604

Tot Ion: 43 Resp: 2044

Ion Ratio Lower Upper

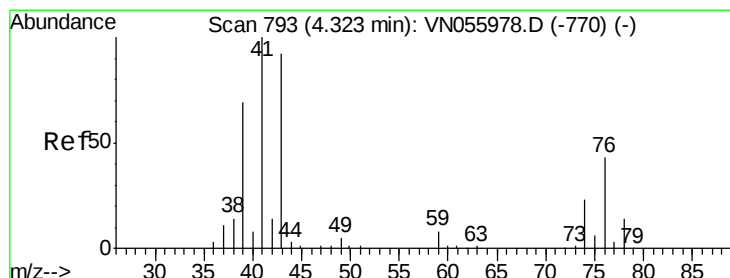
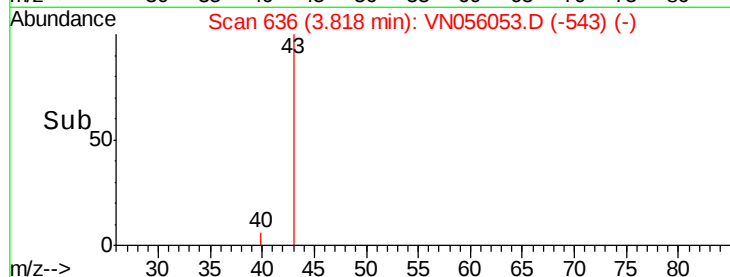
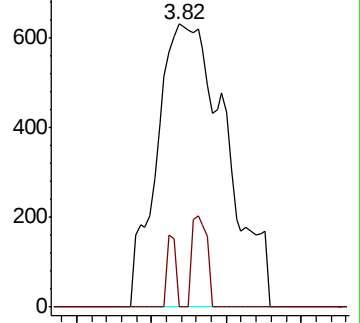
43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.338 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056053.D

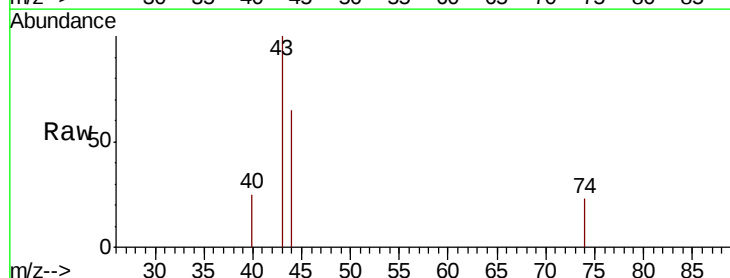
Acq: 6 Jun 2019 18:17

Tgt Ion: 43 Resp: 2869

Ion Ratio Lower Upper

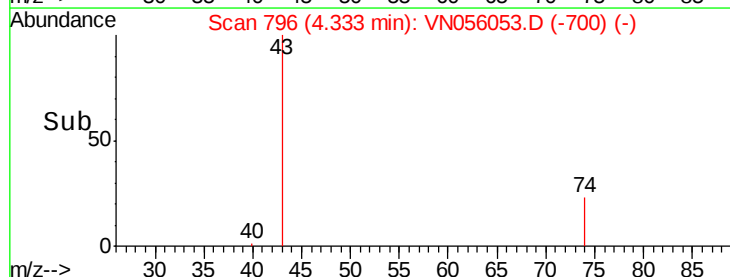
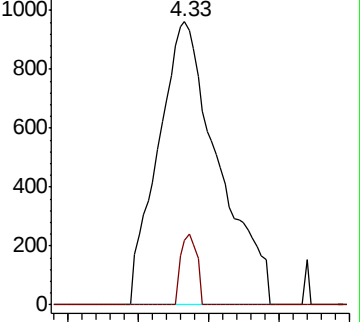
43 100

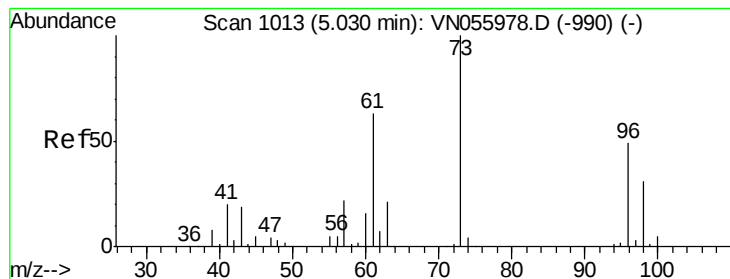
74 6.7 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#21

trans-1,2-Dichloroethene

Concen: 0.527 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604

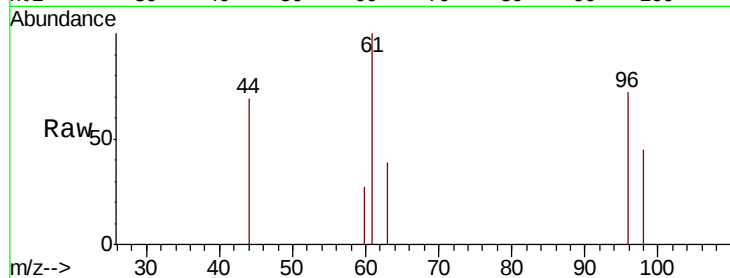
Tot Ion: 96 Resp: 1599

Ion Ratio Lower Upper

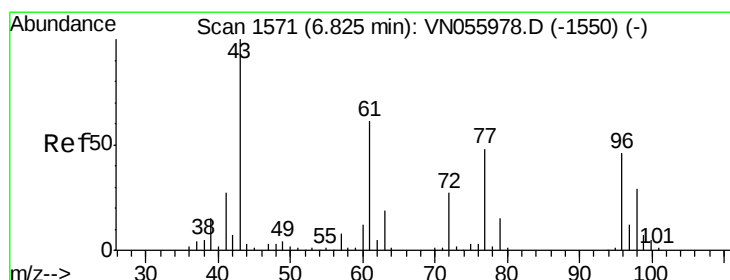
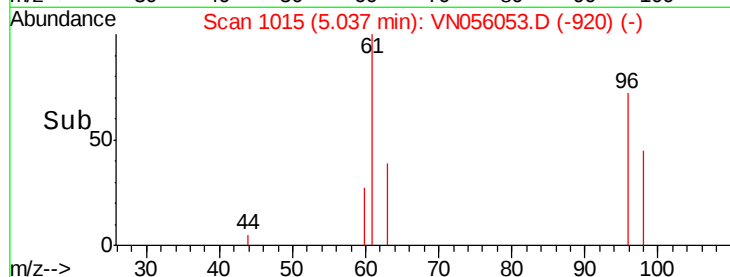
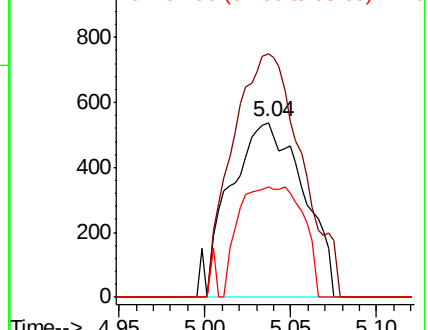
96 100

61 139.2 107.8 161.8

98 63.0 49.8 74.8



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 37.247 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

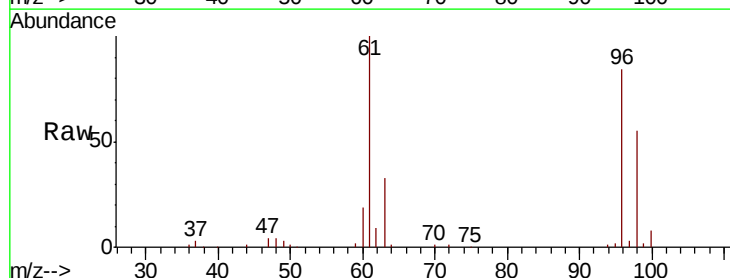
Tgt Ion: 96 Resp: 132798

Ion Ratio Lower Upper

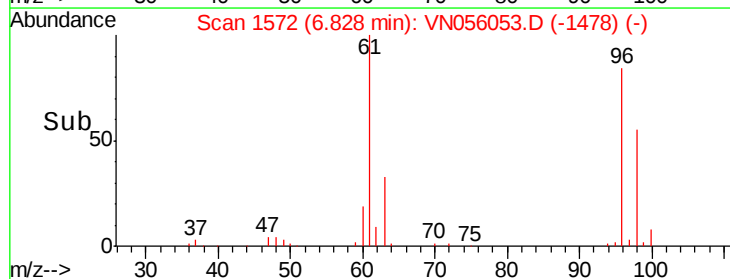
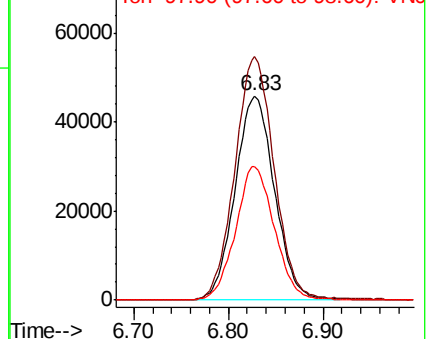
96 100

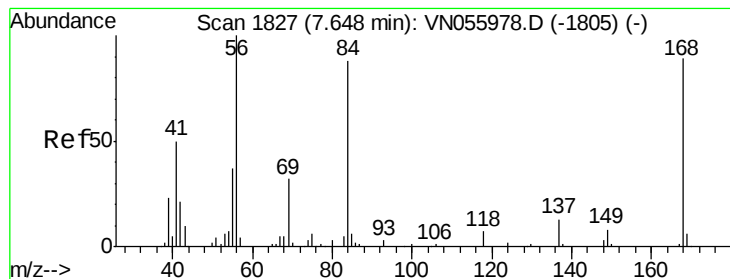
61 119.0 0.0 275.8

98 64.4 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#31

Cyclohexane

Concen: 0.908 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

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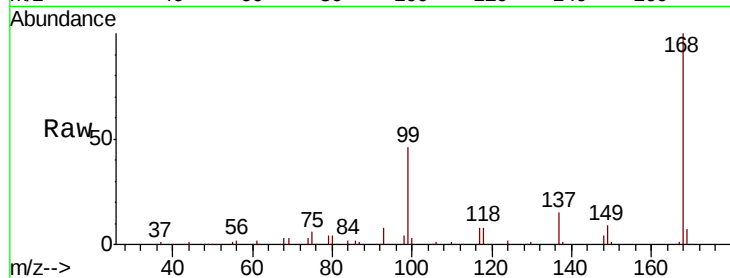
Tot Ion: 56 Resp: 4824

Ion Ratio Lower Upper

56 100

69 196.7 25.6 38.4#

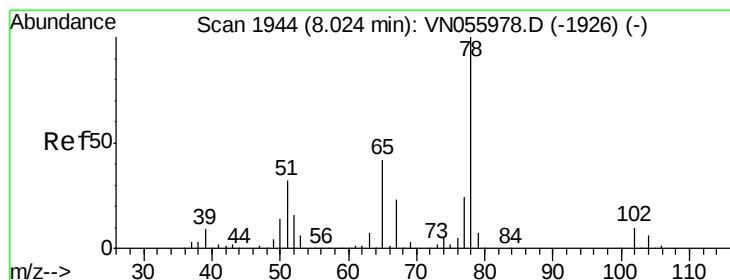
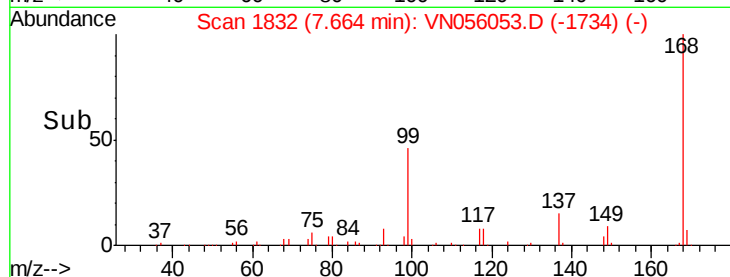
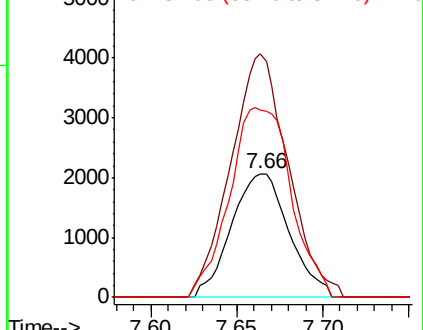
84 151.8 67.4 101.0#



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: 52.948 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056053.D

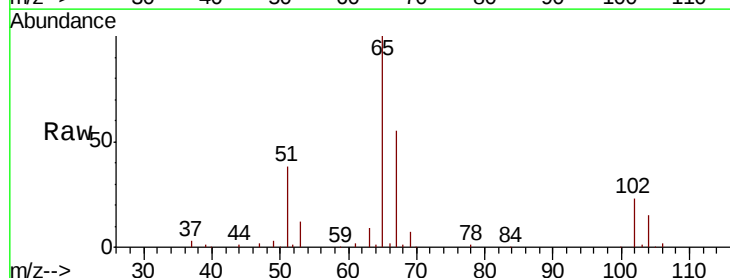
Acq: 6 Jun 2019 18:17

Tgt Ion: 65 Resp: 177278

Ion Ratio Lower Upper

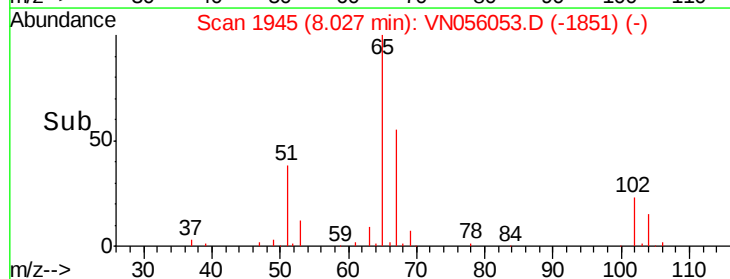
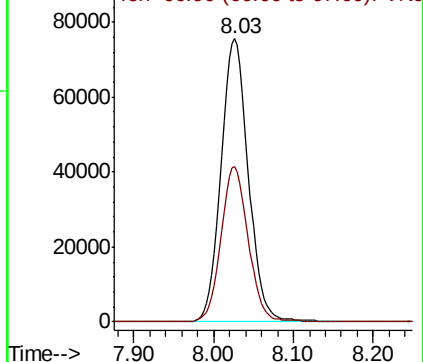
65 100

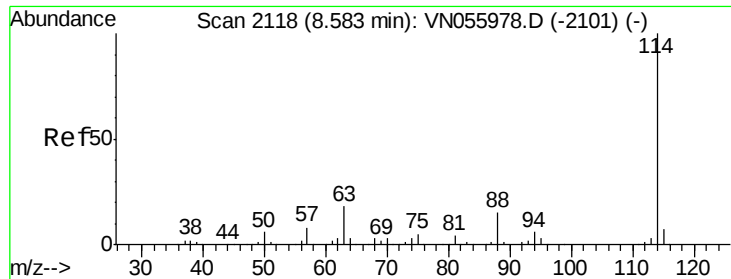
67 54.8 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

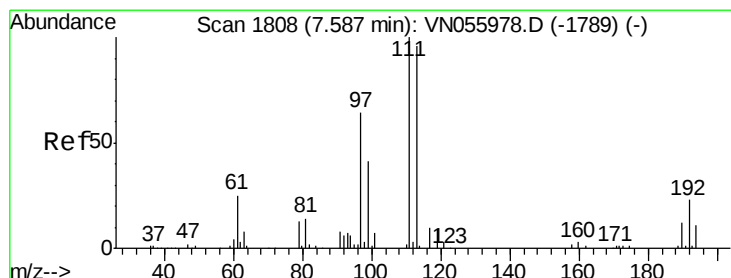
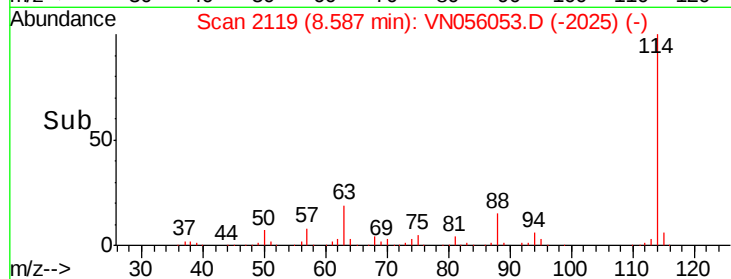
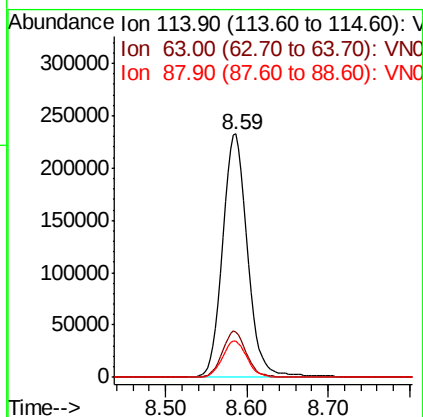
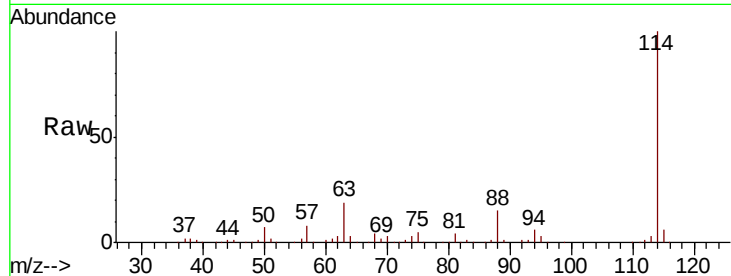




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN056053.D
Acq: 6 Jun 2019 18:17

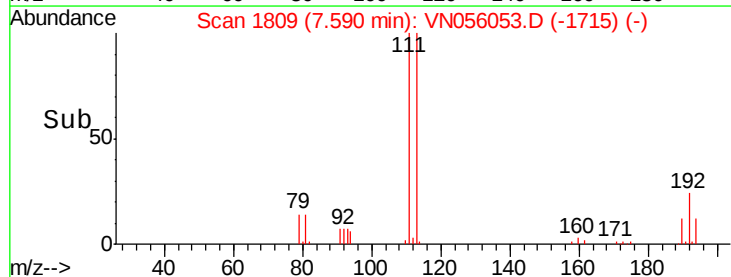
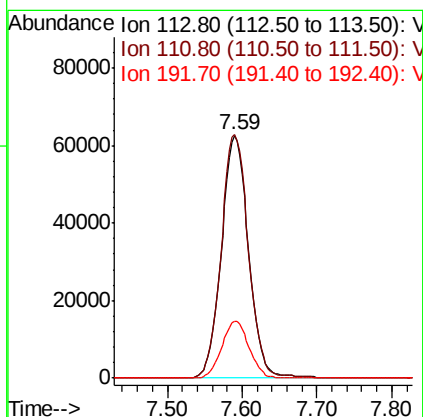
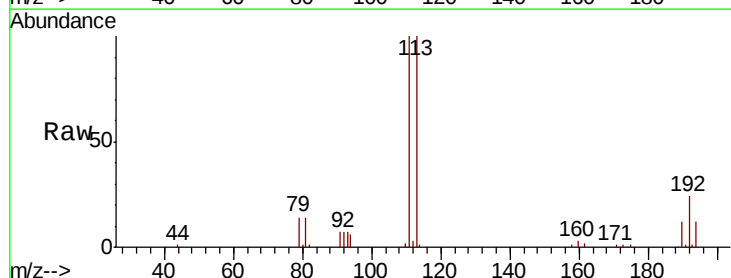
Instrument :
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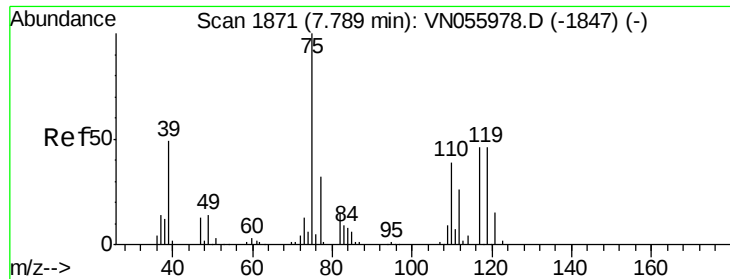
Tot Ion:114 Resp: 504453
Ion Ratio Lower Upper
114 100
63 18.8 0.0 39.2
88 14.9 0.0 31.0



#35
Dibromofluoromethane
Concen: 50.534 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056053.D
Acq: 6 Jun 2019 18:17

Tgt Ion:113 Resp: 156402
Ion Ratio Lower Upper
113 100
111 101.6 81.9 122.9
192 23.6 19.5 29.3

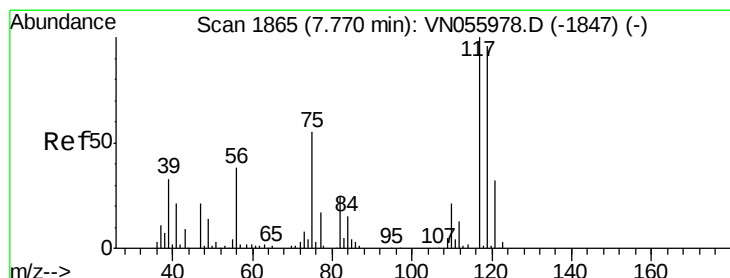
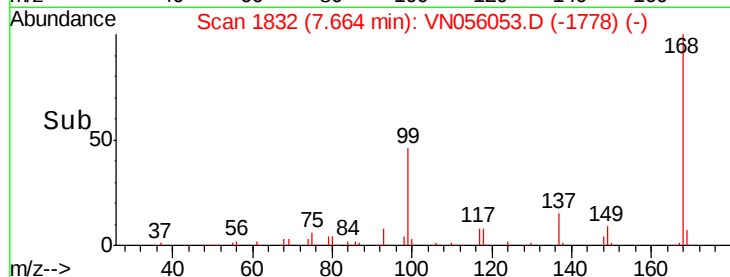
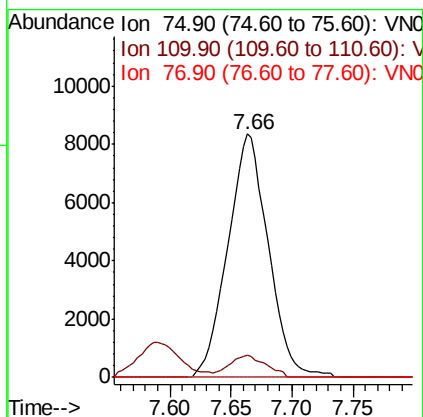
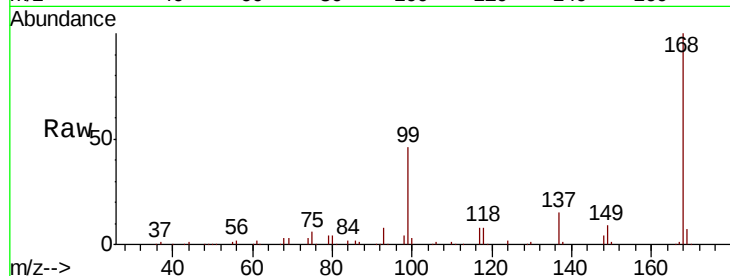




#36
 1,1-Dichloropropene
 Concen: 4.435 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056053.D
 Acq: 6 Jun 2019 18:17

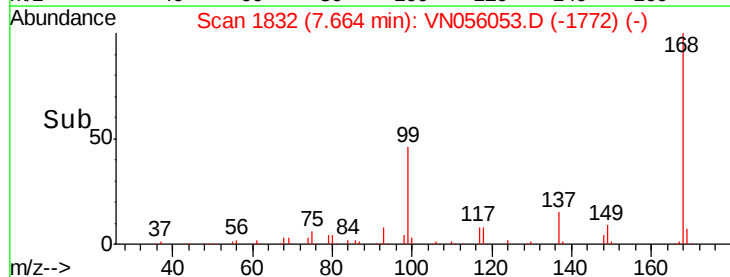
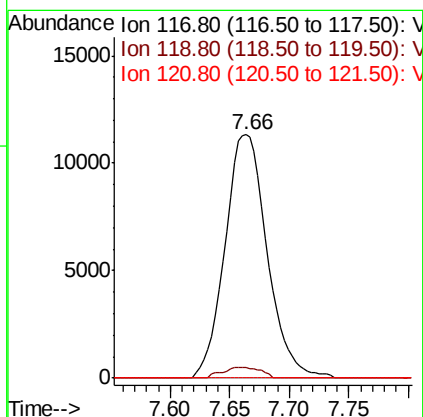
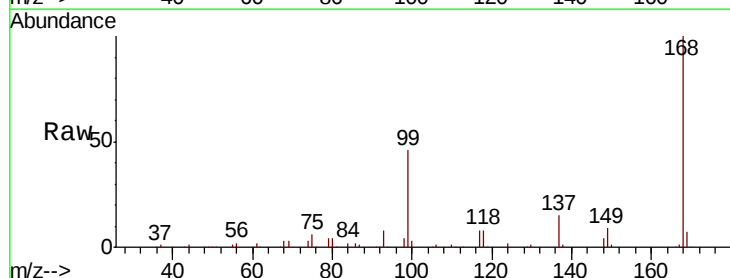
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW001-190604

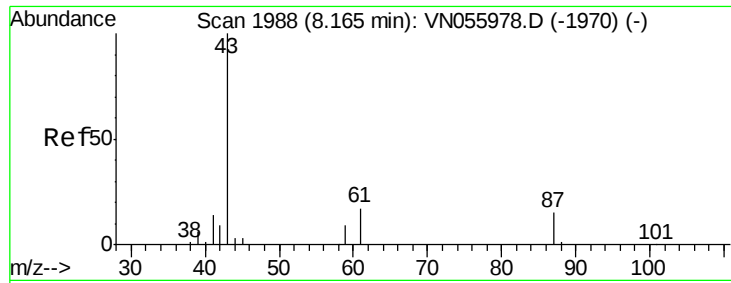
Tot Ion	75	Resp	19238
Ion Ratio	Lower	Upper	
75	100		
110	8.2	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.948 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056053.D
 Acq: 6 Jun 2019 18:17

Tgt Ion	117	Resp	27787
Ion Ratio	Lower	Upper	
117	100		
119	4.2	79.0	118.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.434 ug/l

RT: 8.29 min Scan# 2027

Delta R.T. 0.13 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604

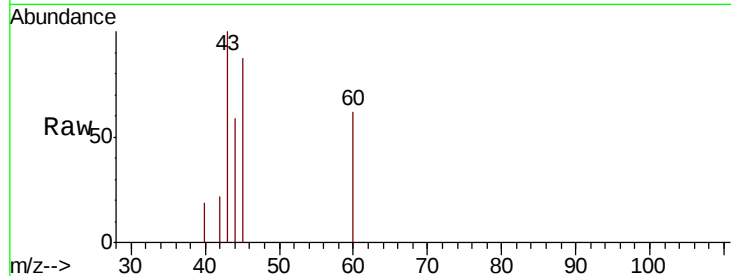
Tot Ion: 43 Resp: 2715

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

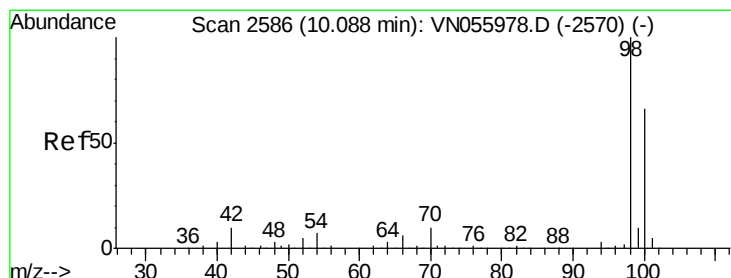
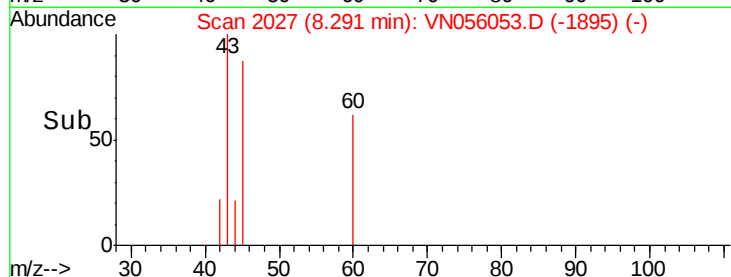
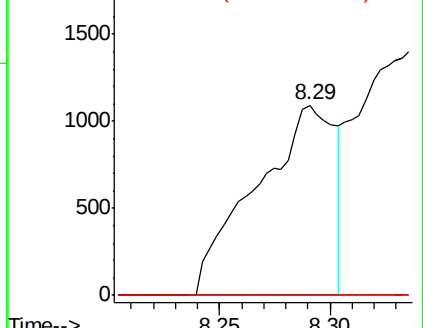
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 53.824 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056053.D

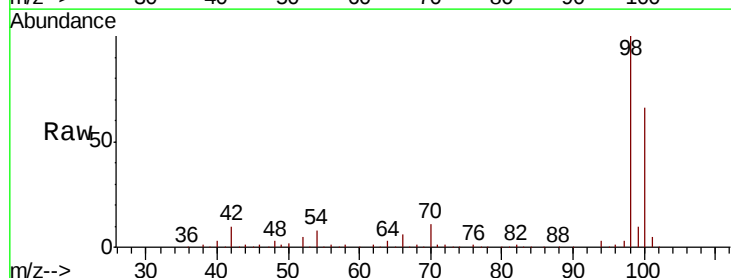
Acq: 6 Jun 2019 18:17

Tgt Ion: 98 Resp: 641017

Ion Ratio Lower Upper

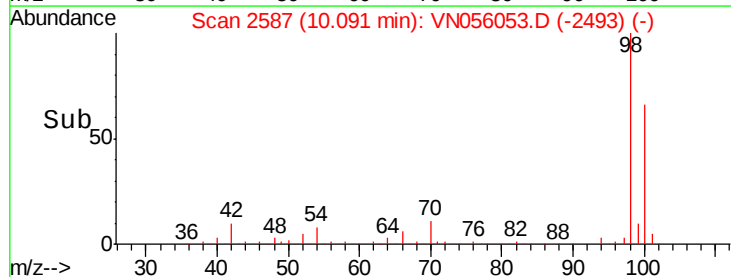
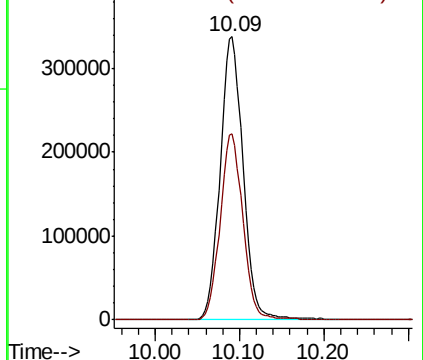
98 100

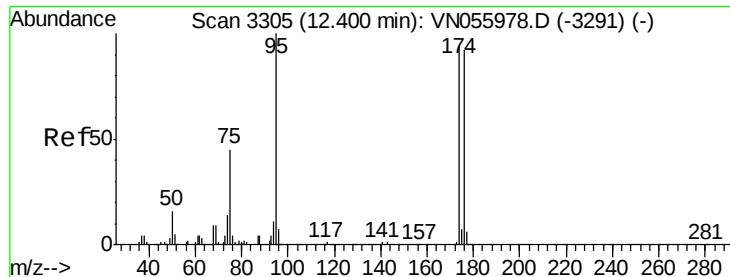
100 65.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 49.650 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604

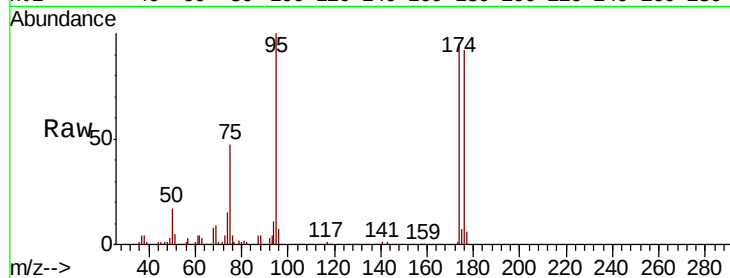
Tot Ion: 95 Resp: 201089

Ion Ratio Lower Upper

95 100

174 95.1 0.0 191.0

176 92.3 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

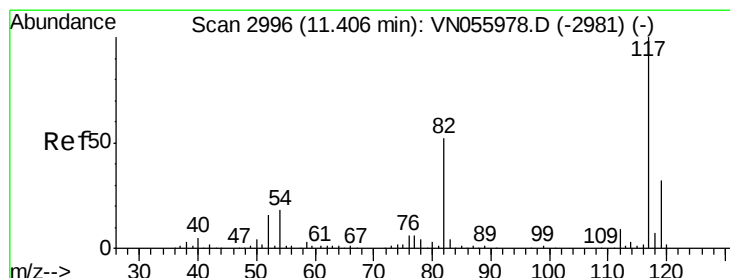
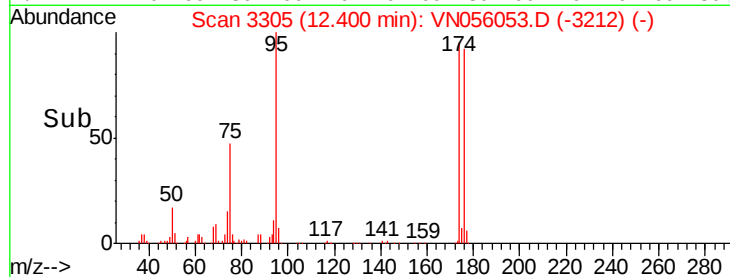
12.40

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

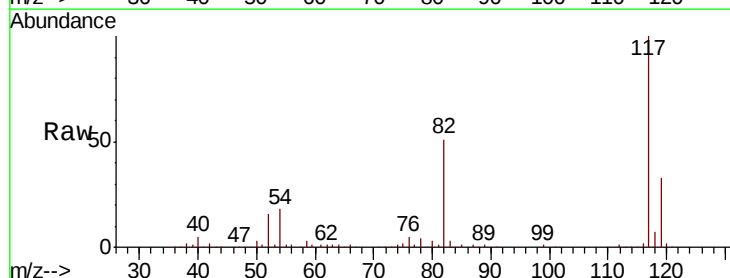
Tgt Ion: 117 Resp: 473589

Ion Ratio Lower Upper

117 100

82 51.3 41.8 62.8

119 32.5 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)

11.41

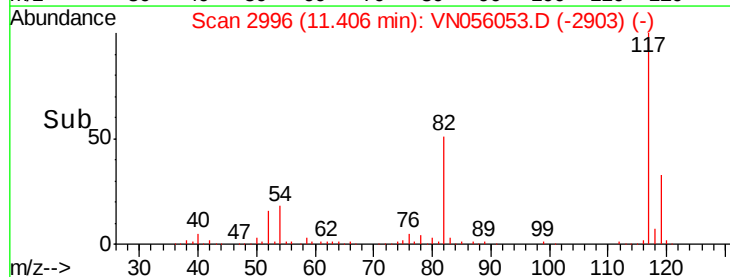
300000

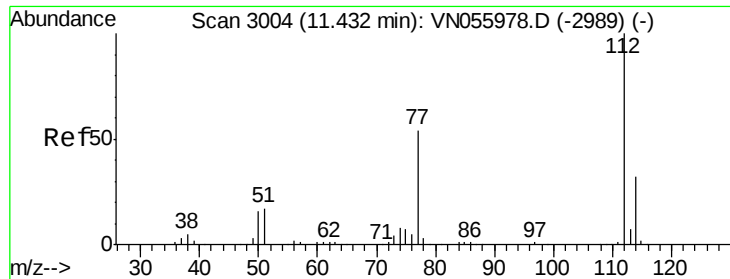
200000

100000

0

Time--> 11.30 11.40 11.50

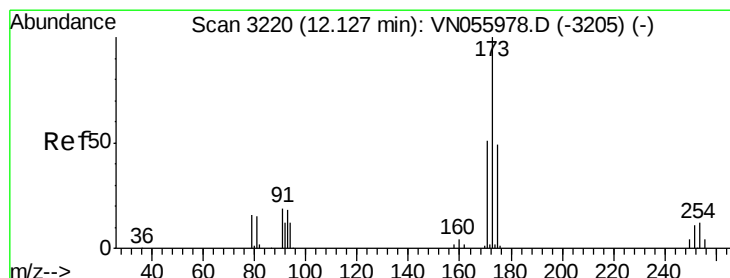
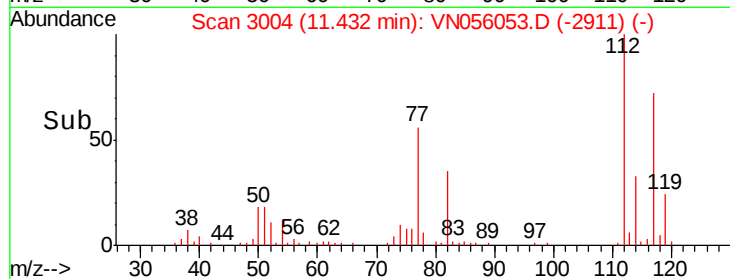
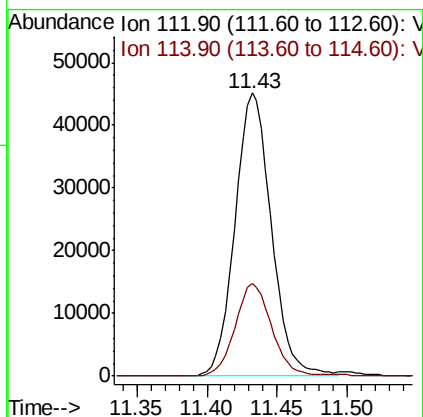
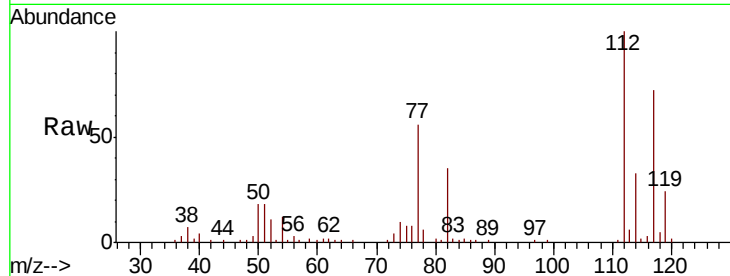




#65
Chlorobenzene
Concen: 8.680 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056053.D
Acq: 6 Jun 2019 18:17

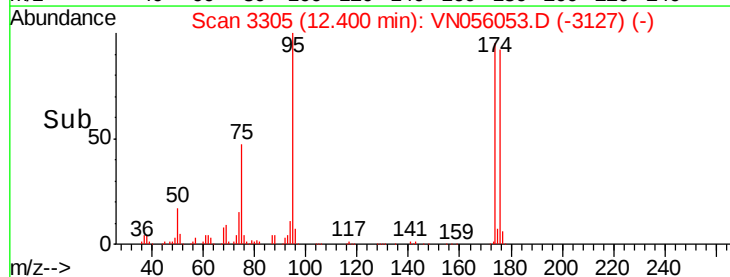
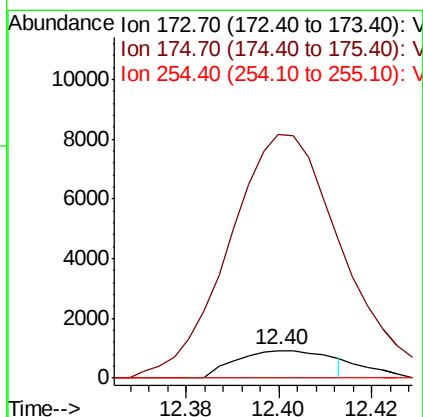
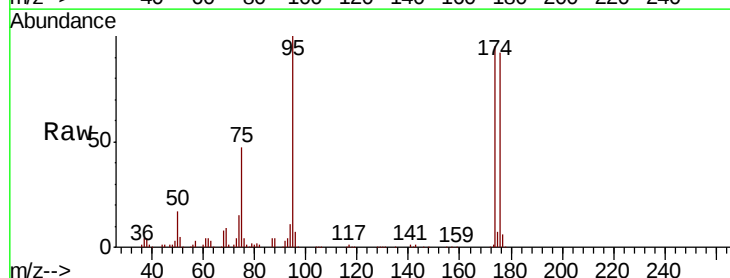
Instrument :
MSVOA_N
ClientSampleId :
LF015MW001-190604

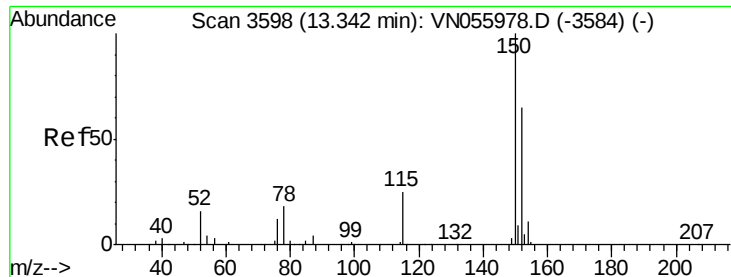
Tot Ion:112 Resp: 81814
Ion Ratio Lower Upper
112 100
114 32.7 26.2 39.4



#71
Bromoform
Concen: 3.188 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056053.D
Acq: 6 Jun 2019 18:17

Tgt Ion:173 Resp: 1288
Ion Ratio Lower Upper
173 100
175 924.1 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604

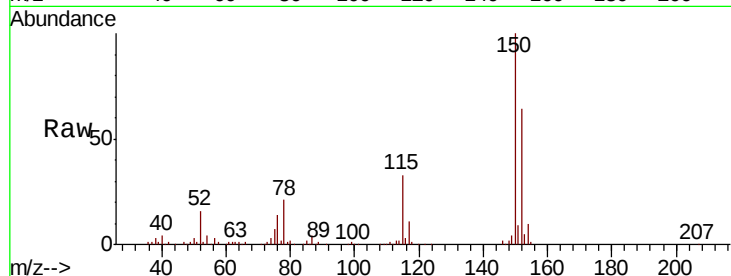
Tot Ion:152 Resp: 152843

Ion Ratio Lower Upper

152 100

115 52.7 27.0 81.0

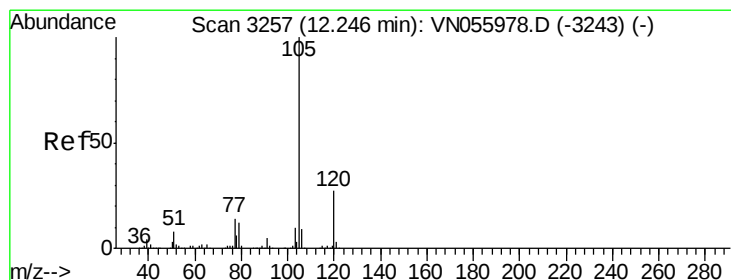
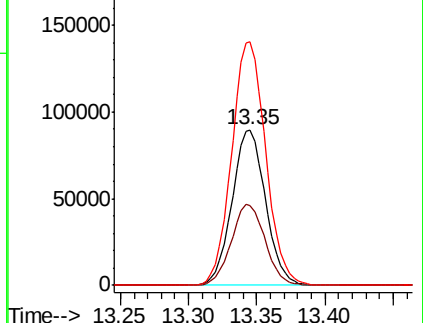
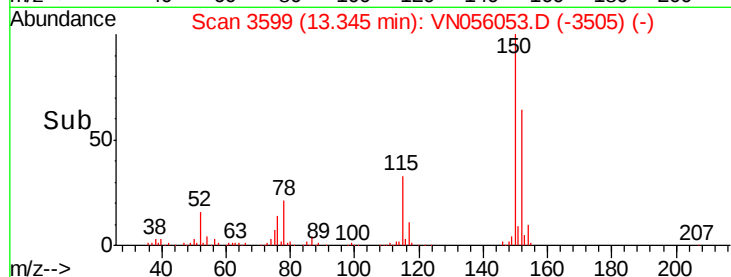
150 159.1 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN056053.D

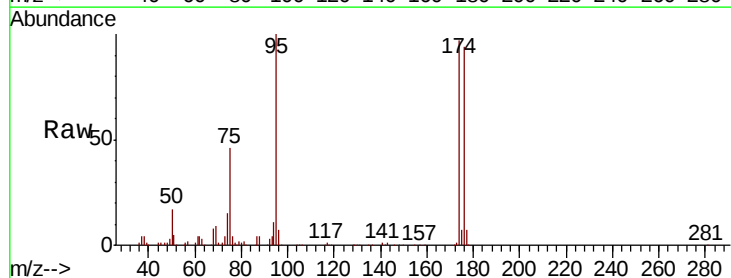
Acq: 6 Jun 2019 18:17

Tgt Ion:105 Resp: 97

Ion Ratio Lower Upper

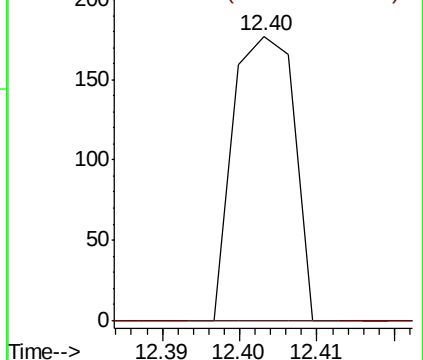
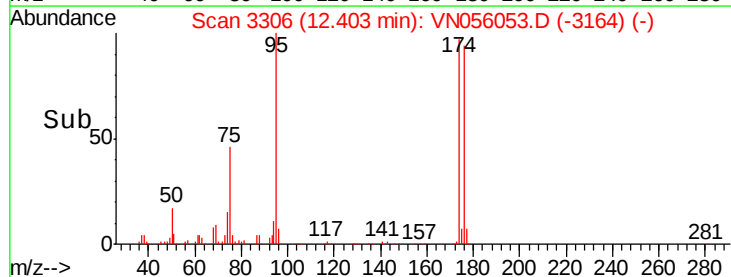
105 100

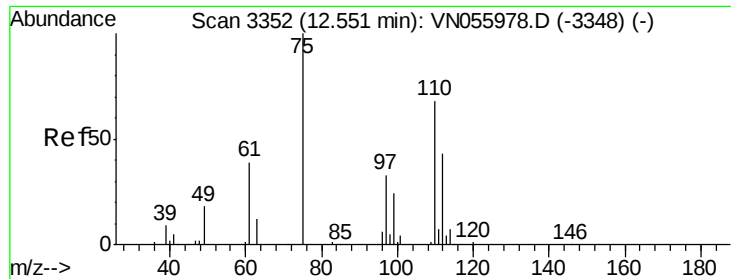
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 33.158 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

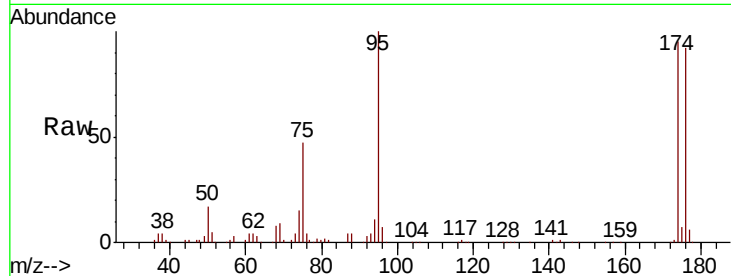
LF015MW001-190604

Tot Ion: 75 Resp: 93253

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

60000

50000

40000

30000

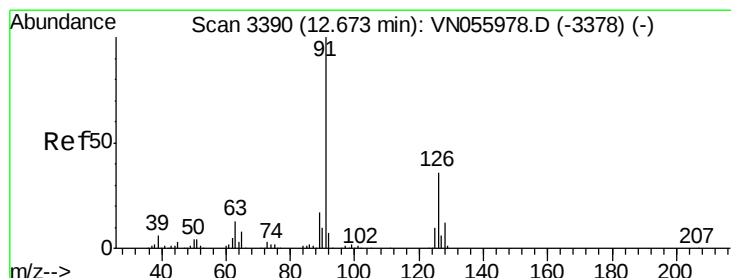
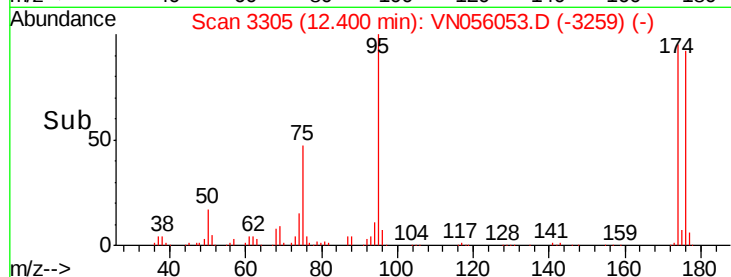
20000

10000

0

Time-->

12.35 12.40 12.45 12.50



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.39 min Scan# 3303

Delta R.T. -0.28 min

Lab File: VN056053.D

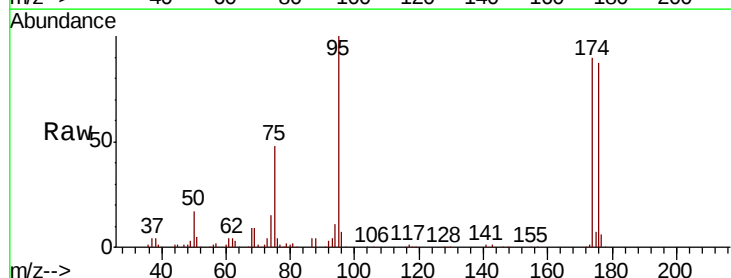
Acq: 6 Jun 2019 18:17

Tgt Ion: 91 Resp: 591

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.39

500

400

300

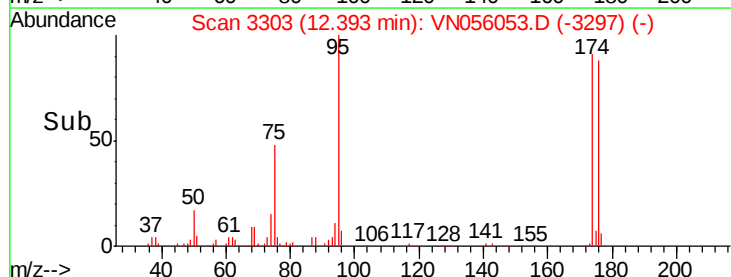
200

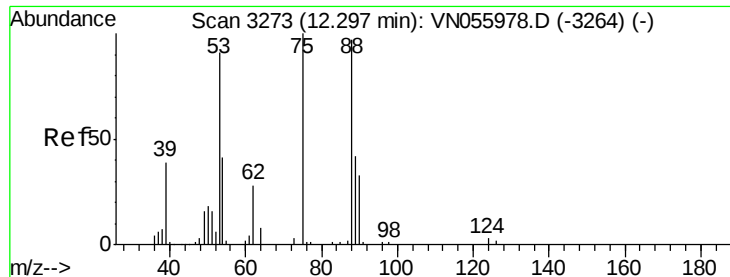
100

0

Time-->

12.38 12.40 12.42





#81

trans-1,4-Dichloro-2-butene

Concen: 110.423 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604

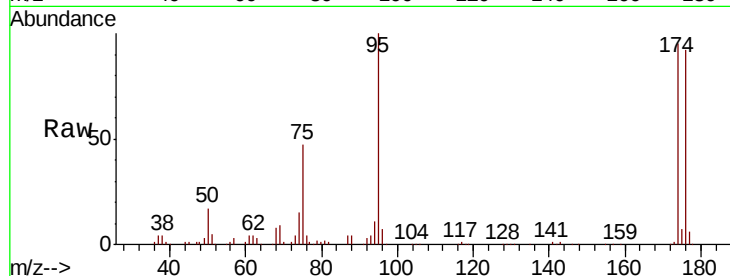
Tot Ion: 75 Resp: 93253

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

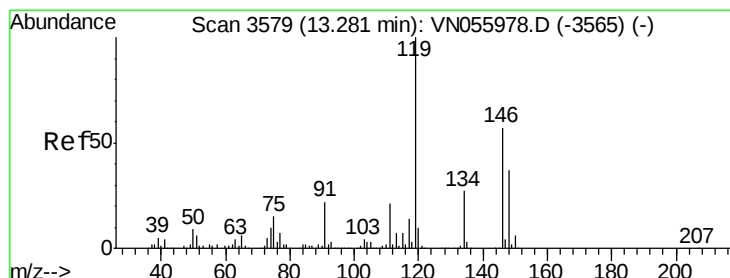
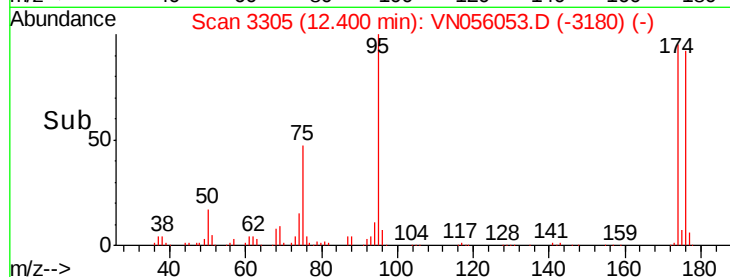
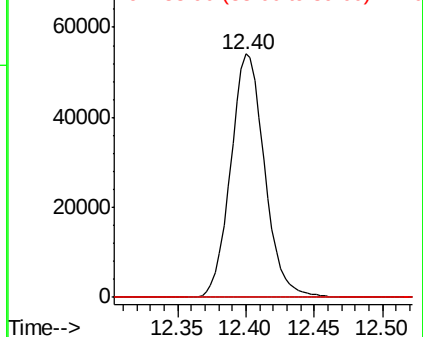
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#87

1,3-Dichlorobenzene

Concen: 0.342 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN056053.D

Acq: 6 Jun 2019 18:17

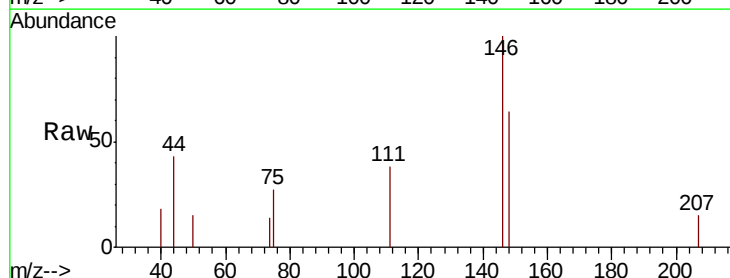
Tgt Ion: 146 Resp: 1734

Ion Ratio Lower Upper

146 100

111 33.6 18.5 55.5

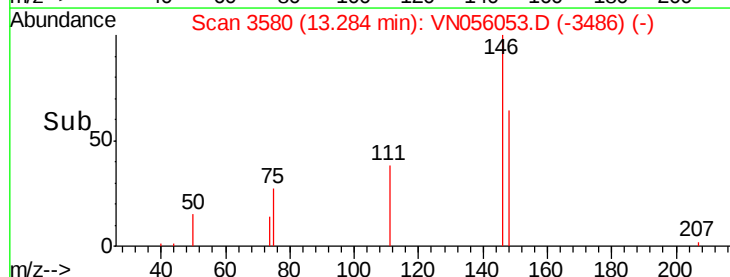
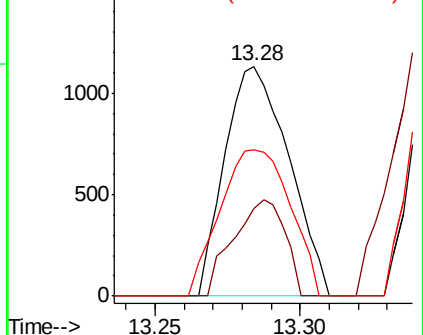
148 69.8 32.0 96.2

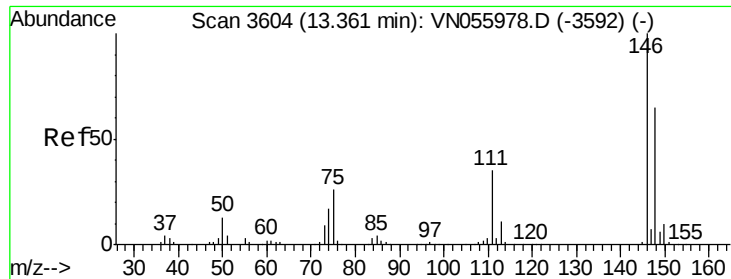


Abundance Ion 145.90 (145.60 to 146.60): VN055978.D (-3565) (-)

Ion 110.90 (110.60 to 111.60): VN055978.D (-3565) (-)

Ion 147.90 (147.60 to 148.60): VN055978.D (-3565) (-)

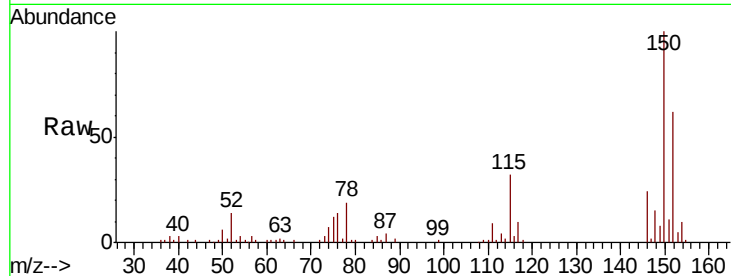




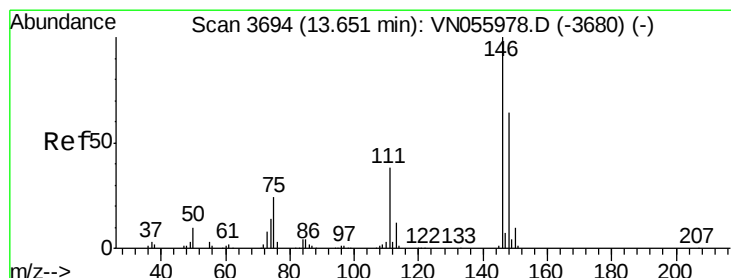
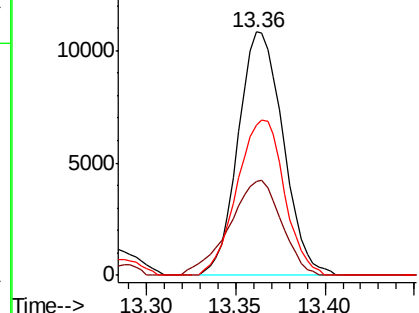
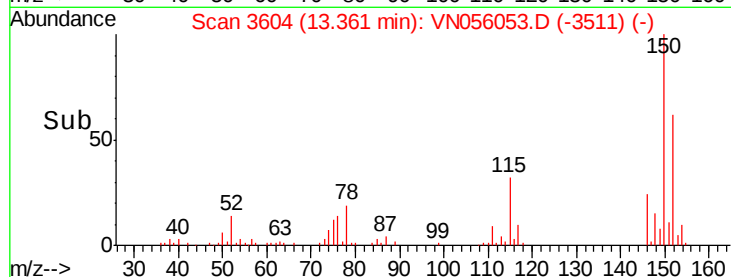
#88
 1,4-Dichlorobenzene
 Concen: 3.906 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN056053.D
 Acq: 6 Jun 2019 18:17

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015MW001-190604

Tot Ion:146 Resp: 19029
 Ion Ratio Lower Upper
 146 100
 111 44.9 18.1 54.4
 148 66.9 32.1 96.5

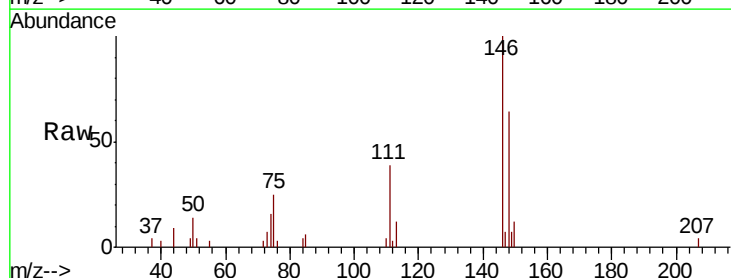


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

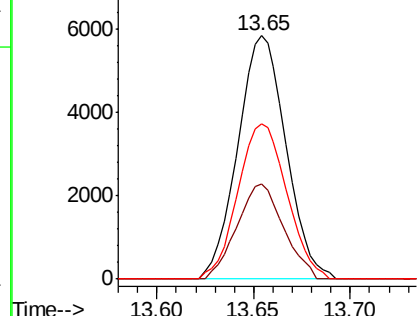
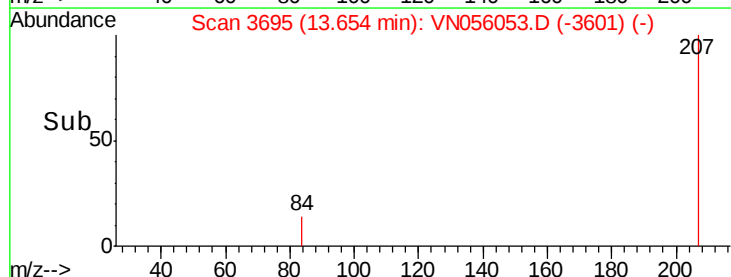


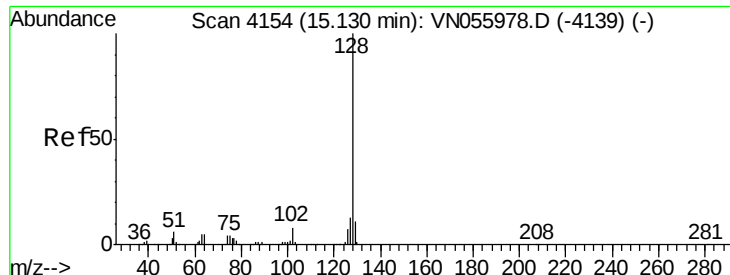
#91
 1,2-Dichlorobenzene
 Concen: 1.976 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN056053.D
 Acq: 6 Jun 2019 18:17

Tgt Ion:146 Resp: 10104
 Ion Ratio Lower Upper
 146 100
 111 37.7 19.1 57.5
 148 64.9 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#95

Naphthalene

Concen: 3.924 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056053.D

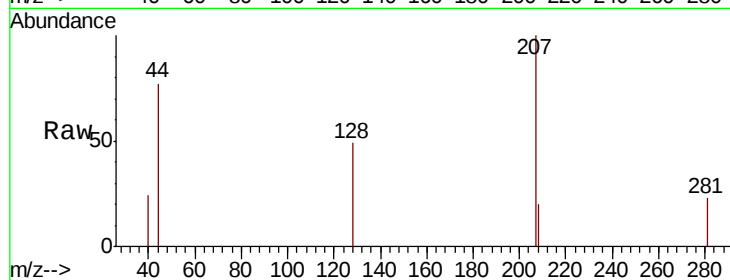
Acq: 6 Jun 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

LF015MW001-190604



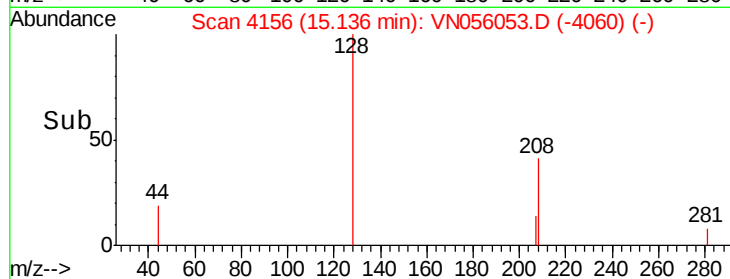
Tot Ion:128 Resp: 577

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

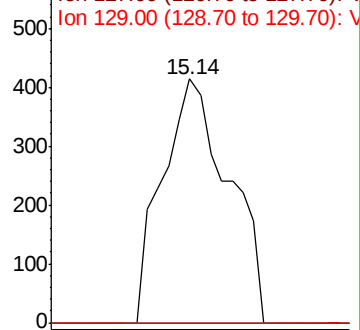
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->