

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058302.D
 Acq On : 23 Sep 2019 18:50
 Operator : JC/SP
 Sample : K4975-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:35:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	479537	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	784735	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	668884	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	252890	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	360839	54.03	ug/l	0.00
Spiked Amount			Recovery	=	108.06%	
35) Dibromofluoromethane	7.58	113	249714	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	
50) Toluene-d8	10.09	98	995290	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
62) 4-Bromofluorobenzene	12.41	95	310552	44.98	ug/l	0.00
Spiked Amount			Recovery	=	89.96%	

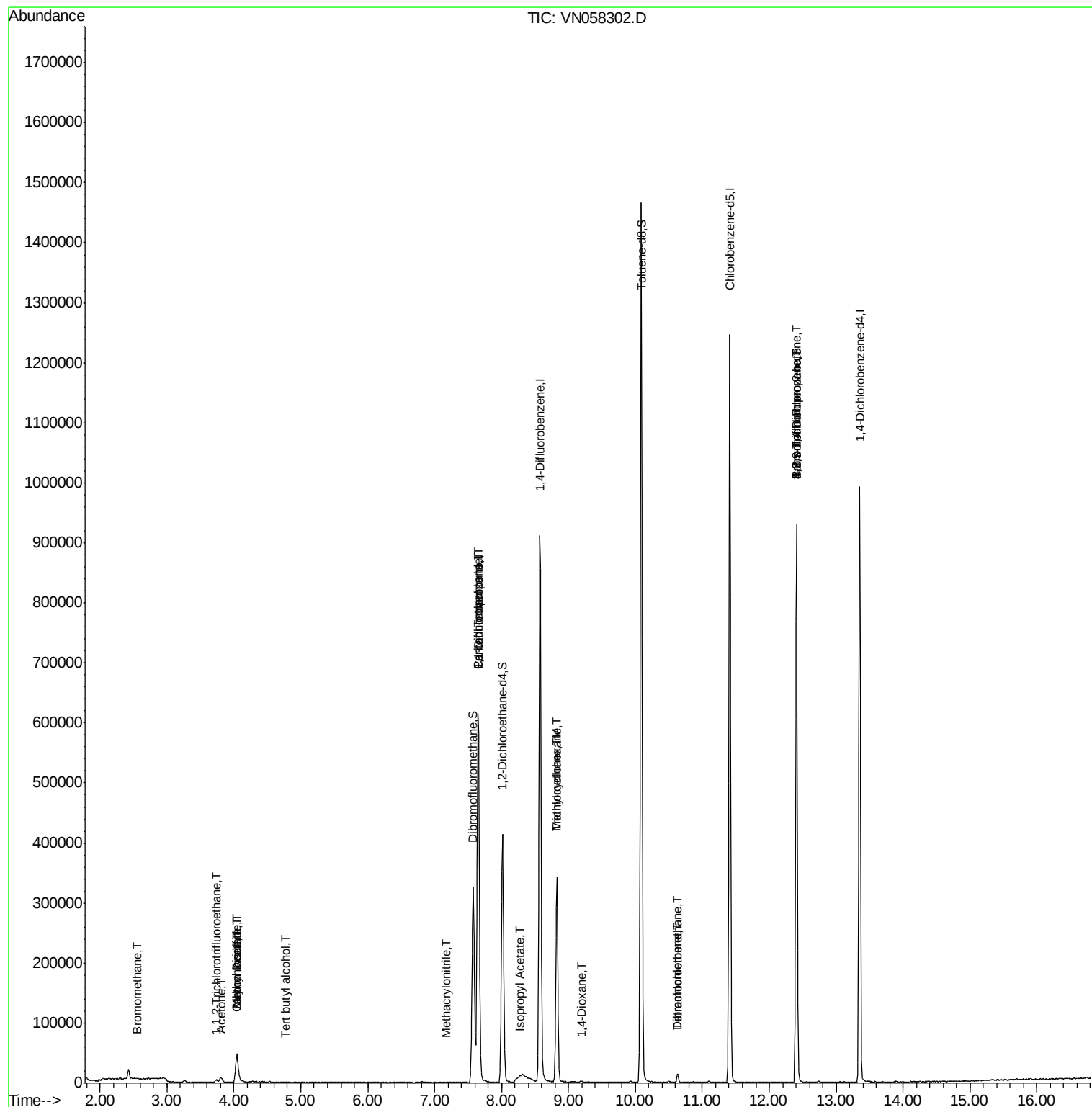
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1587	Below Cal		90
4) Vinyl Chloride	2.17	62	30	Below Cal	#	43
5) Bromomethane	2.55	94	167	0.816	ug/l #	4
6) Chloroethane	2.69	64	67	Below Cal	#	44
9) 1,1,2-Trichlorotrifluoroet	3.74	101	2410	0.622	ug/l #	84
11) Tert butyl alcohol	4.76	59	177	0.223	ug/l #	71
12) 1,1-Dichloroethene	3.71	96	153	Below Cal	#	18
14) Allyl chloride	4.04	41	7843	1.236	ug/l #	79
16) Acetone	3.81	43	14605	6.442	ug/l	93
17) Carbon Disulfide	4.03	76	68	0.287	ug/l #	74
18) Methyl Acetate	4.04	43	20795	3.486	ug/l #	53
20) Methylene Chloride	4.53	84	397	Below Cal	#	32
31) Cyclohexane	7.65	56	12099	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	43544	7.695	ug/l #	46
38) Carbon Tetrachloride	7.65	117	50124	8.811	ug/l #	14
39) Methylcyclohexane	8.82	83	1637	0.370	ug/l #	1
41) Methacrylonitrile	7.17	41	75	0.936	ug/l #	100
43) Isopropyl Acetate	8.27	43	12779	1.165	ug/l #	57
44) Trichloroethene	8.82	130	119240	28.190	ug/l	98
49) 1,4-Dioxane	9.20	88	262	3.204	ug/l #	32
60) Dibromochloromethane	10.63	129	2725	0.589	ug/l #	11
64) Tetrachloroethene	10.63	164	3072	0.942	ug/l #	90
71) Bromoform	12.41	173	311	3.686	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	168813	37.299	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	168813	103.959	ug/l #	5

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

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

Instrument :

MSVOA_N

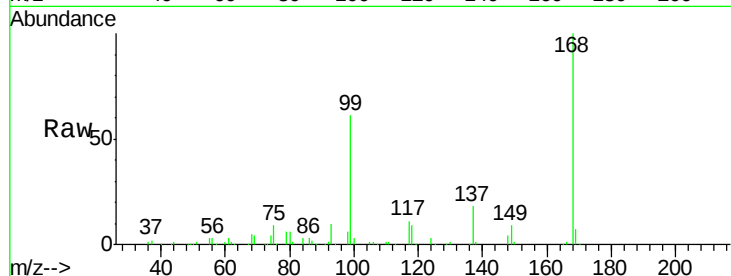
ClientSampled :

Tot Ion:168 Resp: 479537

Ion Ratio Lower Upper

168 100

99 60.5 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

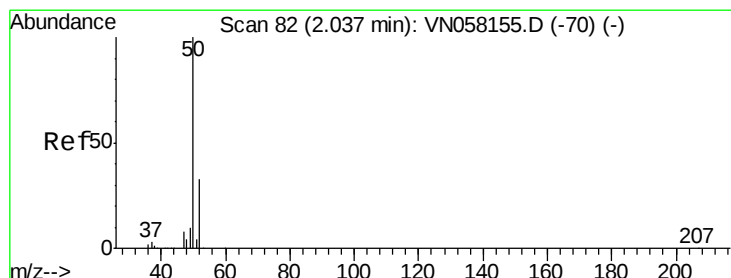
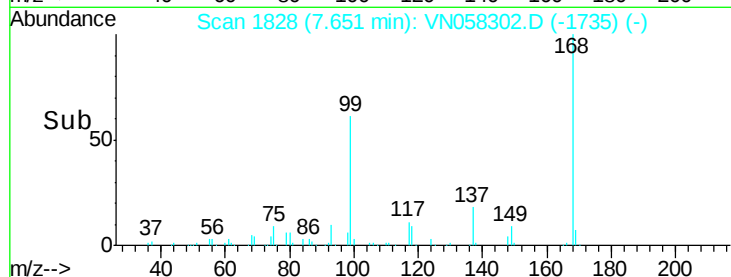
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058302.D

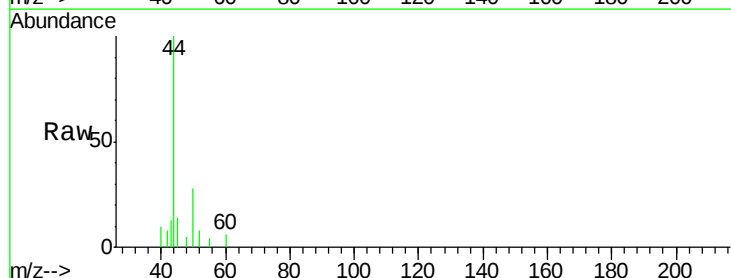
Acq: 23 Sep 2019 18:50

Tgt Ion: 50 Resp: 1587

Ion Ratio Lower Upper

50 100

52 27.3 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1200

1000

800

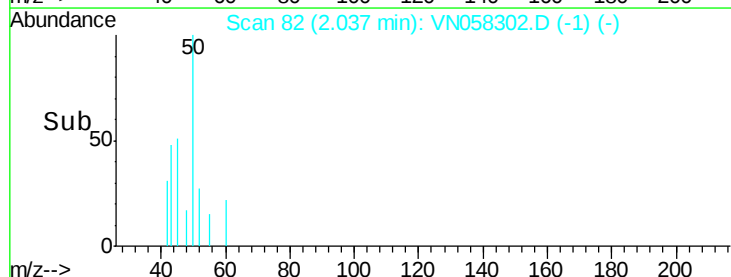
600

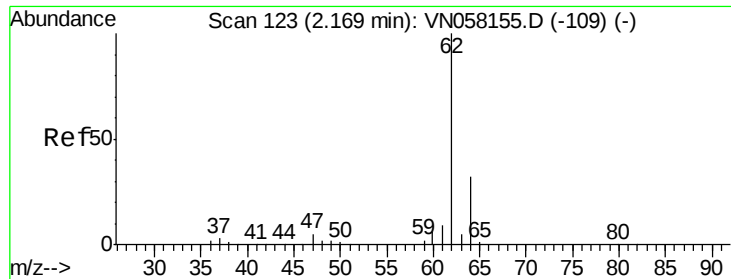
400

200

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

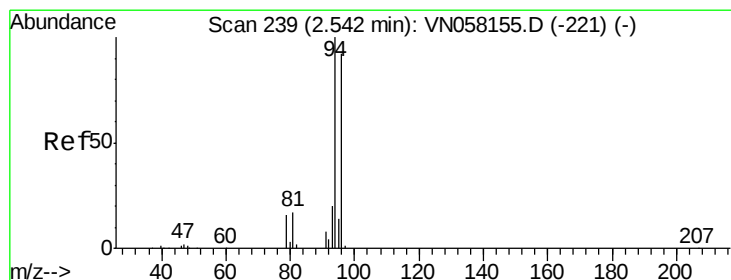
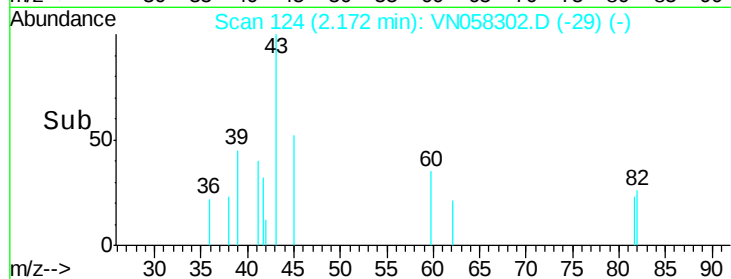
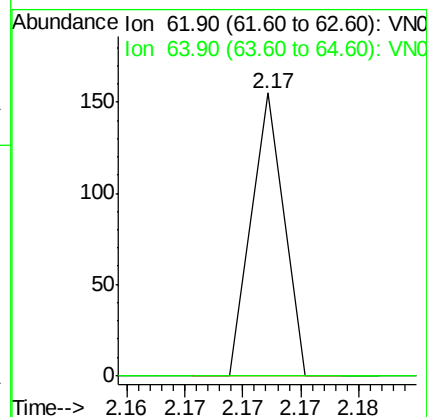
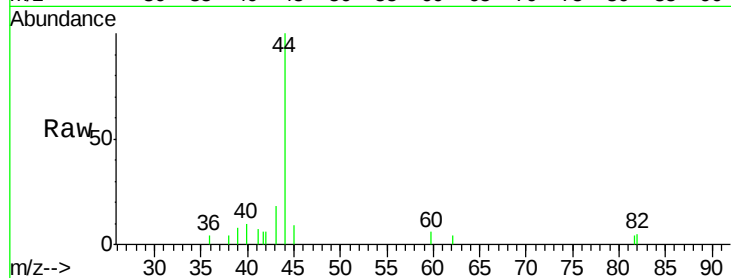
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 62 Resp: 30

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



#5

Bromomethane

Concen: 0.816 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058302.D

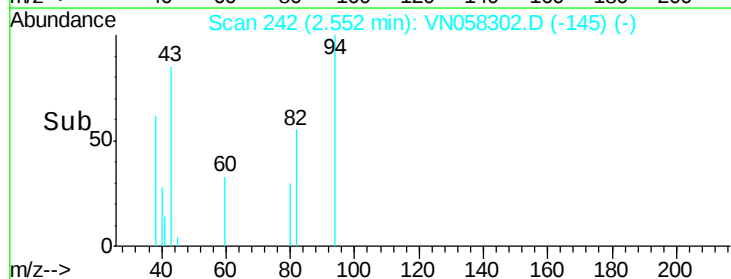
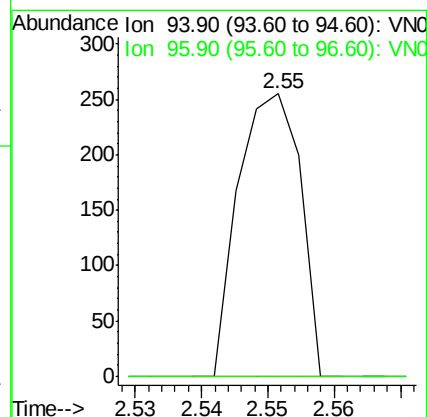
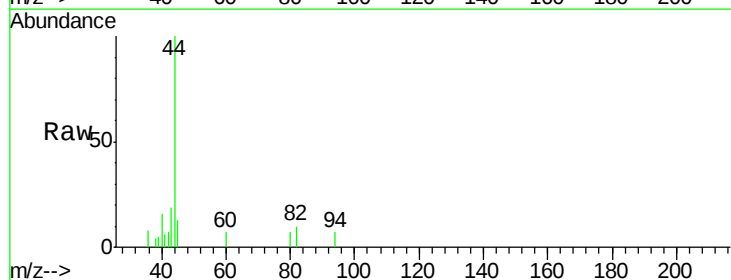
Acq: 23 Sep 2019 18:50

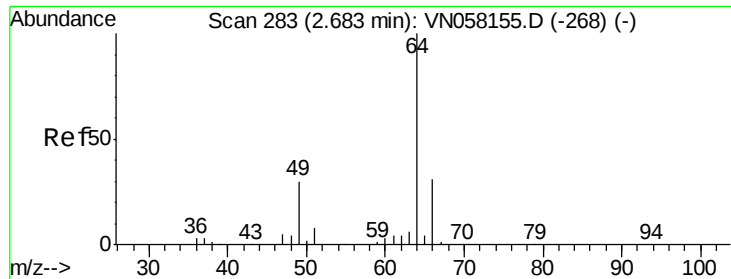
Tgt Ion: 94 Resp: 167

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 286

Delta R.T. 0.01 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

Instrument :

MSVOA_N

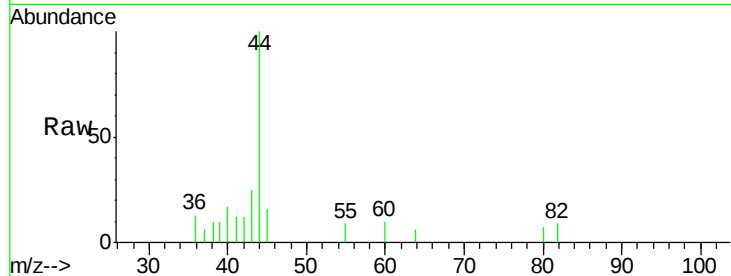
ClientSampled :

Tot Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.69

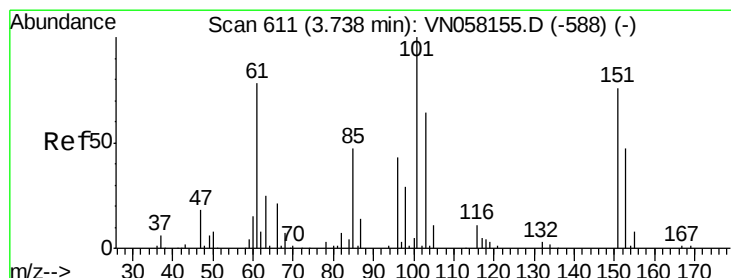
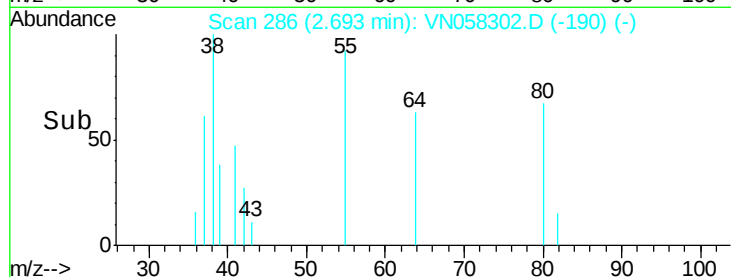
150

100

50

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.622 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

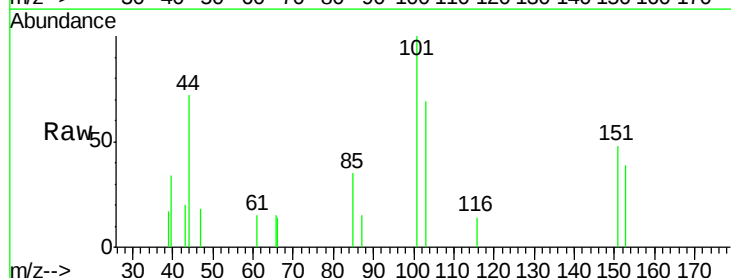
Tgt Ion: 101 Resp: 2410

Ion Ratio Lower Upper

101 100

85 44.7 37.3 55.9

151 53.4 59.6 89.4#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V

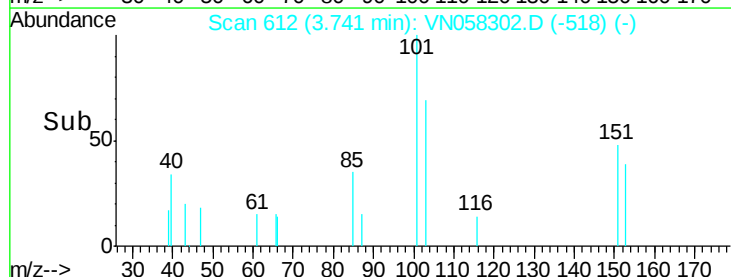
3.74

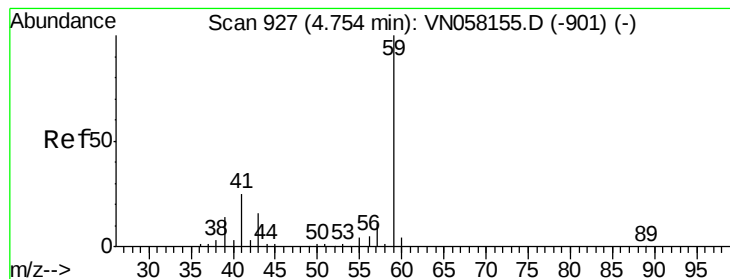
1000

500

0

Time-->



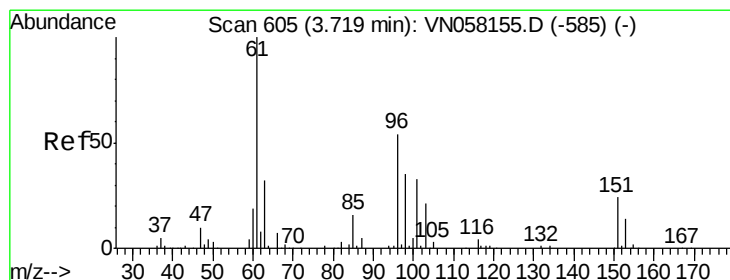
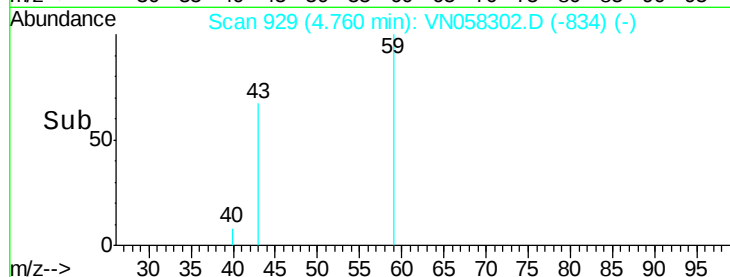
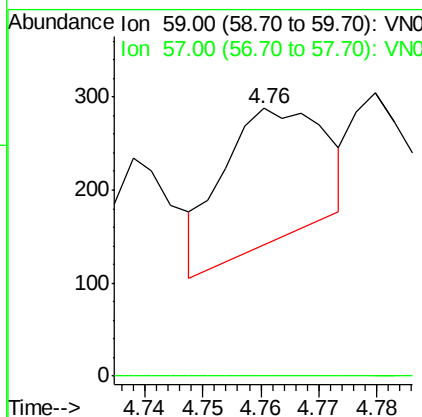
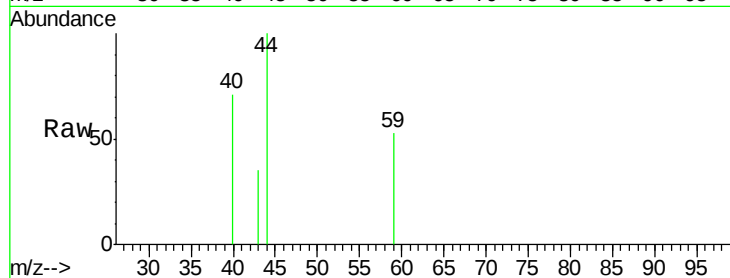


#11

Tert butyl alcohol
 Concen: 0.223 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: VN058302.D
 Acq: 23 Sep 2019 18:50

Instrument :
 MSVOA_N
 ClientSampled :

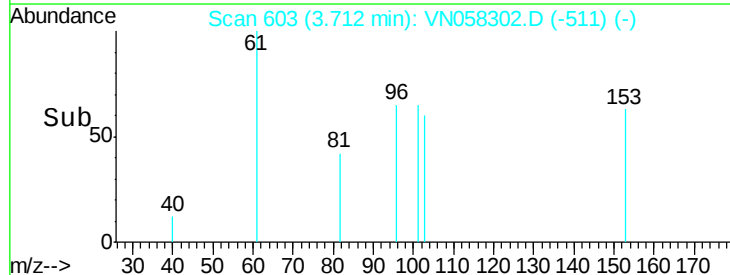
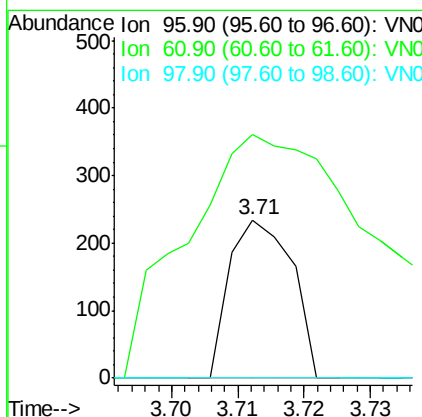
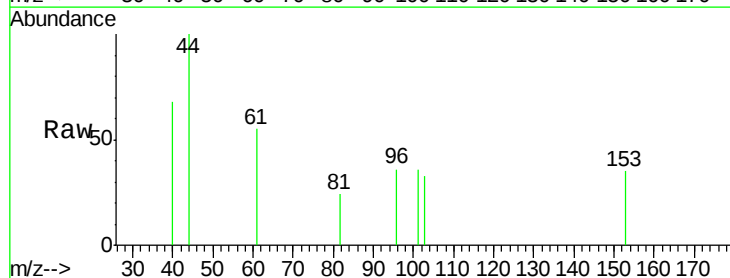
Tot Ion: 59 Resp: 177
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 13.0#

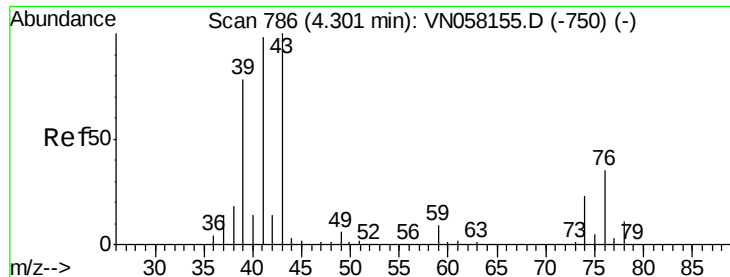


#12

1,1-Dichloroethene
 Concen: Below Cal
 RT: 3.71 min Scan# 603
 Delta R.T. -0.01 min
 Lab File: VN058302.D
 Acq: 23 Sep 2019 18:50

Tgt Ion: 96 Resp: 153
 Ion Ratio Lower Upper
 96 100
 61 68.8 149.5 224.3#
 98 0.0 52.4 78.6#

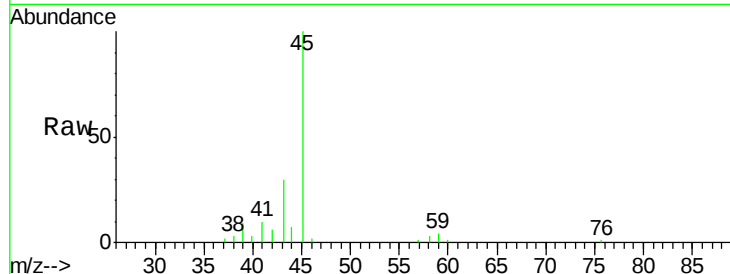




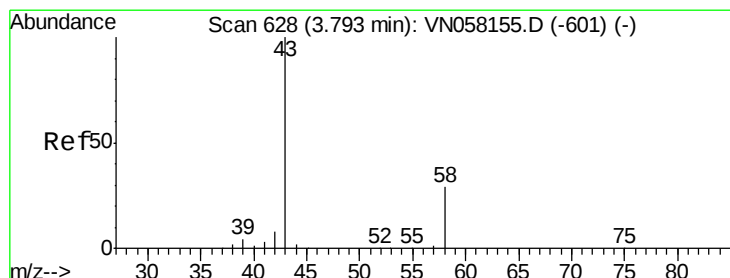
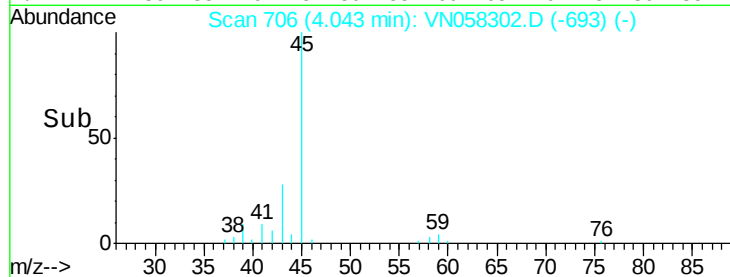
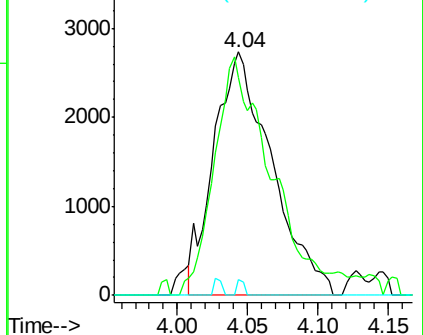
#14
Allvl chloride
Concen: 1.236 ug/l
RT: 4.04 min Scan# 706
Delta R.T. -0.26 min
Lab File: VN058302.D
Acq: 23 Sep 2019 18:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 7843
Ion Ratio Lower Upper
41 100
39 79.3 59.1 88.7
76 0.8 25.1 37.7#

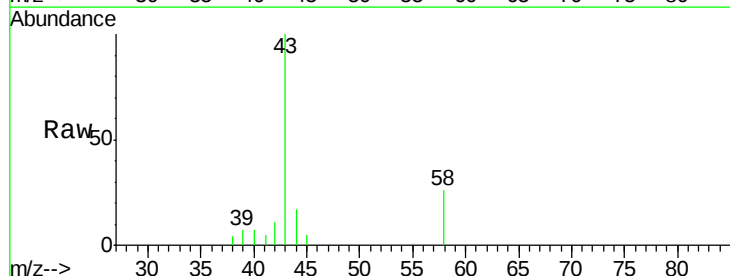


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 75.90 (75.60 to 76.60): VNC

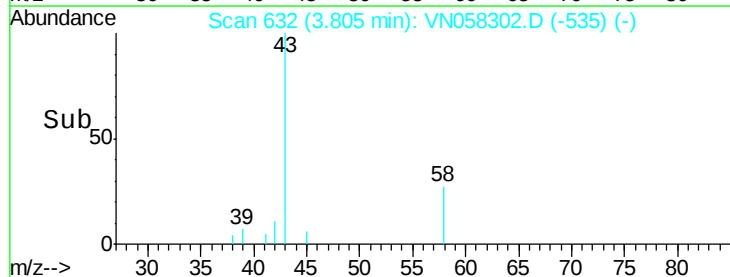
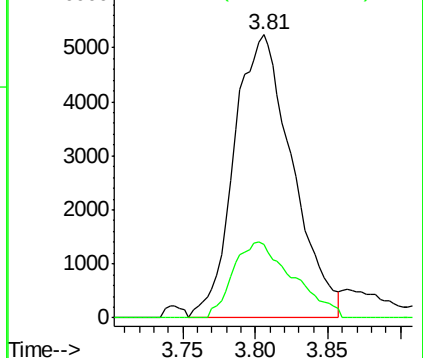


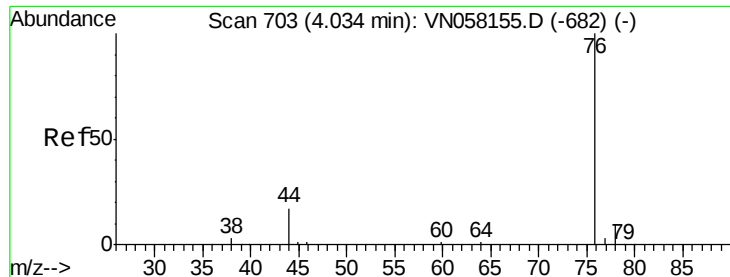
#16
Acetone
Concen: 6.442 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.01 min
Lab File: VN058302.D
Acq: 23 Sep 2019 18:50

Tgt Ion: 43 Resp: 14605
Ion Ratio Lower Upper
43 100
58 25.8 23.4 35.2



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





#17

Carbon Disulfide

Concen: 0.287 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.01 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

Instrument :

MSVOA_N

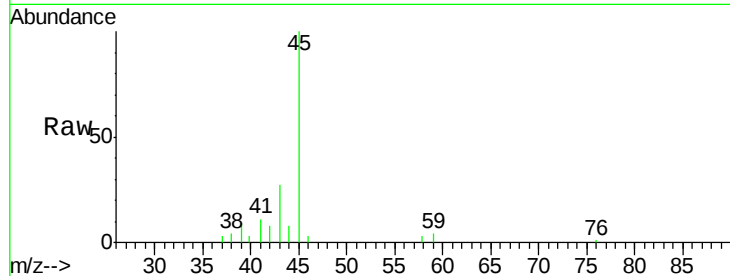
ClientSampled :

Tot Ion: 76 Resp: 68

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

4.03

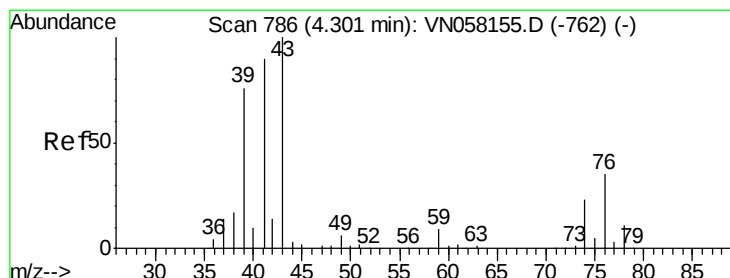
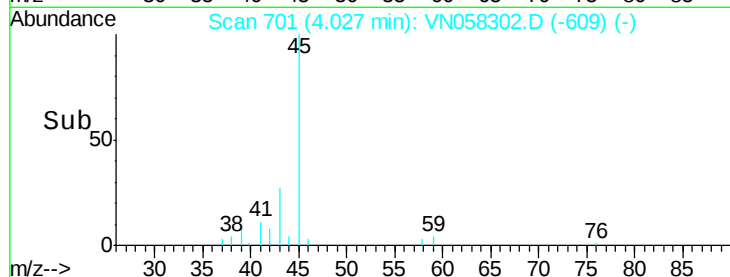
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 3.486 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.26 min

Lab File: VN058302.D

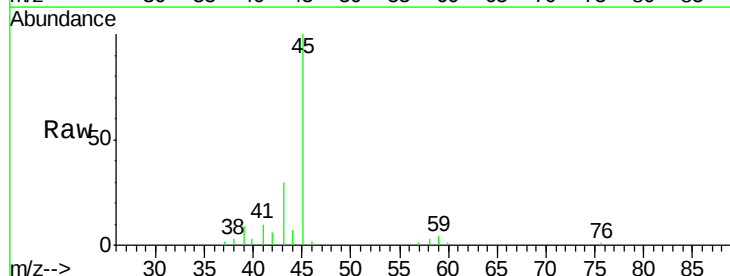
Acq: 23 Sep 2019 18:50

Tgt Ion: 43 Resp: 20795

Ion Ratio Lower Upper

43 100

74 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC

4.04

8000

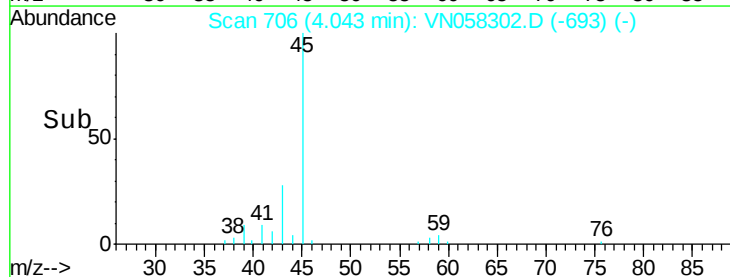
6000

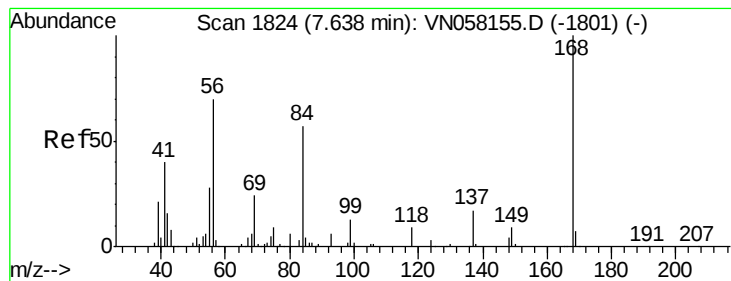
4000

2000

0

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

Instrument :
MSVOA_N
ClientSampleId :

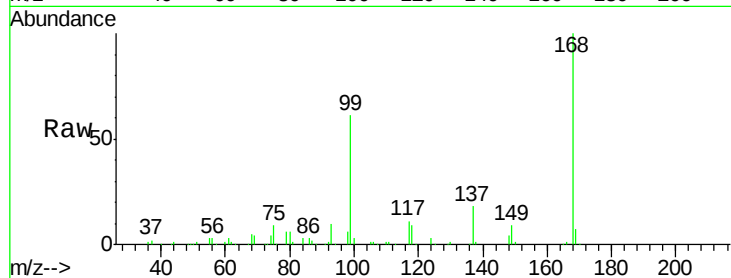
Tot Ion: 56 Resp: 12099

Ion Ratio Lower Upper

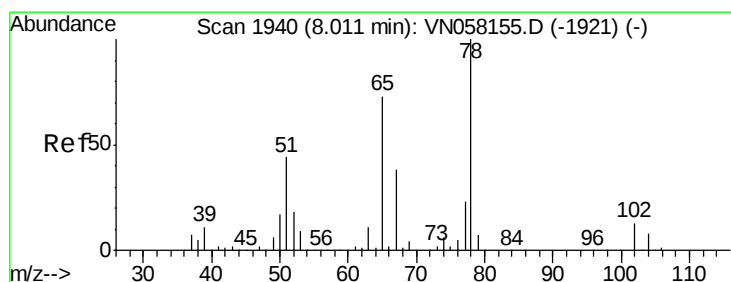
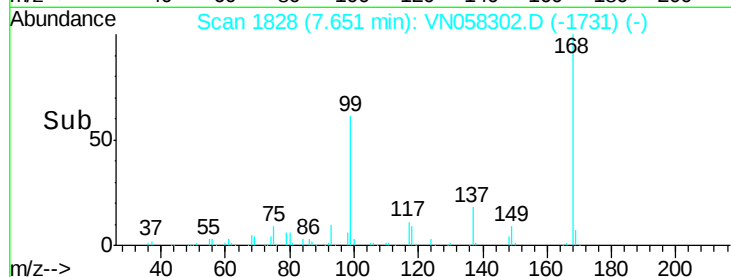
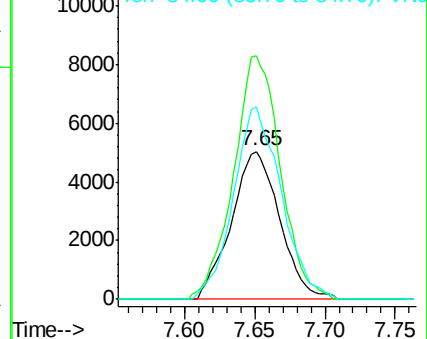
56 100

69 164.6 27.3 40.9#

84 130.3 65.0 97.4#



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



#33

1,2-Dichloroethane-d4

Concen: 54.026 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058302.D

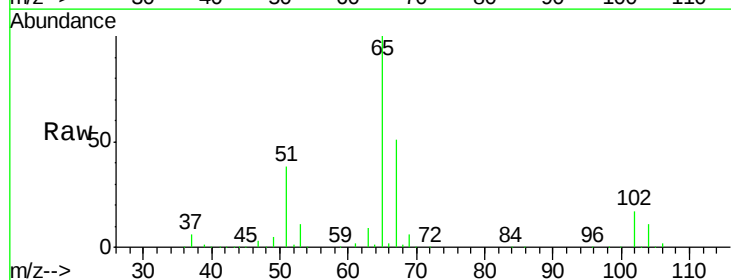
Acq: 23 Sep 2019 18:50

Tgt Ion: 65 Resp: 360839

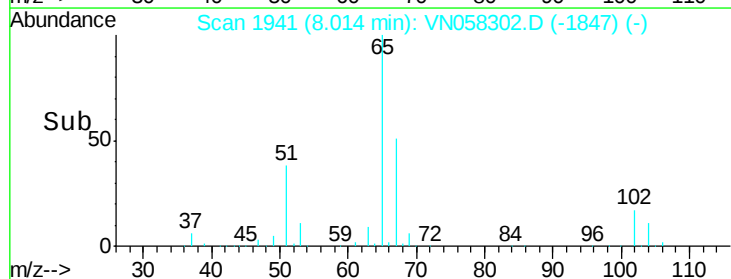
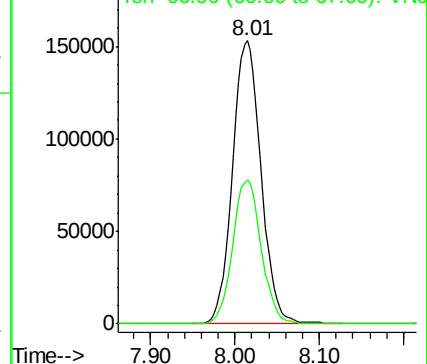
Ion Ratio Lower Upper

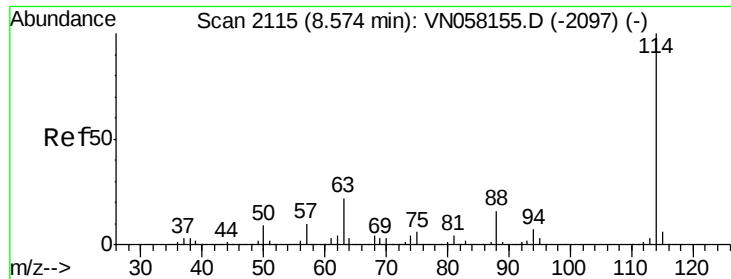
65 100

67 50.6 0.0 103.4



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

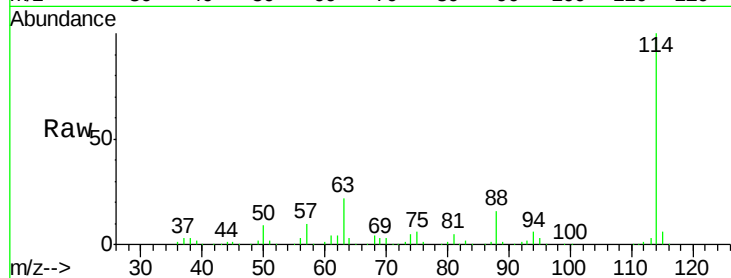




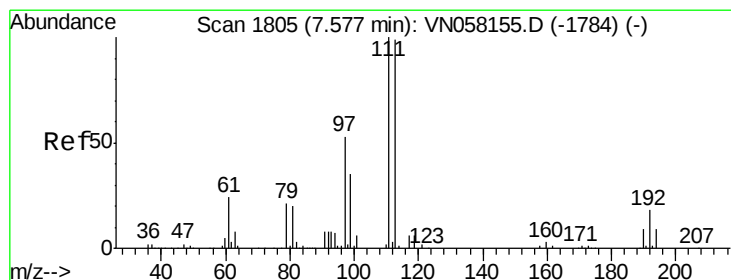
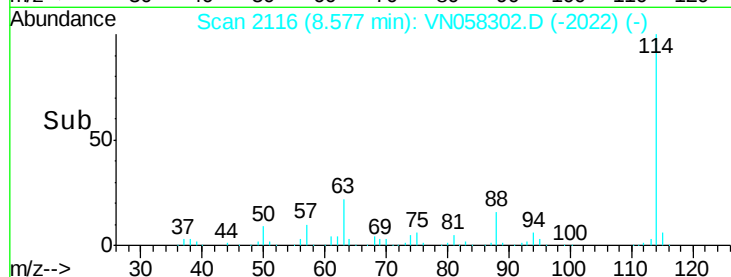
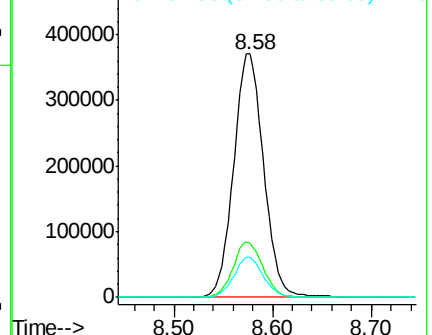
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058302.D
 Acq: 23 Sep 2019 18:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	44.2
88	16.4	0.0	31.6

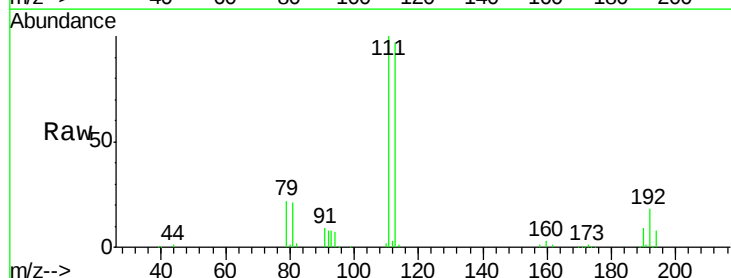


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

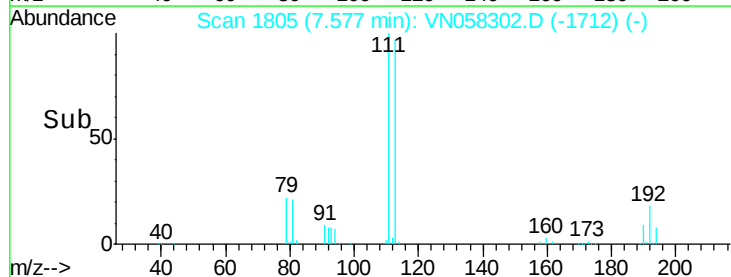
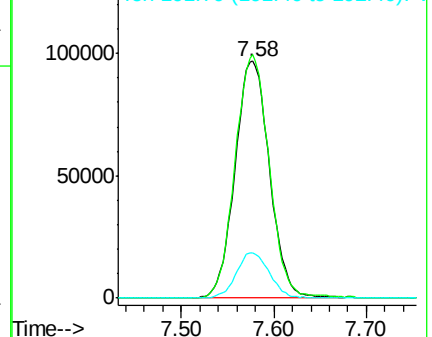


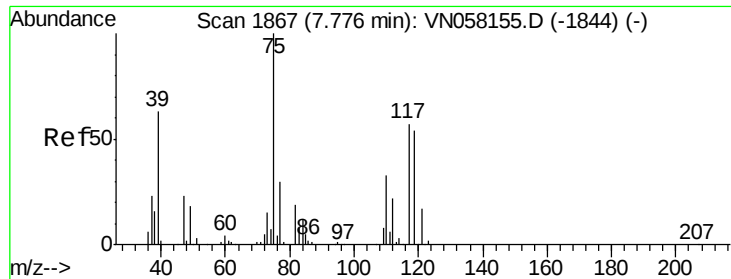
#35
 Dibromofluoromethane
 Concen: 52.345 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058302.D
 Acq: 23 Sep 2019 18:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.8	122.6
192	18.4	14.5	21.7



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

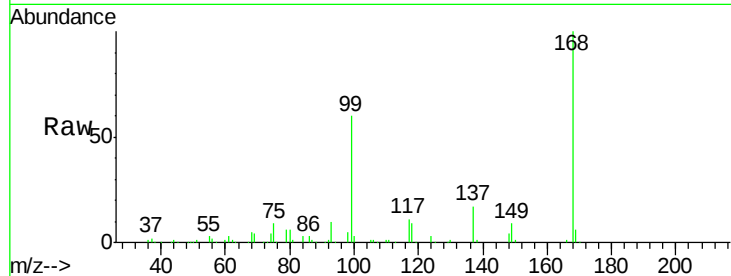




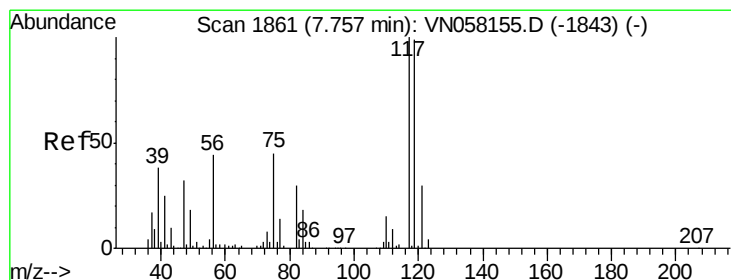
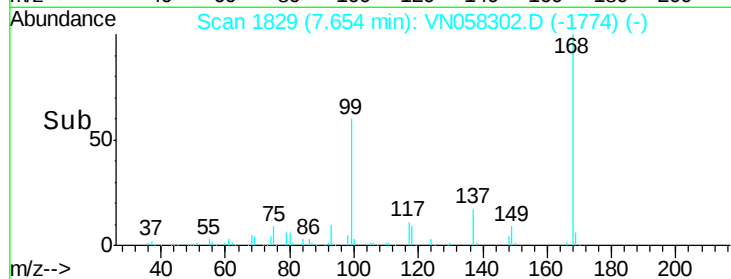
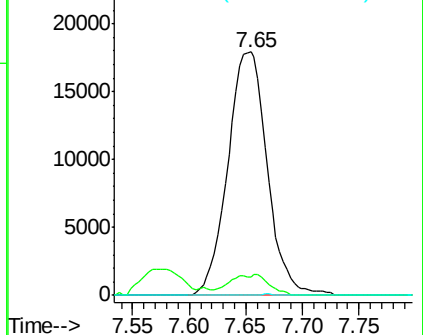
#36
 1,1-Dichloropropene
 Concen: 7.695 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058302.D
 Acq: 23 Sep 2019 18:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	43544
Ion Ratio	100	Lower	Upper
75	100		
110	3.1	16.6	49.7#
77	0.0	24.3	36.5#

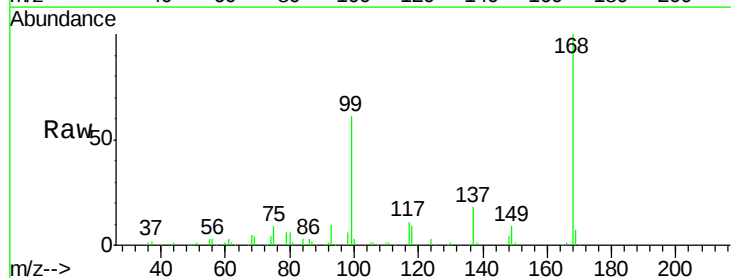


Abundance Ion 74.90 (74.60 to 75.60): VN058155.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN058155.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN058155.D (-1844) (-)

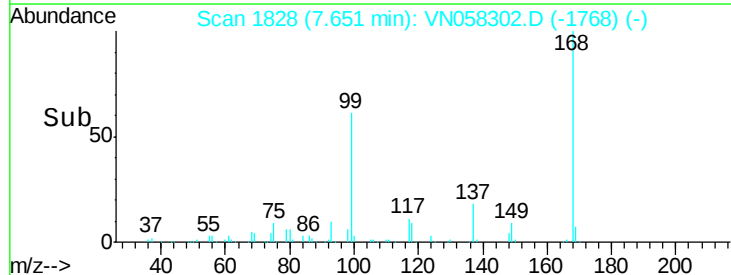
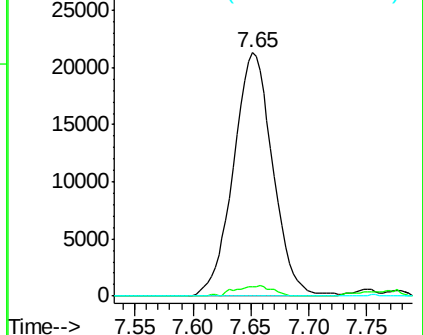


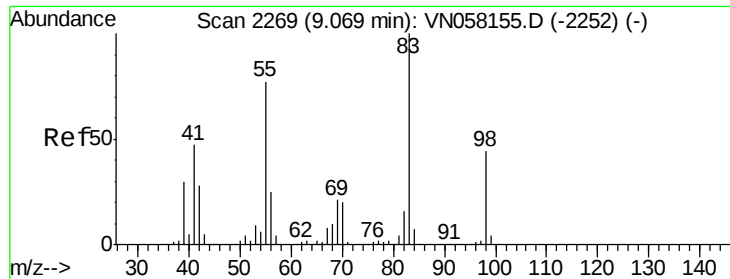
#38
 Carbon Tetrachloride
 Concen: 8.811 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058302.D
 Acq: 23 Sep 2019 18:50

Tgt Ion	117	Resp	50124
Ion Ratio	100	Lower	Upper
117	100		
119	3.8	78.6	117.8#
121	0.0	24.1	36.1#



Abundance Ion 116.80 (116.50 to 117.50): VN058155.D (-1843) (-)
 Ion 118.80 (118.50 to 119.50): VN058155.D (-1843) (-)
 Ion 120.80 (120.50 to 121.50): VN058155.D (-1843) (-)

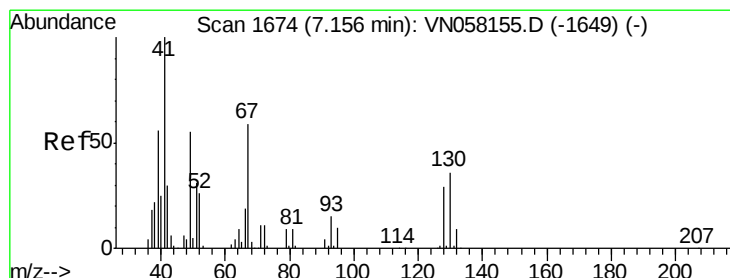
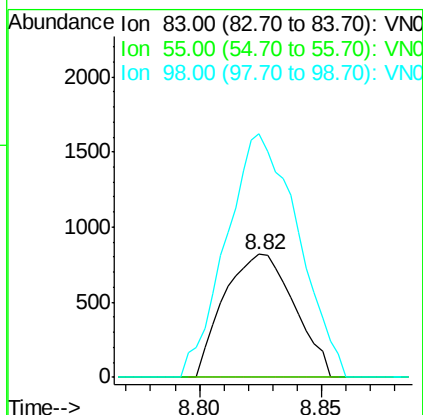
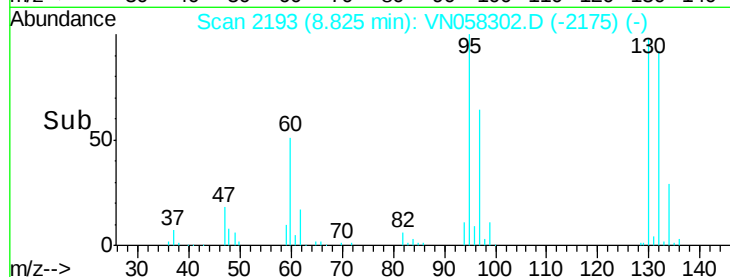
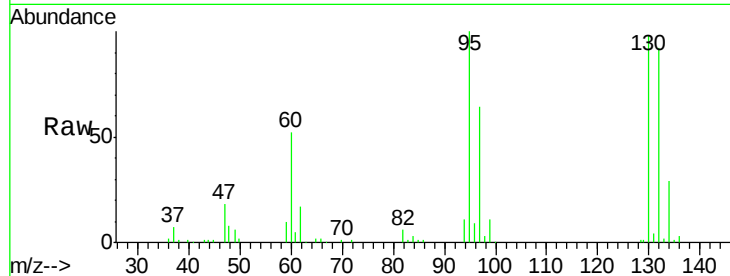




#39
Methvlcvclohexane
Concen: 0.370 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.24 min
Lab File: VN058302.D
Acq: 23 Sep 2019 18:50

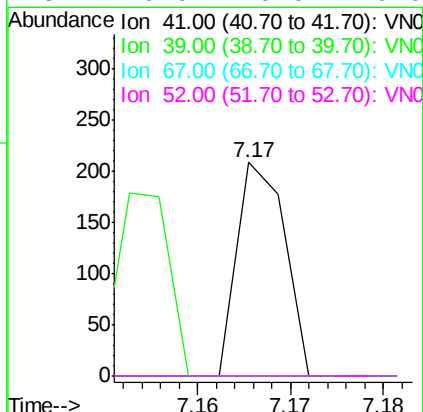
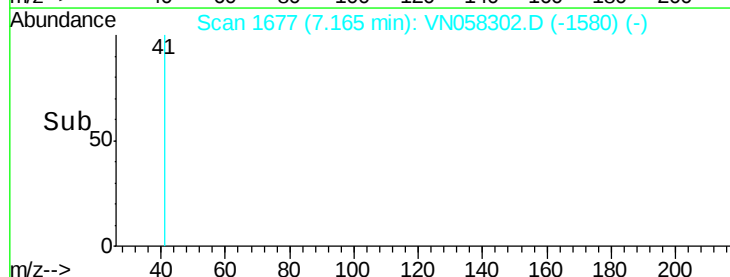
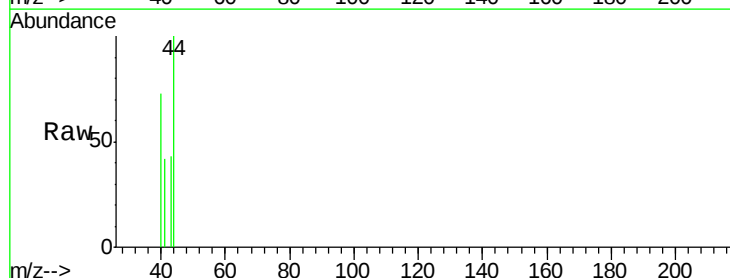
Instrument :
MSVOA_N
ClientSampled :

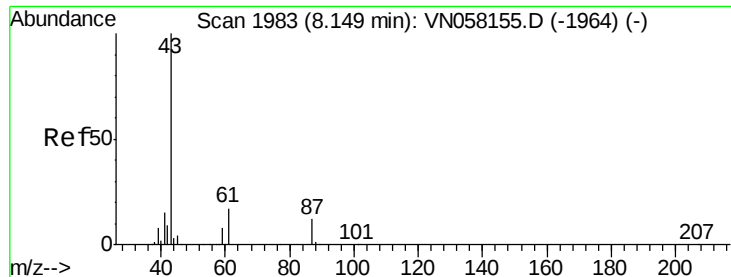
Tot Ion: 83 Resp: 1637
Ion Ratio Lower Upper
83 100
55 0.0 61.9 92.9#
98 178.4 35.4 53.2#



#41
Methacrylonitrile
Concen: 0.936 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.01 min
Lab File: VN058302.D
Acq: 23 Sep 2019 18:50

Tgt Ion: 41 Resp: 75
Ion Ratio Lower Upper
41 100
39 90.7 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 1.165 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. 0.12 min

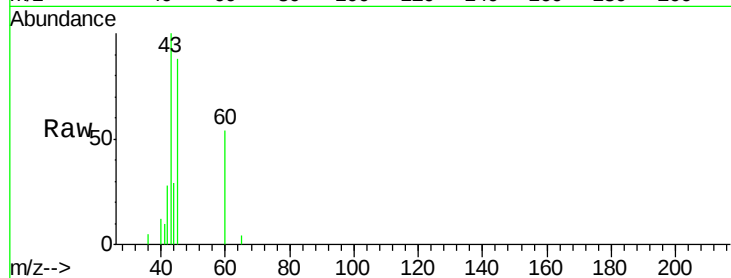
Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

Instrument :

MSVOA_N

ClientSampled :



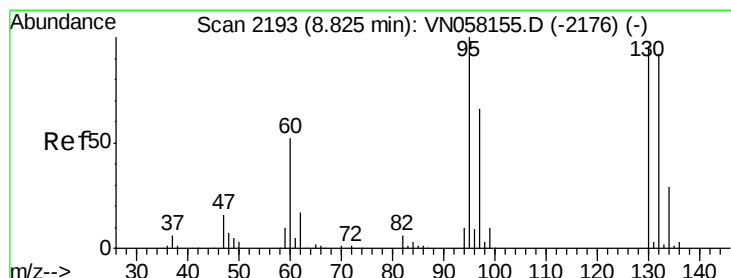
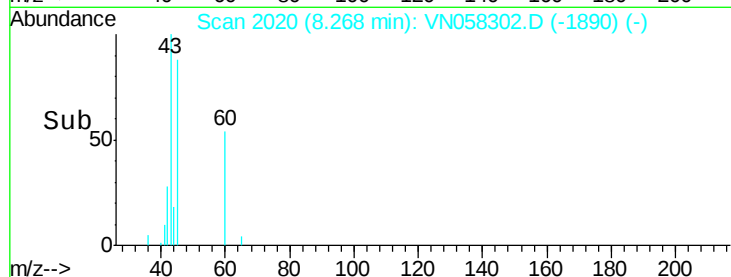
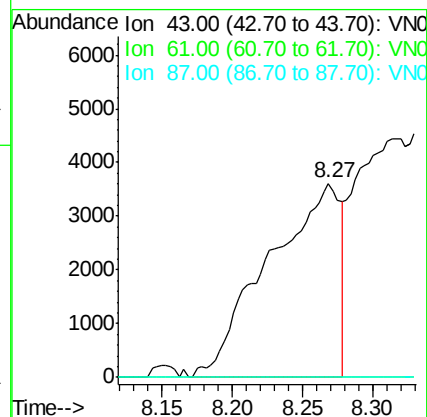
Tot Ion: 43 Resp: 12779

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#44

Trichloroethene

Concen: 28.190 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058302.D

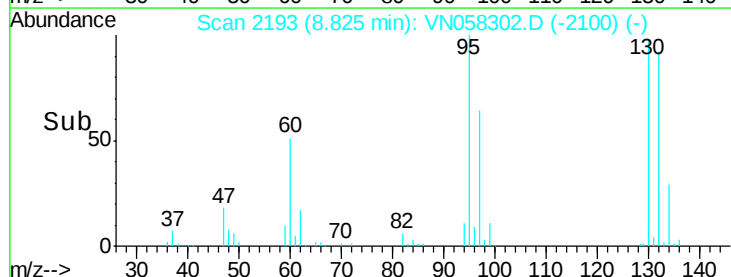
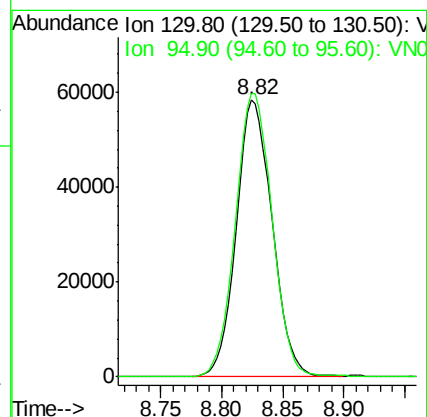
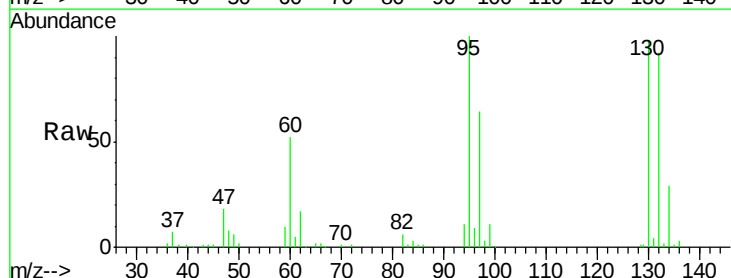
Acq: 23 Sep 2019 18:50

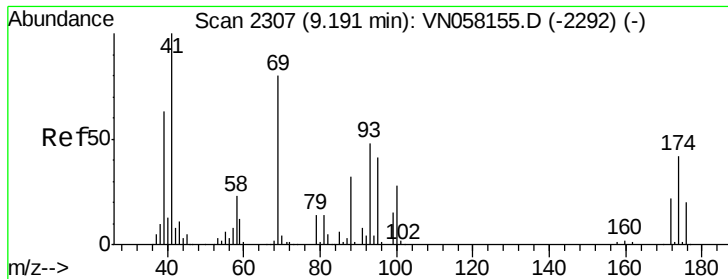
Tgt Ion: 130 Resp: 119240

Ion Ratio Lower Upper

130 100

95 101.7 0.0 207.8





#49

1,4-Dioxane

Concen: 3.204 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.01 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

Instrument :
MSVOA_N
ClientSampleId :

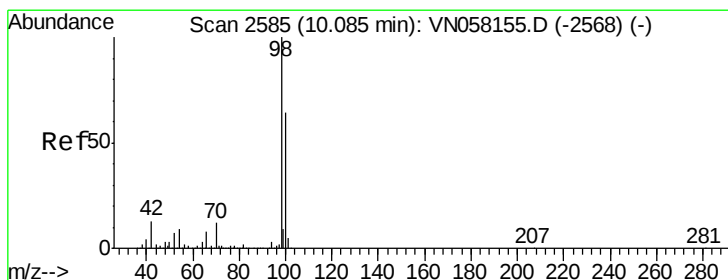
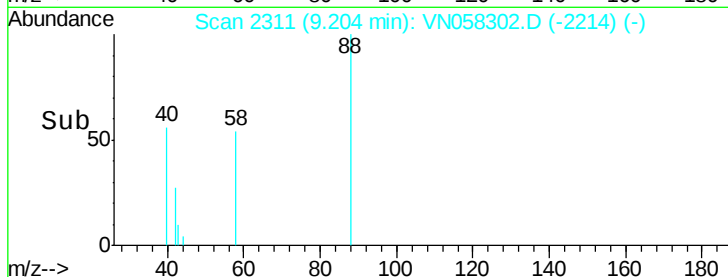
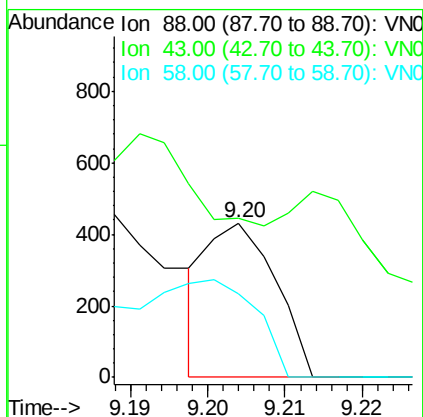
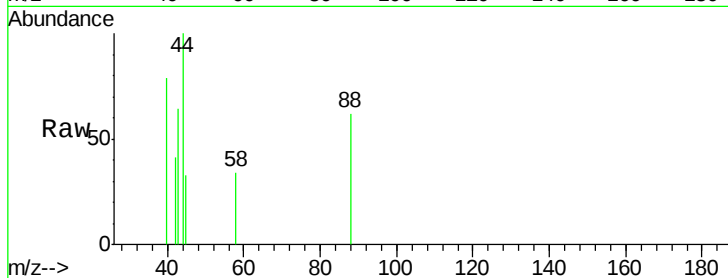
Tot Ion: 88 Resp: 262

Ion Ratio Lower Upper

88 100

43 126.3 27.8 41.8#

58 86.6 55.0 82.4#



#50

Toluene-d8

Concen: 53.548 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058302.D

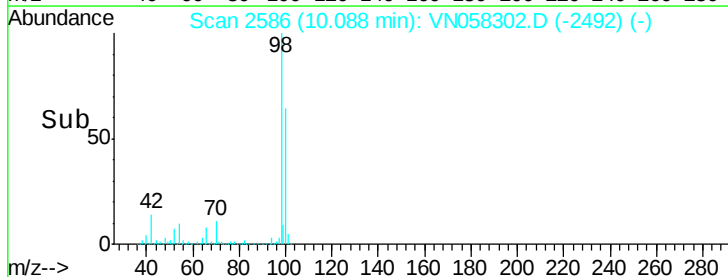
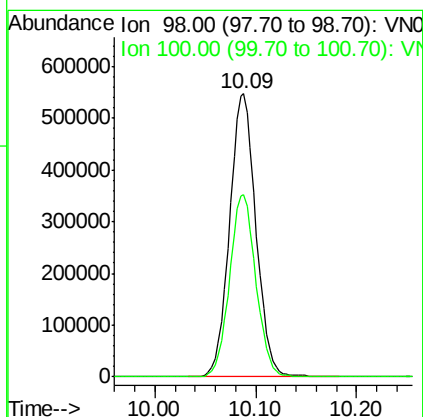
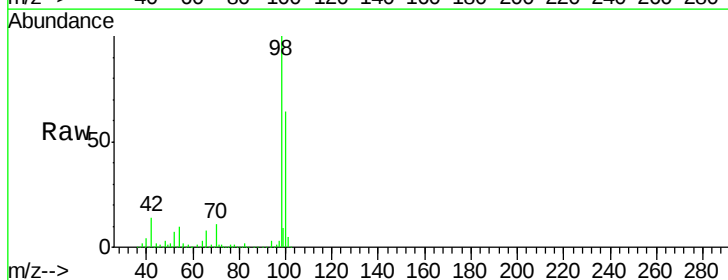
Acq: 23 Sep 2019 18:50

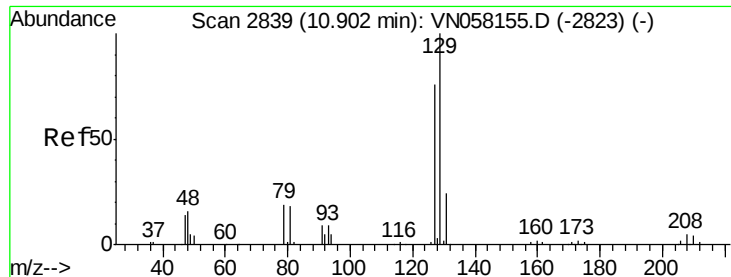
Tgt Ion: 98 Resp: 995290

Ion Ratio Lower Upper

98 100

100 64.3 51.1 76.7

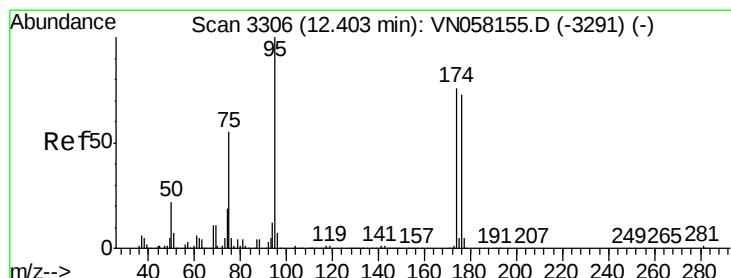
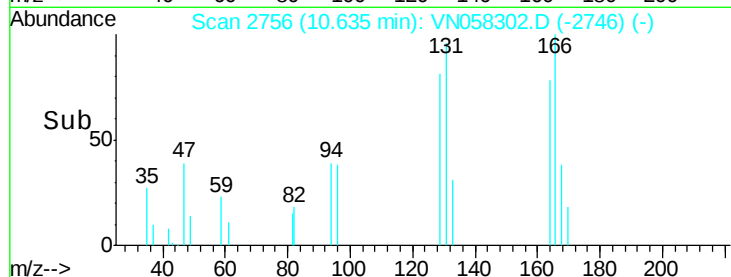
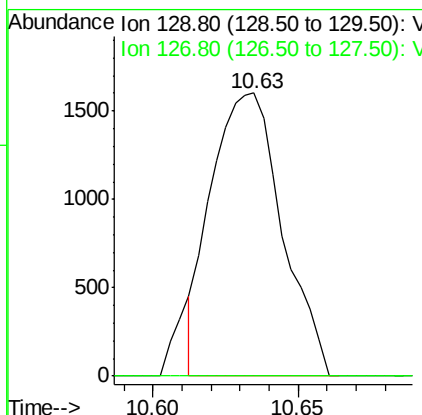
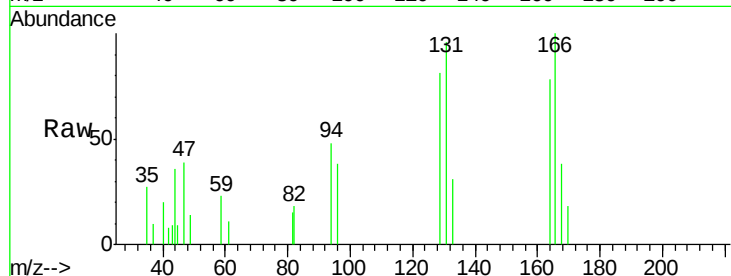




#60
 Dibromochloromethane
 Concen: 0.589 ug/l
 RT: 10.63 min Scan# 2756
 Delta R.T. -0.27 min
 Lab File: VN058302.D
 Acq: 23 Sep 2019 18:50

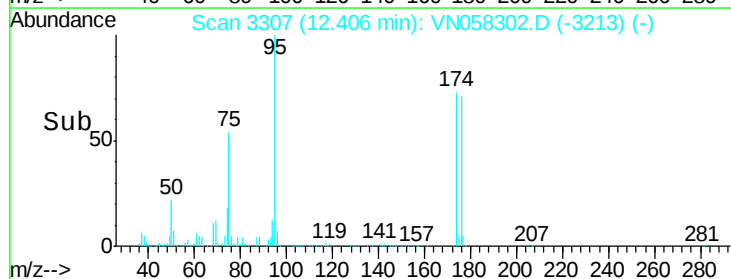
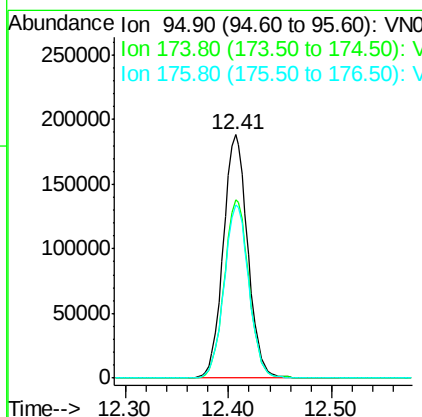
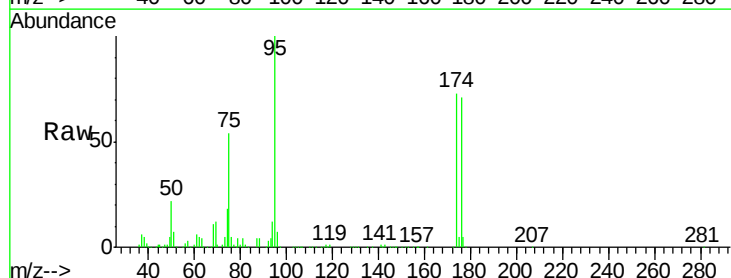
Instrument :
 MSVOA_N
 ClientSampleId :

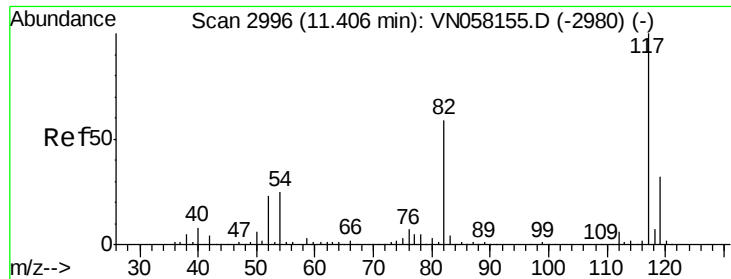
Tot Ion:129 Resp: 2725
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.7 116.1#



#62
 4-Bromofluorobenzene
 Concen: 44.979 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058302.D
 Acq: 23 Sep 2019 18:50

Tgt Ion: 95 Resp: 310552
 Ion Ratio Lower Upper
 95 100
 174 73.9 0.0 152.2
 176 71.8 0.0 148.0

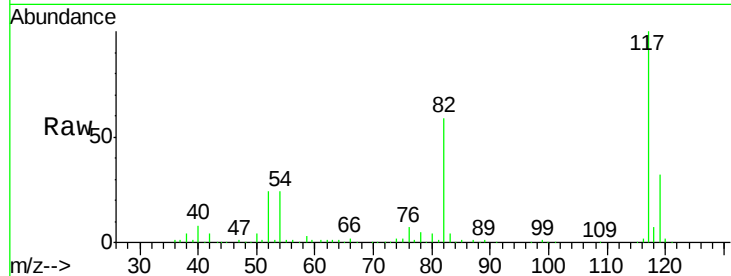




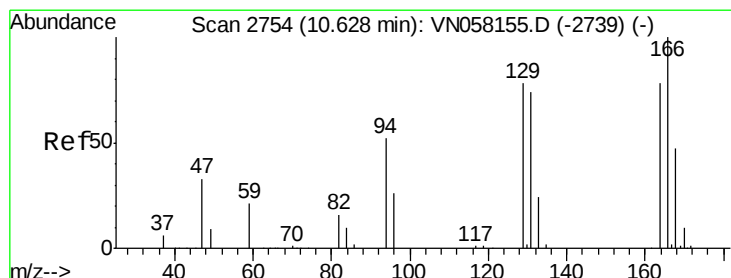
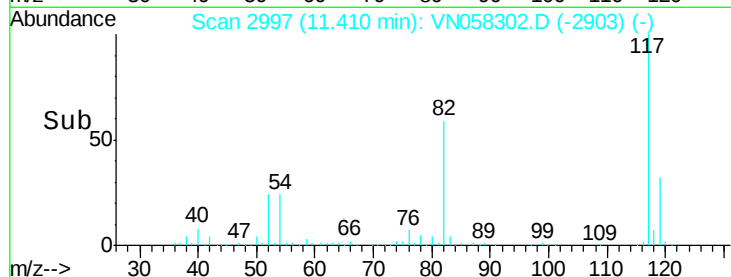
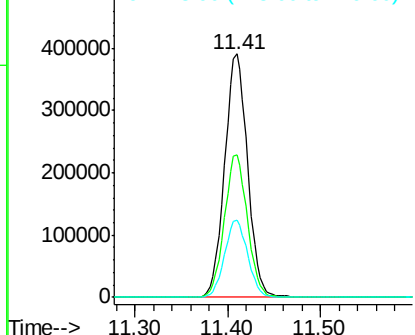
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058302.D
Acq: 23 Sep 2019 18:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 668884
Ion Ratio Lower Upper
117 100
82 58.6 46.9 70.3
119 31.7 25.3 37.9

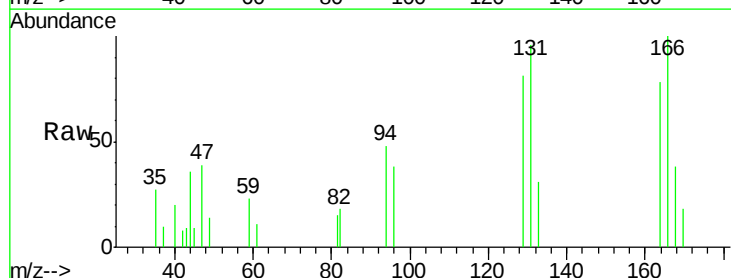


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

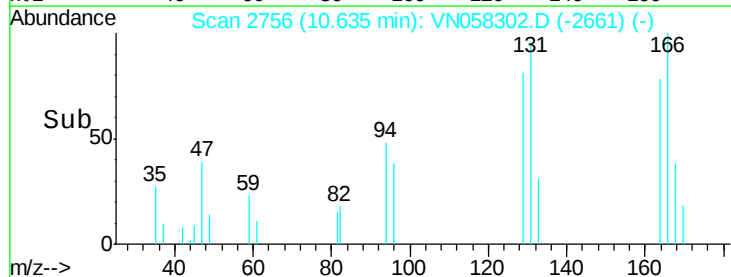
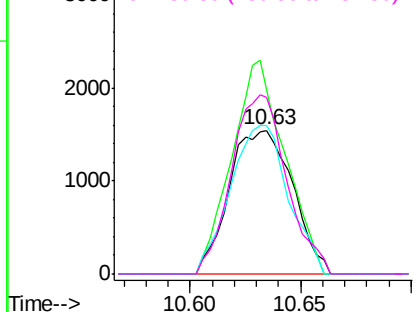


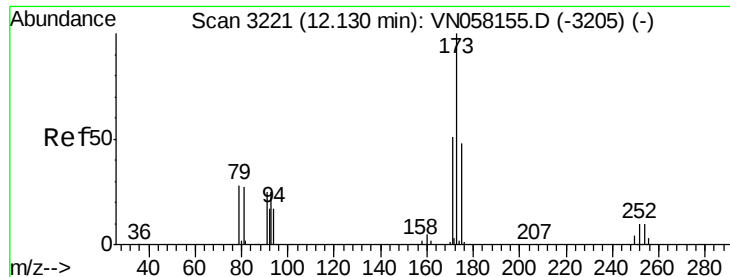
#64
Tetrachloroethene
Concen: 0.942 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.01 min
Lab File: VN058302.D
Acq: 23 Sep 2019 18:50

Tgt Ion:164 Resp: 3072
Ion Ratio Lower Upper
164 100
166 128.2 102.2 153.4
129 103.8 79.6 119.4
131 123.5 76.0 114.0#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 3.686 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

Instrument :

MSVOA_N

ClientSampled :

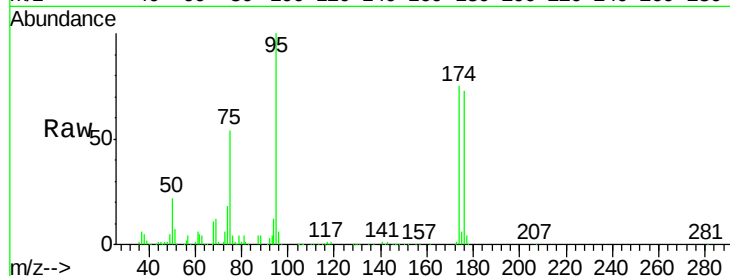
Tot Ion:173 Resp: 311

Ion Ratio Lower Upper

173 100

175 4584.6 24.2 72.6#

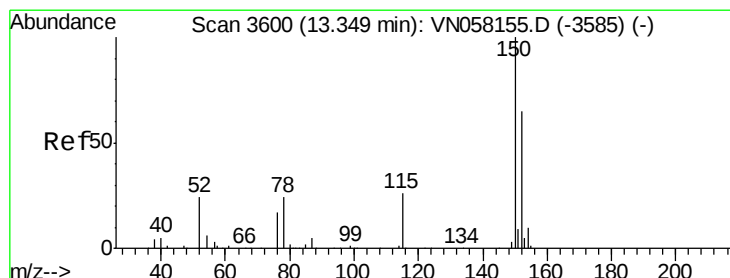
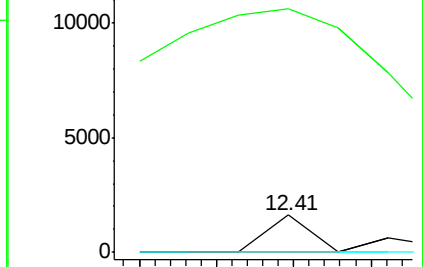
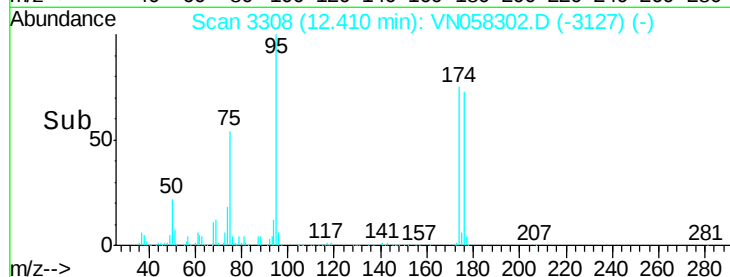
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

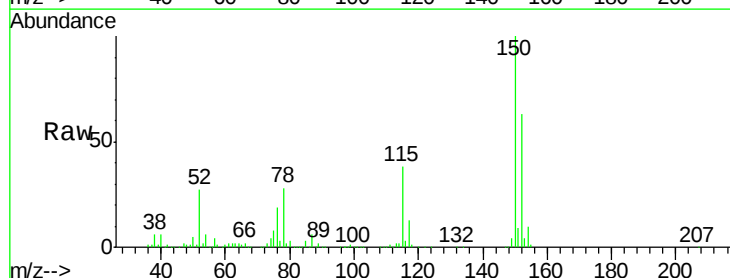
Tgt Ion:152 Resp: 252890

Ion Ratio Lower Upper

152 100

115 61.2 30.1 90.3

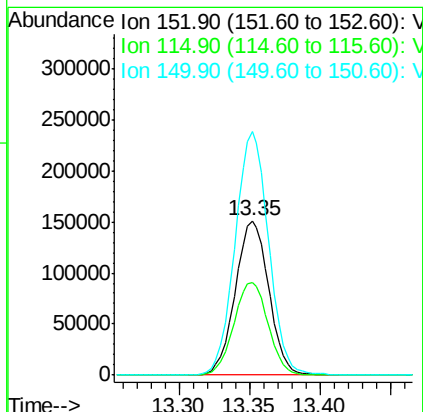
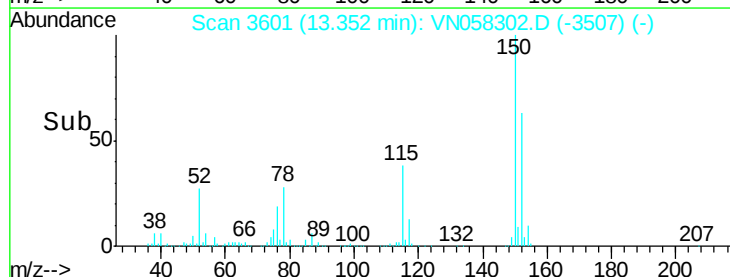
150 156.9 0.0 346.4

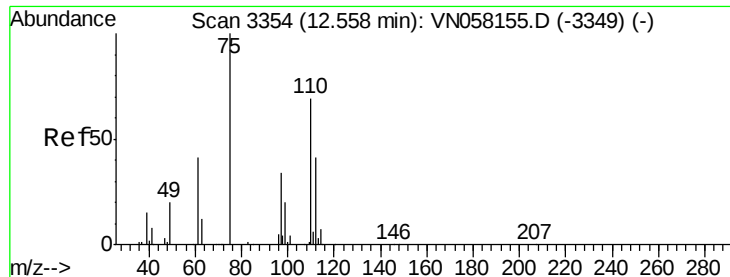


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 37.299 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

Instrument :

MSVOA_N

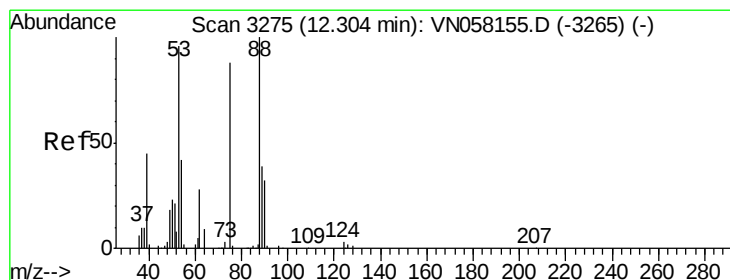
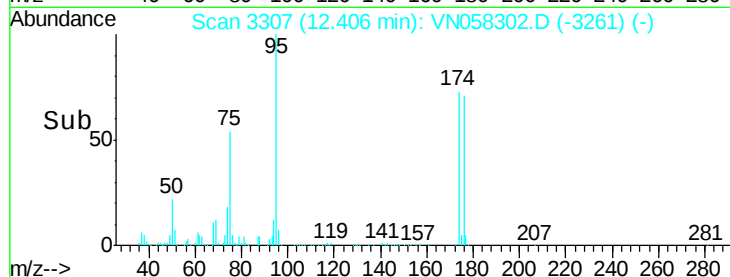
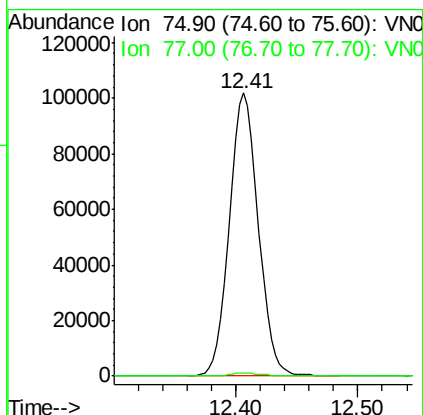
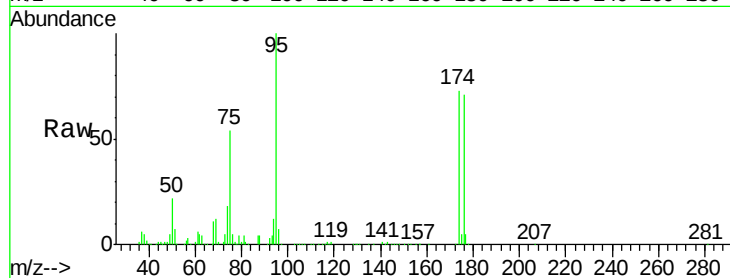
ClientSampled :

Tot Ion: 75 Resp: 168813

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 103.959 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058302.D

Acq: 23 Sep 2019 18:50

Tgt Ion: 75 Resp: 168813

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#

