

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055849.D
 Acq On : 28 May 2019 13:41
 Operator : JC/SP
 Sample : K3041-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: May 28 17:38:15 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	428750	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	602089	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	542137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	197088	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	202239	45.67	ug/l	0.00
Spiked Amount						
			Recovery	=	91.34%	
35) Dibromofluoromethane	7.59	113	180594	47.44	ug/l	0.00
Spiked Amount						
			Recovery	=	94.88%	
50) Toluene-d8	10.09	98	712784	48.81	ug/l	0.00
Spiked Amount						
			Recovery	=	97.62%	
62) 4-Bromofluorobenzene	12.40	95	230776	46.09	ug/l	0.00
Spiked Amount						
			Recovery	=	92.18%	

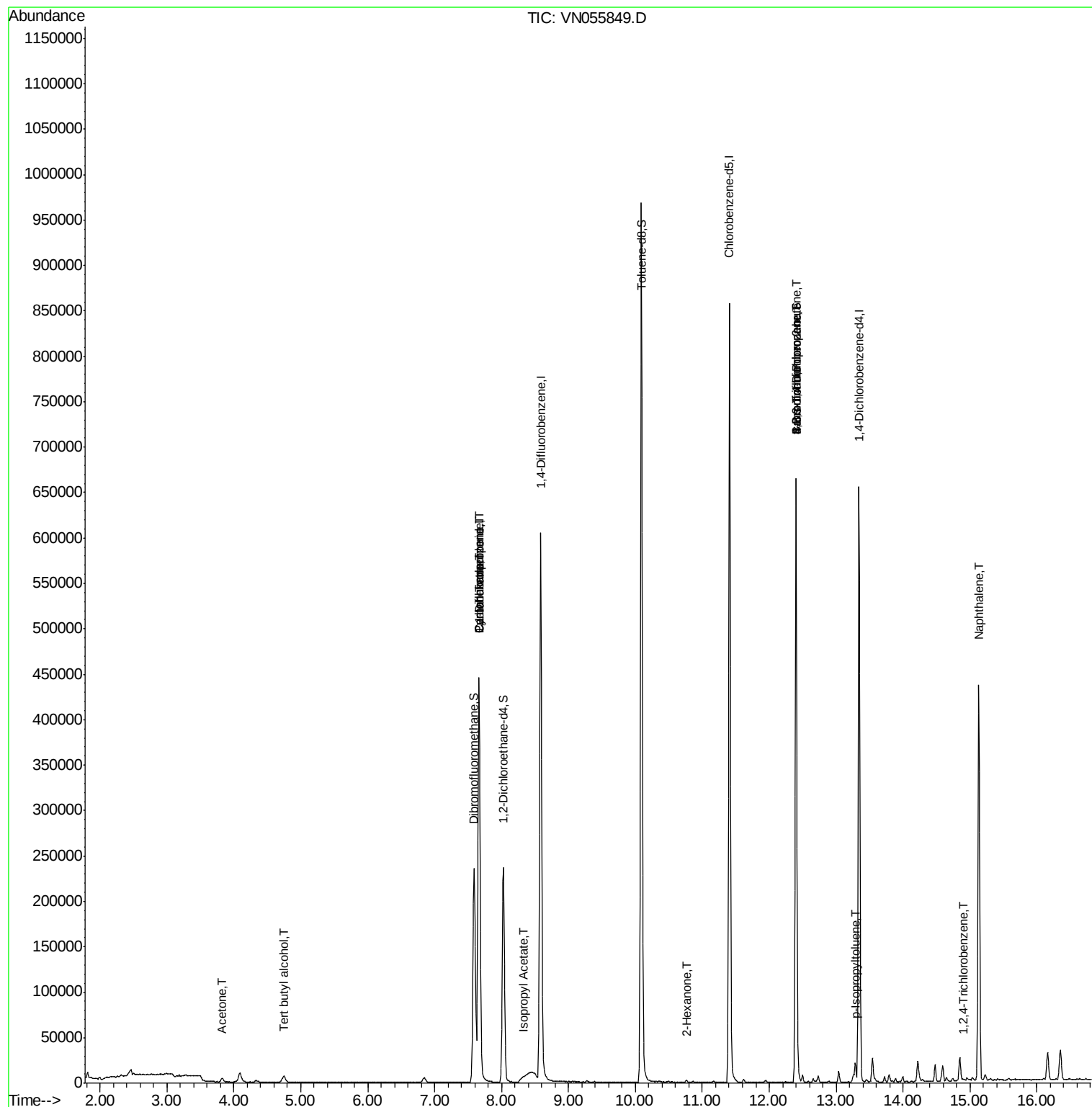
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	6729	7.954	ug/l #	74
16) Acetone	3.82	43	7401	3.802	ug/l	89
18) Methyl Acetate	4.33	43	3916	Below Cal	#	74
31) Cyclohexane	7.66	56	6080	0.915	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23664	4.510	ug/l #	48
38) Carbon Tetrachloride	7.66	117	34843	6.375	ug/l #	14
43) Isopropyl Acetate	8.31	43	5432	0.638	ug/l #	53
59) 2-Hexanone	10.77	43	1078	0.302	ug/l #	23
71) Bromoform	12.40	173	1756	0.476	ug/l #	1
73) Isopropylbenzene	12.25	105	797	Below Cal	#	71
74) N-amyl acetate	12.08	43	297	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	105590	29.845	ug/l #	100
79) 2-Chlorotoluene	12.65	91	520	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	3771	Below Cal		98
81) trans-1,4-Dichloro-2-buten	12.40	75	105590	72.084	ug/l #	15
83) tert-Butylbenzene	13.04	119	960	Below Cal	#	52
84) 1,2,4-Trimethylbenzene	13.04	105	8095	Below Cal		99
85) sec-Butylbenzene	13.17	105	510	Below Cal	#	55
86) p-Isopropyltoluene	13.29	119	13084	0.956	ug/l	92
93) 1,2,4-Trichlorobenzene	14.90	180	492	3.756	ug/l #	78
94) Hexachlorobutadiene	15.00	225	30	Below Cal	#	19
95) Naphthalene	15.13	128	402007	44.094	ug/l	99

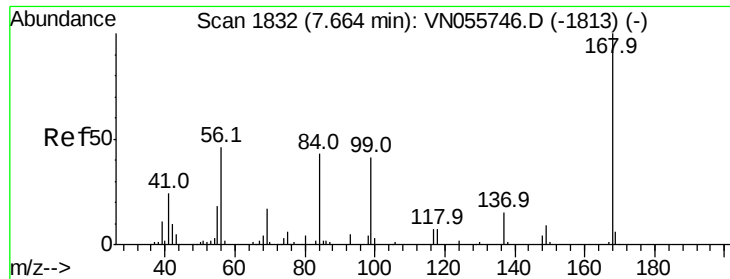
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055849.D

Acq: 28 May 2019 13:41

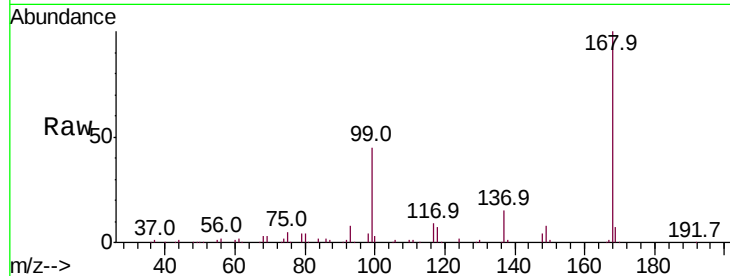
Instrument :
MSVOA_N
ClientSampled :
TP-2

Tot Ion:168 Resp: 428750

Ion Ratio Lower Upper

168 100

99 45.3 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

200000

150000

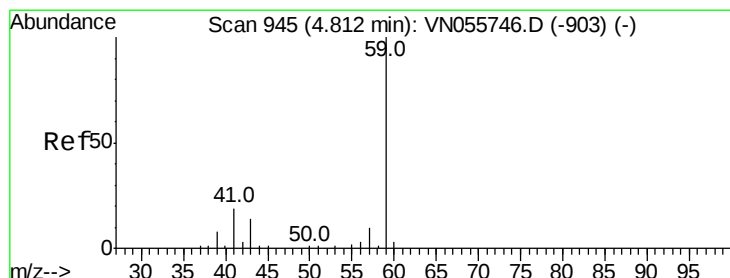
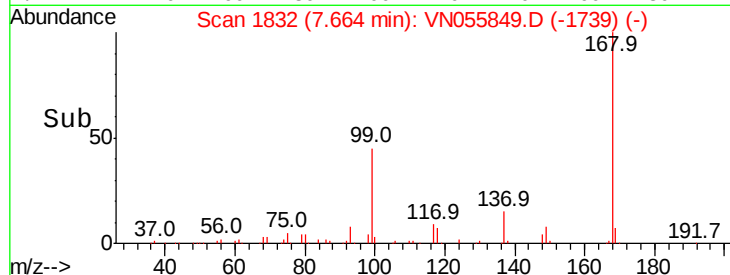
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 7.954 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.07 min

Lab File: VN055849.D

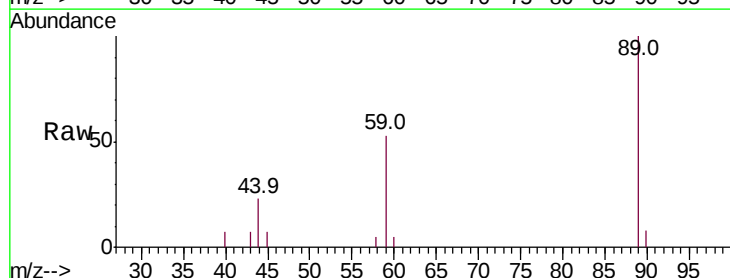
Acq: 28 May 2019 13:41

Tgt Ion: 59 Resp: 6729

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

2000

1500

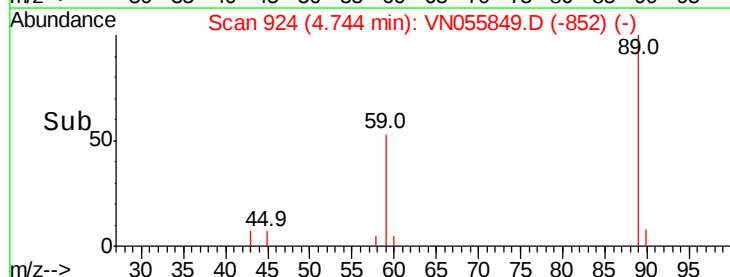
1000

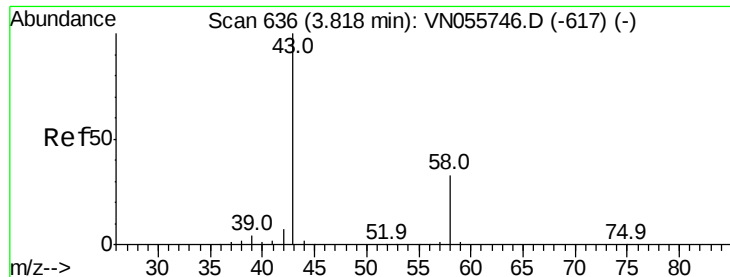
500

0

4.65 4.70 4.75 4.80 4.85

Time-->





#16

Acetone

Concen: 3.802 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

Instrument :

MSVOA_N

ClientSampled :

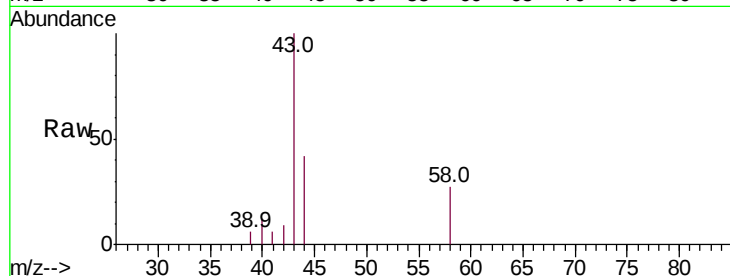
TP-2

Tot Ion: 43 Resp: 7401

Ion Ratio Lower Upper

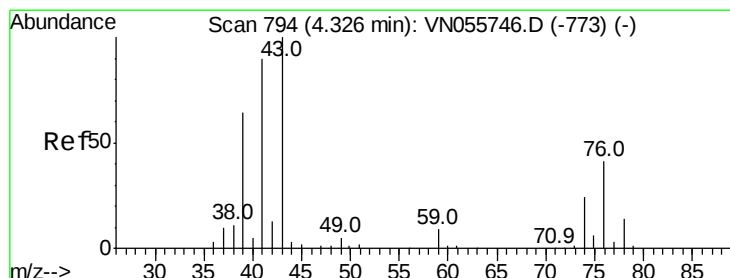
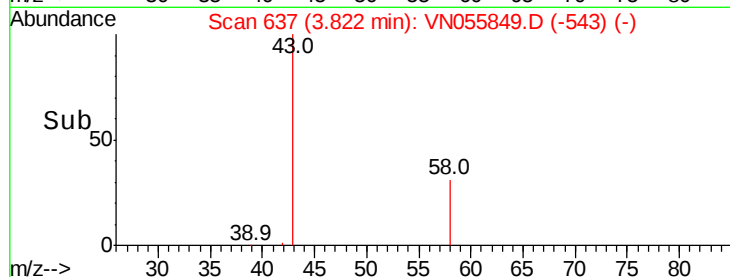
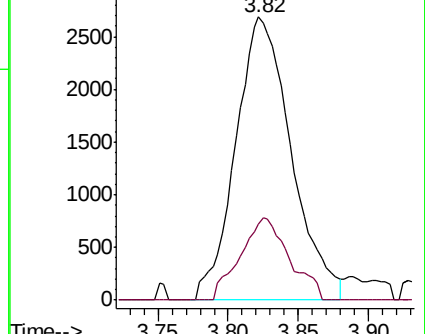
43 100

58 26.8 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# 794

Delta R.T. 0.00 min

Lab File: VN055849.D

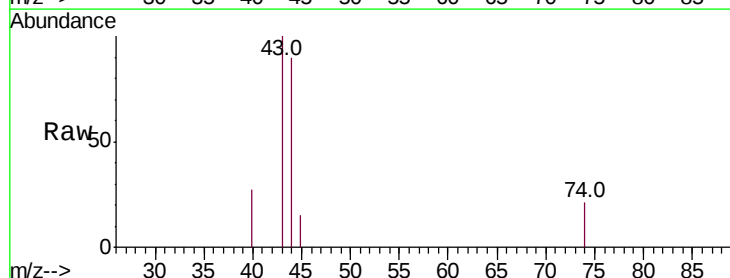
Acq: 28 May 2019 13:41

Tgt Ion: 43 Resp: 3916

Ion Ratio Lower Upper

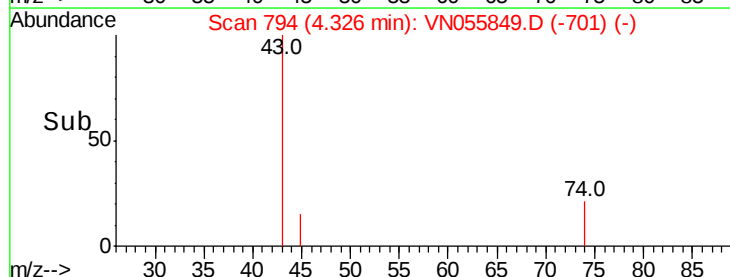
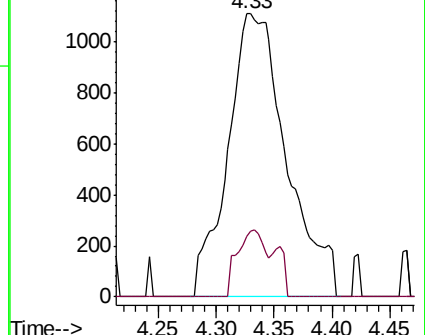
43 100

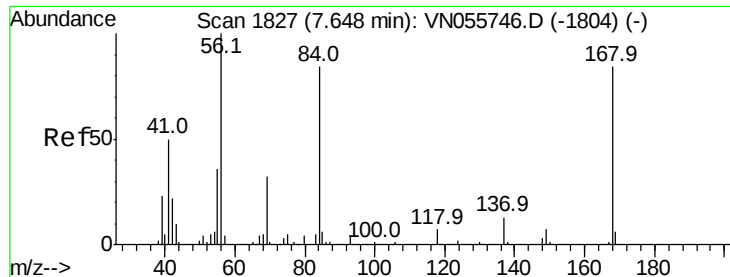
74 11.1 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: 0.915 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

Instrument :

MSVOA_N

ClientSampled :

TP-2

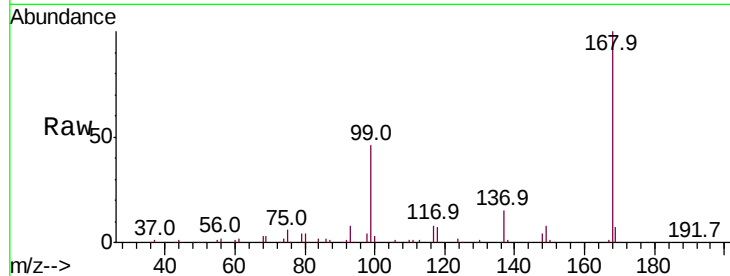
Tot Ion: 56 Resp: 6080

Ion Ratio Lower Upper

56 100

69 173.5 25.6 38.4#

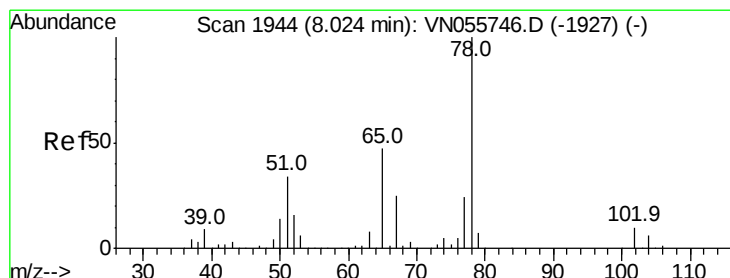
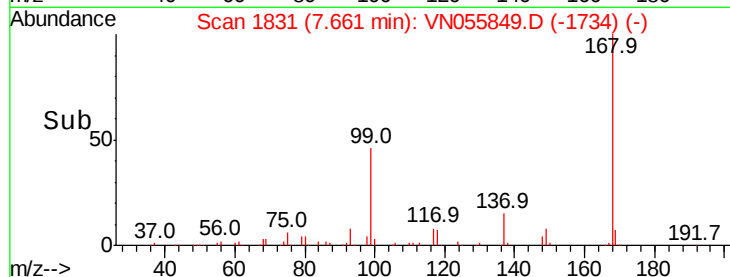
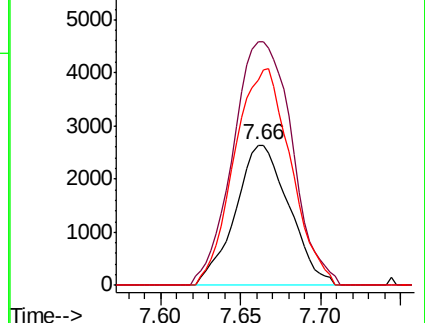
84 146.2 67.4 101.0#



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: 45.675 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055849.D

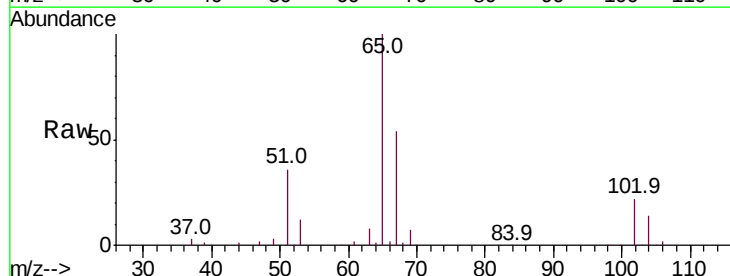
Acq: 28 May 2019 13:41

Tgt Ion: 65 Resp: 202239

Ion Ratio Lower Upper

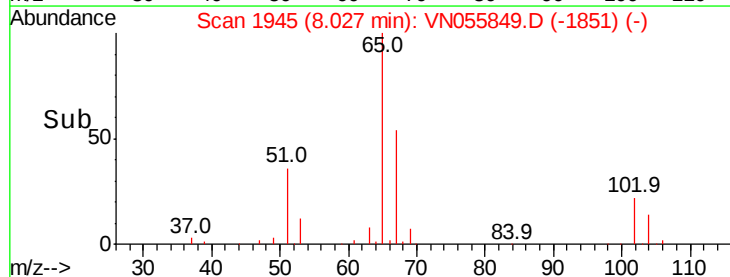
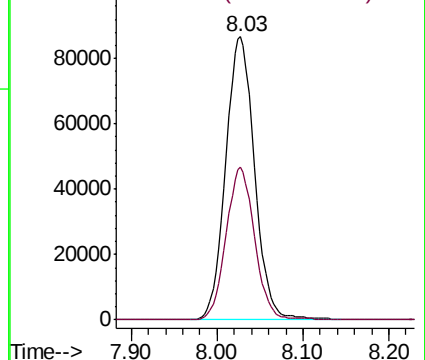
65 100

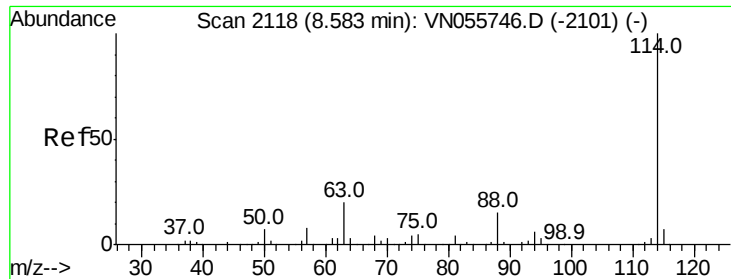
67 53.0 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

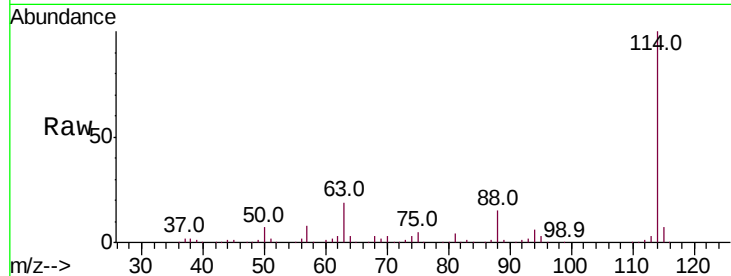




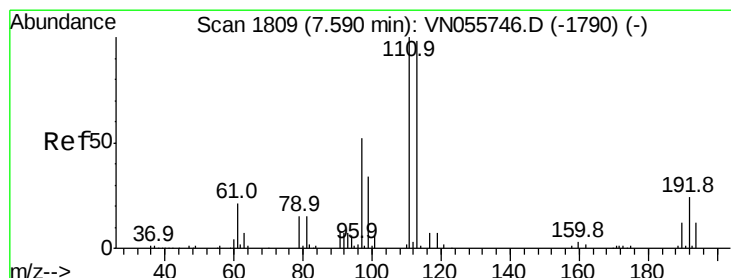
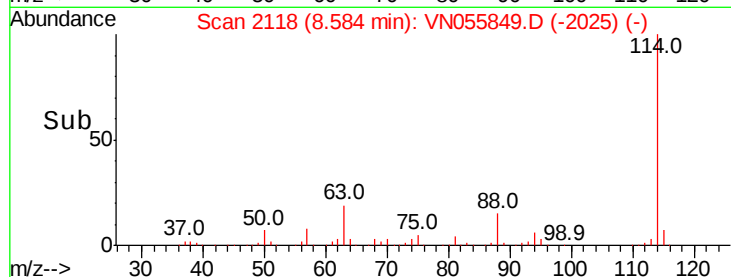
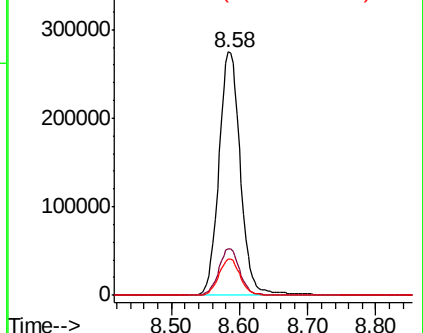
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

Tot Ion:114 Resp: 602089
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.2
 88 14.9 0.0 31.0

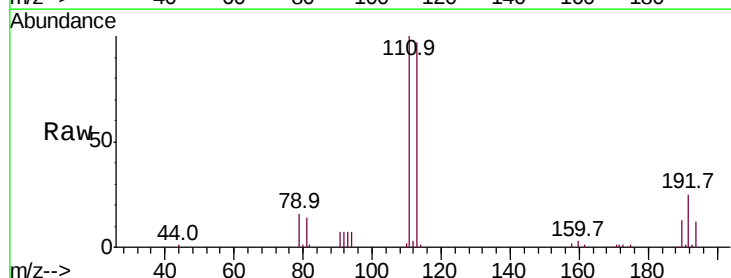


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

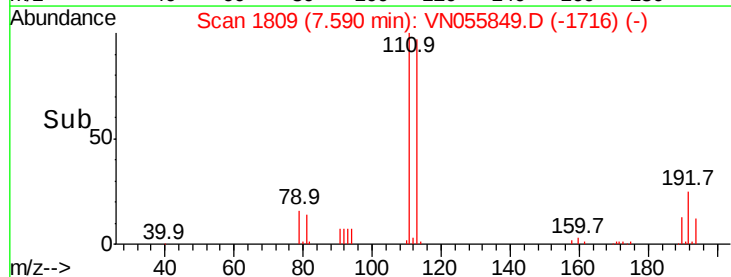
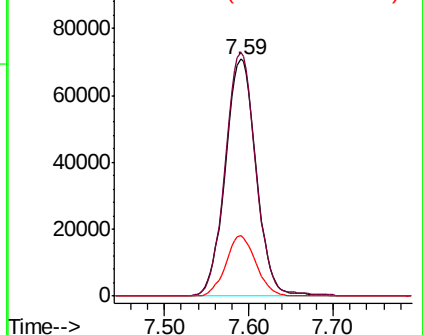


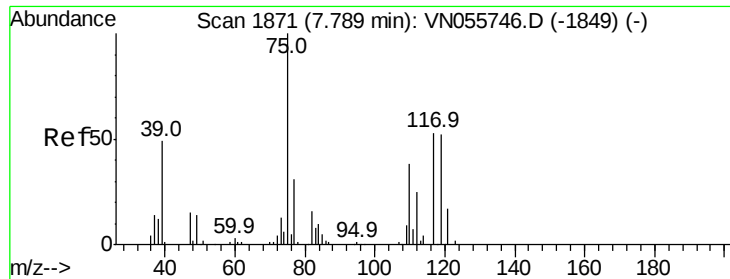
#35
 Dibromofluoromethane
 Concen: 47.442 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

Tgt Ion:113 Resp: 180594
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.9 122.9
 192 24.9 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

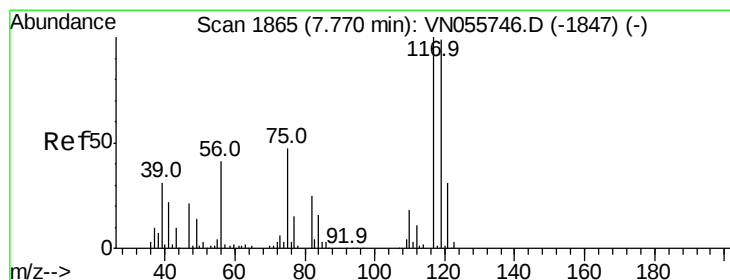
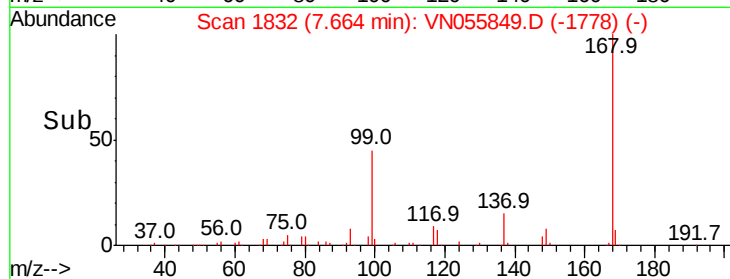
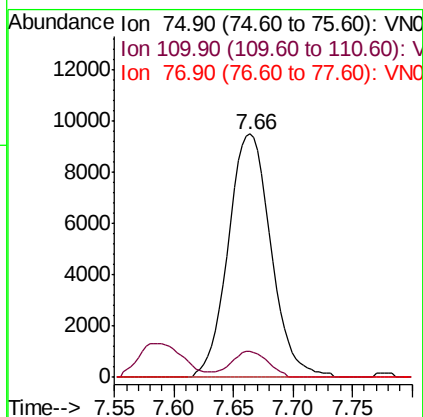
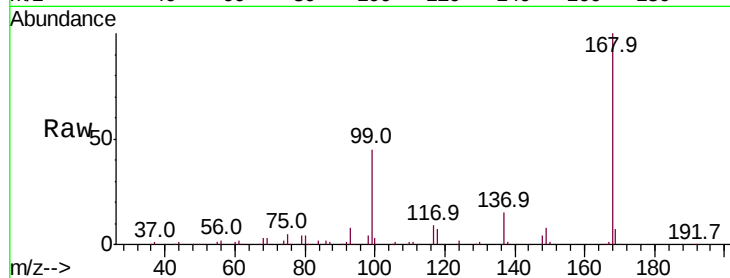




#36
 1,1-Dichloropropene
 Concen: 4.510 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

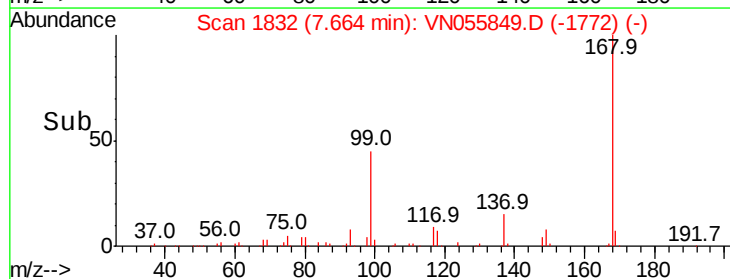
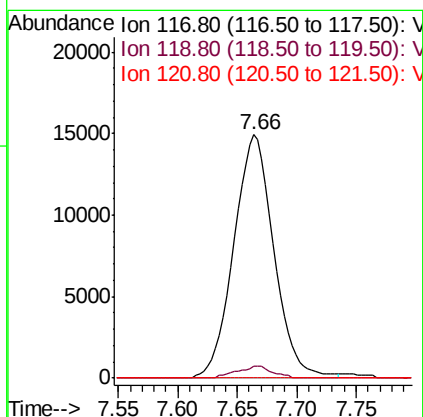
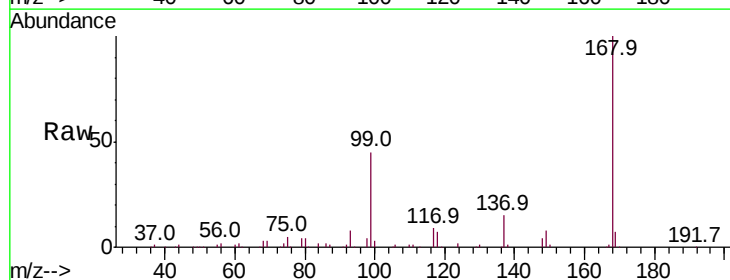
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

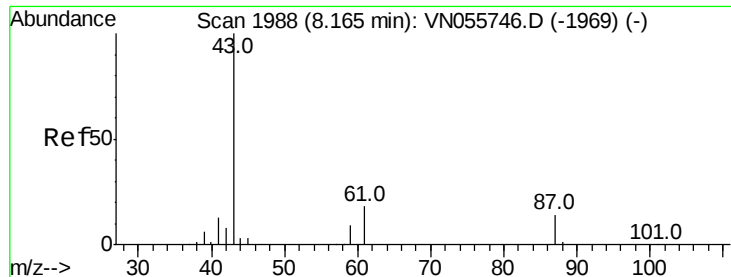
Tot Ion	75	Resp	23664
Ion Ratio	Lower	Upper	
75	100		
110	9.3	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.375 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

Tgt Ion	117	Resp	34843
Ion Ratio	Lower	Upper	
117	100		
119	4.7	79.0	118.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.638 ug/l

RT: 8.31 min Scan# 2034

Delta R.T. 0.15 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

Instrument :

MSVOA_N

ClientSampled :

TP-2

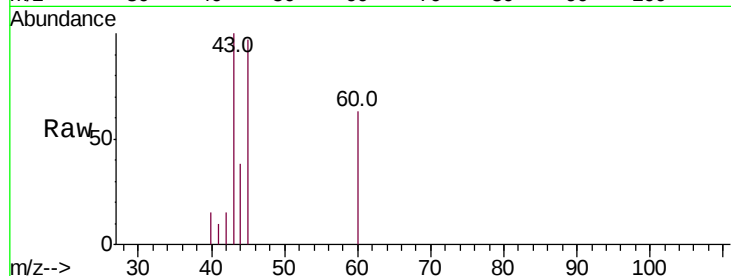
Tot Ion: 43 Resp: 5432

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

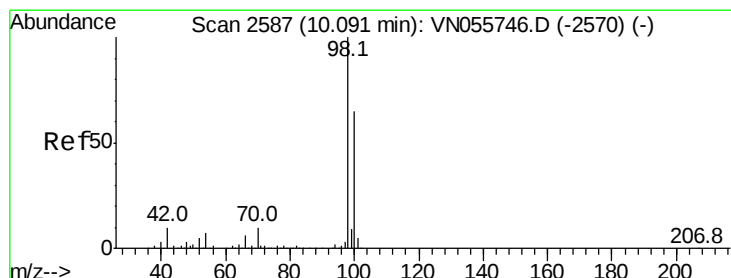
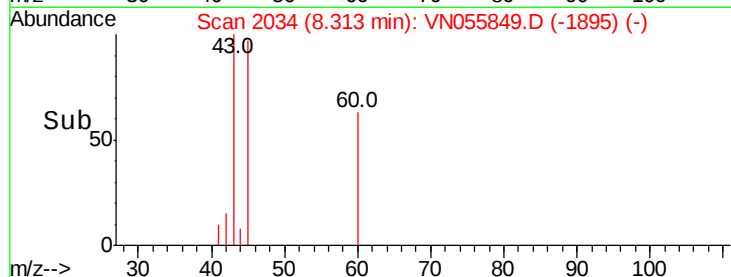
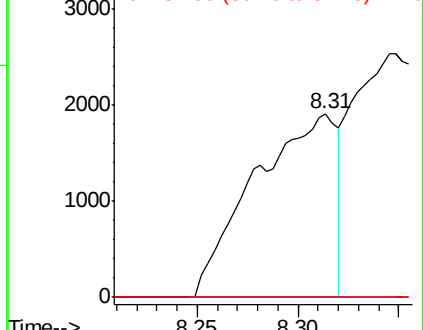
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#50

Toluene-d8

Concen: 48.815 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055849.D

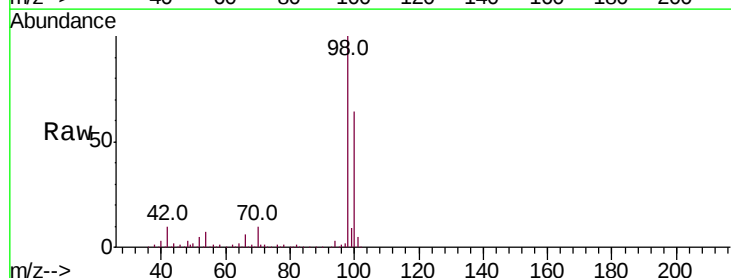
Acq: 28 May 2019 13:41

Tgt Ion: 98 Resp: 712784

Ion Ratio Lower Upper

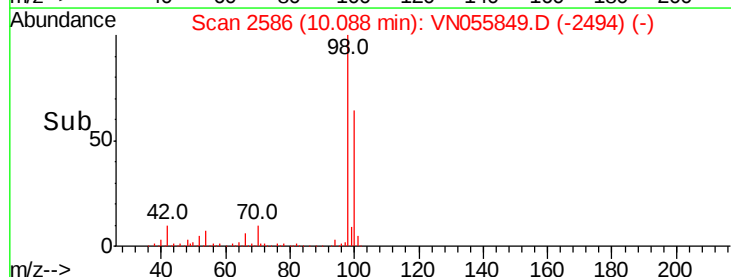
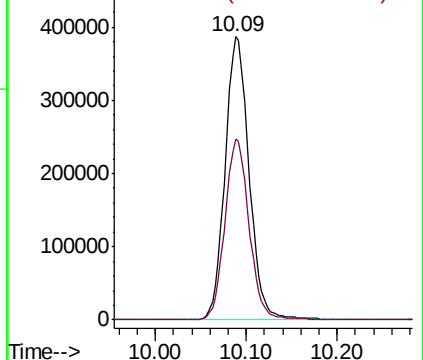
98 100

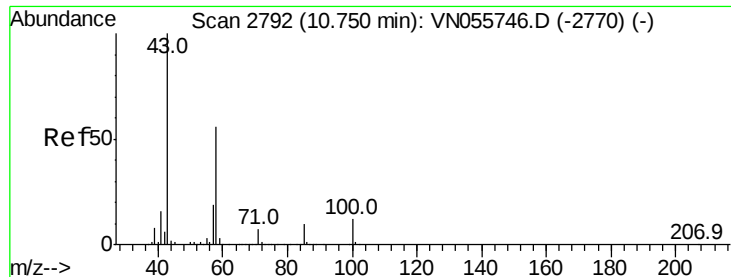
100 64.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VNC

Ion 100.00 (99.70 to 100.70): VNC





#59

2-Hexanone

Concen: 0.302 ug/l

RT: 10.77 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

Instrument :

MSVOA_N

ClientSampled :

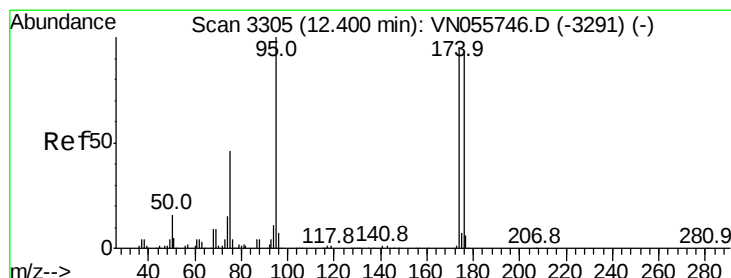
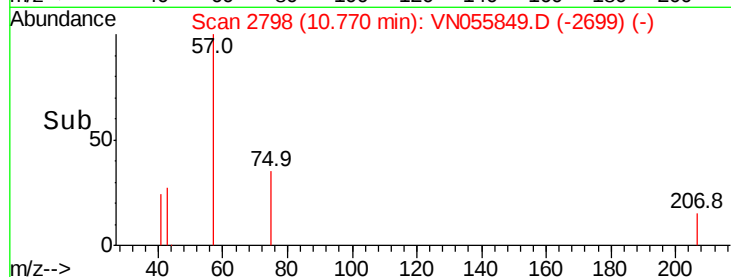
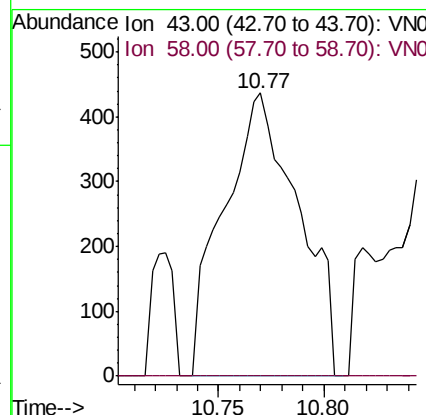
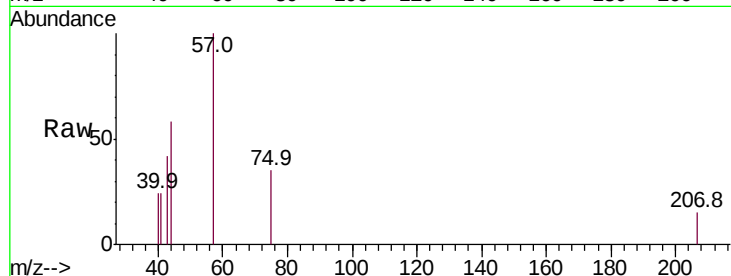
TP-2

Tot Ion: 43 Resp: 1078

Ion Ratio Lower Upper

43 100

58 0.0 28.2 84.7#



#62

4-Bromofluorobenzene

Concen: 46.093 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

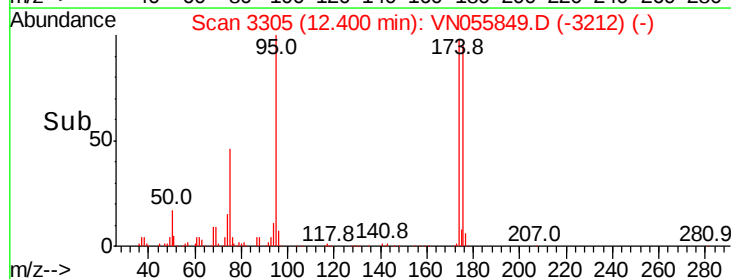
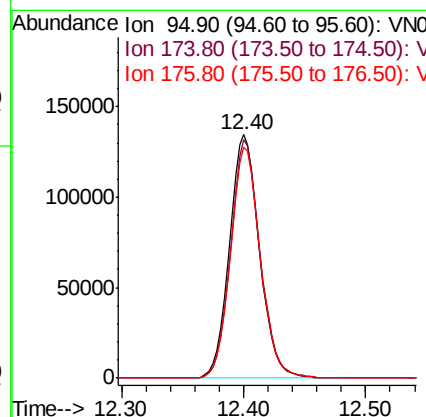
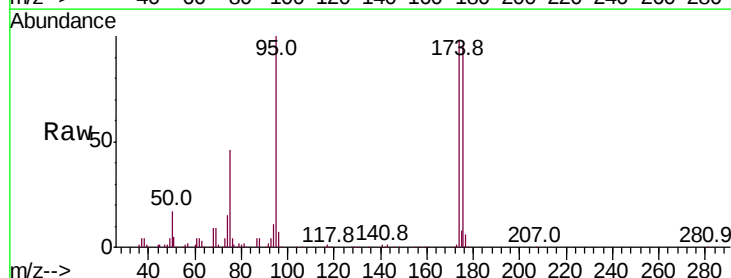
Tgt Ion: 95 Resp: 230776

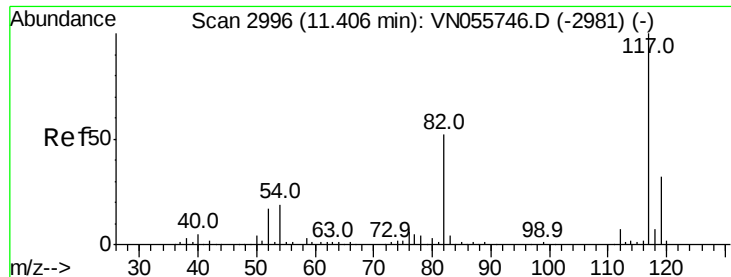
Ion Ratio Lower Upper

95 100

174 96.4 0.0 191.0

176 94.3 0.0 185.2

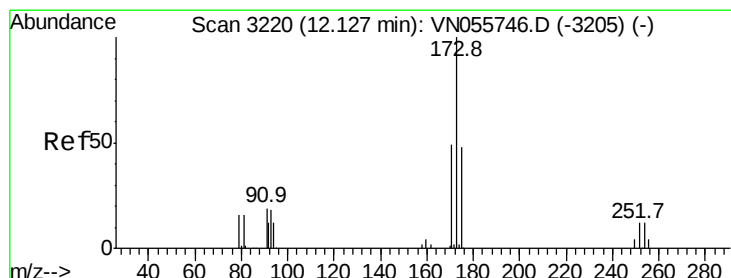
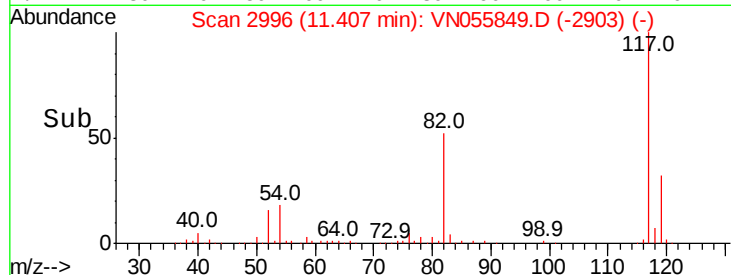
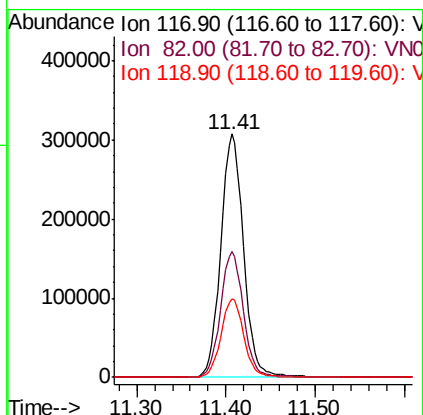
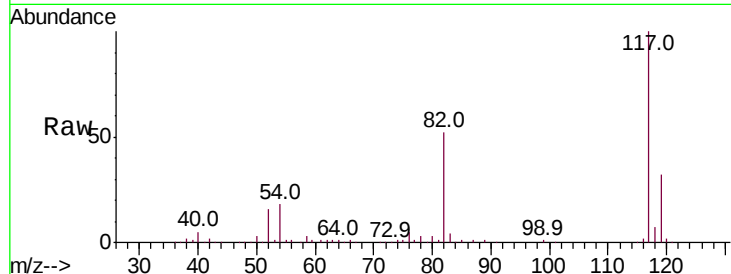




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

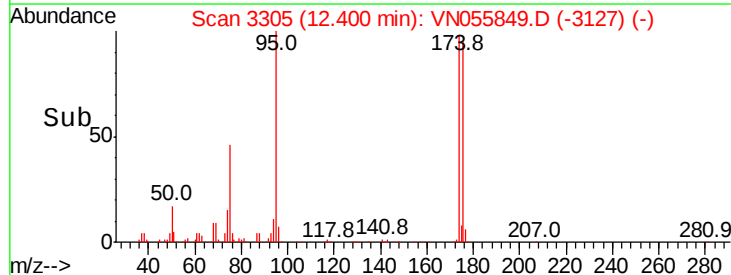
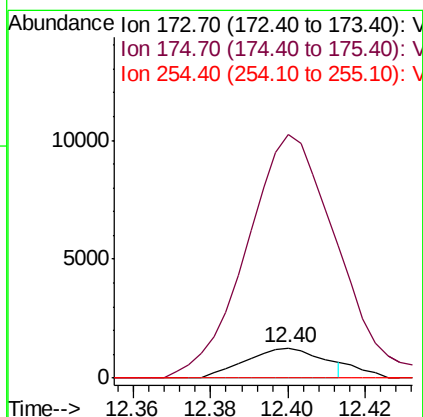
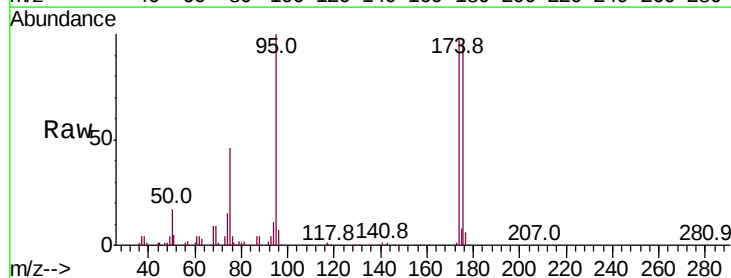
Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

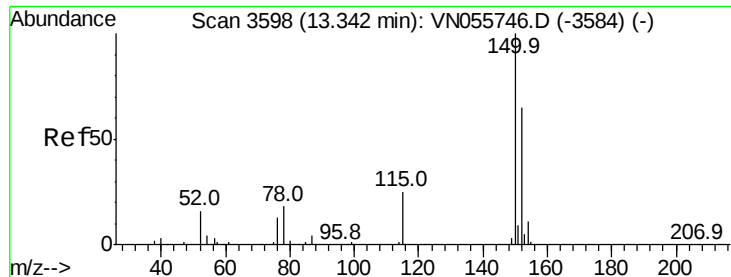
Tot Ion:117 Resp: 542137
 Ion Ratio Lower Upper
 117 100
 82 51.5 41.8 62.8
 119 32.3 25.4 38.0



#71
 Bromoform
 Concen: 0.476 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.27 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

Tgt Ion:173 Resp: 1756
 Ion Ratio Lower Upper
 173 100
 175 832.1 24.3 72.8#
 254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

Instrument :

MSVOA_N

ClientSampled :

TP-2

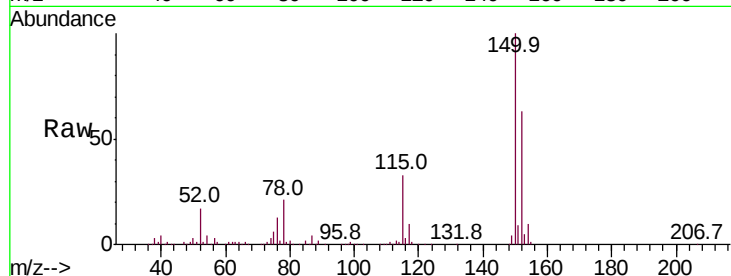
Tot Ion:152 Resp: 197088

Ion Ratio Lower Upper

152 100

115 53.4 27.0 81.0

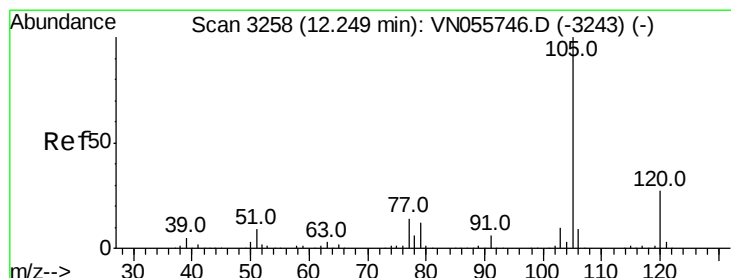
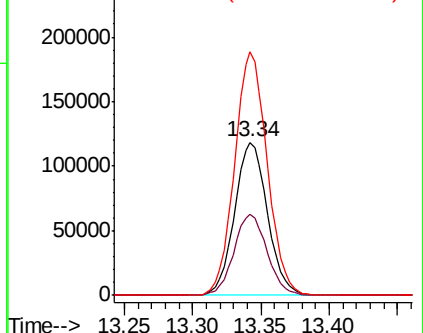
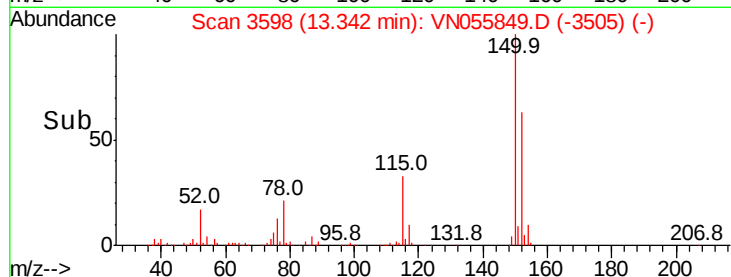
150 158.3 0.0 343.2



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: VN055849.D

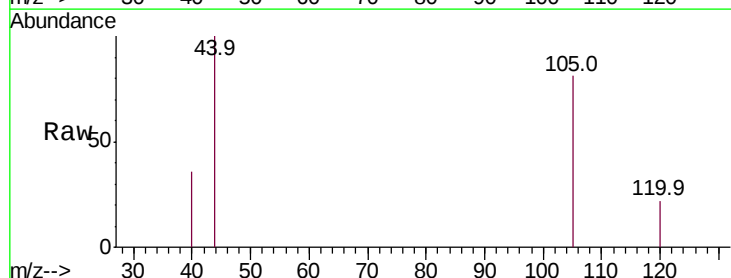
Acq: 28 May 2019 13:41

Tgt Ion:105 Resp: 797

Ion Ratio Lower Upper

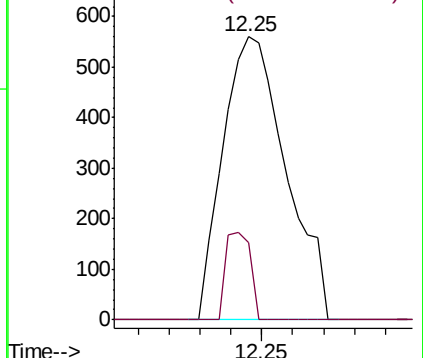
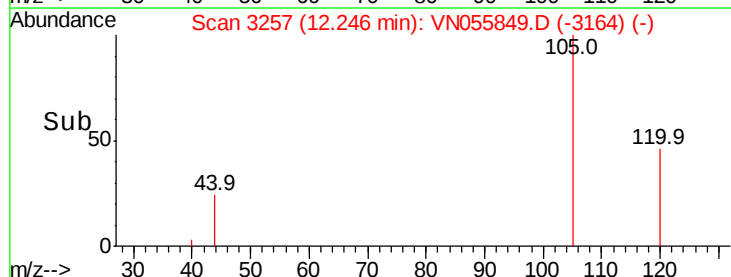
105 100

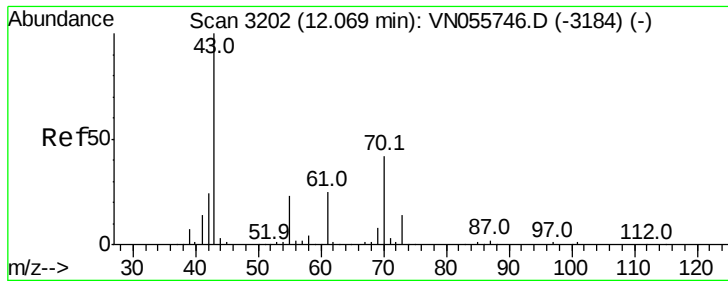
120 11.9 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.08 min Scan# 3206

Delta R.T. 0.01 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

Instrument :

MSVOA_N

ClientSampled :

TP-2

Tot Ion: 43 Resp: 297

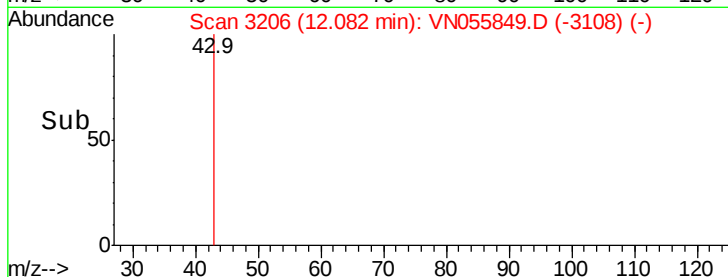
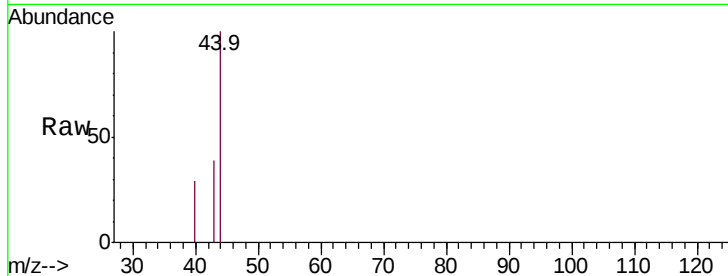
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

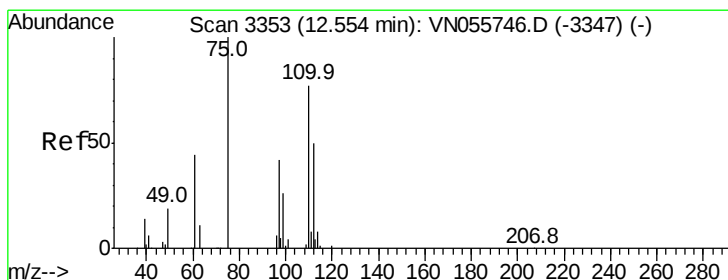
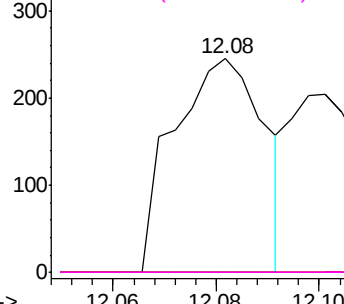


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 29.845 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055849.D

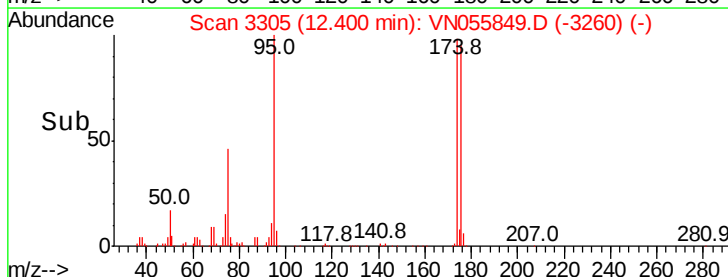
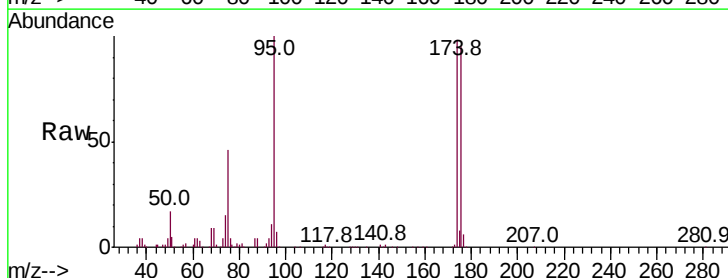
Acq: 28 May 2019 13:41

Tgt Ion: 75 Resp: 105590

Ion Ratio Lower Upper

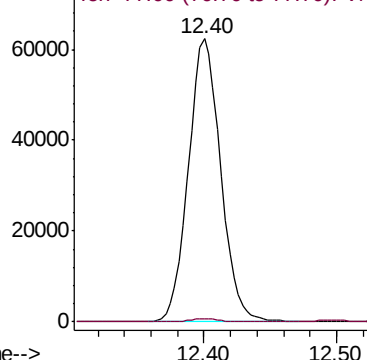
75 100

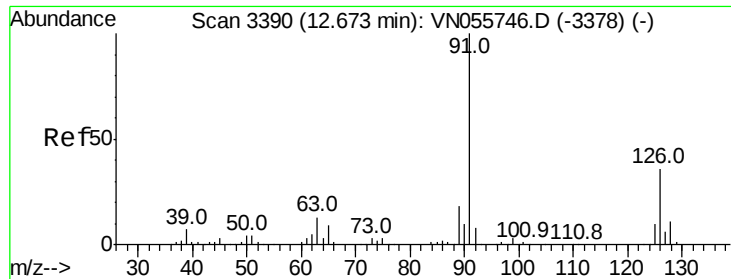
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.65 min Scan# 3384

Delta R.T. -0.02 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

Instrument :

MSVOA_N

ClientSampled :

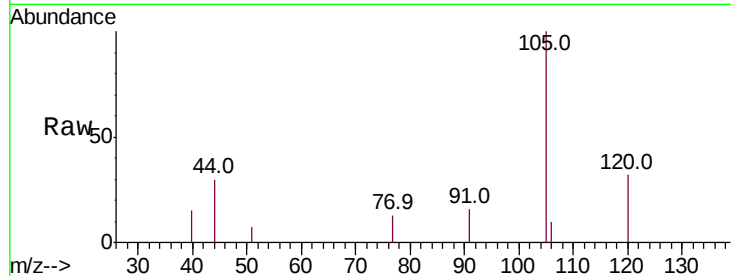
TP-2

Tot Ion: 91 Resp: 520

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055746.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055746.D (-3378) (-)

12.65

300

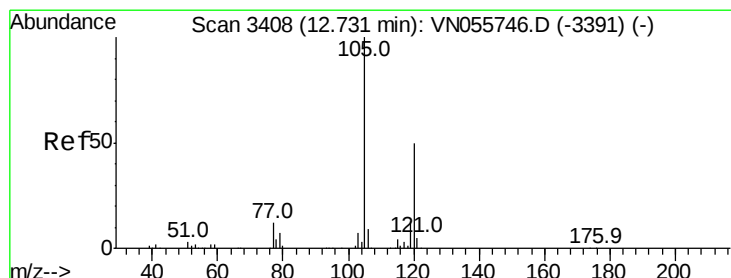
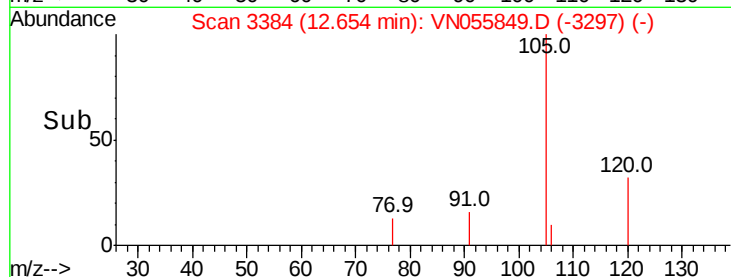
200

100

0

12.64 12.66 12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055849.D

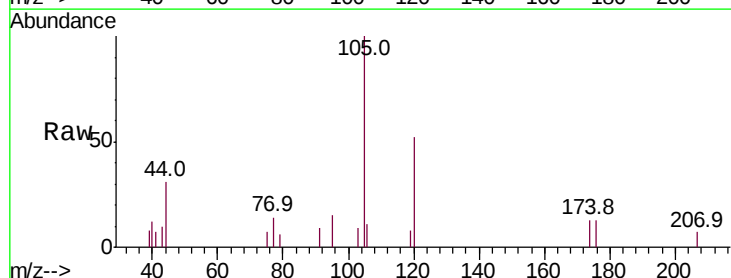
Acq: 28 May 2019 13:41

Tgt Ion:105 Resp: 3771

Ion Ratio Lower Upper

105 100

120 51.1 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN055746.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN055746.D (-3391) (-)

12.73

2500

2000

1500

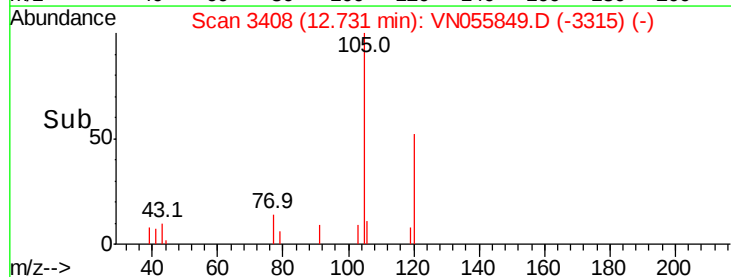
1000

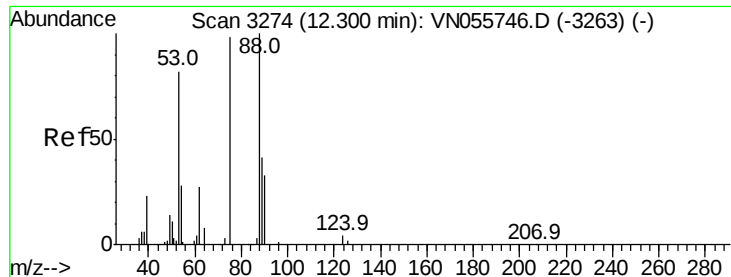
500

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 72.084 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

Instrument :

MSVOA_N

ClientSampleId :

TP-2

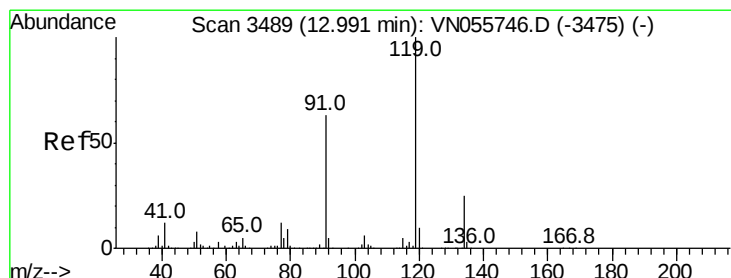
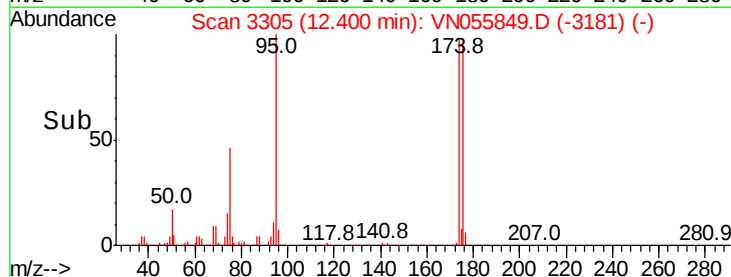
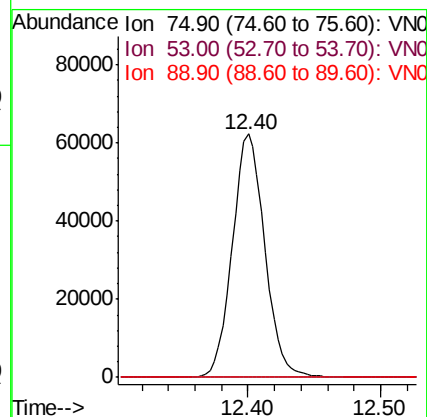
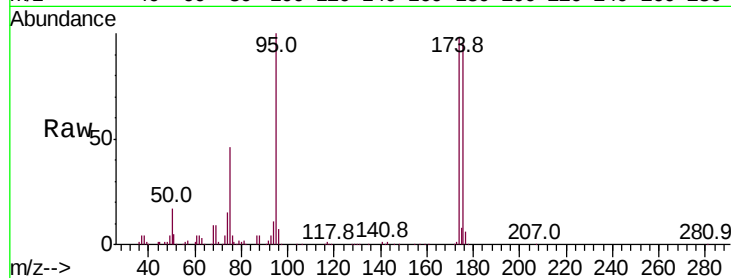
Tot Ion: 75 Resp: 105590

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: 13.04 min Scan# 3503

Delta R.T. 0.05 min

Lab File: VN055849.D

Acq: 28 May 2019 13:41

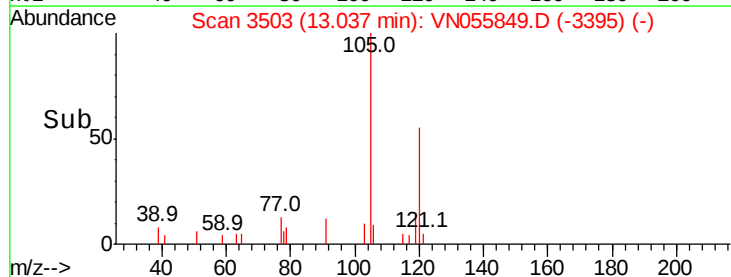
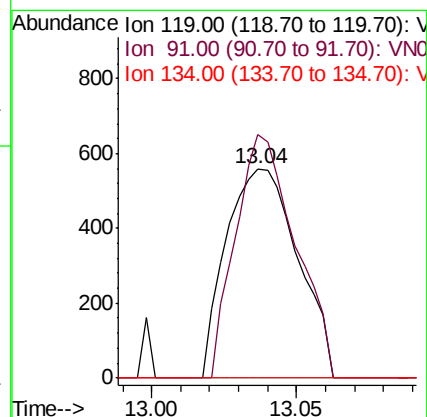
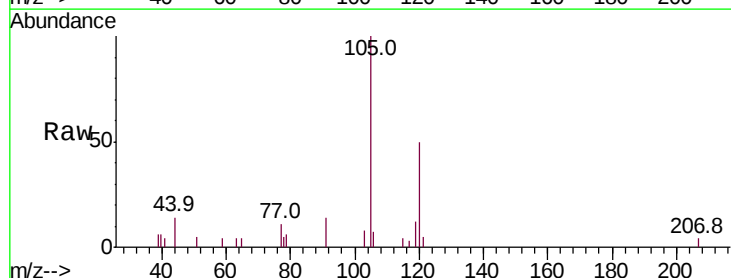
Tgt Ion: 119 Resp: 960

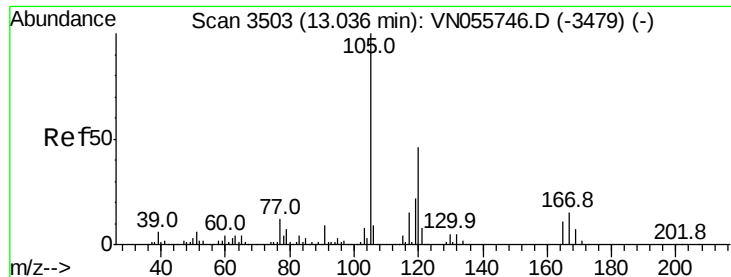
Ion Ratio Lower Upper

119 100

91 97.2 30.9 92.8#

134 0.0 13.3 39.8#

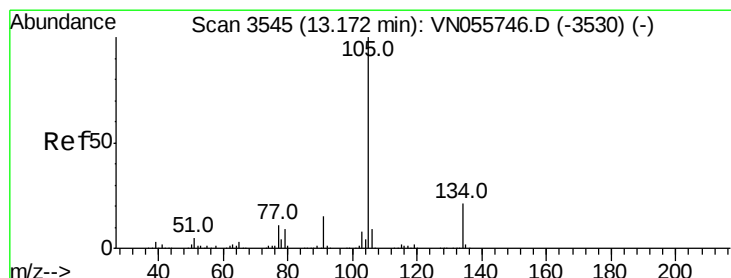
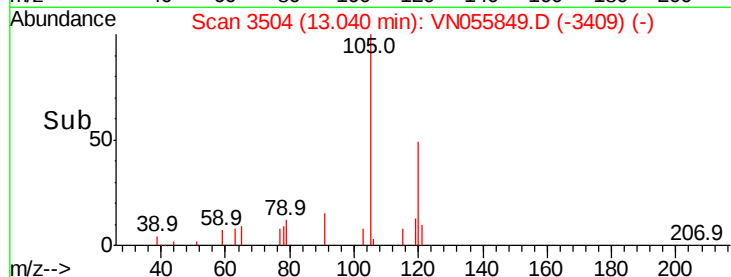
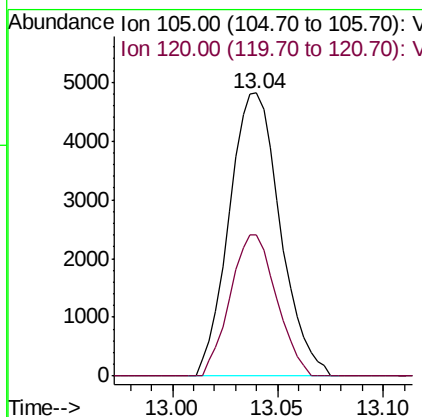
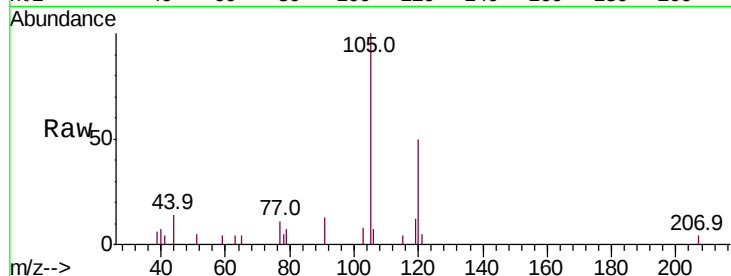




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

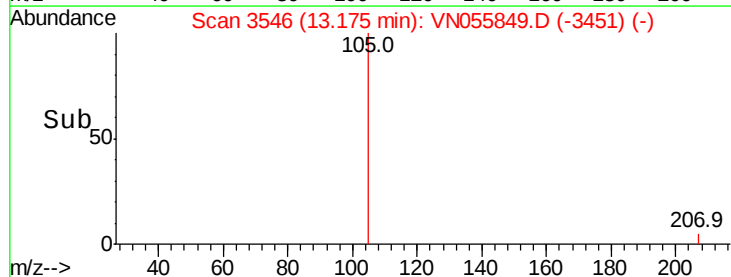
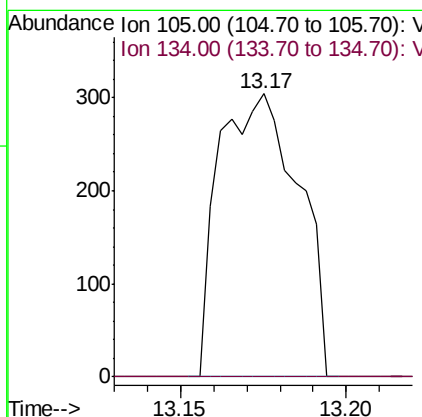
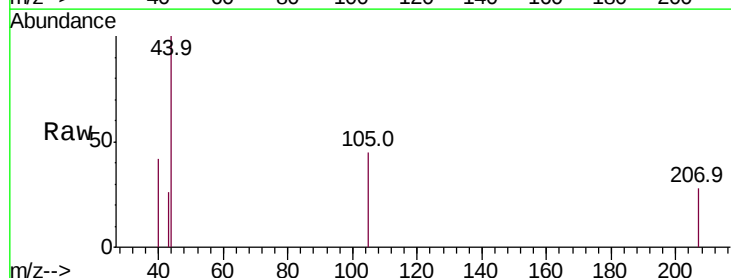
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

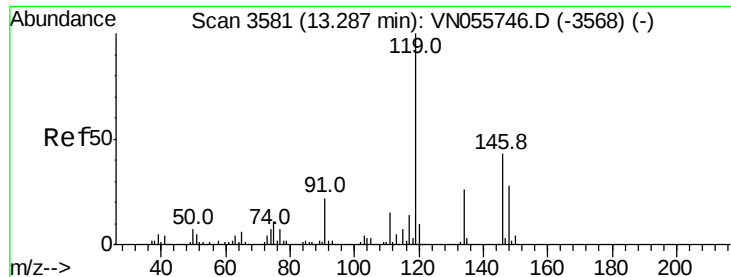
Tot Ion:105 Resp: 8095
 Ion Ratio Lower Upper
 105 100
 120 45.1 23.0 69.0



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

Tgt Ion:105 Resp: 510
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#

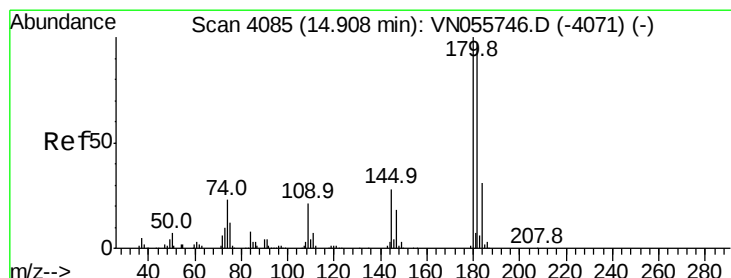
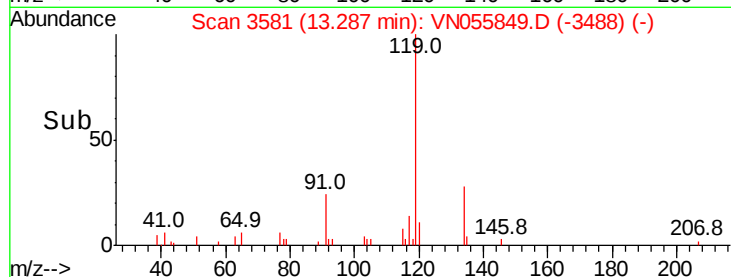
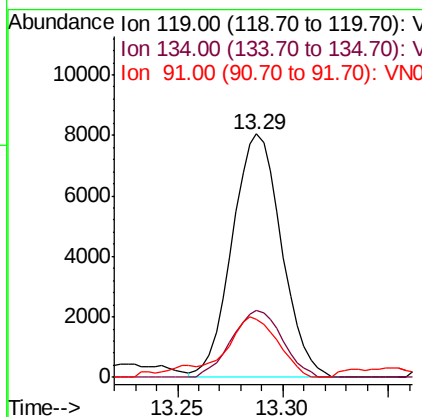
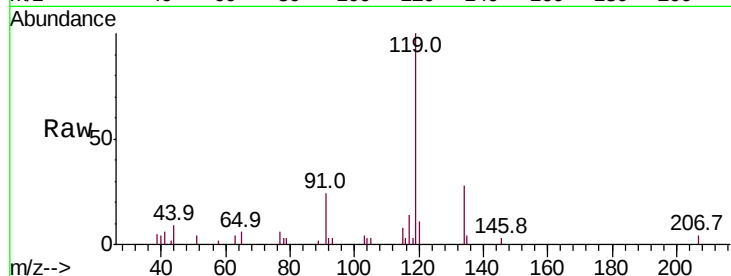




#86
 p-Isopropyltoluene
 Concen: 0.956 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

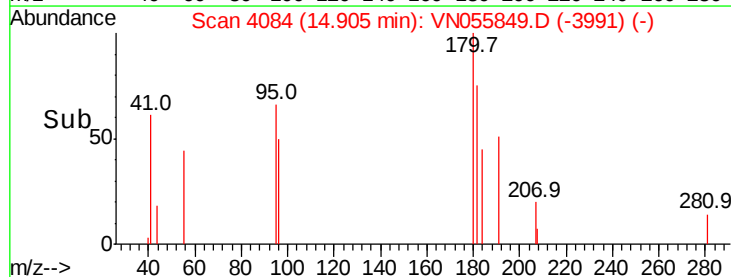
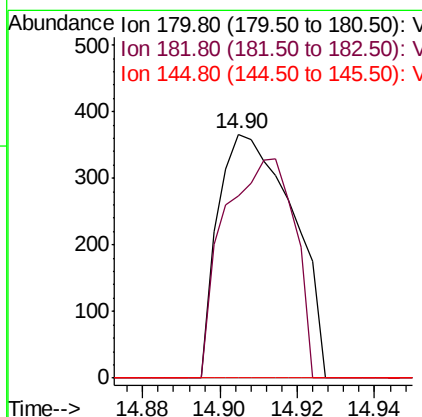
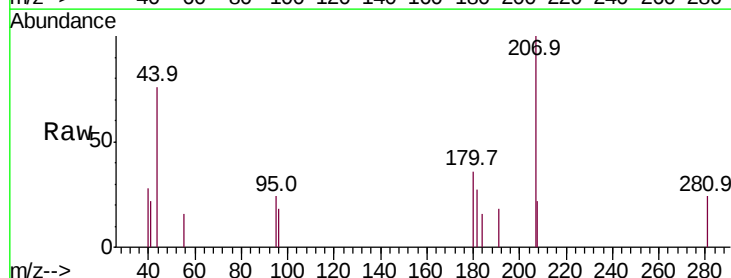
Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

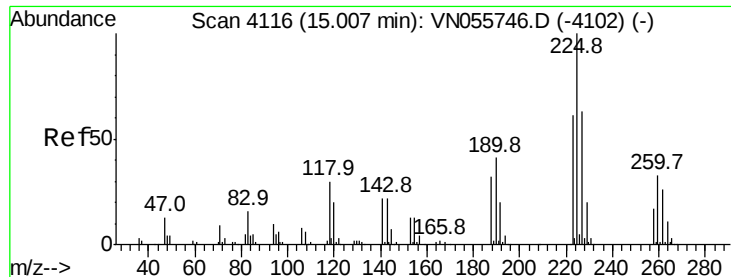
Tot Ion:119 Resp: 13084
 Ion Ratio Lower Upper
 119 100
 134 28.2 13.4 40.1
 91 28.5 10.9 32.9



#93
 1,2,4-Trichlorobenzene
 Concen: 3.756 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN055849.D
 Acq: 28 May 2019 13:41

Tgt Ion:180 Resp: 492
 Ion Ratio Lower Upper
 180 100
 182 84.1 48.3 144.9
 145 0.0 14.0 41.9#

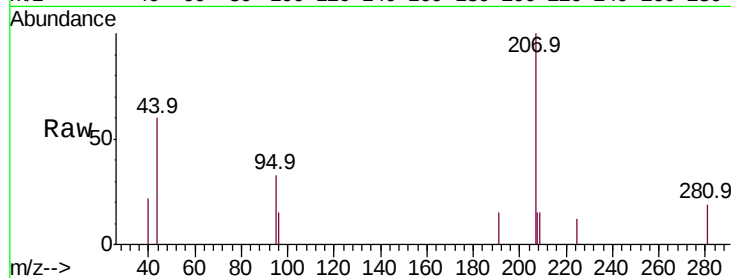




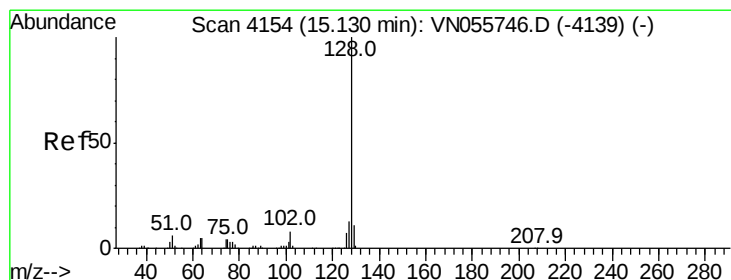
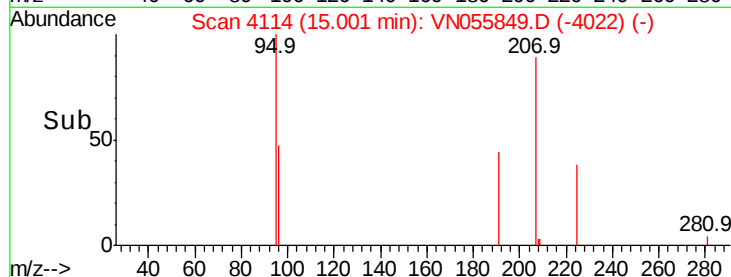
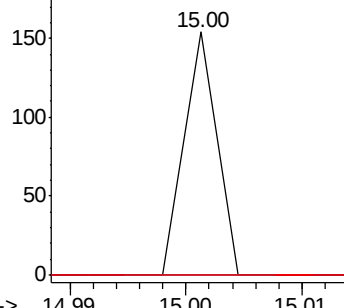
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.00 min Scan# 4114
Delta R.T. -0.01 min
Lab File: VN055849.D
Acq: 28 May 2019 13:41

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tot Ion:225 Resp: 30
Ion Ratio Lower Upper
225 100
223 0.0 30.9 92.7#
227 0.0 31.6 94.7#

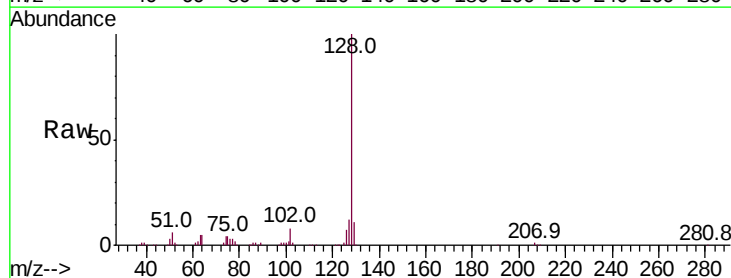


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95
Naphthalene
Concen: 44.094 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055849.D
Acq: 28 May 2019 13:41

Tgt Ion:128 Resp: 402007
Ion Ratio Lower Upper
128 100
127 12.4 10.3 15.5
129 10.9 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

