

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055925.D
 Acq On : 31 May 2019 17:39
 Operator : JC/SP
 Sample : K3129-11 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF012MW033-190529

Quant Time: Jun 01 02:02:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	358410	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	534161	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	483606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	151100	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	193824	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
35) Dibromofluoromethane	7.59	113	170120	50.37	ug/l	0.00
Spiked Amount			Recovery	=	100.74%	
50) Toluene-d8	10.09	98	681307	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
62) 4-Bromofluorobenzene	12.40	95	206852	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	

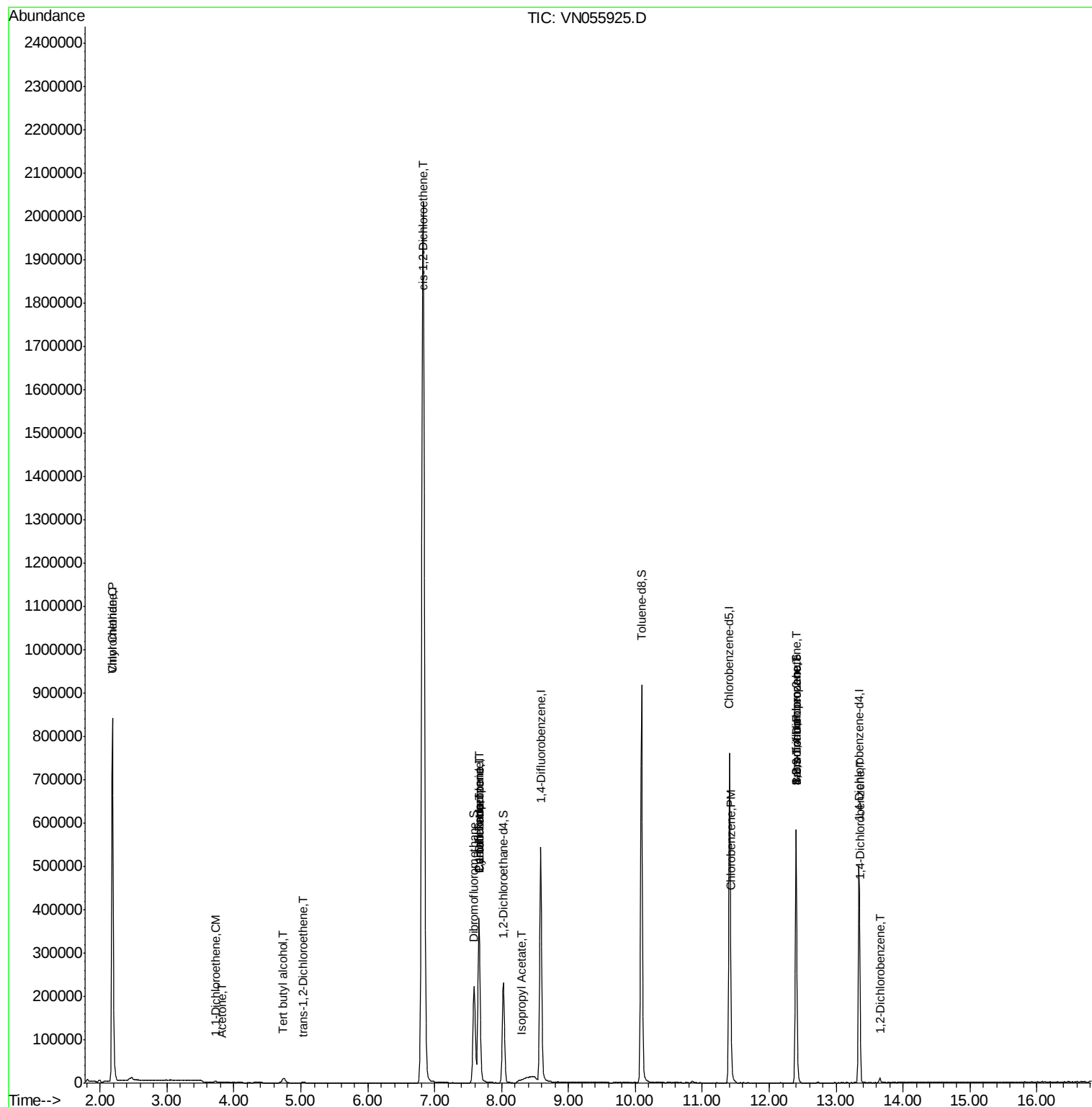
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.18	50	4130	1.222	ug/l #	41
4) Vinyl Chloride	2.18	62	810507	224.848	ug/l	99
11) Tert butyl alcohol	4.74	59	9676	13.682	ug/l #	74
12) 1,1-Dichloroethene	3.72	96	2186	0.717	ug/l	83
16) Acetone	3.82	43	1037	0.637	ug/l #	41
21) trans-1,2-Dichloroethene	5.04	96	1482	0.453	ug/l	89
27) cis-1,2-Dichloroethene	6.83	96	1437683	376.302	ug/l	90
31) Cyclohexane	7.66	56	5214	0.939	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21343	4.585	ug/l #	47
38) Carbon Tetrachloride	7.66	117	29869	6.160	ug/l #	14
43) Isopropyl Acetate	8.29	43	8918	1.180	ug/l #	53
65) Chlorobenzene	11.43	112	24062	2.485	ug/l	100
71) Bromoform	12.40	173	1439	0.437	ug/l #	1
73) Isopropylbenzene	12.39	105	29	Below Cal	#	48
74) N-amyl acetate	12.08	43	227	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	96367	36.168	ug/l #	100
79) 2-Chlorotoluene	12.40	91	560	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	96367	85.811	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.17	105	102	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	102	Below Cal	#	55
88) 1,4-Dichlorobenzene	13.36	146	1476	0.304	ug/l #	13
91) 1,2-Dichlorobenzene	13.65	146	5480	1.076	ug/l	99

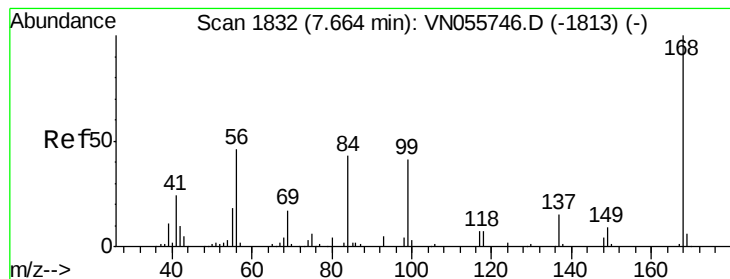
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 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: VN055925.D

Acq: 31 May 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

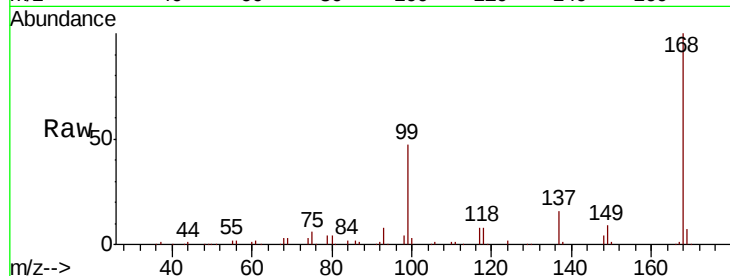
LF012MW033-190529

Tot Ion:168 Resp: 358410

Ion Ratio Lower Upper

168 100

99 46.7 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

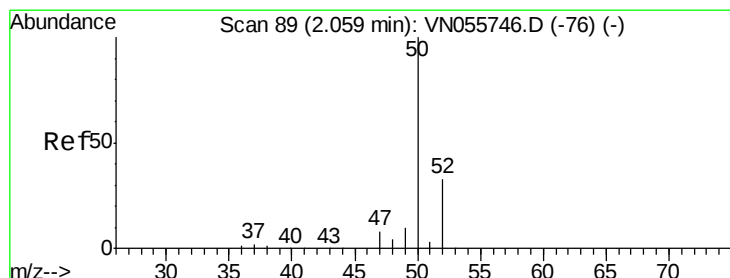
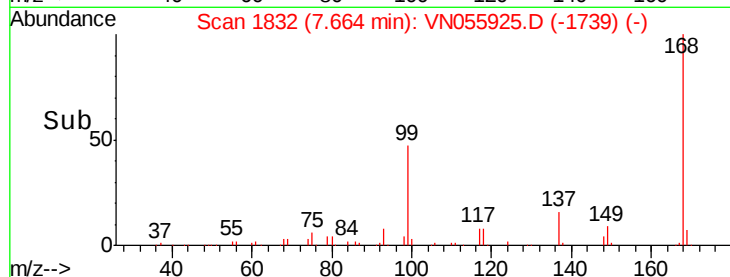
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 1.222 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.13 min

Lab File: VN055925.D

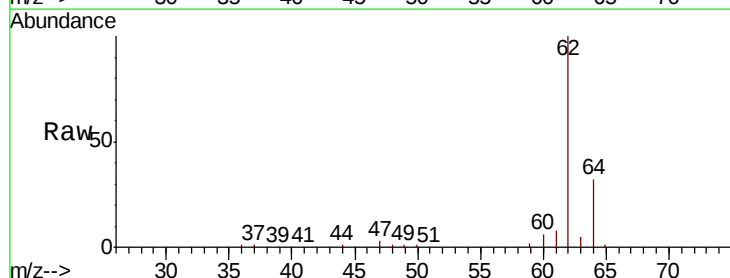
Acq: 31 May 2019 17:39

Tgt Ion: 50 Resp: 4130

Ion Ratio Lower Upper

50 100

52 0.0 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.18

3000

2500

2000

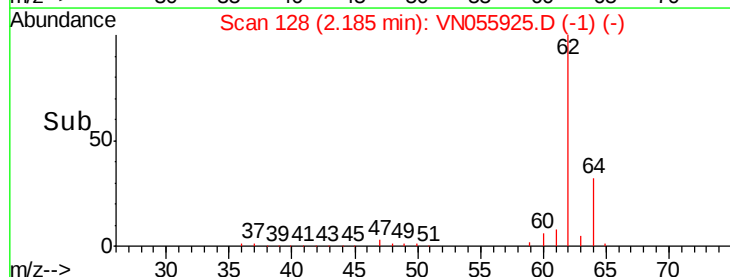
1500

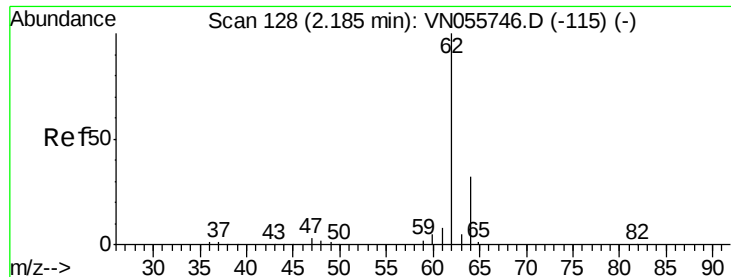
1000

500

0

Time--> 2.15 2.20





#4

Vinyl Chloride

Concen: 224.848 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

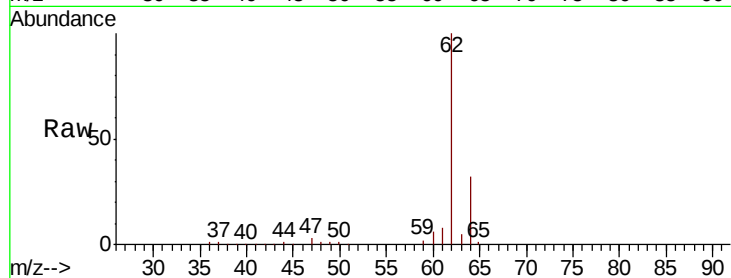
LF012MW033-190529

Tot Ion: 62 Resp: 810507

Ion Ratio Lower Upper

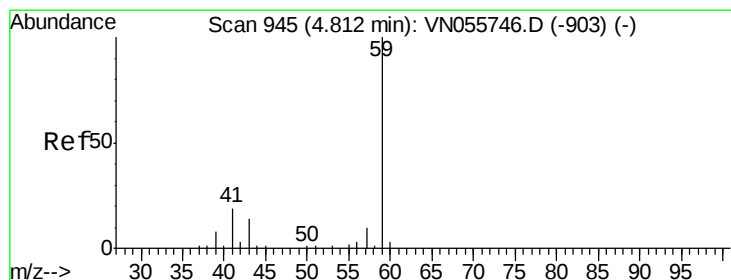
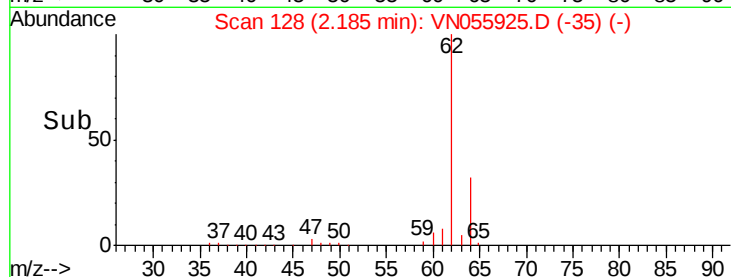
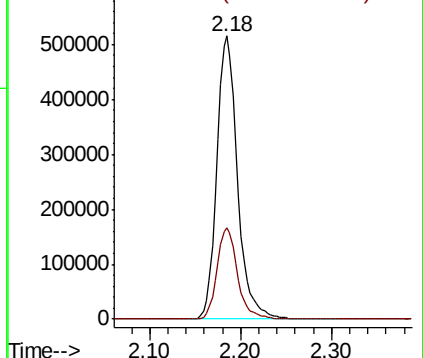
62 100

64 32.5 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#11

Tert butyl alcohol

Concen: 13.682 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055925.D

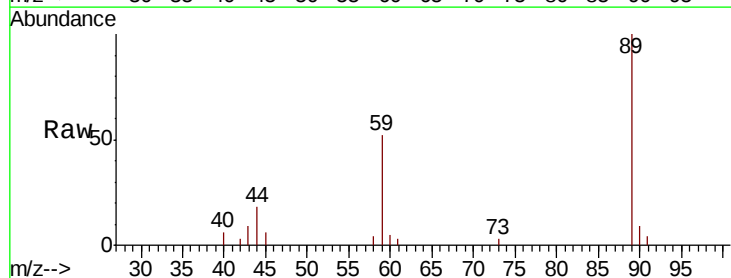
Acq: 31 May 2019 17:39

Tgt Ion: 59 Resp: 9676

Ion Ratio Lower Upper

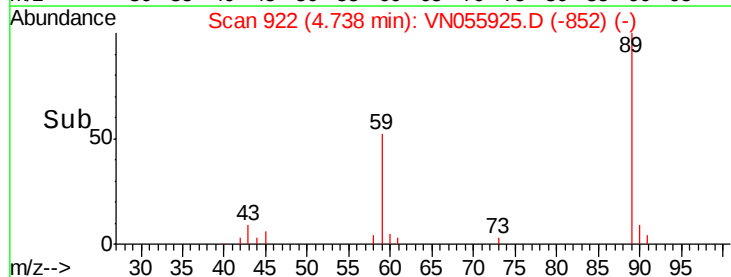
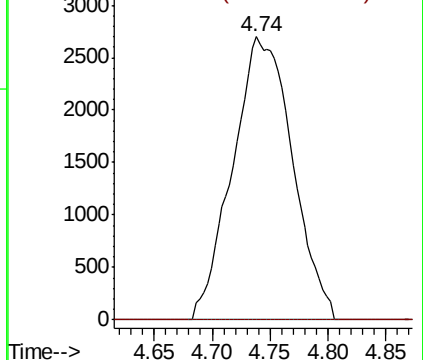
59 100

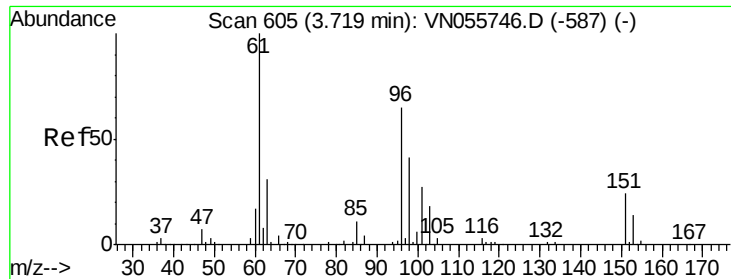
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

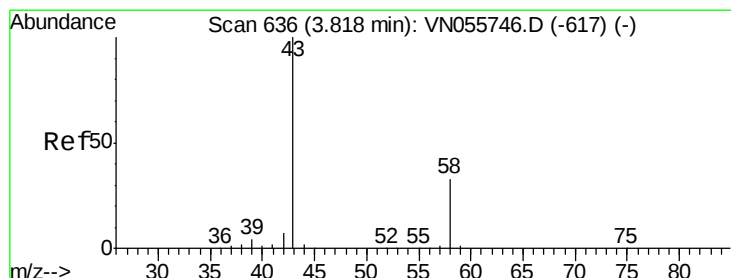
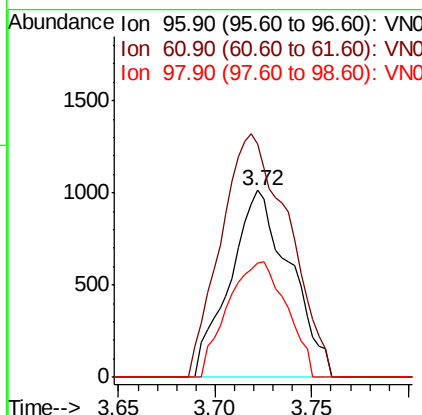
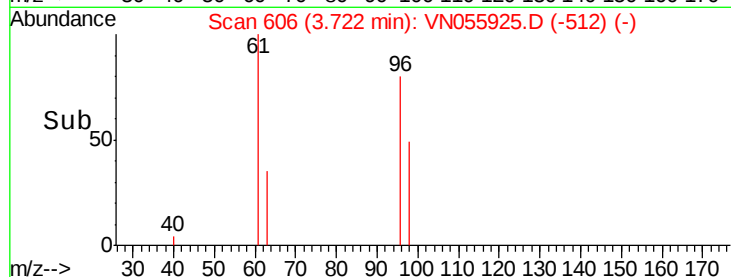
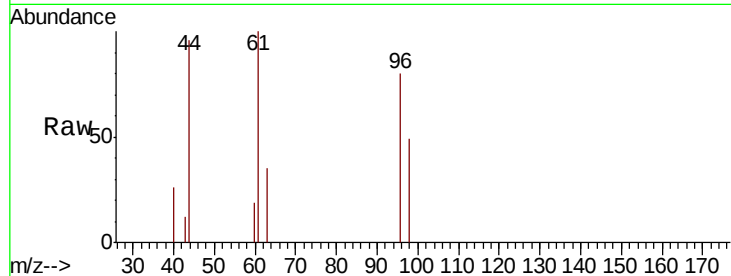




#12
 1,1-Dichloroethene
 Concen: 0.717 ug/l
 RT: 3.72 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VN055925.D
 Acq: 31 May 2019 17:39

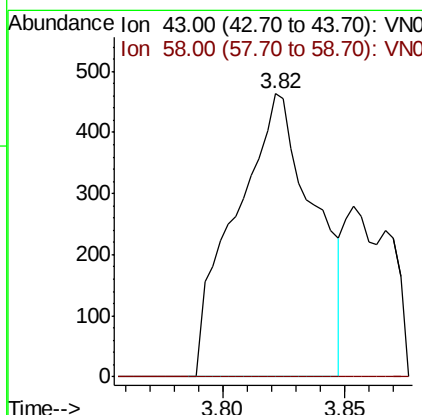
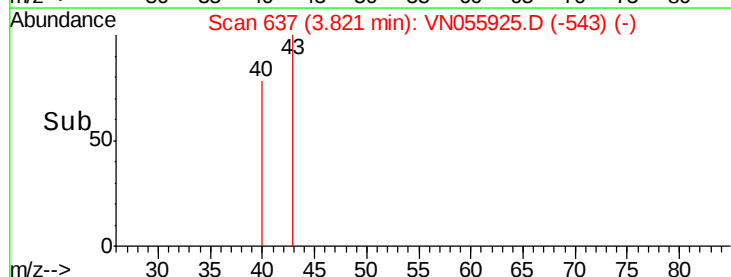
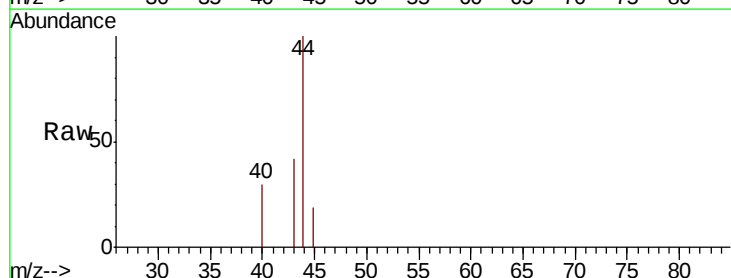
Instrument :
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 LF012MW033-190529

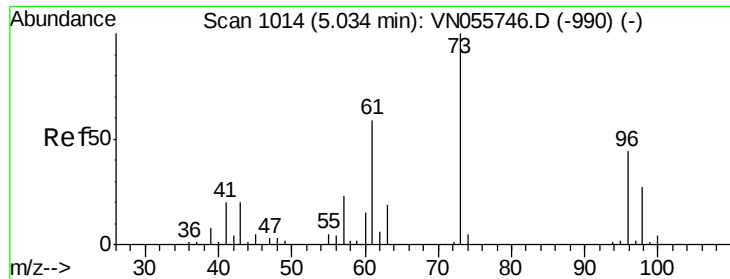
Tot Ion: 96 Resp: 2186
 Ion Ratio Lower Upper
 96 100
 61 125.2 123.2 184.8
 98 61.2 50.4 75.6



#16
 Acetone
 Concen: 0.637 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN055925.D
 Acq: 31 May 2019 17:39

Tgt Ion: 43 Resp: 1037
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.6 39.8#

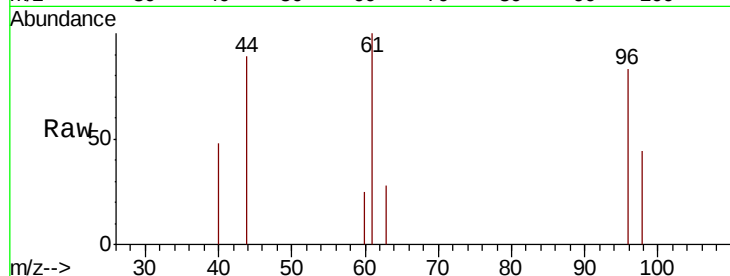




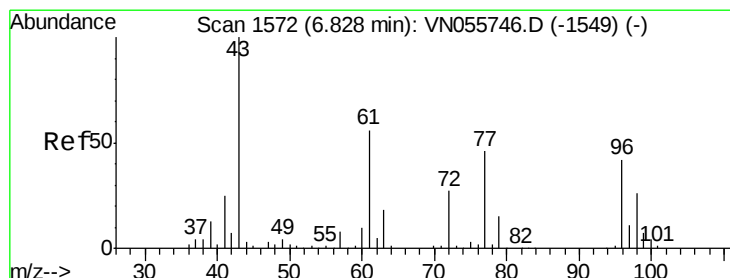
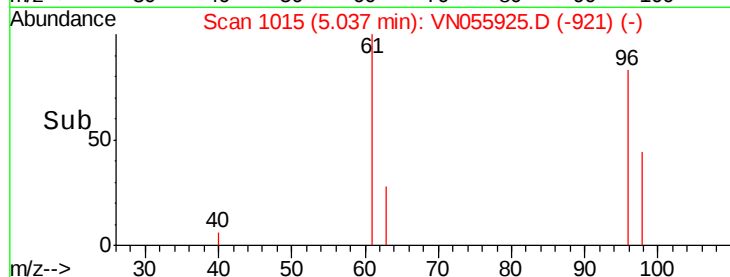
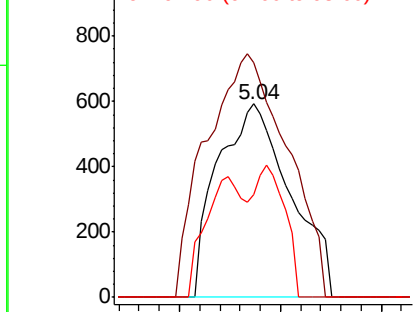
#21
trans-1,2-Dichloroethene
Concen: 0.453 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN055925.D
Acq: 31 May 2019 17:39

Instrument :
MSVOA_N
ClientSampleId :
LF012MW033-190529

Tot Ion: 96 Resp: 1482
Ion Ratio Lower Upper
96 100
61 121.1 107.8 161.8
98 53.5 49.8 74.8

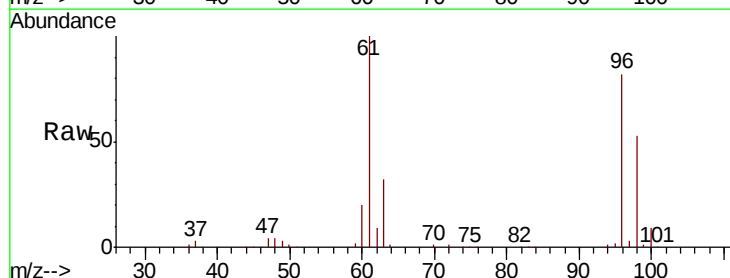


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

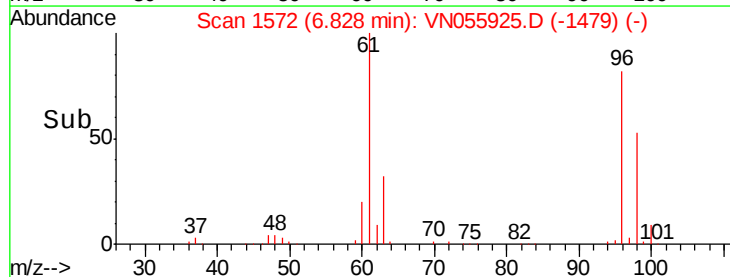
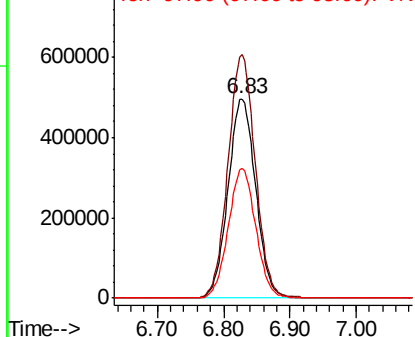


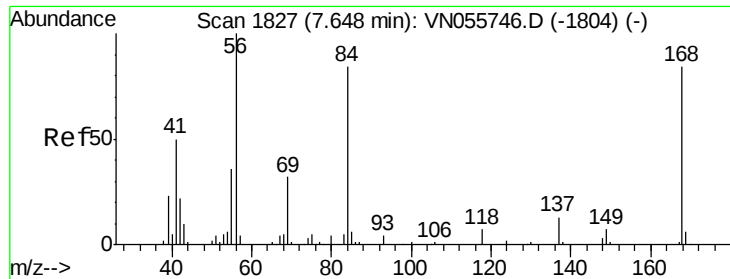
#27
cis-1,2-Dichloroethene
Concen: 376.302 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN055925.D
Acq: 31 May 2019 17:39

Tgt Ion: 96 Resp: 1437683
Ion Ratio Lower Upper
96 100
61 120.9 0.0 275.8
98 64.6 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

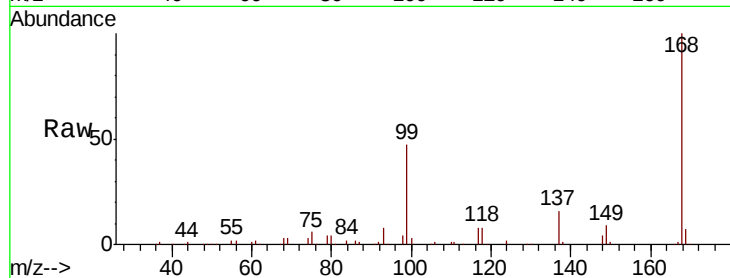




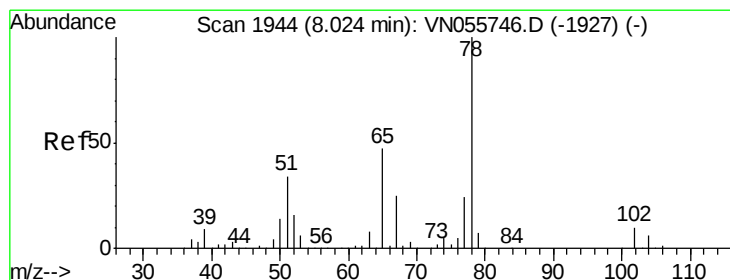
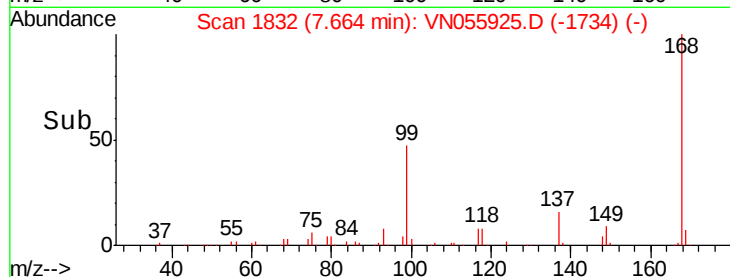
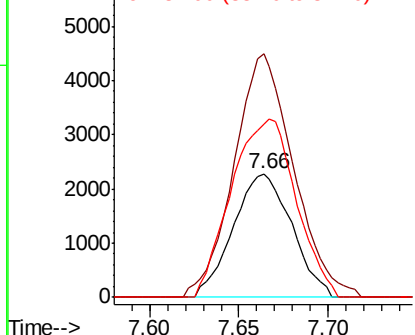
#31
Cyclohexane
Concen: 0.939 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN055925.D
Acq: 31 May 2019 17:39

Instrument :
MSVOA_N
ClientSampleId :
LF012MW033-190529

Tot Ion: 56 Resp: 5214
Ion Ratio Lower Upper
56 100
69 189.5 25.6 38.4#
84 140.1 67.4 101.0#

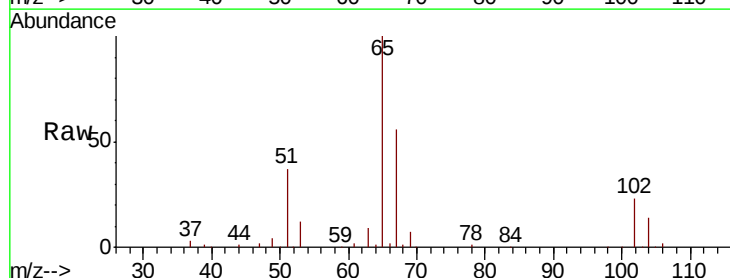


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

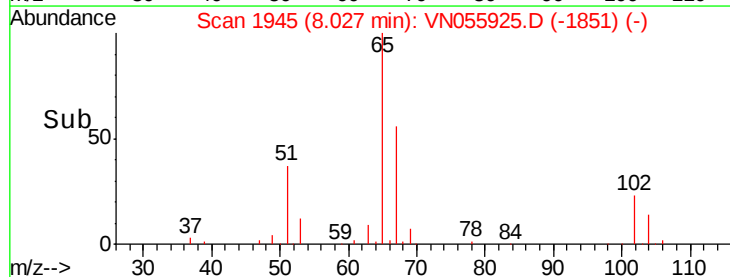
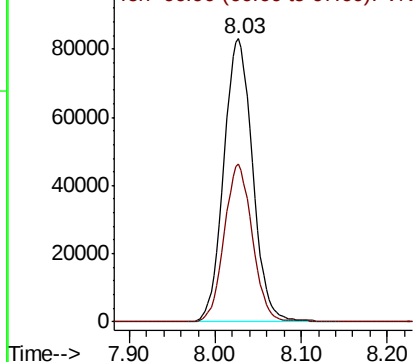


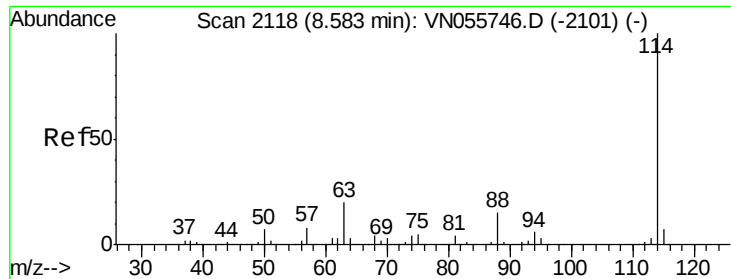
#33
1,2-Dichloroethane-d4
Concen: 52.365 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055925.D
Acq: 31 May 2019 17:39

Tgt Ion: 65 Resp: 193824
Ion Ratio Lower Upper
65 100
67 54.1 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

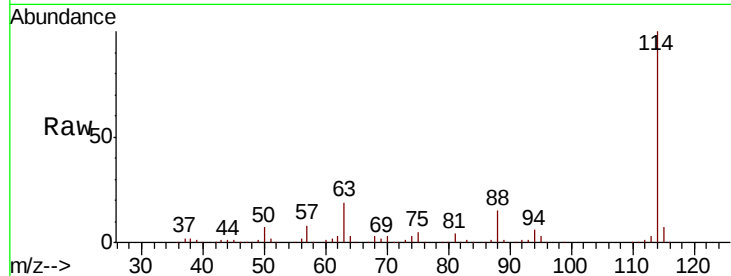




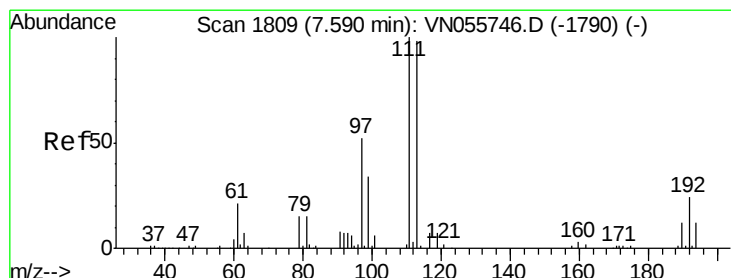
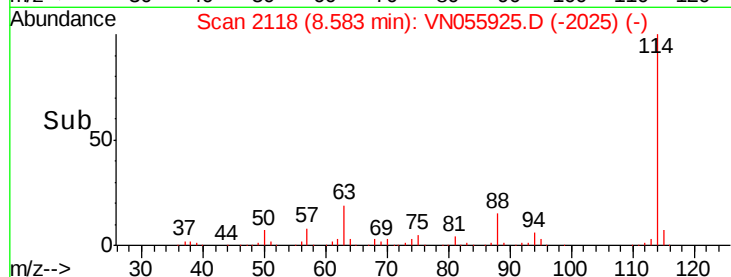
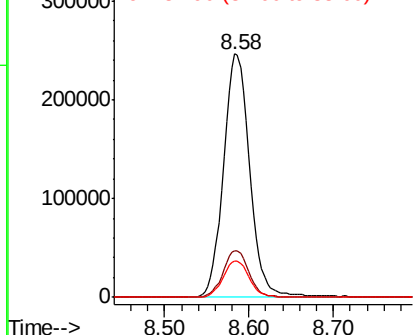
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055925.D
 Acq: 31 May 2019 17:39

Instrument :
 MSVOA_N
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 LF012MW033-190529

Tot Ion:114 Resp: 534161
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.2
 88 15.1 0.0 31.0

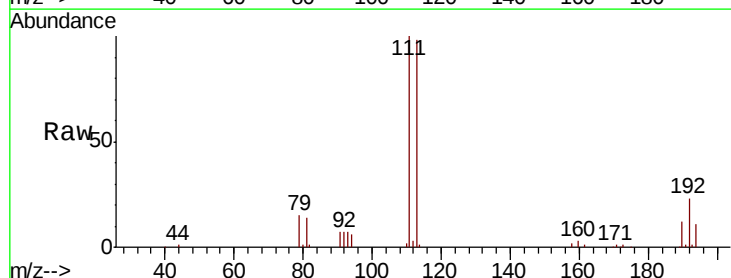


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

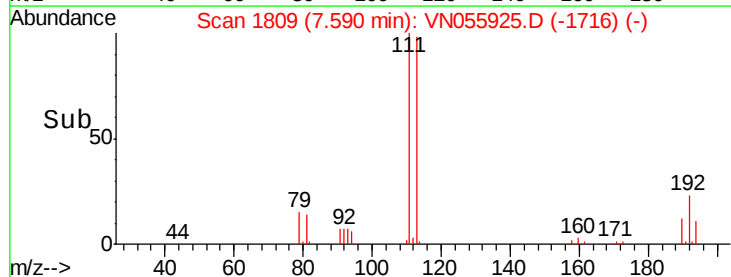
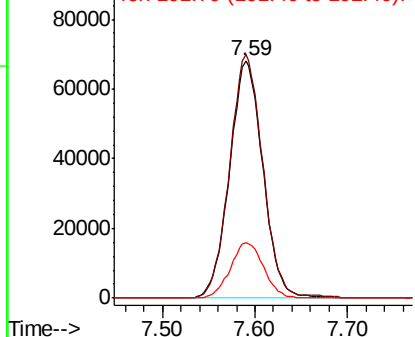


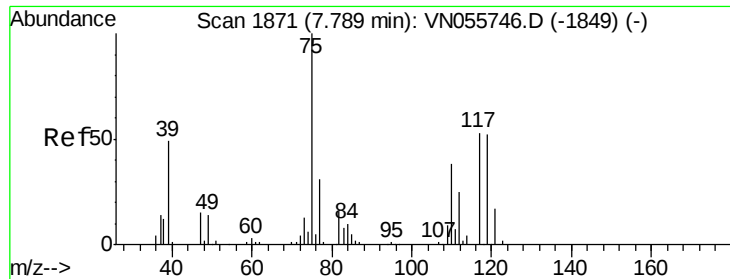
#35
 Dibromofluoromethane
 Concen: 50.374 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055925.D
 Acq: 31 May 2019 17:39

Tgt Ion:113 Resp: 170120
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.9 122.9
 192 23.2 19.5 29.3



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





#36

1,1-Dichloropropene

Concen: 4.585 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LF012MW033-190529

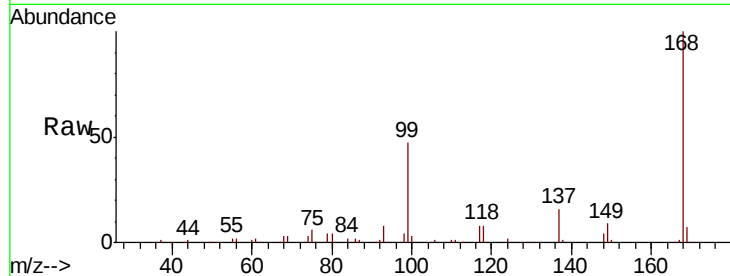
Tot Ion: 75 Resp: 21343

Ion Ratio Lower Upper

75 100

110 8.2 19.0 57.0#

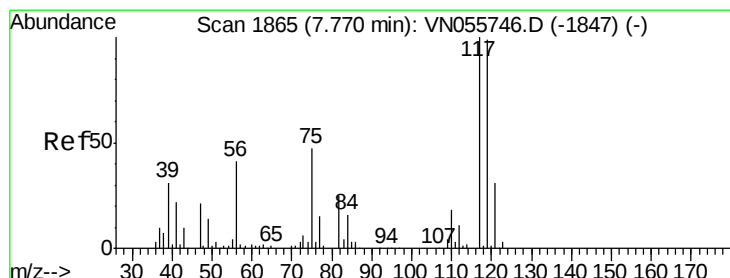
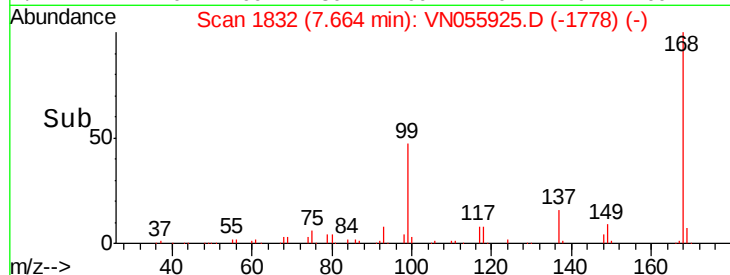
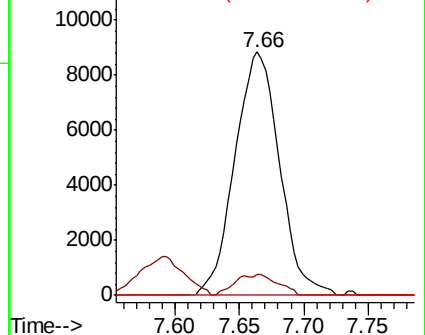
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.160 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

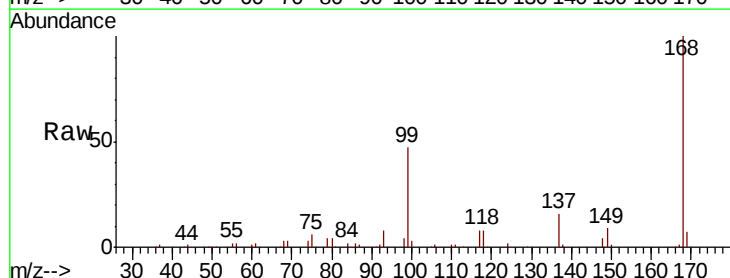
Tgt Ion: 117 Resp: 29869

Ion Ratio Lower Upper

117 100

119 4.5 79.0 118.6#

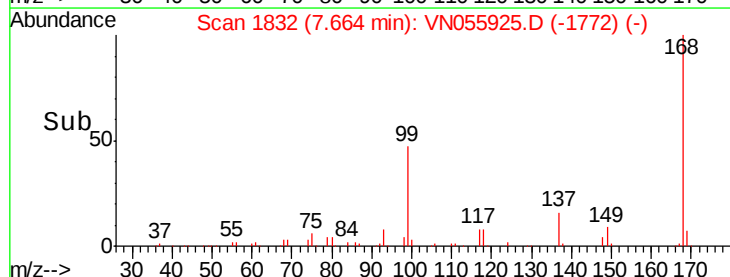
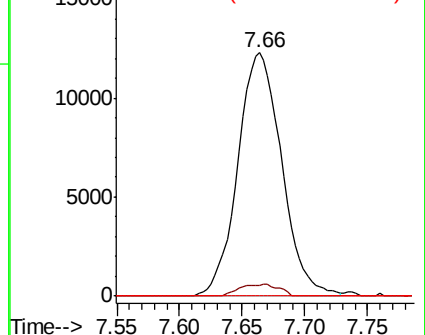
121 0.0 24.7 37.1#

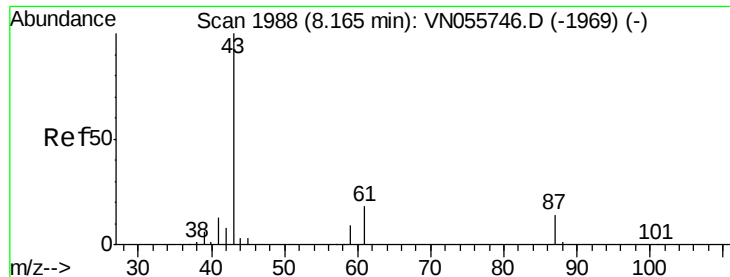


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 1.180 ug/l

RT: 8.29 min Scan# 2028

Delta R.T. 0.13 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LF012MW033-190529

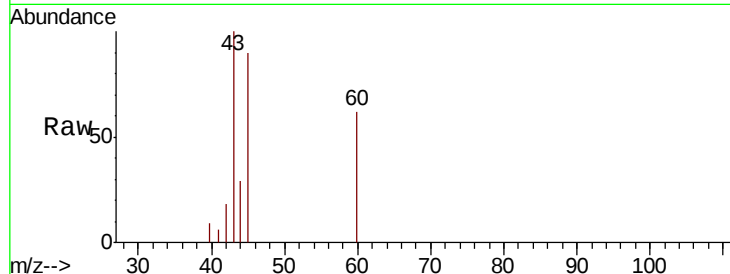
Tot Ion: 43 Resp: 8918

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

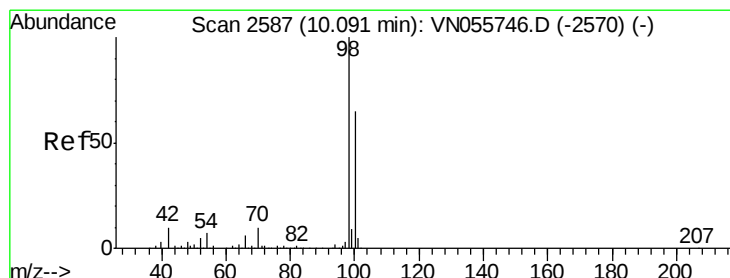
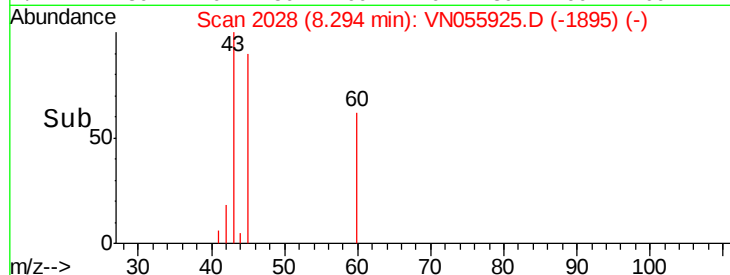
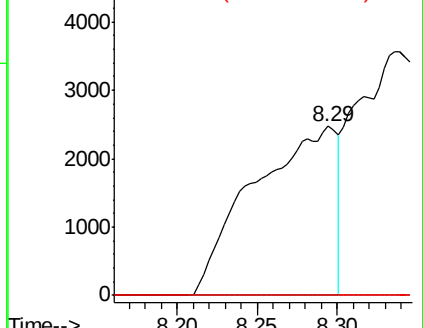
87 0.0 11.4 17.2#



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: 52.593 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055925.D

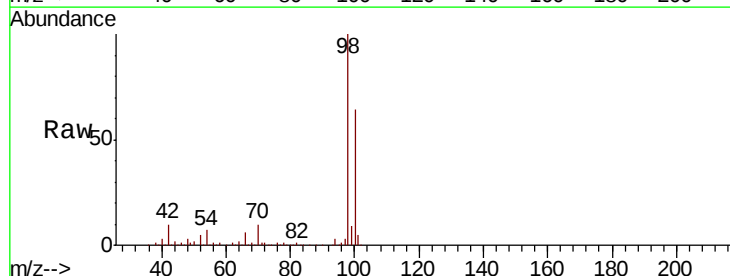
Acq: 31 May 2019 17:39

Tgt Ion: 98 Resp: 681307

Ion Ratio Lower Upper

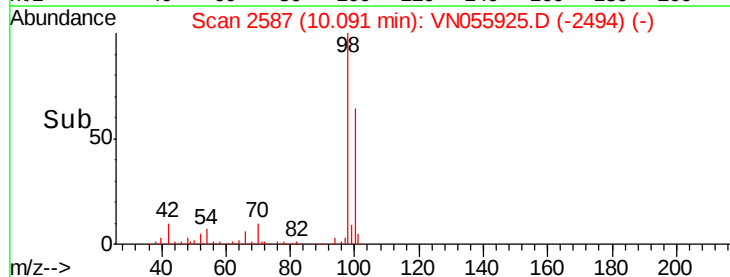
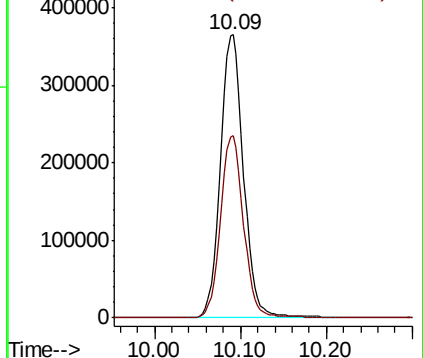
98 100

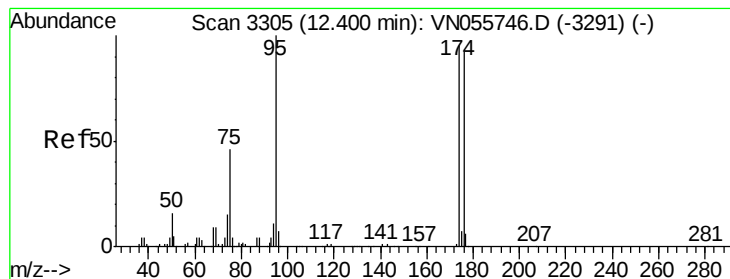
100 64.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 46.568 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LF012MW033-190529

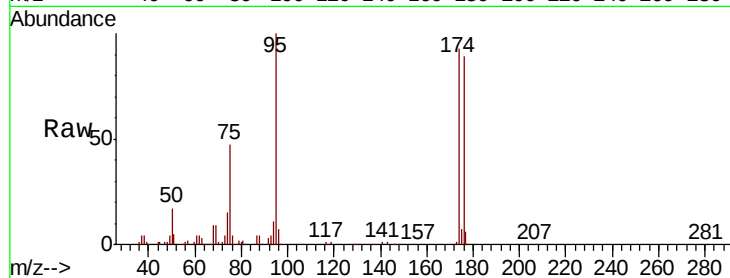
Tot Ion: 95 Resp: 206852

Ion Ratio Lower Upper

95 100

174 93.0 0.0 191.0

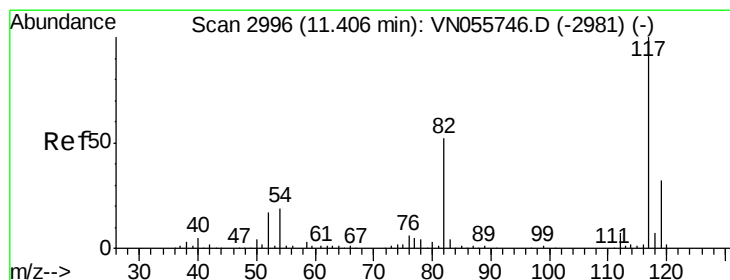
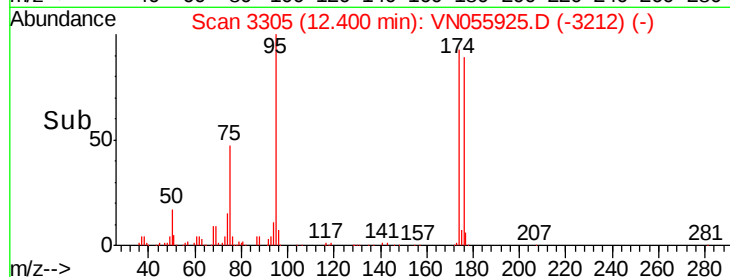
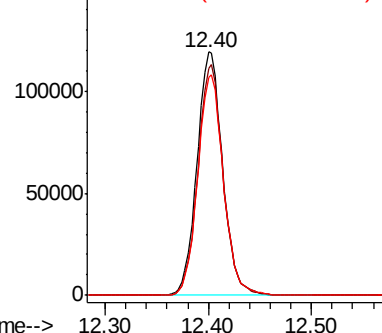
176 90.7 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

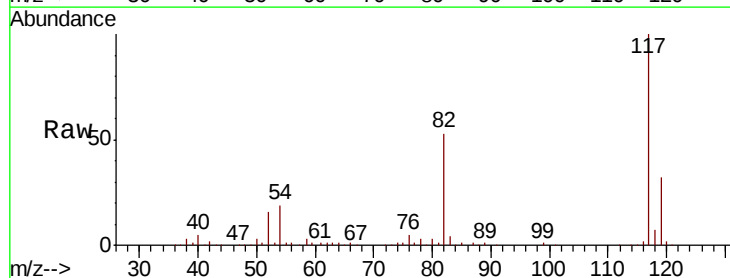
Tgt Ion: 117 Resp: 483606

Ion Ratio Lower Upper

117 100

82 52.7 41.8 62.8

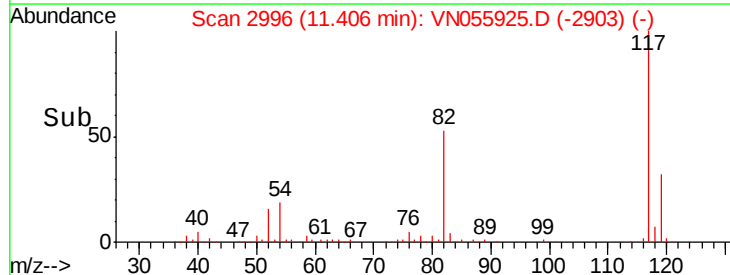
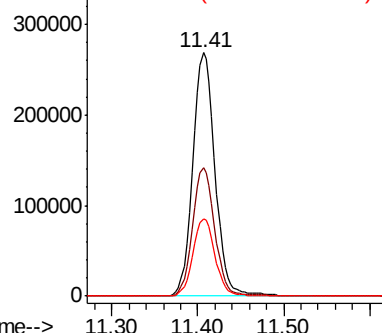
119 31.8 25.4 38.0

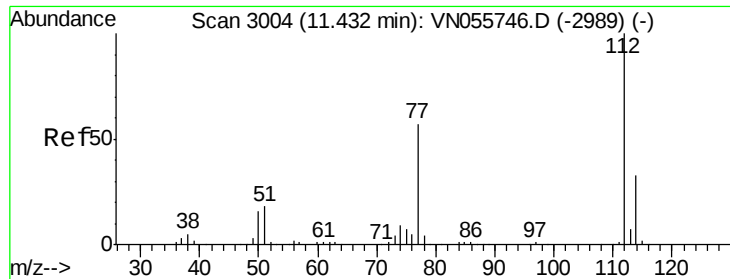


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

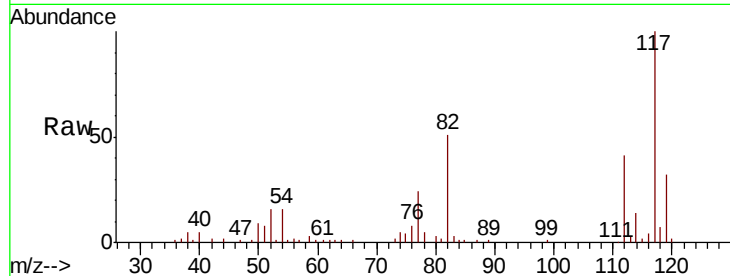




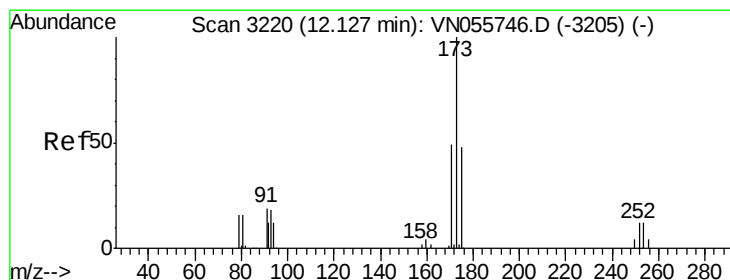
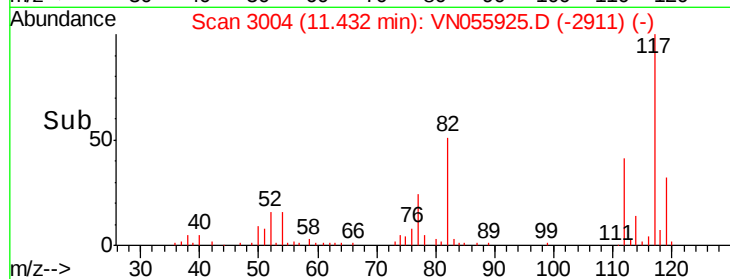
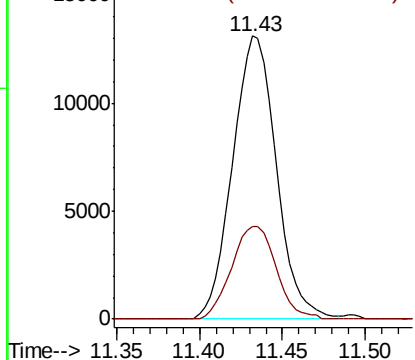
#65
Chlorobenzene
Concen: 2.485 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055925.D
Acq: 31 May 2019 17:39

Instrument :
MSVOA_N
ClientSampleId :
LF012MW033-190529

Tot Ion:112 Resp: 24062
Ion Ratio Lower Upper
112 100
114 32.8 26.2 39.4

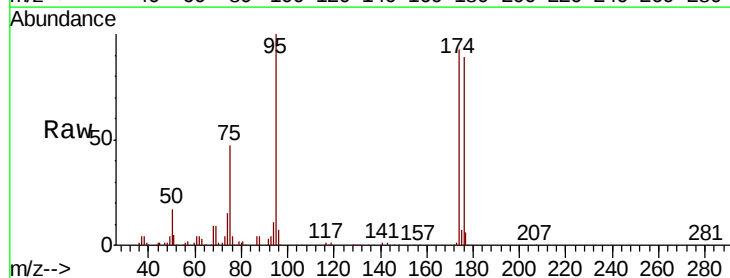


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

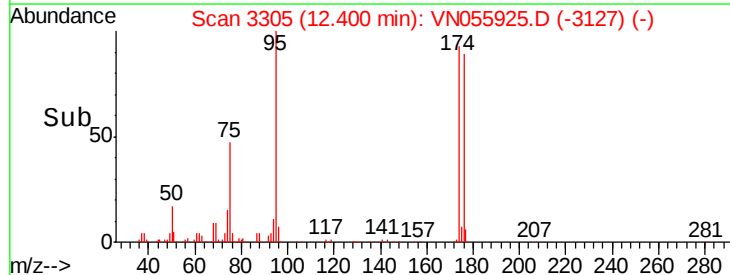
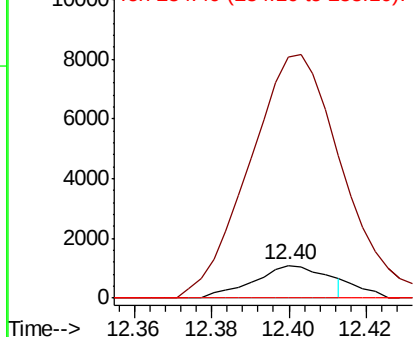


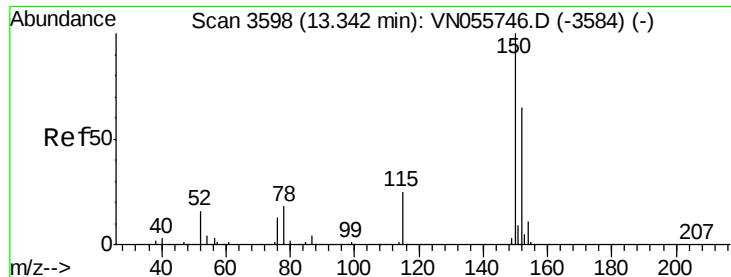
#71
Bromoform
Concen: 0.437 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055925.D
Acq: 31 May 2019 17:39

Tgt Ion:173 Resp: 1439
Ion Ratio Lower Upper
173 100
175 814.2 24.3 72.8#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LF012MW033-190529

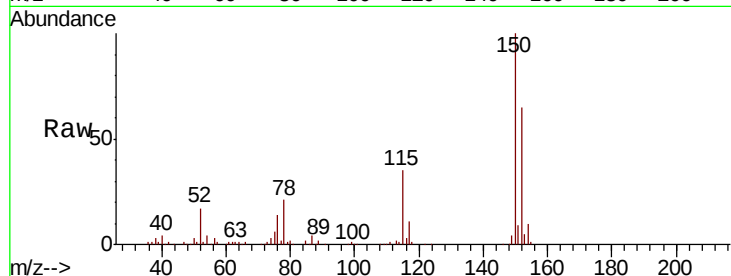
Tot Ion:152 Resp: 151100

Ion Ratio Lower Upper

152 100

115 54.0 27.0 81.0

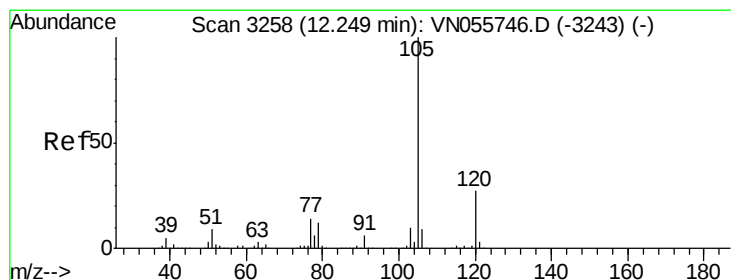
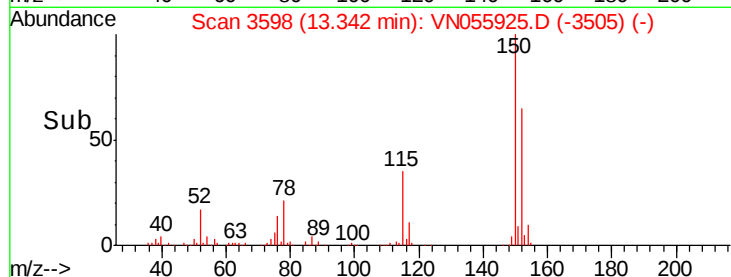
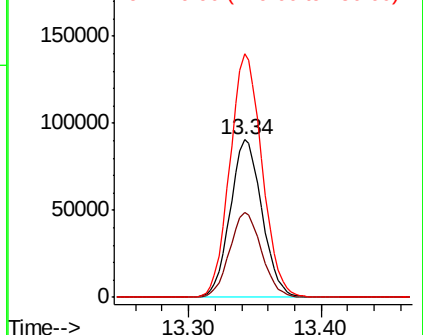
150 156.2 0.0 343.2



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: 12.39 min Scan# 3303

Delta R.T. 0.15 min

Lab File: VN055925.D

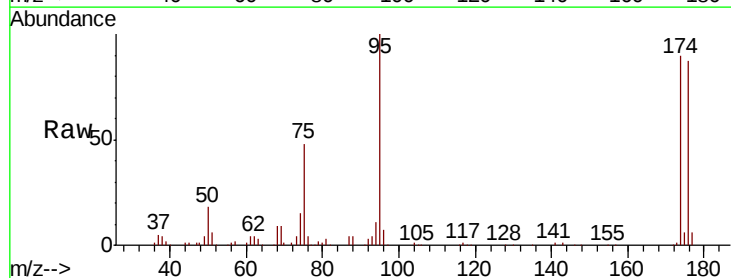
Acq: 31 May 2019 17:39

Tgt Ion:105 Resp: 29

Ion Ratio Lower Upper

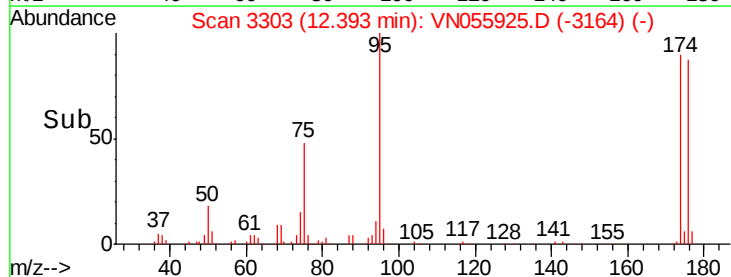
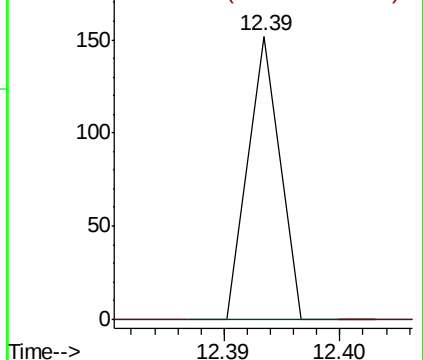
105 100

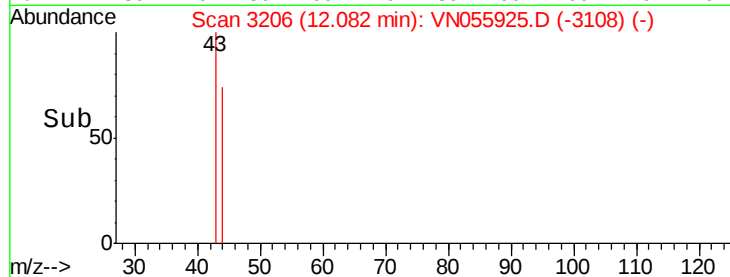
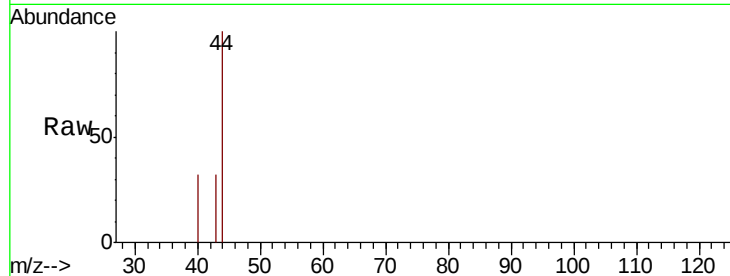
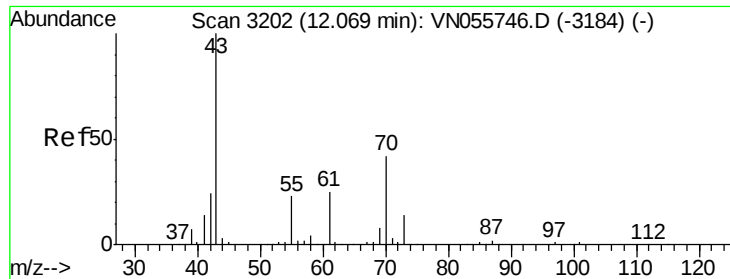
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.08 min Scan# 3206

Delta R.T. 0.01 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

LF012MW033-190529

Tot Ion: 43 Resp: 227

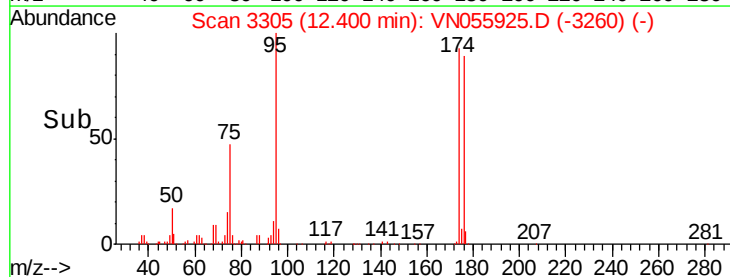
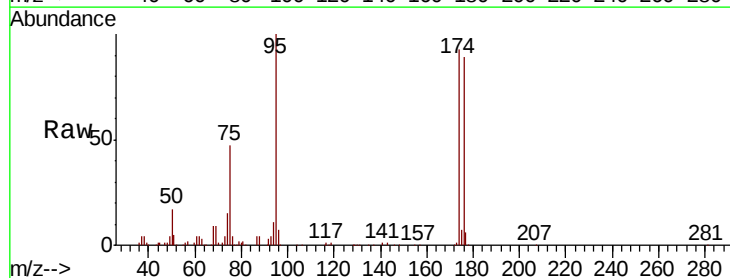
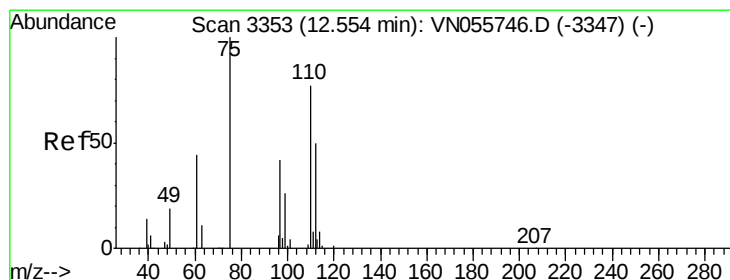
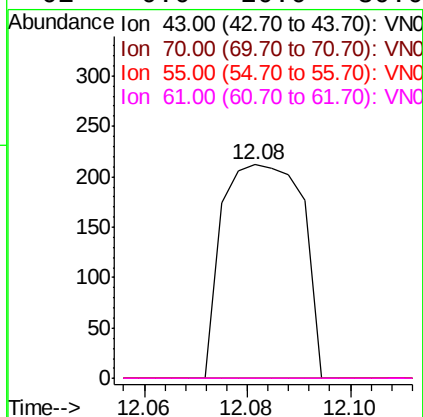
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 36.168 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055925.D

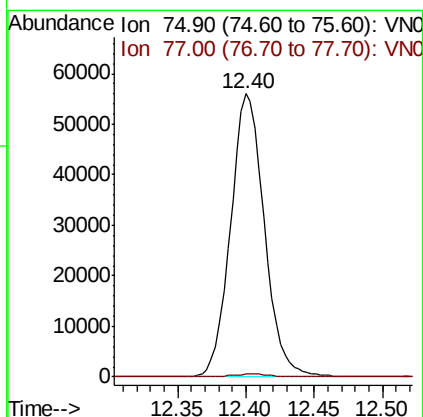
Acq: 31 May 2019 17:39

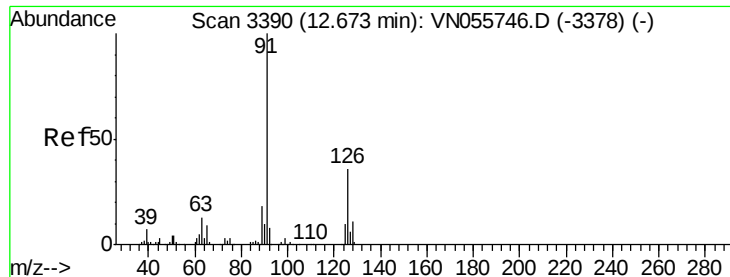
Tgt Ion: 75 Resp: 96367

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.27 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

Instrument :

MSVOA_N

ClientSampleId :

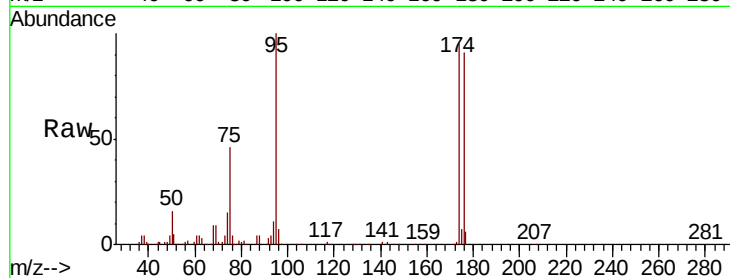
LF012MW033-190529

Tot Ion: 91 Resp: 560

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

12.40

400

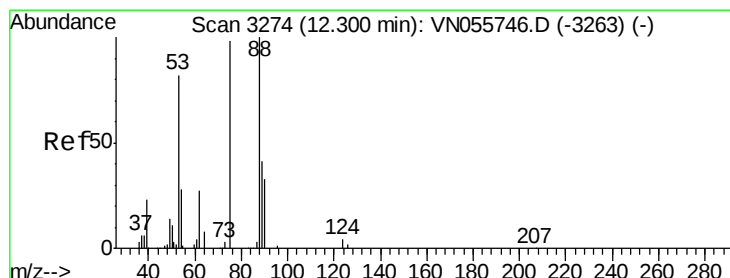
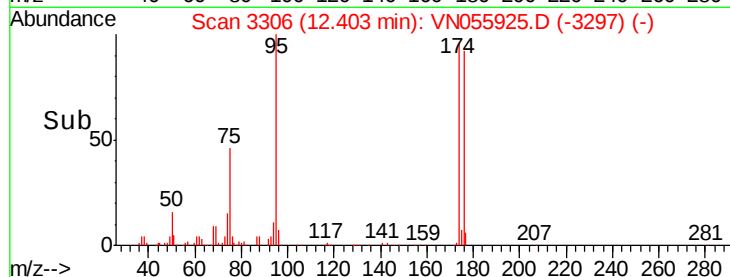
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 85.811 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055925.D

Acq: 31 May 2019 17:39

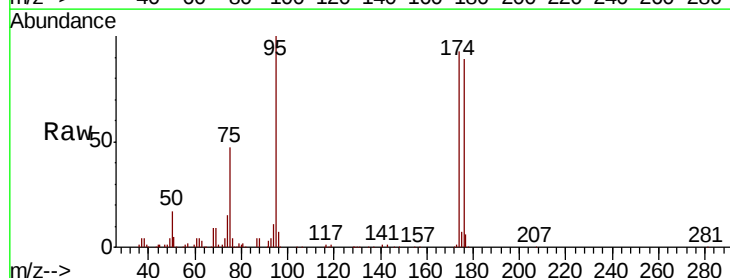
Tgt Ion: 75 Resp: 96367

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

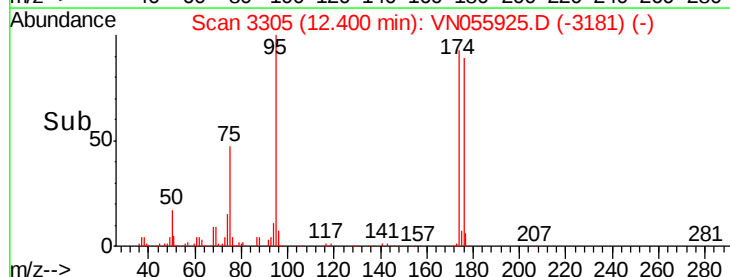
60000

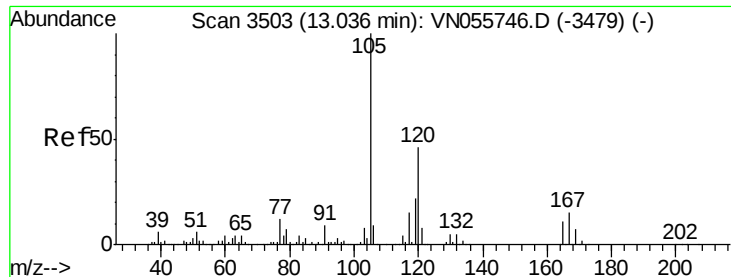
40000

20000

0

Time-->

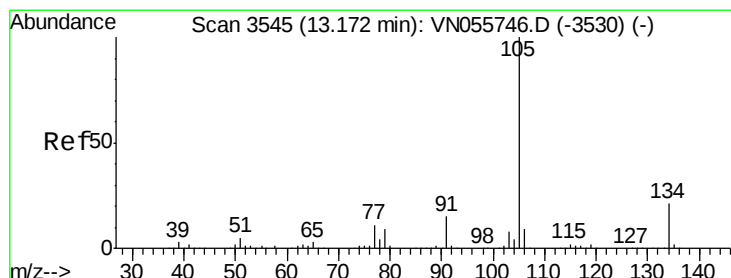
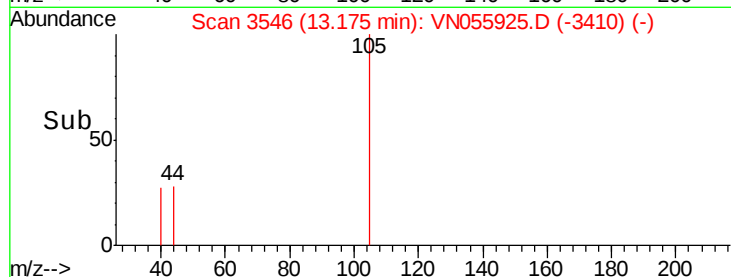
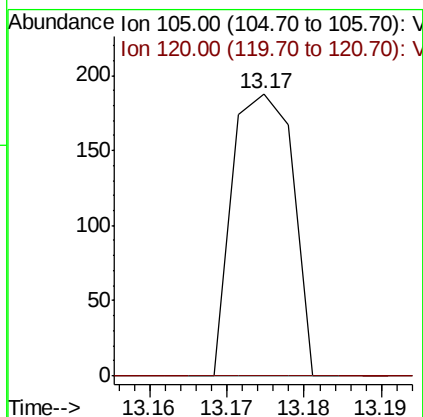
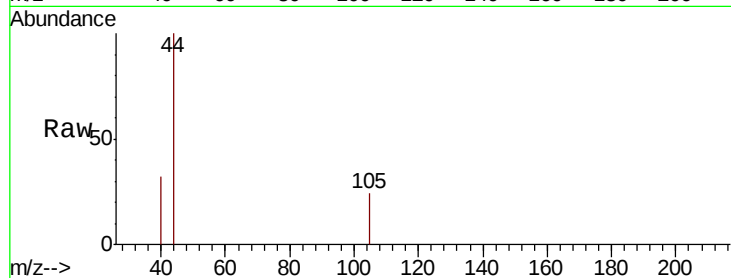




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.14 min
 Lab File: VN055925.D
 Acq: 31 May 2019 17:39

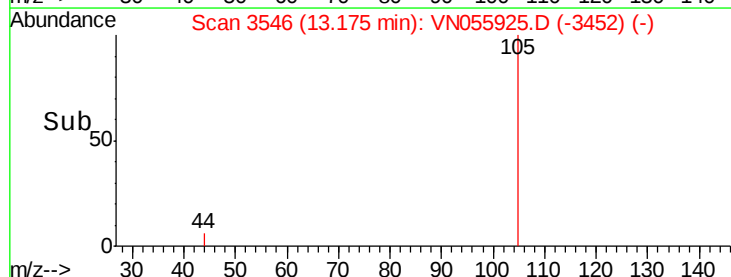
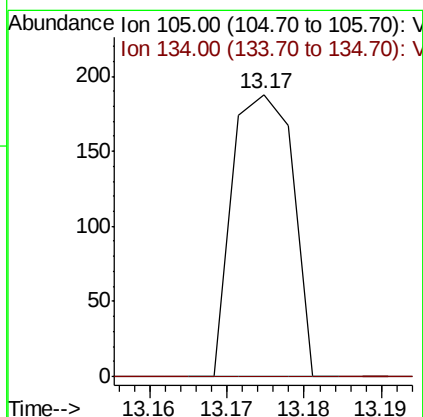
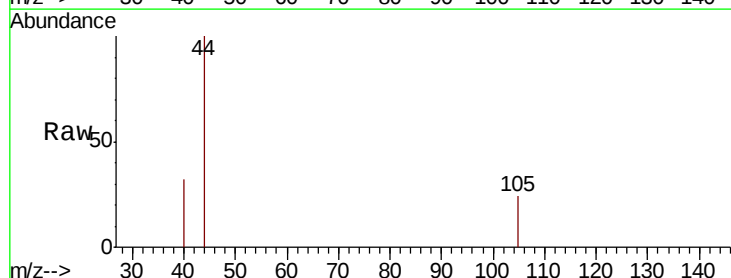
Instrument :
 MSVOA_N
 ClientSampleId :
 LF012MW033-190529

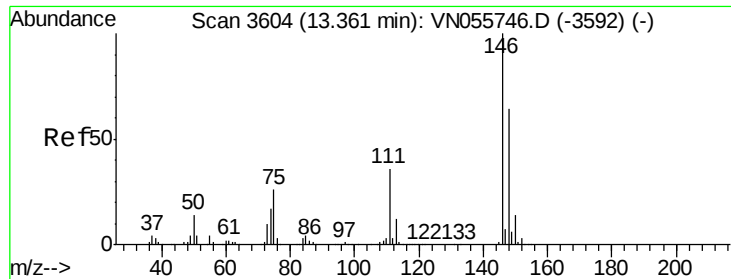
Tot Ion:105 Resp: 102
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.0 69.0#



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN055925.D
 Acq: 31 May 2019 17:39

Tgt Ion:105 Resp: 102
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#

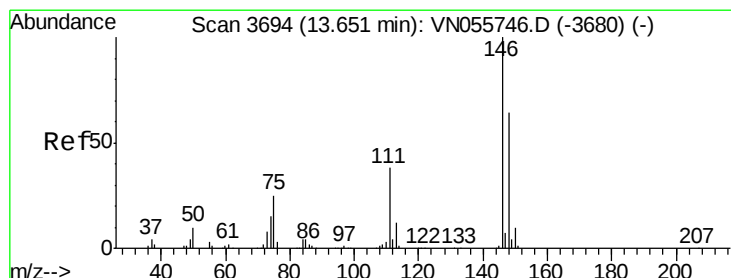
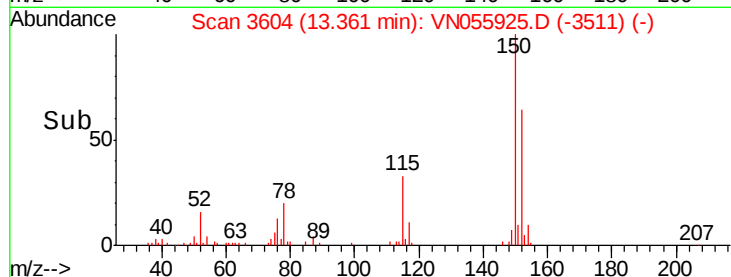
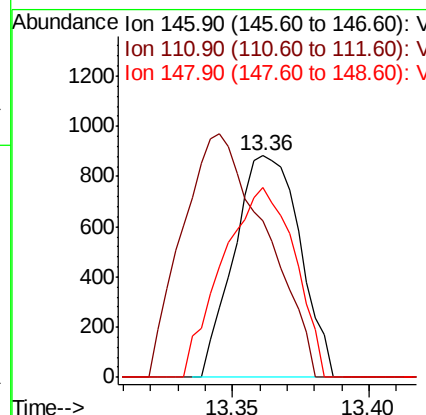
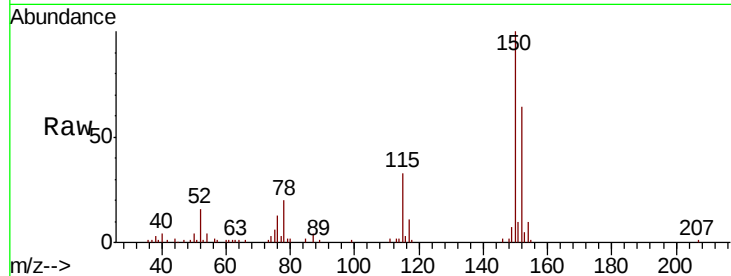




#88
 1,4-Dichlorobenzene
 Concen: 0.304 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055925.D
 Acq: 31 May 2019 17:39

Instrument :
 MSVOA_N
 ClientSampleId :
 LF012MW033-190529

Tot Ion:146 Resp: 1476
 Ion Ratio Lower Upper
 146 100
 111 139.2 18.1 54.4#
 148 94.0 32.1 96.5



#91
 1,2-Dichlorobenzene
 Concen: 1.076 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055925.D
 Acq: 31 May 2019 17:39

Tgt Ion:146 Resp: 5480
 Ion Ratio Lower Upper
 146 100
 111 39.2 19.1 57.5
 148 64.6 31.9 95.9

