

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055839.D
 Acq On : 28 May 2019 9:30
 Operator : JC/SP
 Sample : VN0528MBL01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0528MBL01

Quant Time: May 28 17:36:36 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

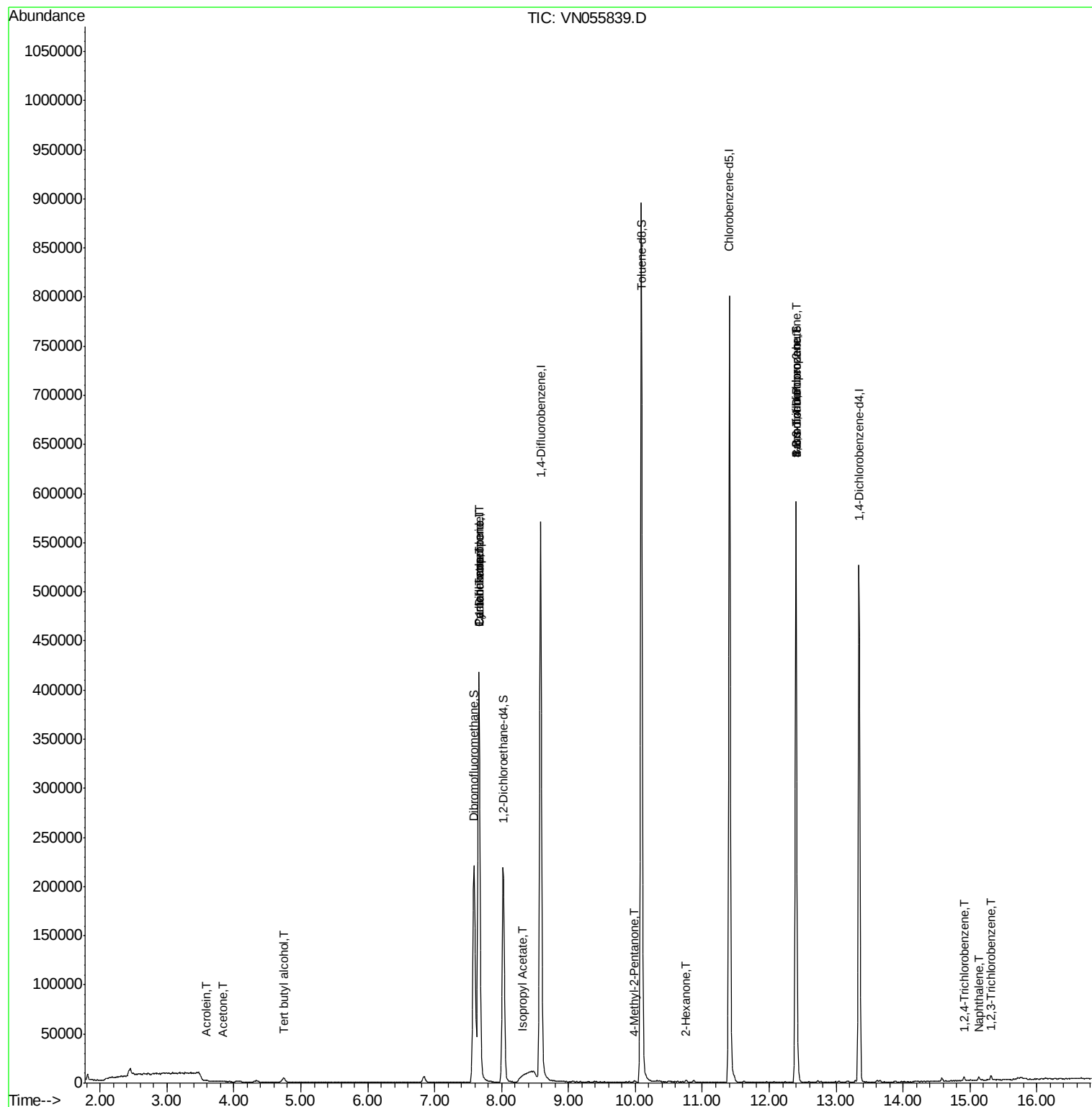
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	401808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	564798	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	506661	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	164034	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	188417	45.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.82%	
35) Dibromofluoromethane	7.59	113	171590	48.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.10%	
50) Toluene-d8	10.09	98	679349	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
62) 4-Bromofluorobenzene	12.40	95	207944	44.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.54%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	3693	4.658	ug/l #	74
13) Acrolein	3.59	56	498	0.877	ug/l #	43
16) Acetone	3.82	43	1166	0.639	ug/l #	41
18) Methyl Acetate	4.33	43	3188	Below Cal	#	74
31) Cyclohexane	7.67	56	5707	0.916	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22478	4.567	ug/l #	48
38) Carbon Tetrachloride	7.66	117	33048	6.446	ug/l #	14
43) Isopropyl Acetate	8.30	43	7267	0.909	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1076	0.228	ug/l #	80
59) 2-Hexanone	10.75	43	1261	0.377	ug/l	86
71) Bromoform	12.40	173	1408	0.408	ug/l #	1
73) Isopropylbenzene	12.25	105	650	Below Cal	#	48
74) N-amyl acetate	12.07	43	899	Below Cal	#	50
76) 1,2,3-Trichloropropane	12.40	75	94482	32.339	ug/l #	100
79) 2-Chlorotoluene	12.68	91	551	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	685	Below Cal		80
81) trans-1,4-Dichloro-2-buten	12.40	75	94482	77.498	ug/l #	15
83) tert-Butylbenzene	12.99	119	510	Below Cal	#	83
84) 1,2,4-Trimethylbenzene	13.04	105	1085	Below Cal		79
85) sec-Butylbenzene	13.17	105	961	Below Cal		92
93) 1,2,4-Trichlorobenzene	14.91	180	1782	4.156	ug/l	98
94) Hexachlorobutadiene	15.01	225	231	Below Cal	#	36
95) Naphthalene	15.13	128	4491	0.592	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.32	180	2169	0.742	ug/l	91

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

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ALS Vial : 3 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VN0528MBL01

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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: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

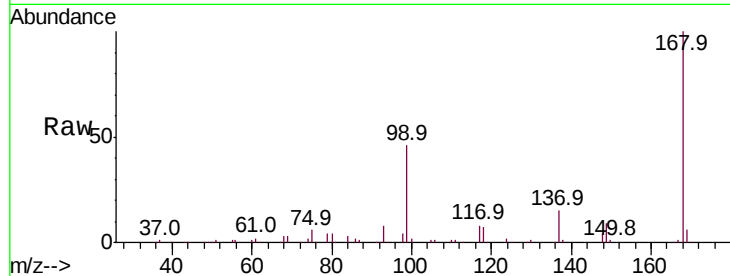
VN0528MBL01

Tot Ion:168 Resp: 401808

Ion Ratio Lower Upper

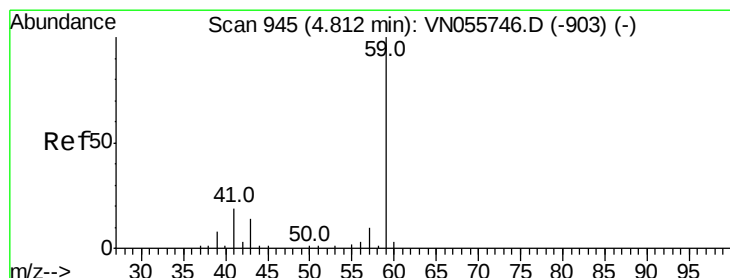
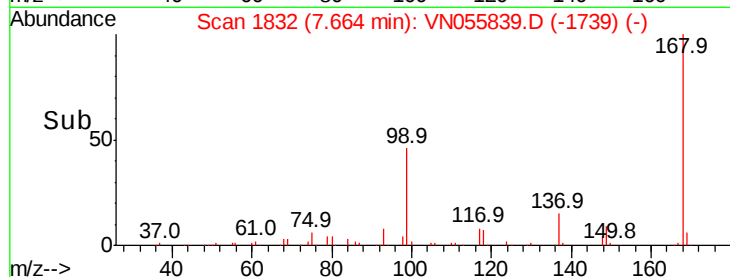
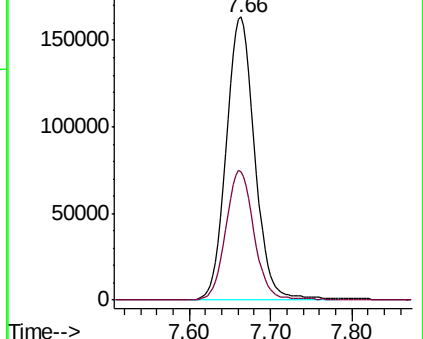
168 100

99 45.6 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 4.658 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055839.D

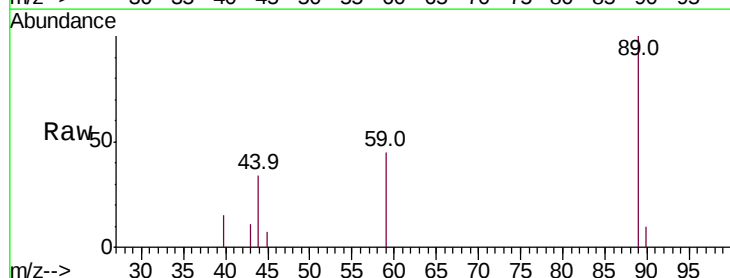
Acq: 28 May 2019 9:30

Tgt Ion: 59 Resp: 3693

Ion Ratio Lower Upper

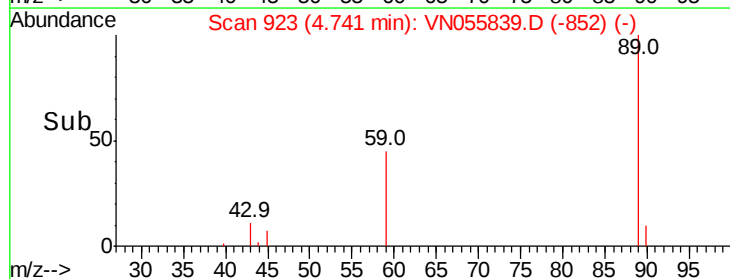
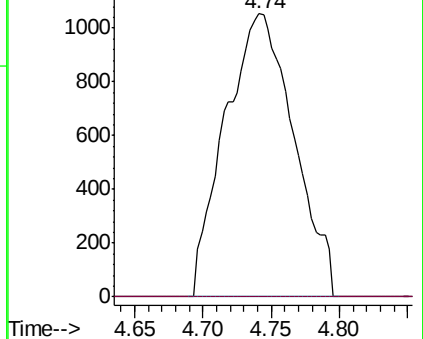
59 100

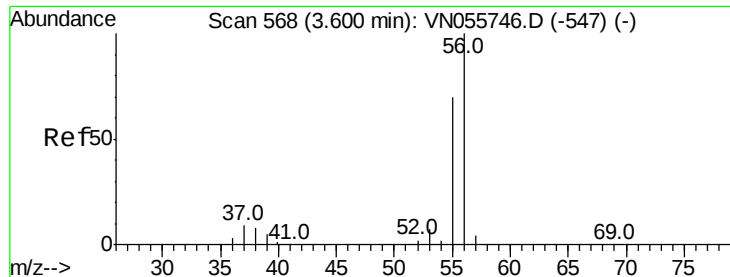
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#13

Acrolein

Concen: 0.877 ug/l

RT: 3.59 min Scan# 565

Delta R.T. -0.01 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

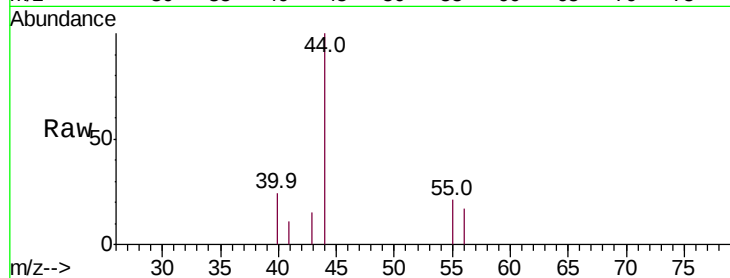
VN0528MBL01

Tot Ion: 56 Resp: 498

Ion Ratio Lower Upper

56 100

55 22.7 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.59

300

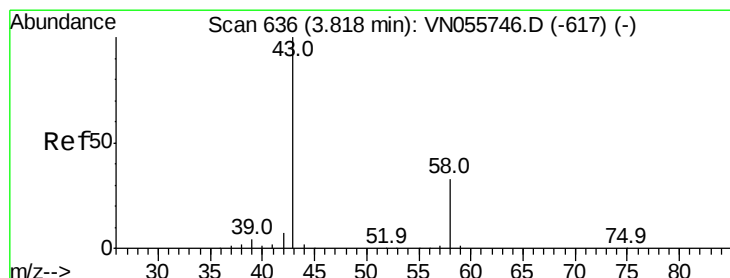
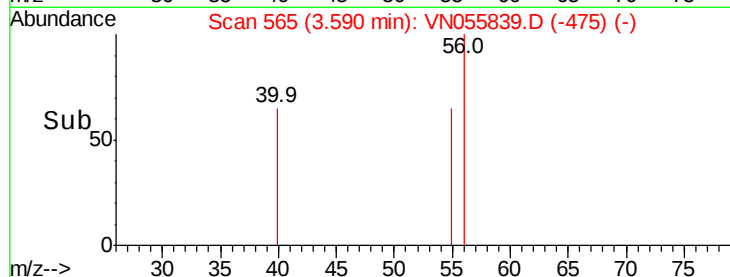
200

100

0

3.56 3.58 3.60 3.62

Time-->



#16

Acetone

Concen: 0.639 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055839.D

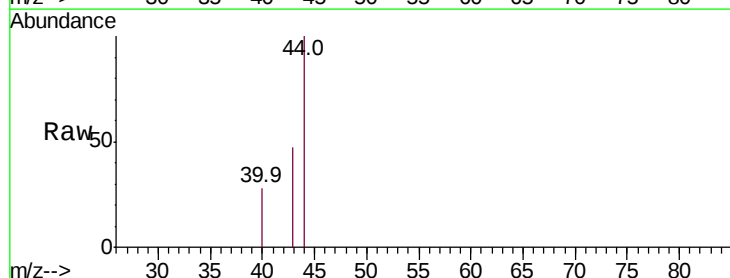
Acq: 28 May 2019 9:30

Tgt Ion: 43 Resp: 1166

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

600

500

400

300

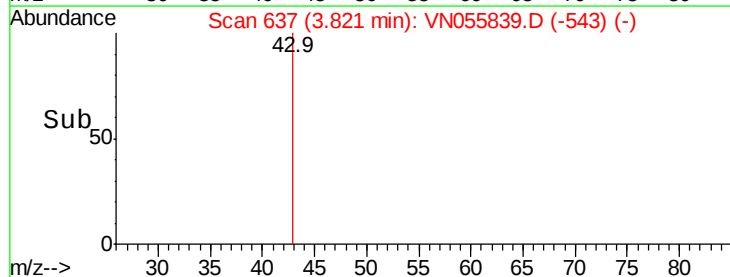
200

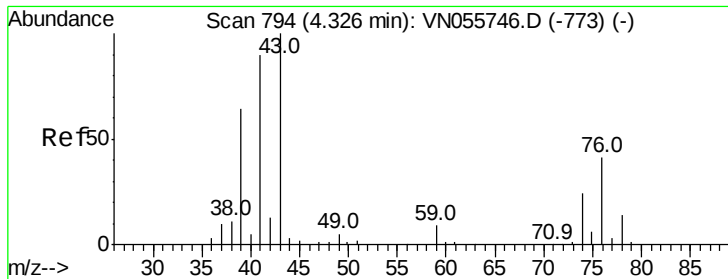
100

0

3.75 3.80 3.85

Time-->





#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

MSVOA_N

ClientSampled :

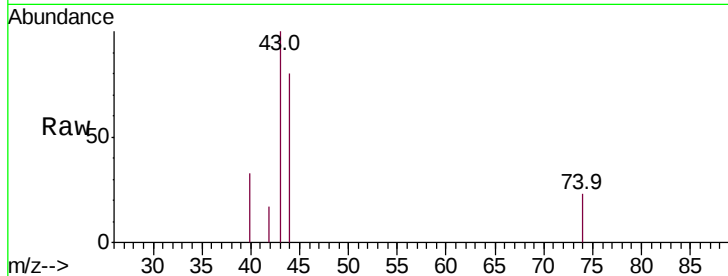
VN0528MBL01

Tot Ion: 43 Resp: 3188

Ion Ratio Lower Upper

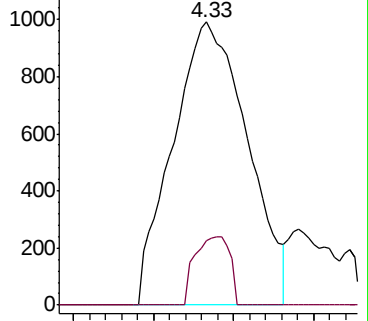
43 100

74 11.2 19.3 28.9#

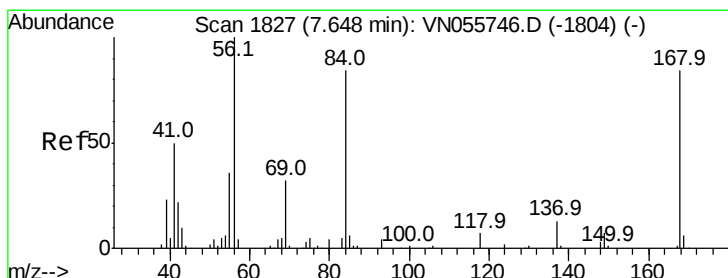
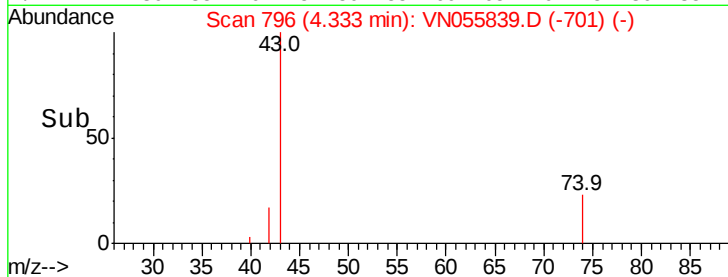


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



Time--> 4.25 4.30 4.35 4.40



#31

Cyclohexane

Concen: 0.916 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

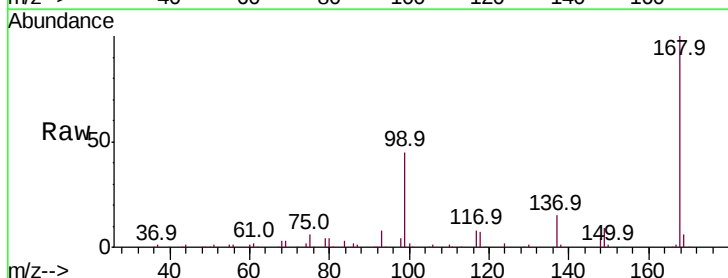
Tgt Ion: 56 Resp: 5707

Ion Ratio Lower Upper

56 100

69 188.3 25.6 38.4#

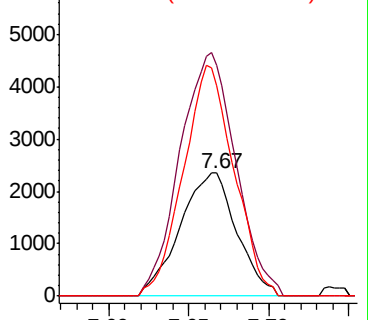
84 171.4 67.4 101.0#



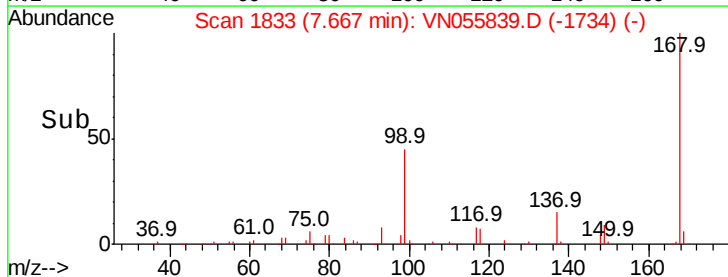
Abundance Ion 56.00 (55.70 to 56.70): VN0

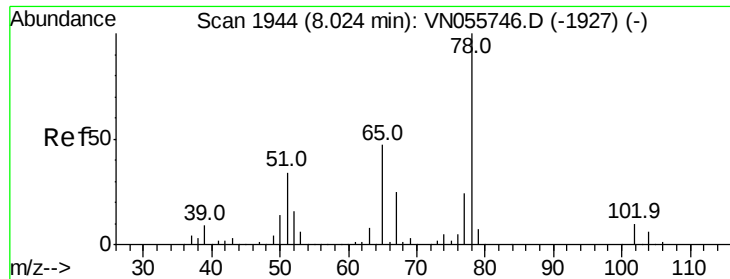
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time--> 7.60 7.65 7.70

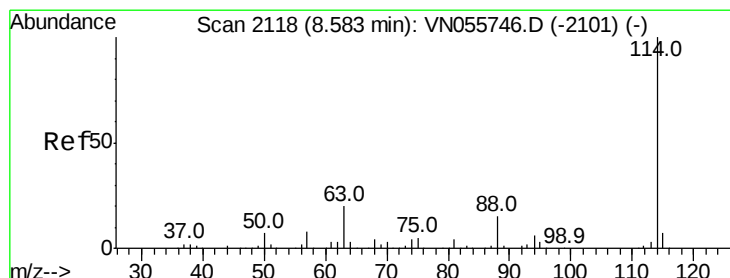
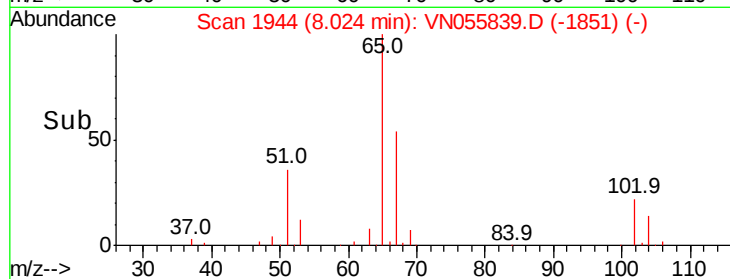
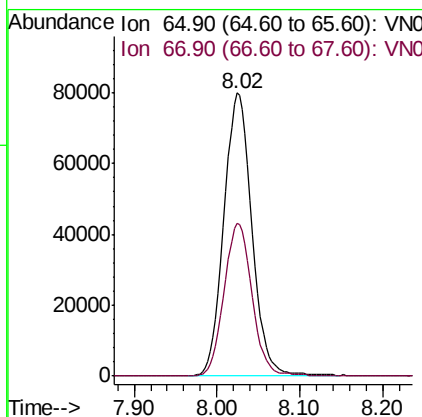
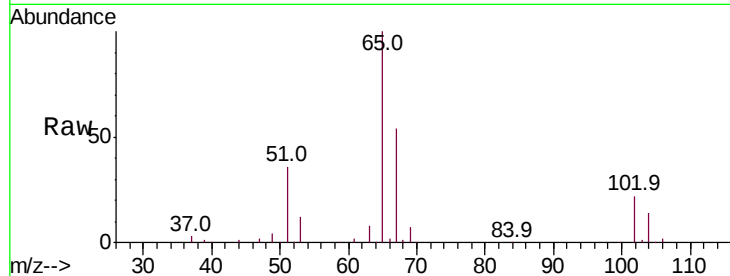




#33
 1,2-Dichloroethane-d4
 Concen: 45.407 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055839.D
 Acq: 28 May 2019 9:30

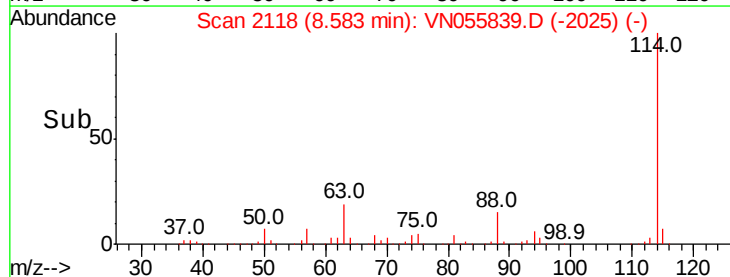
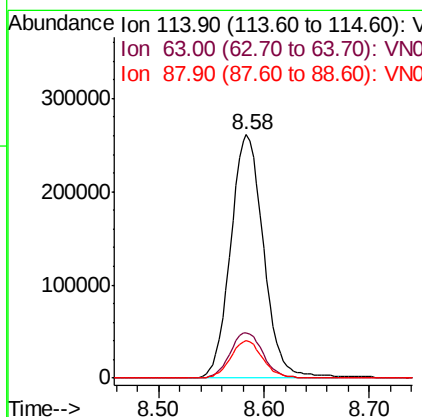
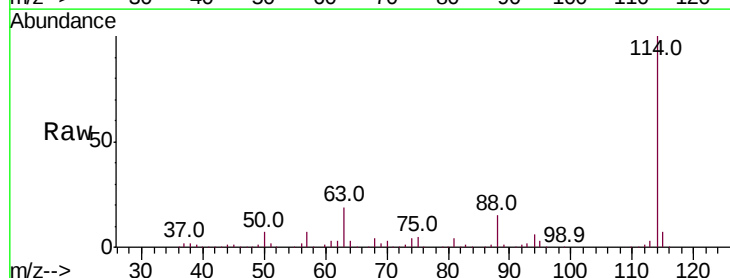
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0528MBL01

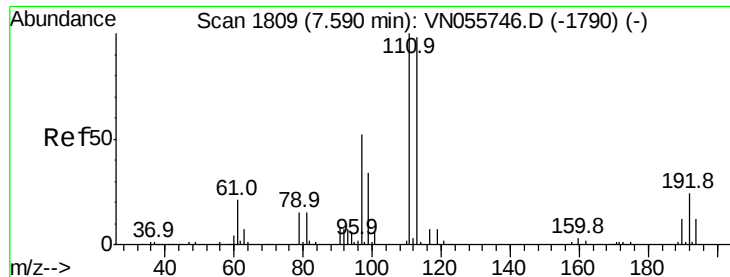
Tot Ion: 65 Resp: 188417
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055839.D
 Acq: 28 May 2019 9:30

Tgt Ion: 114 Resp: 564798
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 15.3 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.053 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VN0528MBL01

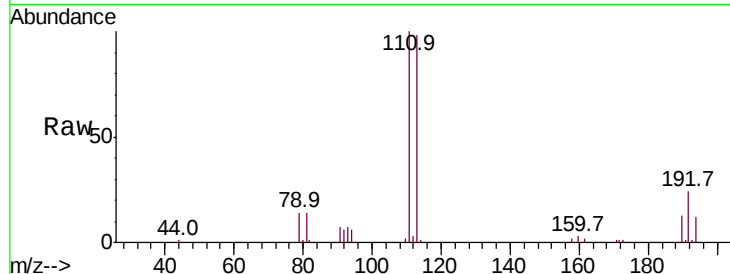
Tot Ion:113 Resp: 171590

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

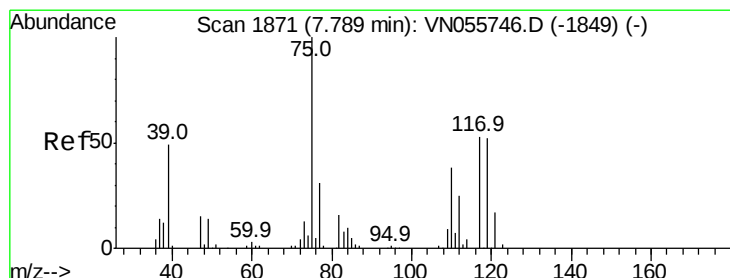
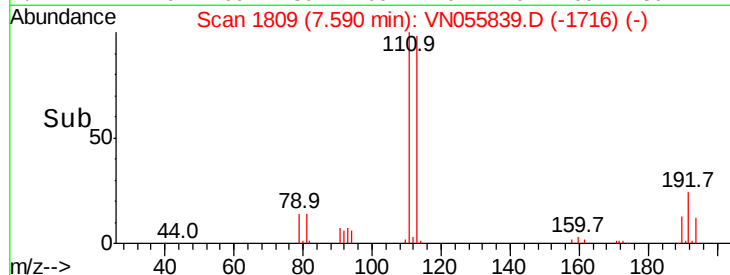
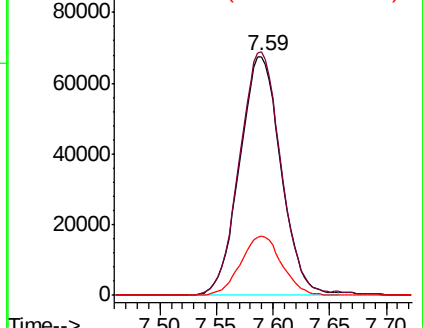
192 24.8 19.5 29.3



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: 4.567 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

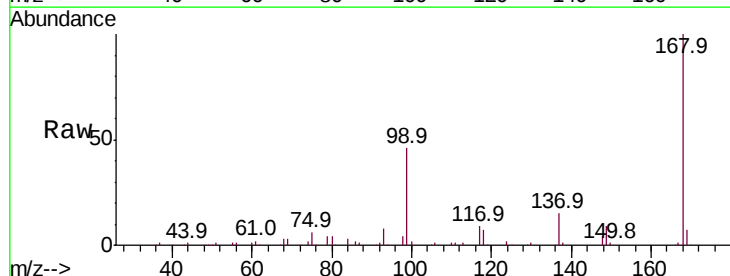
Tgt Ion: 75 Resp: 22478

Ion Ratio Lower Upper

75 100

110 9.4 19.0 57.0#

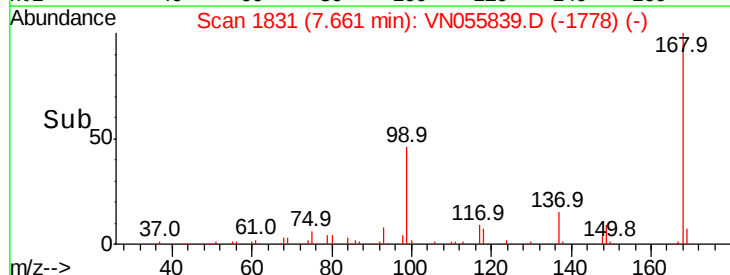
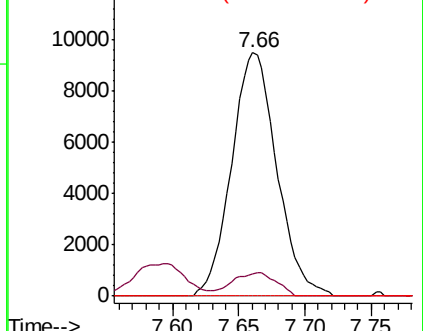
77 0.0 25.1 37.7#

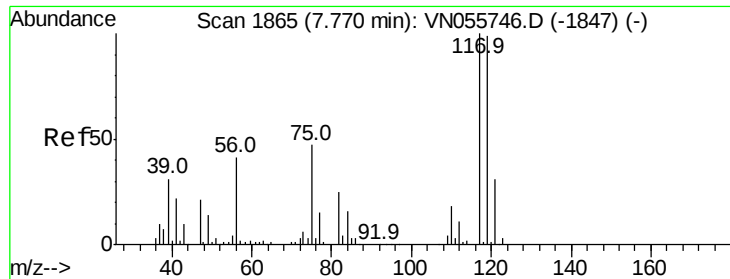


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.446 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

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ClientSampleId :

VN0528MBL01

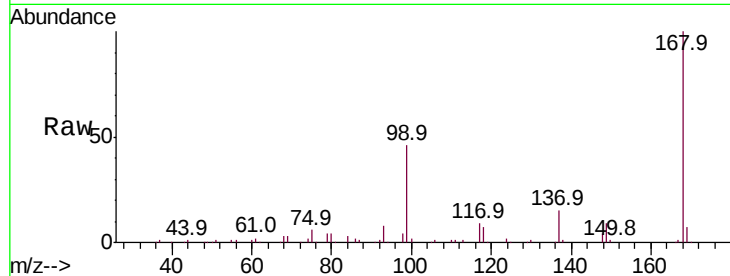
Tot Ion:117 Resp: 33048

Ion Ratio Lower Upper

117 100

119 4.6 79.0 118.6#

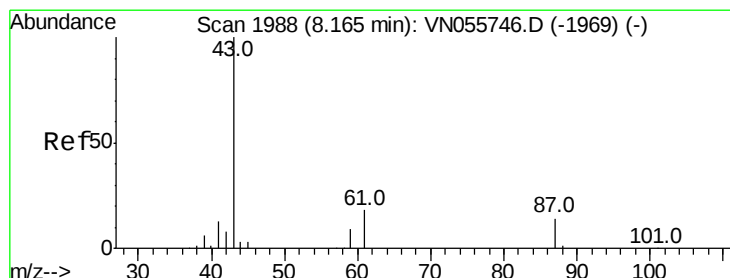
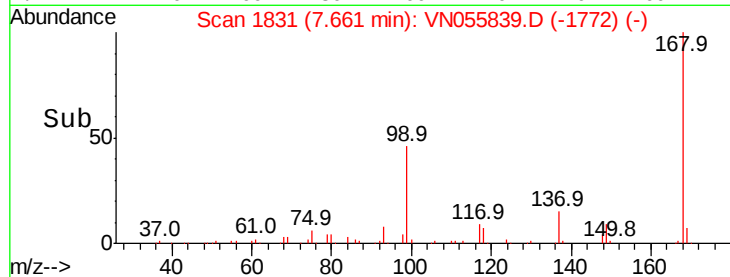
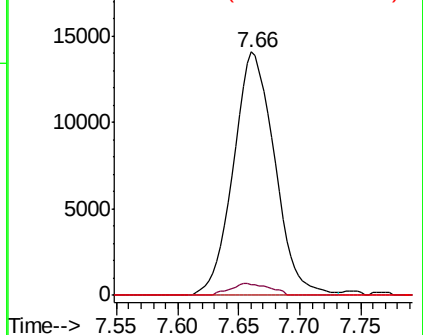
121 0.0 24.7 37.1#



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: 0.909 ug/l

RT: 8.30 min Scan# 2031

Delta R.T. 0.14 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

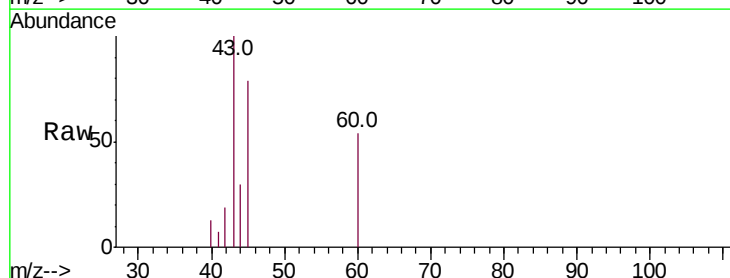
Tgt Ion: 43 Resp: 7267

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

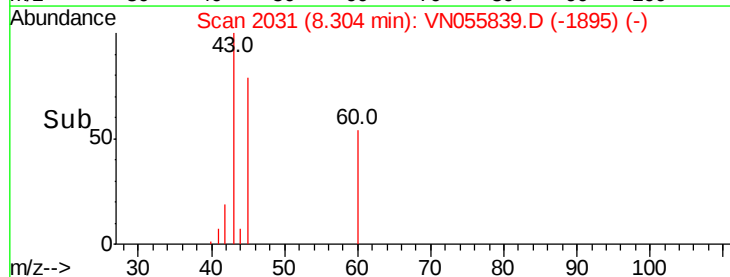
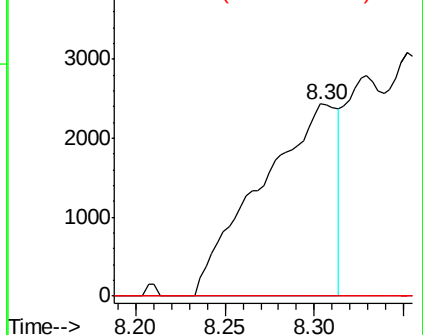
87 0.0 11.4 17.2#

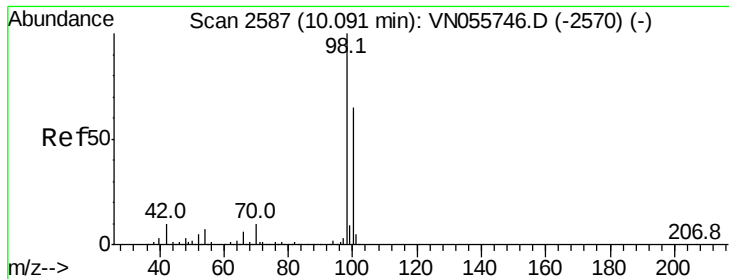


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 49.597 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

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ClientSampleId :

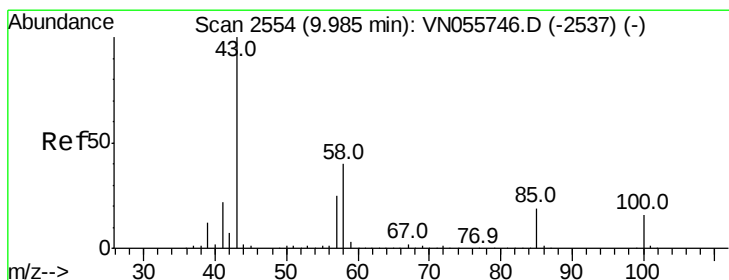
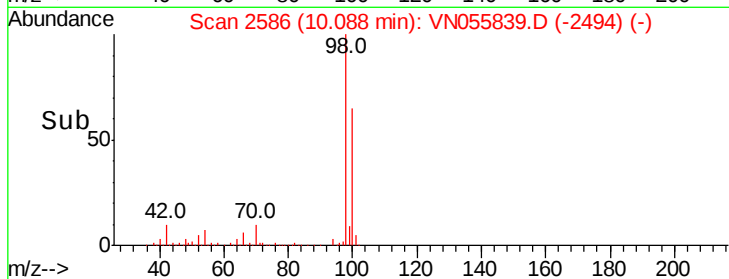
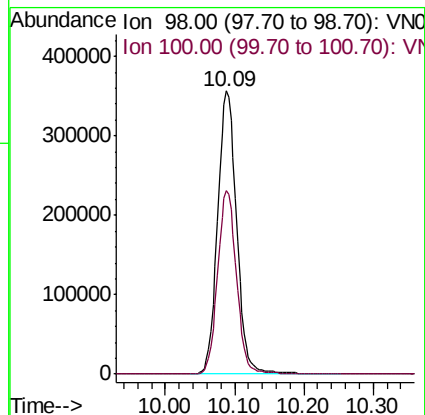
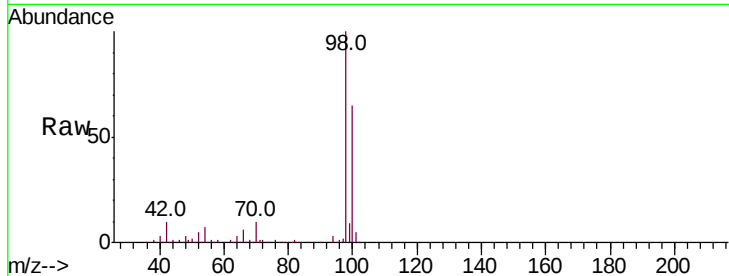
VN0528MBL01

Tot Ion: 98 Resp: 679349

Ion Ratio Lower Upper

98 100

100 64.5 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 0.228 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055839.D

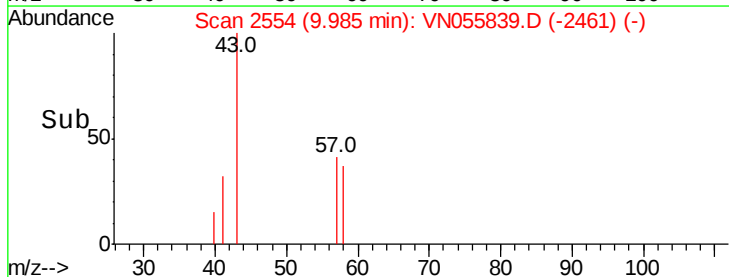
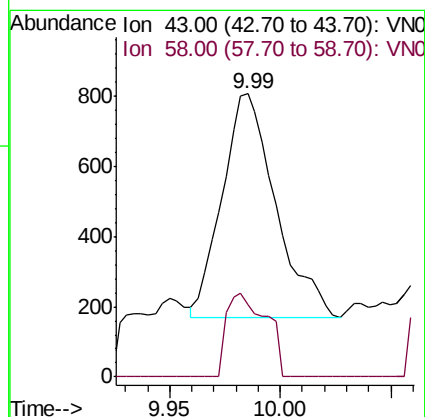
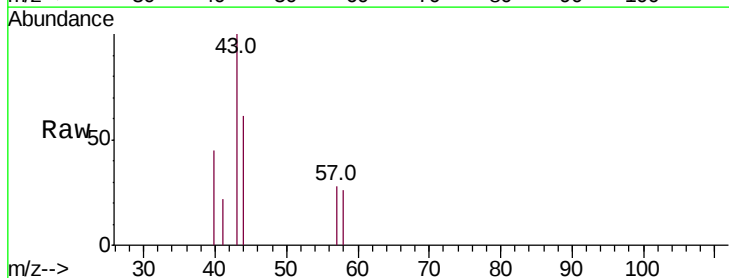
Acq: 28 May 2019 9:30

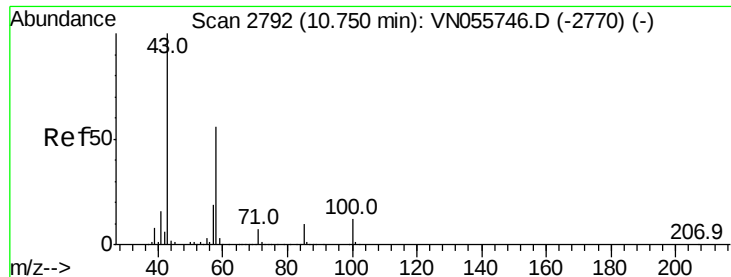
Tgt Ion: 43 Resp: 1076

Ion Ratio Lower Upper

43 100

58 27.6 32.1 48.1#

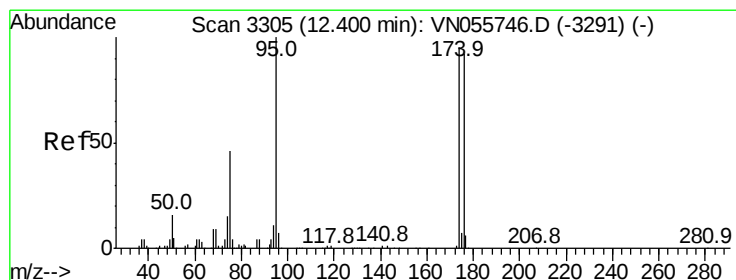
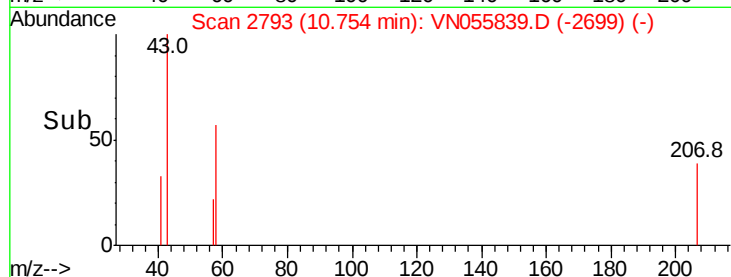
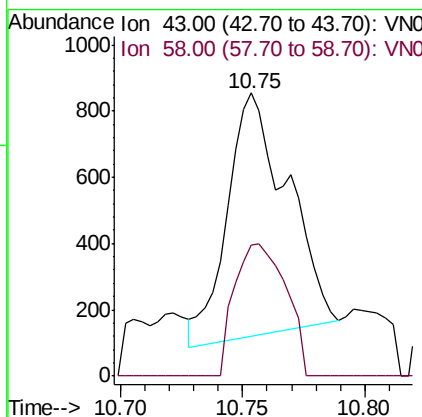
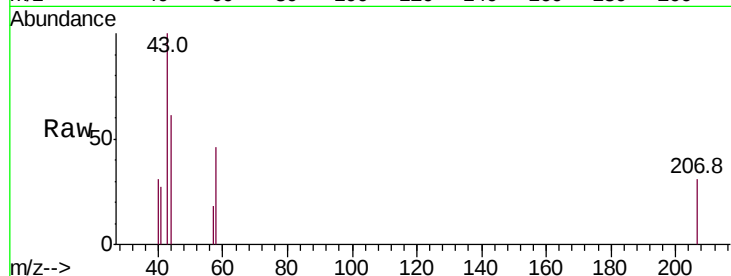




#59
2-Hexanone
Concen: 0.377 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055839.D
Acq: 28 May 2019 9:30

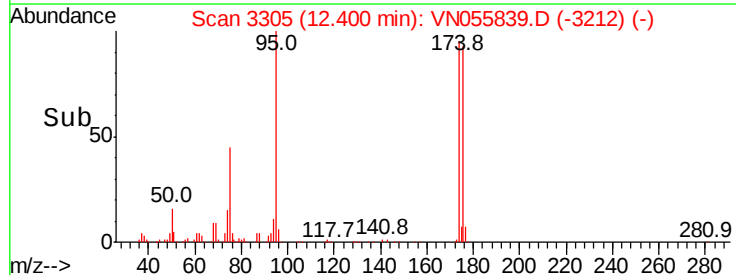
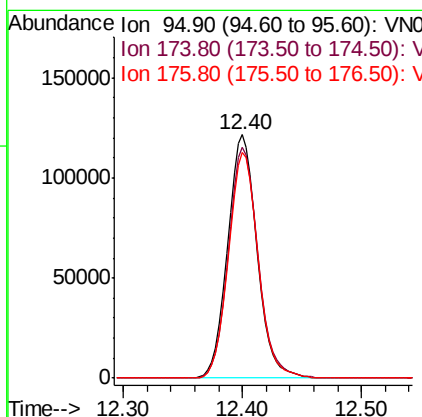
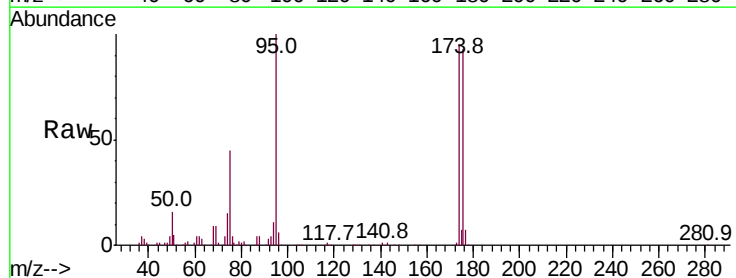
Instrument :
MSVOA_N
ClientSampled :
VN0528MBL01

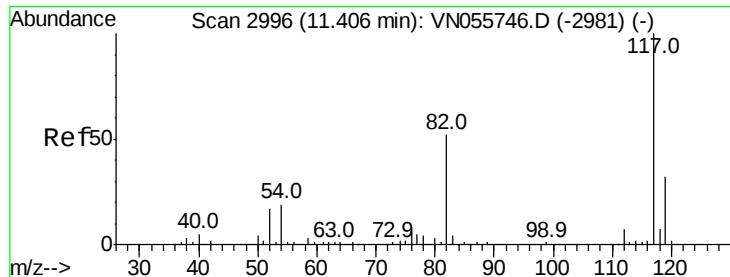
Tot Ion: 43 Resp: 1261
Ion Ratio Lower Upper
43 100
58 46.2 28.2 84.7



#62
4-Bromofluorobenzene
Concen: 44.275 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055839.D
Acq: 28 May 2019 9:30

Tgt Ion: 95 Resp: 207944
Ion Ratio Lower Upper
95 100
174 95.7 0.0 191.0
176 93.4 0.0 185.2

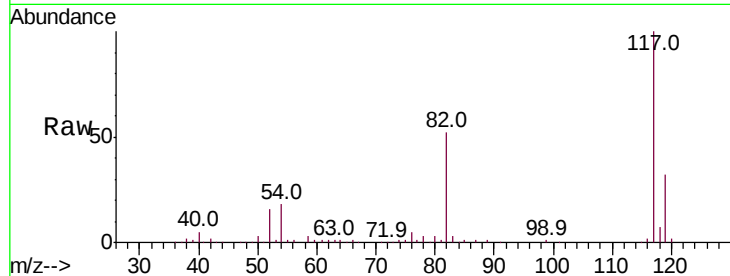




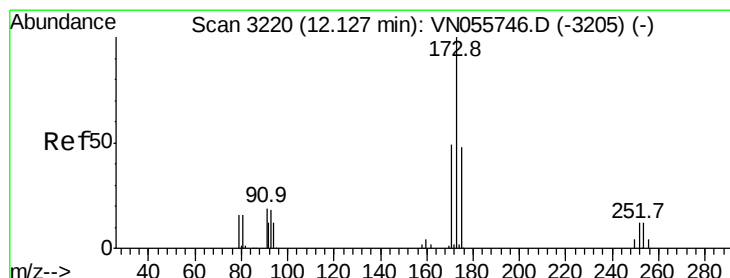
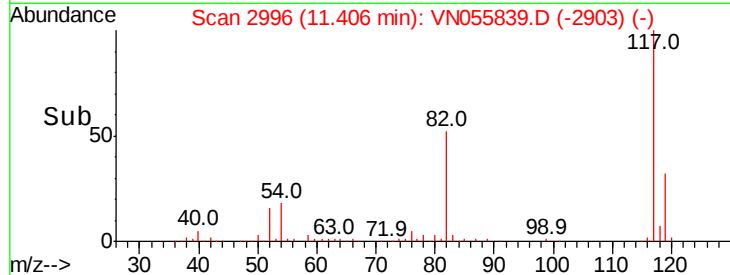
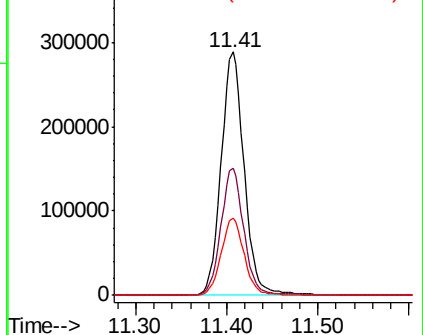
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055839.D
Acq: 28 May 2019 9:30

Instrument :
MSVOA_N
ClientSampleId :
VN0528MBL01

Tot Ion:117 Resp: 506661
Ion Ratio Lower Upper
117 100
82 52.2 41.8 62.8
119 31.7 25.4 38.0

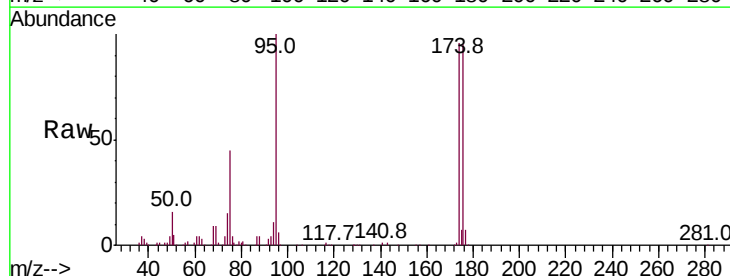


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

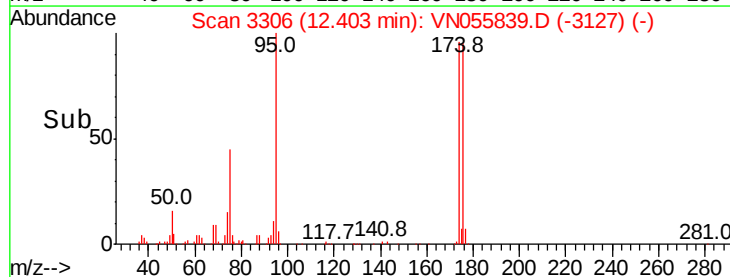
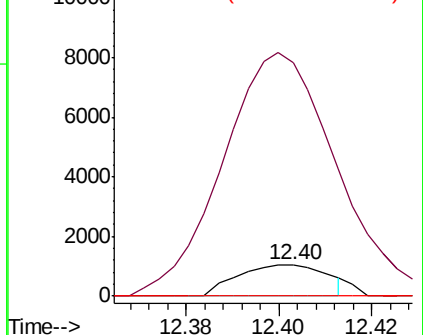


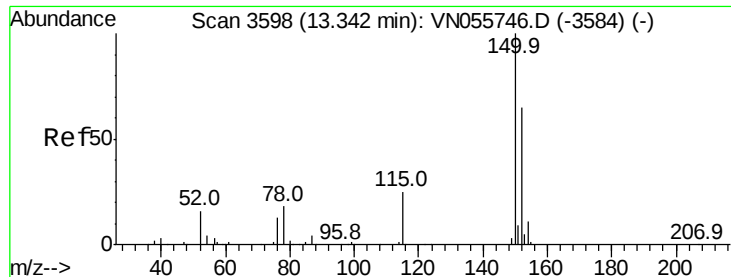
#71
Bromoform
Concen: 0.408 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055839.D
Acq: 28 May 2019 9:30

Tgt Ion:173 Resp: 1408
Ion Ratio Lower Upper
173 100
175 871.8 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: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

MSVOA_N

ClientSampled :

VN0528MBL01

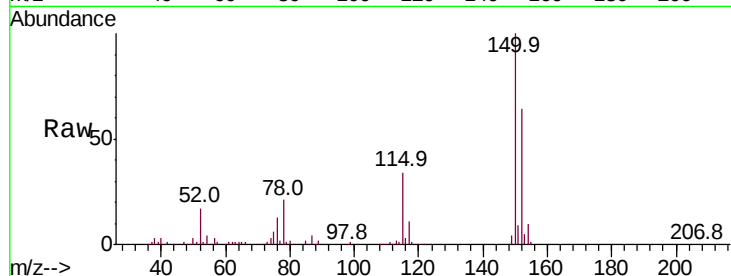
Tot Ion:152 Resp: 164034

Ion Ratio Lower Upper

152 100

115 53.4 27.0 81.0

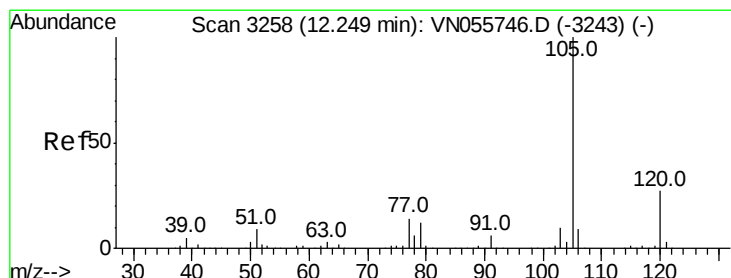
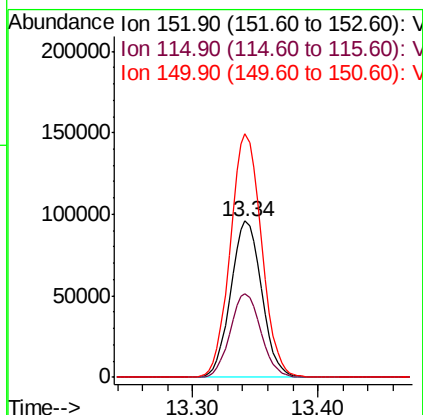
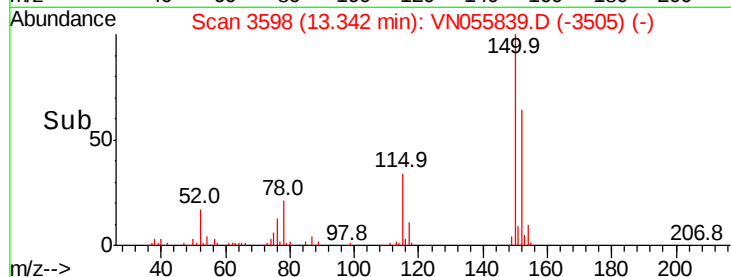
150 157.6 0.0 343.2



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# 3257

Delta R.T. -0.00 min

Lab File: VN055839.D

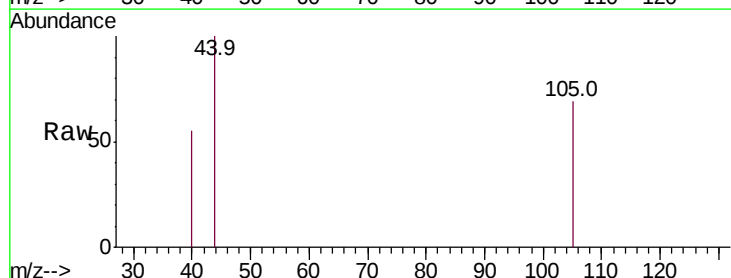
Acq: 28 May 2019 9:30

Tgt Ion:105 Resp: 650

Ion Ratio Lower Upper

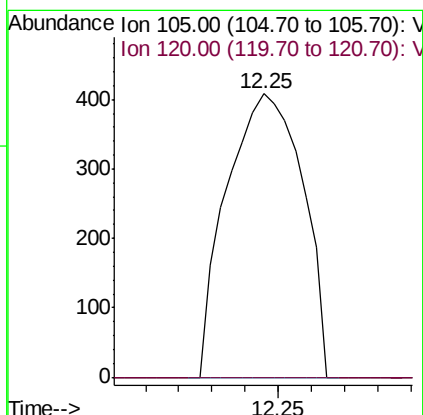
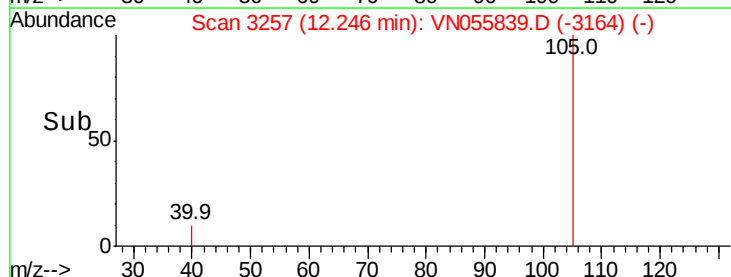
105 100

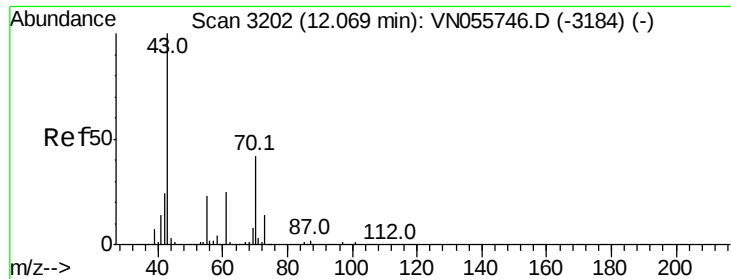
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VN0528MBL01

Tot Ion: 43 Resp: 899

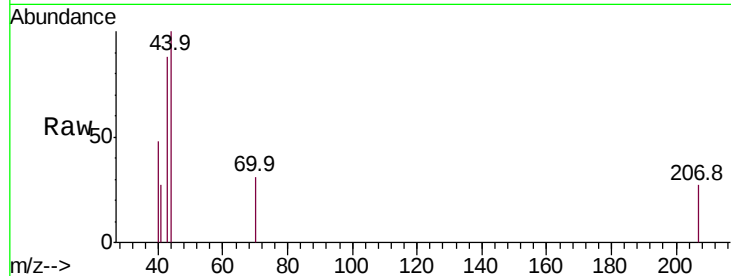
Ion Ratio Lower Upper

43 100

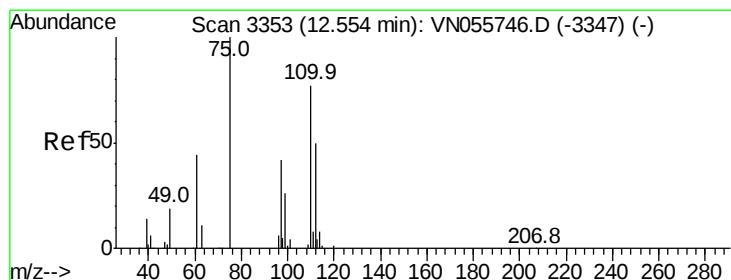
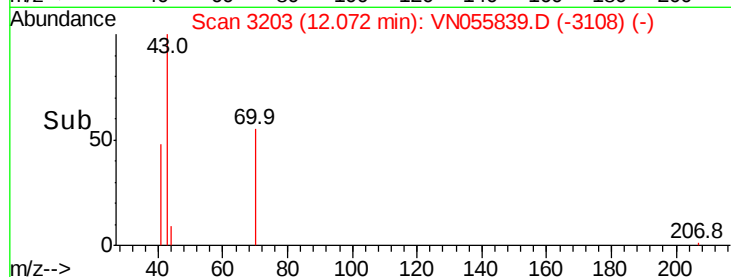
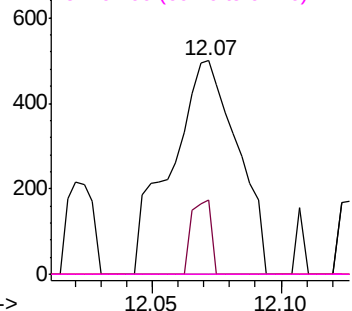
70 10.5 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 32.339 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055839.D

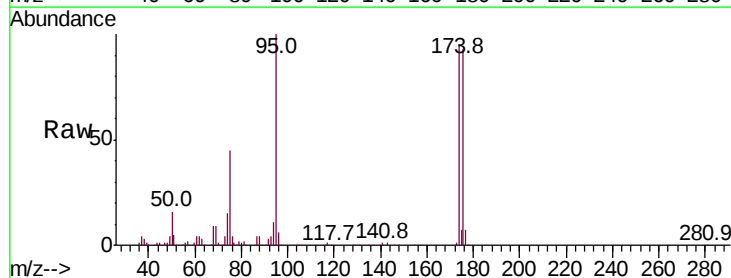
Acq: 28 May 2019 9:30

Tgt Ion: 75 Resp: 94482

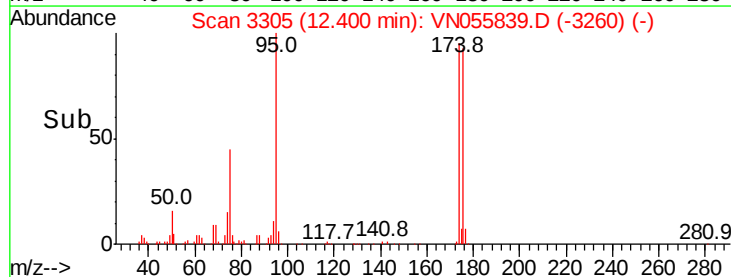
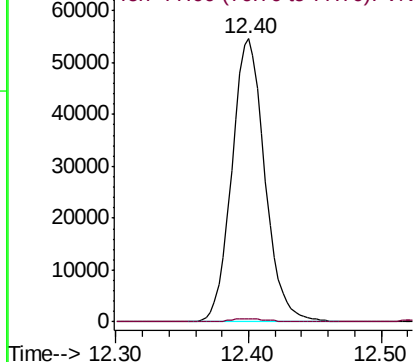
Ion Ratio Lower Upper

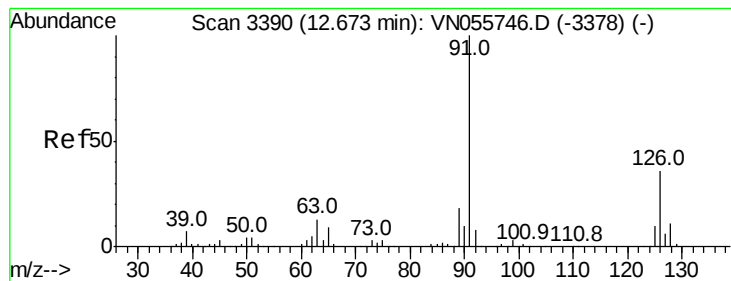
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

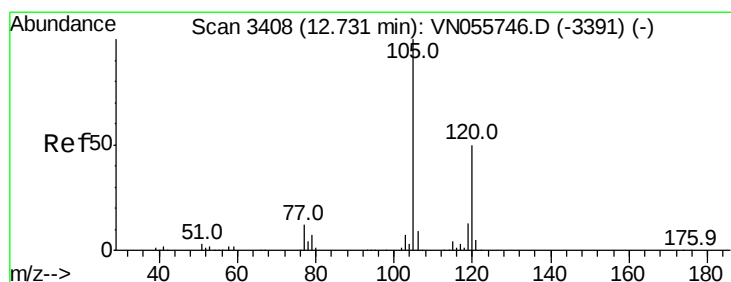
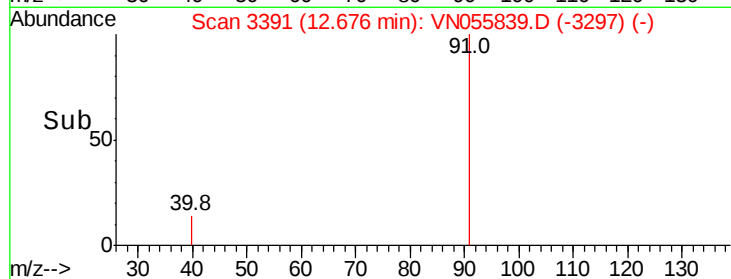
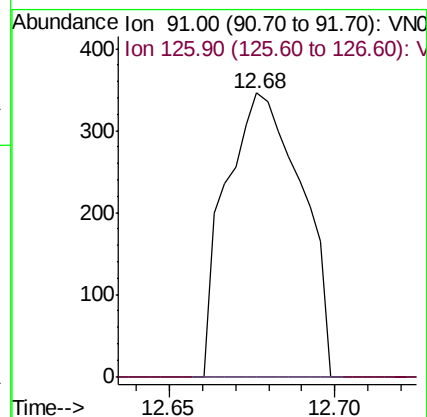
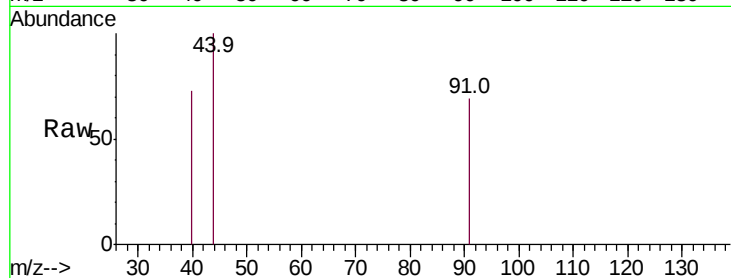
VN0528MBL01

Tot Ion: 91 Resp: 551

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055839.D

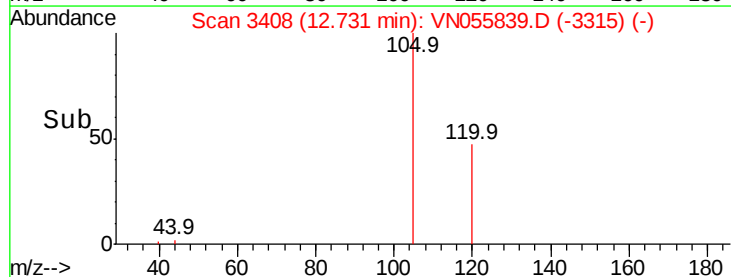
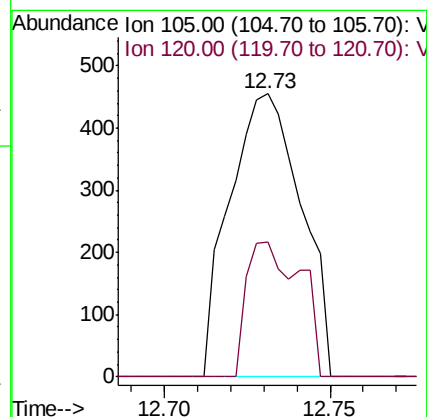
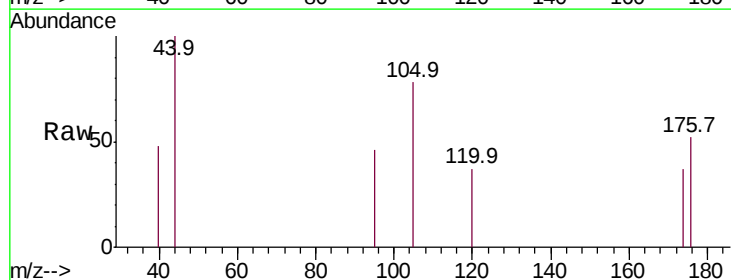
Acq: 28 May 2019 9:30

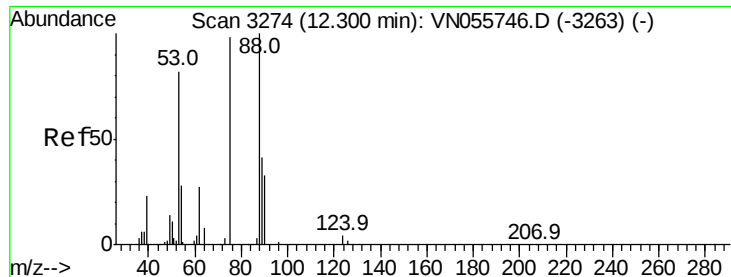
Tgt Ion: 105 Resp: 685

Ion Ratio Lower Upper

105 100

120 35.6 24.7 74.1

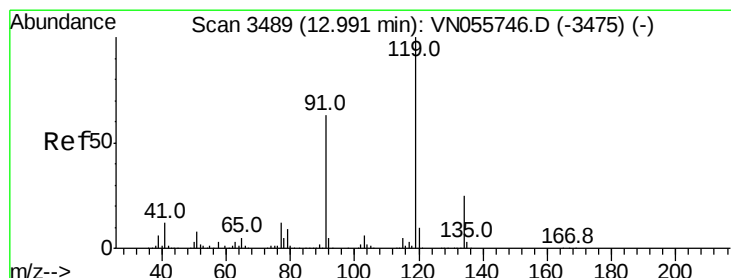
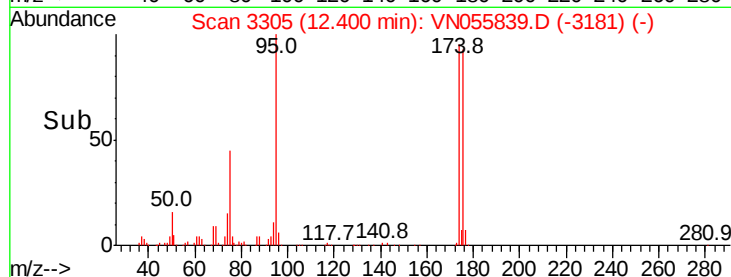
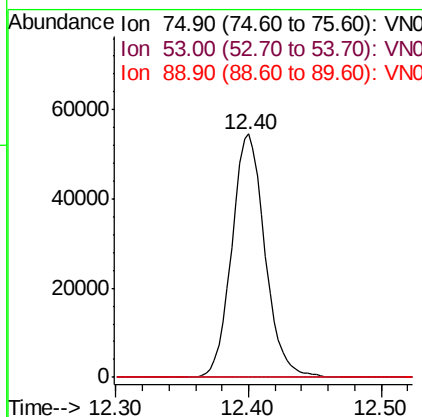
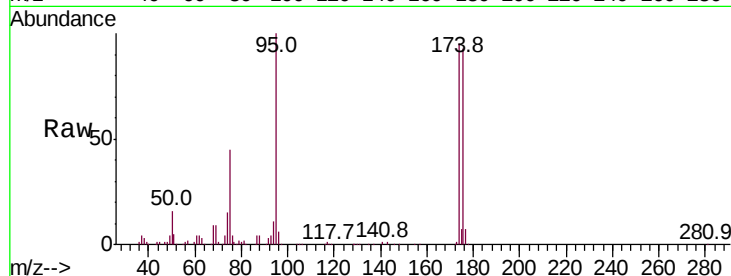




#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.498 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055839.D
 Acq: 28 May 2019 9:30

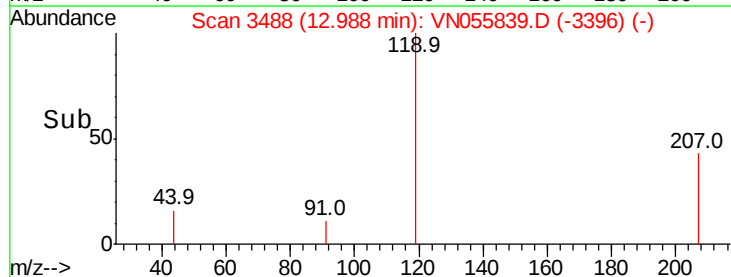
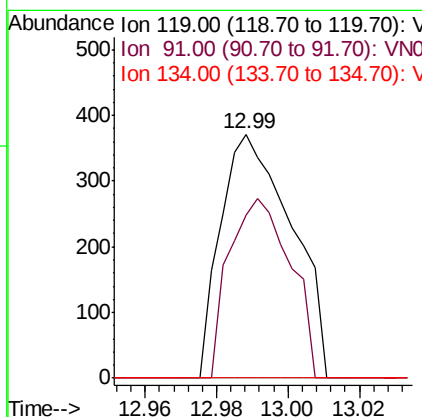
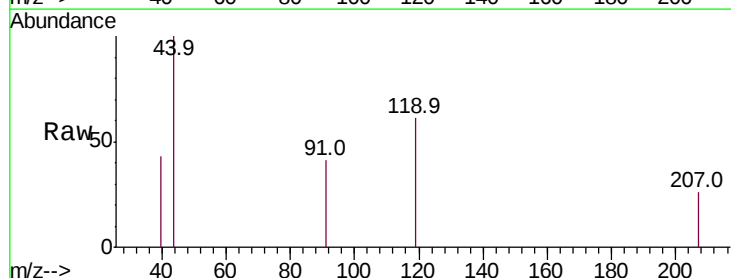
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0528MBL01

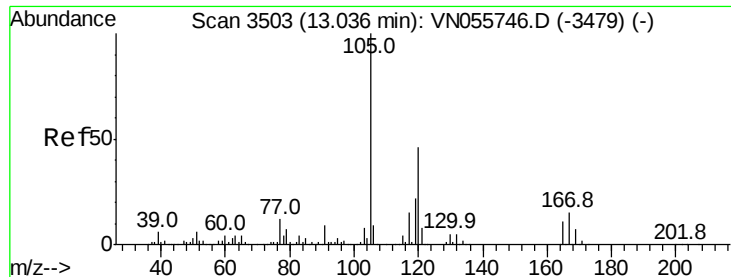
Tot Ion: 75 Resp: 94482
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN055839.D
 Acq: 28 May 2019 9:30

Tgt Ion: 119 Resp: 510
 Ion Ratio Lower Upper
 119 100
 91 63.5 30.9 92.8
 134 0.0 13.3 39.8#

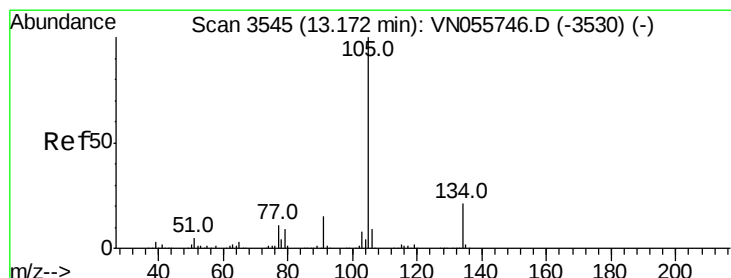
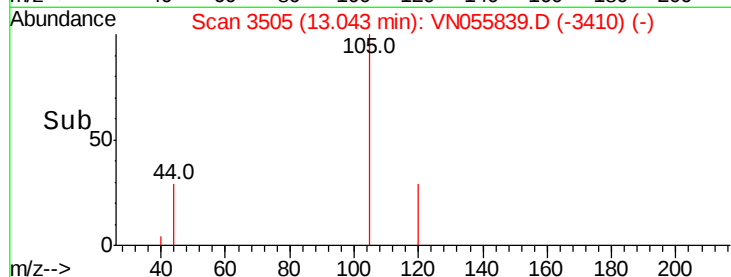
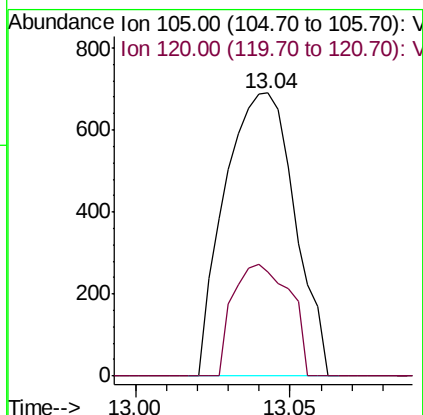
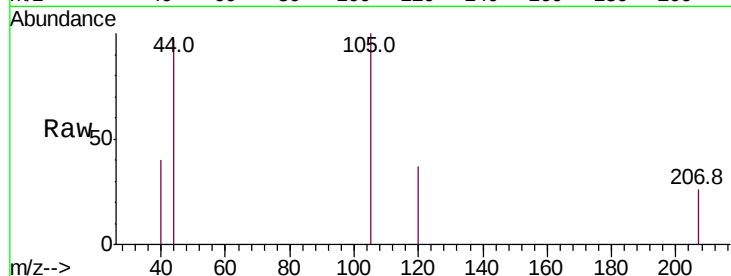




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.01 min
 Lab File: VN055839.D
 Acq: 28 May 2019 9:30

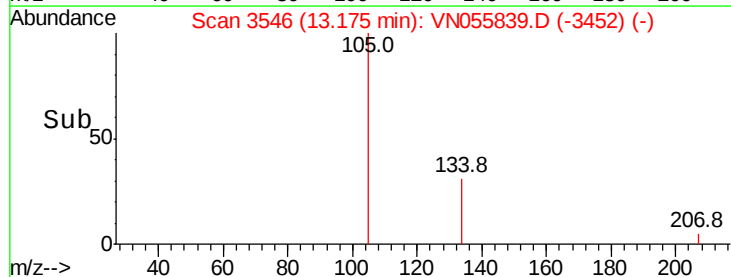
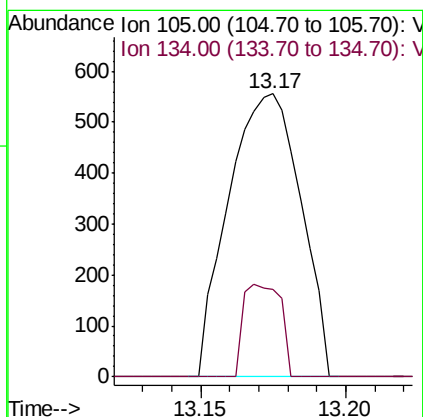
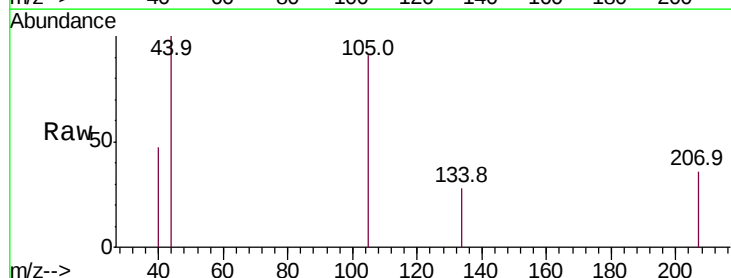
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0528MBL01

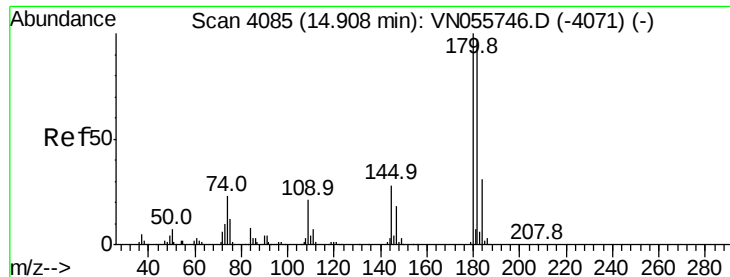
Tot Ion:105 Resp: 1085
 Ion Ratio Lower Upper
 105 100
 120 32.3 23.0 69.0



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN055839.D
 Acq: 28 May 2019 9:30

Tgt Ion:105 Resp: 961
 Ion Ratio Lower Upper
 105 100
 134 17.1 10.4 31.2

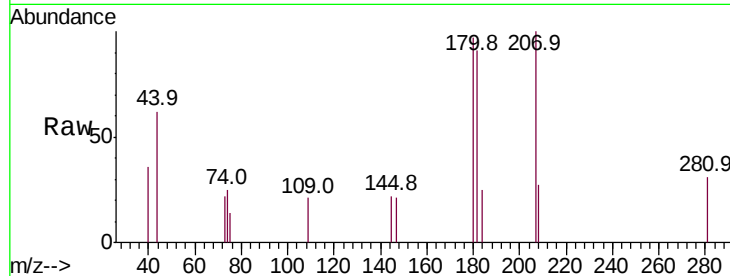




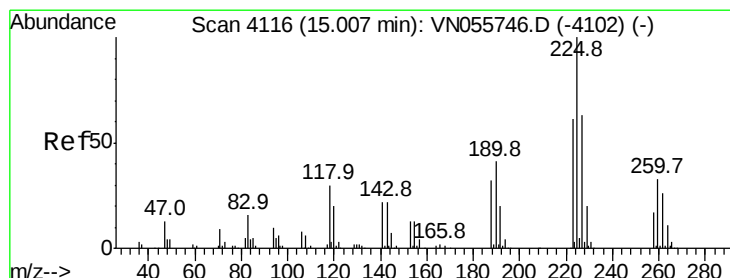
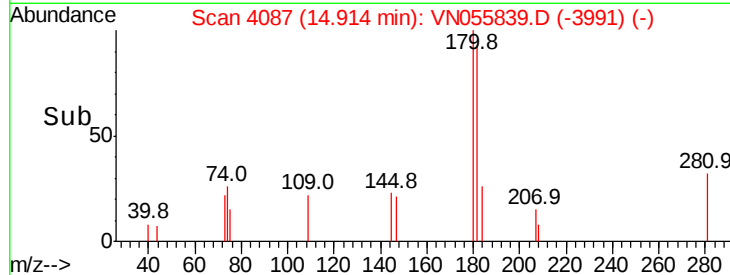
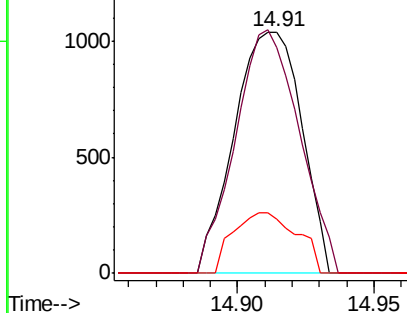
#93
 1,2,4-Trichlorobenzene
 Concen: 4.156 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055839.D
 Acq: 28 May 2019 9:30

Instrument :
 MSVOA_N
 ClientSampled :
 VN0528MBL01

Tot Ion:180 Resp: 1782
 Ion Ratio Lower Upper
 180 100
 182 95.8 48.3 144.9
 145 23.9 14.0 41.9

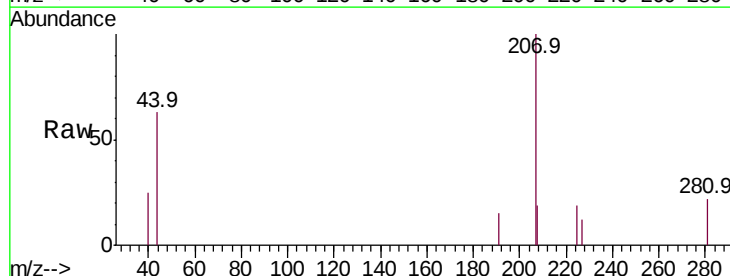


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

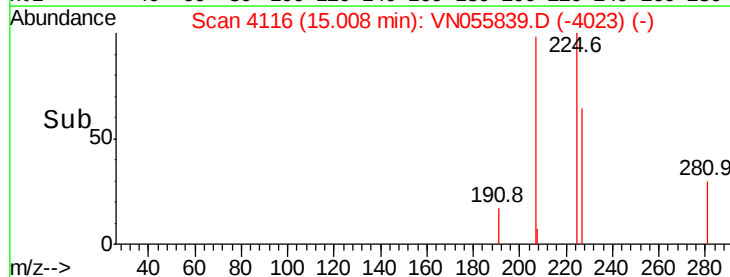
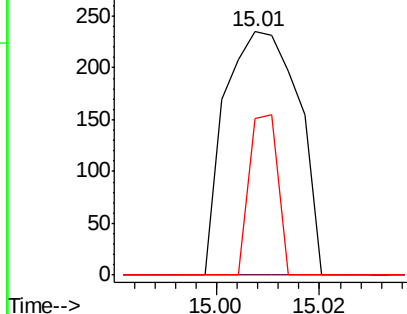


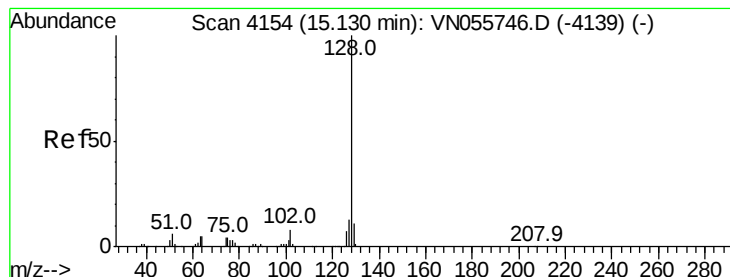
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055839.D
 Acq: 28 May 2019 9:30

Tgt Ion:225 Resp: 231
 Ion Ratio Lower Upper
 225 100
 223 0.0 30.9 92.7#
 227 25.5 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





#95

Naphthalene

Concen: 0.592 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

Instrument :

MSVOA_N

ClientSampleId :

VN0528MBL01

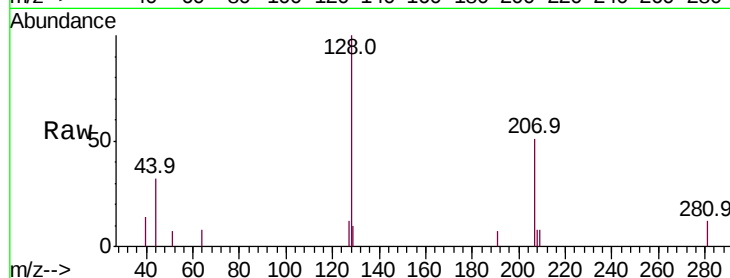
Tot Ion:128 Resp: 4491

Ion Ratio Lower Upper

128 100

127 10.8 10.3 15.5

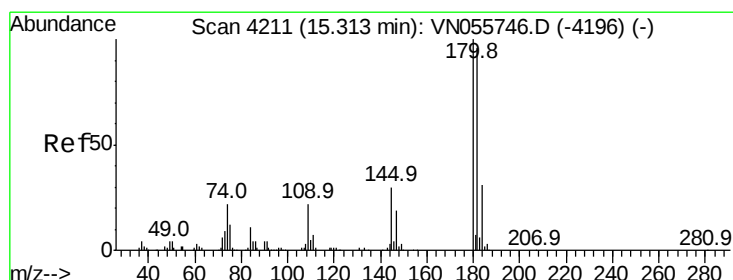
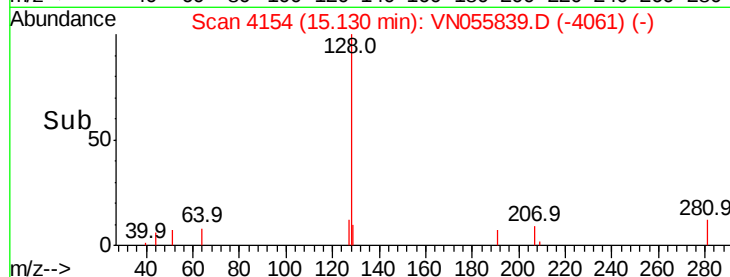
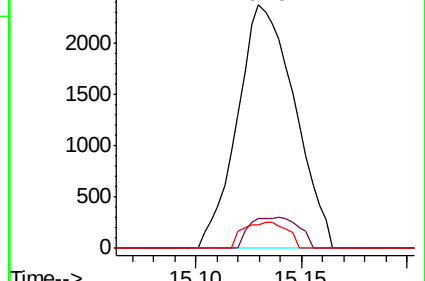
129 8.2 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.742 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055839.D

Acq: 28 May 2019 9:30

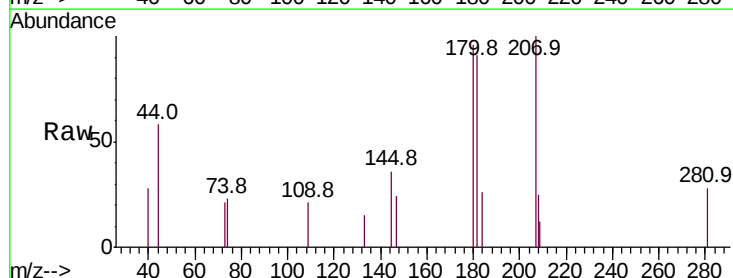
Tgt Ion:180 Resp: 2169

Ion Ratio Lower Upper

180 100

182 107.3 47.9 143.7

145 30.3 14.9 44.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

