

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055823.D
 Acq On : 25 May 2019 3:24
 Operator : JC/SP
 Sample : K3037-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-3

Quant Time: May 25 04:34:34 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	429084	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	597219	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	535951	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	181326	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	194169	43.82	ug/l	0.00
Spiked Amount			Recovery	=	87.64%	
35) Dibromofluoromethane	7.59	113	179453	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
50) Toluene-d8	10.09	98	706009	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
62) 4-Bromofluorobenzene	12.40	95	222292	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	

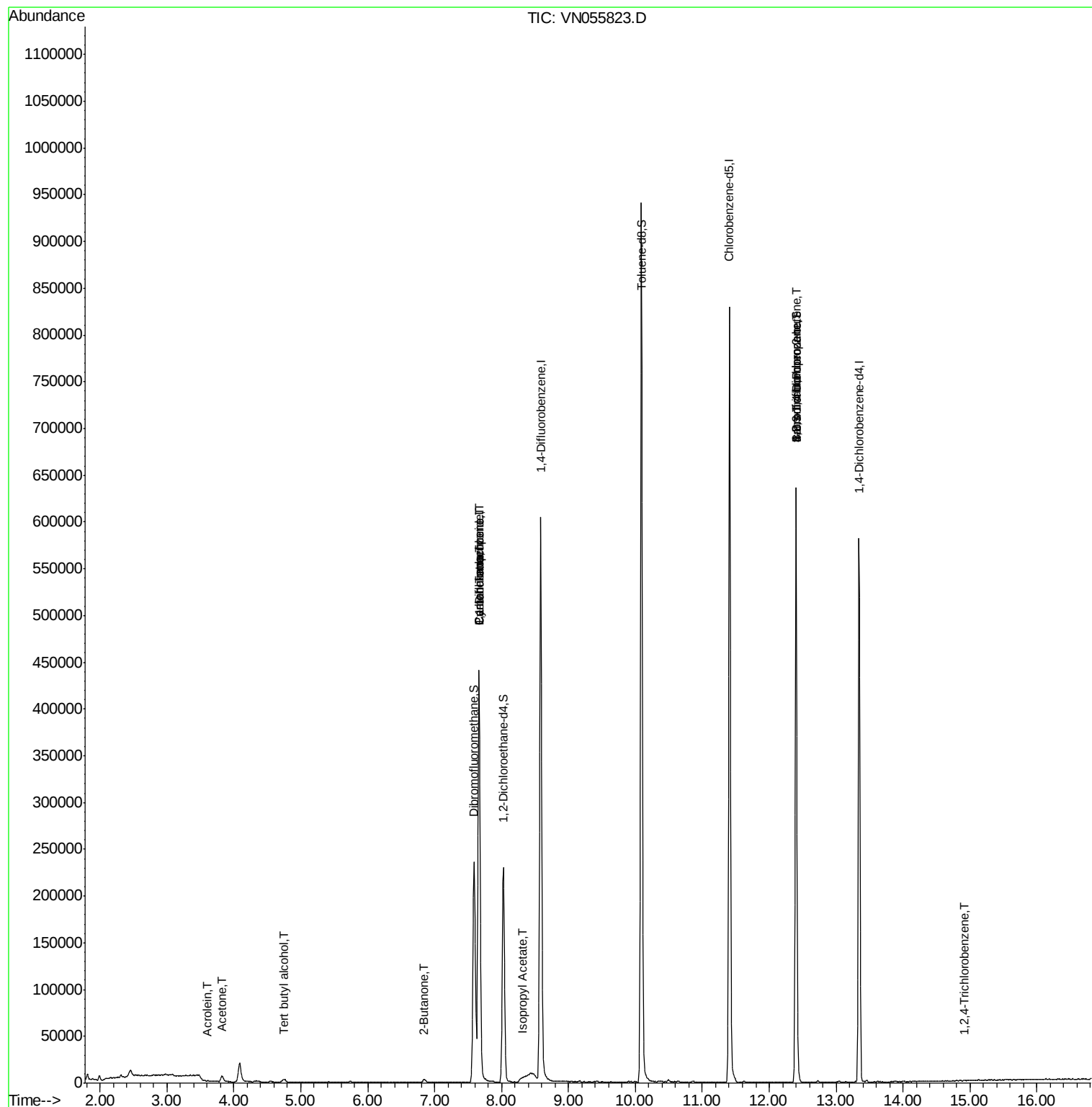
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	3182	3.758	ug/l #	74
13) Acrolein	3.60	56	135	0.223	ug/l #	70
16) Acetone	3.82	43	11084	5.690	ug/l	99
18) Methyl Acetate	4.33	43	3006	Below Cal	#	76
25) 2-Butanone	6.85	43	827	0.304	ug/l #	47
31) Cyclohexane	7.66	56	6242	0.938	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23940	4.600	ug/l #	49
38) Carbon Tetrachloride	7.66	117	33833	6.241	ug/l #	14
43) Isopropyl Acetate	8.30	43	4160	0.492	ug/l #	53
71) Bromoform	12.40	173	1389	0.381	ug/l #	1
73) Isopropylbenzene	12.24	105	237	Below Cal	#	48
74) N-amyl acetate	12.04	43	432	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	103282	31.942	ug/l #	100
79) 2-Chlorotoluene	12.59	91	526	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	204	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	103282	76.638	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	585	Below Cal		84
85) sec-Butylbenzene	13.17	105	303	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	349	3.729	ug/l #	78

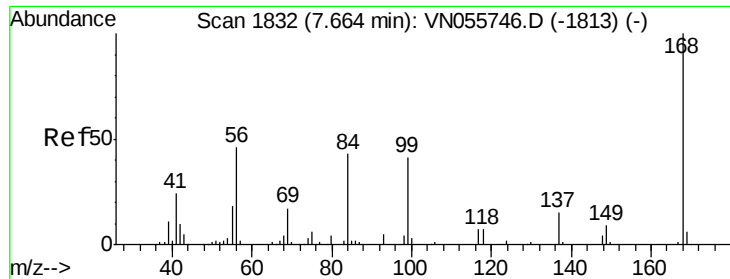
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052419\
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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: VN055823.D

Acq: 25 May 2019 3:24

Instrument :

MSVOA_N

ClientSampleId :

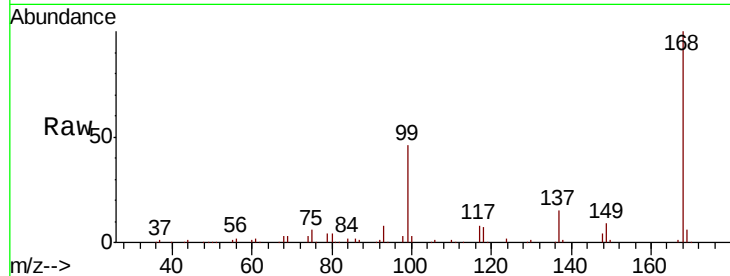
MW2-R1-3

Tot Ion:168 Resp: 429084

Ion Ratio Lower Upper

168 100

99 46.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

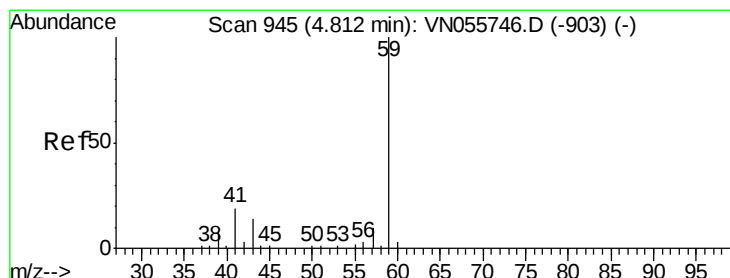
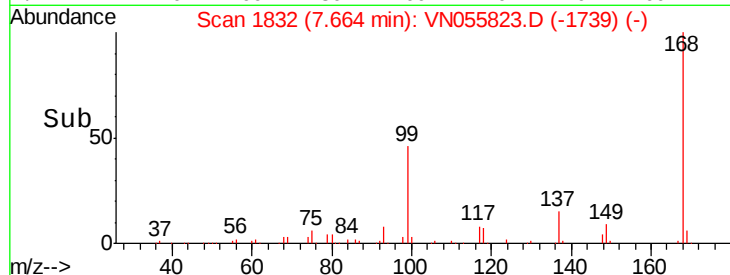
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 3.758 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.07 min

Lab File: VN055823.D

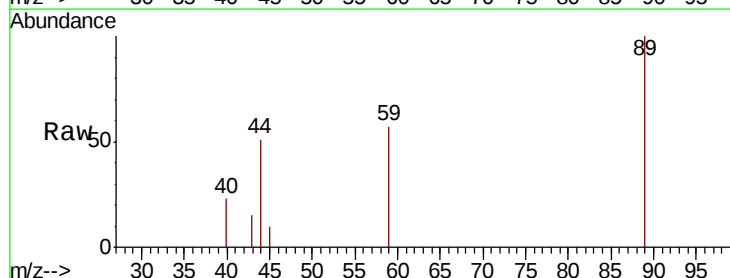
Acq: 25 May 2019 3:24

Tgt Ion: 59 Resp: 3182

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

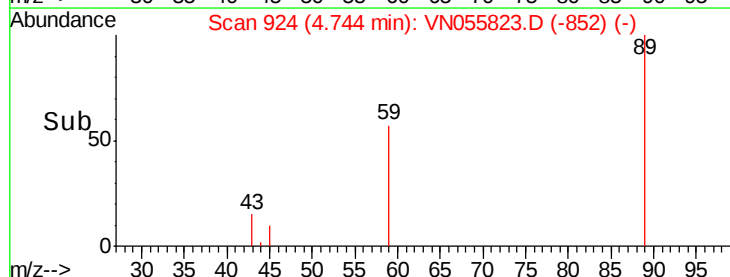
400

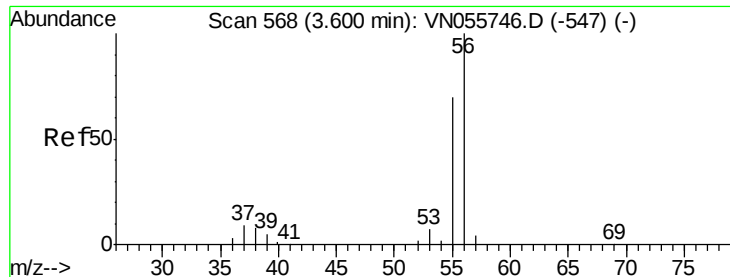
200

0

Time-->

4.65 4.70 4.75 4.80





#13

Acrolein

Concen: 0.223 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055823.D

Acq: 25 May 2019 3:24

Instrument :

MSVOA_N

ClientSampleId :

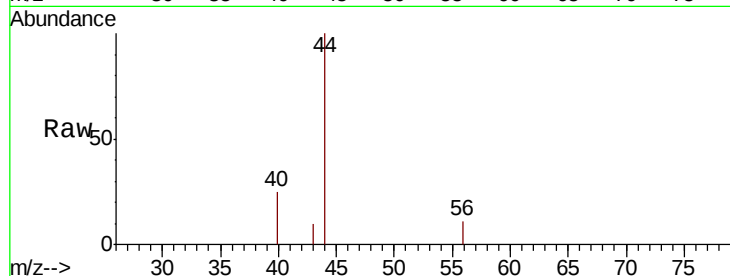
MW2-R1-3

Tot Ion: 56 Resp: 135

Ion Ratio Lower Upper

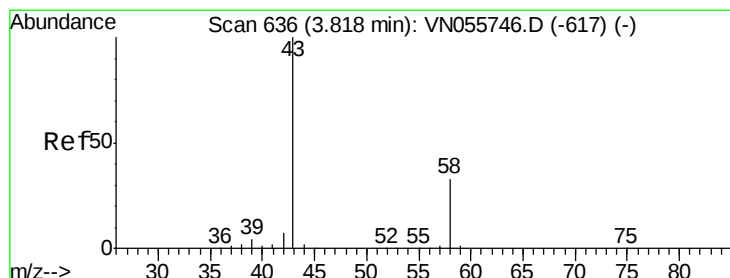
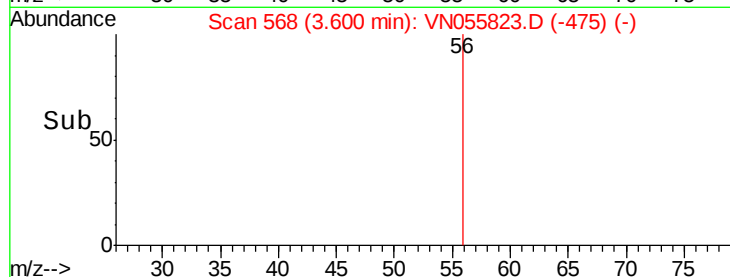
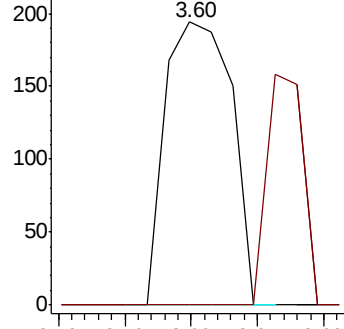
56 100

55 44.4 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 5.690 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055823.D

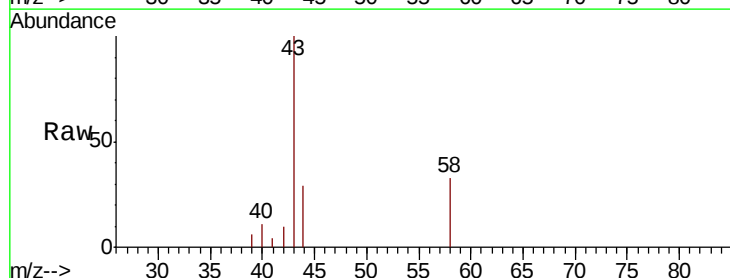
Acq: 25 May 2019 3:24

Tgt Ion: 43 Resp: 11084

Ion Ratio Lower Upper

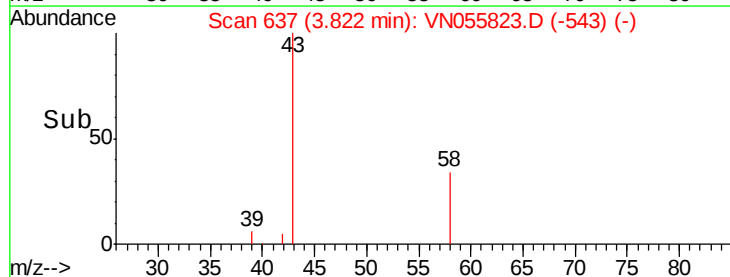
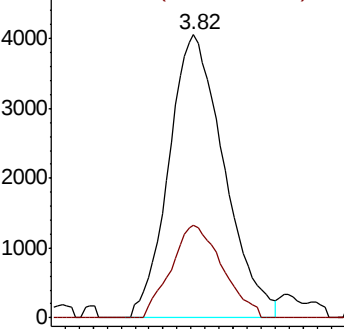
43 100

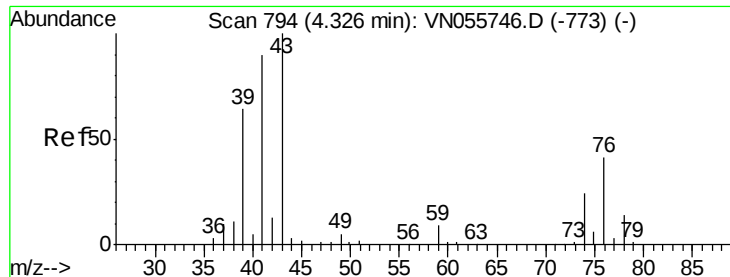
58 32.7 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

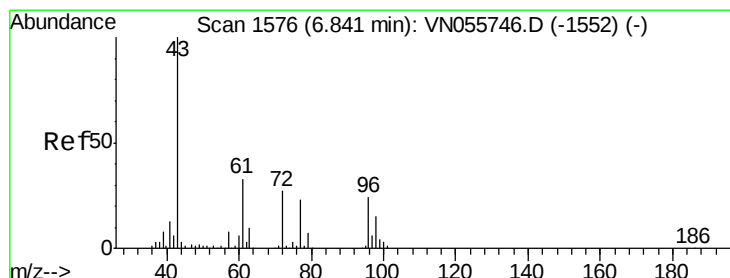
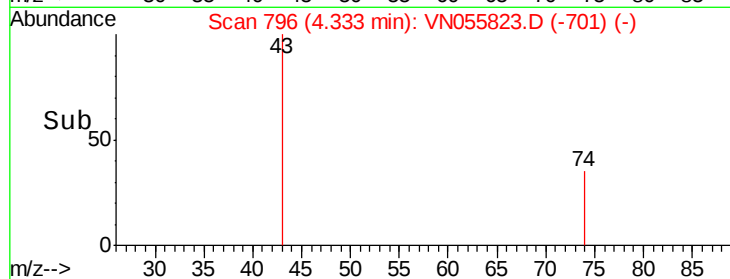
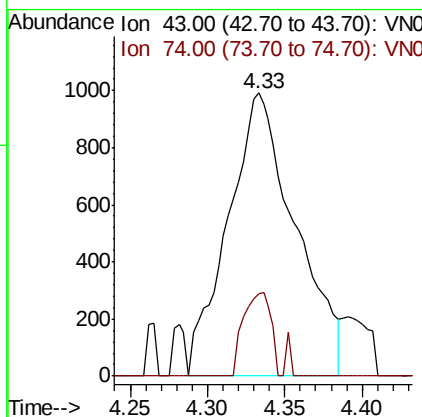
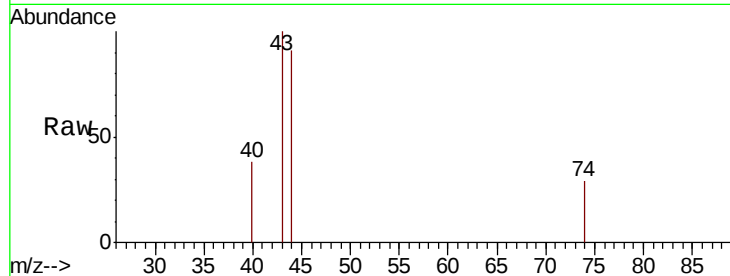




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055823.D
Acq: 25 May 2019 3:24

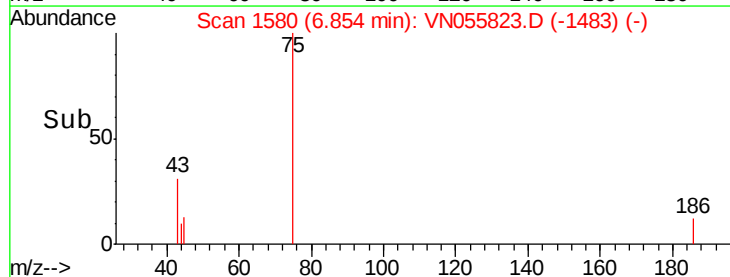
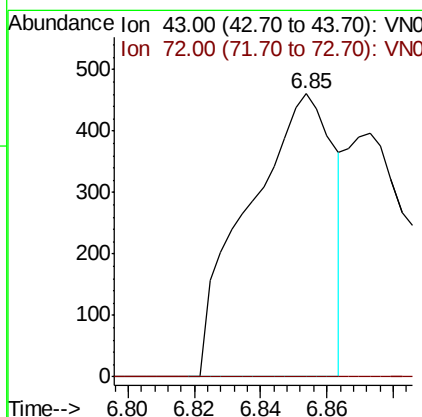
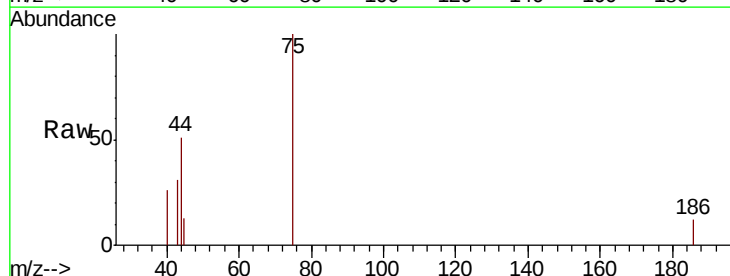
Instrument :
MSVOA_N
ClientSampled :
MW2-R1-3

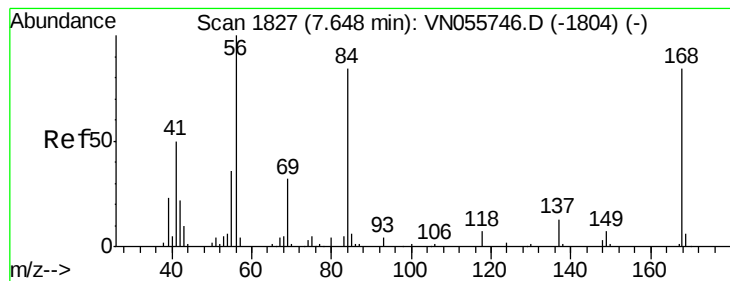
Tot Ion: 43 Resp: 3006
Ion Ratio Lower Upper
43 100
74 12.0 19.3 28.9#



#25
2-Butanone
Concen: 0.304 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN055823.D
Acq: 25 May 2019 3:24

Tgt Ion: 43 Resp: 827
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#





#31

Cyclohexane

Concen: 0.938 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN055823.D

Acq: 25 May 2019 3:24

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-3

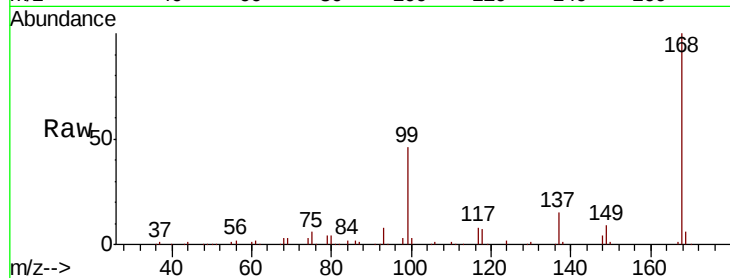
Tot Ion: 56 Resp: 6242

Ion Ratio Lower Upper

56 100

69 180.0 25.6 38.4#

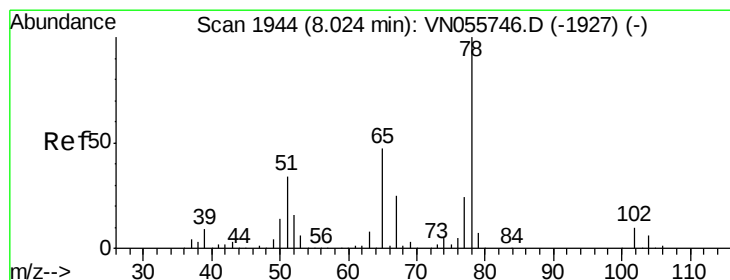
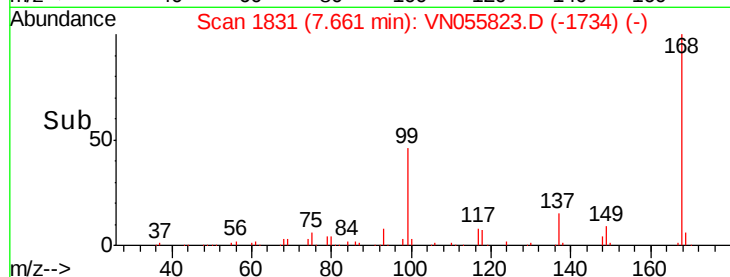
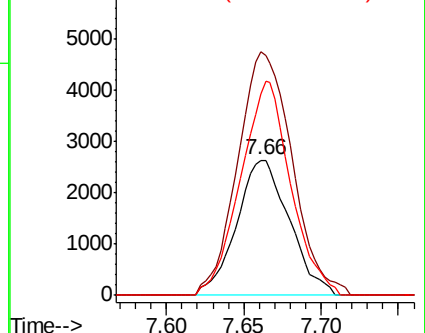
84 148.4 67.4 101.0#



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



#33

1,2-Dichloroethane-d4

Concen: 43.818 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055823.D

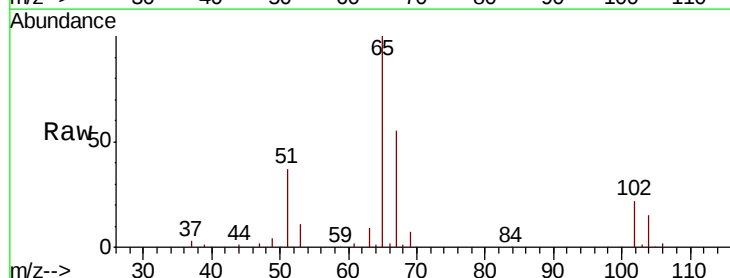
Acq: 25 May 2019 3:24

Tgt Ion: 65 Resp: 194169

Ion Ratio Lower Upper

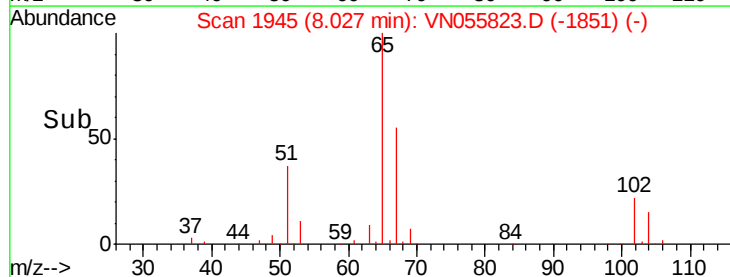
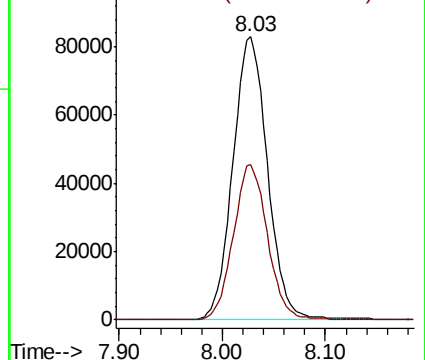
65 100

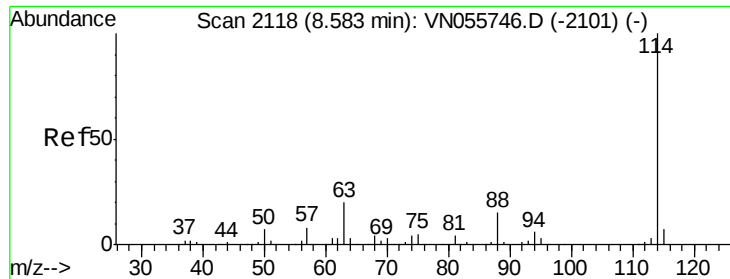
67 54.2 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

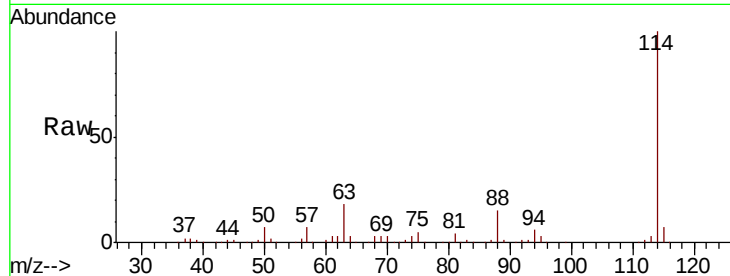




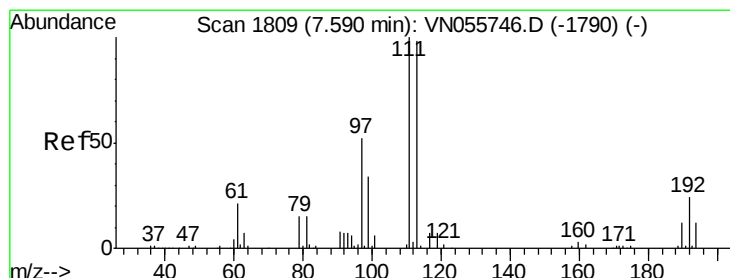
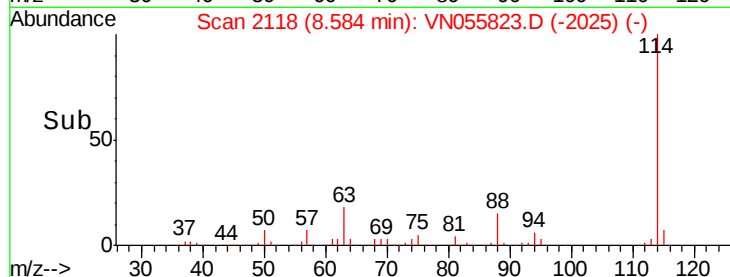
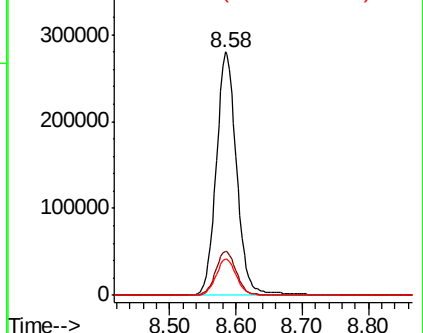
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055823.D
 Acq: 25 May 2019 3:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-3

Tot Ion:114 Resp: 597219
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 39.2
 88 14.9 0.0 31.0

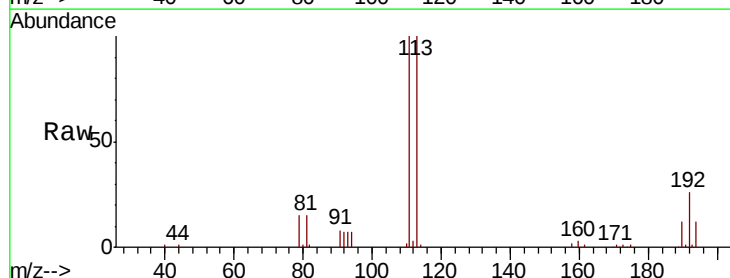


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

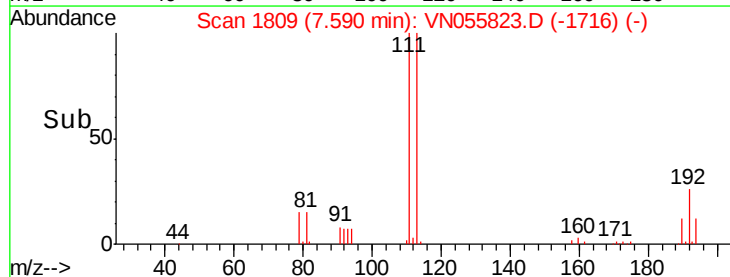
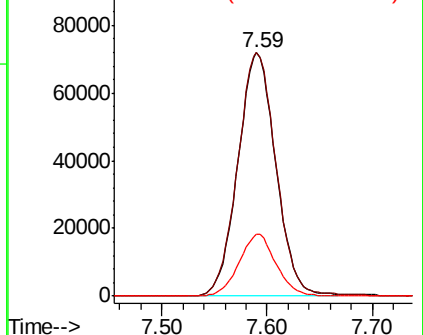


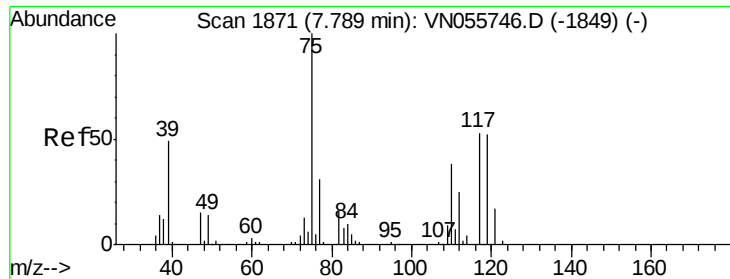
#35
 Dibromofluoromethane
 Concen: 47.527 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055823.D
 Acq: 25 May 2019 3:24

Tgt Ion:113 Resp: 179453
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.9 122.9
 192 24.7 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: 4.600 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055823.D

Acq: 25 May 2019 3:24

Instrument :

MSVOA_N

ClientSampled :

MW2-R1-3

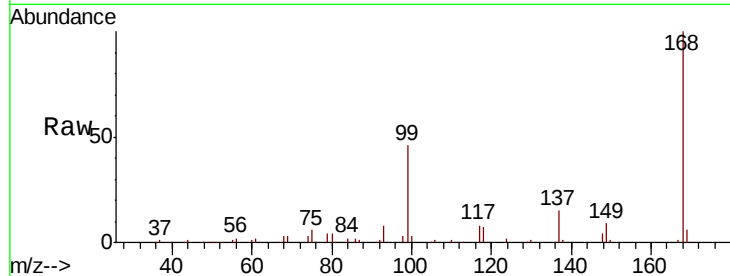
Tot Ion: 75 Resp: 23940

Ion Ratio Lower Upper

75 100

110 9.7 19.0 57.0#

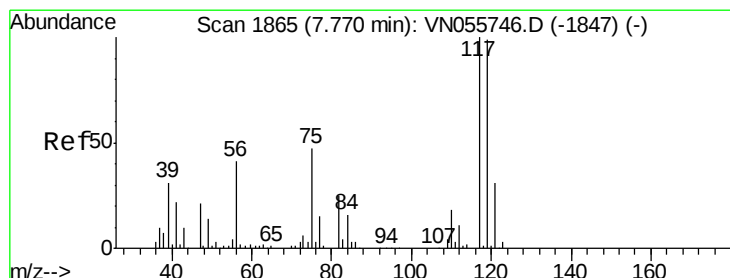
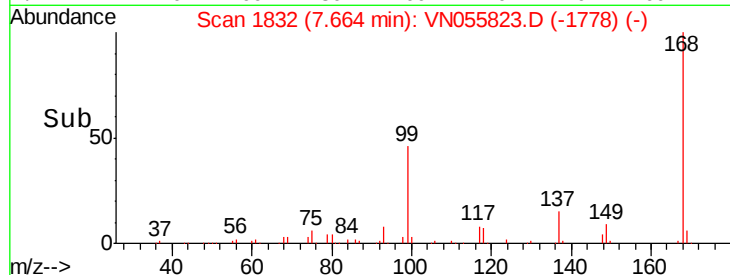
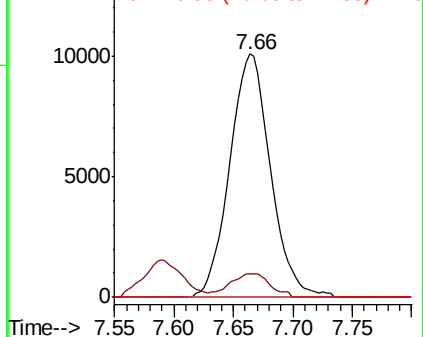
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN055823.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN055823.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN055823.D (-1778) (-)



#38

Carbon Tetrachloride

Concen: 6.241 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055823.D

Acq: 25 May 2019 3:24

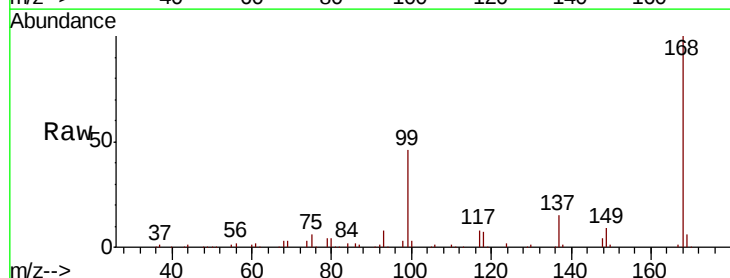
Tgt Ion: 117 Resp: 33833

Ion Ratio Lower Upper

117 100

119 4.7 79.0 118.6#

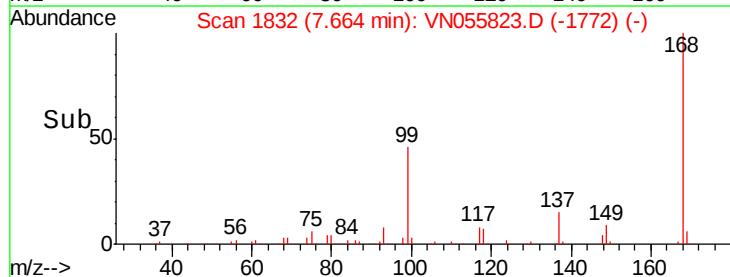
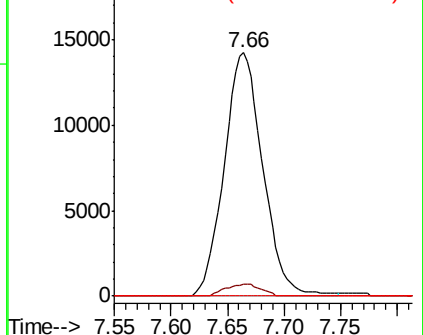
121 0.0 24.7 37.1#

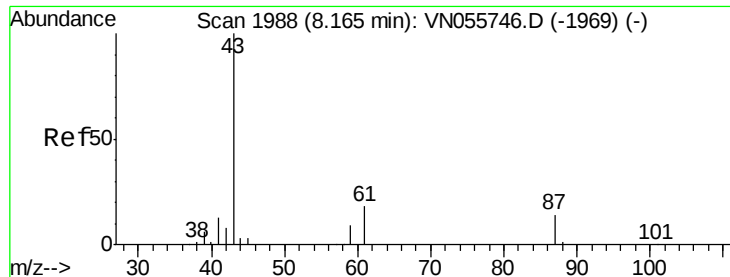


Abundance Ion 116.80 (116.50 to 117.50): VN055823.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN055823.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN055823.D (-1772) (-)





#43

Isopropyl Acetate

Concen: 0.492 ug/l

RT: 8.30 min Scan# 2030

Delta R.T. 0.14 min

Lab File: VN055823.D

Acq: 25 May 2019 3:24

Instrument :

MSVOA_N

ClientSampled :

MW2-R1-3

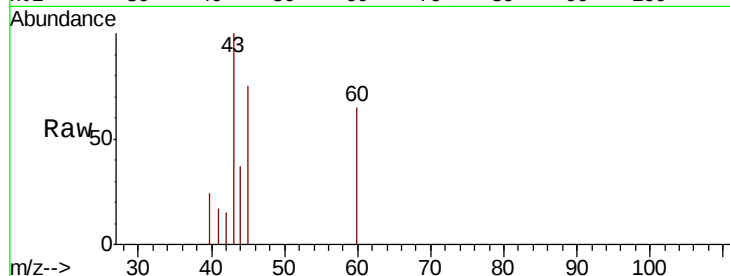
Tot Ion: 43 Resp: 4160

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

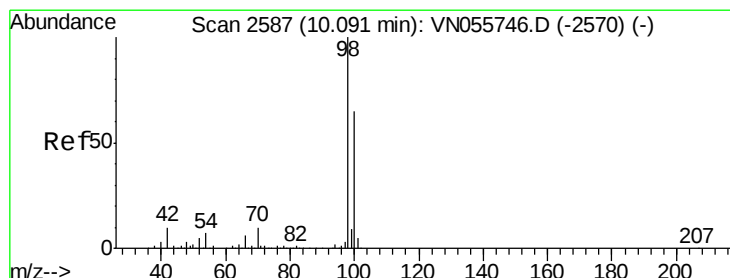
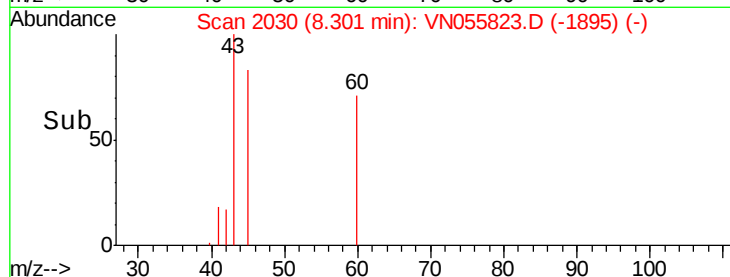
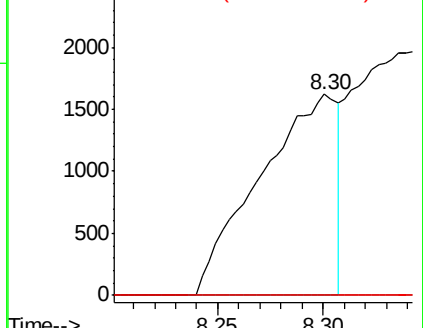
87 0.0 11.4 17.2#



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: 48.745 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055823.D

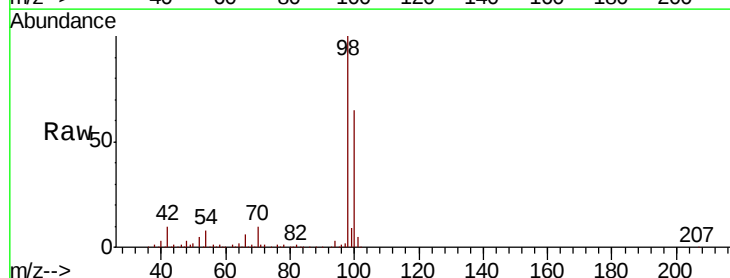
Acq: 25 May 2019 3:24

Tgt Ion: 98 Resp: 706009

Ion Ratio Lower Upper

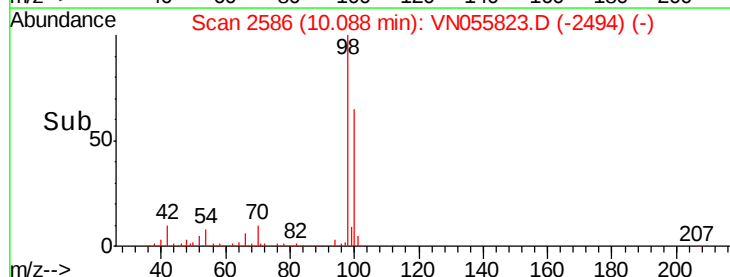
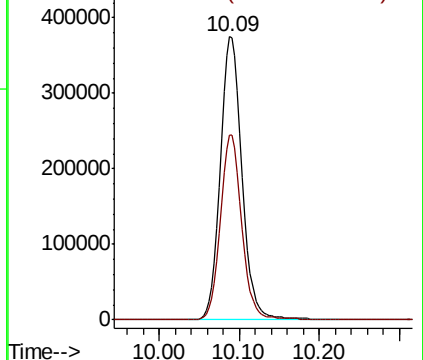
98 100

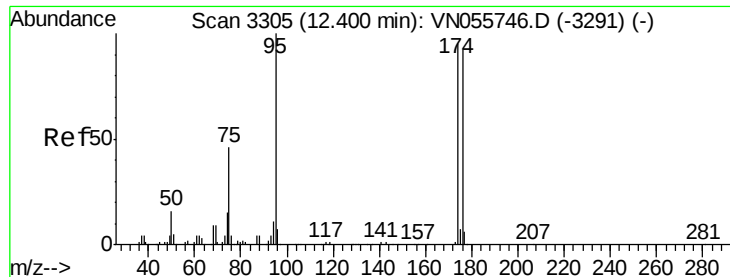
100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

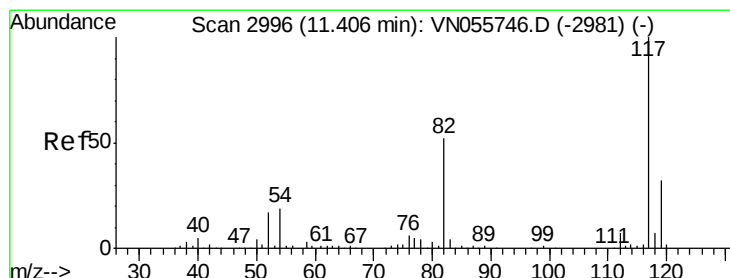
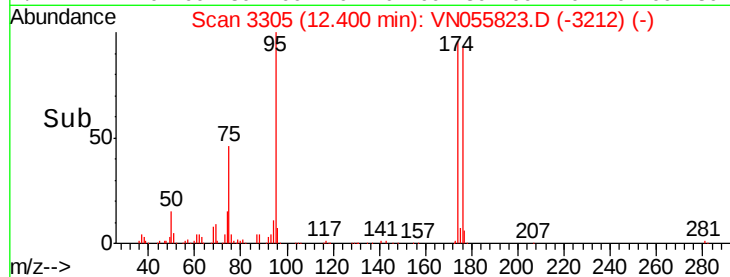
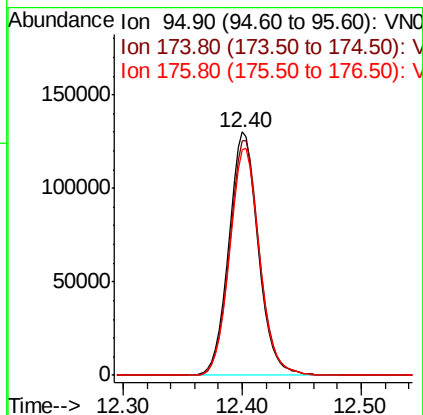
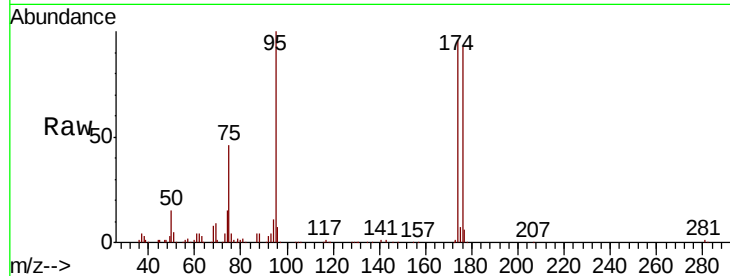




#62
 4-Bromofluorobenzene
 Concen: 44.760 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055823.D
 Acq: 25 May 2019 3:24

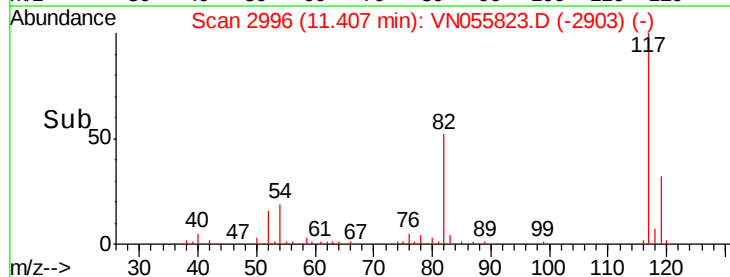
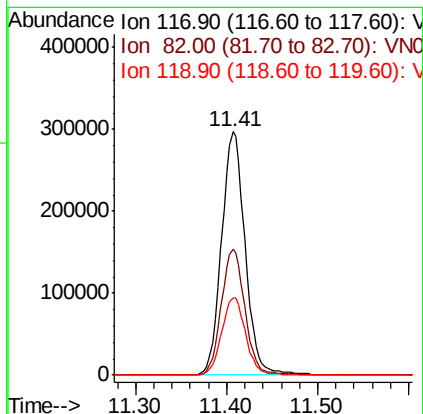
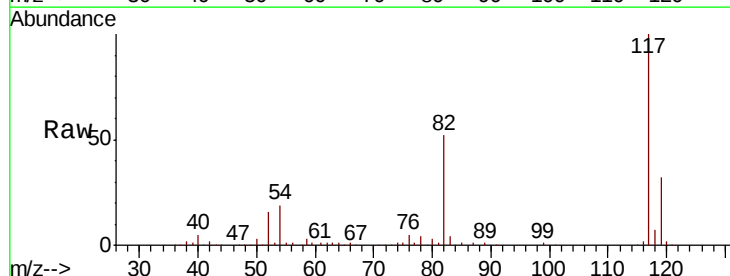
Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-3

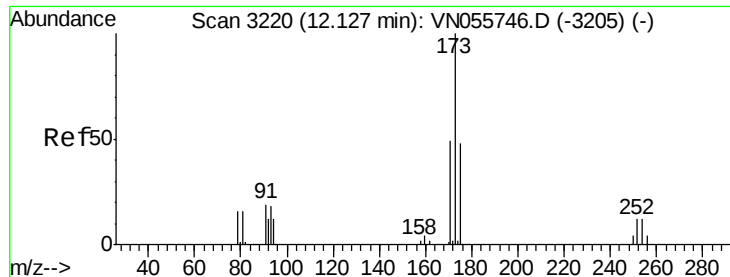
Tot Ion: 95 Resp: 222292
 Ion Ratio Lower Upper
 95 100
 174 98.1 0.0 191.0
 176 94.9 0.0 185.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN055823.D
 Acq: 25 May 2019 3:24

Tgt Ion: 117 Resp: 535951
 Ion Ratio Lower Upper
 117 100
 82 51.8 41.8 62.8
 119 31.9 25.4 38.0

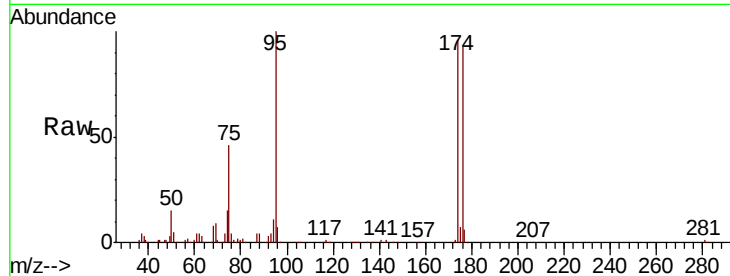




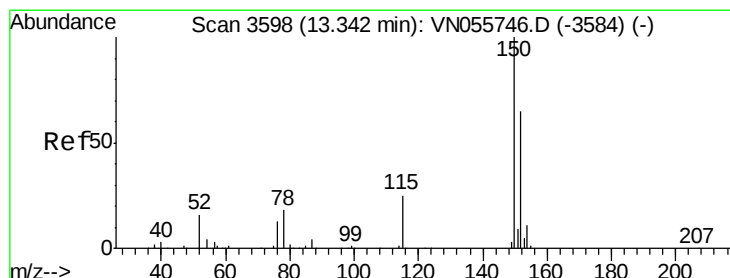
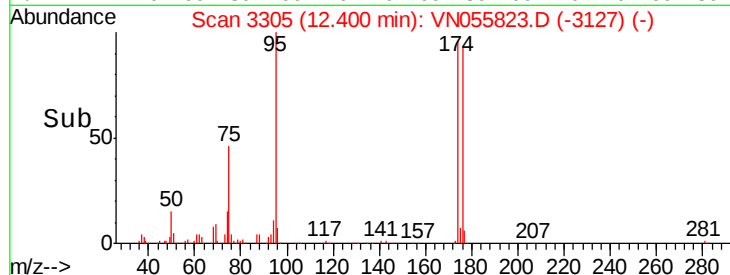
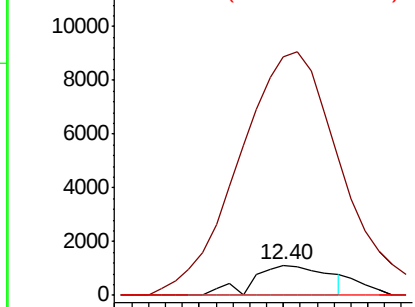
#71
Bromoform
Concen: 0.381 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055823.D
Acq: 25 May 2019 3:24

Instrument :
MSVOA_N
ClientSampleId :
MW2-R1-3

Tot Ion:173 Resp: 1389
Ion Ratio Lower Upper
173 100
175 956.7 24.3 72.8#
254 0.0 0.0 0.0

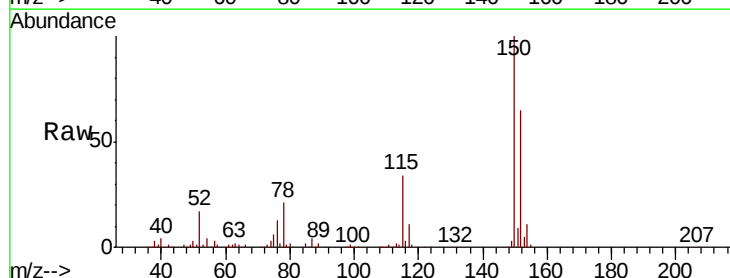


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

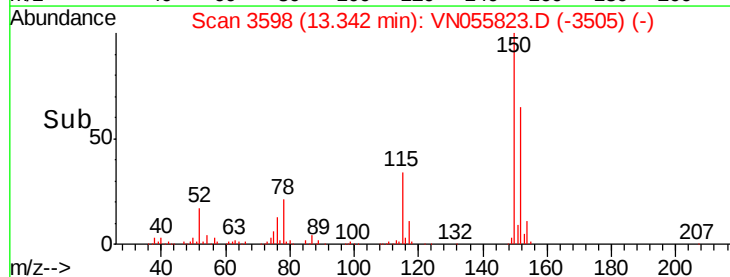
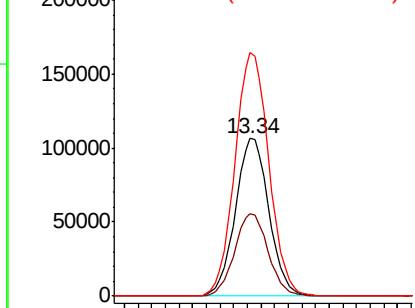


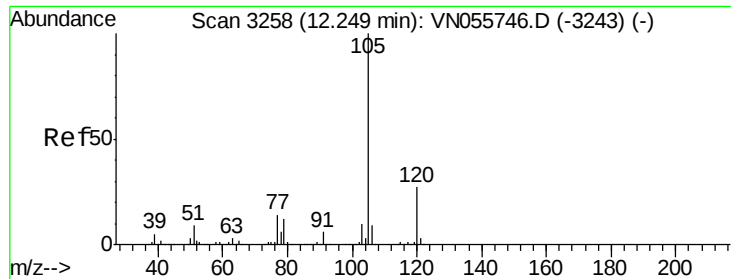
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055823.D
Acq: 25 May 2019 3:24

Tgt Ion:152 Resp: 181326
Ion Ratio Lower Upper
152 100
115 52.3 27.0 81.0
150 156.7 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: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN055823.D

Acq: 25 May 2019 3:24

Instrument :

MSVOA_N

ClientSampled :

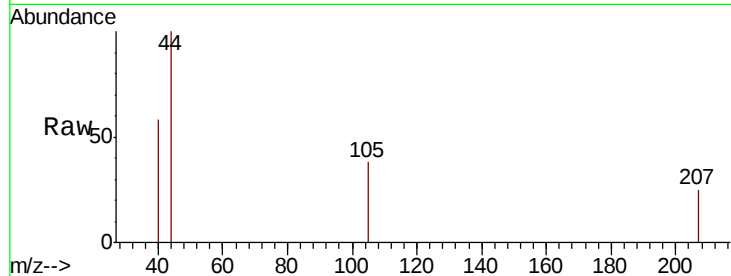
MW2-R1-3

Tot Ion: 105 Resp: 237

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

12.24

250

200

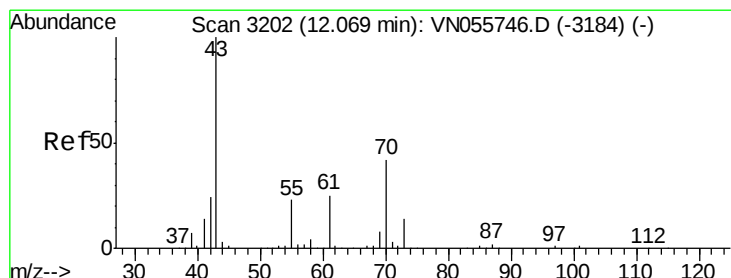
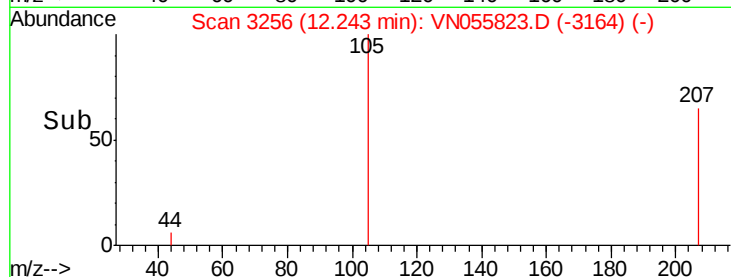
150

100

50

0

Time--> 12.22 12.24 12.26



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.04 min Scan# 3192

Delta R.T. -0.03 min

Lab File: VN055823.D

Acq: 25 May 2019 3:24

Tgt Ion: 43 Resp: 432

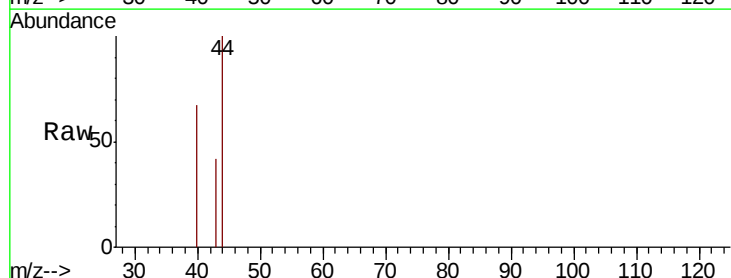
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

12.04

400

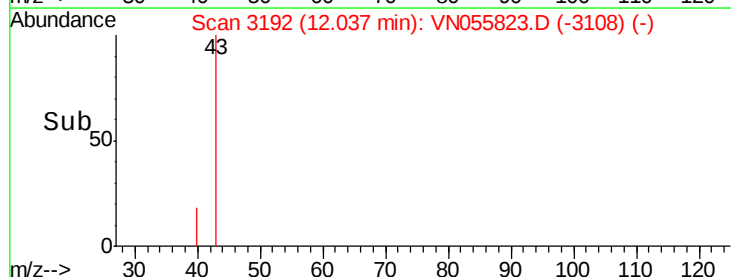
300

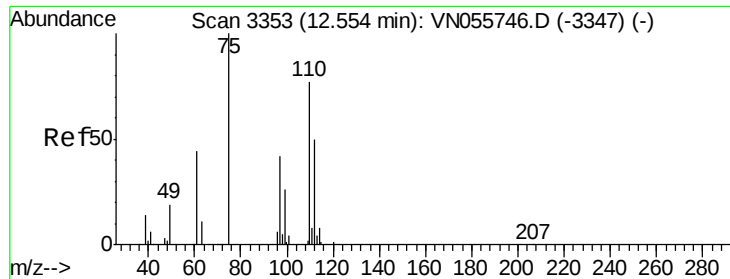
200

100

0

Time--> 12.00 12.02 12.04 12.06





#76

1,2,3-Trichloropropane

Concen: 31.942 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055823.D

Acq: 25 May 2019 3:24

Instrument :

MSVOA_N

ClientSampled :

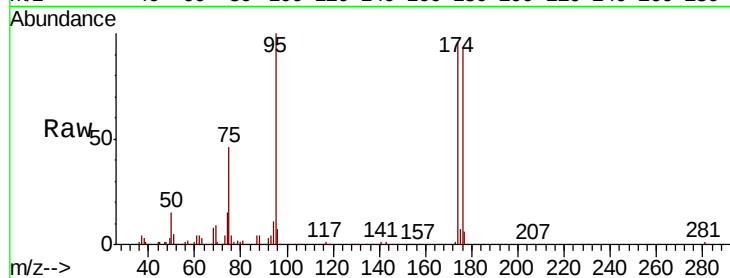
MW2-R1-3

Tot Ion: 75 Resp: 103282

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

60000

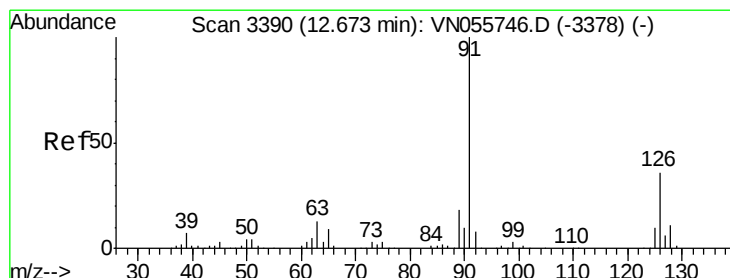
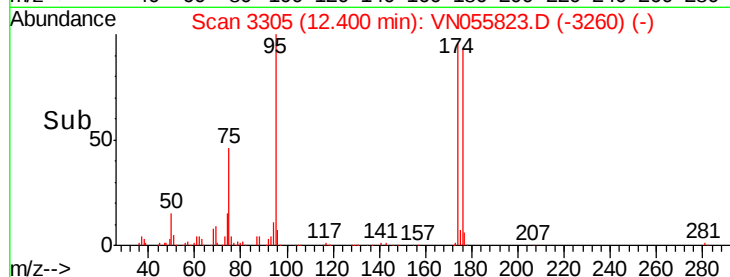
12.40

40000

20000

0

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN055823.D

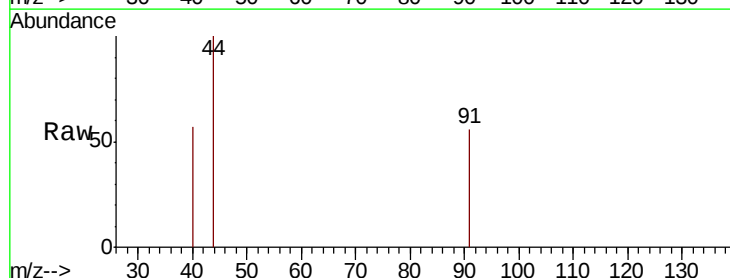
Acq: 25 May 2019 3:24

Tgt Ion: 91 Resp: 526

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

400

12.59

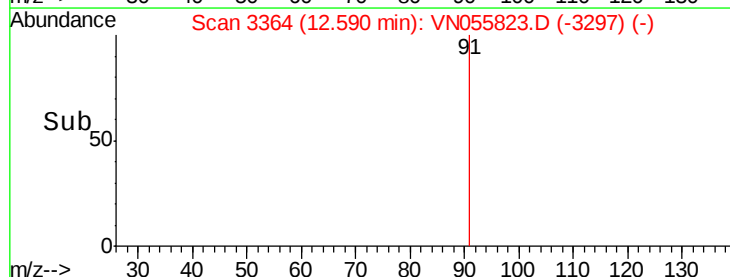
300

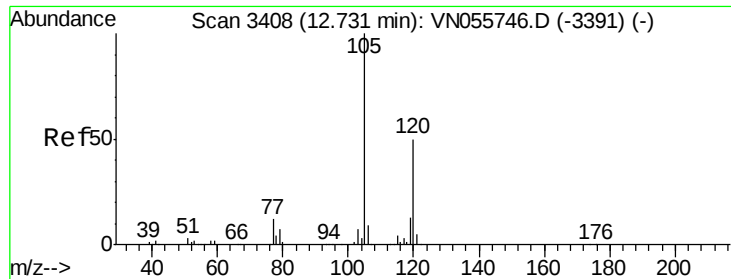
200

100

0

Time-->

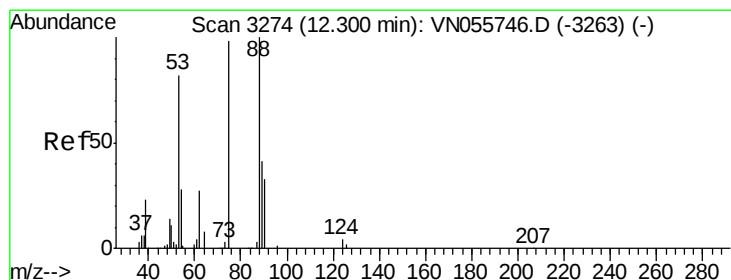
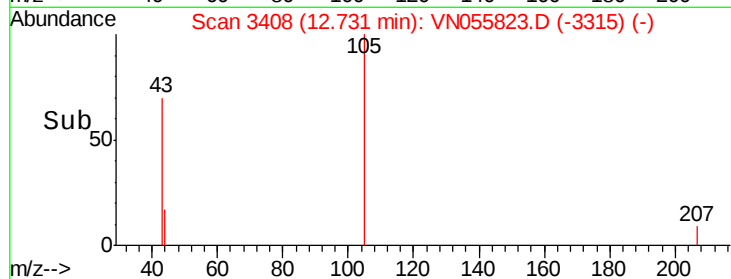
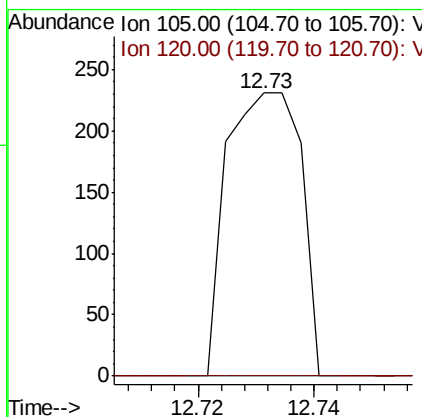
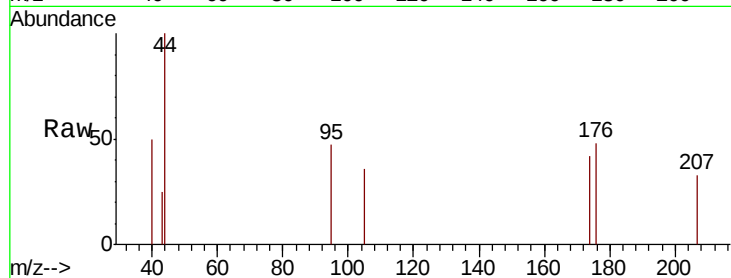




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055823.D
 Acq: 25 May 2019 3:24

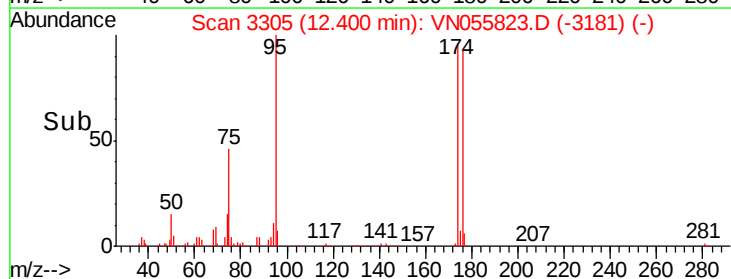
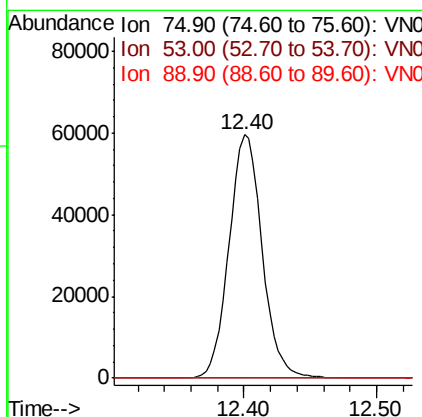
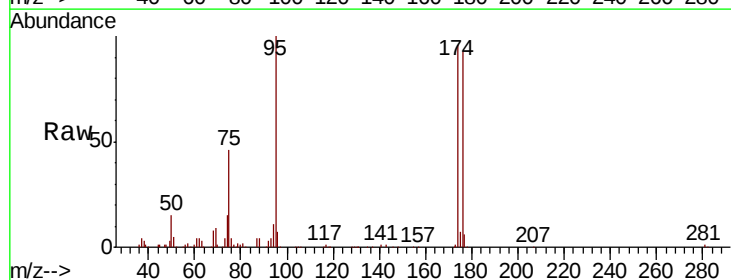
Instrument :
 MSVOA_N
 ClientSampled :
 MW2-R1-3

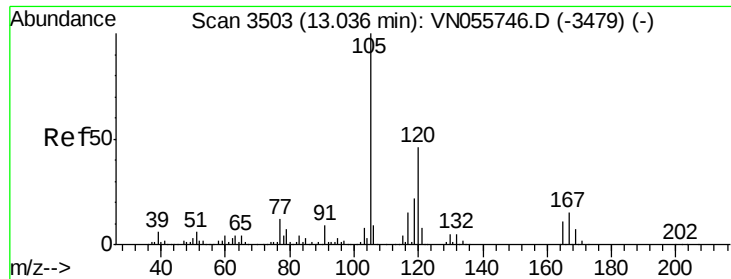
Tot Ion: 105 Resp: 204
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.7 74.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.638 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055823.D
 Acq: 25 May 2019 3:24

Tgt Ion: 75 Resp: 103282
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#

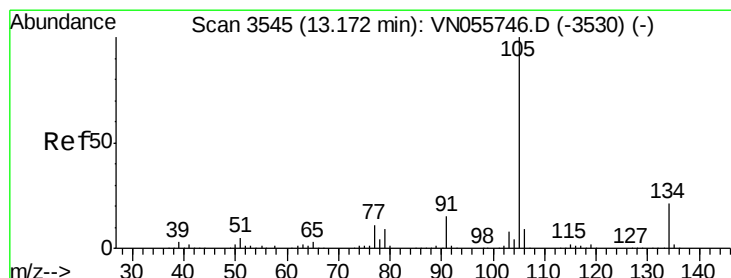
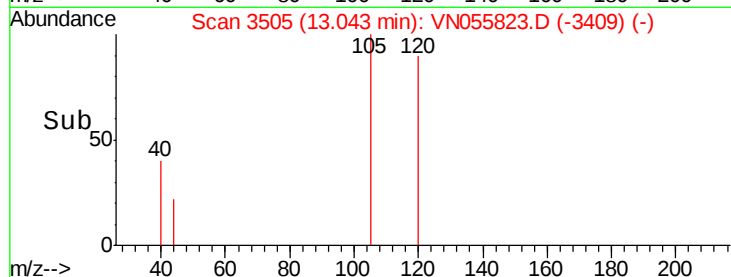
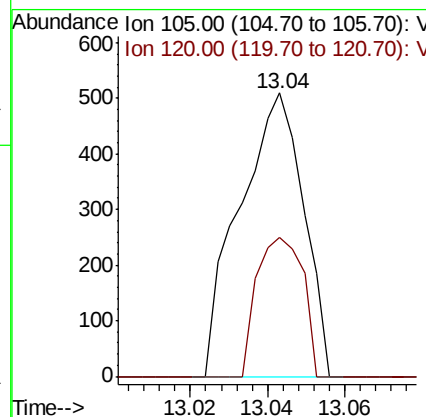
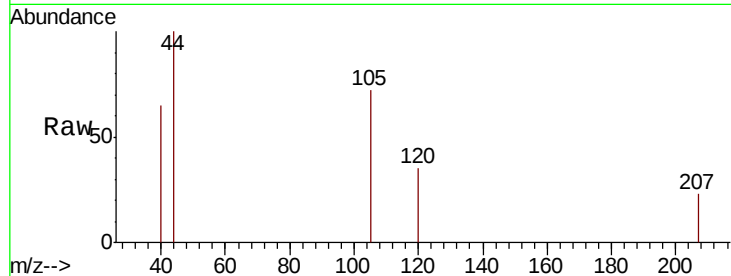




#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3505
Delta R.T. 0.01 min
Lab File: VN055823.D
Acq: 25 May 2019 3:24

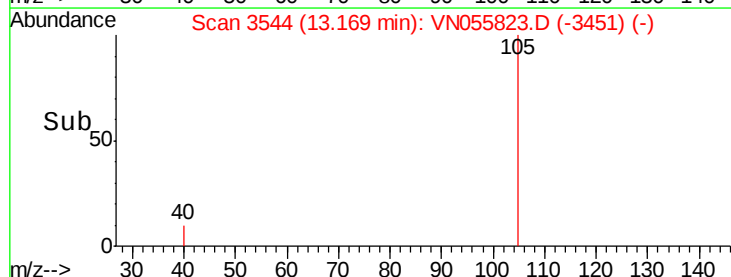
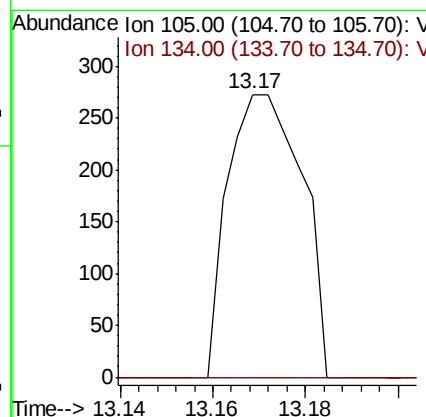
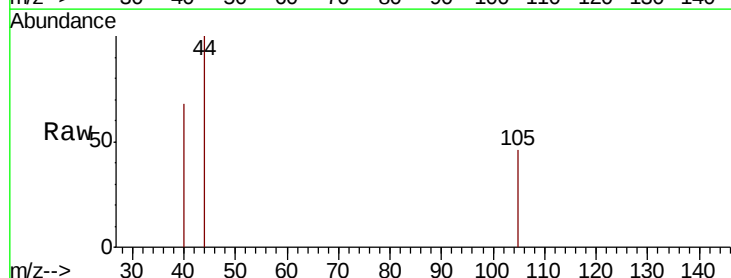
Instrument :
MSVOA_N
ClientSampleId :
MW2-R1-3

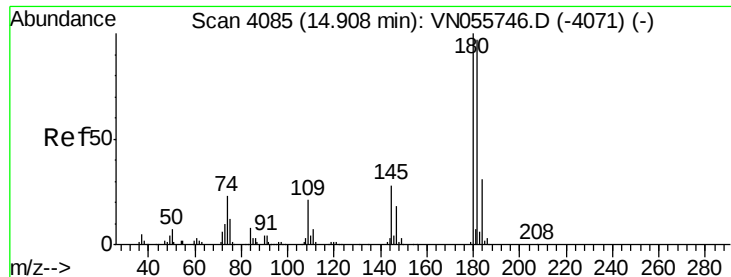
Tot Ion:105 Resp: 585
Ion Ratio Lower Upper
105 100
120 35.4 23.0 69.0



#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3544
Delta R.T. -0.00 min
Lab File: VN055823.D
Acq: 25 May 2019 3:24

Tgt Ion:105 Resp: 303
Ion Ratio Lower Upper
105 100
134 0.0 10.4 31.2#





#93

1,2,4-Trichlorobenzene

Concen: 3.729 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055823.D

Acq: 25 May 2019 3:24

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-3

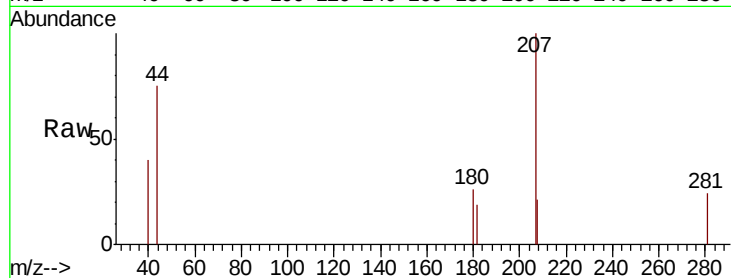
Tot Ion:180 Resp: 349

Ion Ratio Lower Upper

180 100

182 83.7 48.3 144.9

145 0.0 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

