

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055844.D
 Acq On : 28 May 2019 11:36
 Operator : JC/SP
 Sample : K3040-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 0444-FIELD-BLANK-1

Quant Time: May 28 17:37:14 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	431202	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	604775	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	547357	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	182645	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	201398	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
35) Dibromofluoromethane	7.59	113	183285	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
50) Toluene-d8	10.09	98	716821	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
62) 4-Bromofluorobenzene	12.40	95	223889	44.52	ug/l	0.00
Spiked Amount			Recovery	=	89.04%	

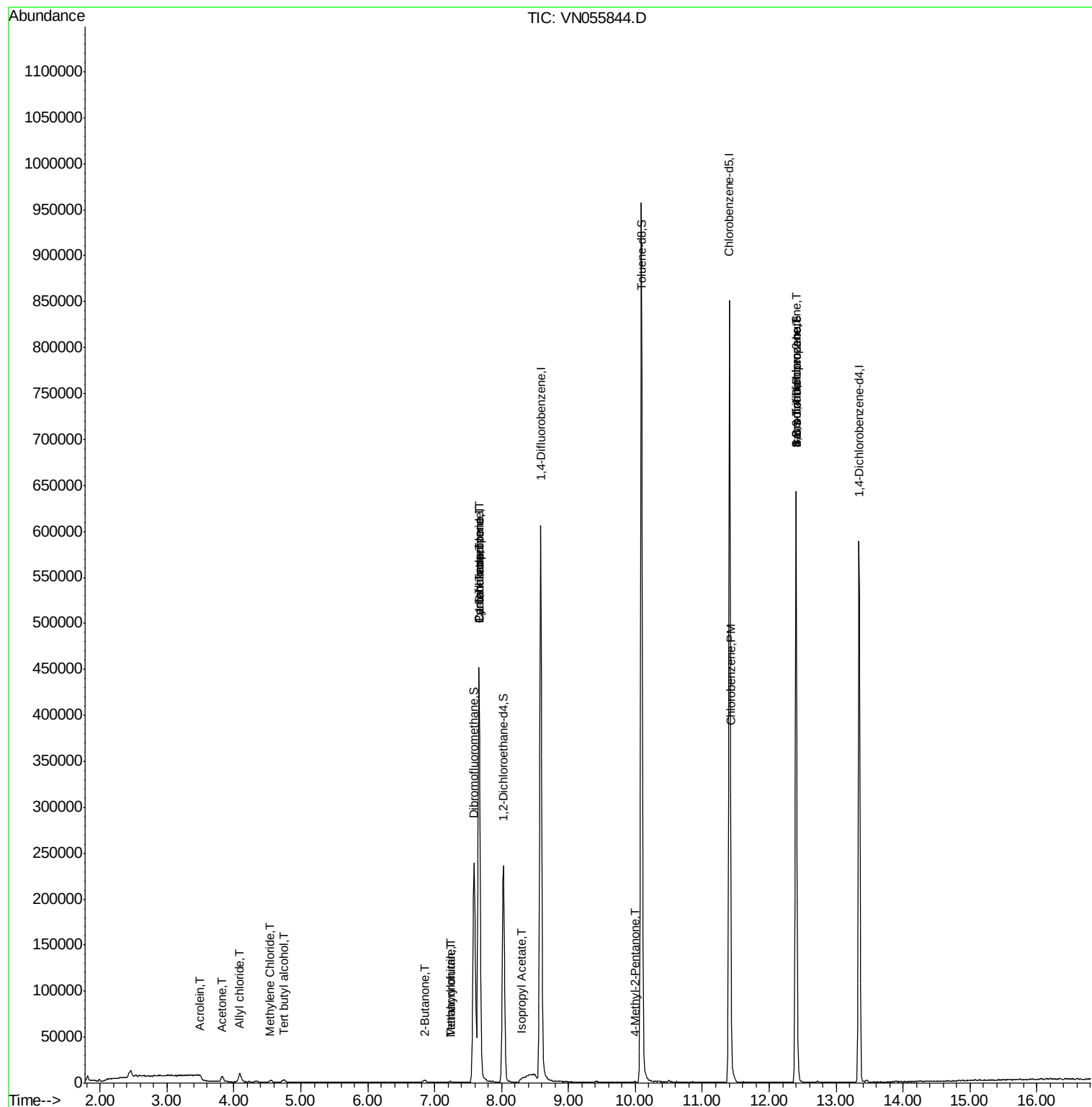
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	2529	2.972	ug/l #	74
13) Acrolein	3.48	56	217	0.356	ug/l #	1
14) Allyl chloride	4.10	41	1665	0.265	ug/l #	62
16) Acetone	3.82	43	11110	5.676	ug/l	96
18) Methyl Acetate	4.34	43	2216	Below Cal	#	61
20) Methylene Chloride	4.54	84	1316	0.310	ug/l #	84
25) 2-Butanone	6.85	43	774	0.283	ug/l #	47
29) Tetrahydrofuran	7.23	42	914	0.528	ug/l #	57
31) Cyclohexane	7.67	56	6271	0.938	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24908	4.726	ug/l #	47
38) Carbon Tetrachloride	7.66	117	35143	6.402	ug/l #	15
41) Methacrylonitrile	7.23	41	530	0.206	ug/l #	30
43) Isopropyl Acetate	8.30	43	2919	0.341	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1302	0.258	ug/l #	57
65) Chlorobenzene	11.43	112	2933	0.268	ug/l	95
71) Bromoform	12.40	173	1266	0.340	ug/l #	1
73) Isopropylbenzene	12.40	105	184	Below Cal	#	48
74) N-amyl acetate	12.07	43	105	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	104061	31.951	ug/l #	100
79) 2-Chlorotoluene	12.59	91	101	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	104061	76.658	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	296	Below Cal	#	30
85) sec-Butylbenzene	13.04	105	296	Below Cal	#	55

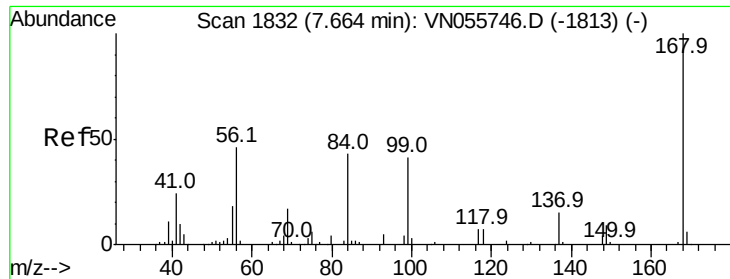
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052819\
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Quant Time: May 28 17:37:14 2019
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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: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

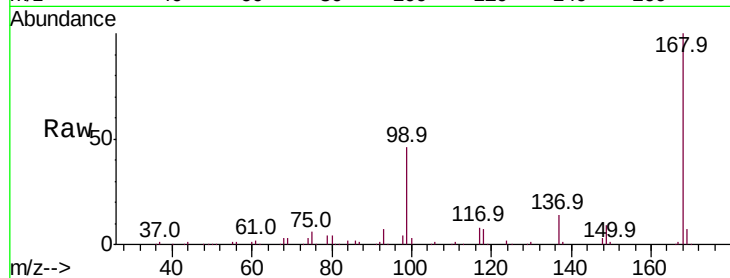
0444-FIELD-BLANK-1

Tot Ion:168 Resp: 431202

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): VN0

7.66

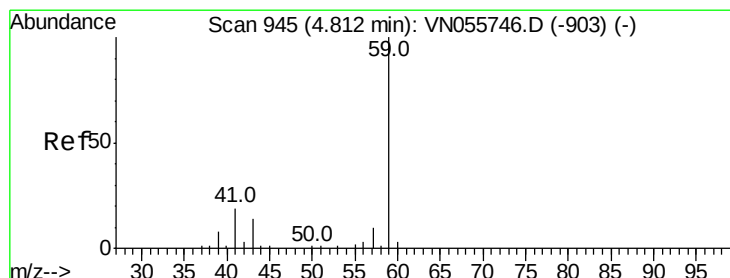
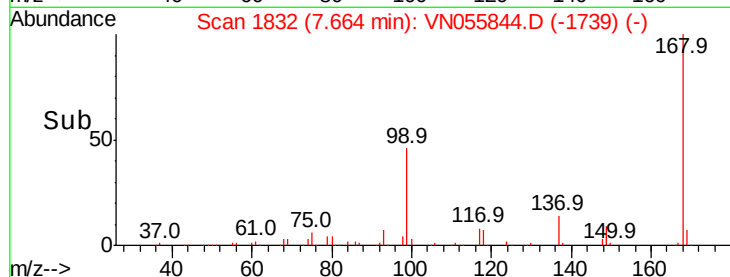
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 2.972 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.07 min

Lab File: VN055844.D

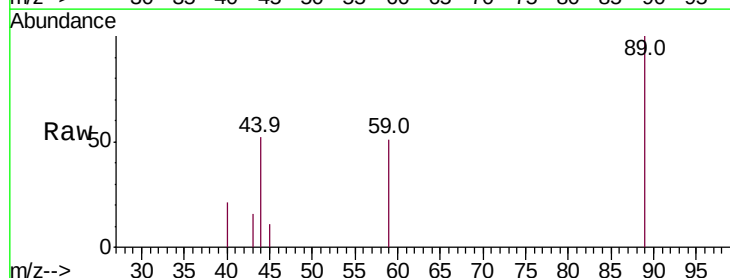
Acq: 28 May 2019 11:36

Tgt Ion: 59 Resp: 2529

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.74

800

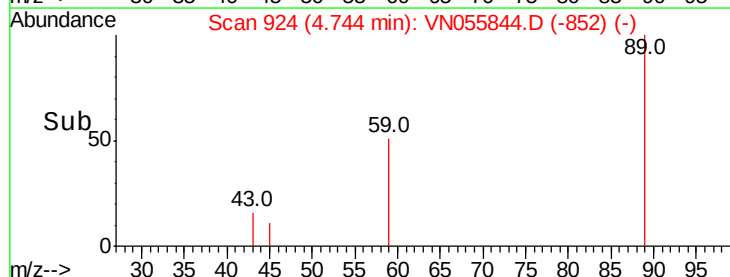
600

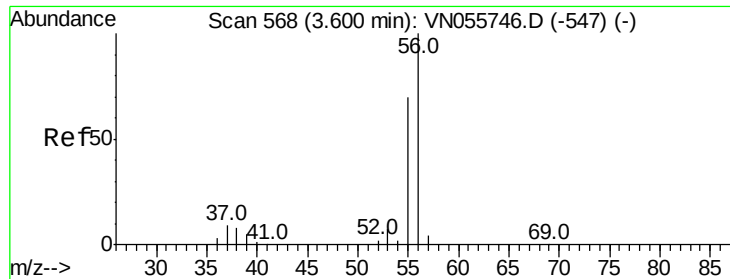
400

200

0

Time--> 4.65 4.70 4.75 4.80

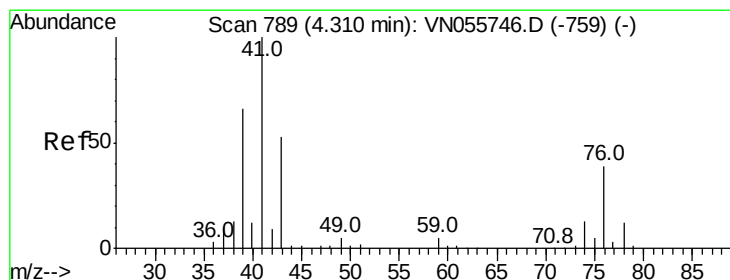
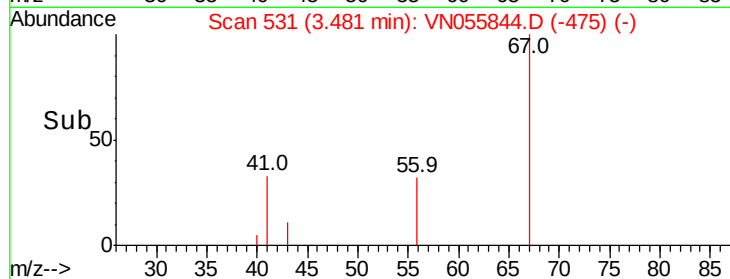
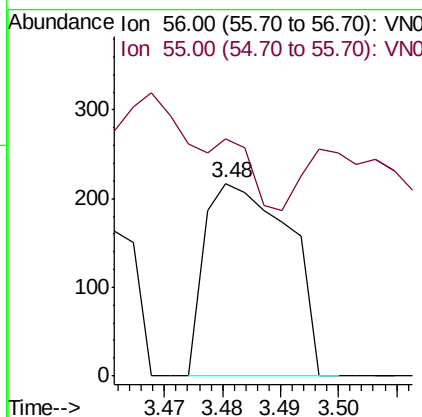
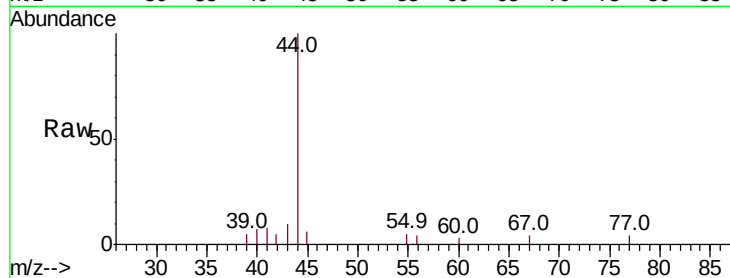




#13
Acrolein
Concen: 0.356 ug/l
RT: 3.48 min Scan# 531
Delta R.T. -0.12 min
Lab File: VN055844.D
Acq: 28 May 2019 11:36

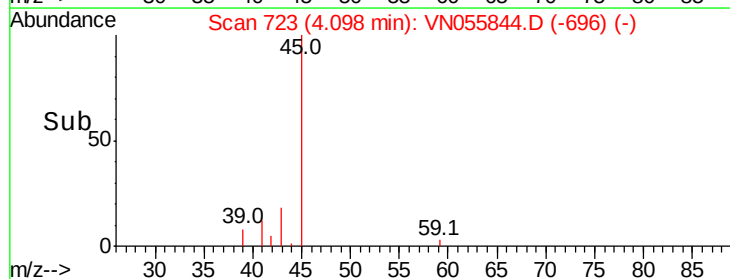
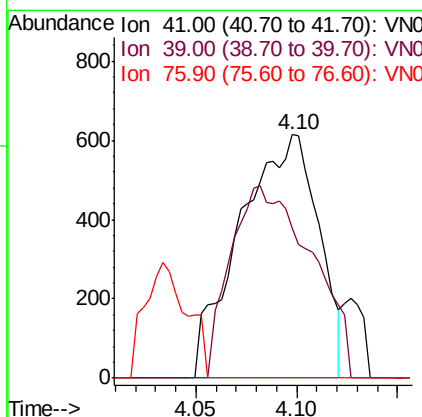
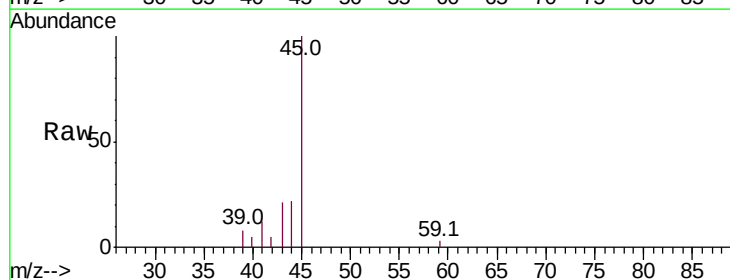
Instrument :
MSVOA_N
ClientSampleId :
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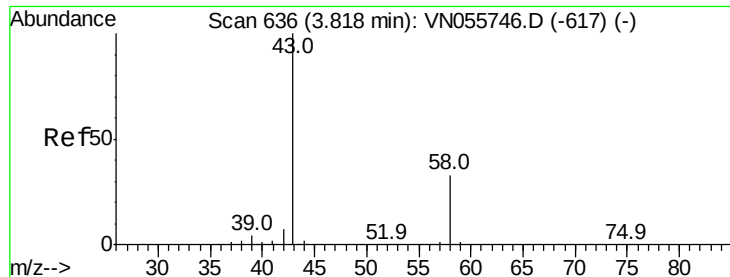
Tot Ion: 56 Resp: 217
Ion Ratio Lower Upper
56 100
55 218.0 55.4 83.2#



#14
Allyl chloride
Concen: 0.265 ug/l
RT: 4.10 min Scan# 723
Delta R.T. -0.21 min
Lab File: VN055844.D
Acq: 28 May 2019 11:36

Tgt Ion: 41 Resp: 1665
Ion Ratio Lower Upper
41 100
39 81.6 50.0 75.0#
76 0.0 28.2 42.2#





#16

Acetone

Concen: 5.676 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

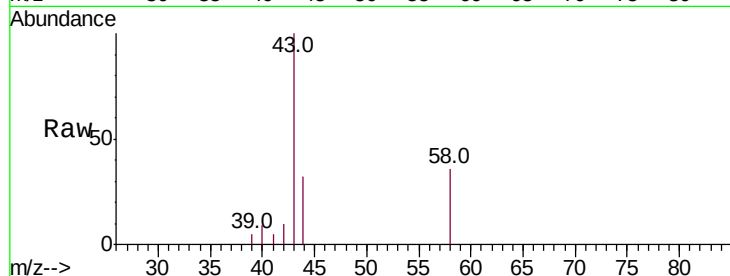
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Tot Ion: 43 Resp: 11110

Ion Ratio Lower Upper

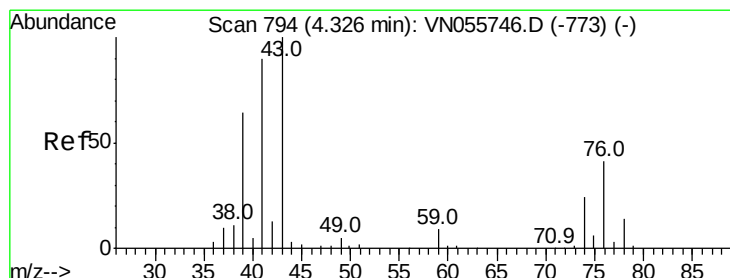
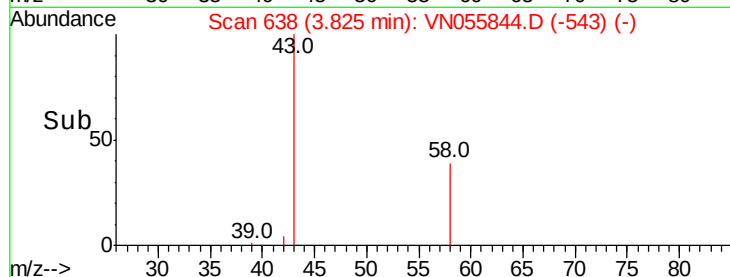
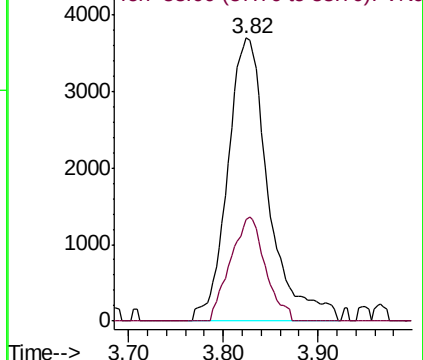
43 100

58 35.7 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055844.D

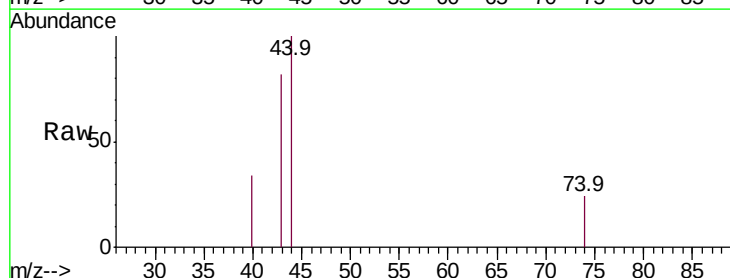
Acq: 28 May 2019 11:36

Tgt Ion: 43 Resp: 2216

Ion Ratio Lower Upper

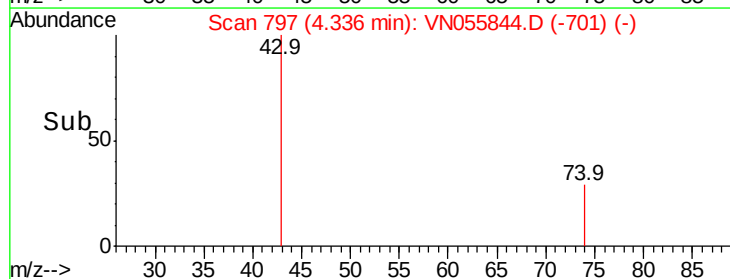
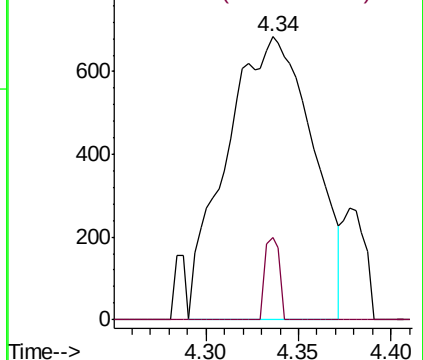
43 100

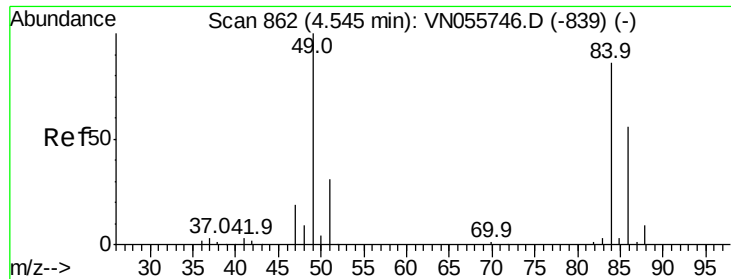
74 4.8 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

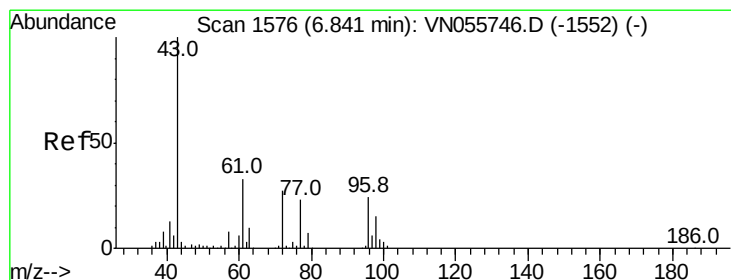
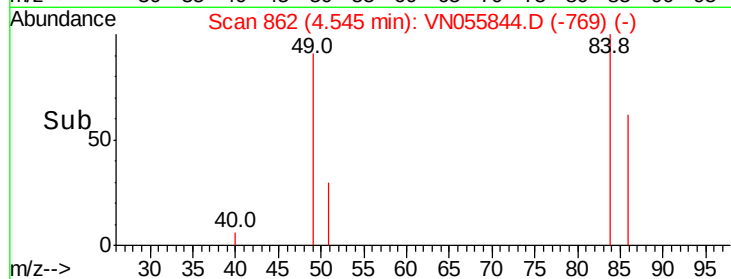
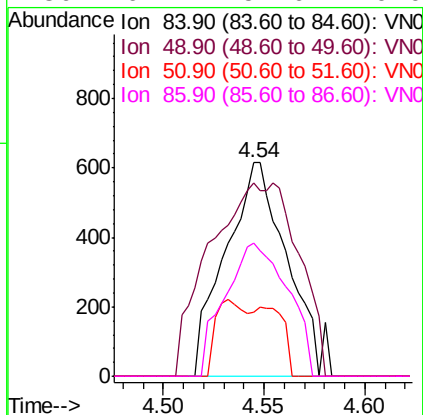
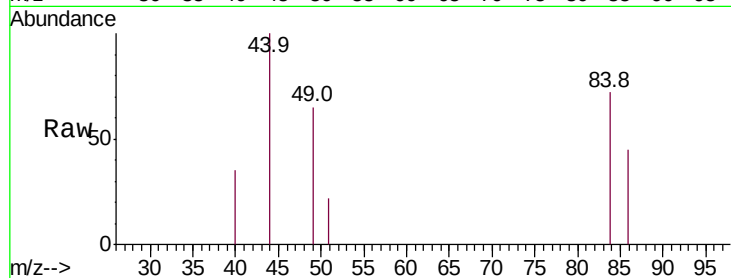




#20
Methvlene Chloride
Concen: 0.310 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN055844.D
Acq: 28 May 2019 11:36

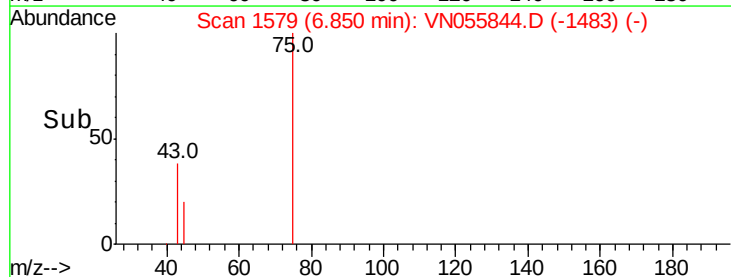
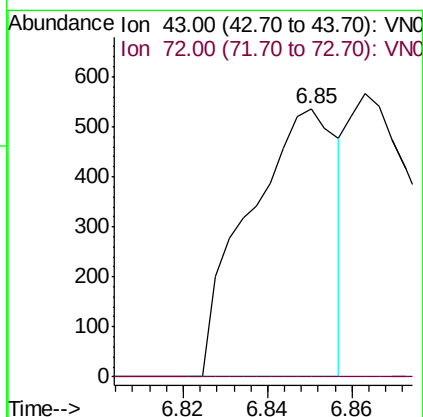
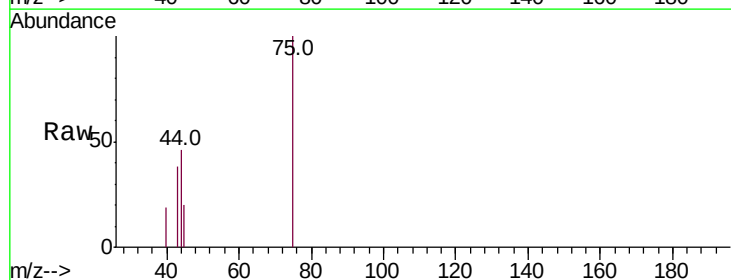
Instrument :
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ClientSampleId :
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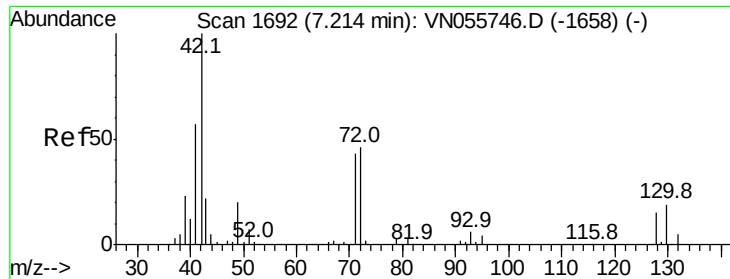
Tot Ion: 84 Resp: 1316
Ion Ratio Lower Upper
84 100
49 90.7 93.5 140.3#
51 30.1 28.6 43.0
86 62.4 52.6 79.0



#25
2-Butanone
Concen: 0.283 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN055844.D
Acq: 28 May 2019 11:36

Tgt Ion: 43 Resp: 774
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#





#29

Tetrahydrofuran

Concen: 0.528 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.02 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

0444-FIELD-BLANK-1

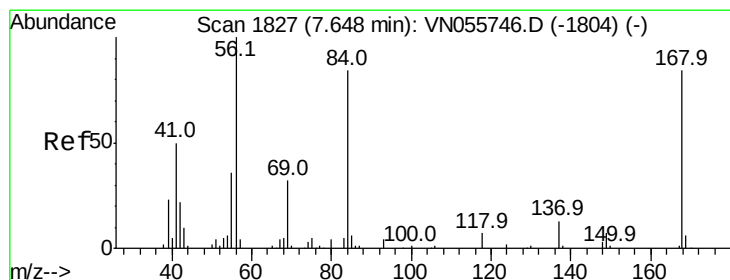
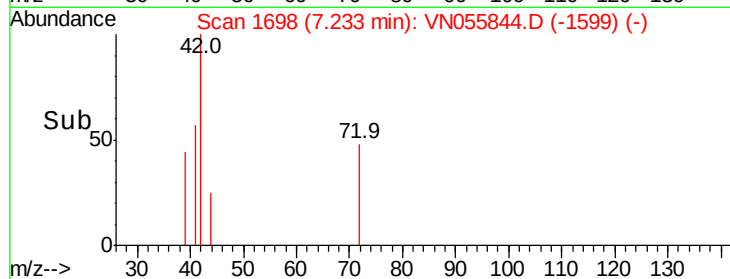
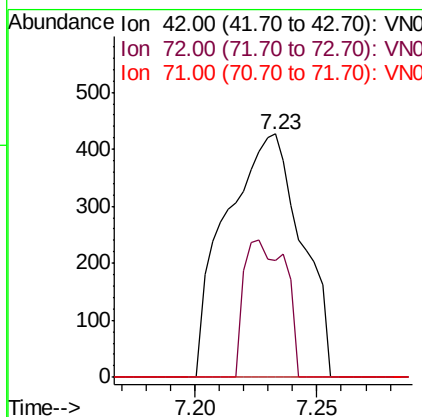
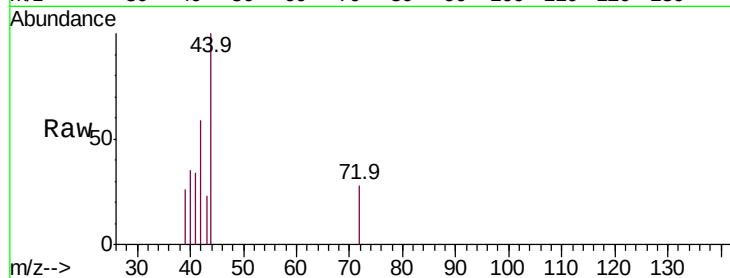
Tot Ion: 42 Resp: 914

Ion Ratio Lower Upper

42 100

72 31.0 35.9 53.9#

71 0.0 34.0 51.0#



#31

Cyclohexane

Concen: 0.938 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

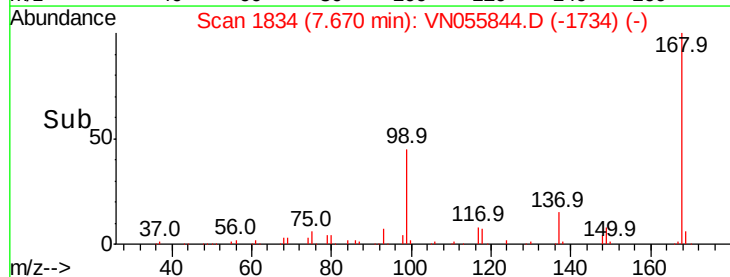
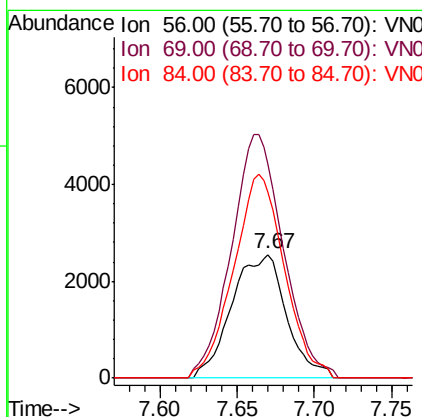
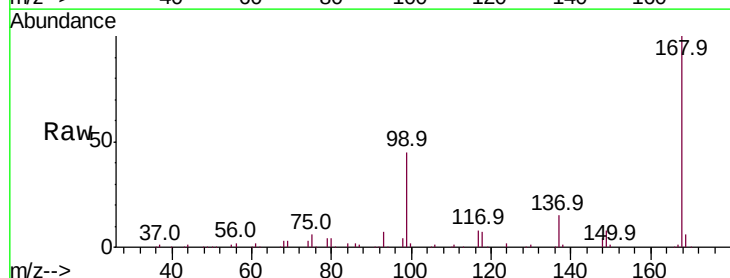
Tgt Ion: 56 Resp: 6271

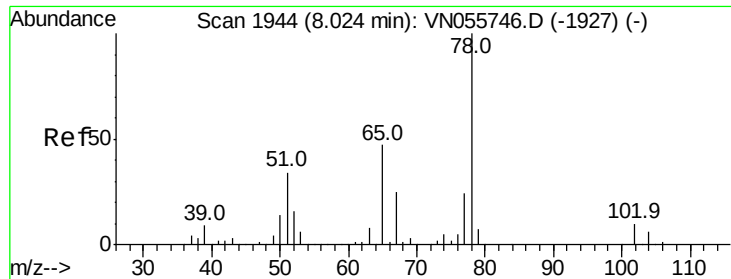
Ion Ratio Lower Upper

56 100

69 173.1 25.6 38.4#

84 150.4 67.4 101.0#

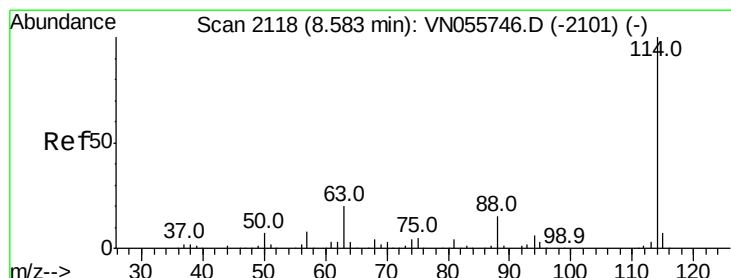
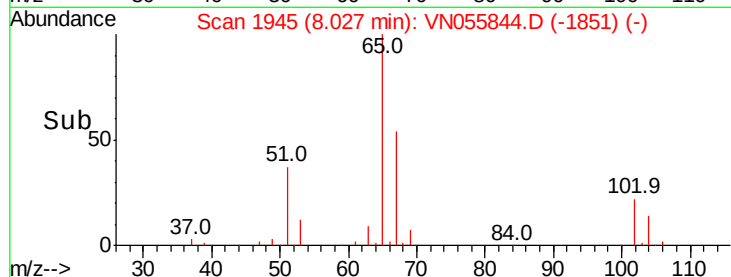
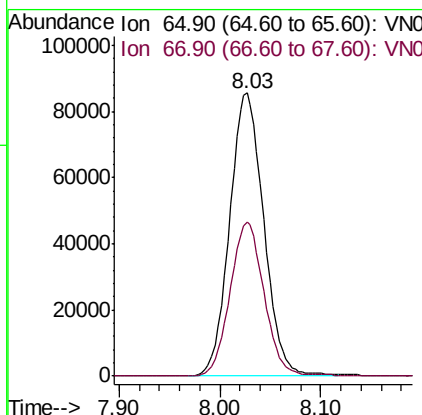
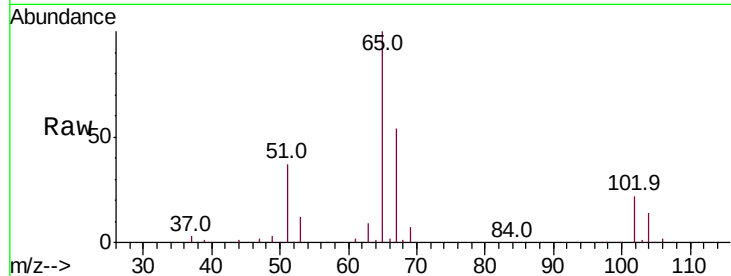




#33
 1,2-Dichloroethane-d4
 Concen: 45.226 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055844.D
 Acq: 28 May 2019 11:36

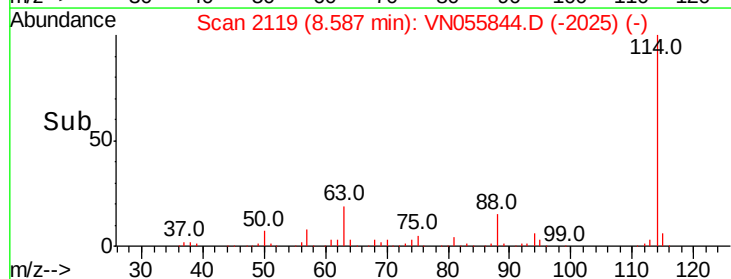
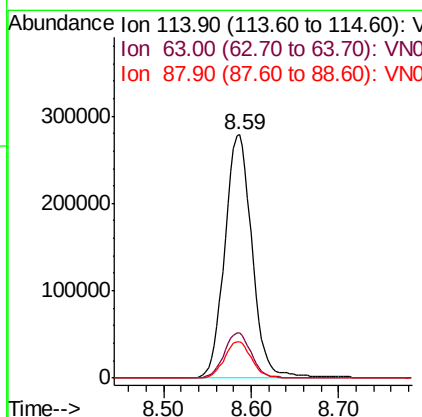
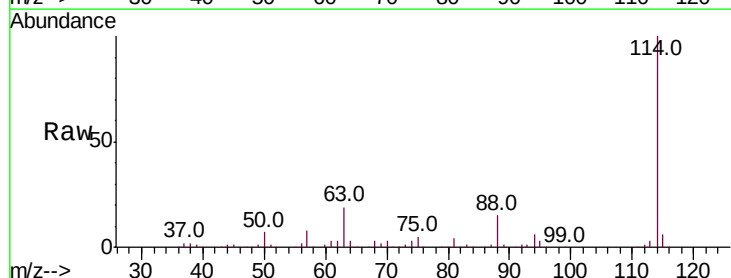
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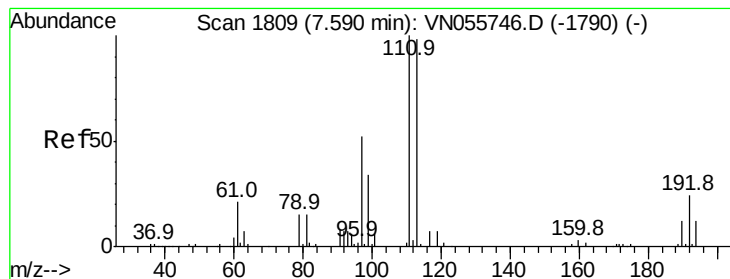
Tot Ion: 65 Resp: 201398
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055844.D
 Acq: 28 May 2019 11:36

Tgt Ion: 114 Resp: 604775
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.2
 88 15.0 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.935 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

0444-FIELD-BLANK-1

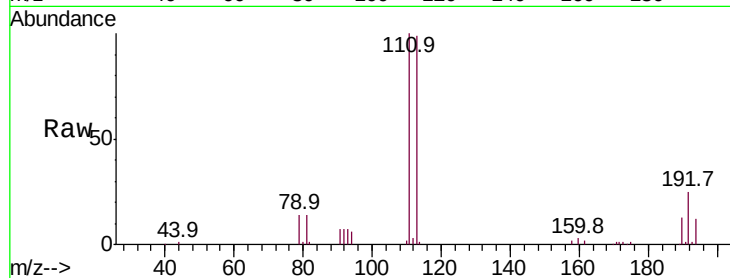
Tot Ion:113 Resp: 183285

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

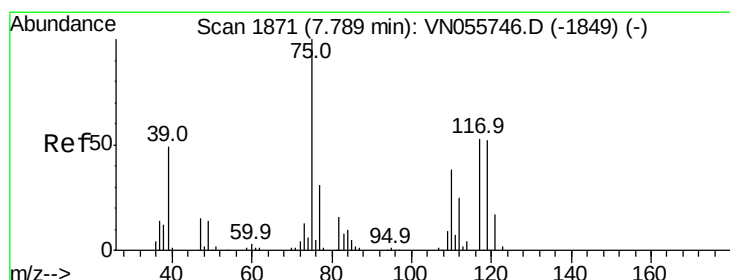
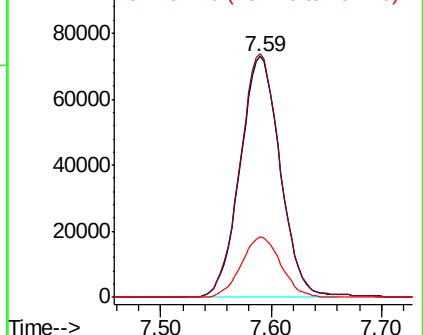
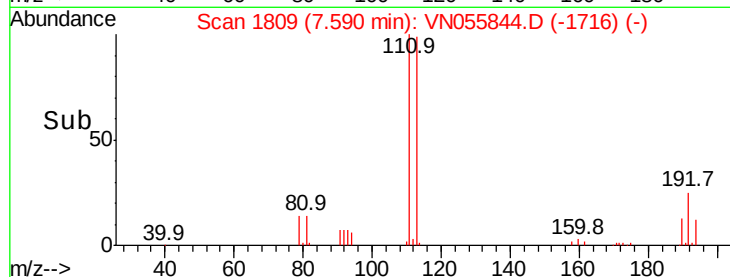
192 24.8 19.5 29.3



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: 4.726 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

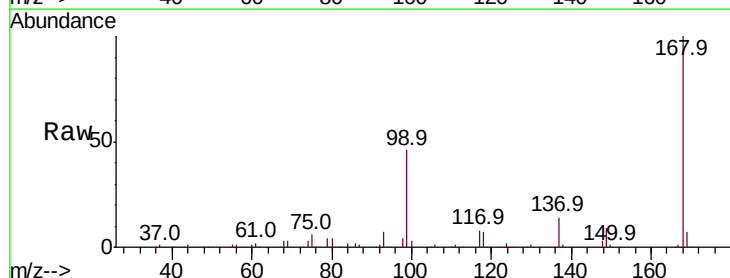
Tgt Ion: 75 Resp: 24908

Ion Ratio Lower Upper

75 100

110 8.1 19.0 57.0#

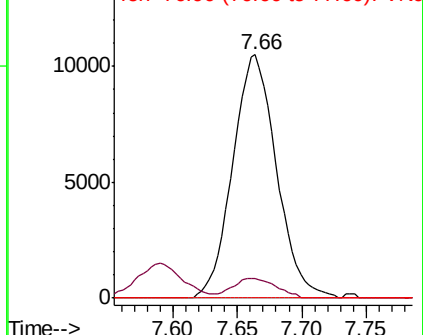
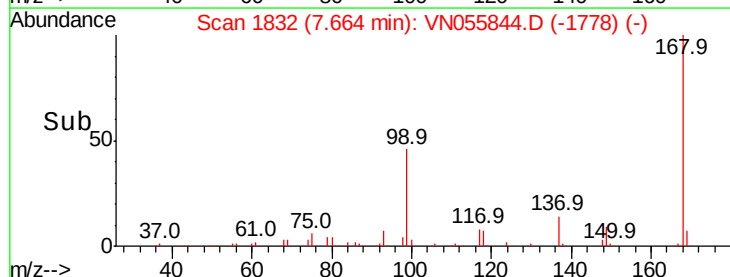
77 0.0 25.1 37.7#

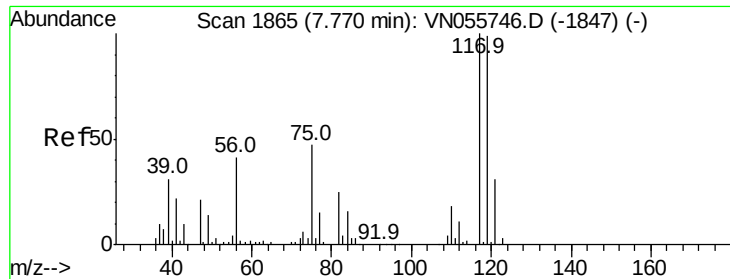


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.402 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

0444-FIELD-BLANK-1

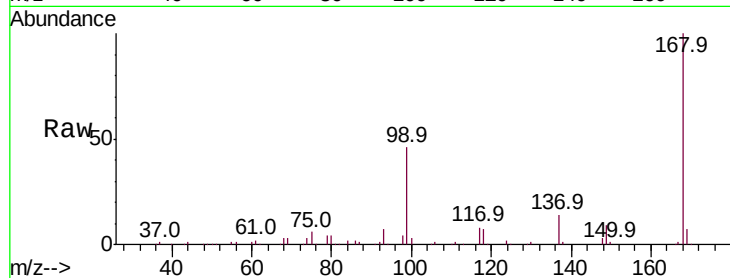
Tot Ion:117 Resp: 35143

Ion Ratio Lower Upper

117 100

119 5.0 79.0 118.6#

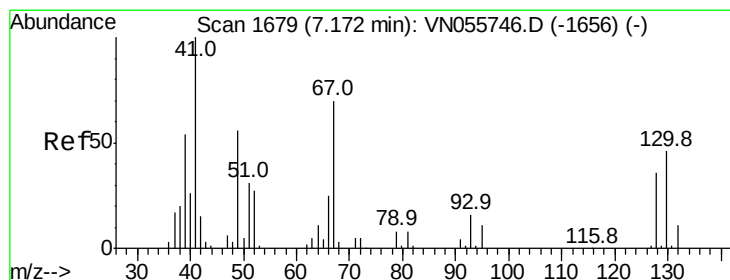
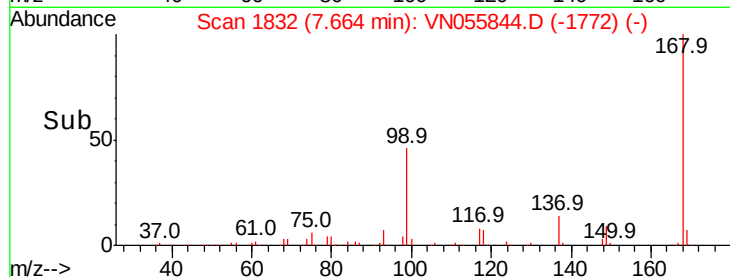
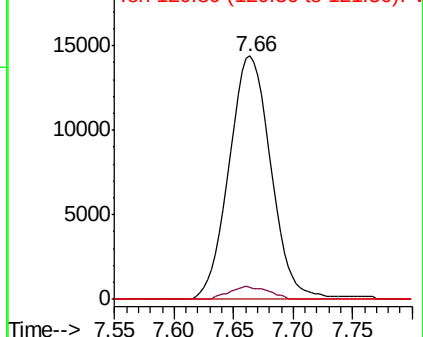
121 0.0 24.7 37.1#



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



#41

Methacrylonitrile

Concen: 0.206 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.06 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Tgt Ion: 41 Resp: 530

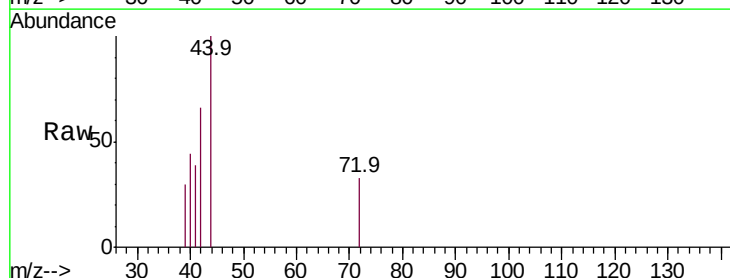
Ion Ratio Lower Upper

41 100

39 25.5 45.6 68.4#

67 0.0 67.7 101.5#

52 0.0 26.6 40.0#

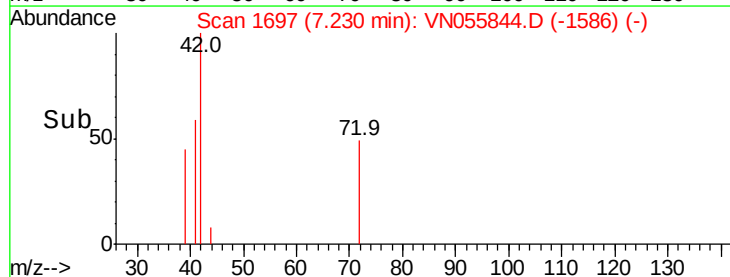
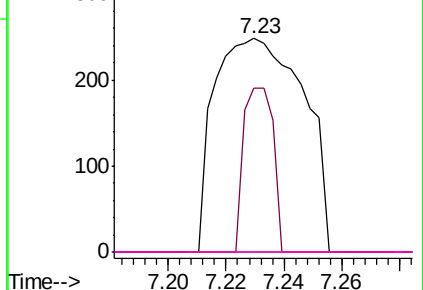


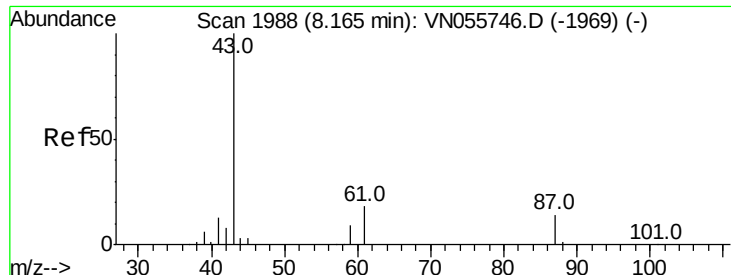
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 0.341 ug/l

RT: 8.30 min Scan# 2029

Delta R.T. 0.13 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

0444-FIELD-BLANK-1

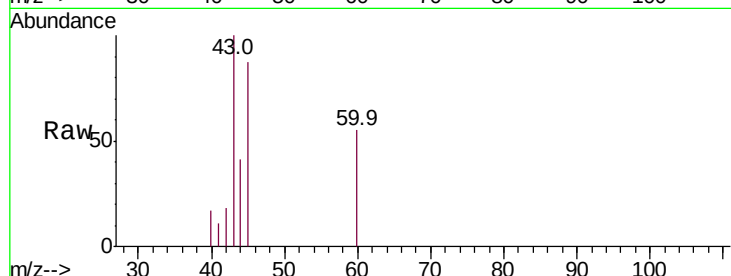
Tot Ion: 43 Resp: 2919

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

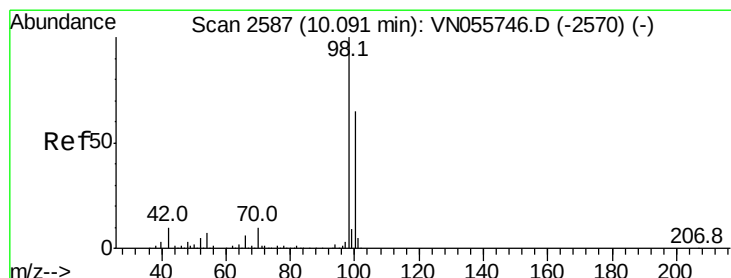
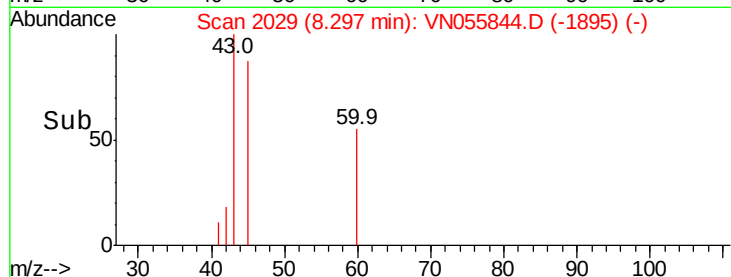
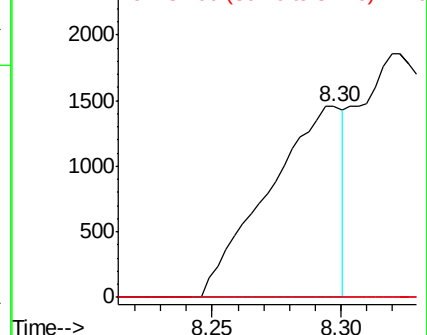
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#50

Toluene-d8

Concen: 48.873 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055844.D

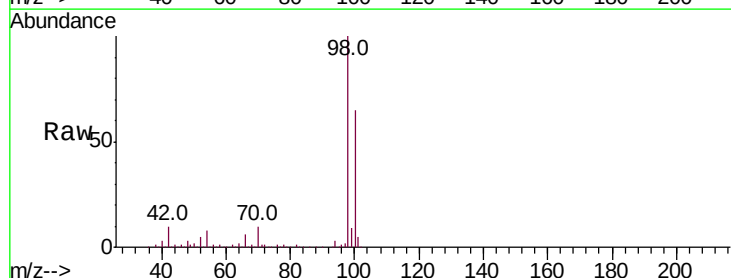
Acq: 28 May 2019 11:36

Tgt Ion: 98 Resp: 716821

Ion Ratio Lower Upper

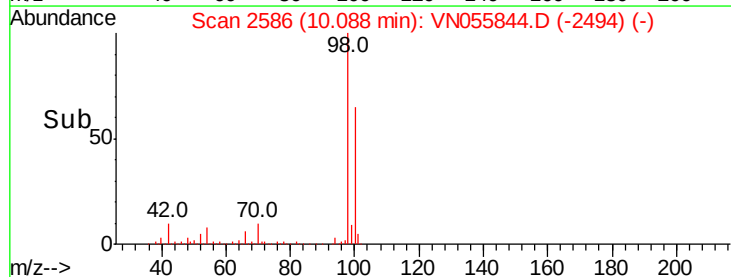
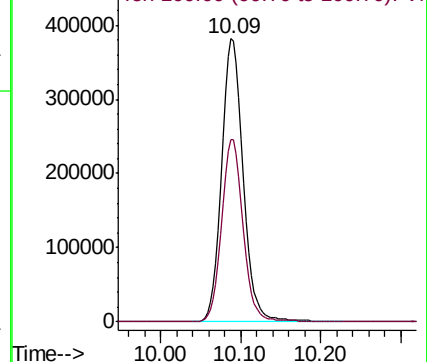
98 100

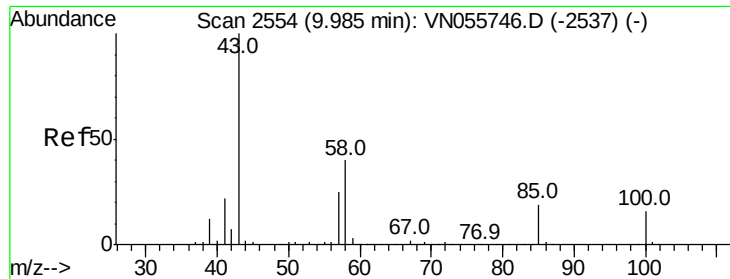
100 64.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VNO

Ion 100.00 (99.70 to 100.70): VNO





#51

4-Methyl-2-Pentanone

Concen: 0.258 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

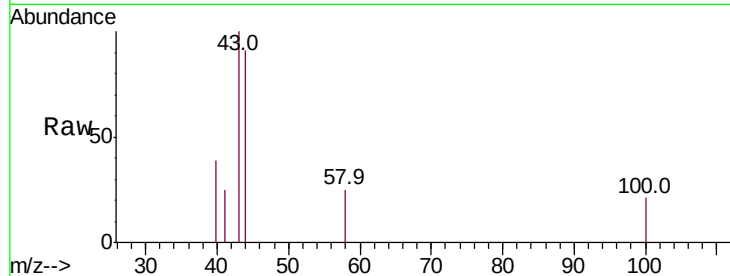
0444-FIELD-BLANK-1

Tot Ion: 43 Resp: 1302

Ion Ratio Lower Upper

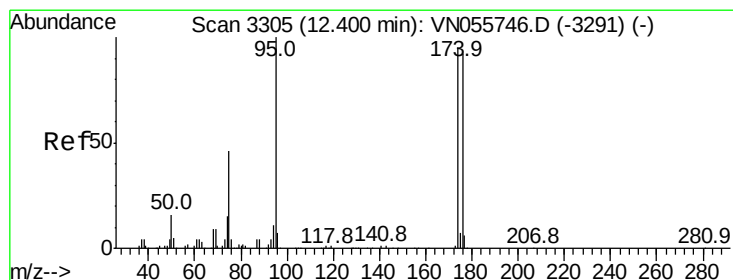
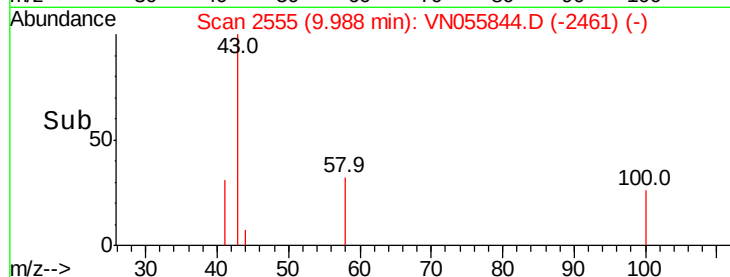
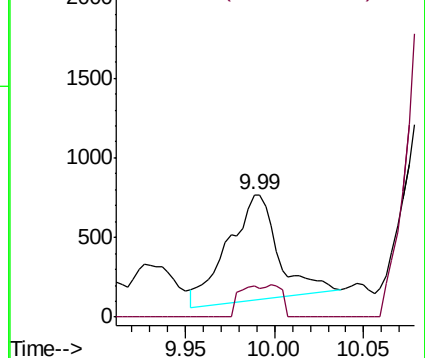
43 100

58 13.3 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 44.518 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

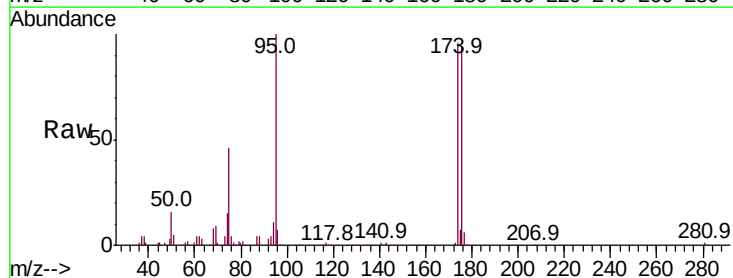
Tgt Ion: 95 Resp: 223889

Ion Ratio Lower Upper

95 100

174 98.2 0.0 191.0

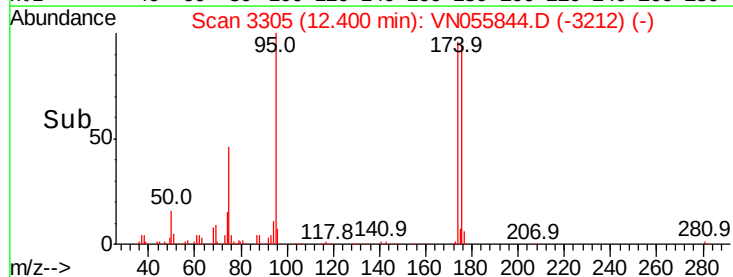
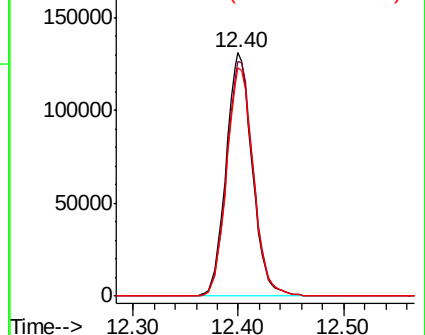
176 95.4 0.0 185.2

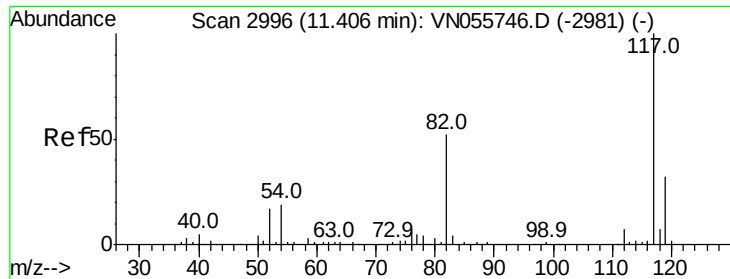


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

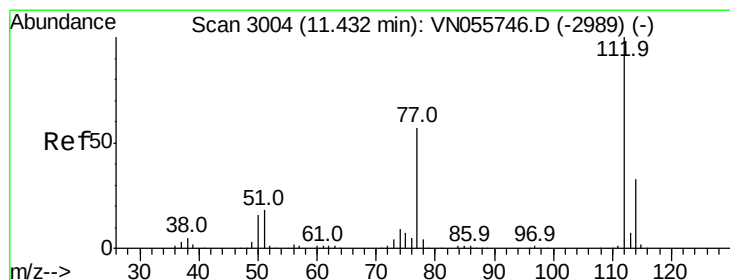
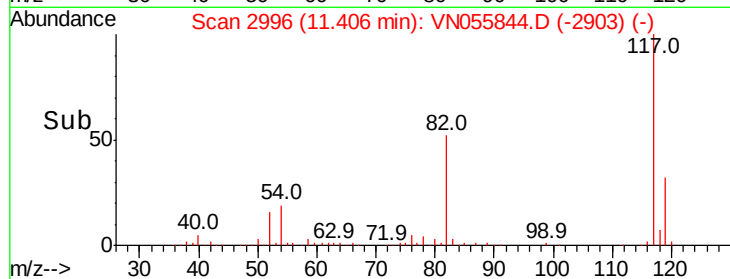
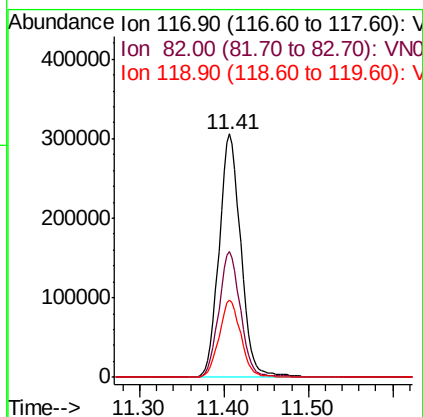
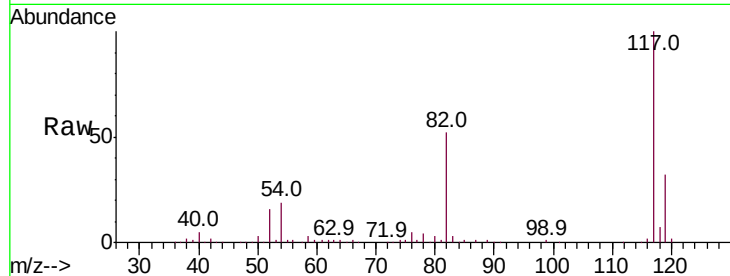




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055844.D
Acq: 28 May 2019 11:36

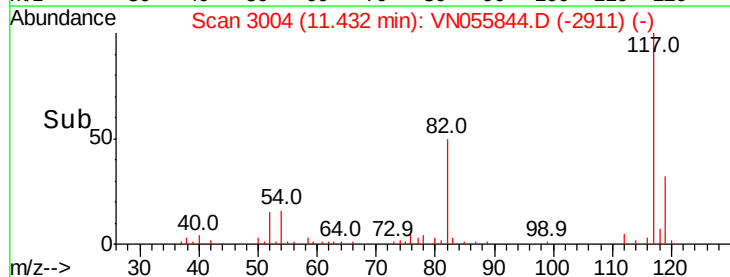
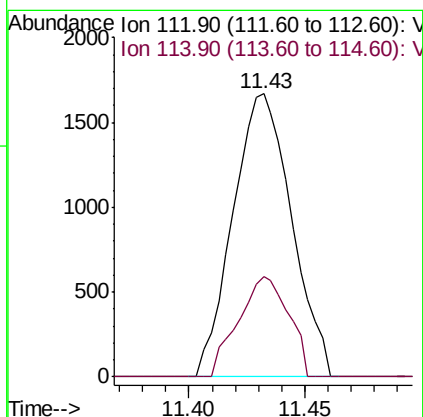
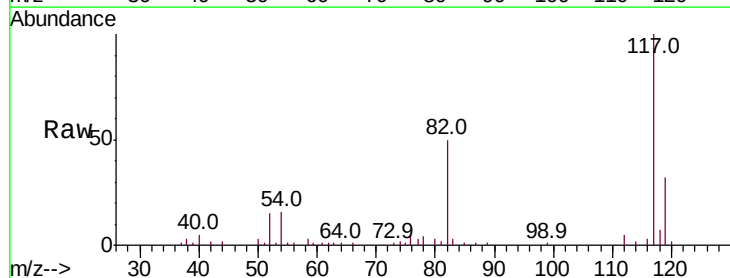
Instrument :
MSVOA_N
ClientSampleId :
0444-FIELD-BLANK-1

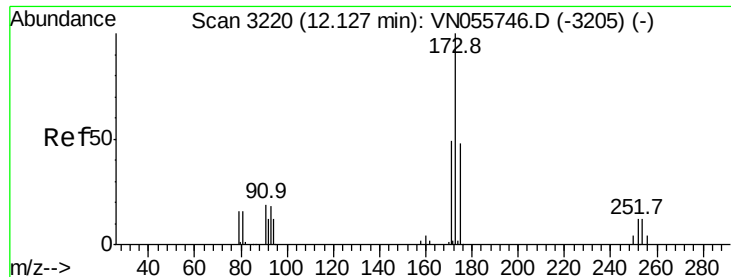
Tot Ion:117 Resp: 547357
Ion Ratio Lower Upper
117 100
82 51.7 41.8 62.8
119 31.9 25.4 38.0



#65
Chlorobenzene
Concen: 0.268 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055844.D
Acq: 28 May 2019 11:36

Tgt Ion:112 Resp: 2933
Ion Ratio Lower Upper
112 100
114 35.4 26.2 39.4





#71

Bromoform

Concen: 0.340 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

0444-FIELD-BLANK-1

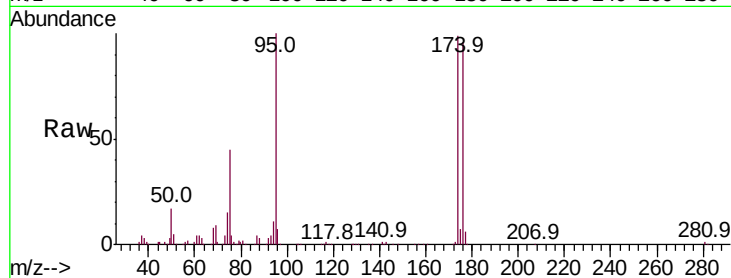
Tot Ion:173 Resp: 1266

Ion Ratio Lower Upper

173 100

175 1054.0 24.3 72.8#

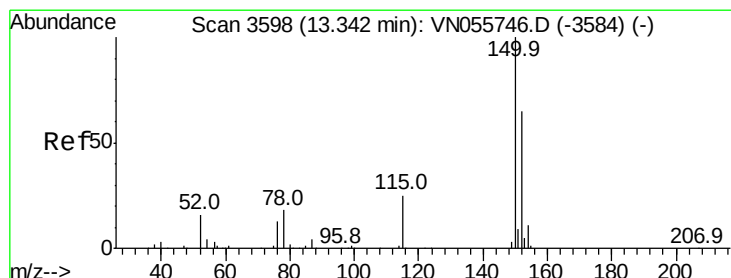
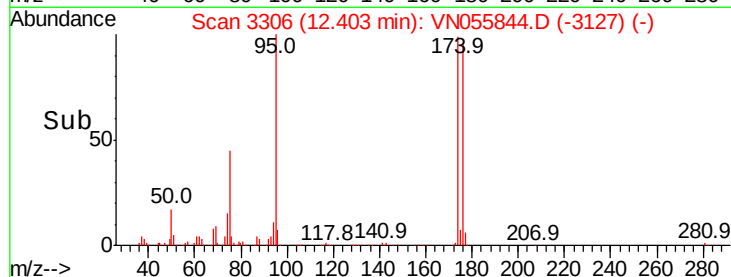
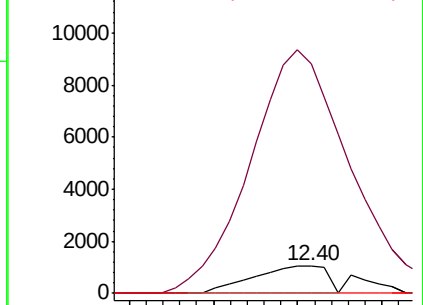
254 0.0 0.0 0.0



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: VN055844.D

Acq: 28 May 2019 11:36

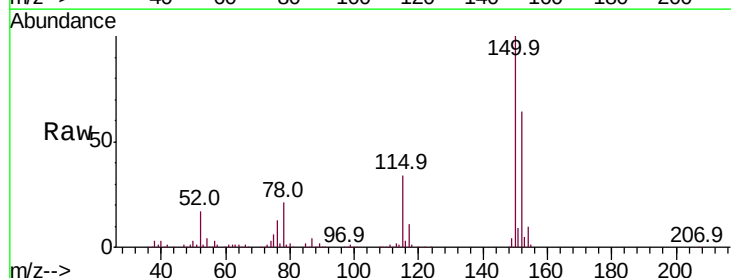
Tgt Ion:152 Resp: 182645

Ion Ratio Lower Upper

152 100

115 52.8 27.0 81.0

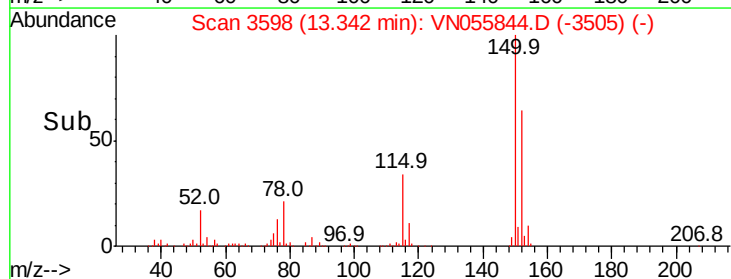
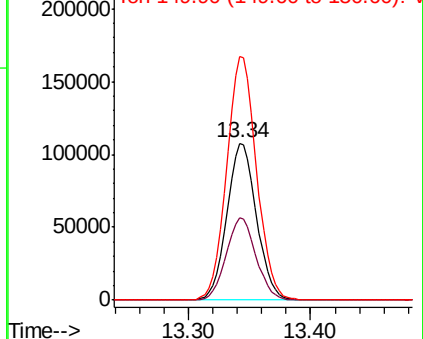
150 156.1 0.0 343.2

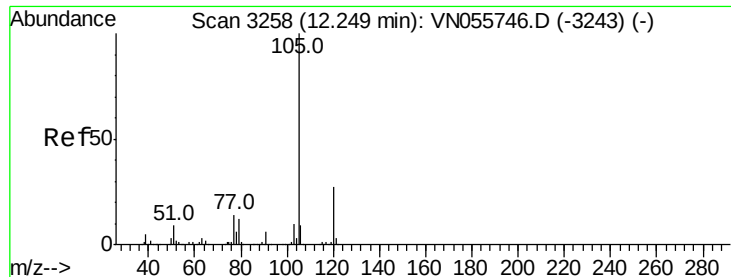


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. 0.15 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

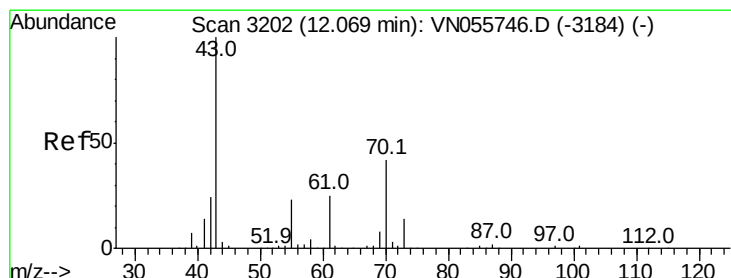
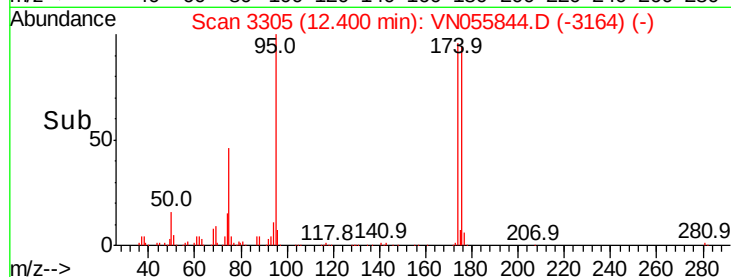
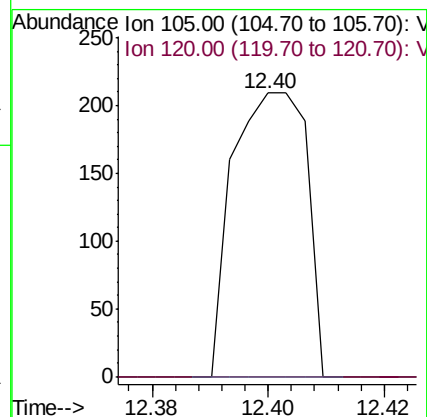
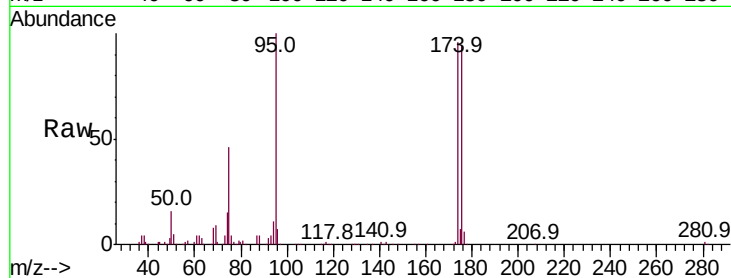
0444-FIELD-BLANK-1

Tot Ion:105 Resp: 184

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#74

N-amyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Tgt Ion: 43 Resp: 105

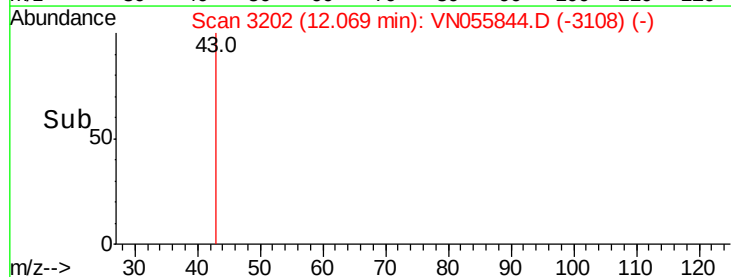
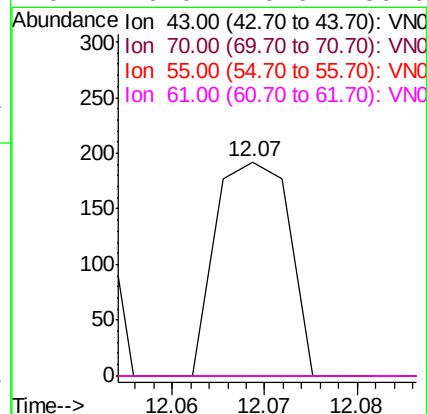
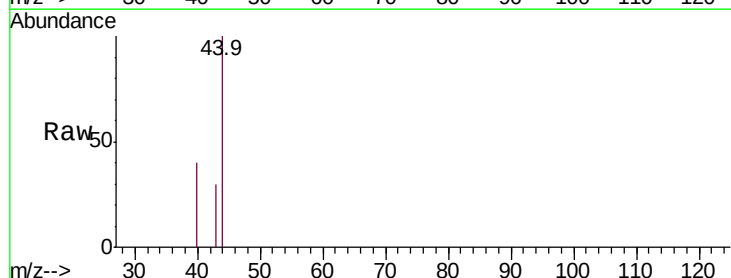
Ion Ratio Lower Upper

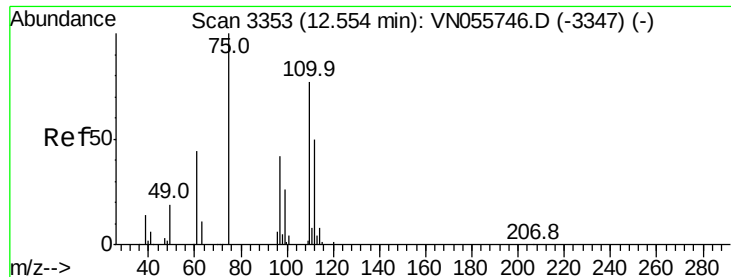
43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#





#76

1,2,3-Trichloropropane

Concen: 31.951 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

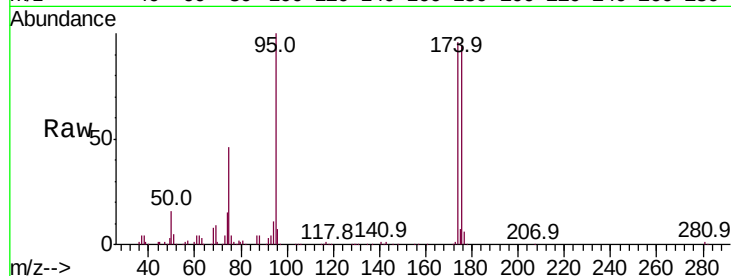
0444-FIELD-BLANK-1

Tot Ion: 75 Resp: 104061

Ion Ratio Lower Upper

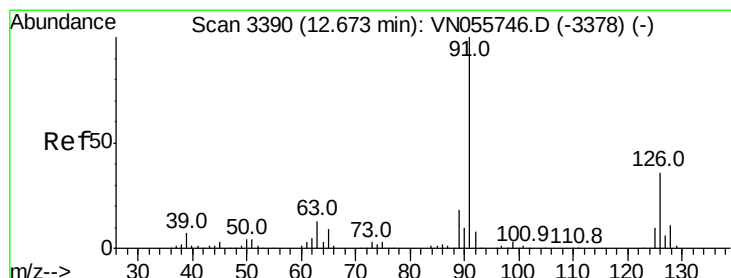
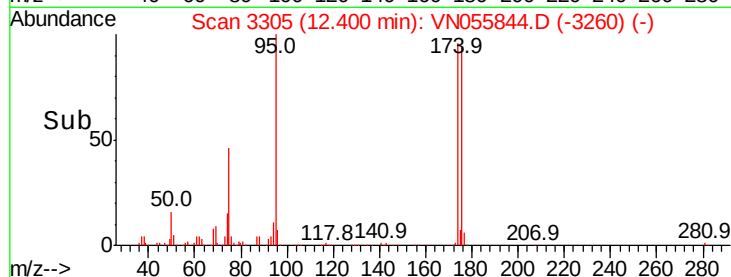
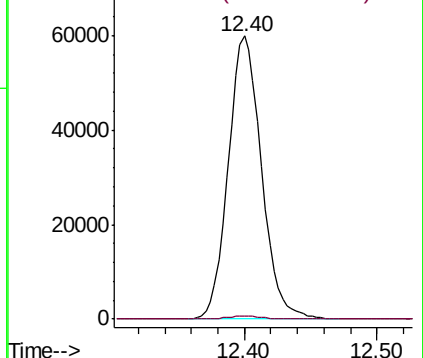
75 100

77 1.1 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: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN055844.D

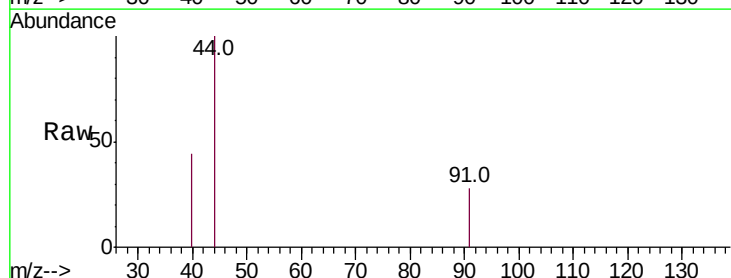
Acq: 28 May 2019 11:36

Tgt Ion: 91 Resp: 101

Ion Ratio Lower Upper

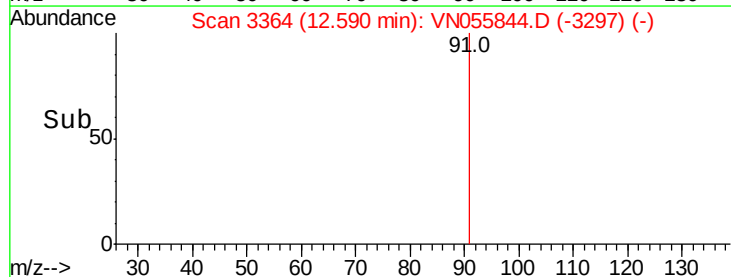
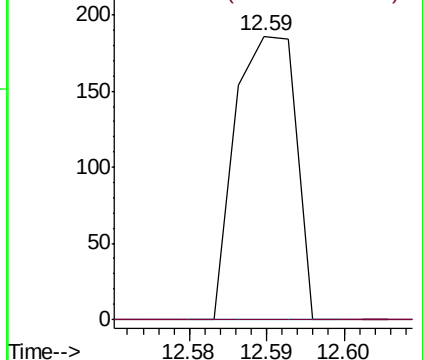
91 100

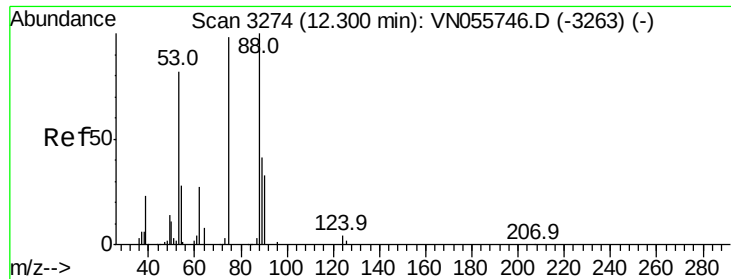
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 76.658 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

0444-FIELD-BLANK-1

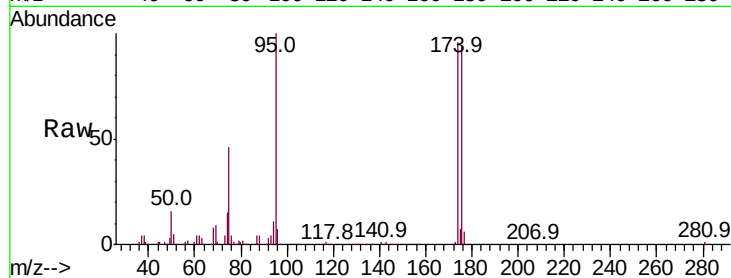
Tot Ion: 75 Resp: 104061

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

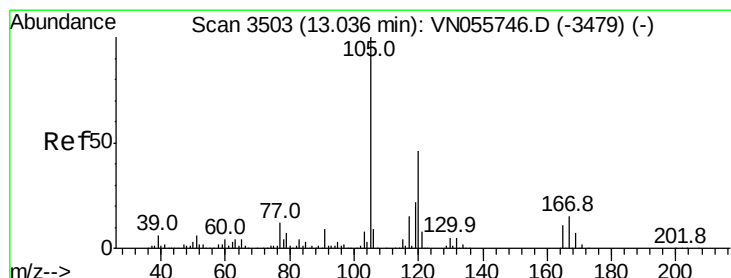
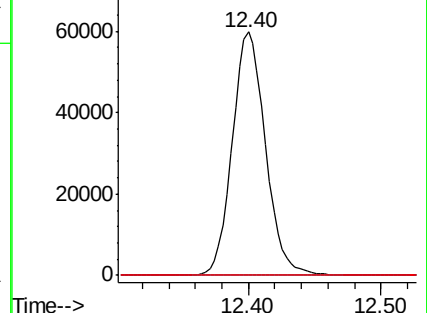
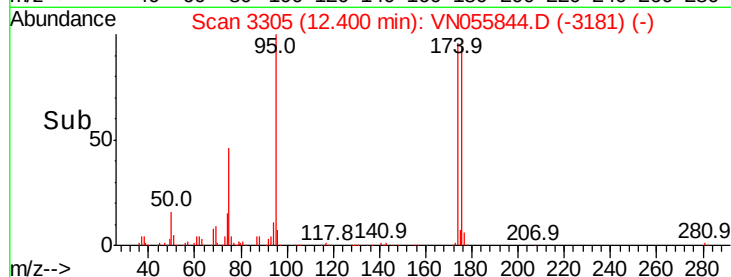
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN055844.D

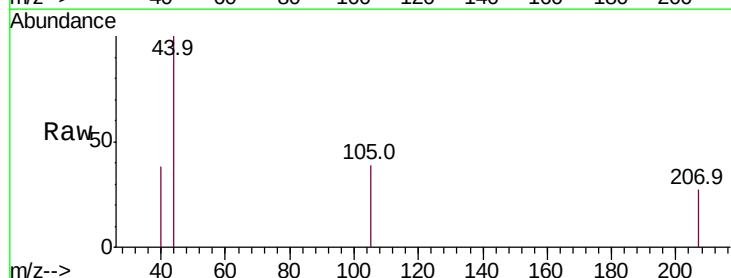
Acq: 28 May 2019 11:36

Tgt Ion: 105 Resp: 296

Ion Ratio Lower Upper

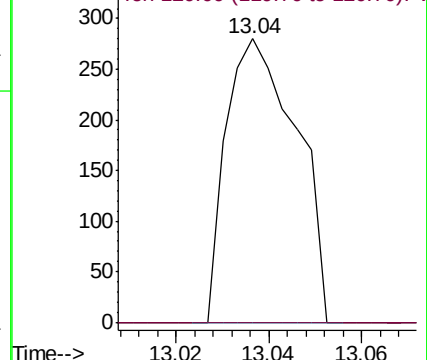
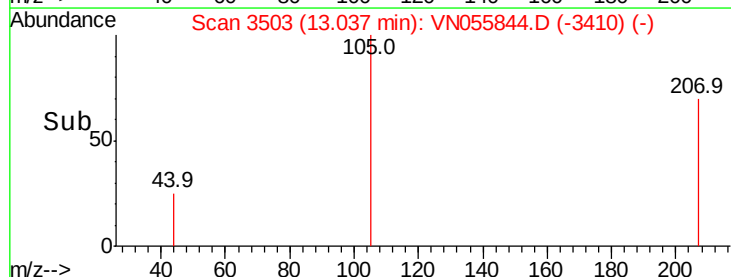
105 100

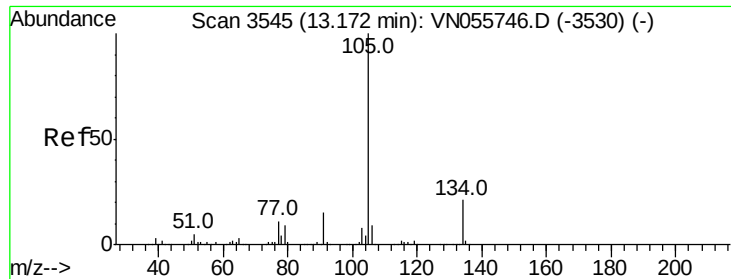
120 0.0 23.0 69.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3503

Delta R.T. -0.13 min

Lab File: VN055844.D

Acq: 28 May 2019 11:36

Instrument :

MSVOA_N

ClientSampleId :

0444-FIELD-BLANK-1

Tot Ion:105 Resp: 296

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.2#

