

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060319\
 Data File : VN055967.D
 Acq On : 3 Jun 2019 17:35
 Operator : JC/SP
 Sample : K3097-03
 Misc : 5.02µ/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 04 01:51:56 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	330587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	498273	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	186125	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	163121	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
35) Dibromofluoromethane	7.59	113	140100	44.47	ug/l	0.00
Spiked Amount			Recovery	=	88.94%	
50) Toluene-d8	10.09	98	591397	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
62) 4-Bromofluorobenzene	12.40	95	201385	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	

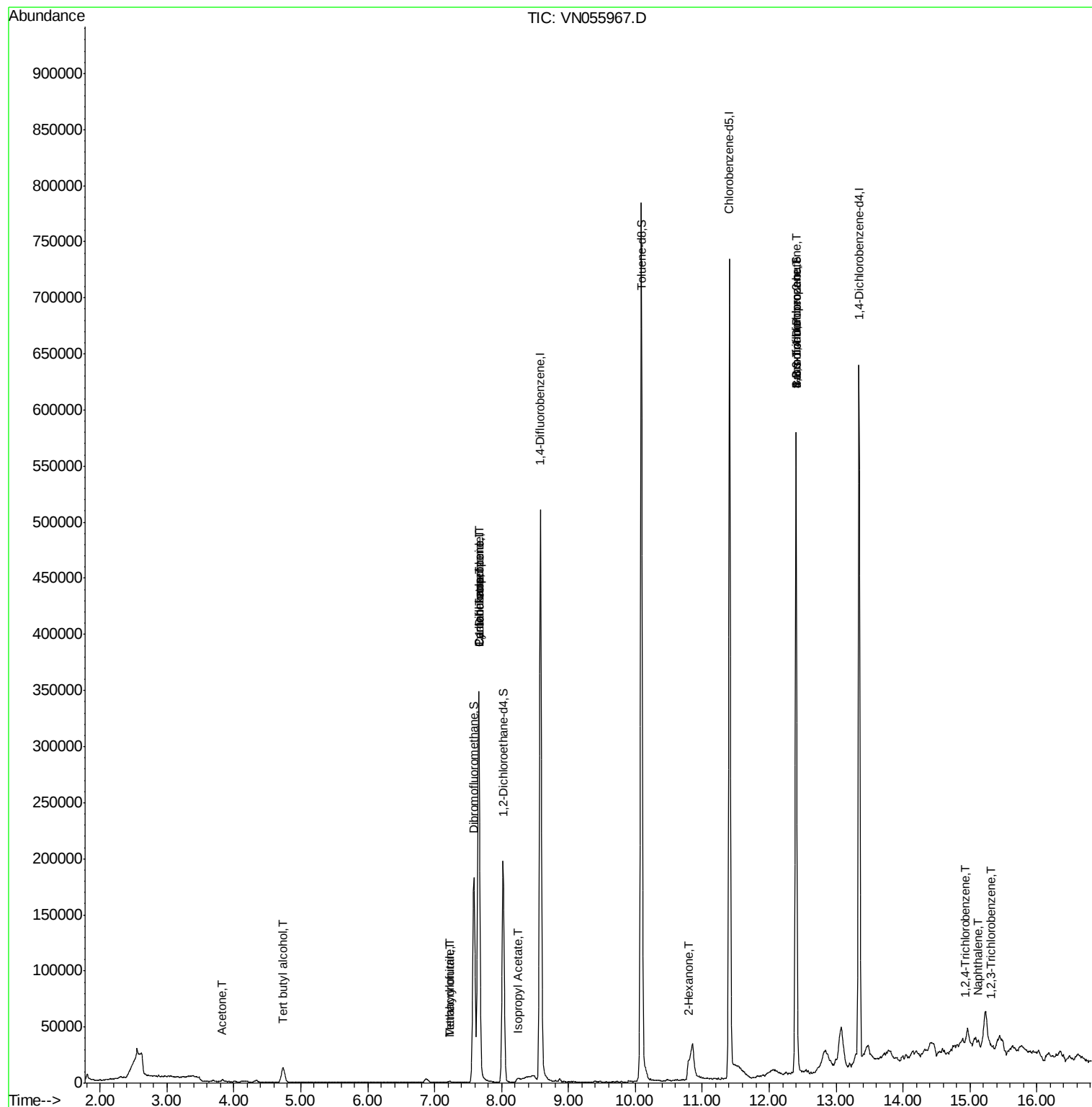
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	12838	19.681	ug/l #	74
16) Acetone	3.83	43	4300	2.865	ug/l	92
18) Methyl Acetate	4.33	43	1915	Below Cal		90
29) Tetrahydrofuran	7.22	42	955	0.720	ug/l #	35
31) Cyclohexane	7.66	56	4840	0.945	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	19817	4.564	ug/l #	47
38) Carbon Tetrachloride	7.66	117	27233	6.021	ug/l #	14
41) Methacrylonitrile	7.22	41	528	0.249	ug/l #	19
43) Isopropyl Acetate	8.25	43	3149	0.447	ug/l #	53
59) 2-Hexanone	10.80	43	4191	1.419	ug/l #	23
71) Bromoform	12.40	173	1380	0.443	ug/l #	1
73) Isopropylbenzene	12.25	105	490	Below Cal	#	48
74) N-amyl acetate	12.09	43	63	Below Cal	#	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	46	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	90523	26.783	ug/l #	100
79) 2-Chlorotoluene	12.67	91	232	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	534	Below Cal		84
81) trans-1,4-Dichloro-2-buten	12.40	75	90523	65.438	ug/l #	15
83) tert-Butylbenzene	13.17	119	266	Below Cal		78
84) 1,2,4-Trimethylbenzene	13.03	105	315	Below Cal		99
85) sec-Butylbenzene	13.17	105	603	Below Cal		78
93) 1,2,4-Trichlorobenzene	14.91	180	737	3.826	ug/l #	81
94) Hexachlorobutadiene	15.01	225	30	Below Cal	#	19
95) Naphthalene	15.13	128	3294	0.383	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.31	180	924	0.279	ug/l #	56

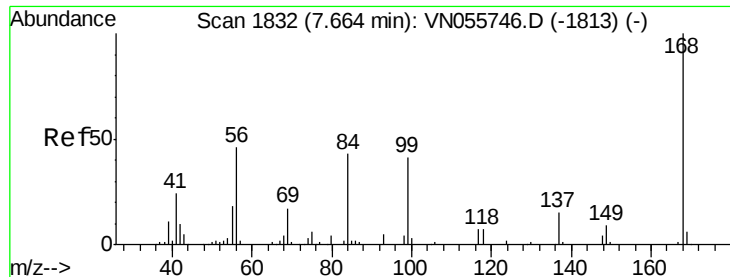
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 04 01:51:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
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# 1831

Delta R.T. -0.00 min

Lab File: VN055967.D

Acq: 3 Jun 2019 17:35

Instrument :

MSVOA_N

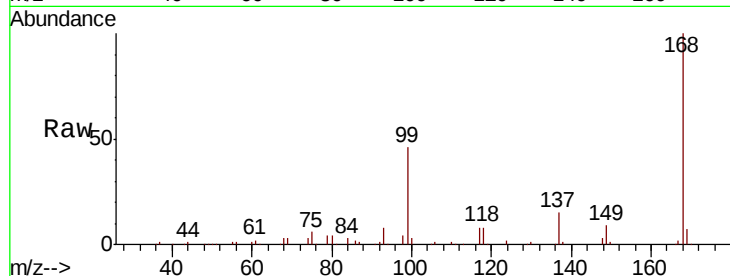
ClientSampled :

Tot Ion:168 Resp: 330587

Ion Ratio Lower Upper

168 100

99 45.6 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

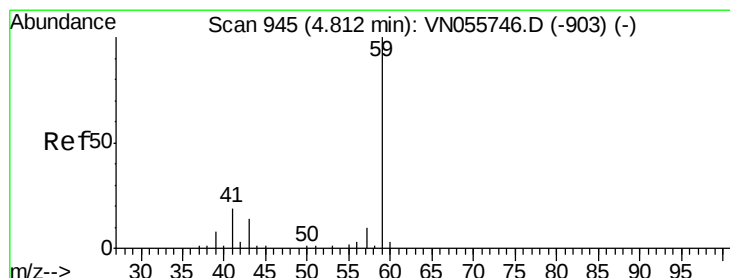
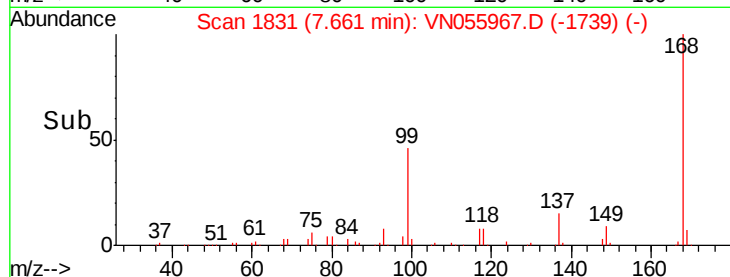
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 19.681 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.08 min

Lab File: VN055967.D

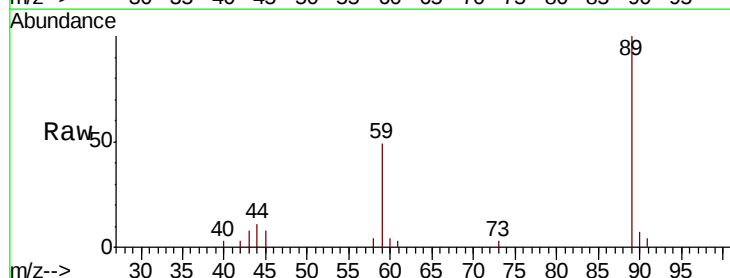
Acq: 3 Jun 2019 17:35

Tgt Ion: 59 Resp: 12838

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

4.73

4000

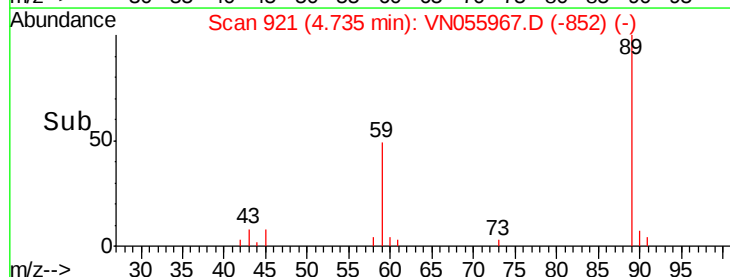
3000

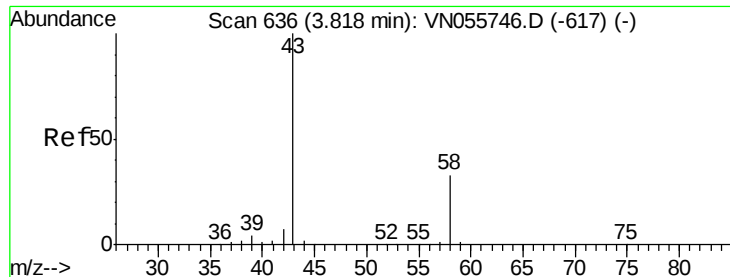
2000

1000

0

Time-->





#16

Acetone

Concen: 2.865 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.02 min

Lab File: VN055967.D

Acq: 3 Jun 2019 17:35

Instrument :

MSVOA_N

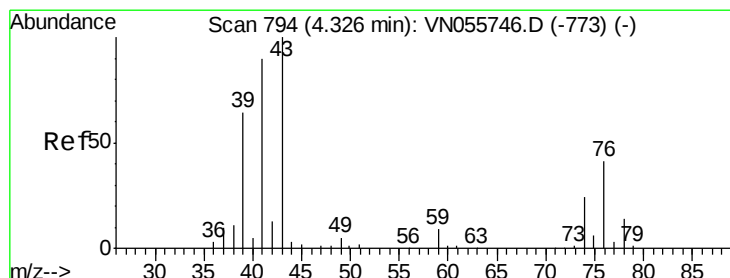
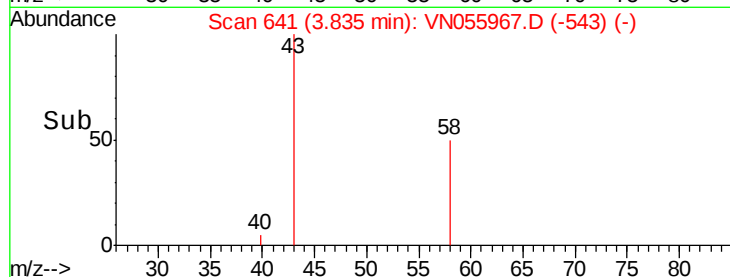
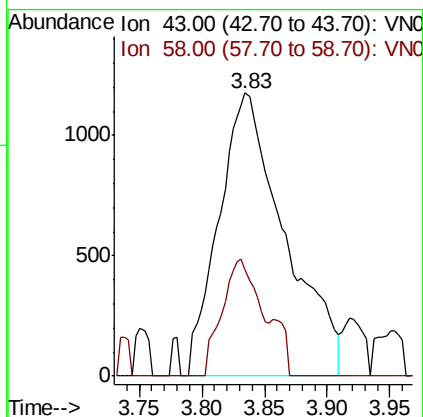
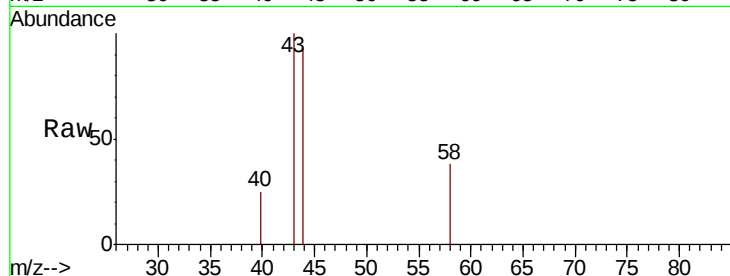
ClientSampled :

Tot Ion: 43 Resp: 4300

Ion Ratio Lower Upper

43 100

58 37.6 26.6 39.8



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055967.D

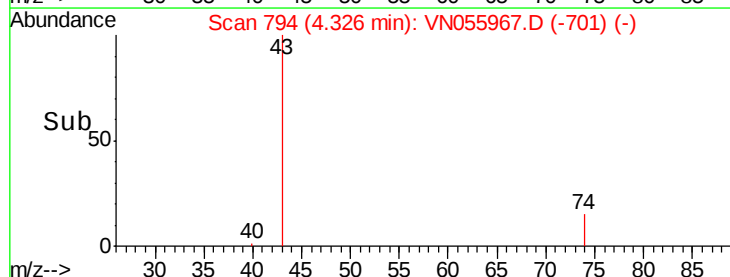
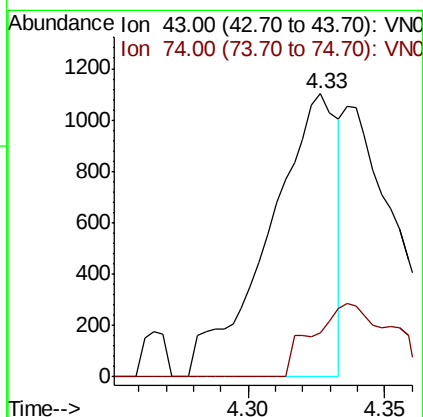
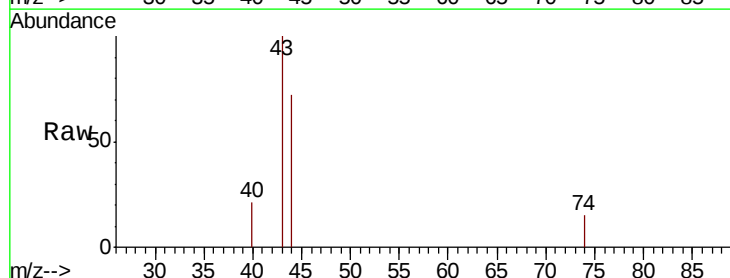
Acq: 3 Jun 2019 17:35

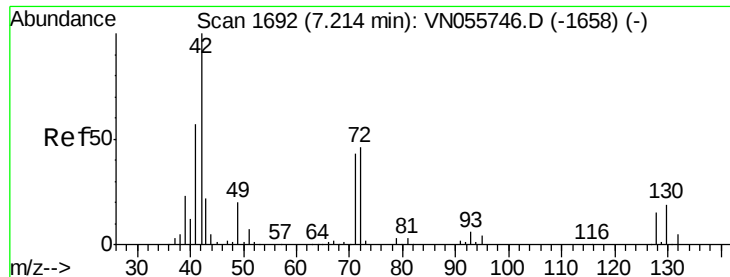
Tgt Ion: 43 Resp: 1915

Ion Ratio Lower Upper

43 100

74 28.8 19.3 28.9

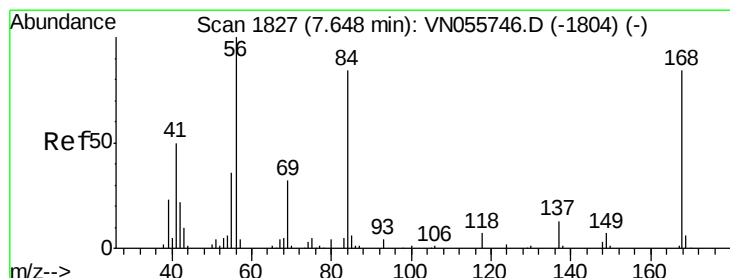
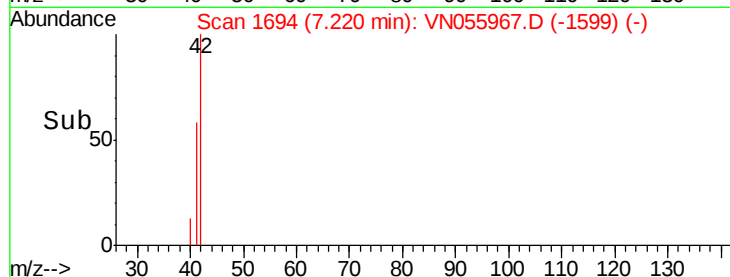
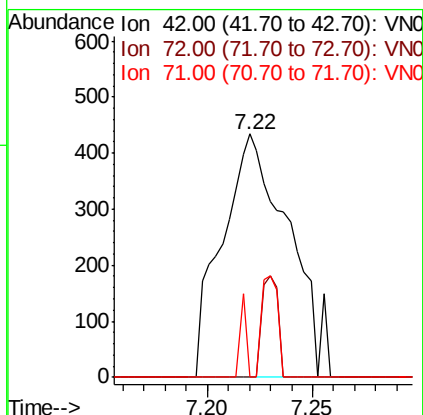
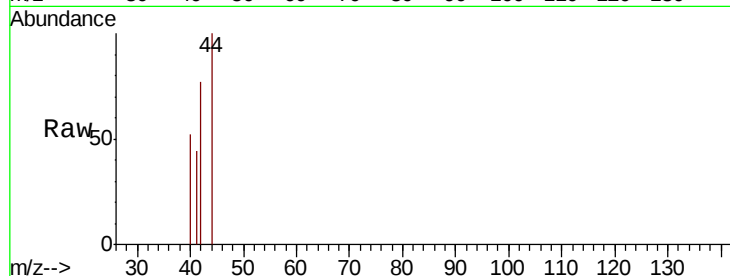




#29
Tetrahydrofuran
Concen: 0.720 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

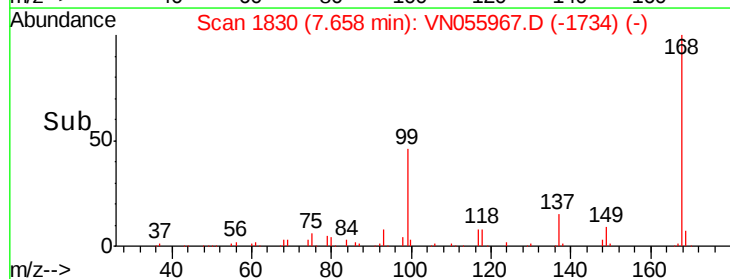
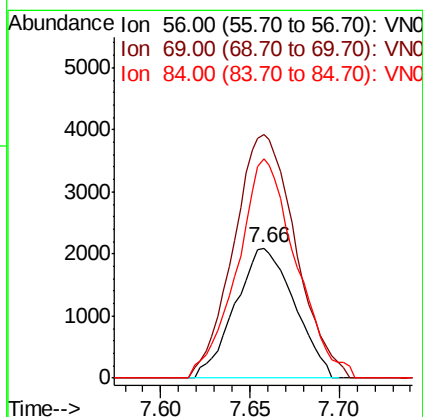
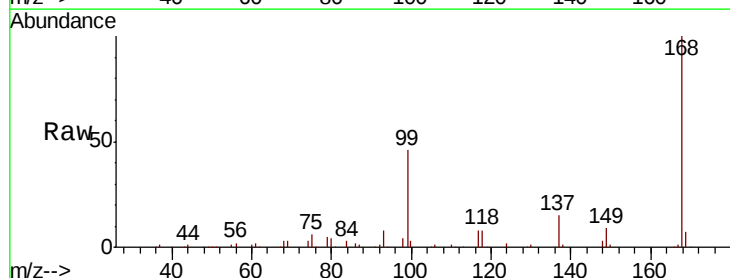
Instrument :
MSVOA_N
ClientSampleId :

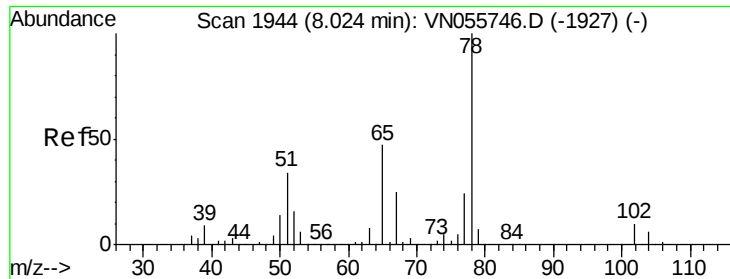
Tot Ion: 42 Resp: 955
Ion Ratio Lower Upper
42 100
72 0.0 35.9 53.9#
71 3.0 34.0 51.0#



#31
Cyclohexane
Concen: 0.945 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

Tgt Ion: 56 Resp: 4840
Ion Ratio Lower Upper
56 100
69 187.7 25.6 38.4#
84 169.2 67.4 101.0#

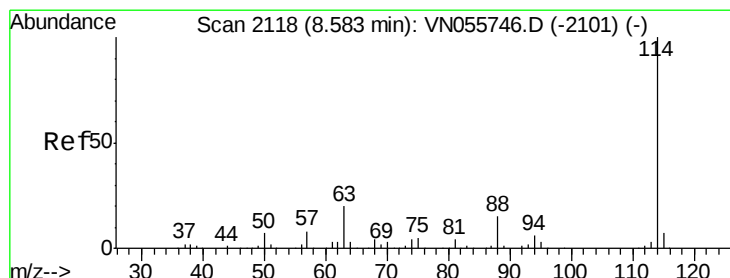
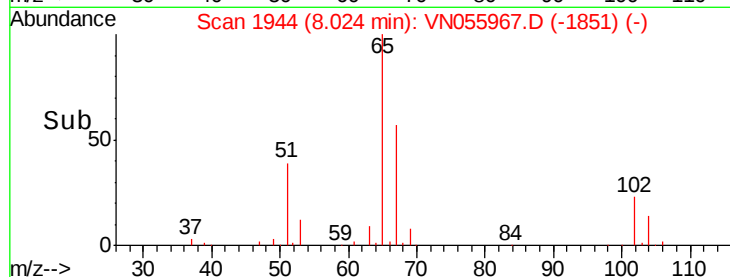
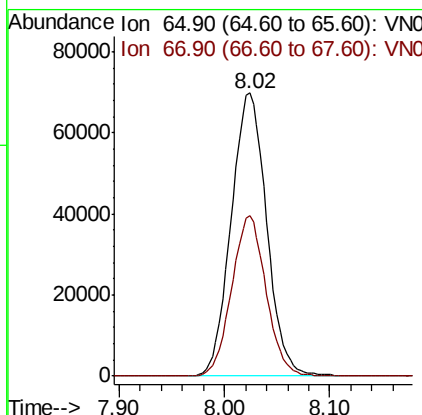
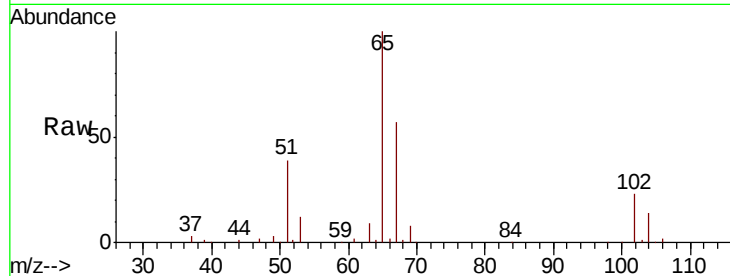




#33
 1,2-Dichloroethane-d4
 Concen: 47.779 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055967.D
 Acq: 3 Jun 2019 17:35

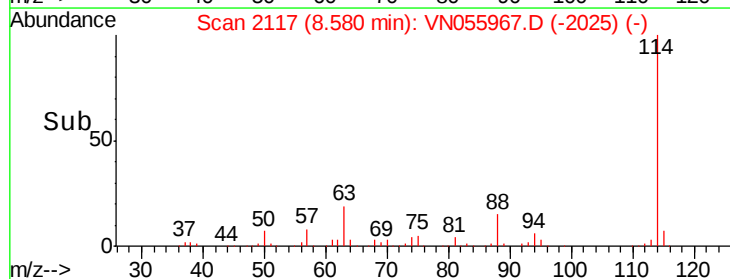
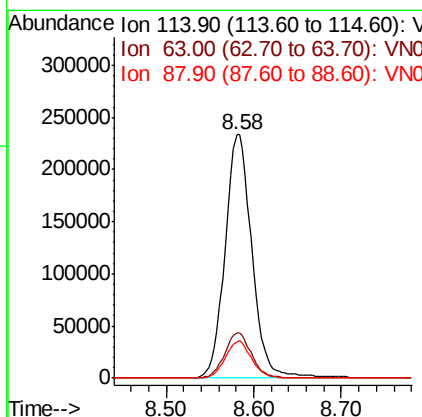
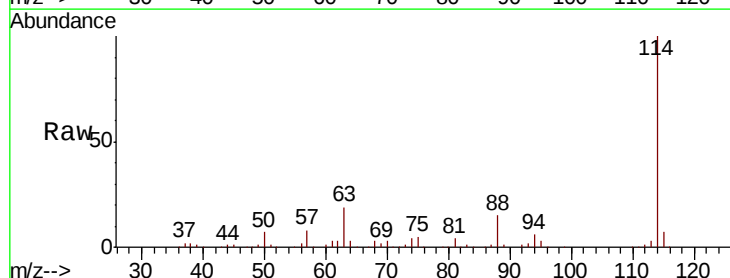
Instrument :
 MSVOA_N
 ClientSampled :

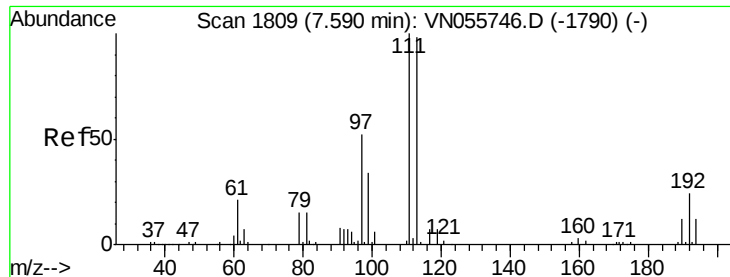
Tot Ion: 65 Resp: 163121
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VN055967.D
 Acq: 3 Jun 2019 17:35

Tgt Ion: 114 Resp: 498273
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 15.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 44.473 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN055967.D

Acq: 3 Jun 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :

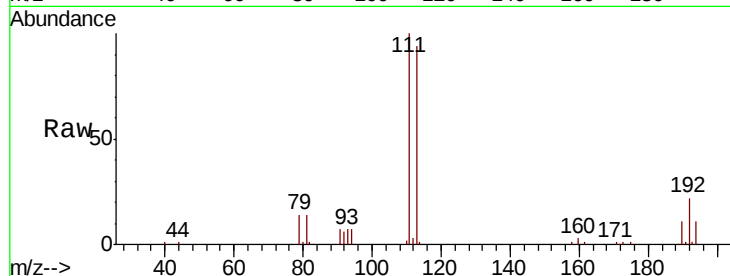
Tot Ion:113 Resp: 140100

Ion Ratio Lower Upper

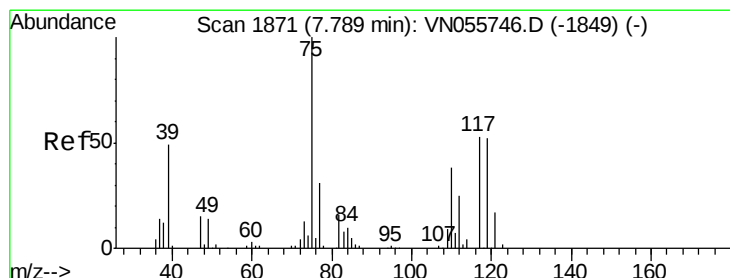
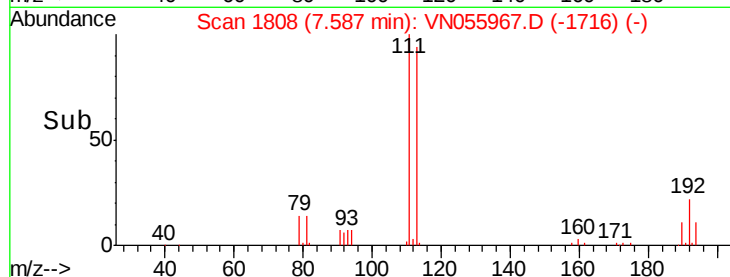
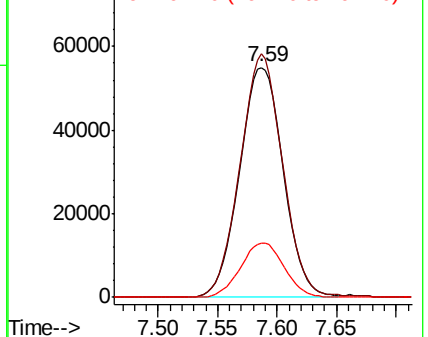
113 100

111 103.2 81.9 122.9

192 23.5 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: 4.564 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN055967.D

Acq: 3 Jun 2019 17:35

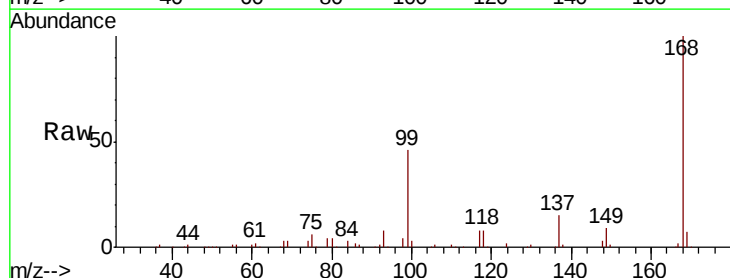
Tgt Ion: 75 Resp: 19817

Ion Ratio Lower Upper

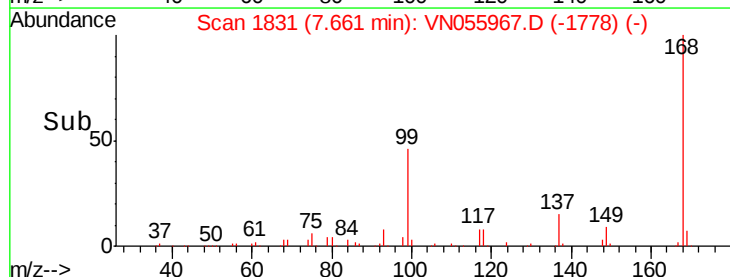
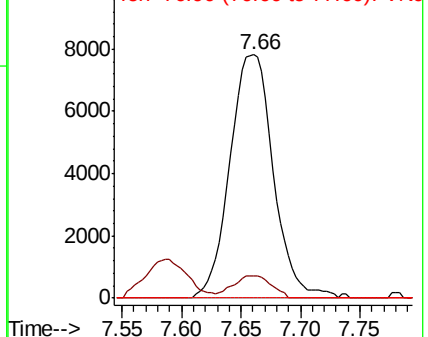
75 100

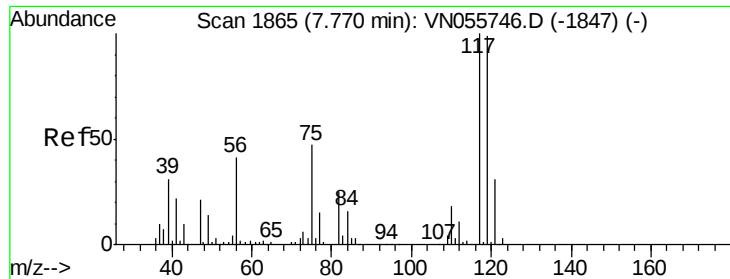
110 8.1 19.0 57.0#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V

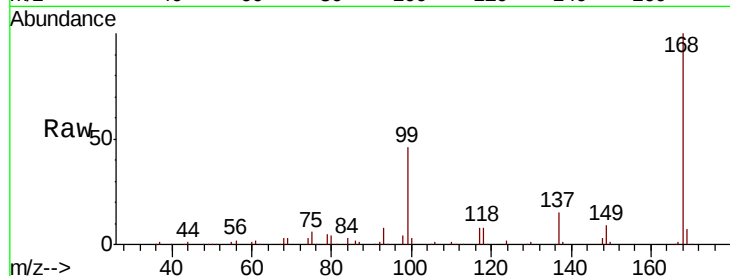




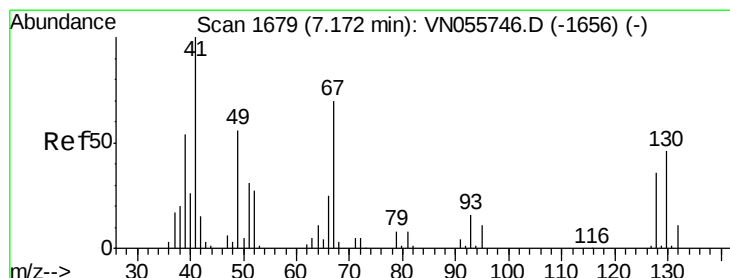
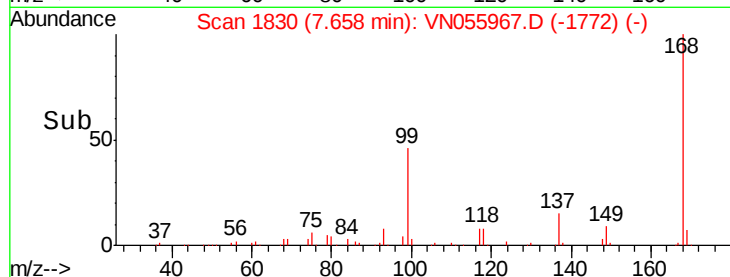
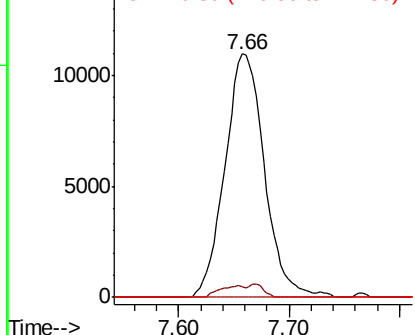
#38
Carbon Tetrachloride
Concen: 6.021 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 117 Resp: 27233
Ion Ratio Lower Upper
117 100
119 4.3 79.0 118.6#
121 0.0 24.7 37.1#

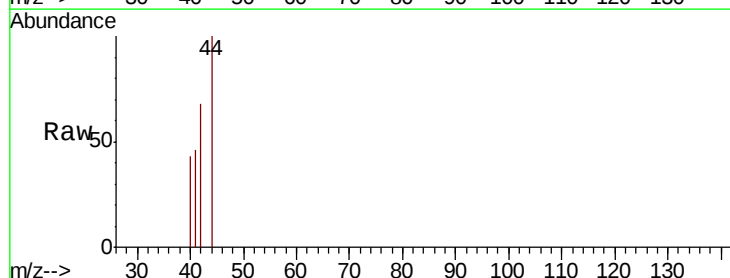


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

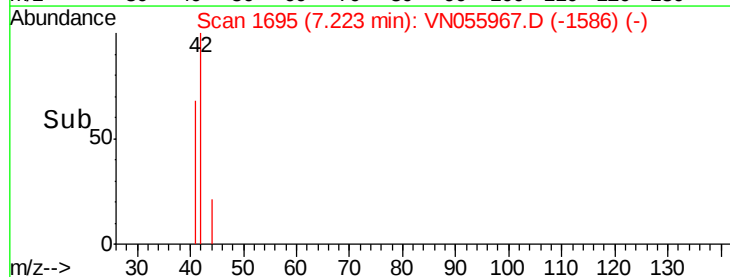
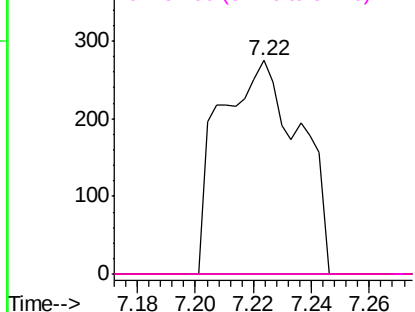


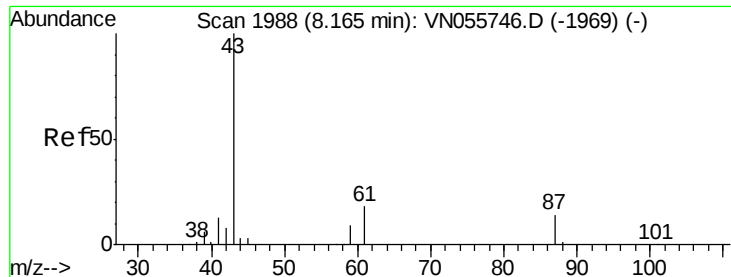
#41
Methacrylonitrile
Concen: 0.249 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.05 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

Tgt Ion: 41 Resp: 528
Ion Ratio Lower Upper
41 100
39 0.0 45.6 68.4#
67 0.0 67.7 101.5#
52 0.0 26.6 40.0#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 0.447 ug/l

RT: 8.25 min Scan# 2014

Delta R.T. 0.08 min

Lab File: VN055967.D

Acq: 3 Jun 2019 17:35

Instrument :

MSVOA_N

ClientSampled :

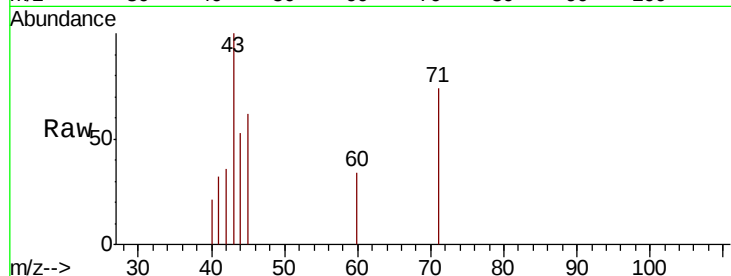
Tot Ion: 43 Resp: 3149

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

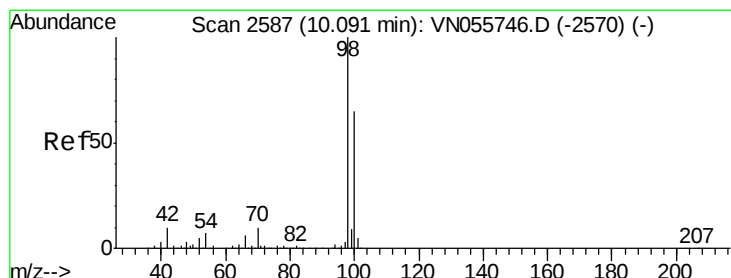
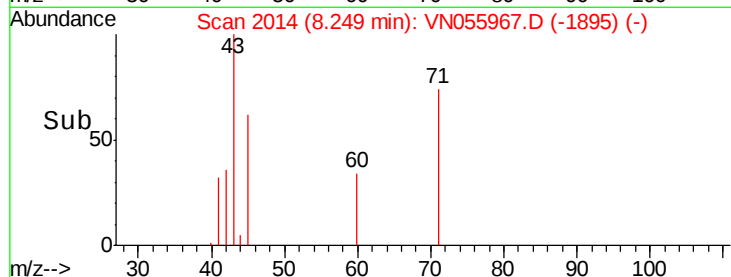
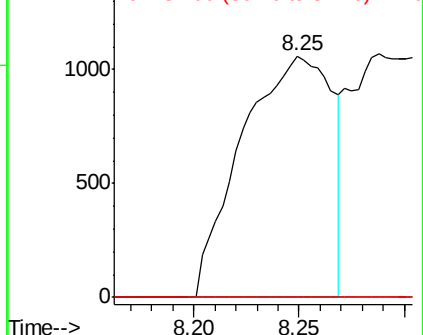
87 0.0 11.4 17.2#



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: 48.940 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055967.D

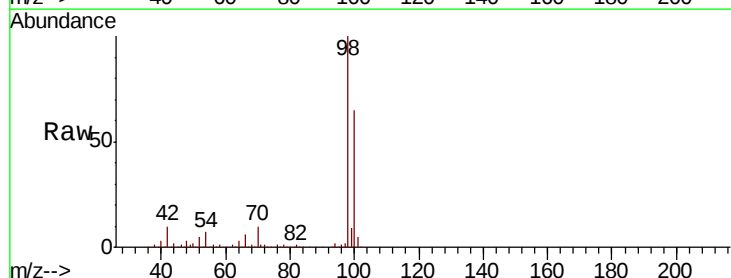
Acq: 3 Jun 2019 17:35

Tgt Ion: 98 Resp: 591397

Ion Ratio Lower Upper

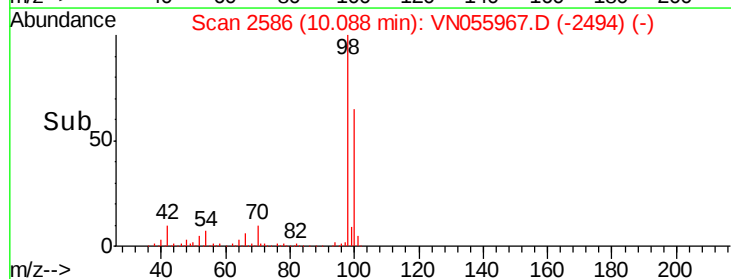
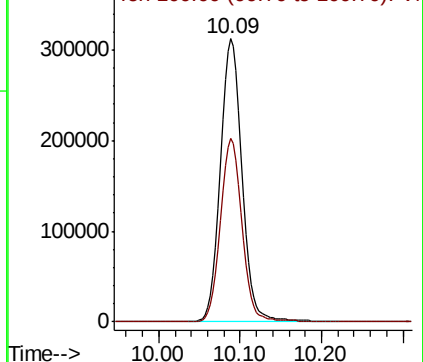
98 100

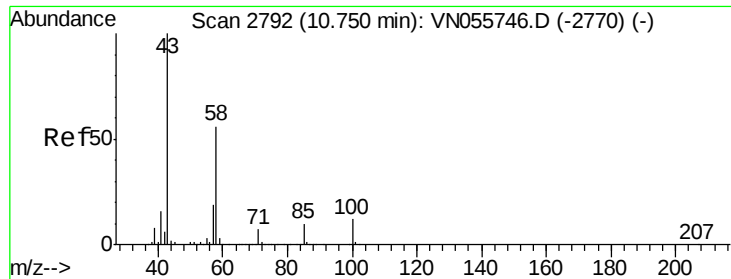
100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

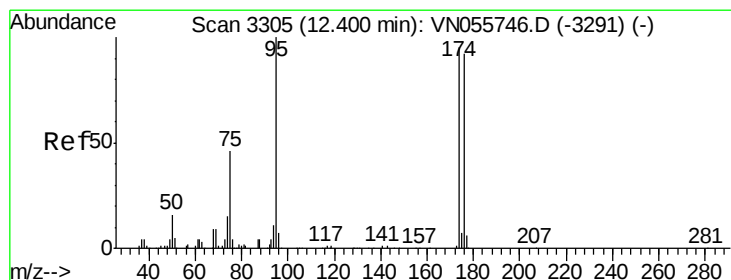
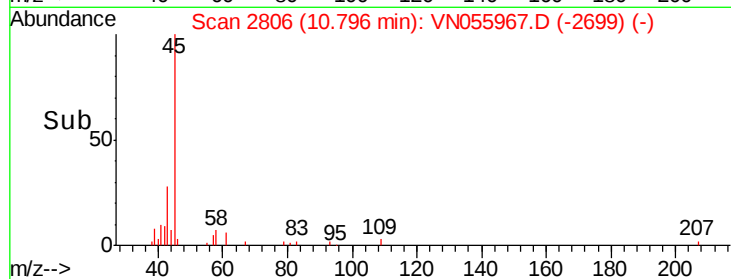
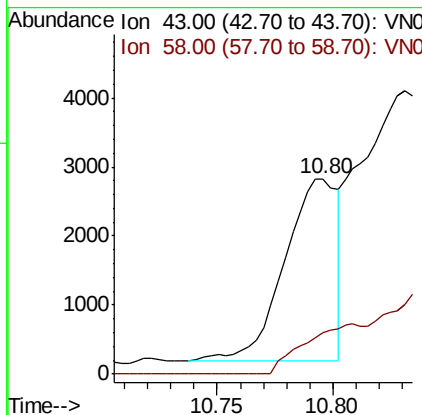
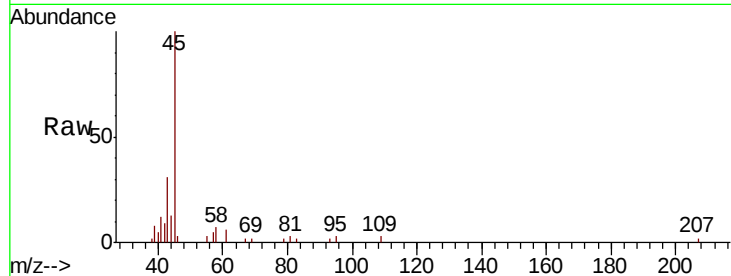




#59
2-Hexanone
Concen: 1.419 ug/l
RT: 10.80 min Scan# 2806
Delta R.T. 0.05 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

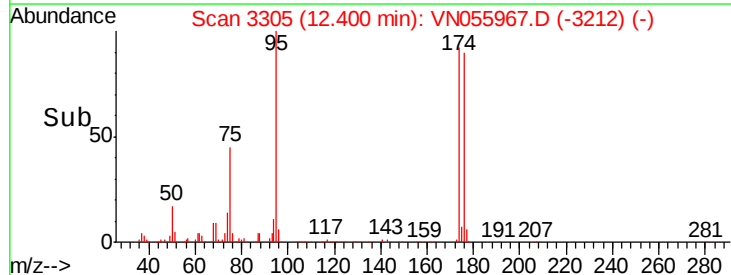
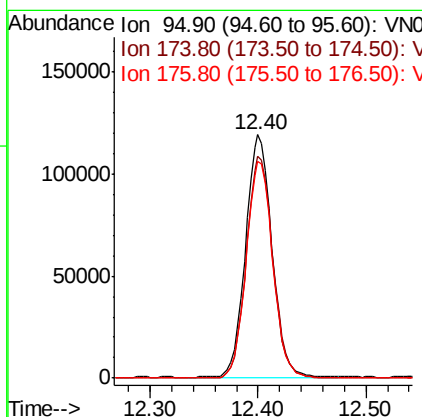
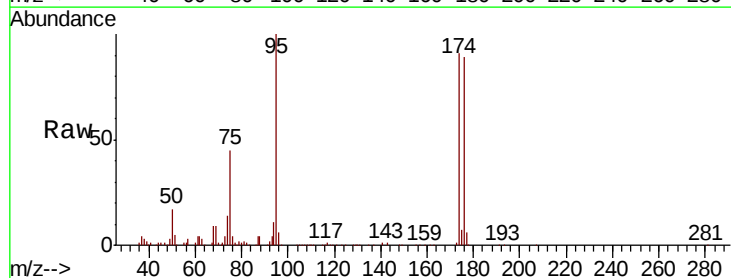
Instrument :
MSVOA_N
ClientSampleId :

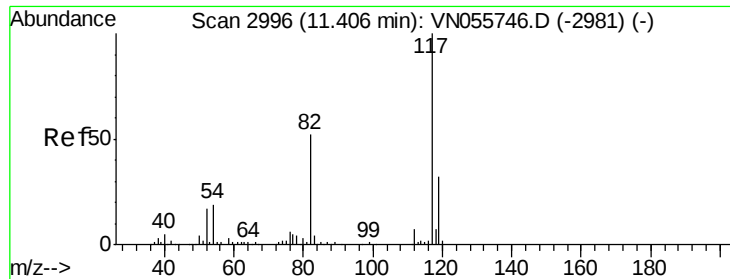
Tot Ion: 43 Resp: 4191
Ion Ratio Lower Upper
43 100
58 0.0 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 48.603 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

Tgt Ion: 95 Resp: 201385
Ion Ratio Lower Upper
95 100
174 92.5 0.0 191.0
176 90.1 0.0 185.2

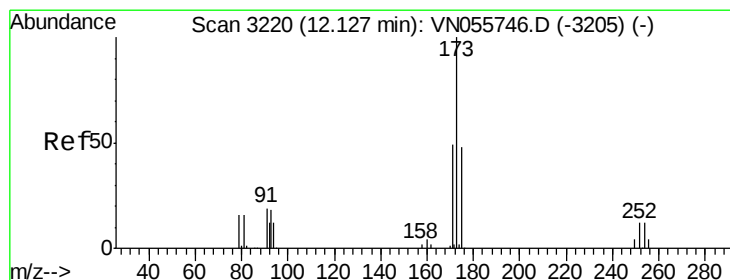
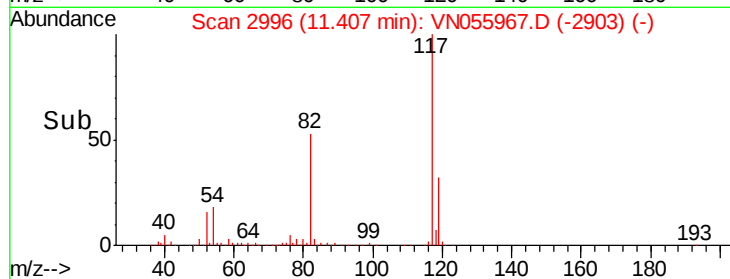
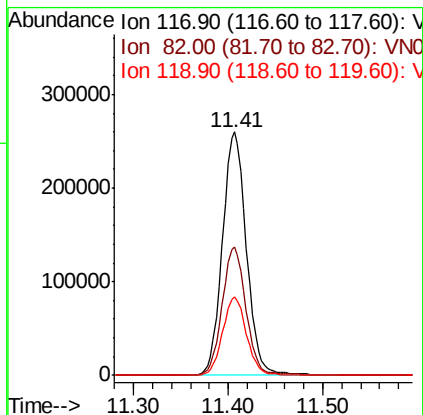
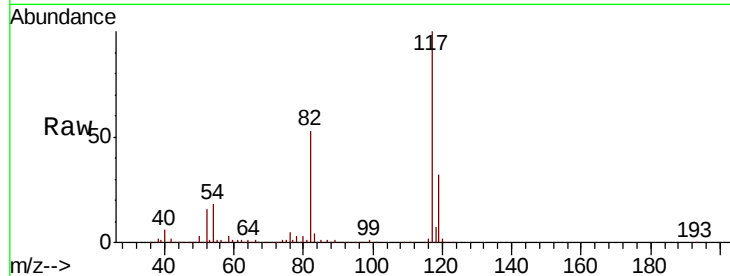




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

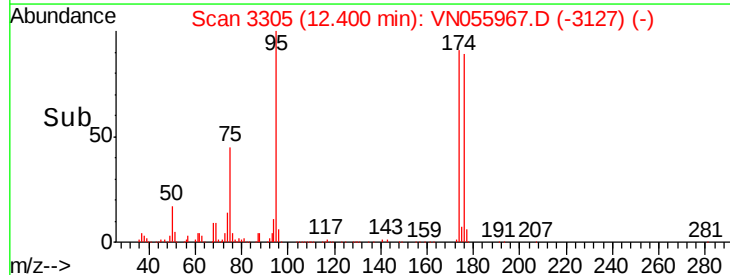
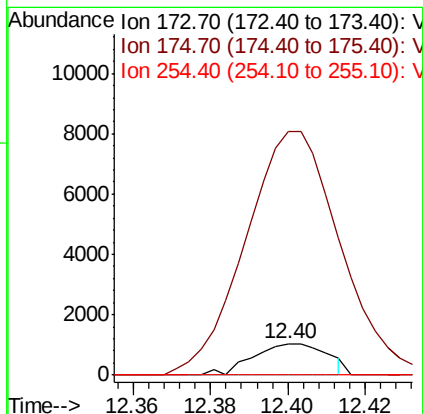
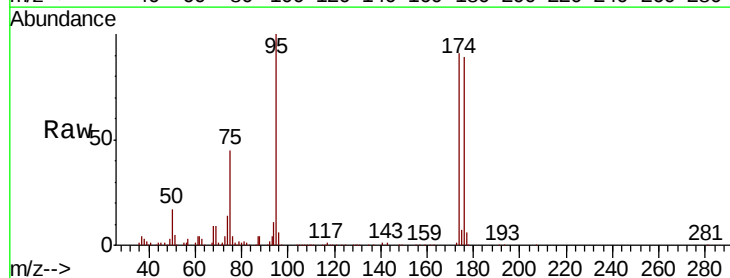
Instrument :
MSVOA_N
ClientSampleId :

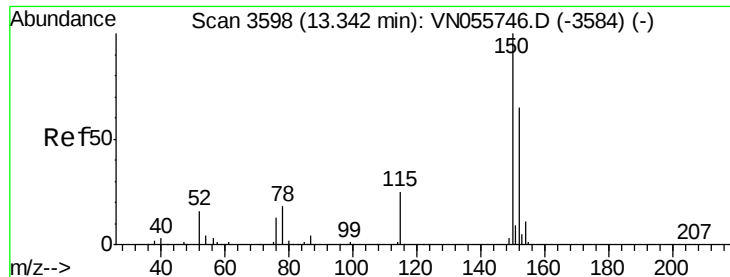
Tot Ion:117 Resp: 457882
Ion Ratio Lower Upper
117 100
82 52.5 41.8 62.8
119 32.2 25.4 38.0



#71
Bromoform
Concen: 0.443 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

Tgt Ion:173 Resp: 1380
Ion Ratio Lower Upper
173 100
175 871.2 24.3 72.8#
254 0.0 0.0 0.0



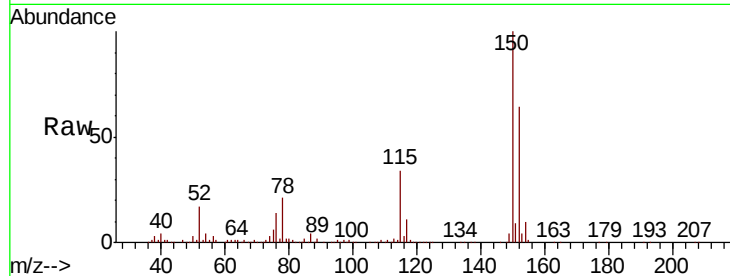


#72

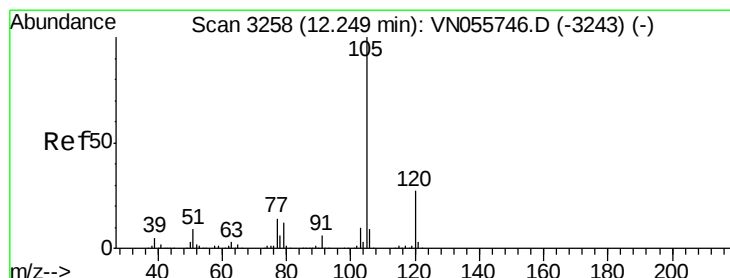
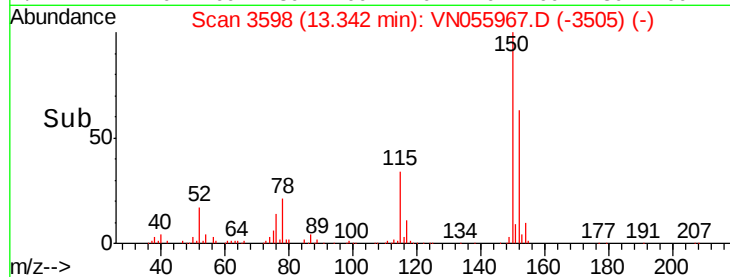
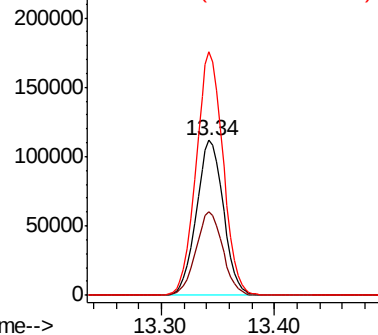
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.4	27.0	81.0
150	155.9	0.0	343.2



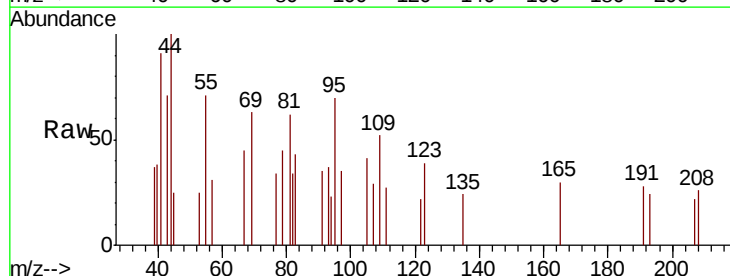
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



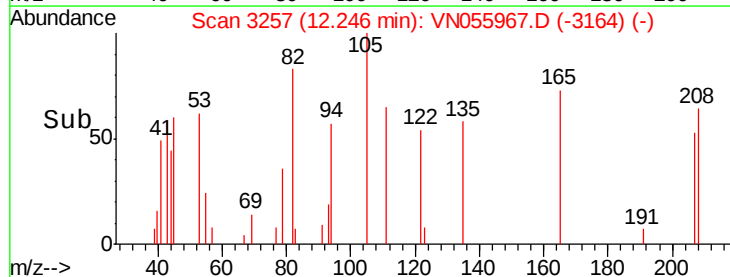
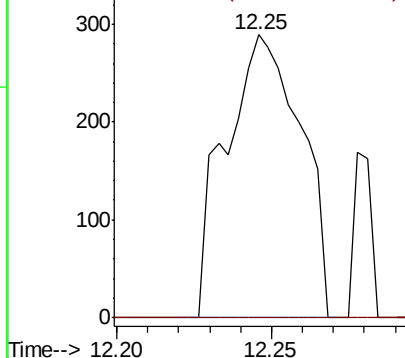
#73

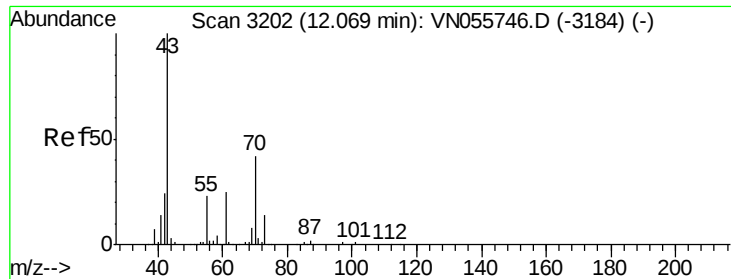
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3257
Delta R.T. -0.00 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.6	40.7#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

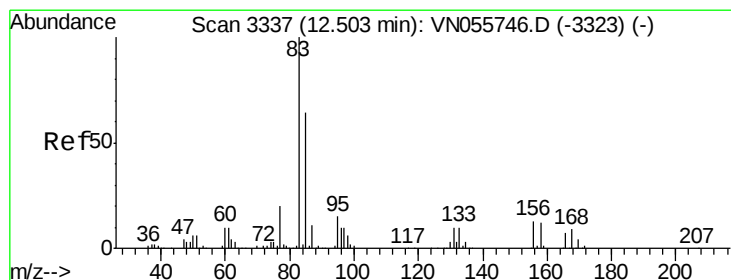
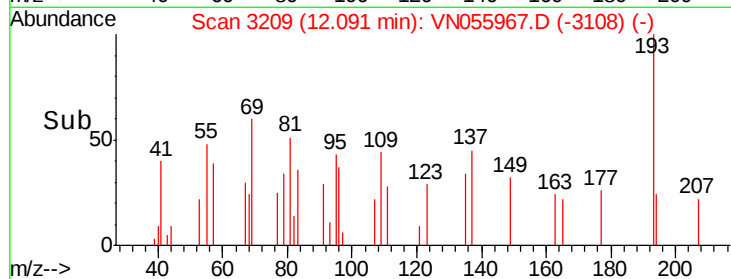
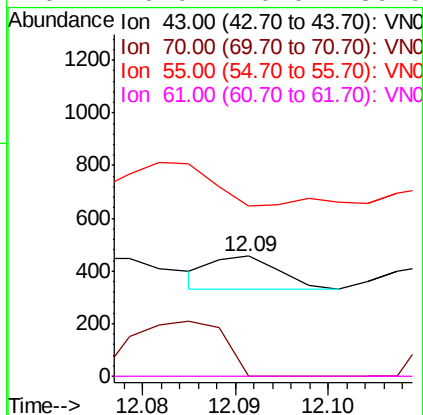
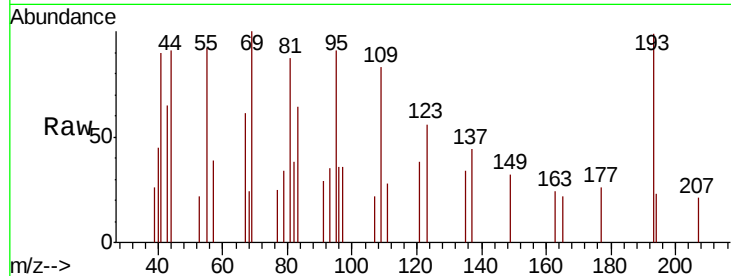




#74
N-amvl acetate
Concen: Below Cal
RT: 12.09 min Scan# 3209
Delta R.T. 0.02 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

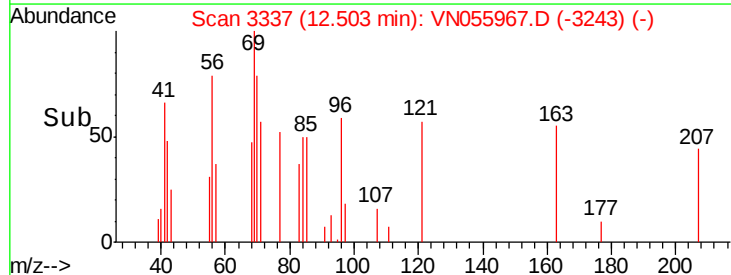
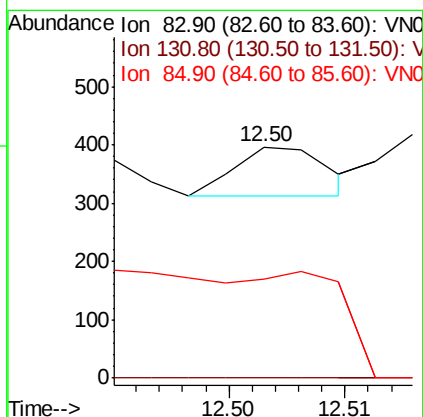
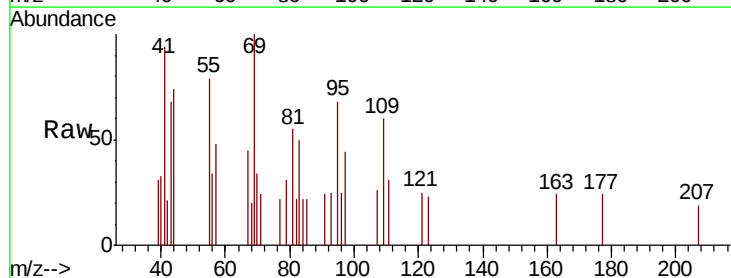
Instrument :
MSVOA_N
ClientSampled :

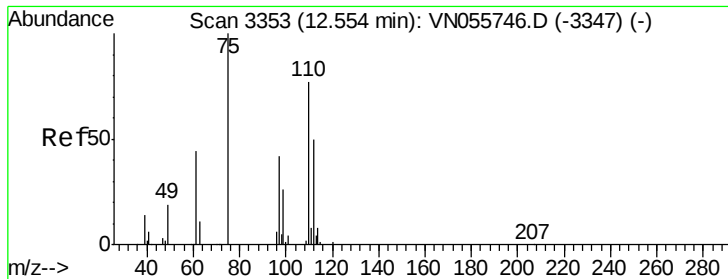
Tot Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
70 227.0 34.0 51.0#
55 242.9 18.6 28.0#
61 0.0 20.0 30.0#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.50 min Scan# 3337
Delta R.T. 0.00 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

Tgt Ion: 83 Resp: 46
Ion Ratio Lower Upper
83 100
131 0.0 5.4 16.2#
85 434.8 32.4 97.0#





#76

1,2,3-Trichloropropane

Concen: 26.783 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055967.D

Acq: 3 Jun 2019 17:35

Instrument :

MSVOA_N

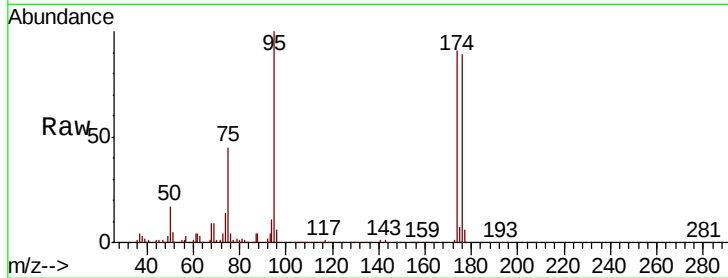
ClientSampleId :

Tot Ion: 75 Resp: 90523

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

60000

50000

40000

30000

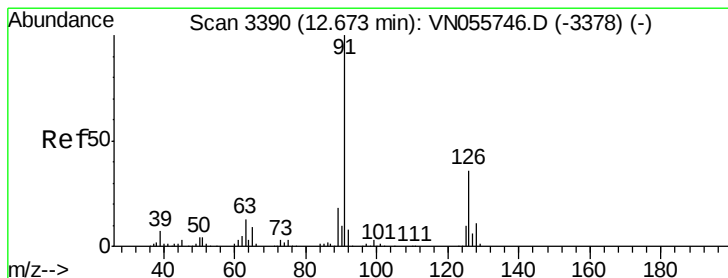
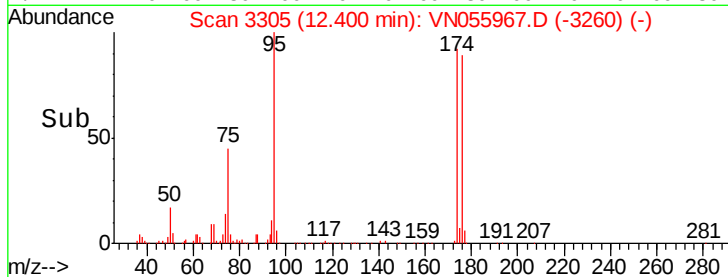
20000

10000

0

Time-->

12.35 12.40 12.45



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN055967.D

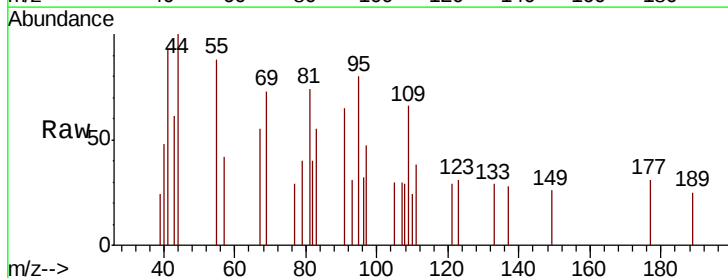
Acq: 3 Jun 2019 17:35

Tgt Ion: 91 Resp: 232

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

12.67

400

300

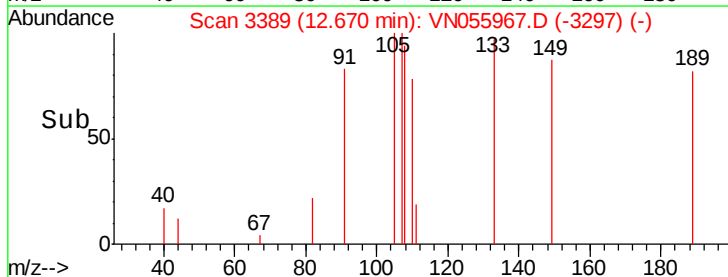
200

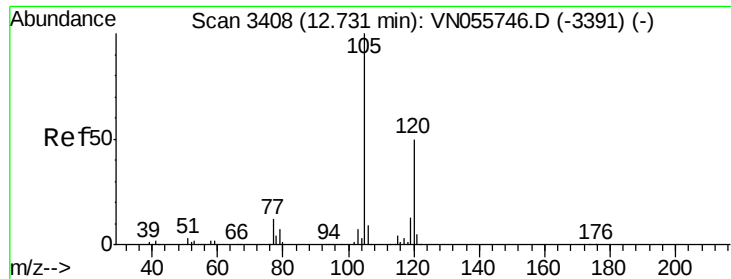
100

0

Time-->

12.65 12.70

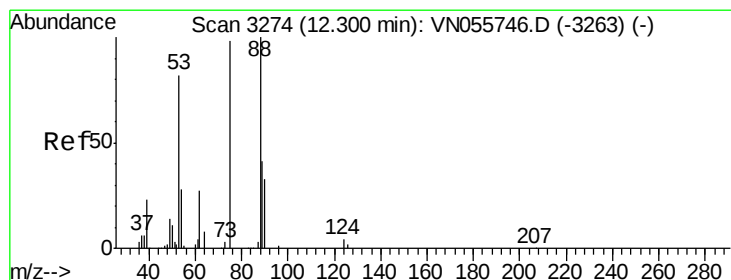
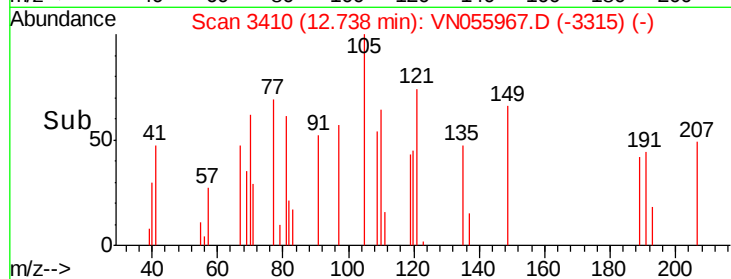
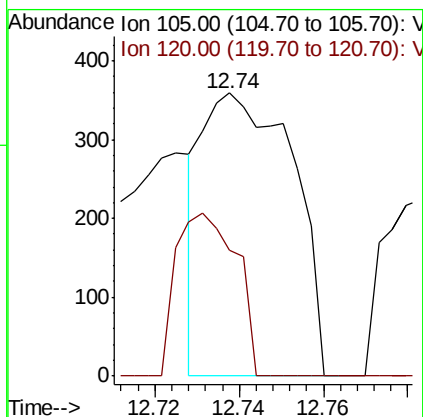
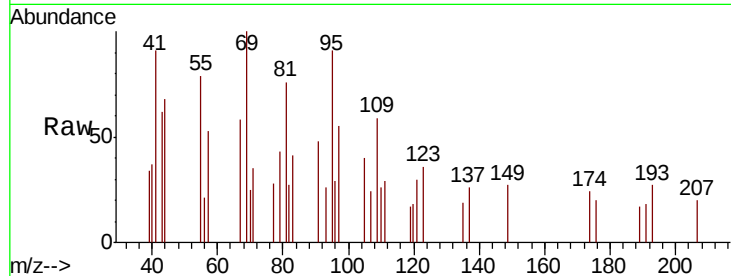




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.01 min
 Lab File: VN055967.D
 Acq: 3 Jun 2019 17:35

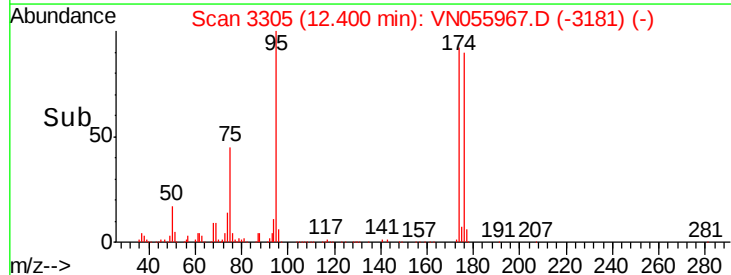
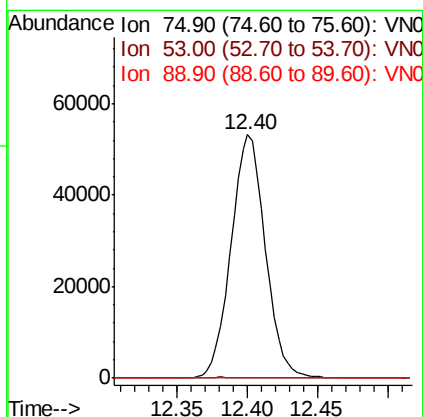
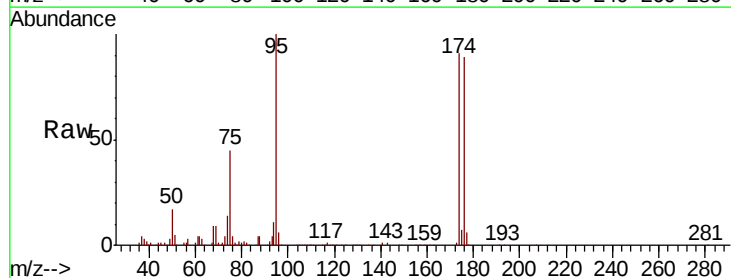
Instrument :
 MSVOA_N
 ClientSampled :

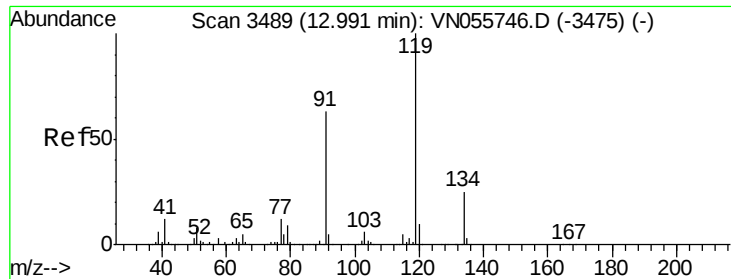
Tot Ion: 105 Resp: 534
 Ion Ratio Lower Upper
 105 100
 120 38.4 24.7 74.1



#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: VN055967.D
 Acq: 3 Jun 2019 17:35

Tgt Ion: 75 Resp: 90523
 Ion Ratio Lower Upper
 75 100
 53 0.2 68.1 102.1#
 89 0.0 36.9 55.3#

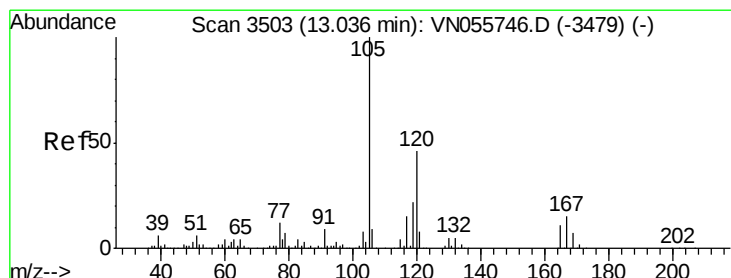
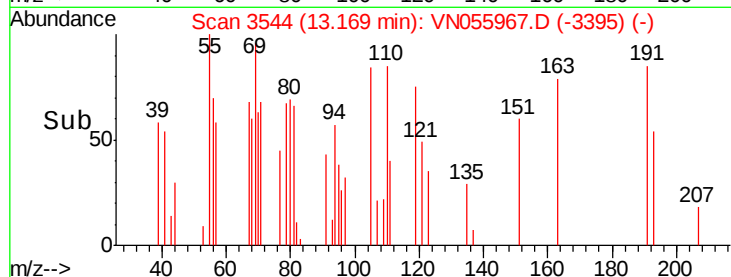
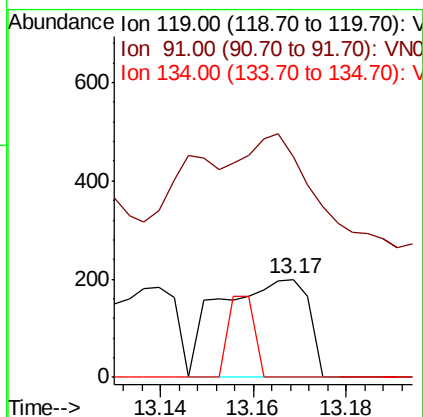
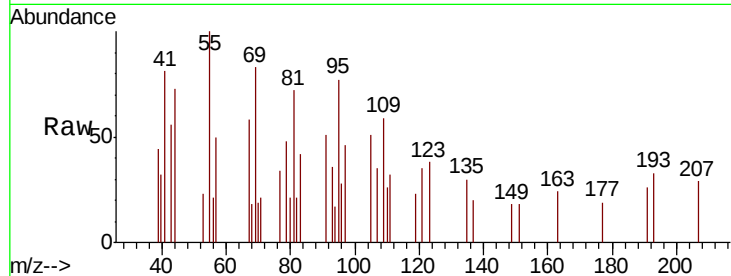




#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.17 min Scan# 3544
Delta R.T. 0.18 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

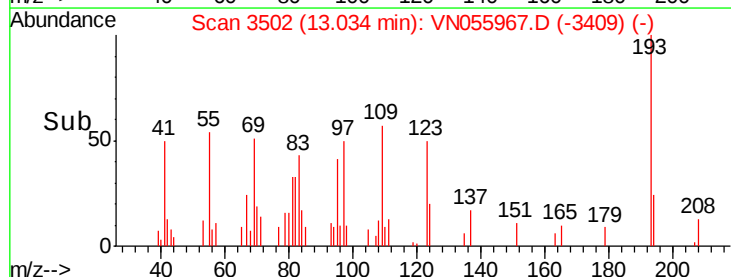
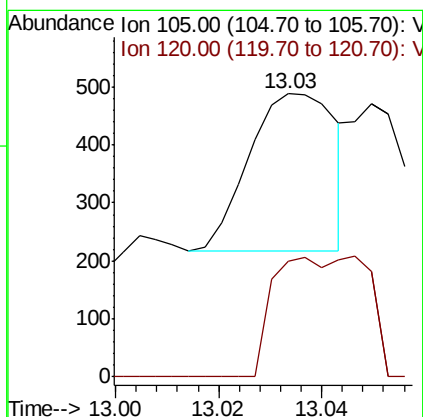
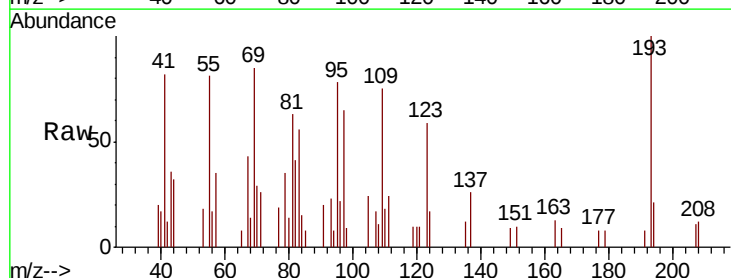
Instrument :
MSVOA_N
ClientSampleId :

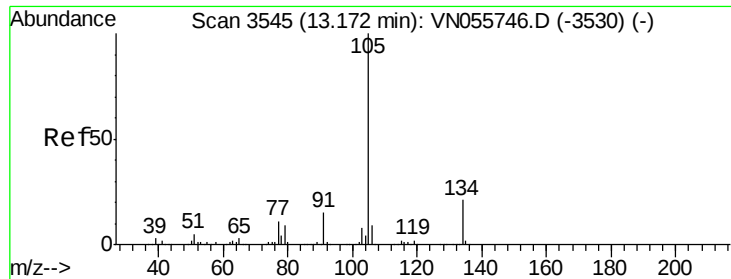
Tot Ion:119 Resp: 266
Ion Ratio Lower Upper
119 100
91 85.0 30.9 92.8
134 24.1 13.3 39.8



#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.03 min Scan# 3502
Delta R.T. -0.00 min
Lab File: VN055967.D
Acq: 3 Jun 2019 17:35

Tgt Ion:105 Resp: 315
Ion Ratio Lower Upper
105 100
120 46.7 23.0 69.0

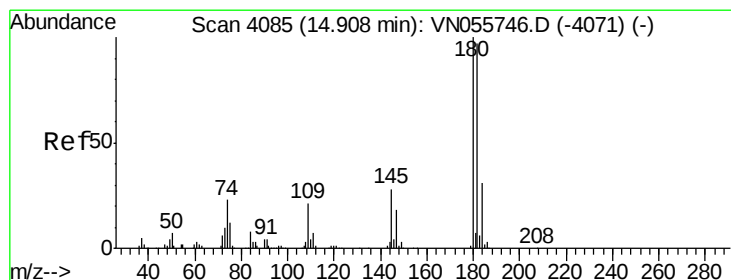
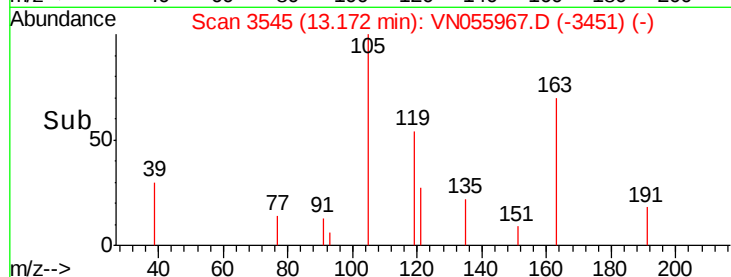
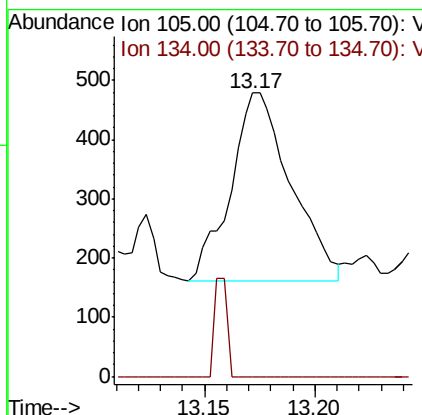
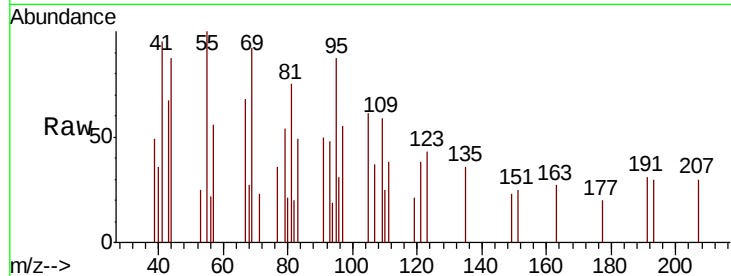




#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055967.D
 Acq: 3 Jun 2019 17:35

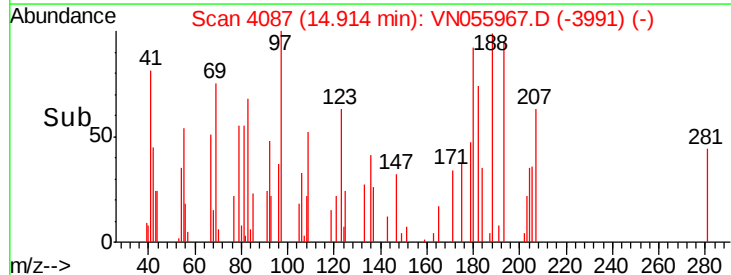
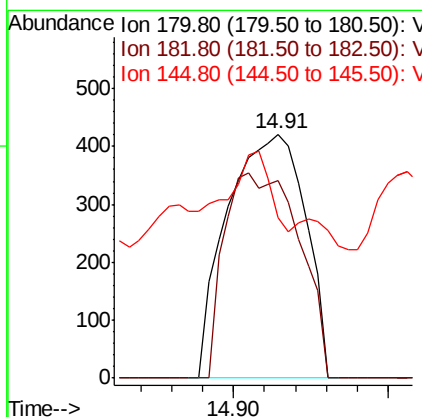
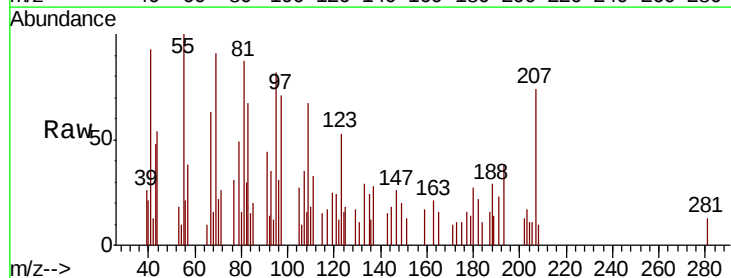
Instrument :
 MSVOA_N
 ClientSampled :

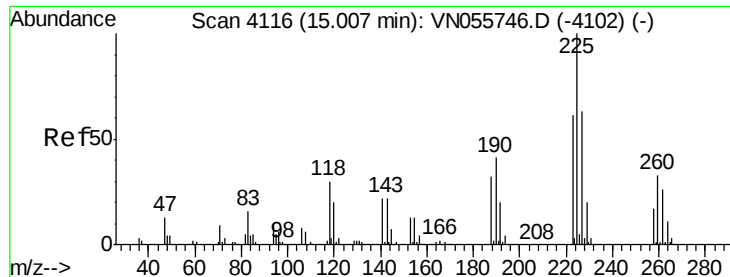
Tot Ion:105 Resp: 603
 Ion Ratio Lower Upper
 105 100
 134 10.6 10.4 31.2



#93
 1,2,4-Trichlorobenzene
 Concen: 3.826 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055967.D
 Acq: 3 Jun 2019 17:35

Tgt Ion:180 Resp: 737
 Ion Ratio Lower Upper
 180 100
 182 80.7 48.3 144.9
 145 12.3 14.0 41.9#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN055967.D

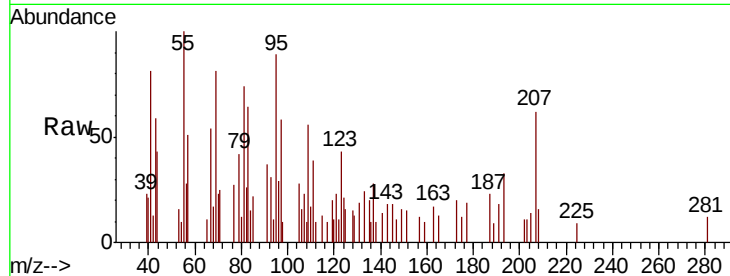
Acq: 3 Jun 2019 17:35

Instrument :

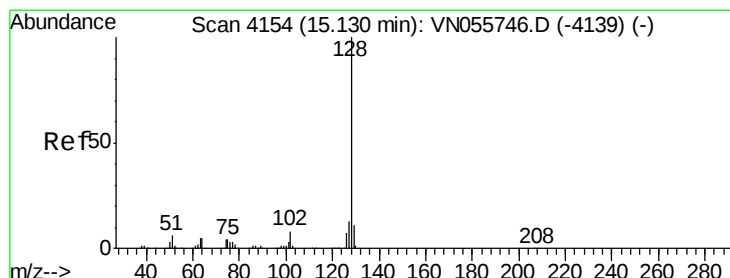
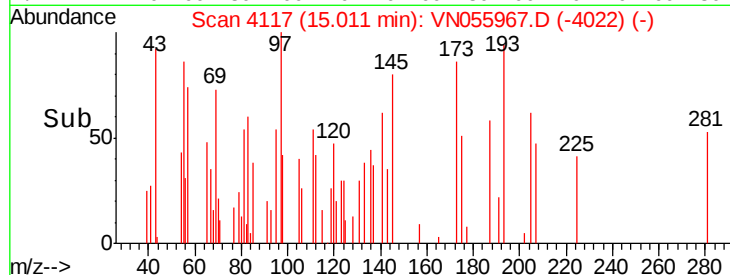
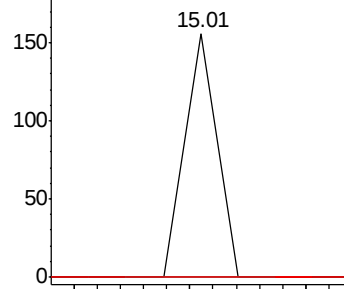
MSVOA_N

ClientSampled :

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: 0.383 ug/l

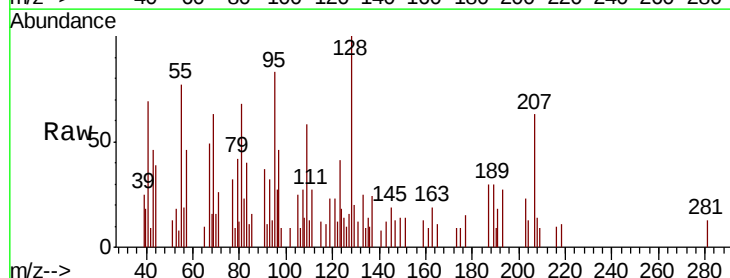
RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

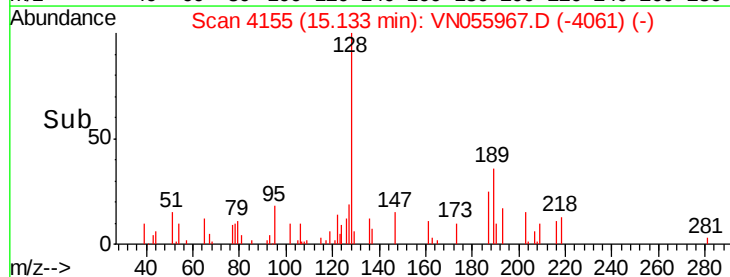
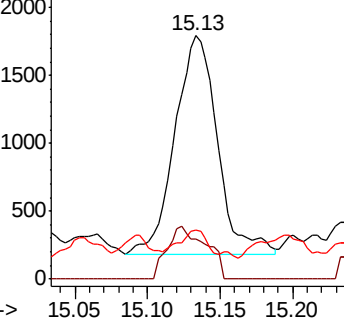
Lab File: VN055967.D

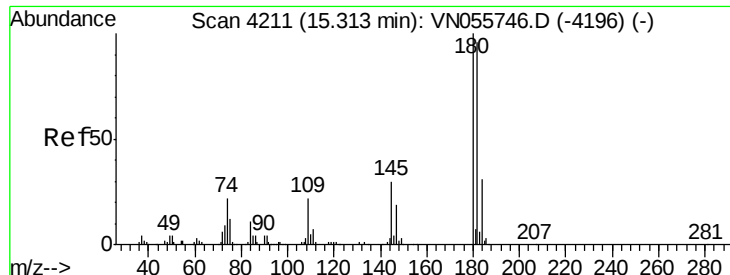
Acq: 3 Jun 2019 17:35

Tgt Ion:	128	Resp:	3294
Ion	Ratio	Lower	Upper
128	100		
127	21.9	10.3	15.5#
129	6.4	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: 0.279 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN055967.D
 Acq: 3 Jun 2019 17:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	56.5	47.9	143.7
145	0.0	14.9	44.7#

