

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055857.D
 Acq On : 28 May 2019 17:02
 Operator : JC/SP
 Sample : K3019-01
 Misc : 4.78µ/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RT-3422

Quant Time: May 29 05:39:21 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

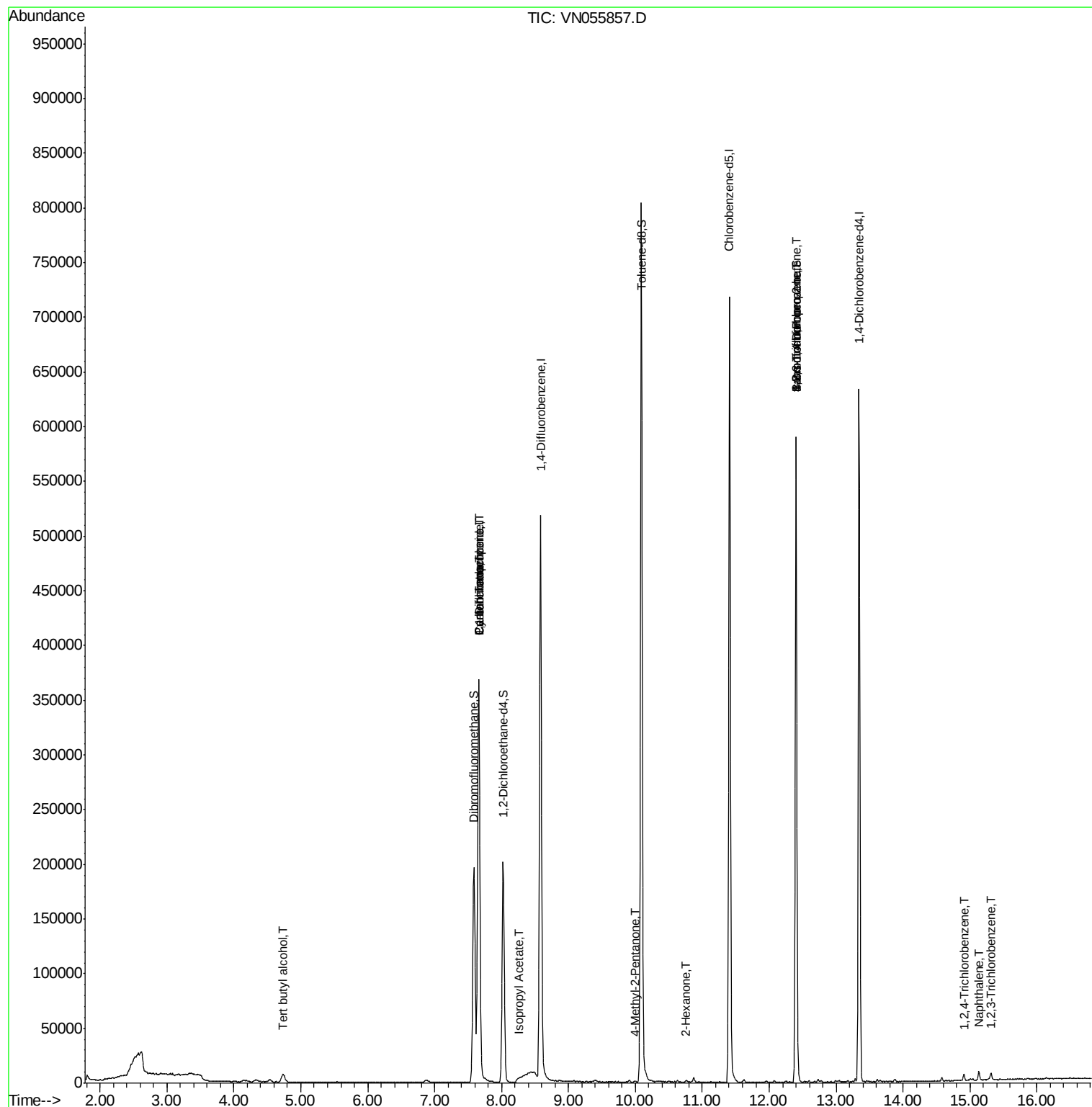
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	355547	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	510405	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	462757	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	189698	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	168791	45.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.94%	
35) Dibromofluoromethane	7.59	113	151405	46.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.84%	
50) Toluene-d8	10.09	98	604331	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	
62) 4-Bromofluorobenzene	12.40	95	200155	47.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.32%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.73	59	3569	5.087	ug/l #	74
18) Methyl Acetate	4.33	43	3055	Below Cal	#	87
31) Cyclohexane	7.65	56	5289	0.960	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20433	4.594	ug/l #	47
38) Carbon Tetrachloride	7.66	117	29277	6.319	ug/l #	14
43) Isopropyl Acetate	8.25	43	2374	0.329	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1493	0.350	ug/l #	66
59) 2-Hexanone	10.76	43	1953	0.645	ug/l #	59
71) Bromoform	12.40	173	1419	0.450	ug/l #	1
73) Isopropylbenzene	12.25	105	972	Below Cal	#	69
74) N-amyl acetate	12.07	43	1232	Below Cal	#	57
76) 1,2,3-Trichloropropane	12.40	75	92261	26.783	ug/l #	100
79) 2-Chlorotoluene	12.68	91	606	Below Cal		77
80) 1,3,5-Trimethylbenzene	12.73	105	923	Below Cal		77
81) trans-1,4-Dichloro-2-buten	12.40	75	92261	65.438	ug/l #	15
83) tert-Butylbenzene	12.99	119	739	Below Cal	#	85
84) 1,2,4-Trimethylbenzene	13.04	105	1592	Below Cal		93
85) sec-Butylbenzene	13.17	105	1293	Below Cal	#	66
93) 1,2,4-Trichlorobenzene	14.91	180	2577	4.286	ug/l	98
94) Hexachlorobutadiene	15.00	225	285	Below Cal	#	49
95) Naphthalene	15.13	128	7958	0.907	ug/l	96
96) 1,2,3-Trichlorobenzene	15.32	180	3121	0.923	ug/l	99

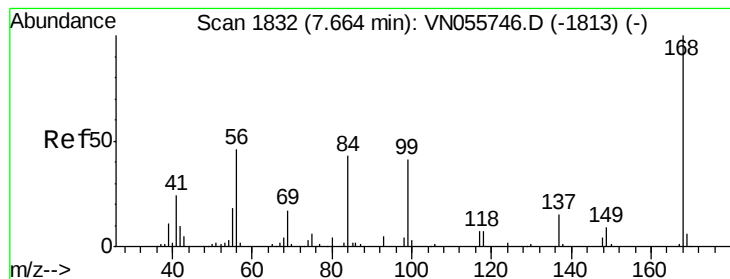
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN055857.D

Acq: 28 May 2019 17:02

Instrument :

MSVOA_N

ClientSampled :

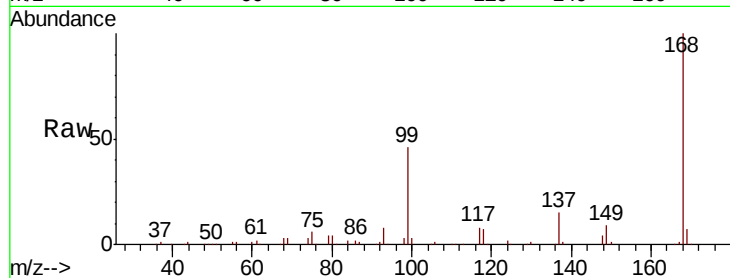
RT-3422

Tot Ion:168 Resp: 35547

Ion Ratio Lower Upper

168 100

99 45.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

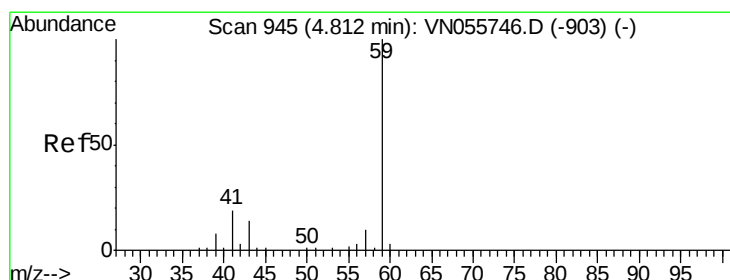
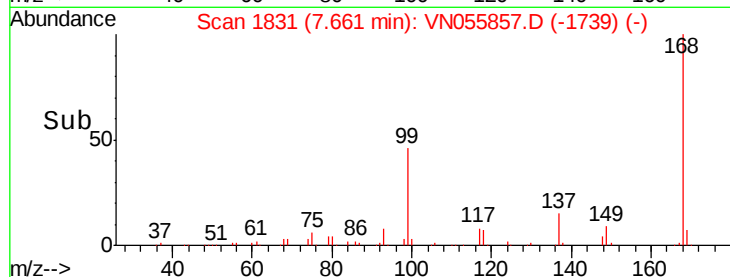
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.087 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.08 min

Lab File: VN055857.D

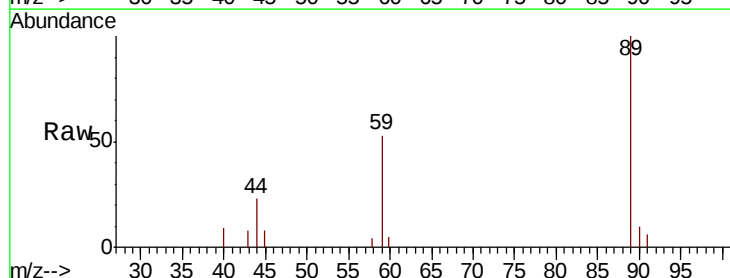
Acq: 28 May 2019 17:02

Tgt Ion: 59 Resp: 3569

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

4.73

2000

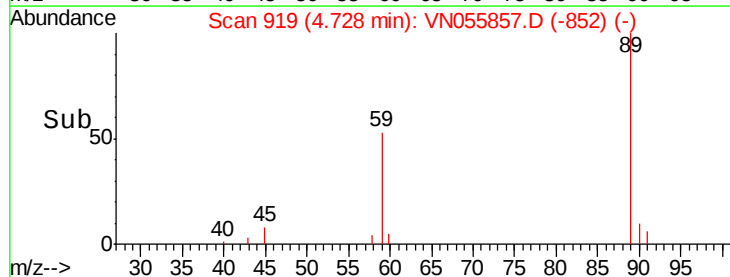
1500

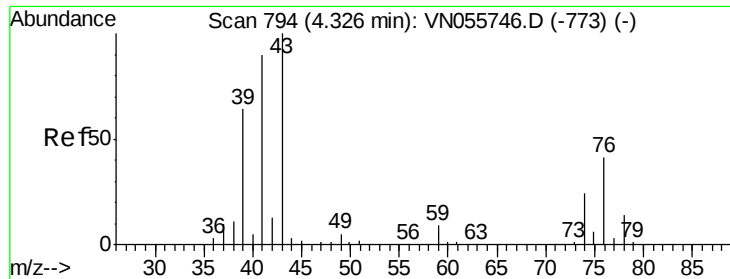
1000

500

0

Time-->

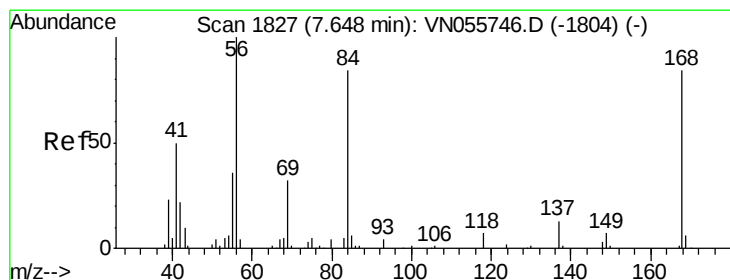
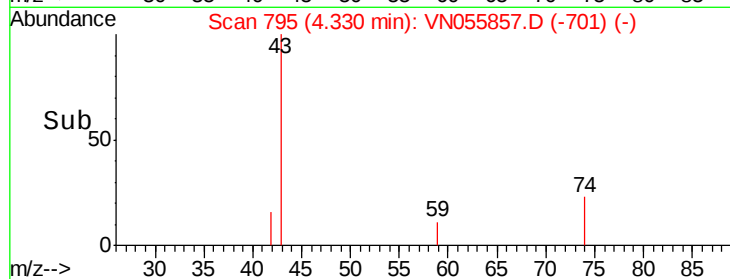
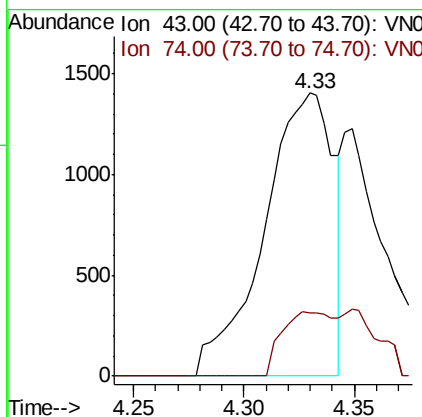
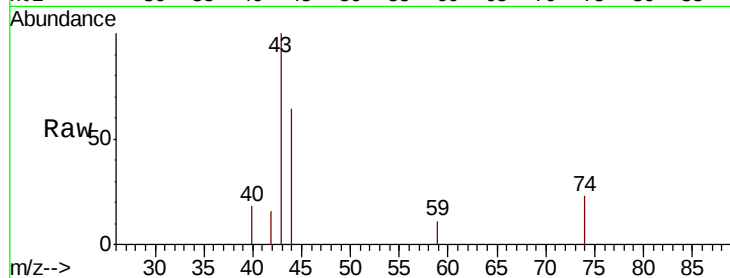




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

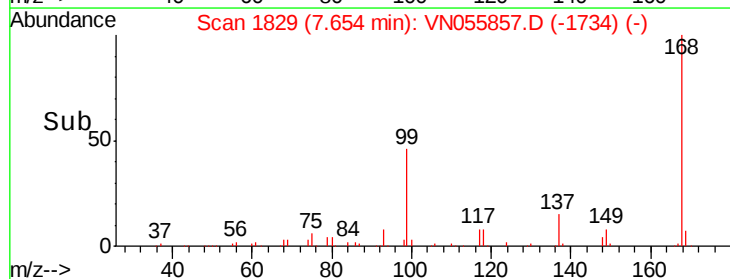
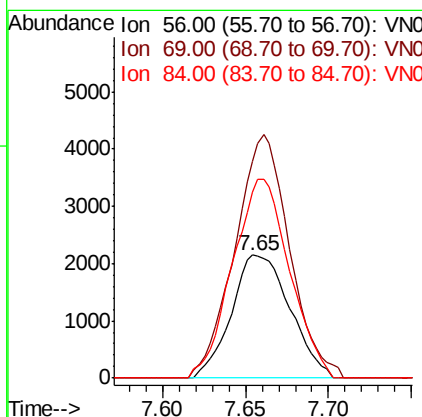
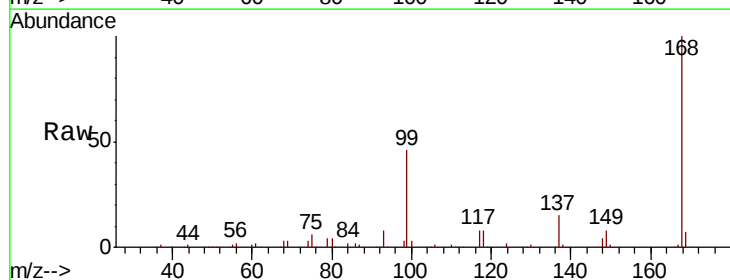
Instrument :
MSVOA_N
ClientSampleId :
RT-3422

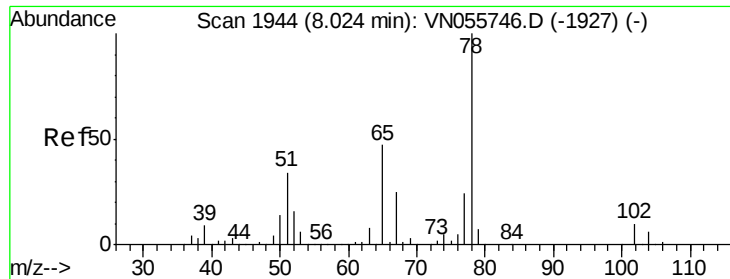
Tot Ion: 43 Resp: 3055
Ion Ratio Lower Upper
43 100
74 17.5 19.3 28.9#



#31
Cyclohexane
Concen: 0.960 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

Tgt Ion: 56 Resp: 5289
Ion Ratio Lower Upper
56 100
69 176.6 25.6 38.4#
84 151.0 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 45.969 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN055857.D

Acq: 28 May 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

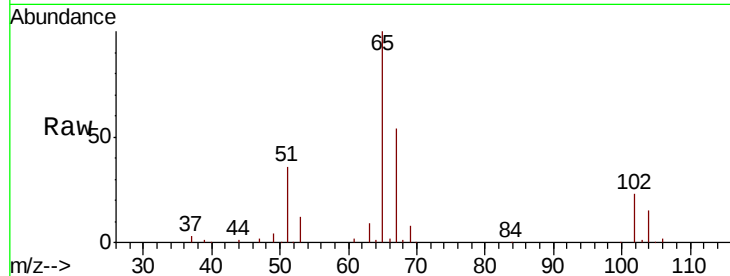
RT-3422

Tot Ion: 65 Resp: 168791

Ion Ratio Lower Upper

65 100

67 54.3 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN055857.D (-1851) (-)

Ion 66.90 (66.60 to 67.60): VN055857.D (-1851) (-)

8.02

60000

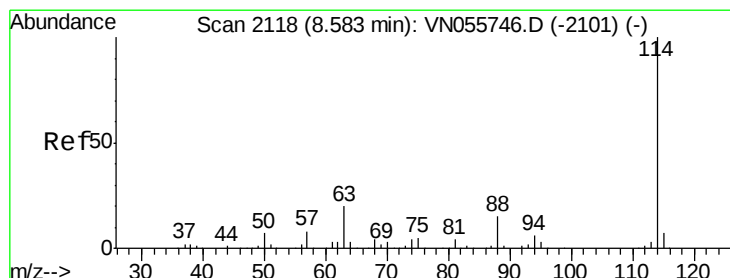
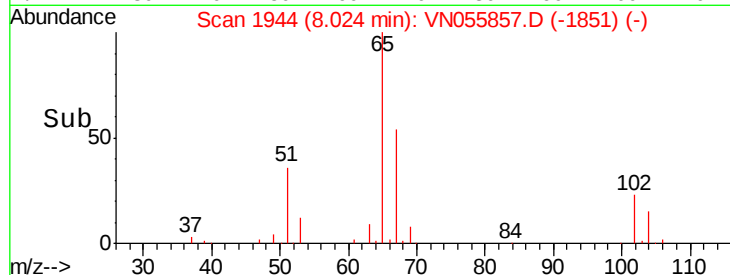
40000

20000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055857.D

Acq: 28 May 2019 17:02

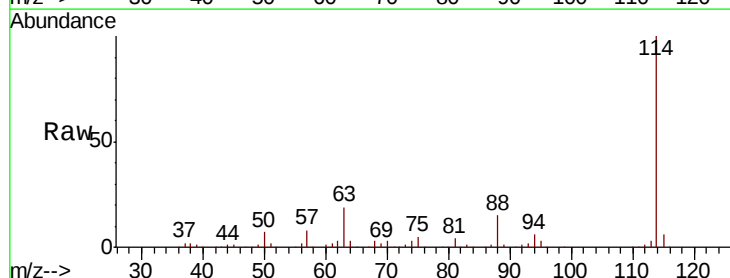
Tgt Ion: 114 Resp: 510405

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.2

88 15.1 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN055857.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN055857.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN055857.D (-2025) (-)

8.58

300000

250000

200000

150000

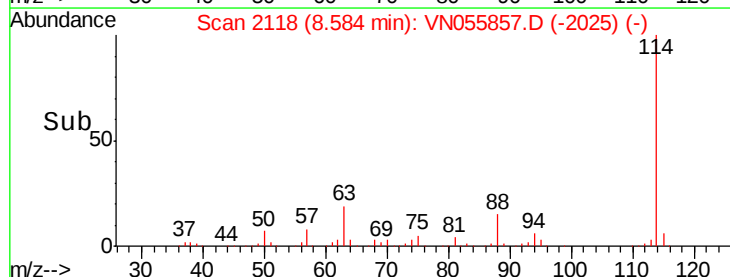
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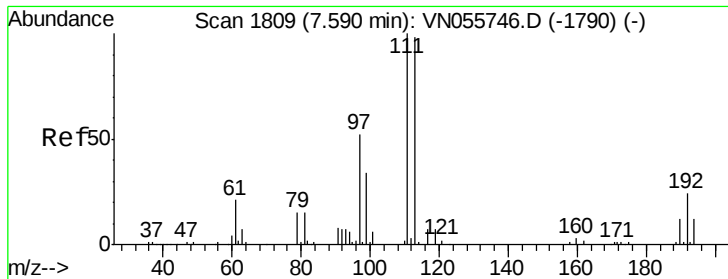
50000

0

8.50 8.60 8.70

Time-->

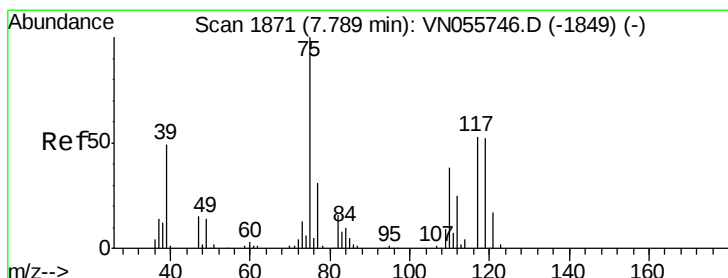
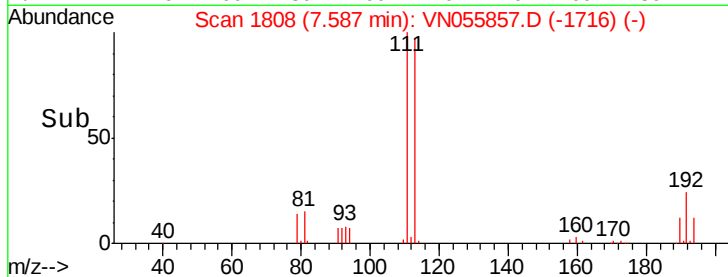
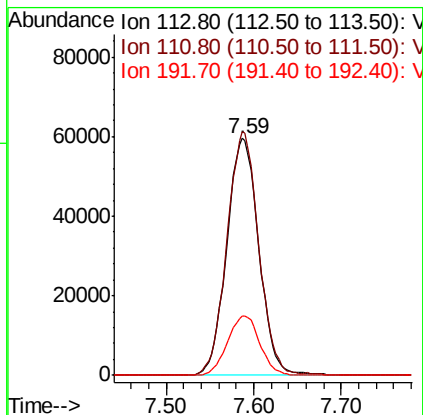
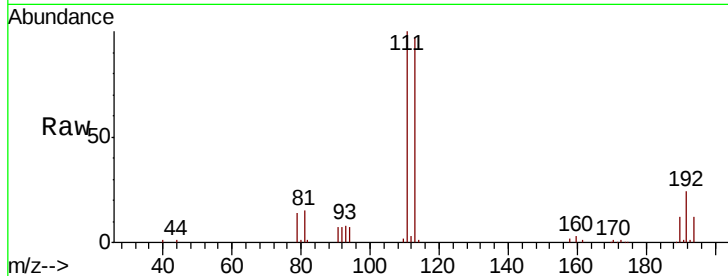




#35
 Dibromofluoromethane
 Concen: 46.919 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN055857.D
 Acq: 28 May 2019 17:02

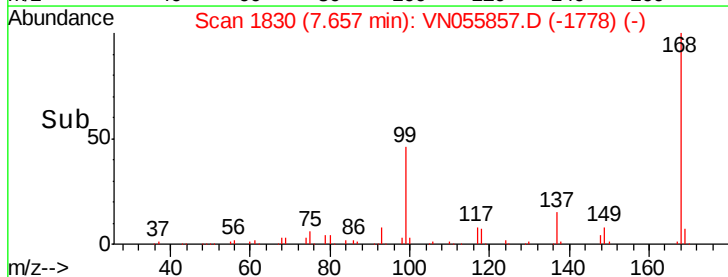
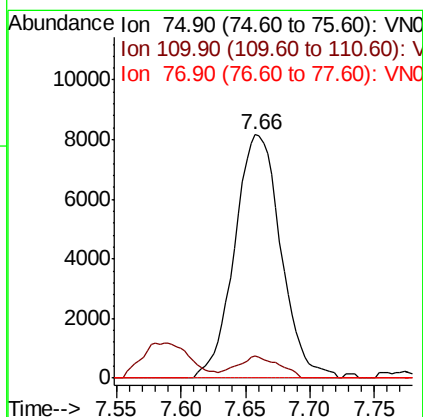
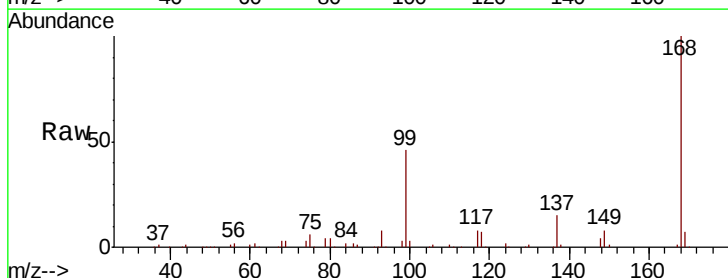
Instrument :
 MSVOA_N
 ClientSampleId :
 RT-3422

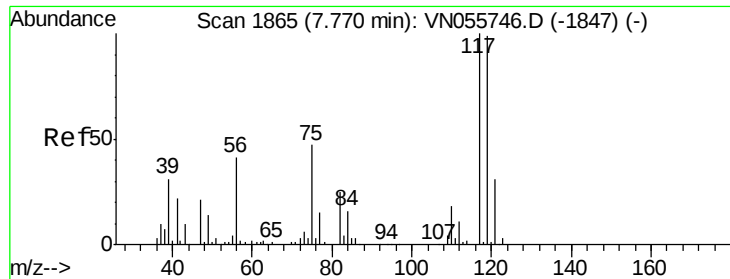
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.9	122.9
192	25.1	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.594 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN055857.D
 Acq: 28 May 2019 17:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	19.0	57.0#
77	0.0	25.1	37.7#

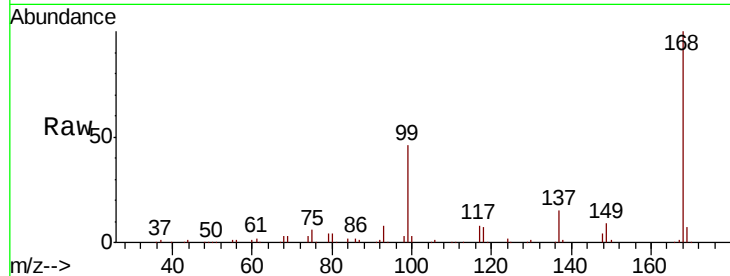




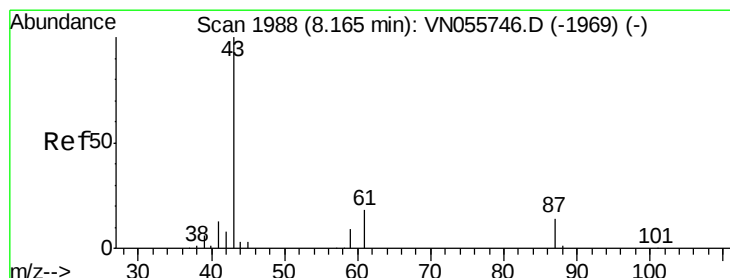
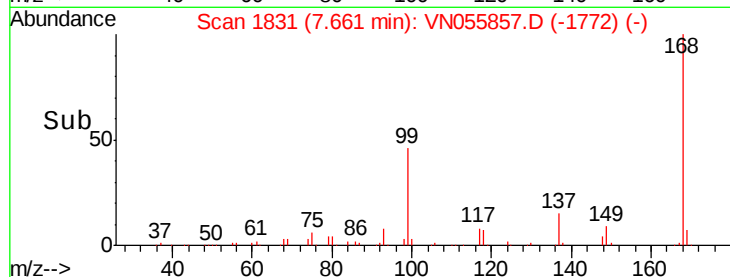
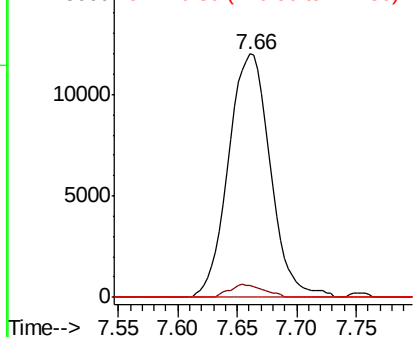
#38
Carbon Tetrachloride
Concen: 6.319 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

Instrument :
MSVOA_N
ClientSampled :
RT-3422

Tot Ion: 117 Resp: 29277
Ion Ratio Lower Upper
117 100
119 4.8 79.0 118.6#
121 0.0 24.7 37.1#

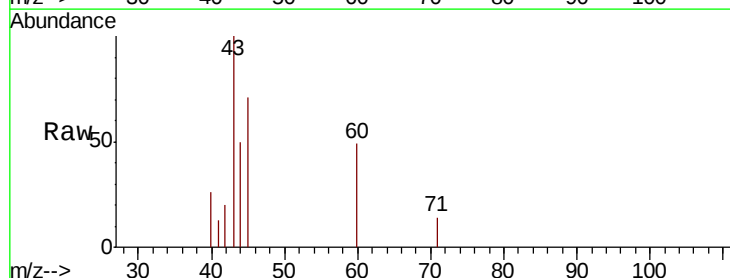


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

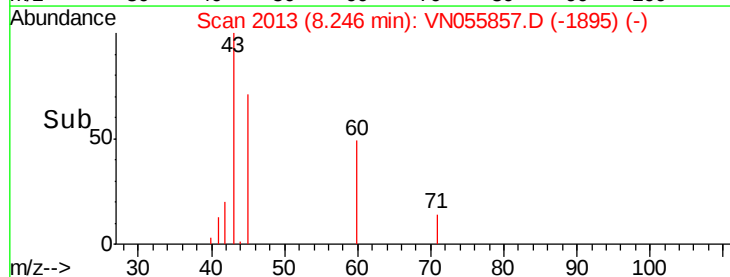
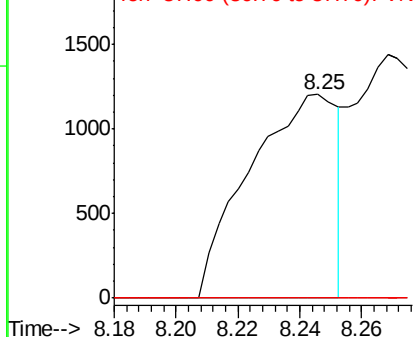


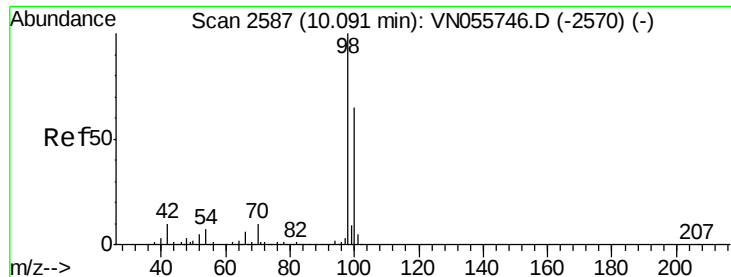
#43
Isopropyl Acetate
Concen: 0.329 ug/l
RT: 8.25 min Scan# 2013
Delta R.T. 0.08 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

Tgt Ion: 43 Resp: 2374
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

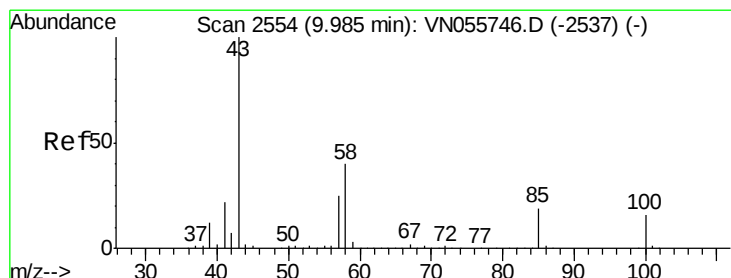
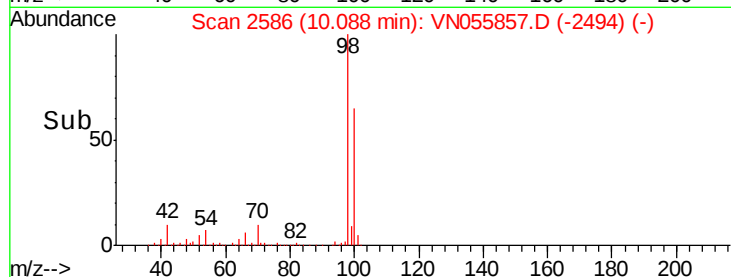
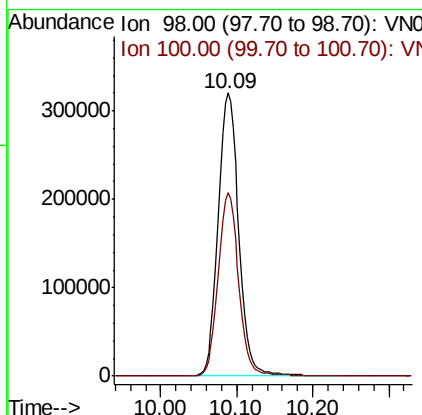
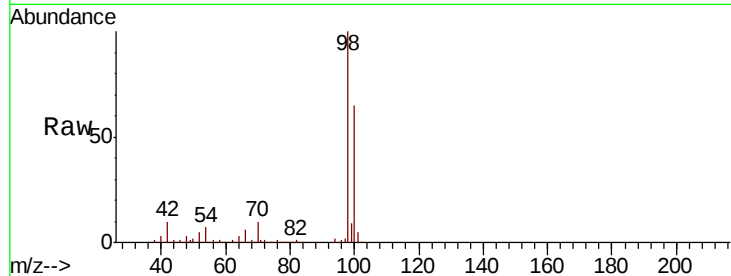




#50
Toluene-d8
Concen: 48.822 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

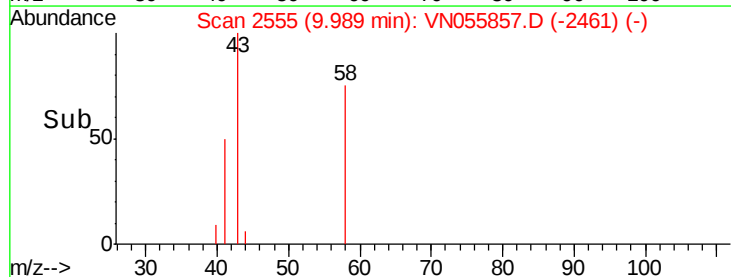
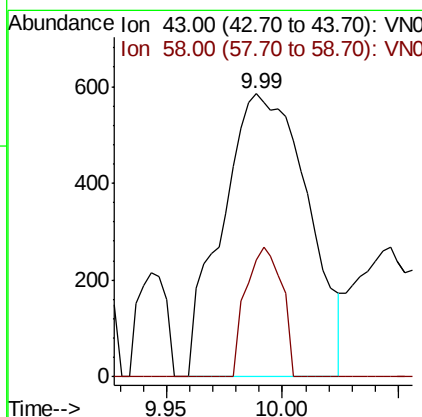
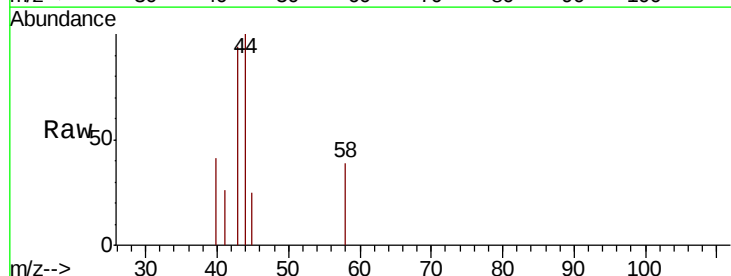
Instrument :
MSVOA_N
ClientSampled :
RT-3422

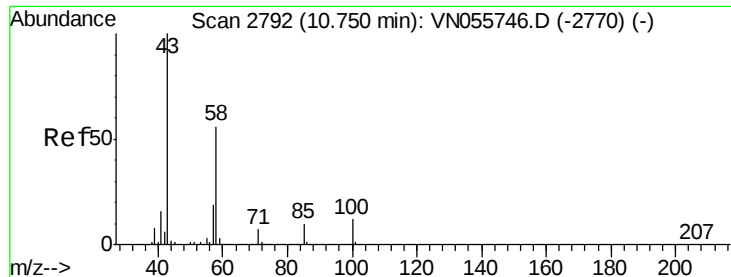
Tot Ion: 98 Resp: 604331
Ion Ratio Lower Upper
98 100
100 64.3 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.350 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

Tgt Ion: 43 Resp: 1493
Ion Ratio Lower Upper
43 100
58 19.3 32.1 48.1#

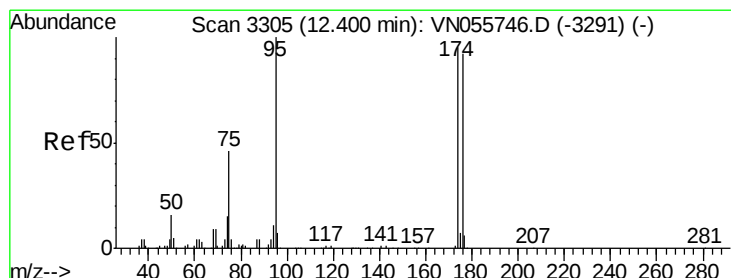
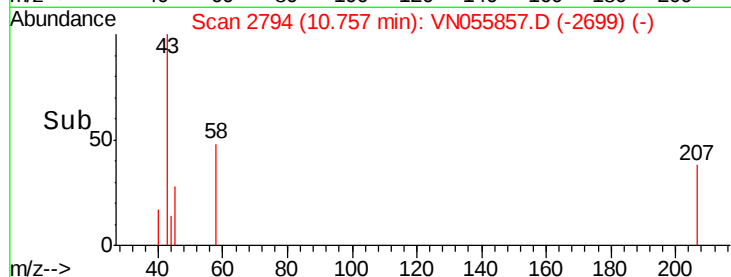
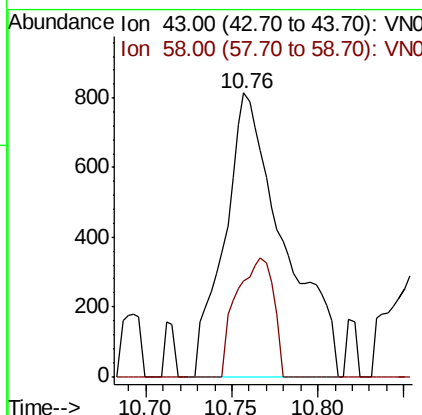
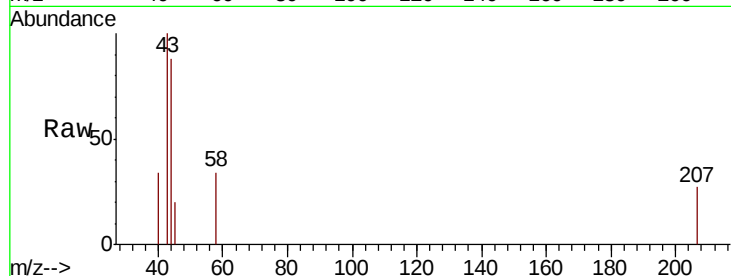




#59
2-Hexanone
Concen: 0.645 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

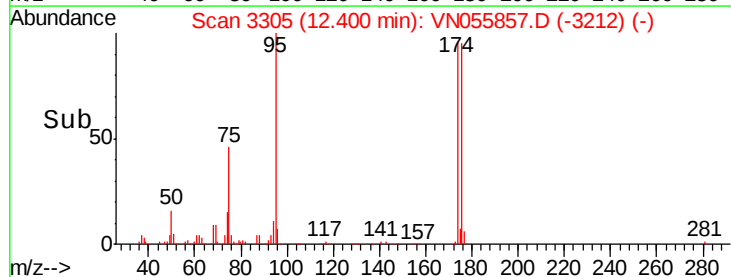
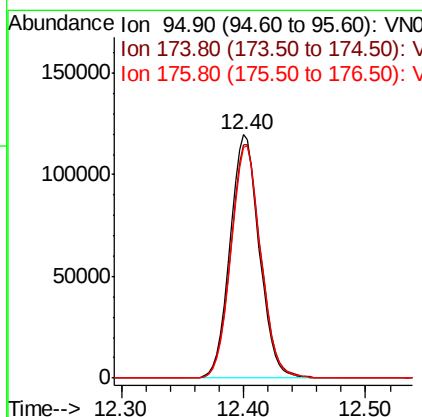
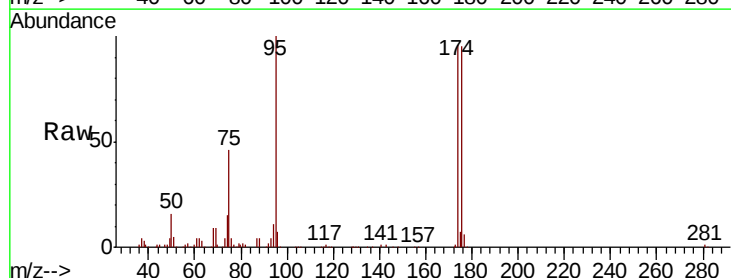
Instrument :
MSVOA_N
ClientSampleId :
RT-3422

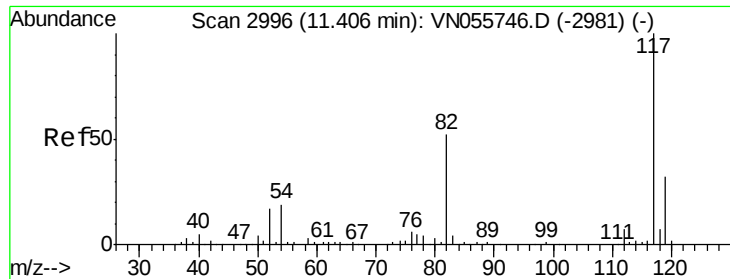
Tot Ion: 43 Resp: 1953
Ion Ratio Lower Upper
43 100
58 26.1 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 47.158 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

Tgt Ion: 95 Resp: 200155
Ion Ratio Lower Upper
95 100
174 98.2 0.0 191.0
176 96.2 0.0 185.2

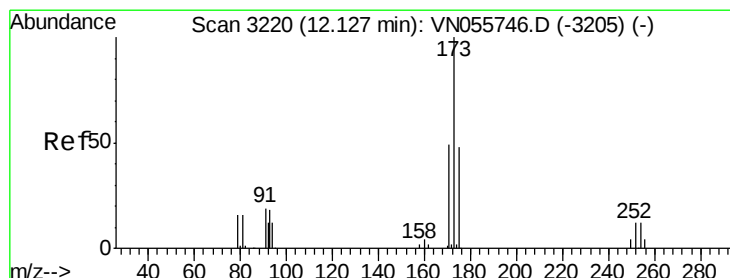
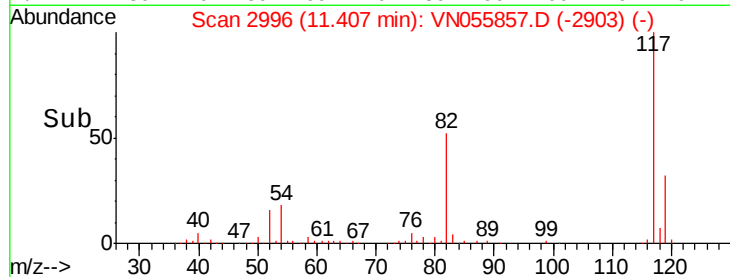
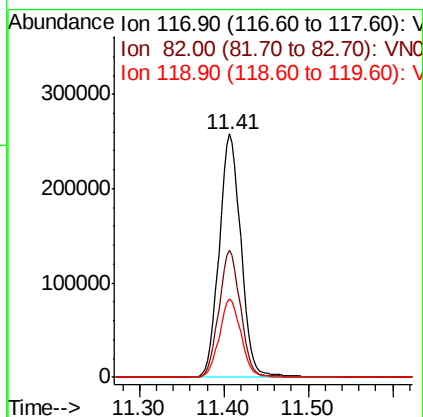
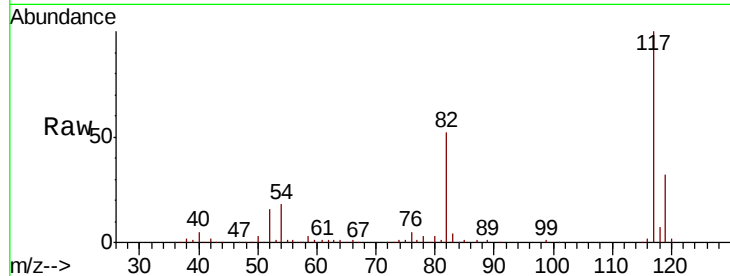




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

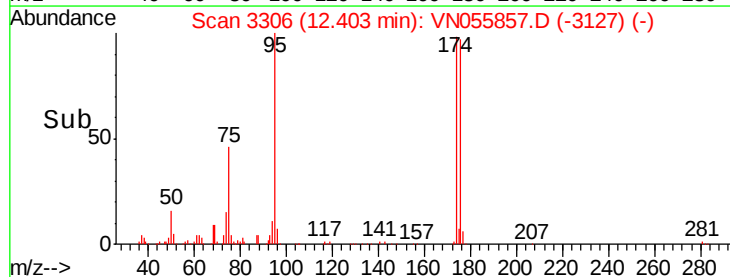
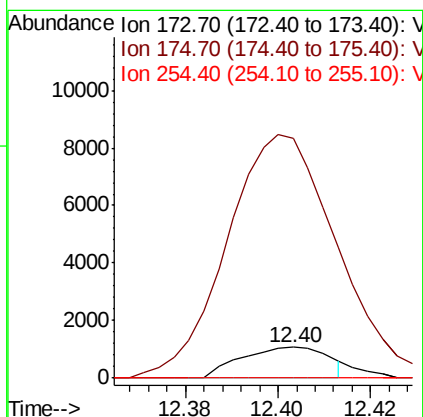
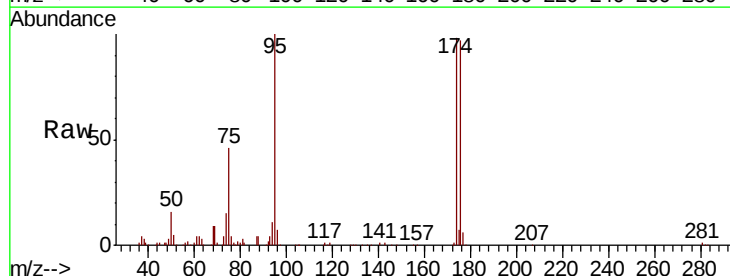
Instrument :
MSVOA_N
ClientSampleId :
RT-3422

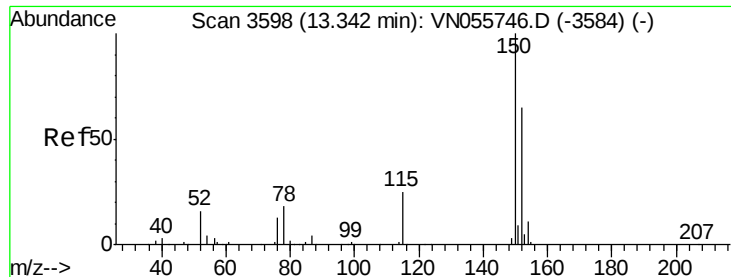
Tot Ion:117 Resp: 462757
Ion Ratio Lower Upper
117 100
82 52.2 41.8 62.8
119 32.0 25.4 38.0



#71
Bromoform
Concen: 0.450 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

Tgt Ion:173 Resp: 1419
Ion Ratio Lower Upper
173 100
175 870.5 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: VN055857.D

Acq: 28 May 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

RT-3422

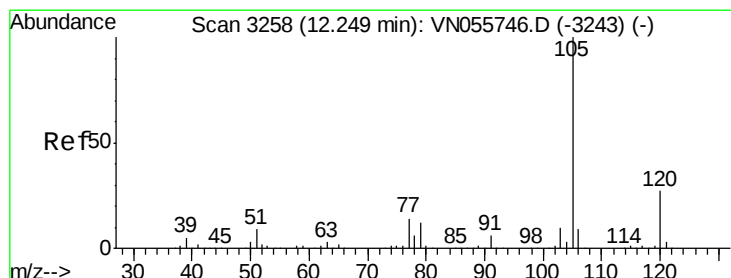
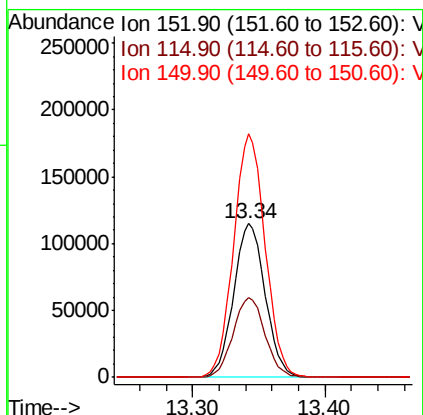
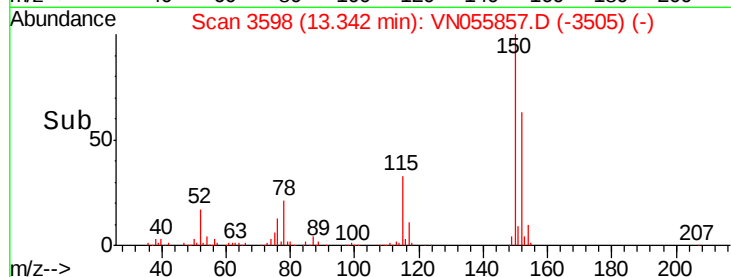
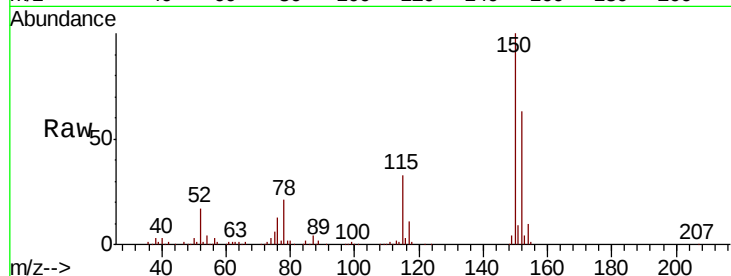
Tot Ion:152 Resp: 189698

Ion Ratio Lower Upper

152 100

115 52.5 27.0 81.0

150 158.0 0.0 343.2



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055857.D

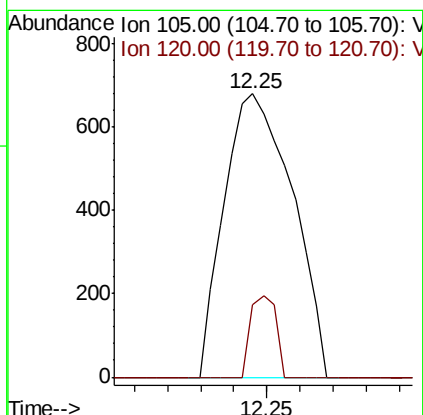
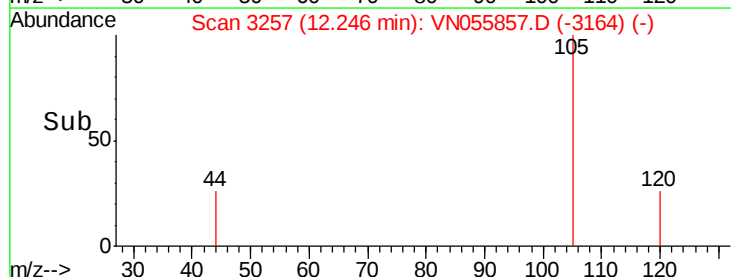
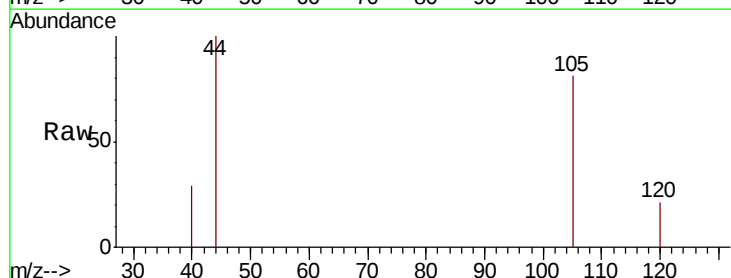
Acq: 28 May 2019 17:02

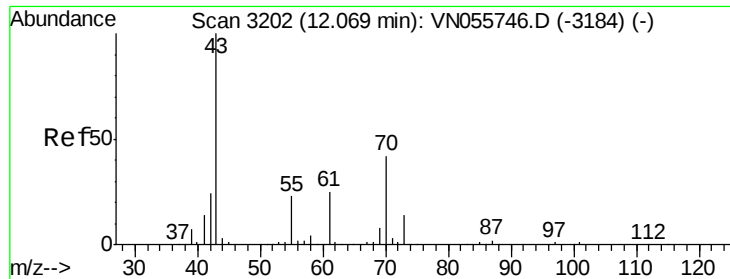
Tgt Ion:105 Resp: 972

Ion Ratio Lower Upper

105 100

120 10.8 13.6 40.7#





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN055857.D

Acq: 28 May 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

RT-3422

Tot Ion: 43 Resp: 1232

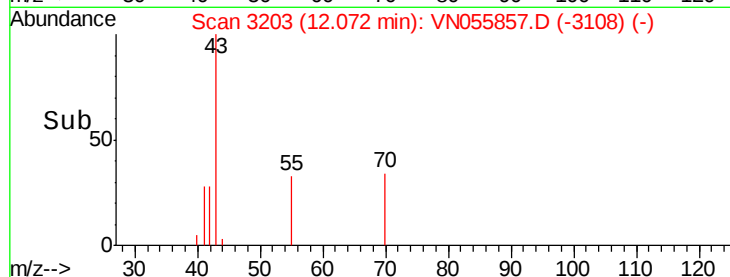
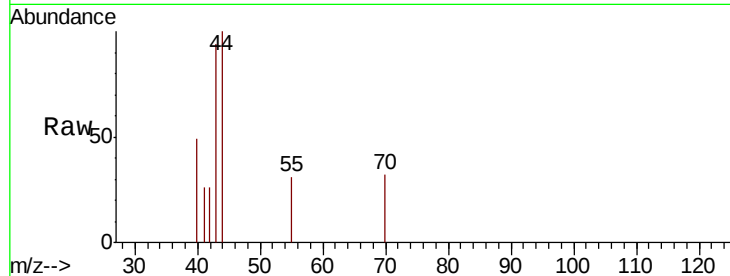
Ion Ratio Lower Upper

43 100

70 11.7 34.0 51.0#

55 11.4 18.6 28.0#

61 0.0 20.0 30.0#

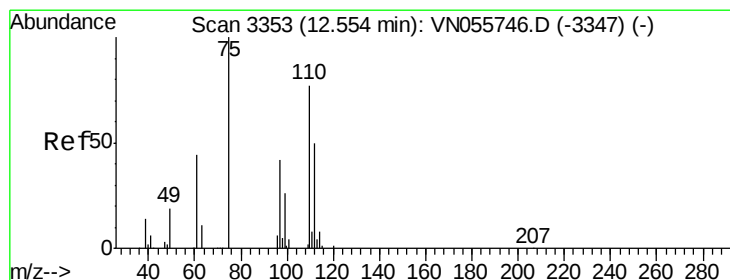
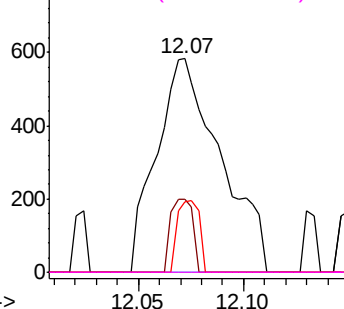


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.783 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055857.D

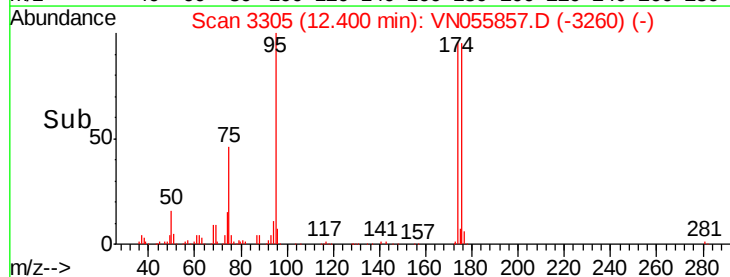
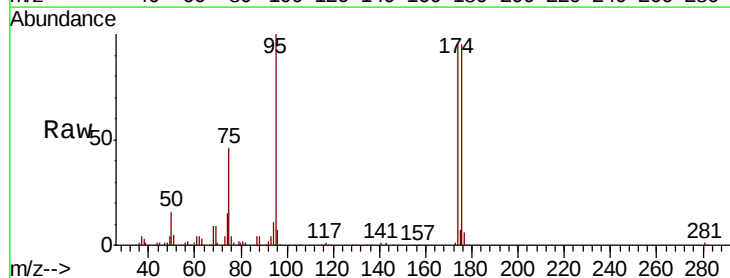
Acq: 28 May 2019 17:02

Tgt Ion: 75 Resp: 92261

Ion Ratio Lower Upper

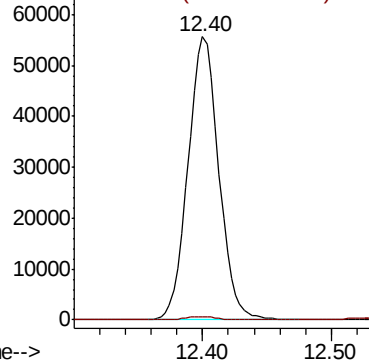
75 100

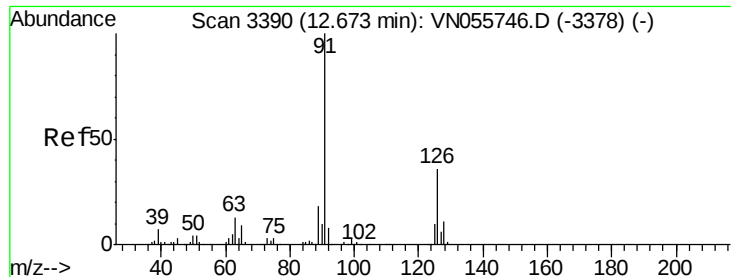
77 1.1 0.0 0.0#



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: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055857.D

Acq: 28 May 2019 17:02

Instrument :

MSVOA_N

ClientSampled :

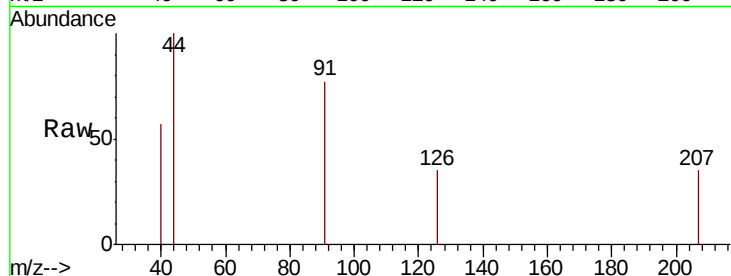
RT-3422

Tot Ion: 91 Resp: 606

Ion Ratio Lower Upper

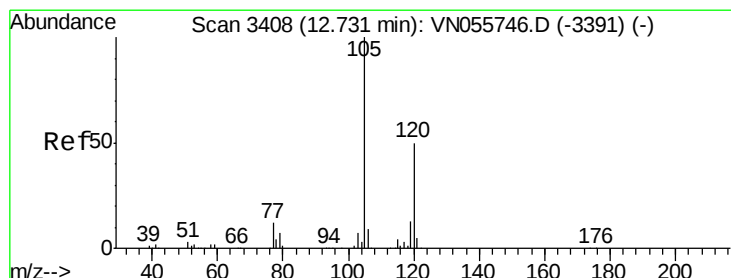
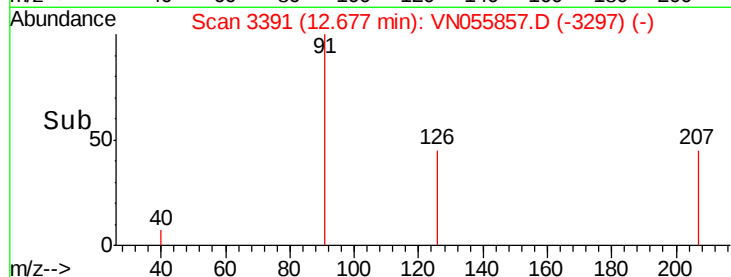
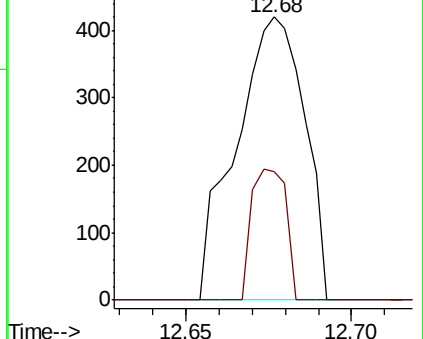
91 100

126 22.9 18.1 54.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055857.D

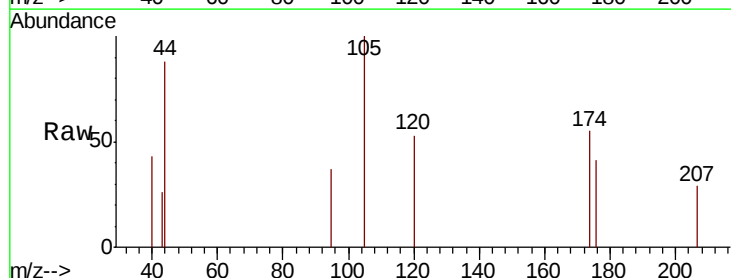
Acq: 28 May 2019 17:02

Tgt Ion: 105 Resp: 923

Ion Ratio Lower Upper

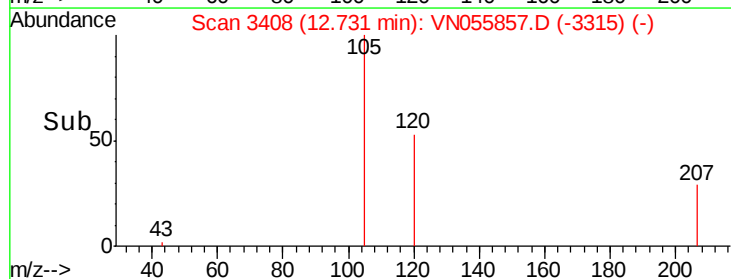
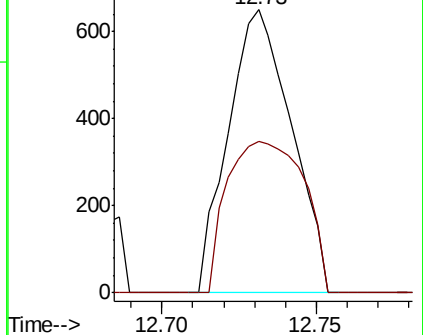
105 100

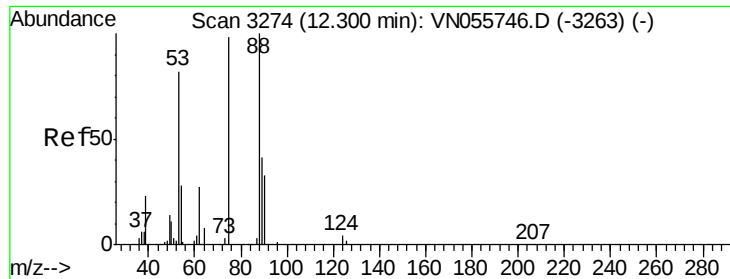
120 65.2 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

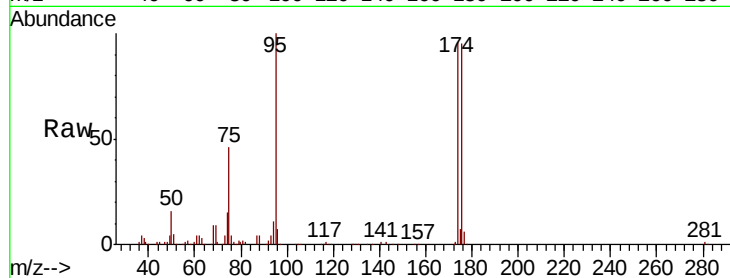




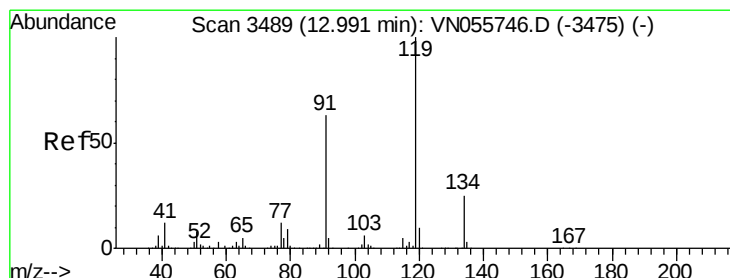
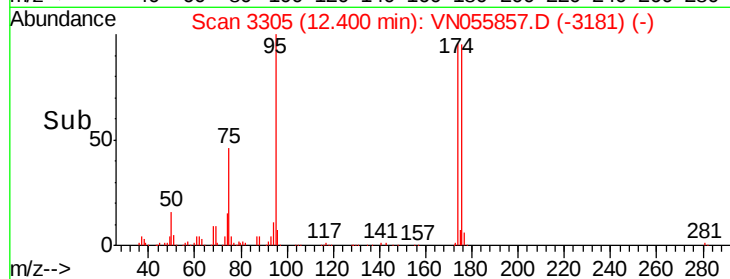
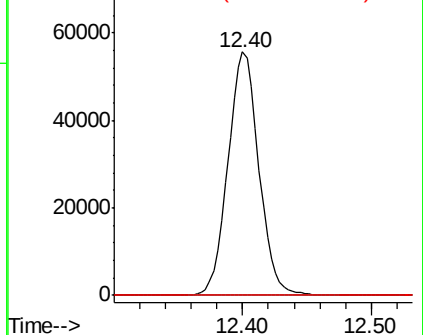
#81
trans-1,4-Dichloro-2-butene
Concen: 65.438 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

Instrument :
MSVOA_N
ClientSampled :
RT-3422

Tot Ion: 75 Resp: 92261
Ion Ratio Lower Upper
75 100
53 0.0 68.1 102.1#
89 0.0 36.9 55.3#

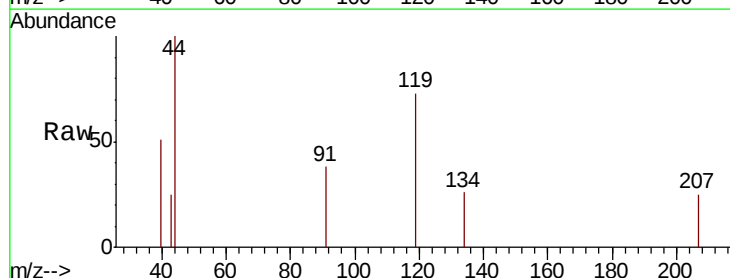


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

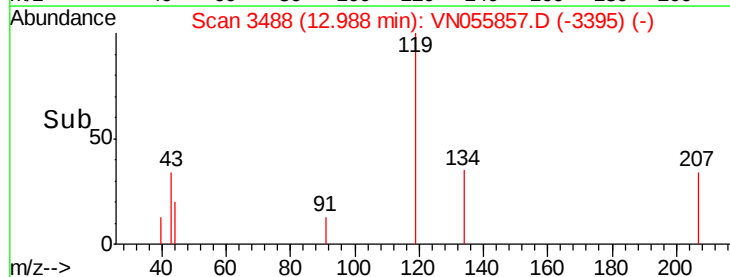
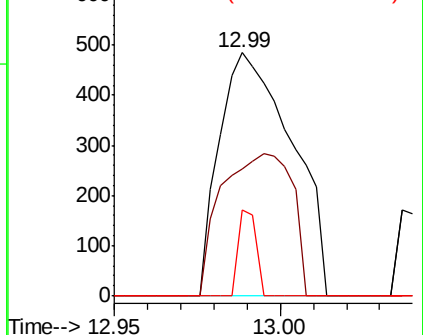


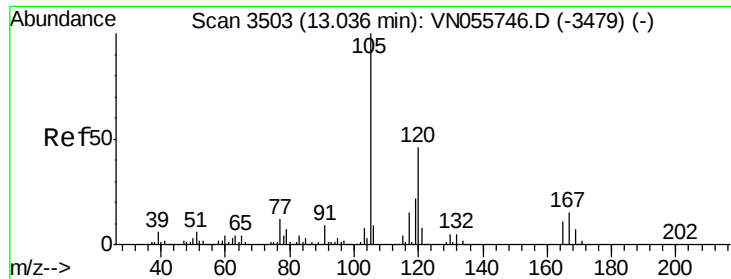
#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3488
Delta R.T. -0.00 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

Tgt Ion: 119 Resp: 739
Ion Ratio Lower Upper
119 100
91 56.7 30.9 92.8
134 8.7 13.3 39.8#



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VN0
Ion 134.00 (133.70 to 134.70): V

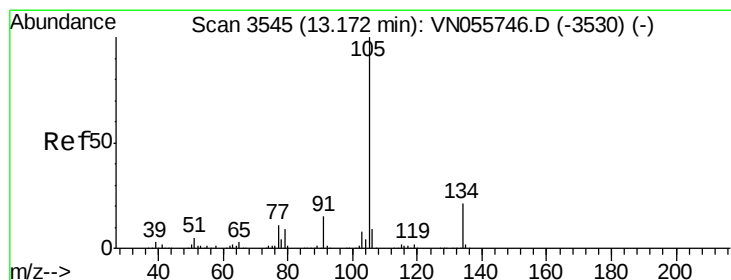
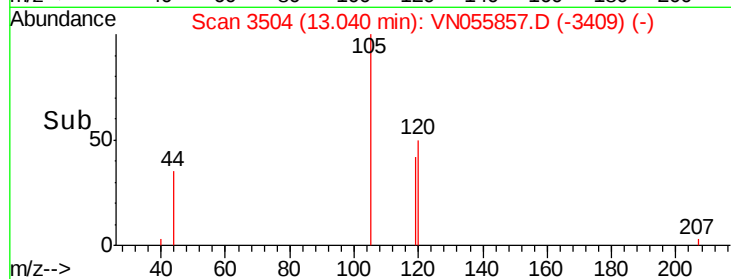
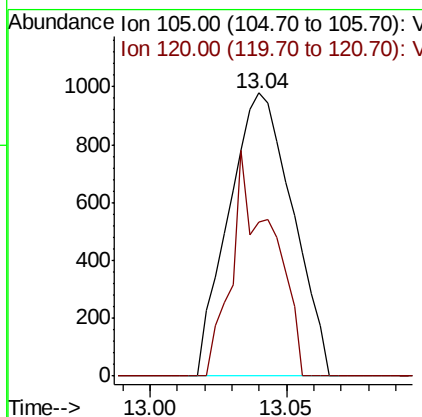
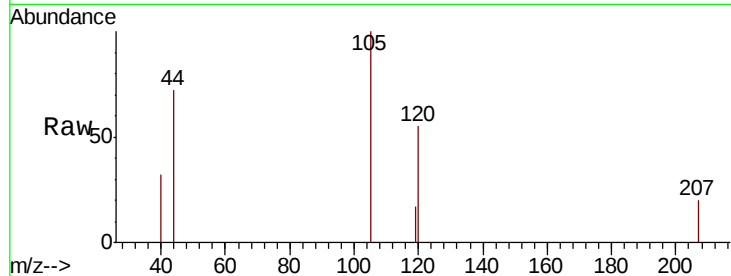




#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

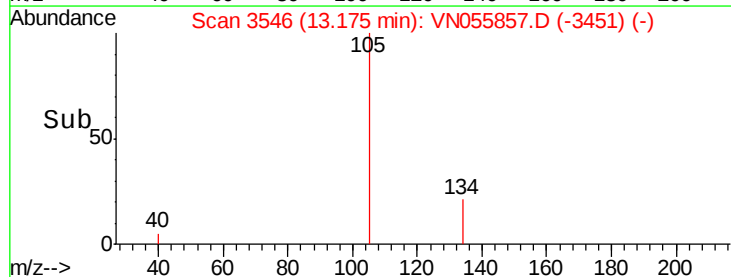
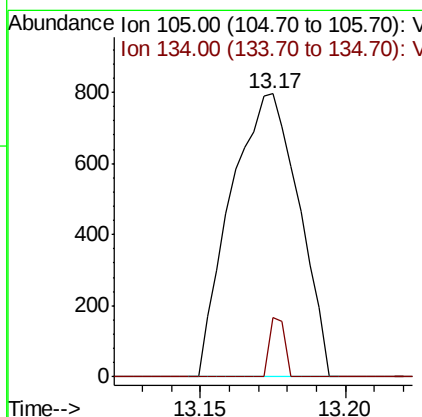
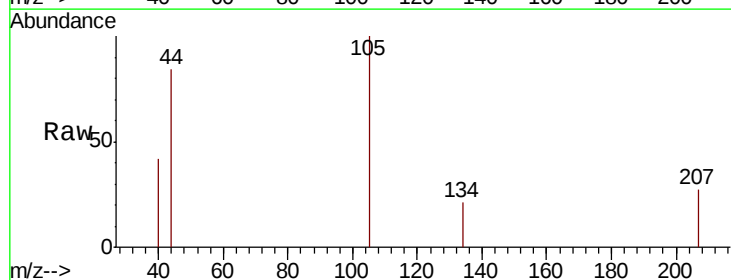
Instrument :
MSVOA_N
ClientSampled :
RT-3422

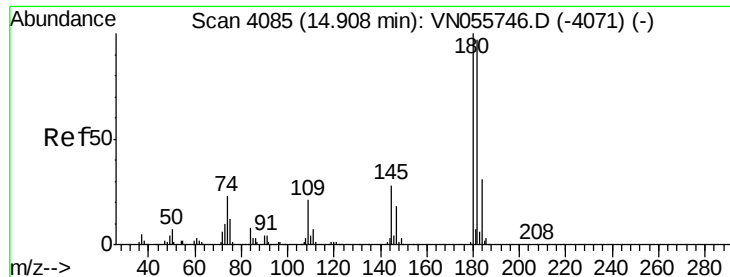
Tot Ion:105 Resp: 1592
Ion Ratio Lower Upper
105 100
120 50.6 23.0 69.0



#85
sec-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3546
Delta R.T. 0.00 min
Lab File: VN055857.D
Acq: 28 May 2019 17:02

Tgt Ion:105 Resp: 1293
Ion Ratio Lower Upper
105 100
134 4.8 10.4 31.2#

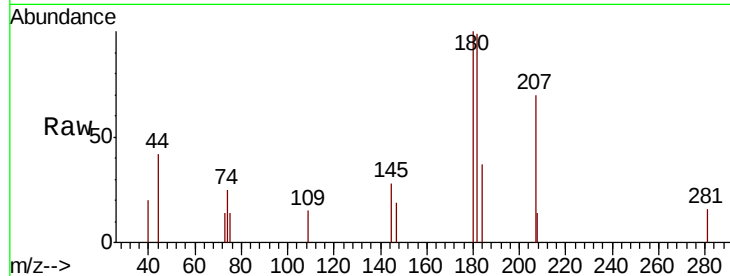




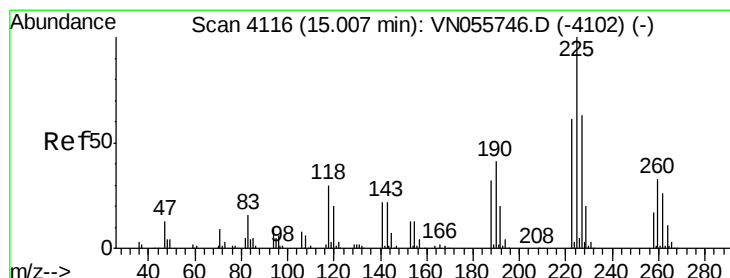
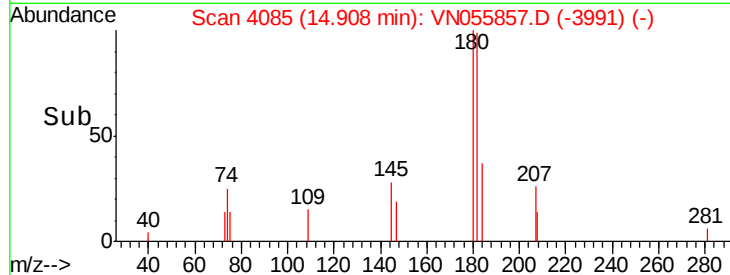
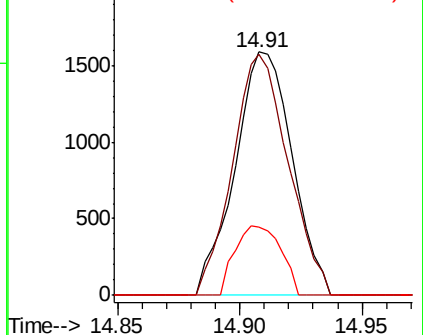
#93
 1,2,4-Trichlorobenzene
 Concen: 4.286 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055857.D
 Acq: 28 May 2019 17:02

Instrument :
 MSVOA_N
 ClientSampled :
 RT-3422

Tot Ion:180 Resp: 2577
 Ion Ratio Lower Upper
 180 100
 182 96.4 48.3 144.9
 145 22.8 14.0 41.9

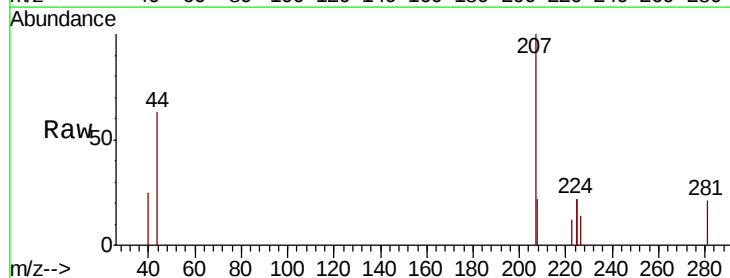


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

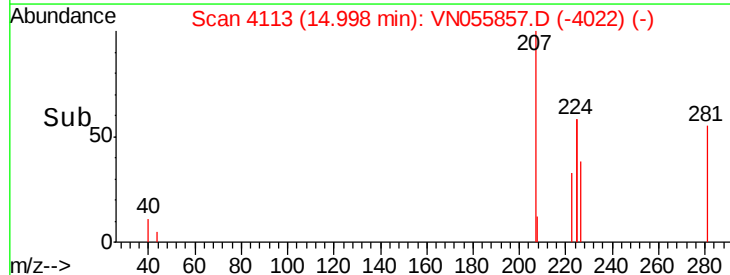
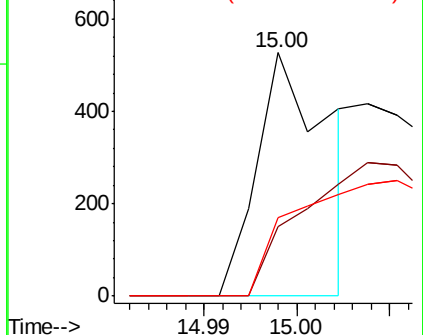


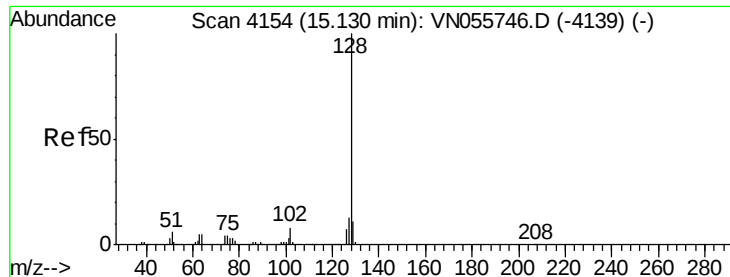
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4113
 Delta R.T. -0.01 min
 Lab File: VN055857.D
 Acq: 28 May 2019 17:02

Tgt Ion:225 Resp: 285
 Ion Ratio Lower Upper
 225 100
 223 104.6 30.9 92.7#
 227 99.6 31.6 94.7#



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





#95

Naphthalene

Concen: 0.907 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055857.D

Acq: 28 May 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

RT-3422

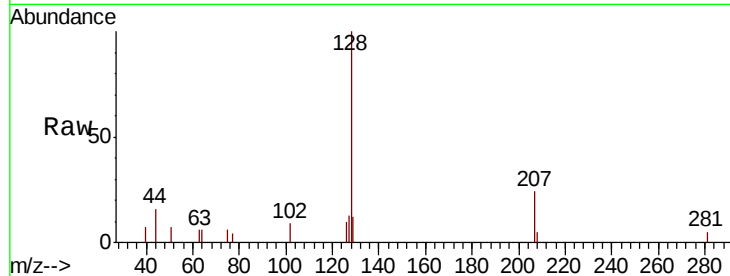
Tot Ion:128 Resp: 7958

Ion Ratio Lower Upper

128 100

127 10.9 10.3 15.5

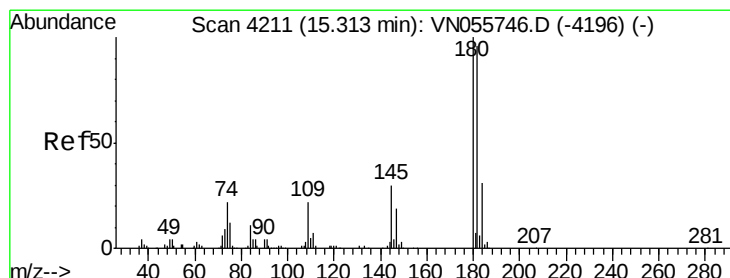
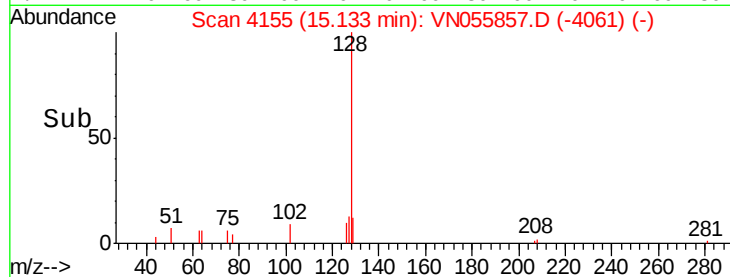
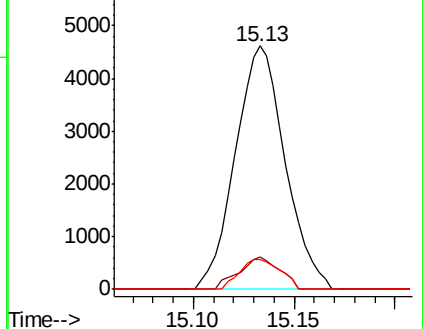
129 10.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.923 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055857.D

Acq: 28 May 2019 17:02

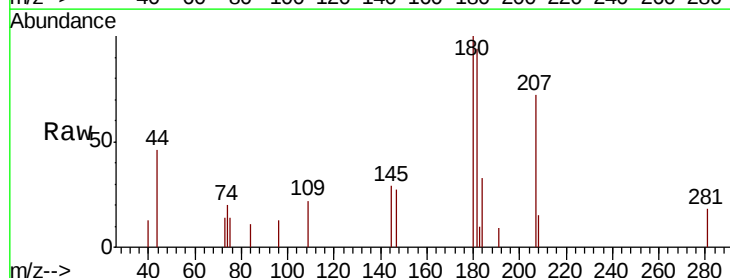
Tgt Ion:180 Resp: 3121

Ion Ratio Lower Upper

180 100

182 96.1 47.9 143.7

145 27.8 14.9 44.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

