

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055908.D
 Acq On : 31 May 2019 10:32
 Operator : JC/SP
 Sample : VN0531MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531MBL01

Quant Time: May 31 18:04:33 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	322502	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	493055	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	435595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139700	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	164721	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
35) Dibromofluoromethane	7.59	113	147516	47.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.64%	
50) Toluene-d8	10.09	98	584671	48.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.80%	
62) 4-Bromofluorobenzene	12.40	95	178153	43.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.90%	

Target Compounds

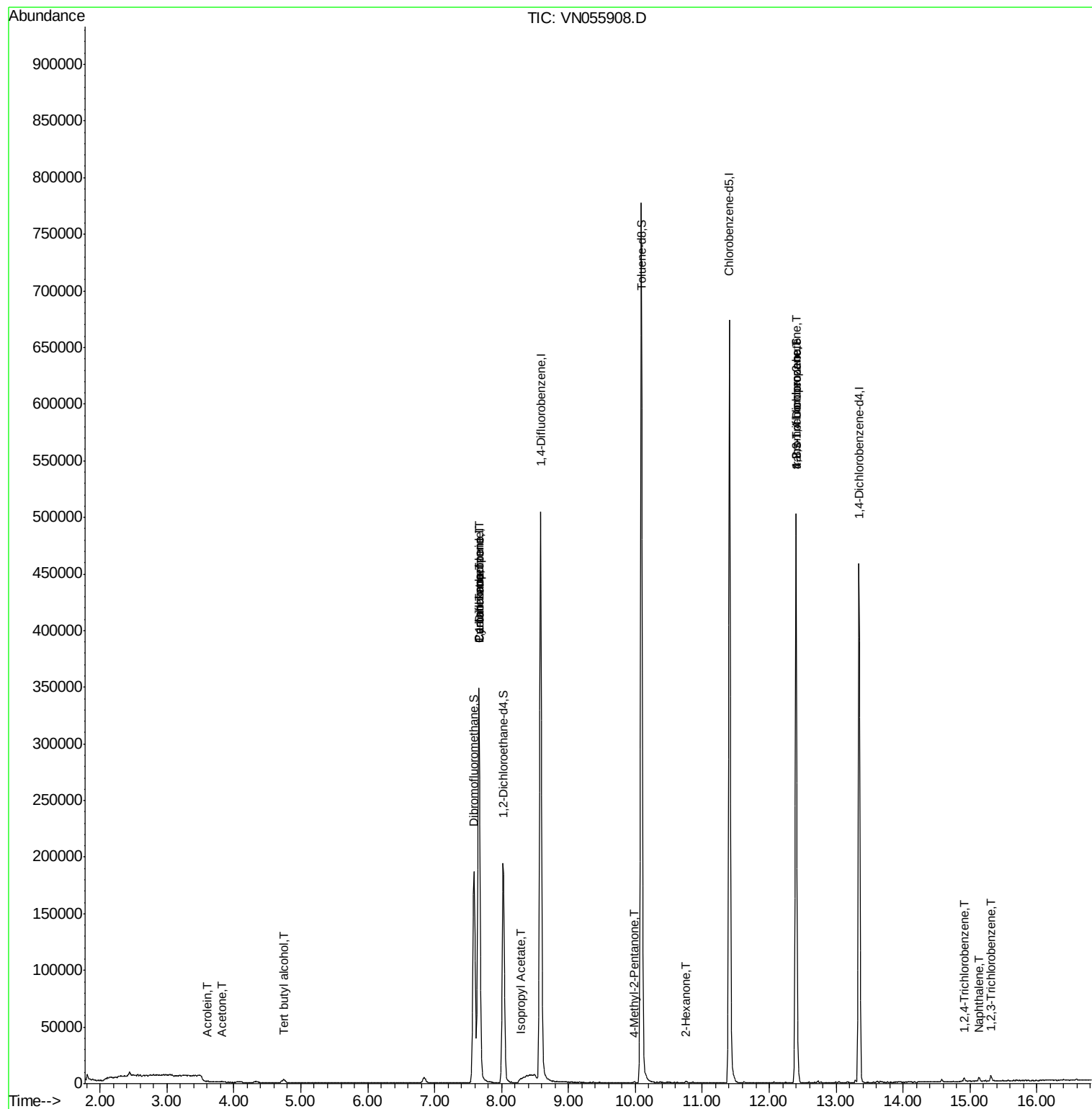
						Qvalue
11) Tert butyl alcohol	4.74	59	2863	4.499	ug/l #	74
13) Acrolein	3.60	56	281	0.617	ug/l #	70
16) Acetone	3.82	43	1867	1.275	ug/l #	41
18) Methyl Acetate	4.34	43	2706	Below Cal	#	67
31) Cyclohexane	7.66	56	4960	0.992	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20424	4.753	ug/l #	48
38) Carbon Tetrachloride	7.66	117	27939	6.242	ug/l #	15
43) Isopropyl Acetate	8.28	43	2257	0.323	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1455	0.353	ug/l #	52
59) 2-Hexanone	10.75	43	1734	0.593	ug/l	71
73) Isopropylbenzene	12.25	105	609	Below Cal	#	48
74) N-amyl acetate	12.07	43	840	Below Cal	#	57
76) 1,2,3-Trichloropropane	12.40	75	82837	33.391	ug/l #	100
79) 2-Chlorotoluene	12.68	91	444	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	544	Below Cal		69
81) trans-1,4-Dichloro-2-buten	12.40	75	82837	79.782	ug/l #	15
83) tert-Butylbenzene	12.99	119	465	Below Cal	#	70
84) 1,2,4-Trimethylbenzene	13.04	105	734	Below Cal		89
85) sec-Butylbenzene	13.17	105	929	Below Cal	#	71
93) 1,2,4-Trichlorobenzene	14.91	180	1628	4.194	ug/l	91
94) Hexachlorobutadiene	15.01	225	29	Below Cal	#	19
95) Naphthalene	15.13	128	4425	0.685	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.31	180	2446	0.983	ug/l	92

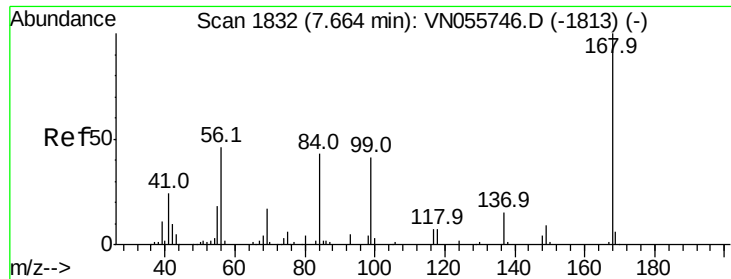
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN053119\
Data File : VN055908.D
Acq On : 31 May 2019 10:32
Operator : JC/SP
Sample : VN0531MBL01
Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

Quant Time: May 31 18:04:33 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
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: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampled :

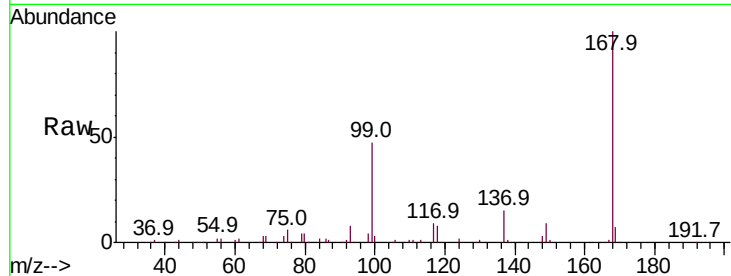
VN0531MBL01

Tot Ion:168 Resp: 322502

Ion Ratio Lower Upper

168 100

99 46.5 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

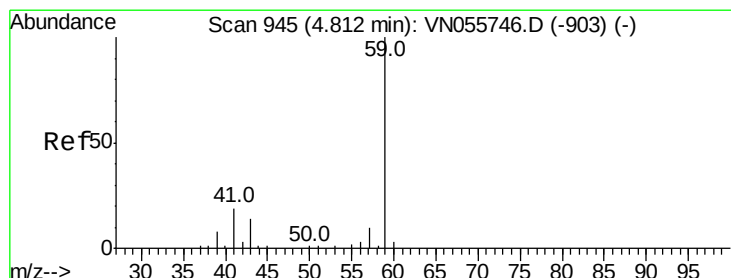
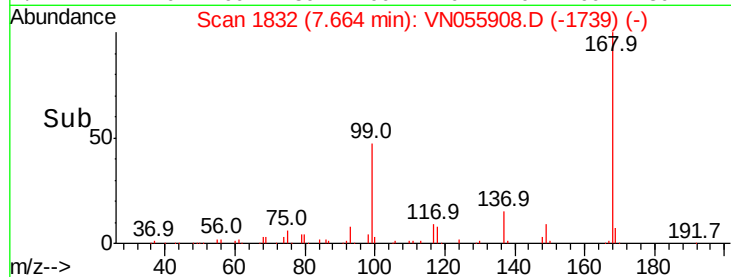
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.499 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055908.D

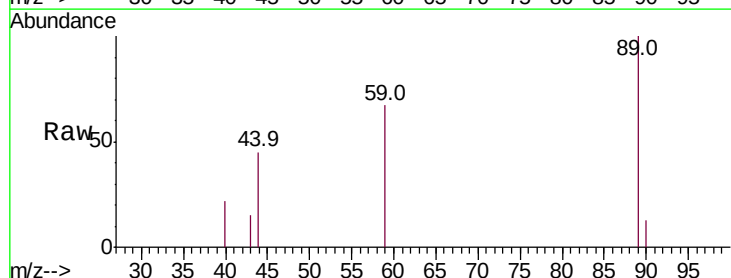
Acq: 31 May 2019 10:32

Tgt Ion: 59 Resp: 2863

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

1000

800

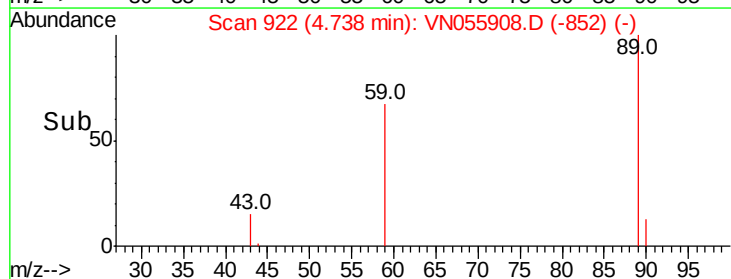
600

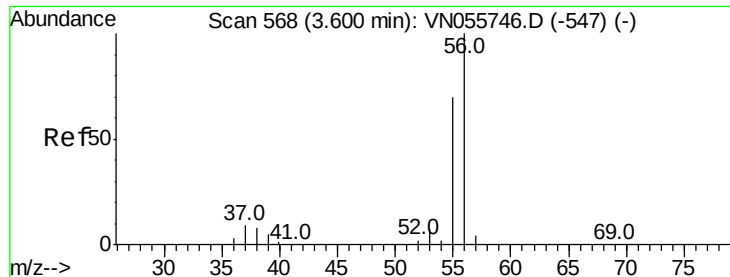
400

200

0

Time-->





#13

Acrolein

Concen: 0.617 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampleId :

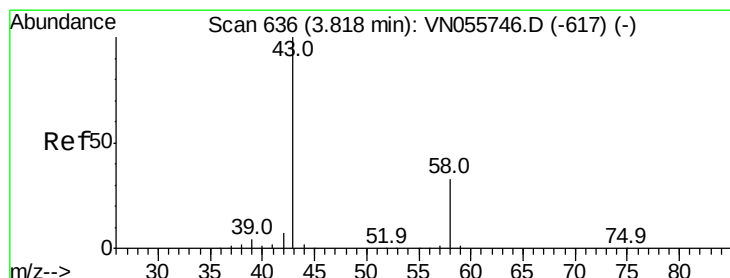
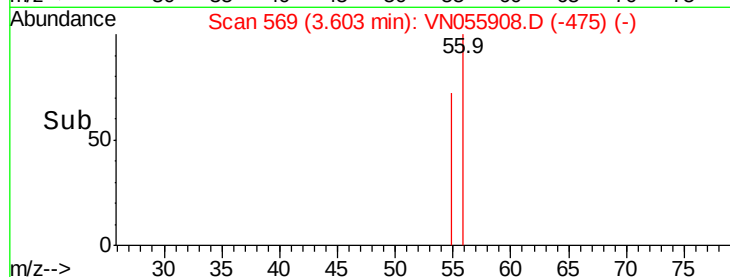
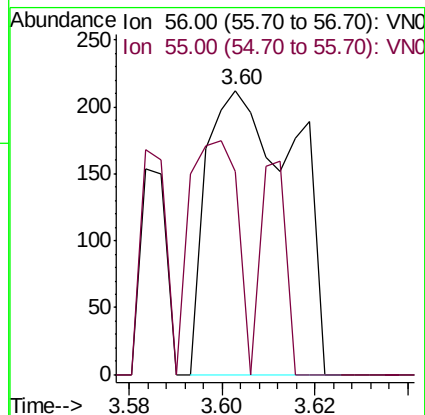
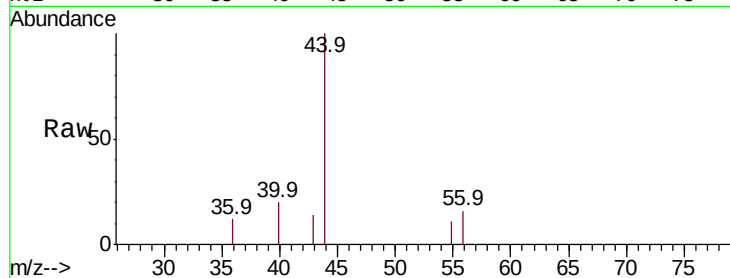
VN0531MBL01

Tot Ion: 56 Resp: 281

Ion Ratio Lower Upper

56 100

55 44.5 55.4 83.2#



#16

Acetone

Concen: 1.275 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN055908.D

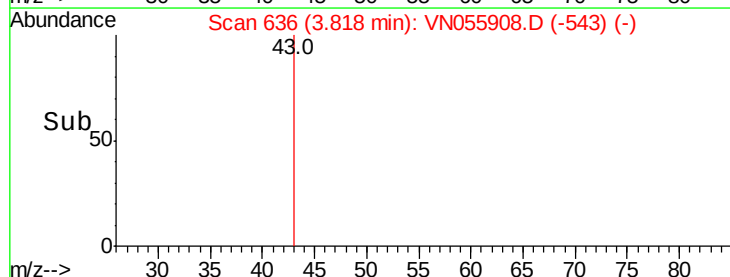
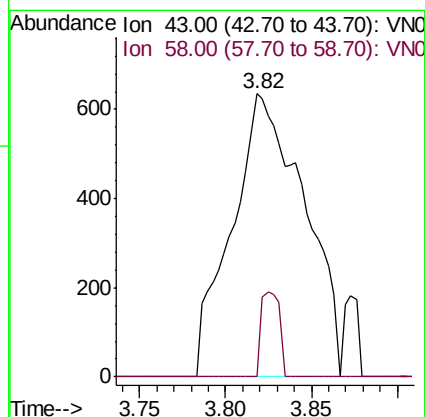
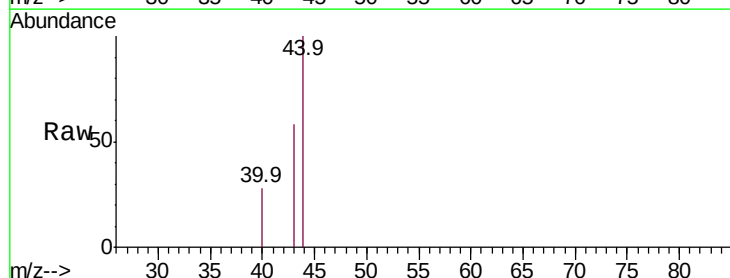
Acq: 31 May 2019 10:32

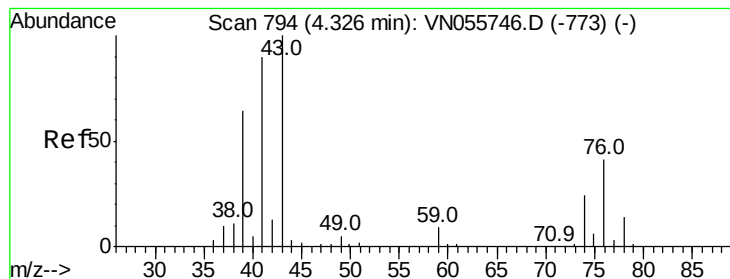
Tgt Ion: 43 Resp: 1867

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#





#18

Methvl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampleId :

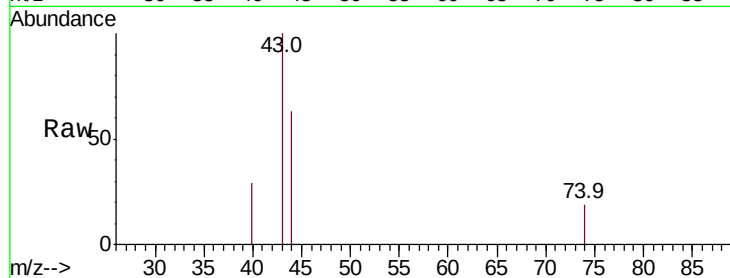
VN0531MBL01

Tot Ion: 43 Resp: 2706

Ion Ratio Lower Upper

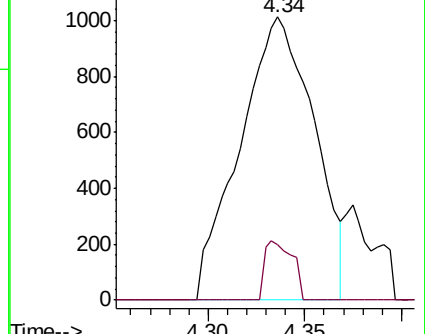
43 100

74 7.8 19.3 28.9#

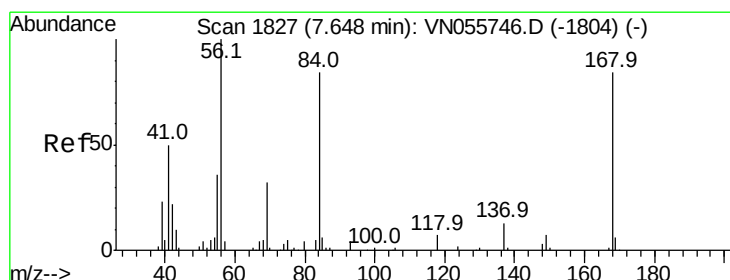
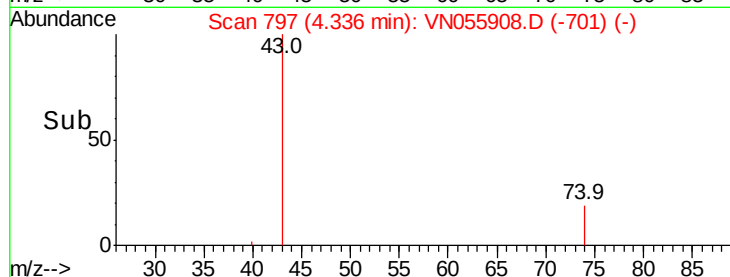


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



Time-->



#31

Cyclohexane

Concen: 0.992 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

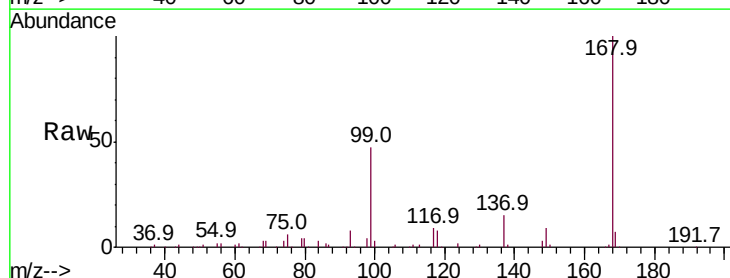
Tgt Ion: 56 Resp: 4960

Ion Ratio Lower Upper

56 100

69 196.3 25.6 38.4#

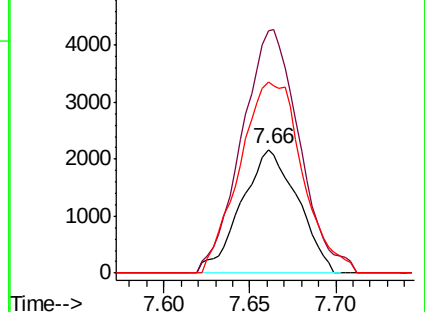
84 154.3 67.4 101.0#



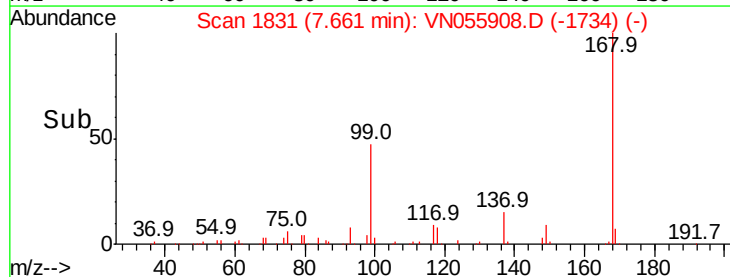
Abundance Ion 56.00 (55.70 to 56.70): VN0

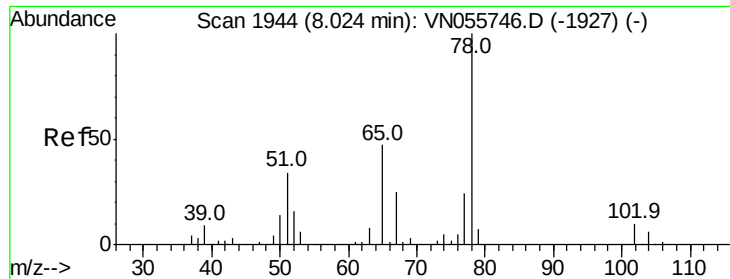
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

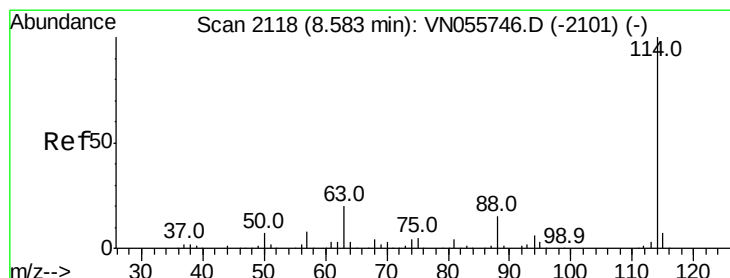
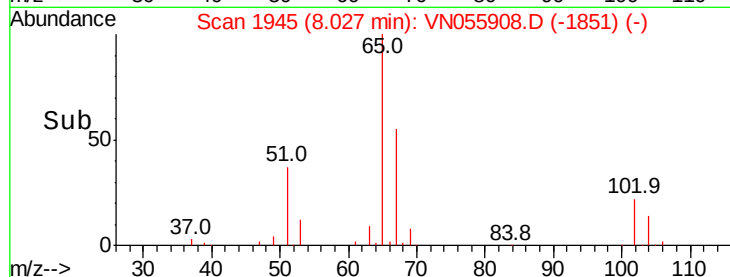
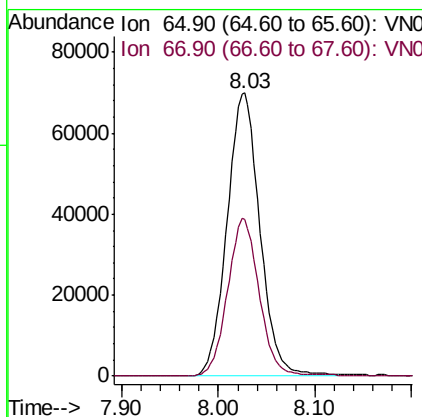
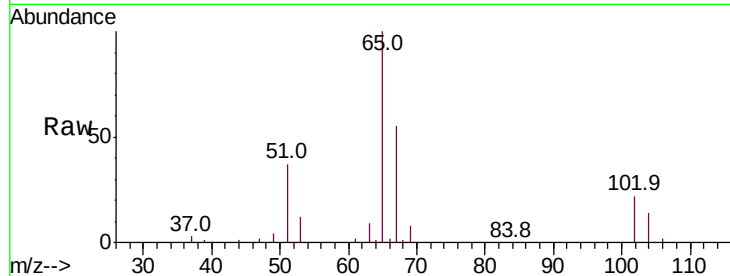




#33
 1,2-Dichloroethane-d4
 Concen: 49.458 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055908.D
 Acq: 31 May 2019 10:32

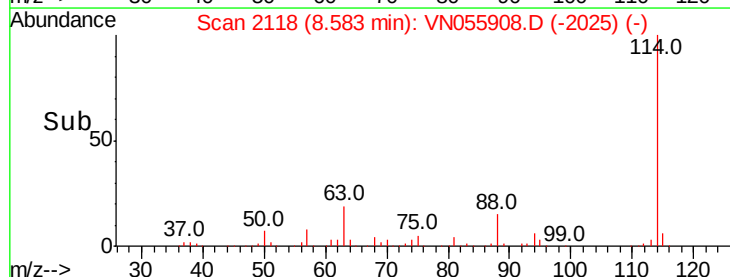
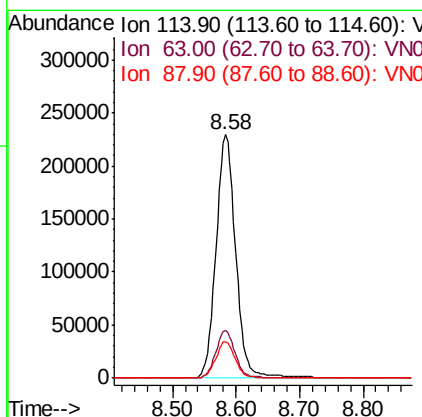
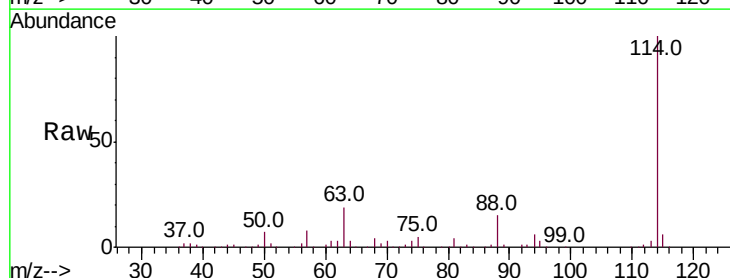
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531MBL01

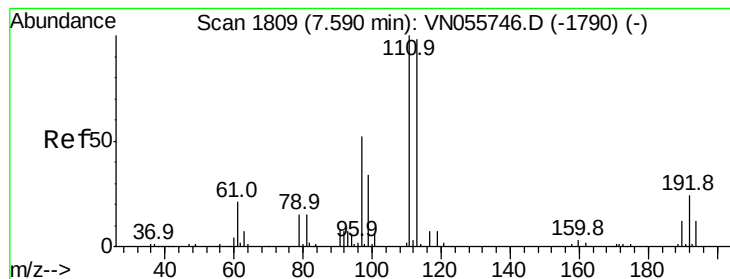
Tot Ion: 65 Resp: 164721
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055908.D
 Acq: 31 May 2019 10:32

Tgt Ion: 114 Resp: 493055
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.2
 88 15.0 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.322 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampleId :

VN0531MBL01

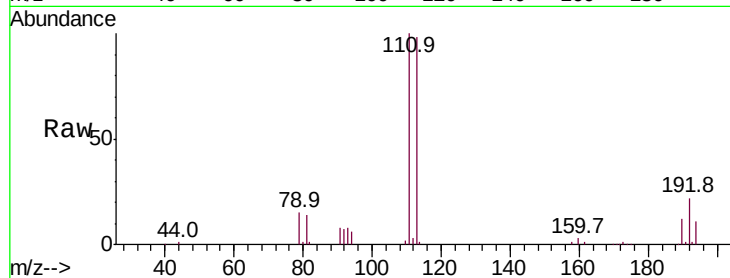
Tot Ion:113 Resp: 147516

Ion Ratio Lower Upper

113 100

111 101.2 81.9 122.9

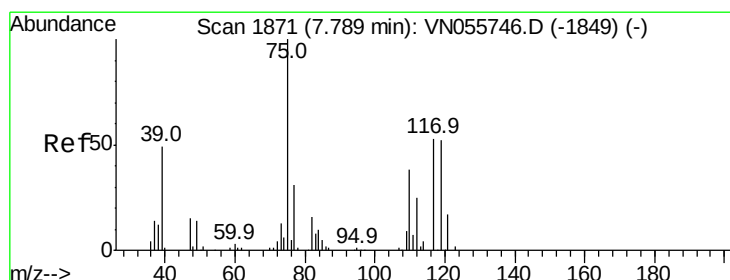
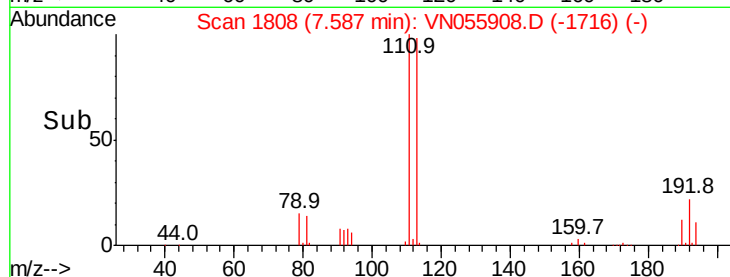
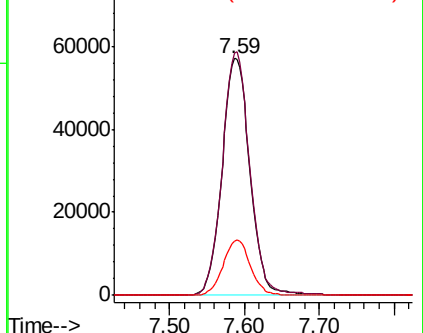
192 22.8 19.5 29.3



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: 4.753 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

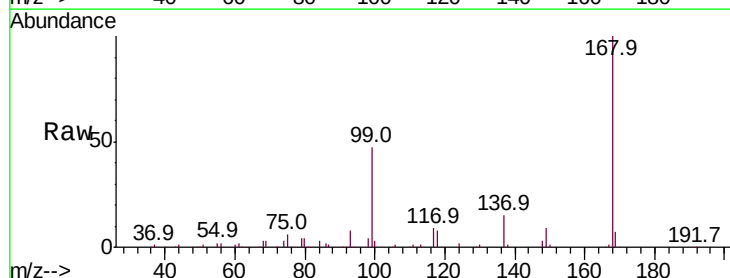
Tgt Ion: 75 Resp: 20424

Ion Ratio Lower Upper

75 100

110 8.7 19.0 57.0#

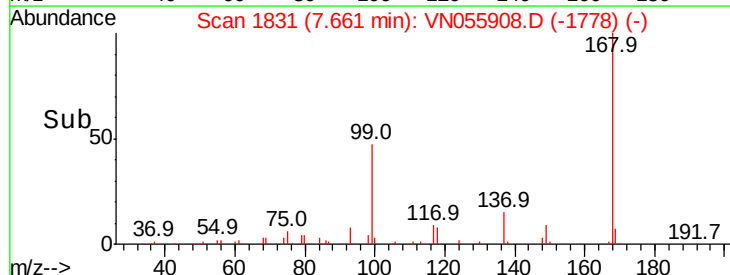
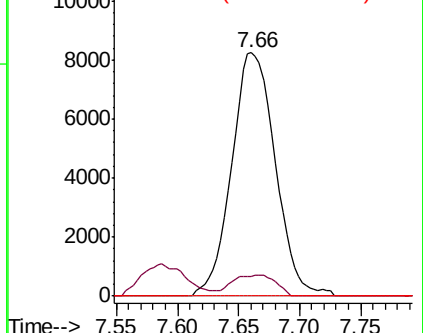
77 0.0 25.1 37.7#

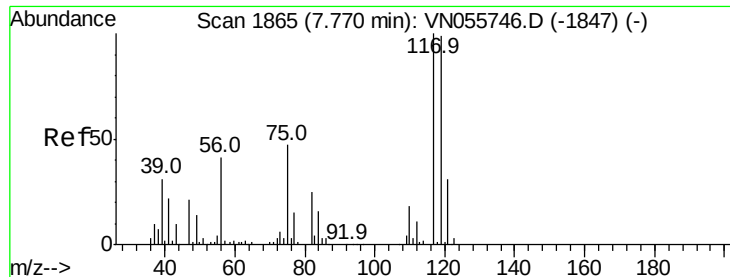


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

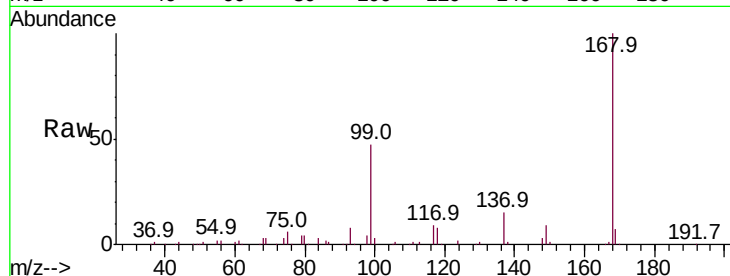




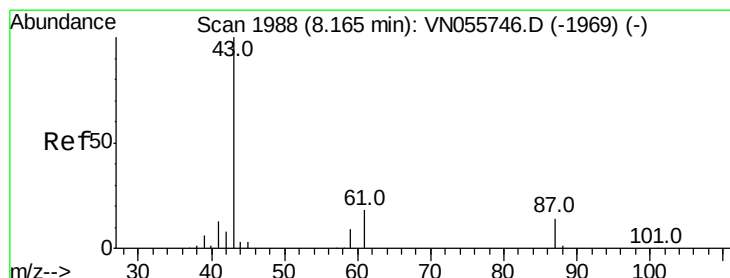
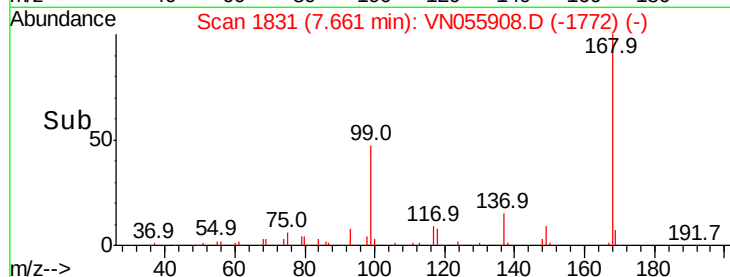
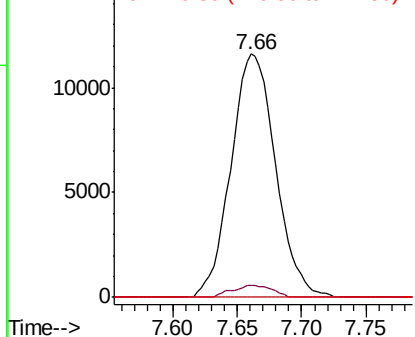
#38
Carbon Tetrachloride
Concen: 6.242 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN055908.D
Acq: 31 May 2019 10:32

Instrument :
MSVOA_N
ClientSampled :
VN0531MBL01

Tot Ion:117 Resp: 27939
Ion Ratio Lower Upper
117 100
119 5.1 79.0 118.6#
121 0.0 24.7 37.1#

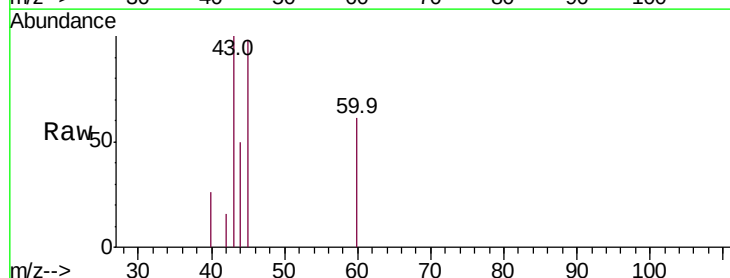


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

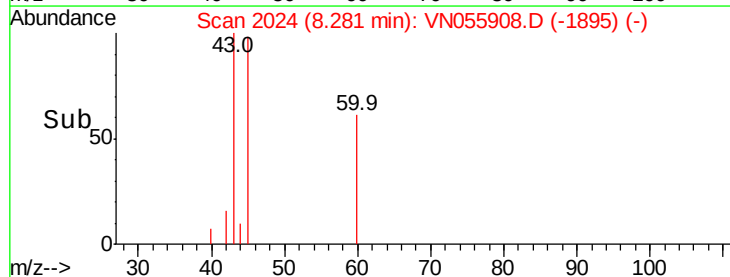
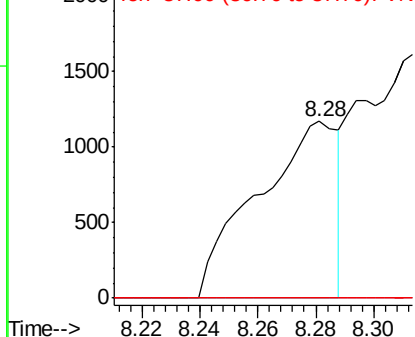


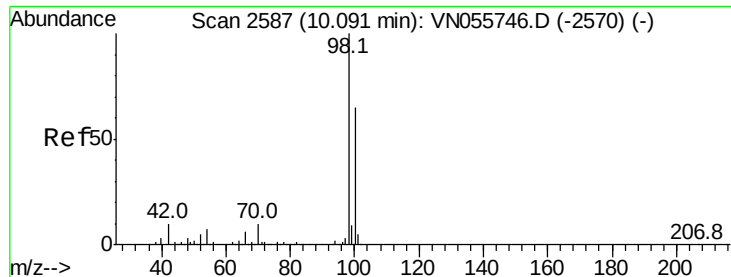
#43
Isopropyl Acetate
Concen: 0.323 ug/l
RT: 8.28 min Scan# 2024
Delta R.T. 0.12 min
Lab File: VN055908.D
Acq: 31 May 2019 10:32

Tgt Ion: 43 Resp: 2257
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): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

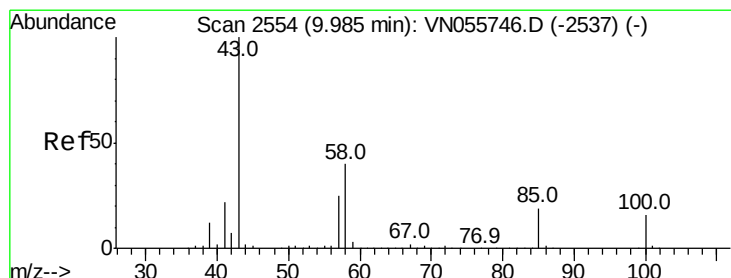
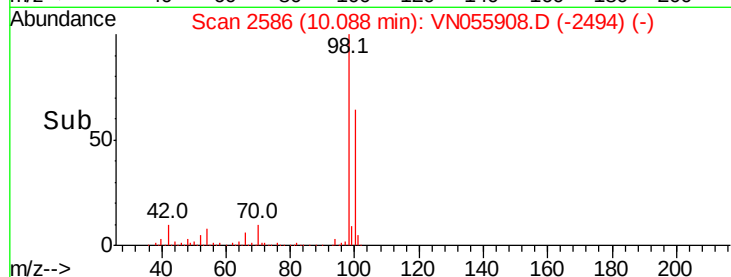
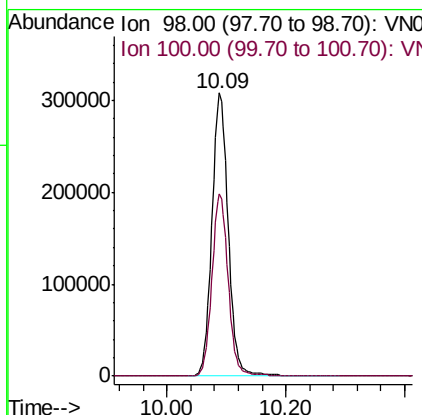
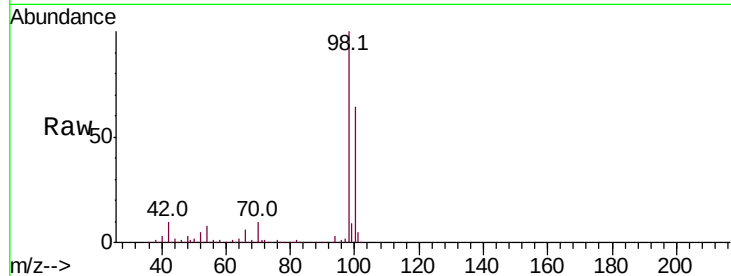




#50
Toluene-d8
Concen: 48.896 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055908.D
Acq: 31 May 2019 10:32

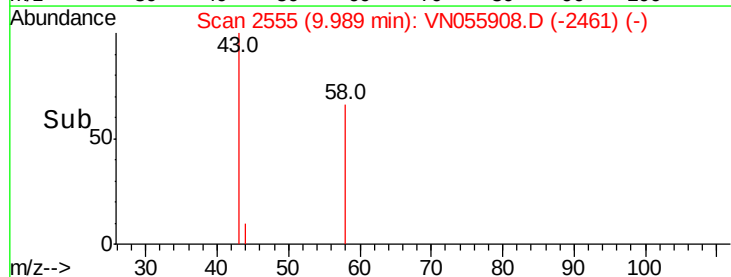
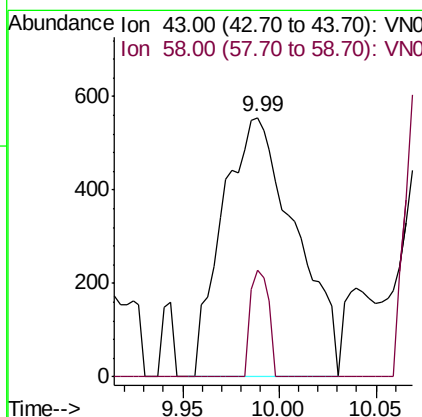
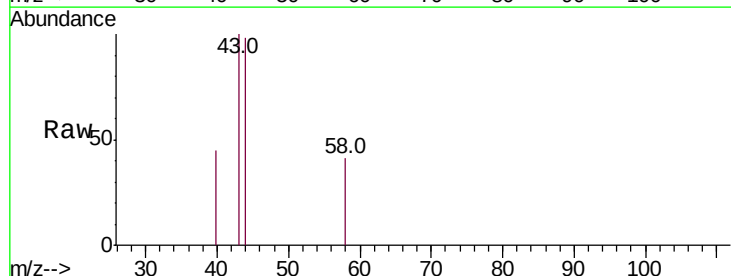
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

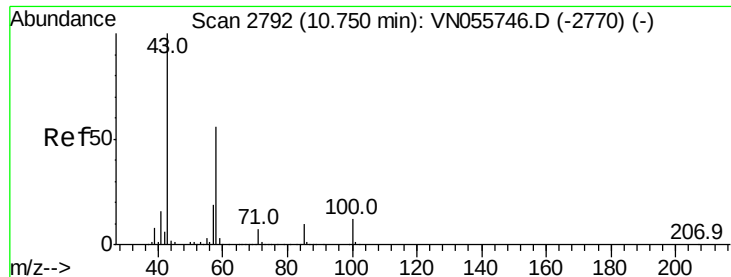
Tot Ion: 98 Resp: 584671
Ion Ratio Lower Upper
98 100
100 64.1 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.353 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN055908.D
Acq: 31 May 2019 10:32

Tgt Ion: 43 Resp: 1455
Ion Ratio Lower Upper
43 100
58 10.5 32.1 48.1#





#59

2-Hexanone

Concen: 0.593 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampleId :

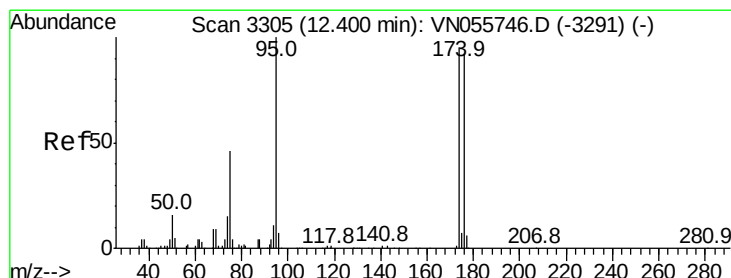
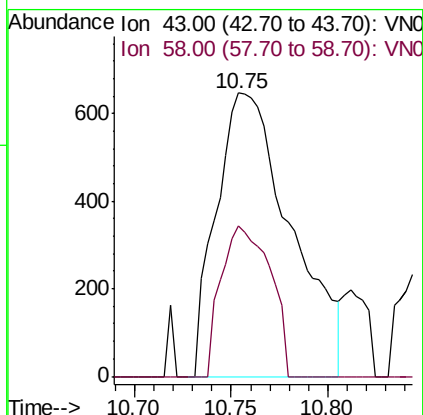
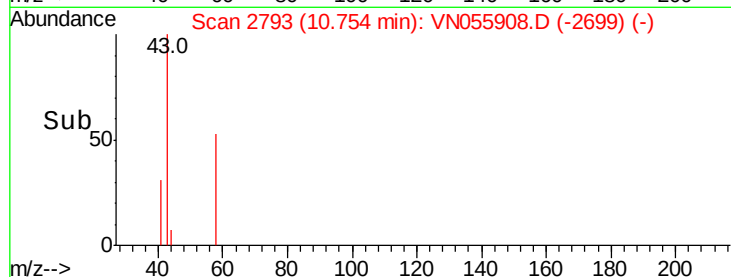
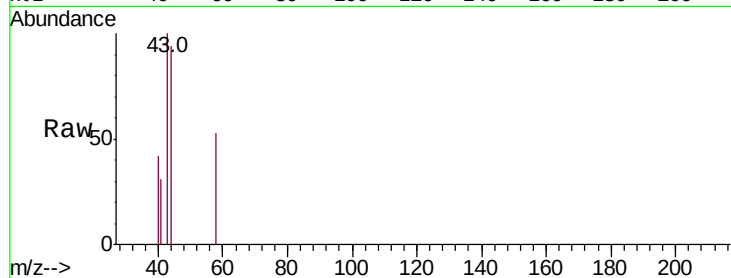
VN0531MBL01

Tot Ion: 43 Resp: 1734

Ion Ratio Lower Upper

43 100

58 35.0 28.2 84.7



#62

4-Bromofluorobenzene

Concen: 43.451 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

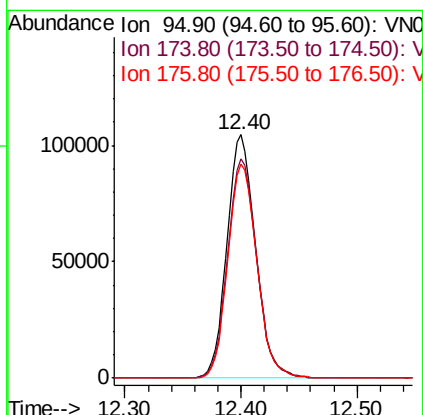
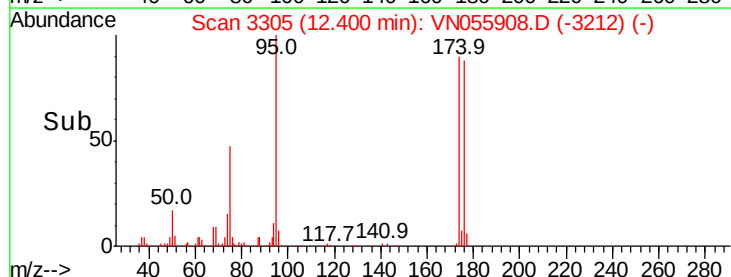
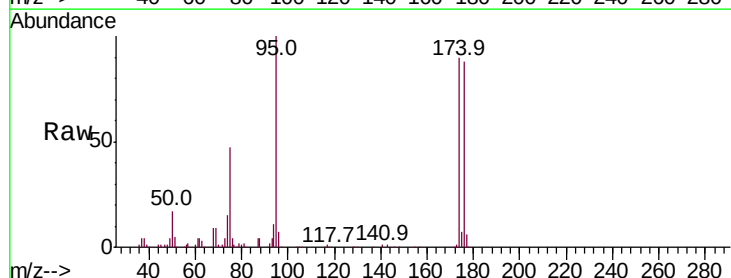
Tgt Ion: 95 Resp: 178153

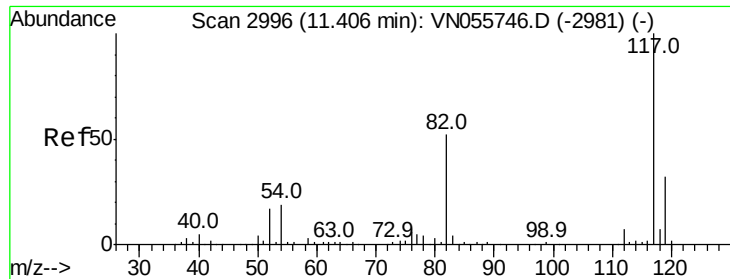
Ion Ratio Lower Upper

95 100

174 91.5 0.0 191.0

176 89.1 0.0 185.2

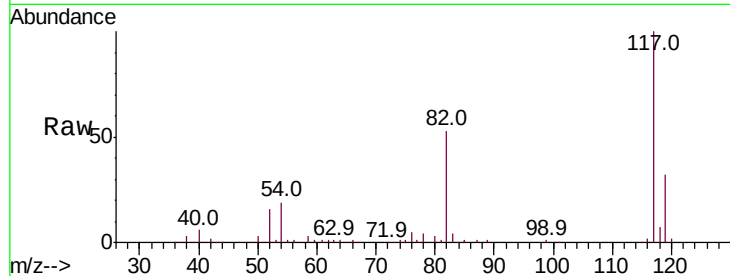




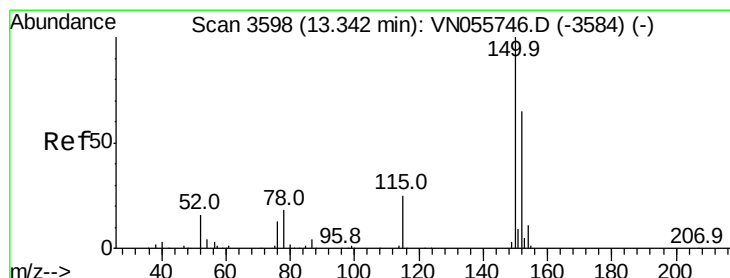
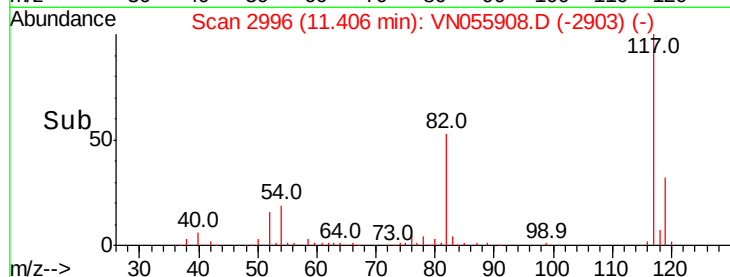
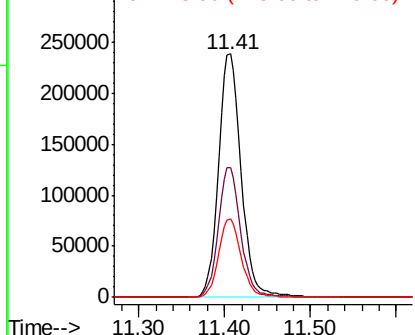
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055908.D
Acq: 31 May 2019 10:32

Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

Tot Ion:117 Resp: 435595
Ion Ratio Lower Upper
117 100
82 53.3 41.8 62.8
119 32.2 25.4 38.0

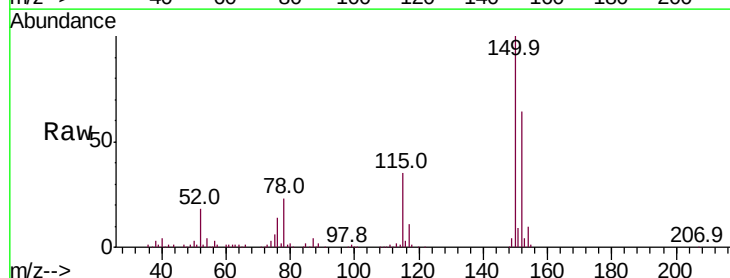


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

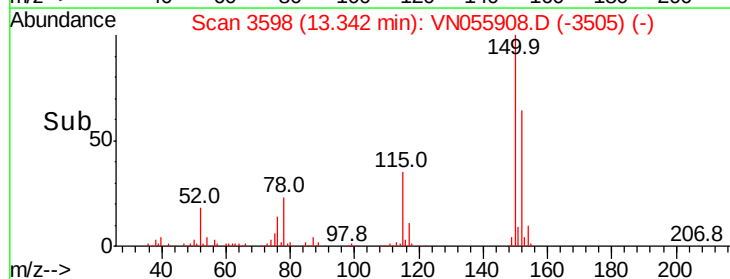
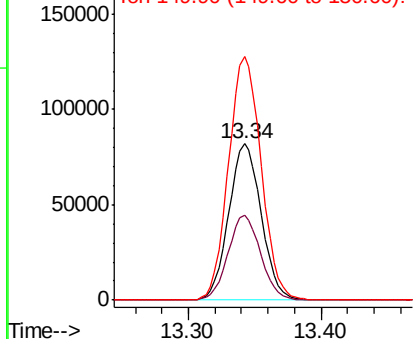


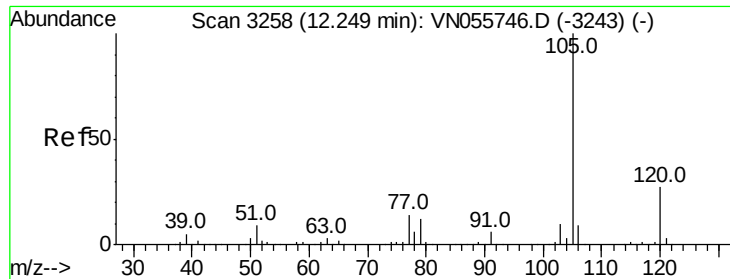
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055908.D
Acq: 31 May 2019 10:32

Tgt Ion:152 Resp: 139700
Ion Ratio Lower Upper
152 100
115 54.0 27.0 81.0
150 156.5 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: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampleId :

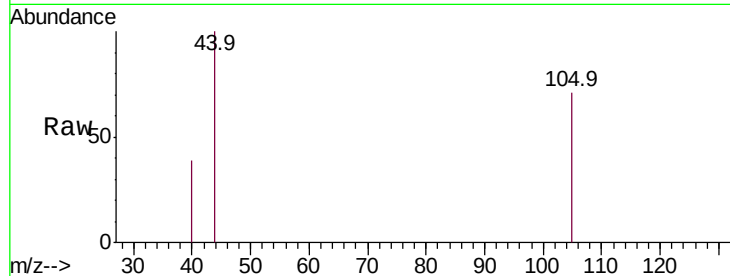
VN0531MBL01

Tot Ion:105 Resp: 609

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

12.25

400

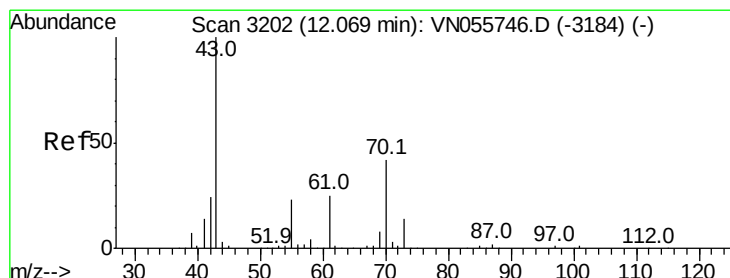
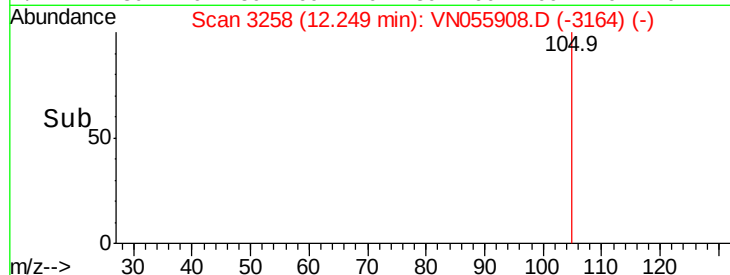
300

200

100

0

Time-->



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Tgt Ion: 43 Resp: 840

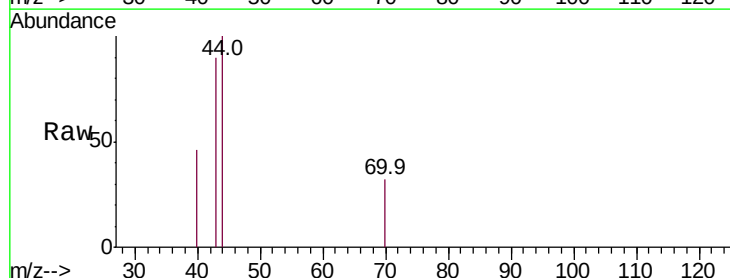
Ion Ratio Lower Upper

43 100

70 19.6 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

800

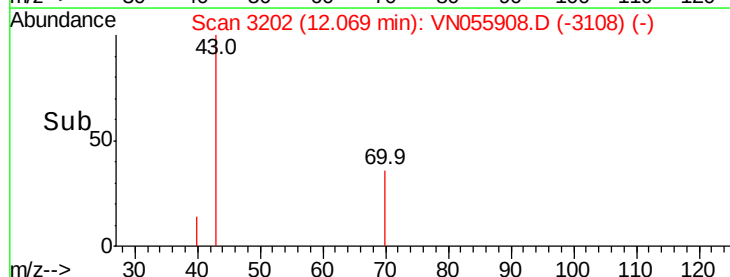
600

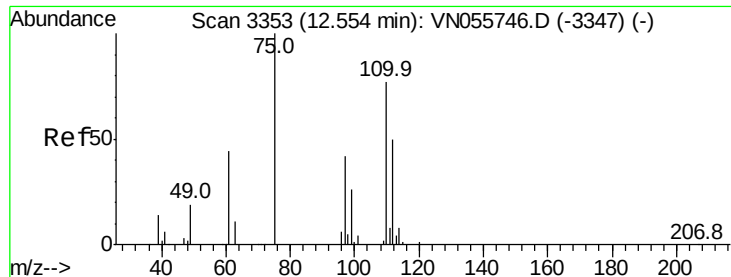
400

200

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 33.391 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampled :

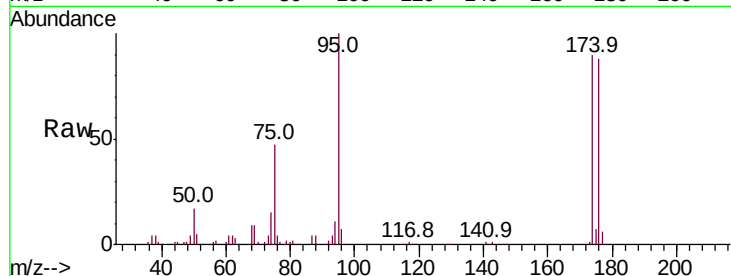
VN0531MBL01

Tot Ion: 75 Resp: 82837

Ion Ratio Lower Upper

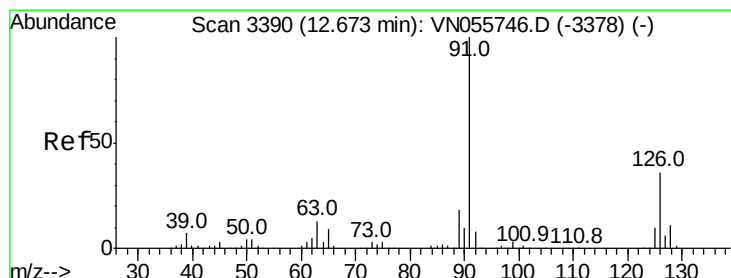
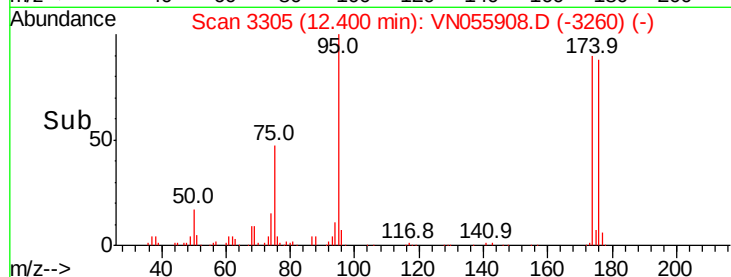
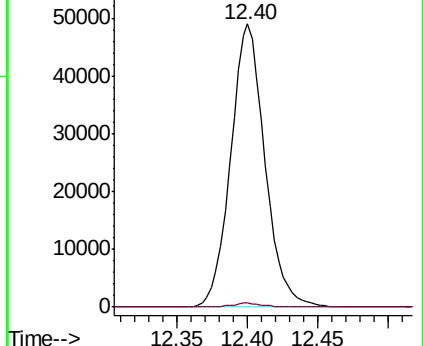
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055908.D

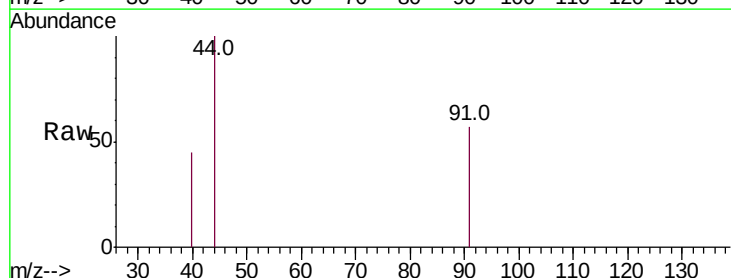
Acq: 31 May 2019 10:32

Tgt Ion: 91 Resp: 444

Ion Ratio Lower Upper

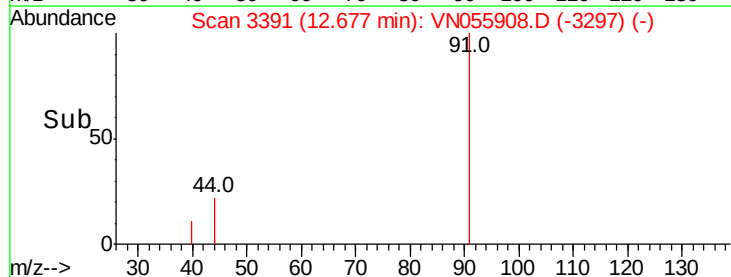
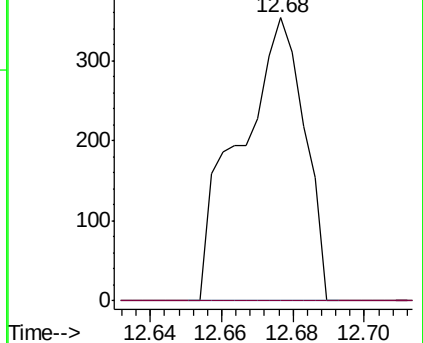
91 100

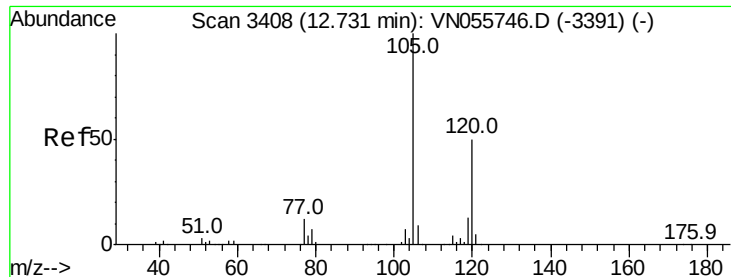
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampled :

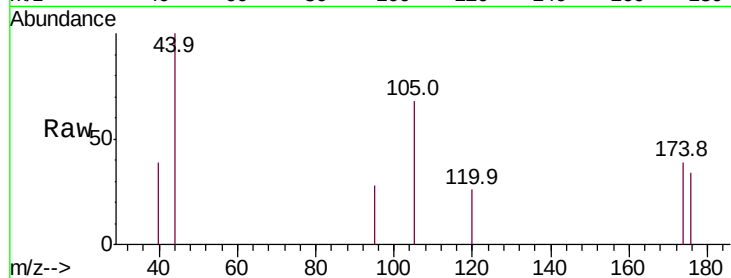
VN0531MBL01

Tot Ion:105 Resp: 544

Ion Ratio Lower Upper

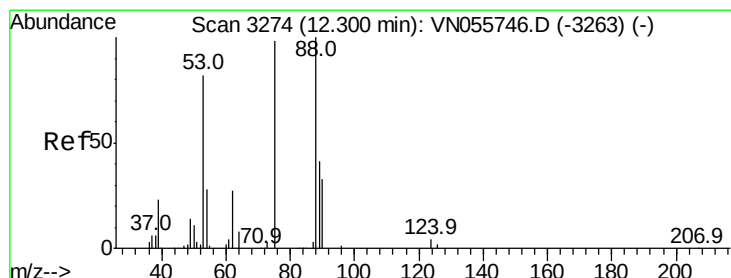
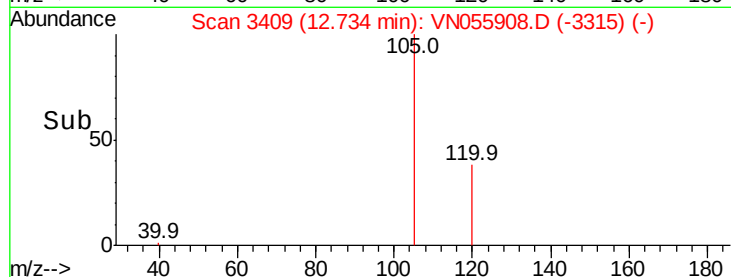
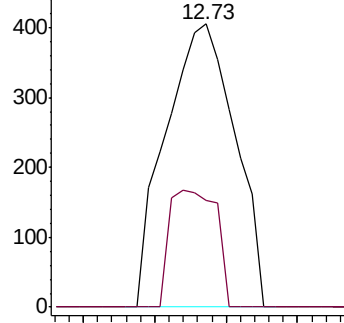
105 100

120 27.9 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 79.782 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

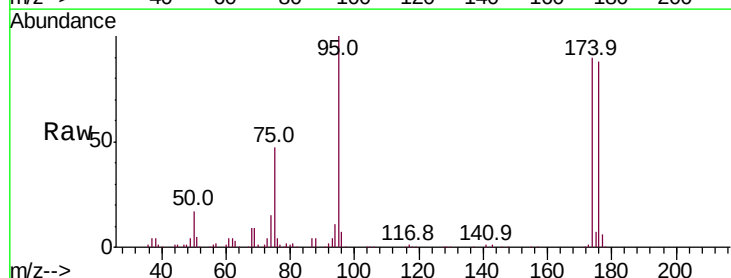
Tgt Ion: 75 Resp: 82837

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

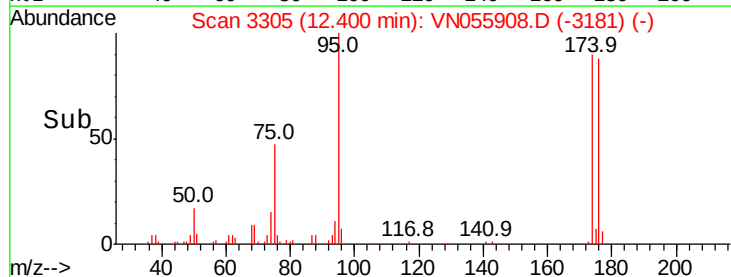
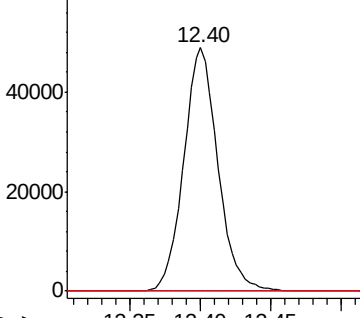
89 0.0 36.9 55.3#

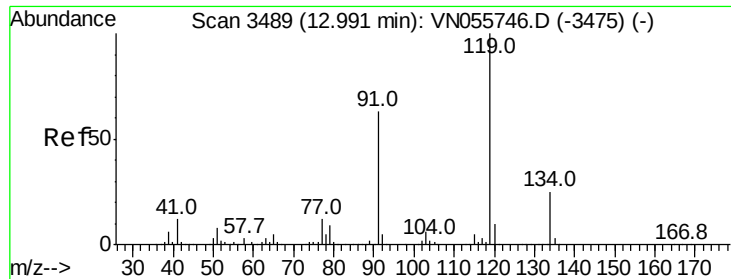


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

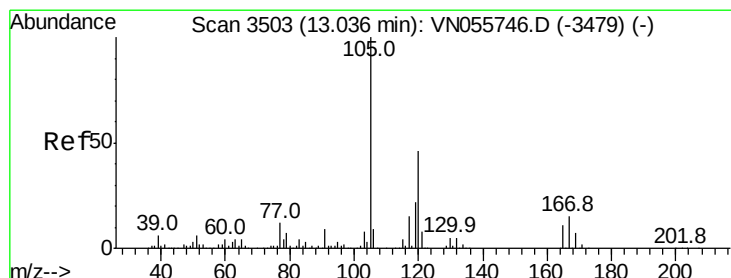
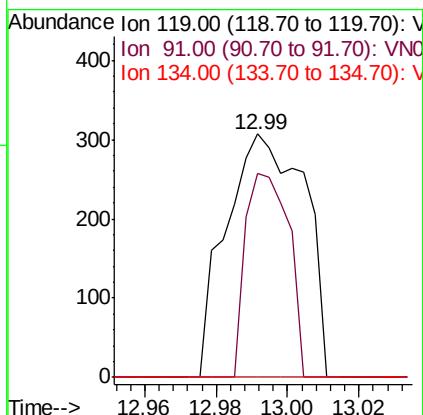
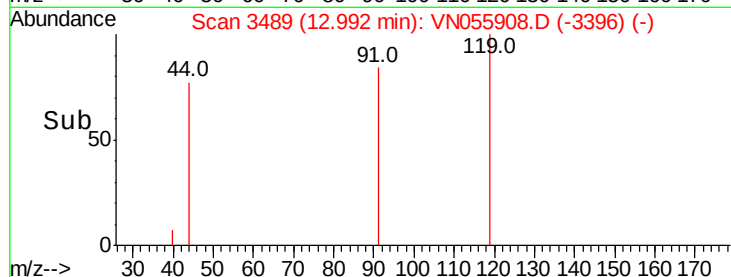
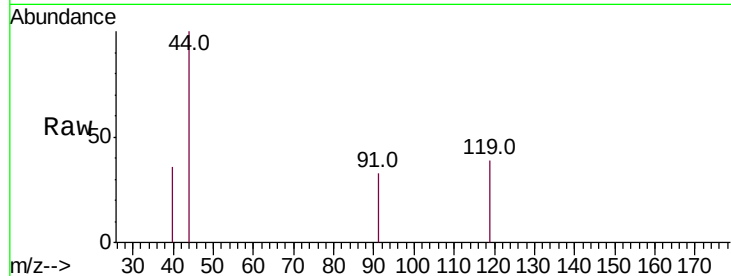




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN055908.D
 Acq: 31 May 2019 10:32

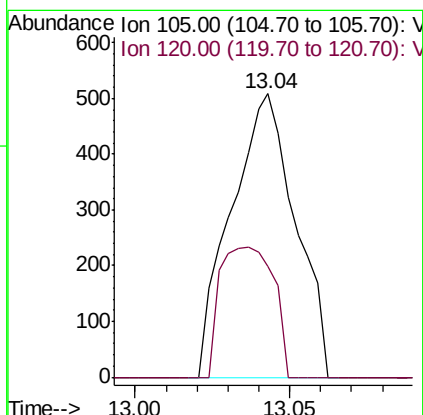
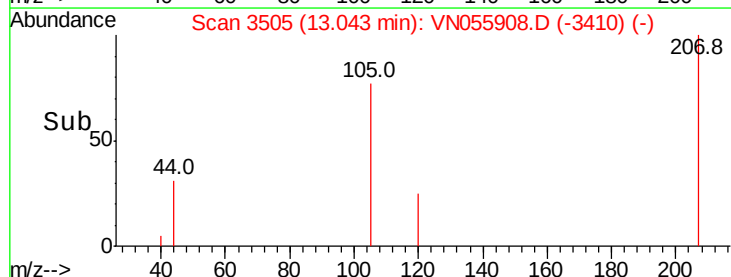
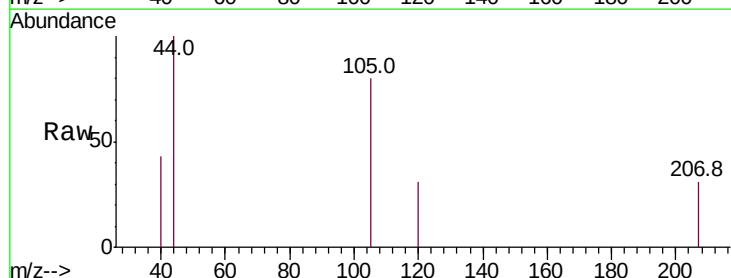
Instrument :
 MSVOA_N
 ClientSampleID :
 VN0531MBL01

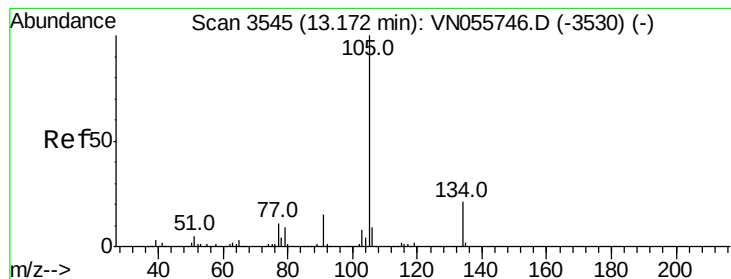
Tot Ion	Ratio	Lower	Upper
119	100		
91	46.2	30.9	92.8
134	0.0	13.3	39.8



#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.01 min
 Lab File: VN055908.D
 Acq: 31 May 2019 10:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	38.6	23.0	69.0





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampleId :

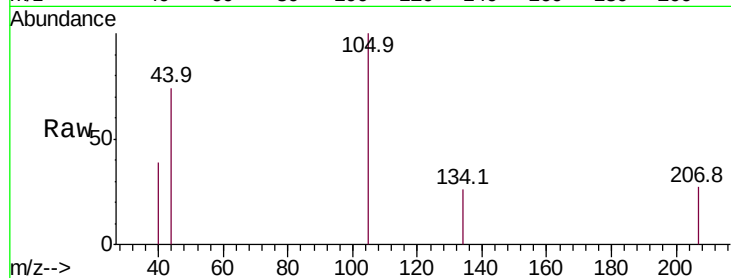
VN0531MBL01

Tot Ion:105 Resp: 929

Ion Ratio Lower Upper

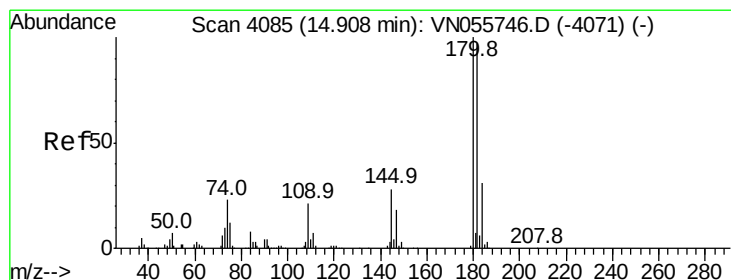
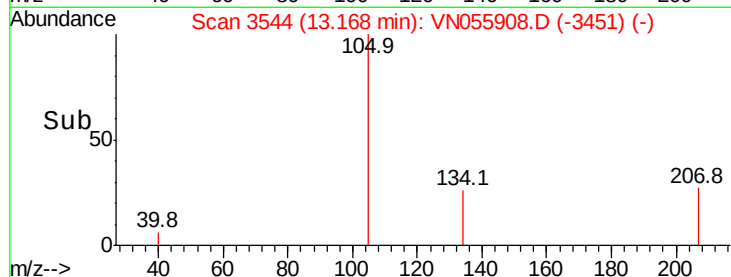
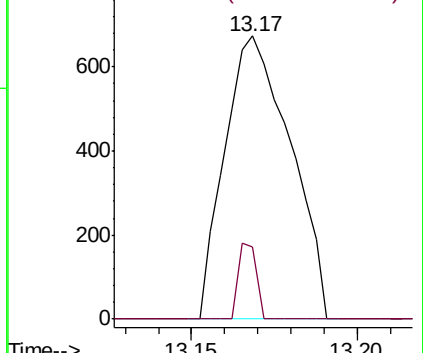
105 100

134 7.3 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#93

1,2,4-Trichlorobenzene

Concen: 4.194 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

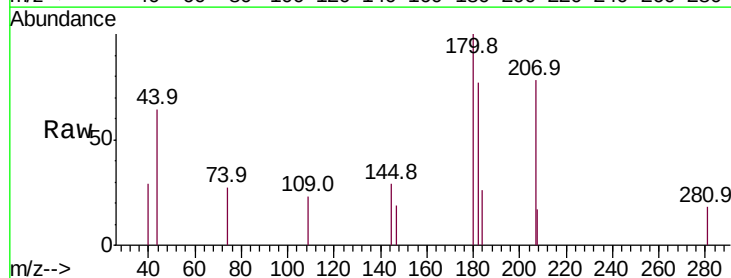
Tgt Ion:180 Resp: 1628

Ion Ratio Lower Upper

180 100

182 90.3 48.3 144.9

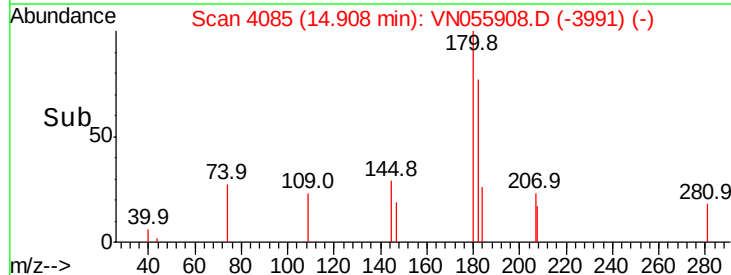
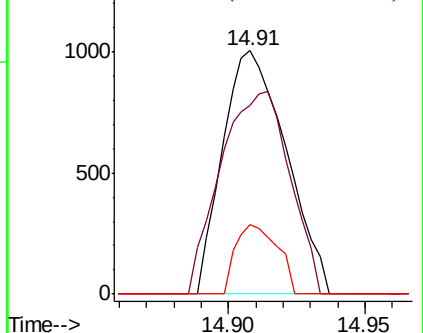
145 18.7 14.0 41.9

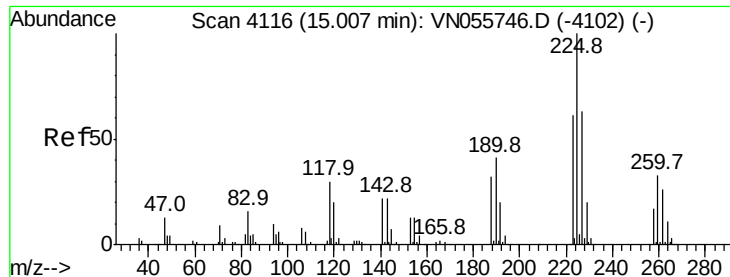


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

Instrument :

MSVOA_N

ClientSampled :

VN0531MBL01

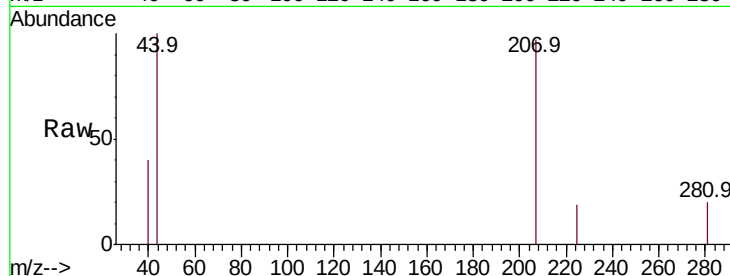
Tot Ion:225 Resp: 29

Ion Ratio Lower Upper

225 100

223 0.0 30.9 92.7#

227 0.0 31.6 94.7#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

15.01

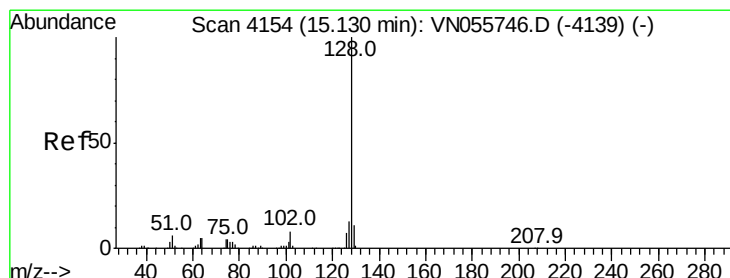
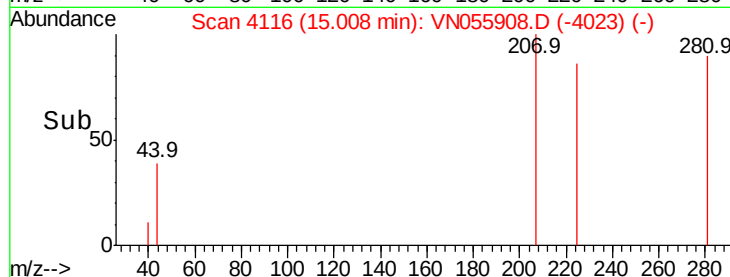
150

100

50

0

Time-->



#95

Naphthalene

Concen: 0.685 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055908.D

Acq: 31 May 2019 10:32

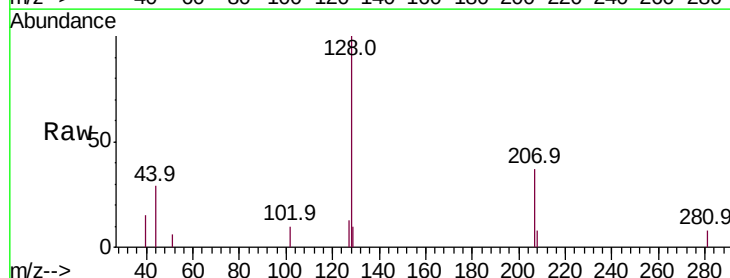
Tgt Ion:128 Resp: 4425

Ion Ratio Lower Upper

128 100

127 10.9 10.3 15.5

129 6.7 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

15.13

3000

2500

2000

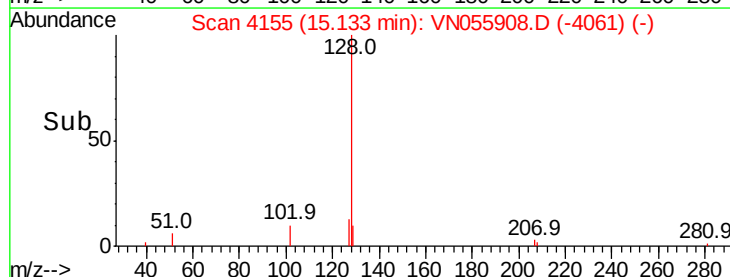
1500

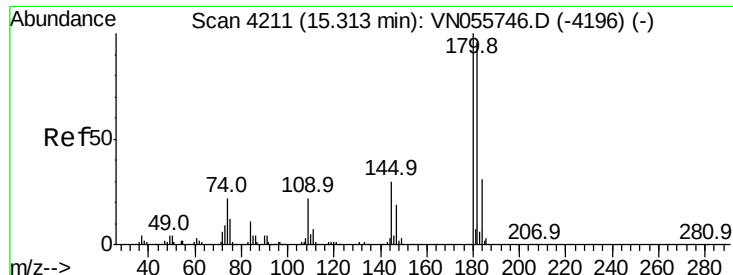
1000

500

0

Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 0.983 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN055908.D
 Acq: 31 May 2019 10:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531MBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.2	47.9	143.7
145	27.6	14.9	44.7

