

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055614.D
 Acq On : 17 May 2019 16:46
 Operator : JC/SP
 Sample : K2822-03
 Misc : 5.10µ/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:09:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	348616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	501856	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	423377	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	187516	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	168846	44.18	ug/l	0.00
Spiked Amount			Recovery	=	88.36%	
35) Dibromofluoromethane	7.59	113	151797	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
50) Toluene-d8	10.09	98	582215	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
62) 4-Bromofluorobenzene	12.40	95	191107	45.91	ug/l	0.00
Spiked Amount			Recovery	=	91.82%	

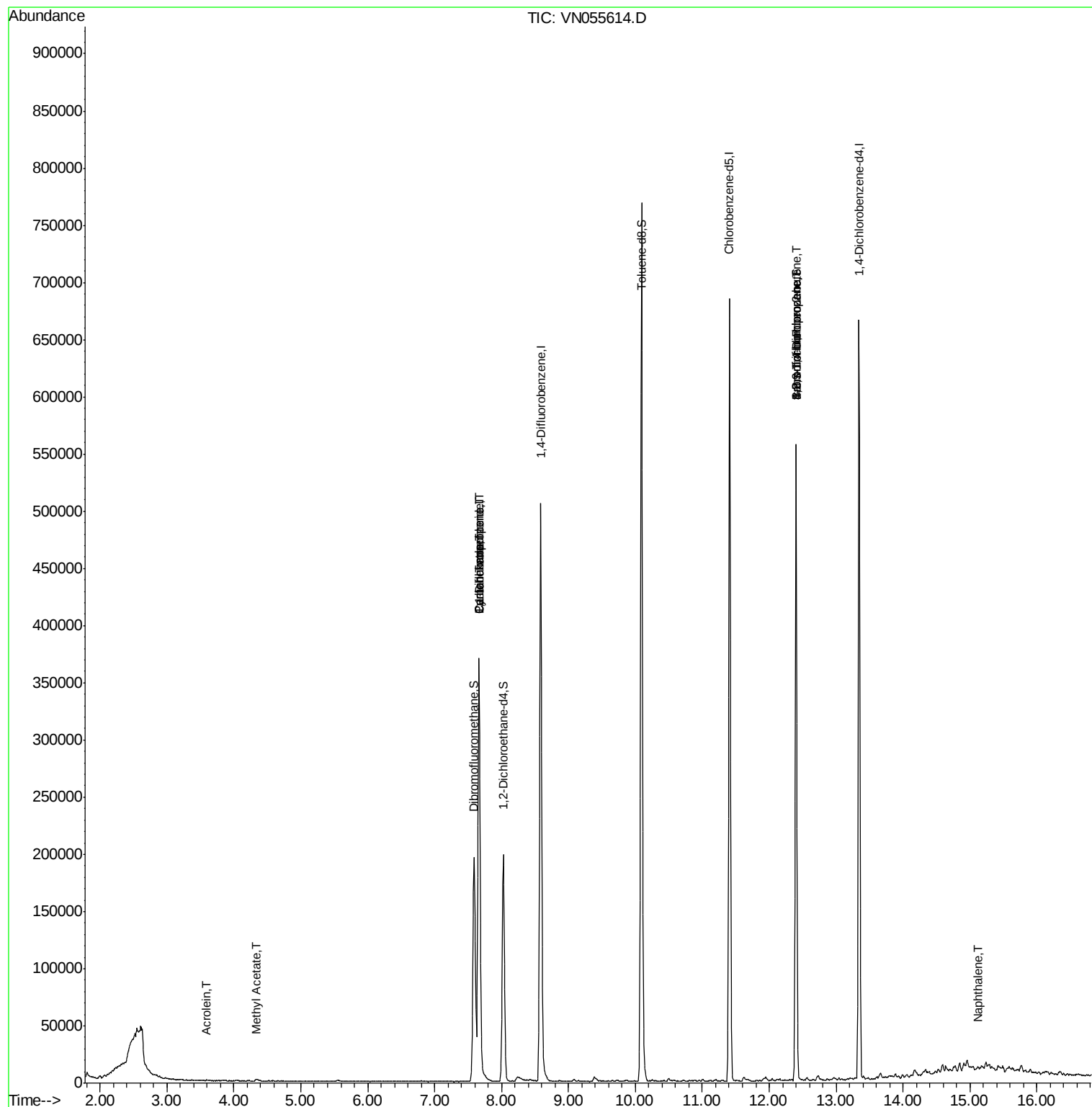
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.59	56	138	1.740	ug/l #	64
18) Methyl Acetate	4.33	43	3739	1.118	ug/l #	76
31) Cyclohexane	7.66	56	6088	1.074	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21233	4.746	ug/l #	48
38) Carbon Tetrachloride	7.66	117	29334	6.135	ug/l #	15
71) Bromoform	12.40	173	1284	0.440	ug/l #	1
73) Isopropylbenzene	12.25	105	422	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	12.56	83	257	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	88258	23.066	ug/l #	100
79) 2-Chlorotoluene	12.67	91	253	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	640	Below Cal	#	50
81) trans-1,4-Dichloro-2-buten	12.40	75	88258	59.294	ug/l #	17
83) tert-Butylbenzene	12.99	119	464	Below Cal	#	83
84) 1,2,4-Trimethylbenzene	13.04	105	865	Below Cal		70
85) sec-Butylbenzene	13.17	105	776	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	702	Below Cal		84
90) Hexachloroethane	13.99	117	793	Below Cal	#	3
95) Naphthalene	15.13	128	1803	1.943	ug/l #	74

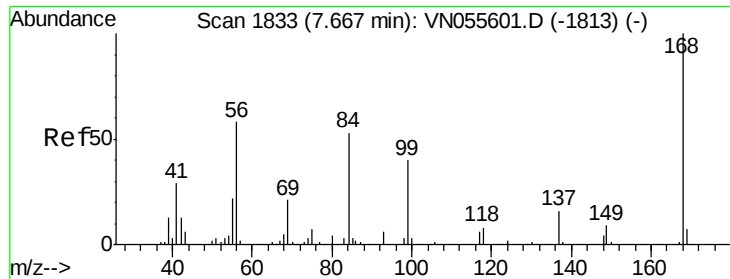
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 17 23:54:12 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: VN055614.D

Acq: 17 May 2019 16:46

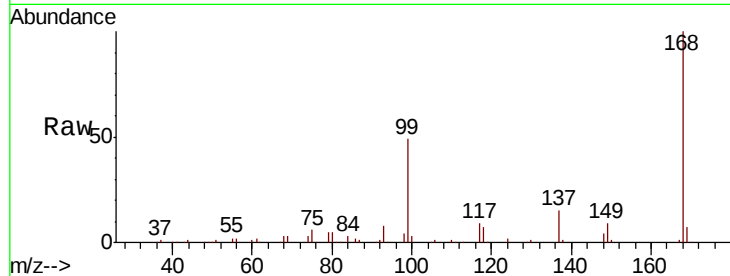
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 348616

Ion Ratio Lower Upper

168 100

99 48.7 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

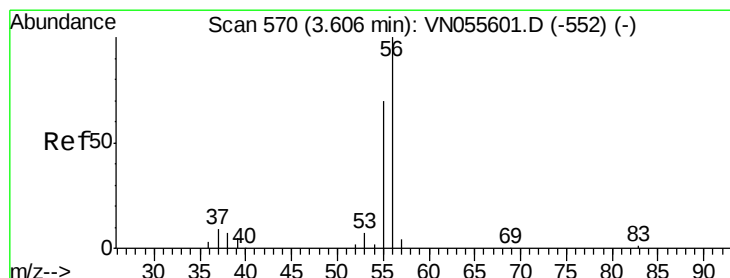
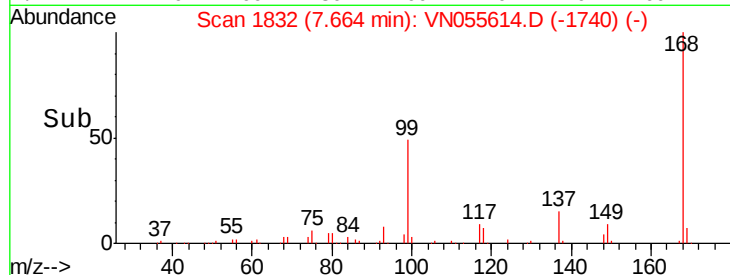
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 1.740 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN055614.D

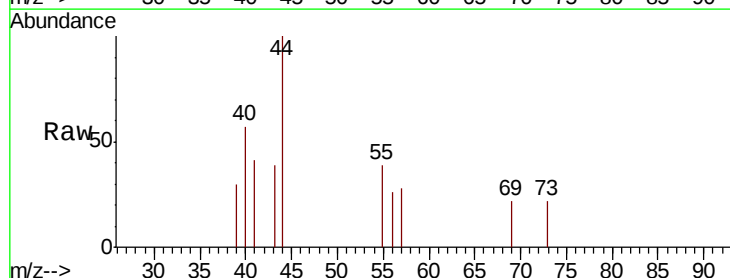
Acq: 17 May 2019 16:46

Tgt Ion: 56 Resp: 138

Ion Ratio Lower Upper

56 100

55 40.6 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.59

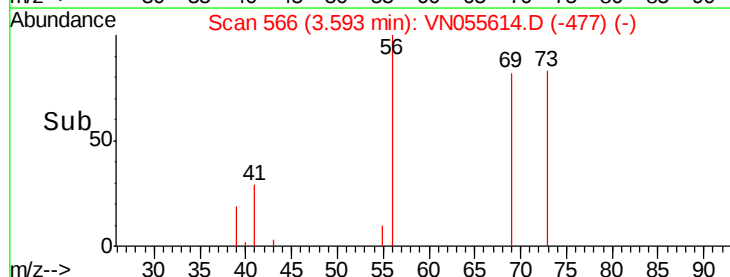
300

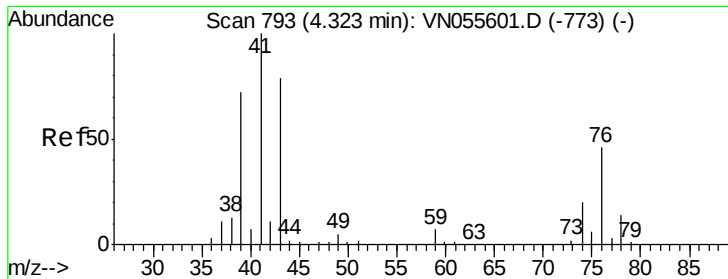
200

100

0

Time-->

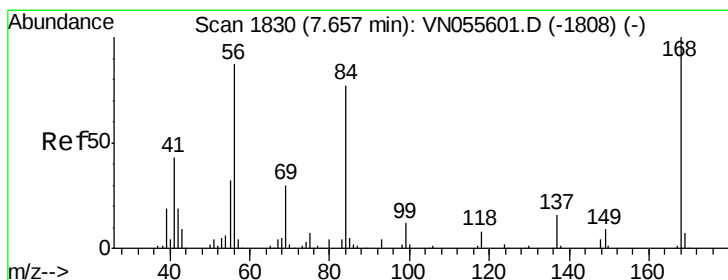
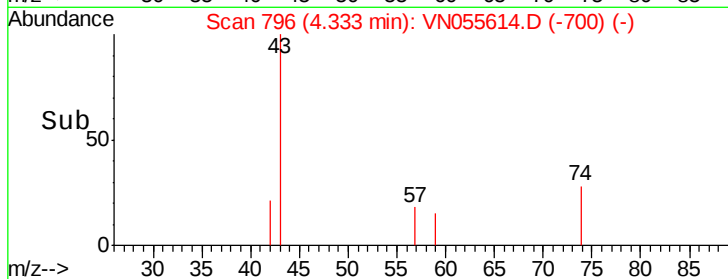
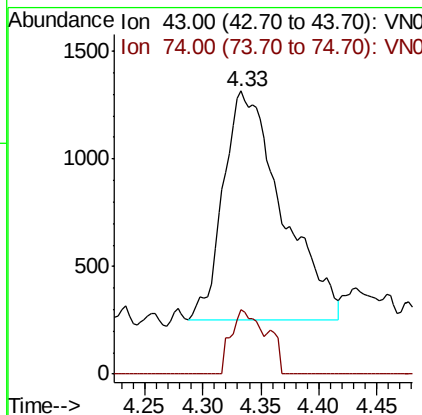
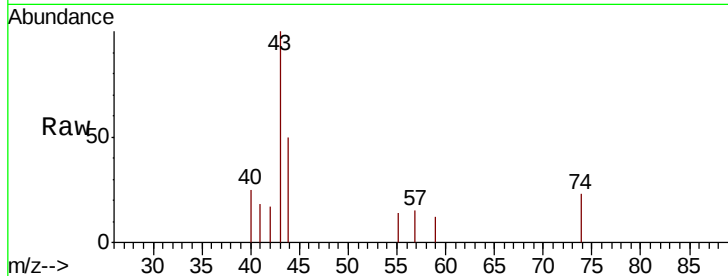




#18
Methvl Acetate
Concen: 1.118 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055614.D
Acq: 17 May 2019 16:46

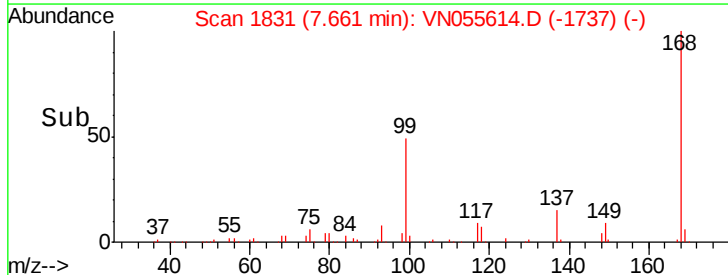
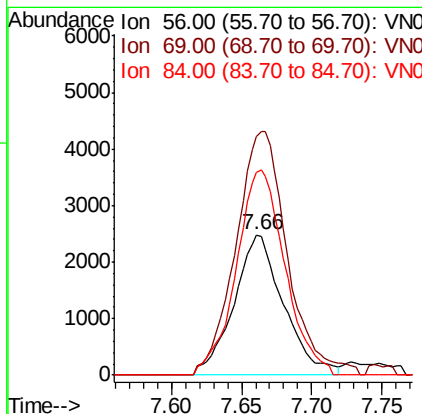
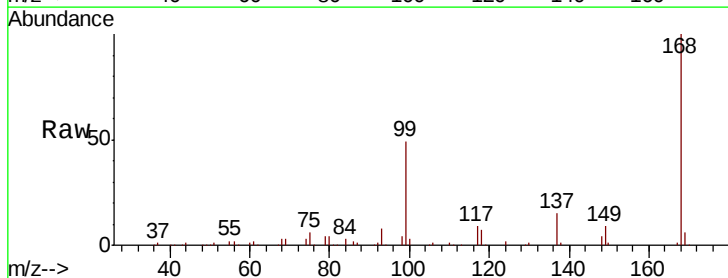
Instrument :
MSVOA_N
ClientSampled :

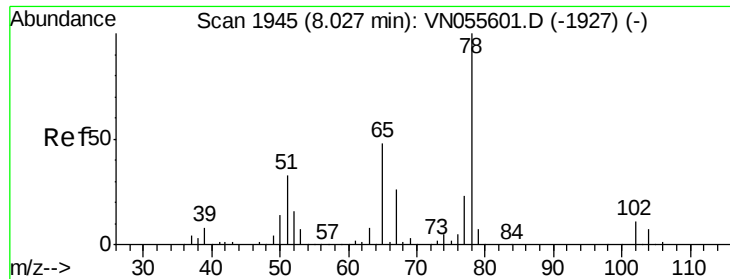
Tot Ion: 43 Resp: 3739
Ion Ratio Lower Upper
43 100
74 13.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.074 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN055614.D
Acq: 17 May 2019 16:46

Tgt Ion: 56 Resp: 6088
Ion Ratio Lower Upper
56 100
69 169.5 27.2 40.8#
84 144.6 71.3 106.9#

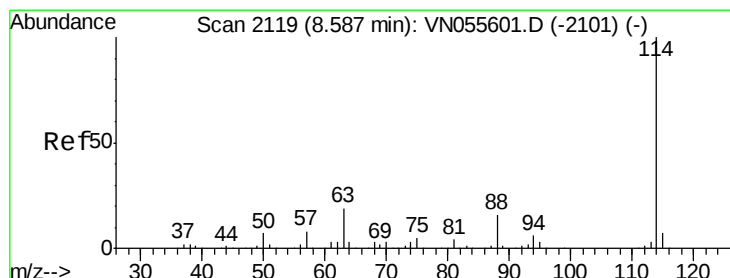
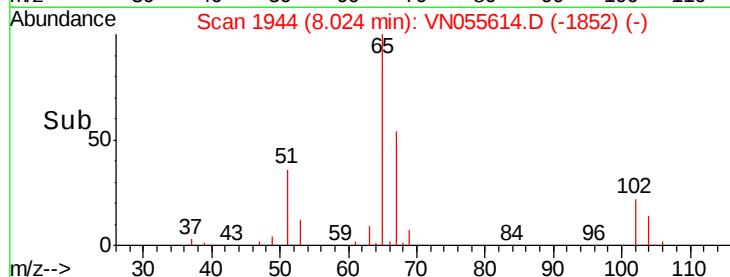
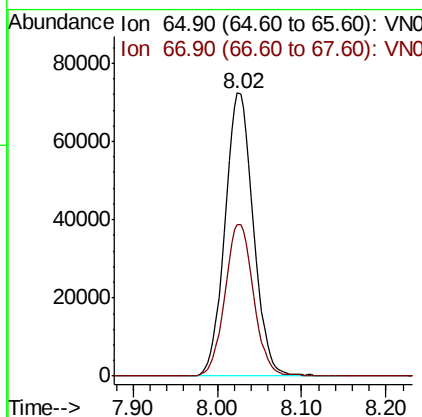
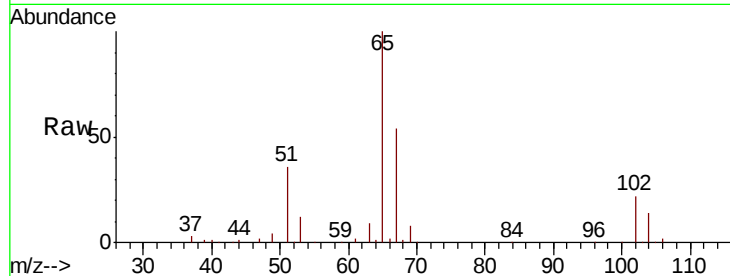




#33
 1,2-Dichloroethane-d4
 Concen: 44.183 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN055614.D
 Acq: 17 May 2019 16:46

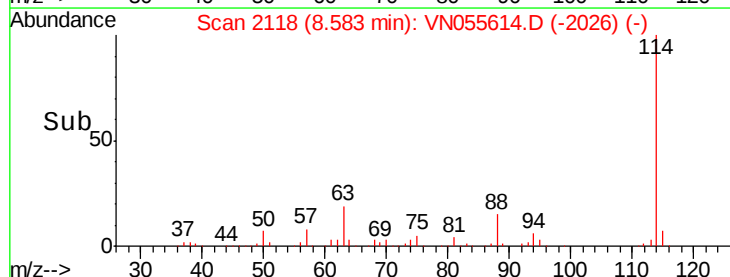
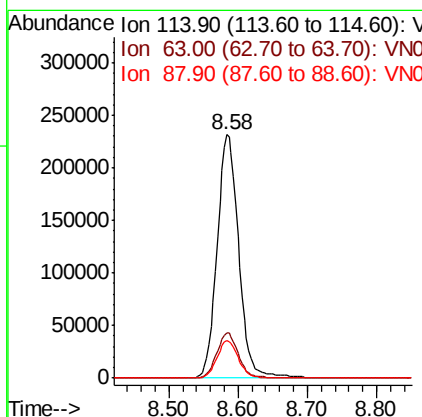
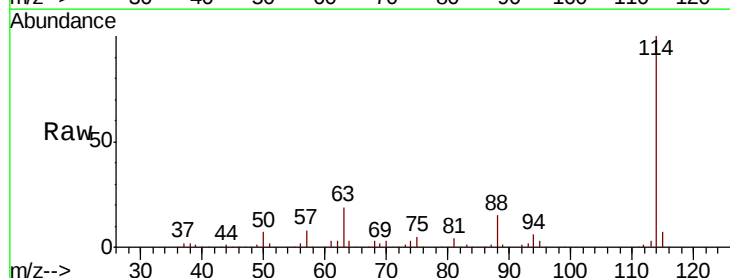
Instrument :
 MSVOA_N
 ClientSampled :

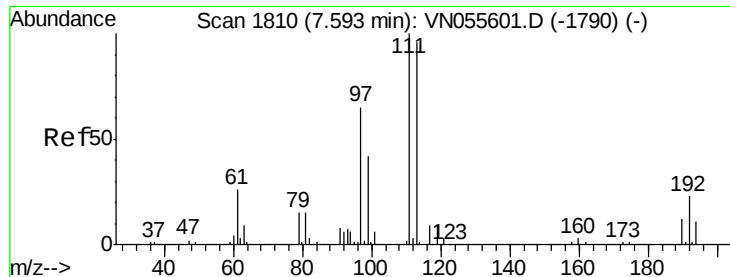
Tot Ion: 65 Resp: 168846
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055614.D
 Acq: 17 May 2019 16:46

Tgt Ion: 114 Resp: 501856
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 38.2
 88 15.3 0.0 31.0

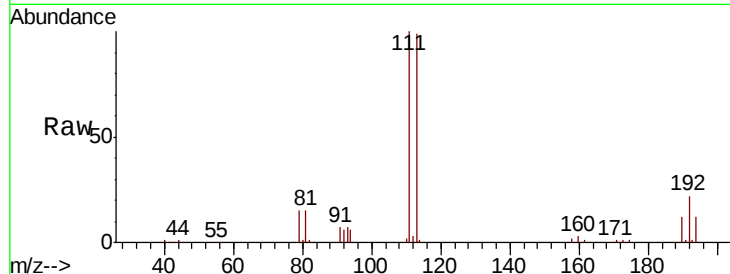




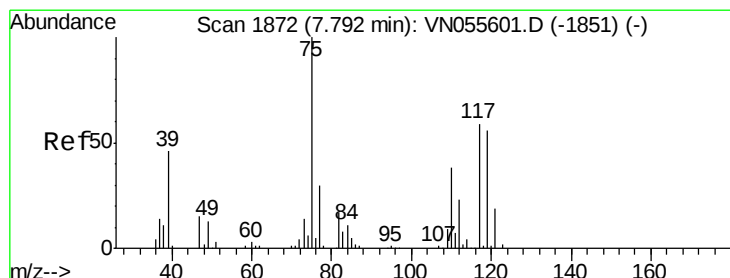
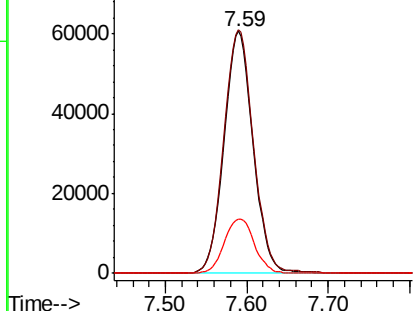
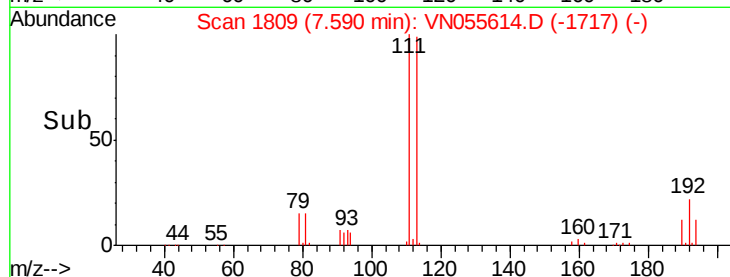
#35
 Dibromofluoromethane
 Concen: 47.615 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055614.D
 Acq: 17 May 2019 16:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.5	123.7
192	23.4	18.7	28.1

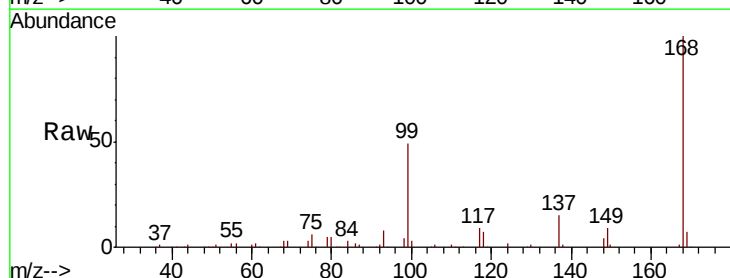


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

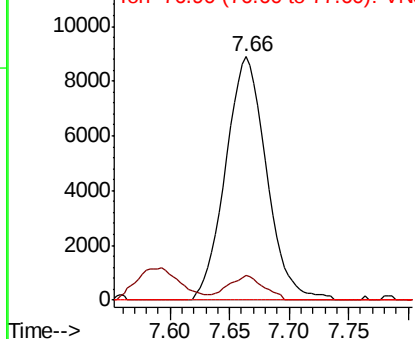
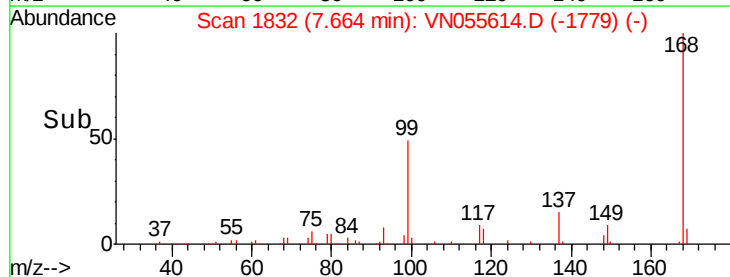


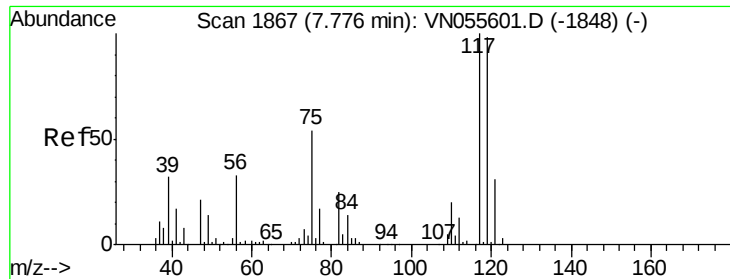
#36
 1,1-Dichloropropene
 Concen: 4.746 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055614.D
 Acq: 17 May 2019 16:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.6	55.6#
77	0.0	24.9	37.3#



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





#38

Carbon Tetrachloride

Concen: 6.135 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

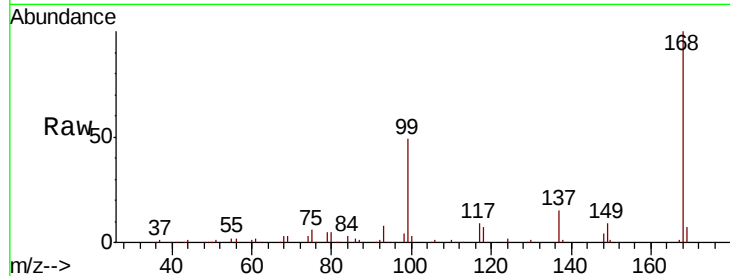
Tot Ion:117 Resp: 29334

Ion Ratio Lower Upper

117 100

119 4.7 77.8 116.8#

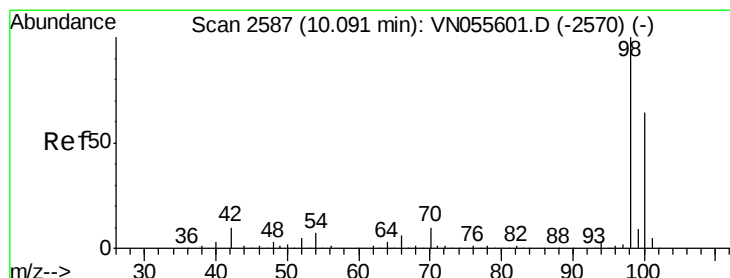
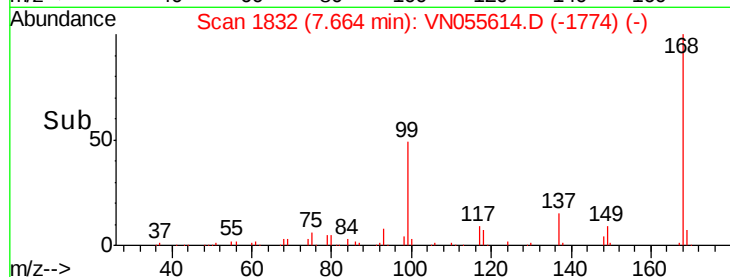
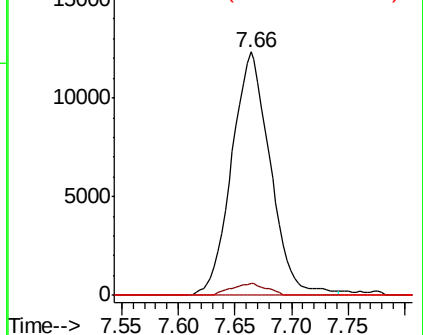
121 0.0 24.6 37.0#



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



#50

Toluene-d8

Concen: 48.299 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055614.D

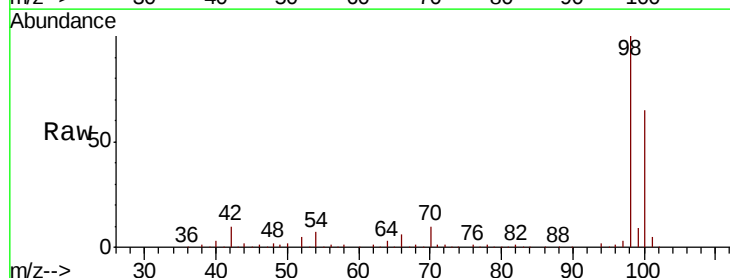
Acq: 17 May 2019 16:46

Tgt Ion: 98 Resp: 582215

Ion Ratio Lower Upper

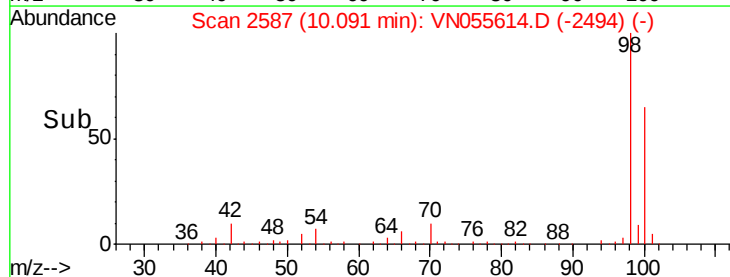
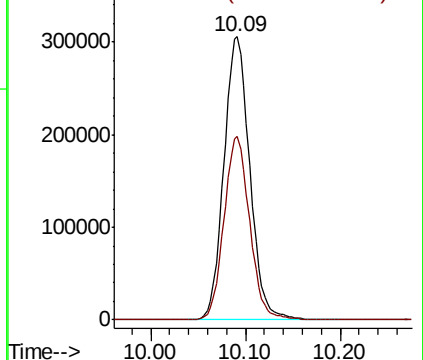
98 100

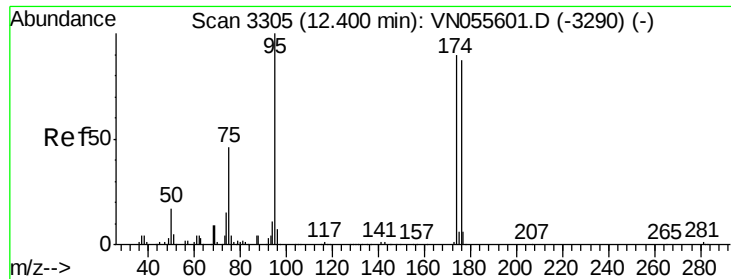
100 64.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 45.911 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

Instrument :

MSVOA_N

ClientSampleId :

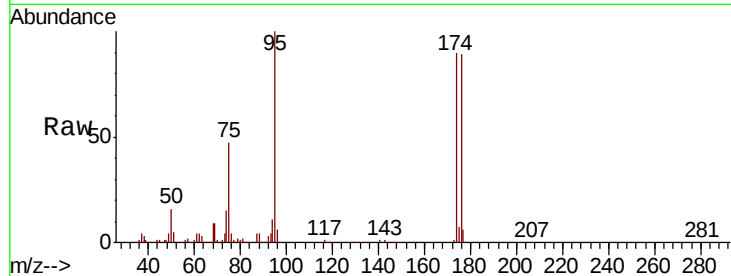
Tot Ion: 95 Resp: 191107

Ion Ratio Lower Upper

95 100

174 90.9 0.0 180.6

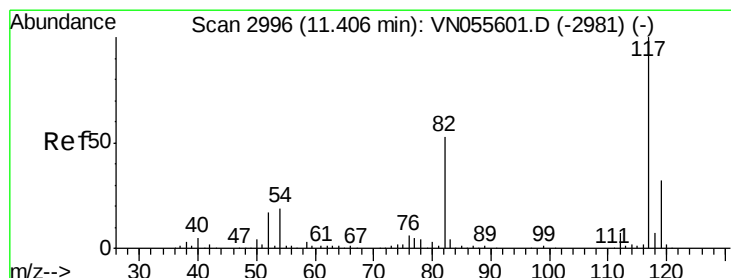
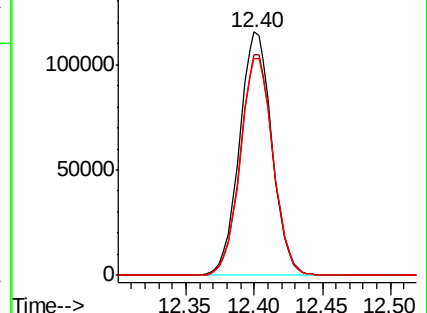
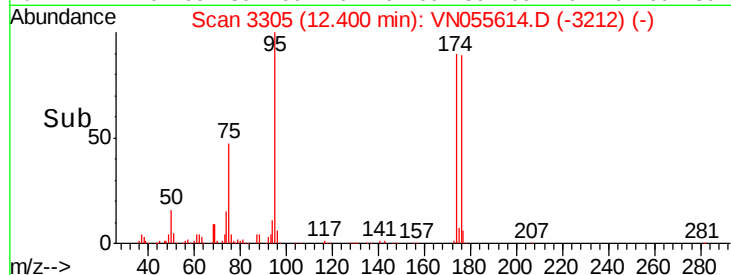
176 89.5 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN055614.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN055614.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN055614.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

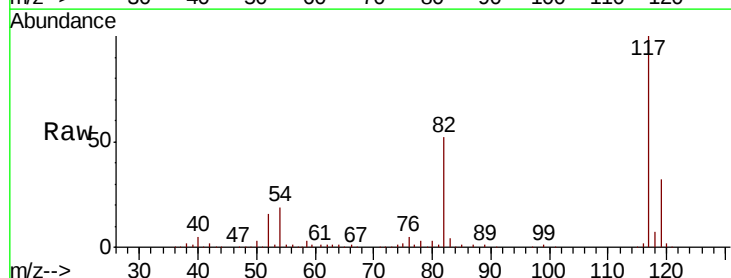
Tgt Ion: 117 Resp: 423377

Ion Ratio Lower Upper

117 100

82 52.2 42.3 63.5

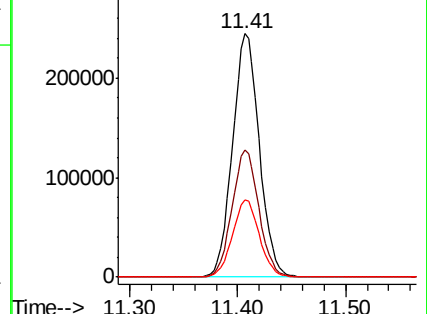
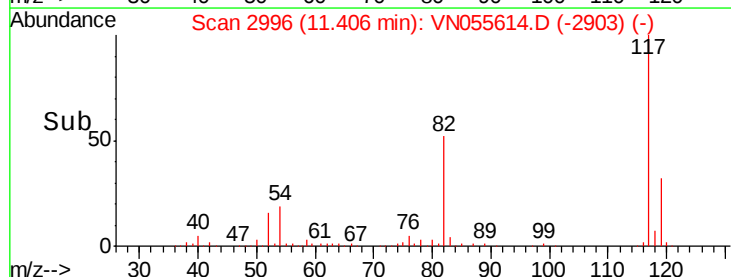
119 31.6 25.4 38.2

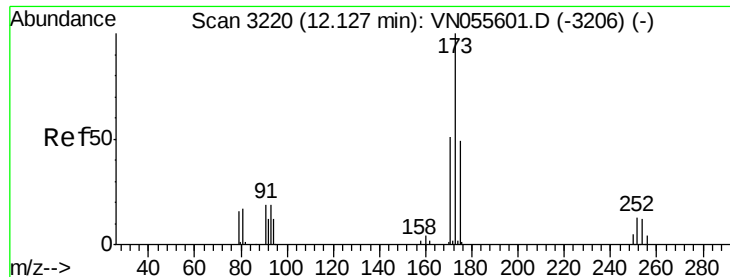


Abundance Ion 116.90 (116.60 to 117.60): VN055614.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055614.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055614.D (-2903) (-)





#71

Bromoform

Concen: 0.440 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

Instrument :

MSVOA_N

ClientSampled :

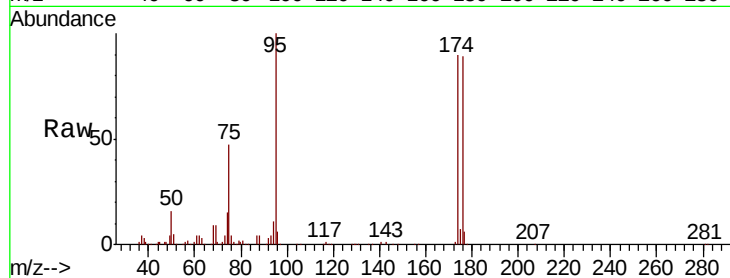
Tot Ion:173 Resp: 1284

Ion Ratio Lower Upper

173 100

175 884.2 24.3 72.9#

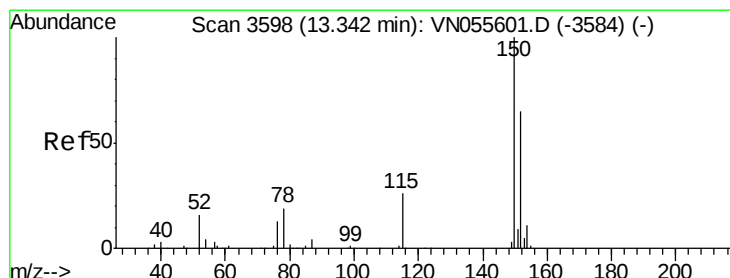
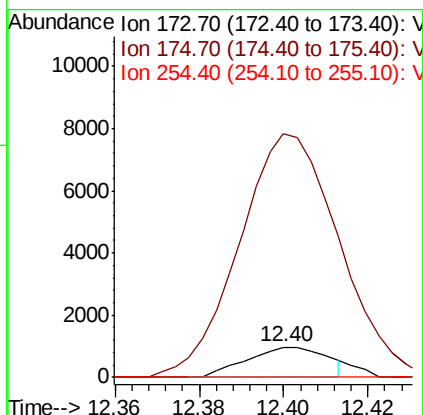
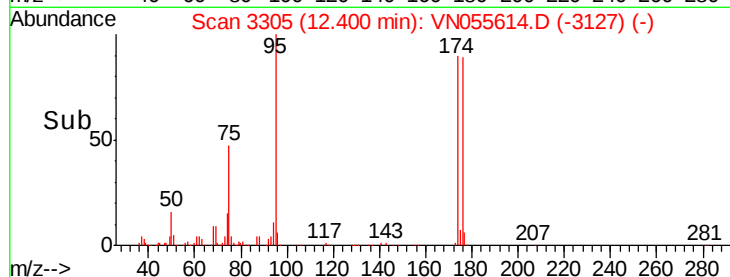
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

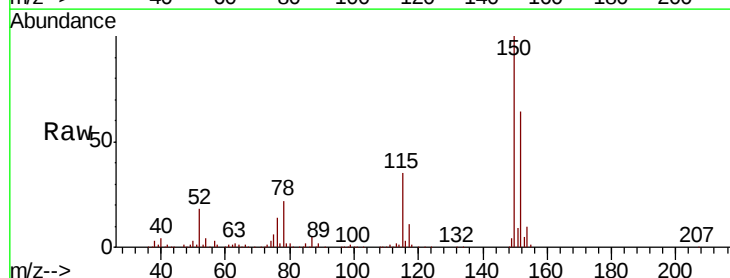
Tgt Ion:152 Resp: 187516

Ion Ratio Lower Upper

152 100

115 55.6 28.1 84.2

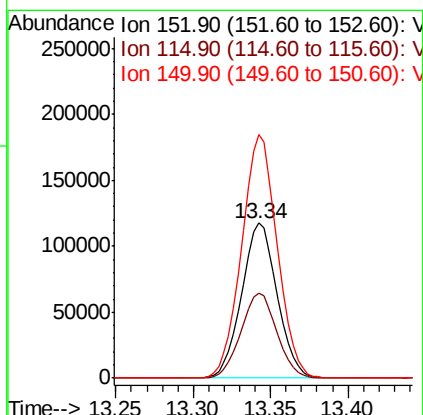
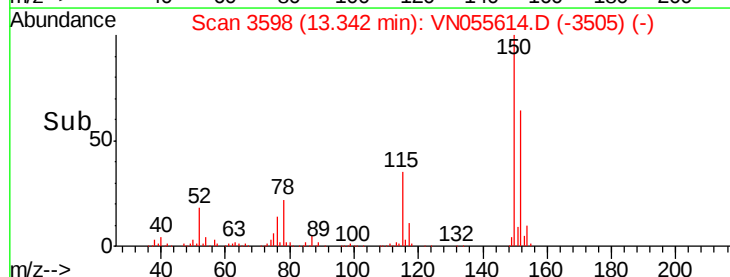
150 157.4 0.0 348.0

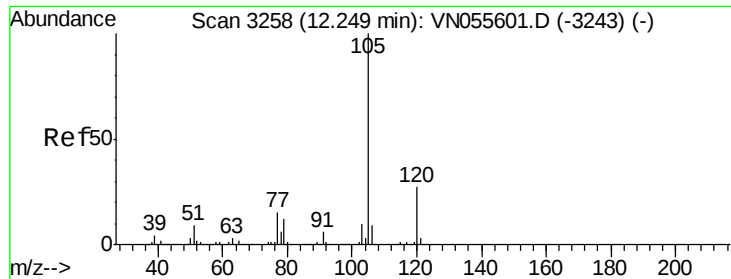


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN055614.D

Acq: 17 May 2019 16:46

Instrument :

MSVOA_N

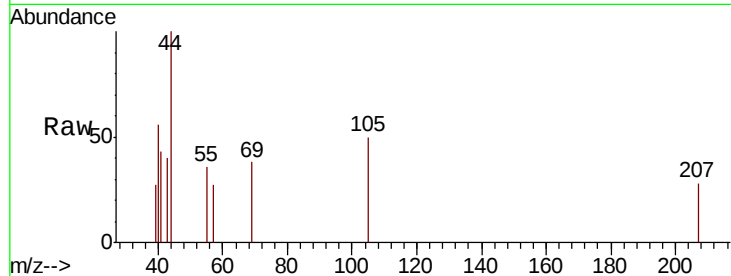
ClientSampled :

Tot Ion: 105.00 Resp: 422

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

300

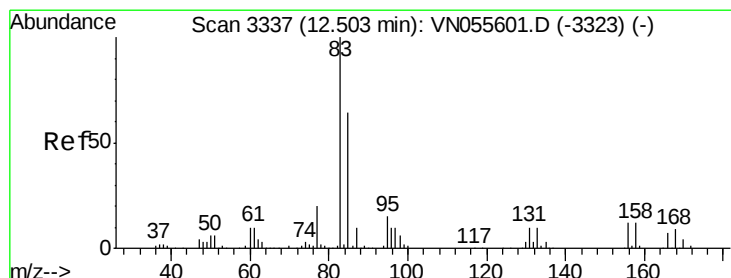
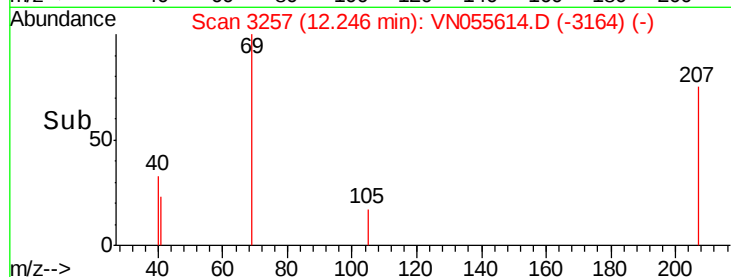
200

100

0

Time-->

12.22 12.24 12.26 12.28



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.56 min Scan# 3356

Delta R.T. 0.06 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

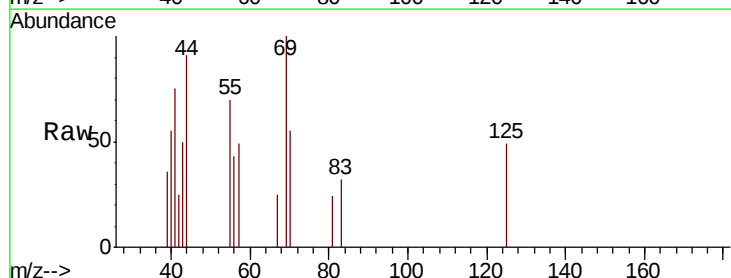
Tgt Ion: 83 Resp: 257

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

85 0.0 32.0 96.2#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO

250

200

150

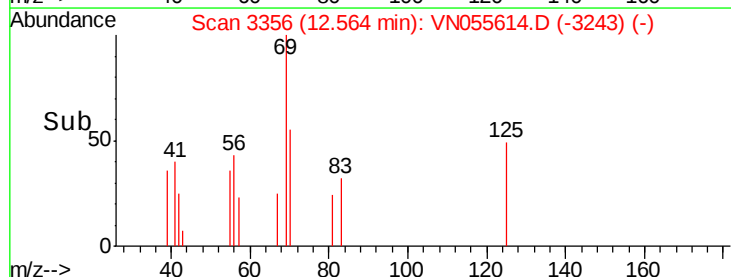
100

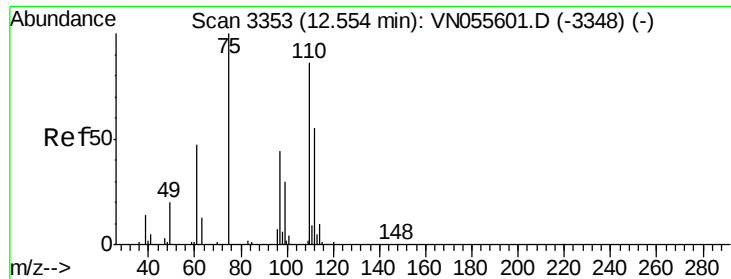
50

0

Time-->

12.54 12.56 12.58





#76

1,2,3-Trichloropropane

Concen: 23.066 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

Instrument :

MSVOA_N

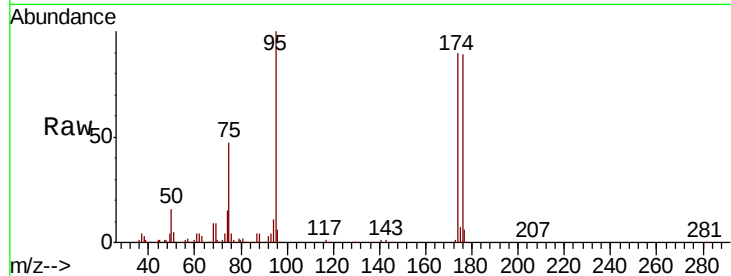
ClientSampled :

Tot Ion: 75 Resp: 88258

Ion Ratio Lower Upper

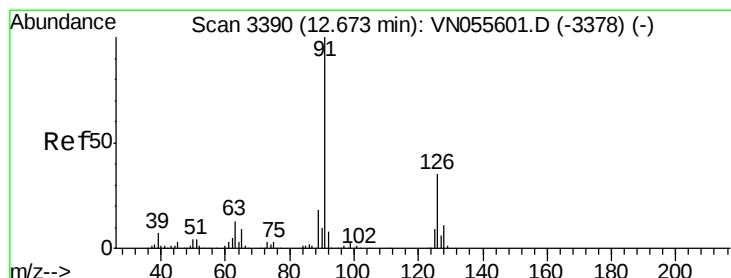
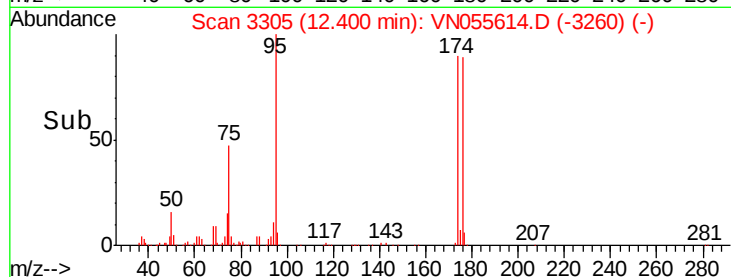
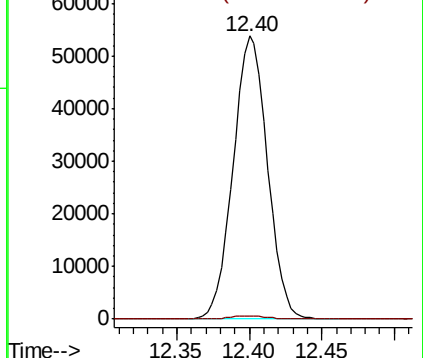
75 100

77 1.2 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: 12.67 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VN055614.D

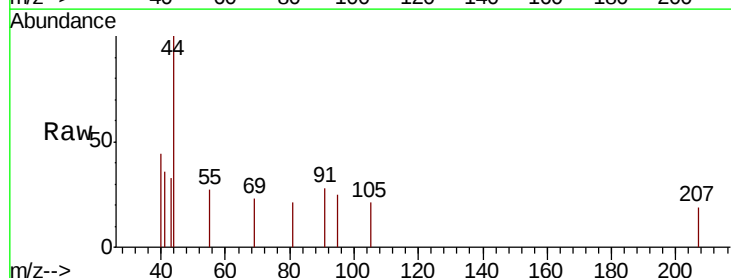
Acq: 17 May 2019 16:46

Tgt Ion: 91 Resp: 253

Ion Ratio Lower Upper

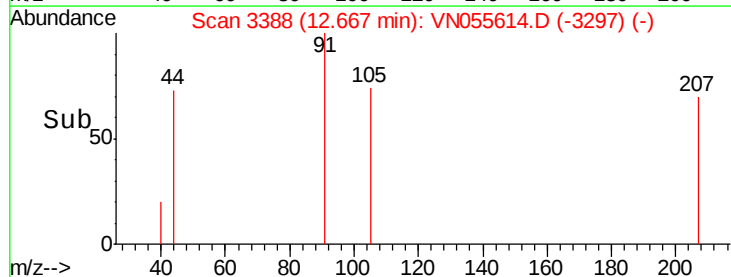
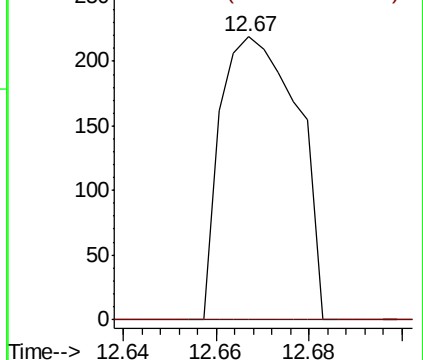
91 100

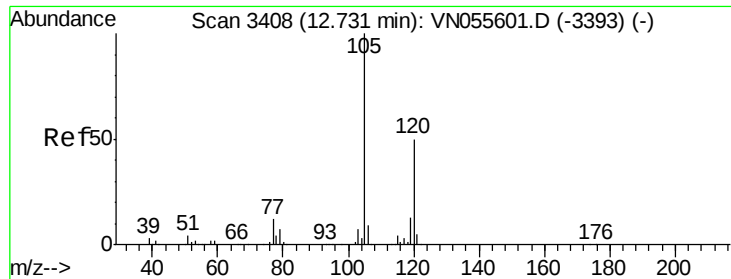
126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

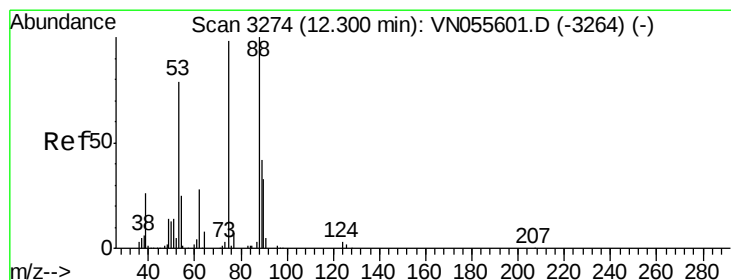
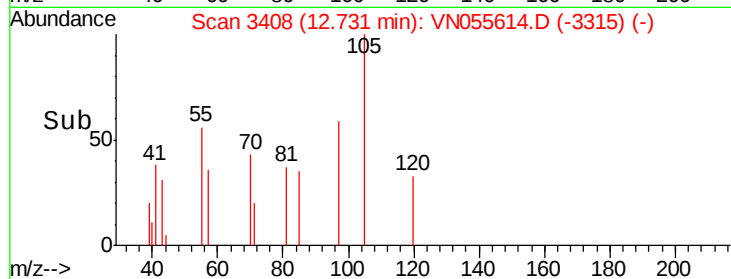
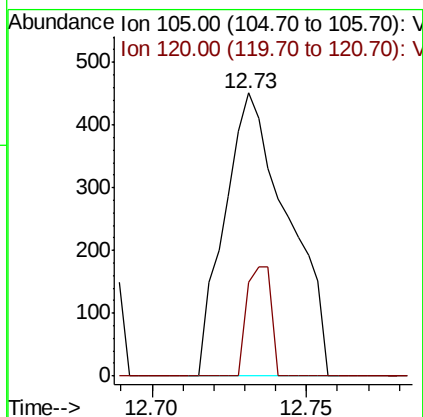
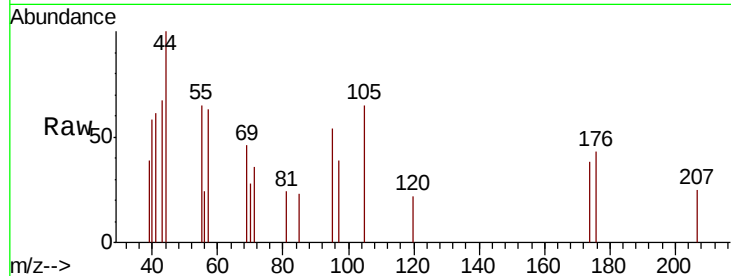




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055614.D
 Acq: 17 May 2019 16:46

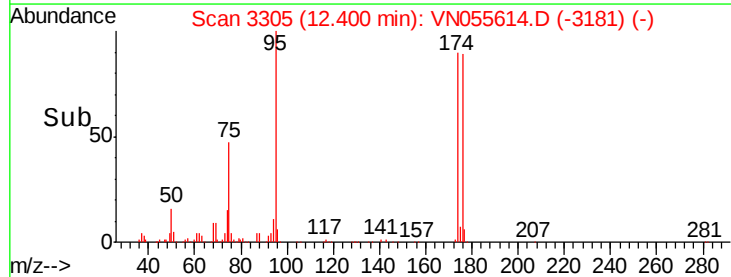
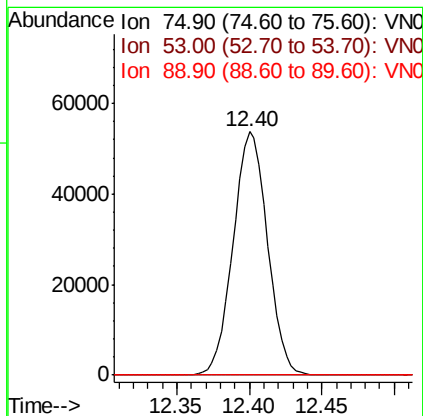
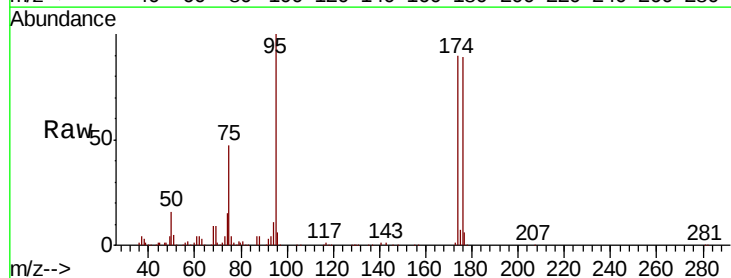
Instrument :
 MSVOA_N
 ClientSampleId :

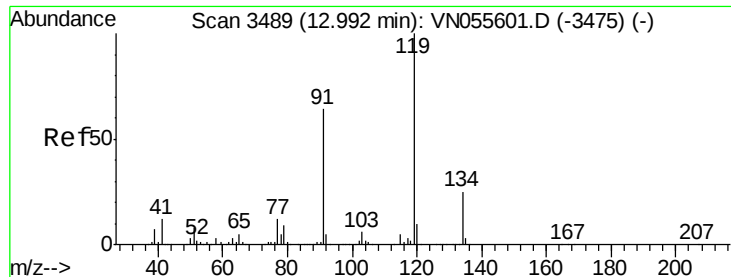
Tot Ion: 105 Resp: 640
 Ion Ratio Lower Upper
 105 100
 120 15.0 24.6 74.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.294 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055614.D
 Acq: 17 May 2019 16:46

Tgt Ion: 75 Resp: 88258
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.1 97.7#
 89 0.0 36.4 54.6#





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

Instrument :

MSVOA_N

ClientSampled :

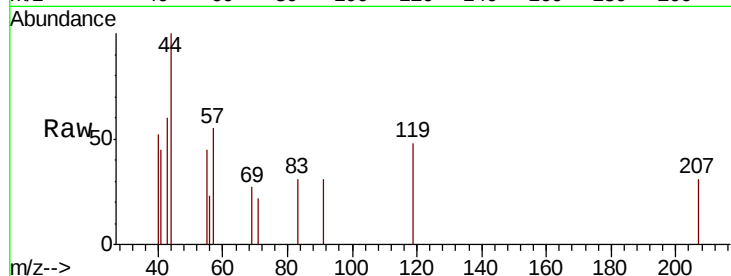
Tot Ion:119 Resp: 464

Ion Ratio Lower Upper

119 100

91 60.3 31.3 93.8

134 0.0 13.2 39.6#

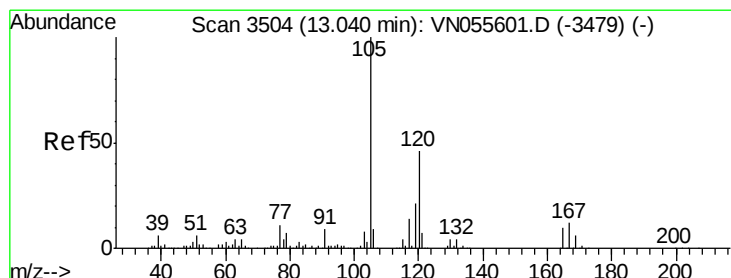
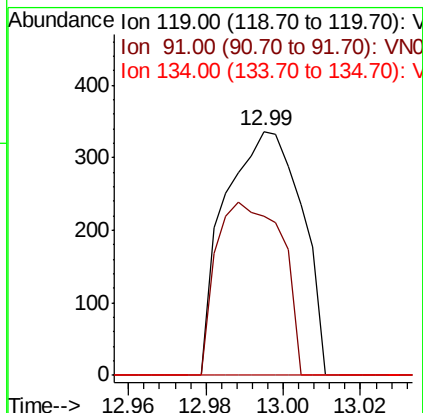
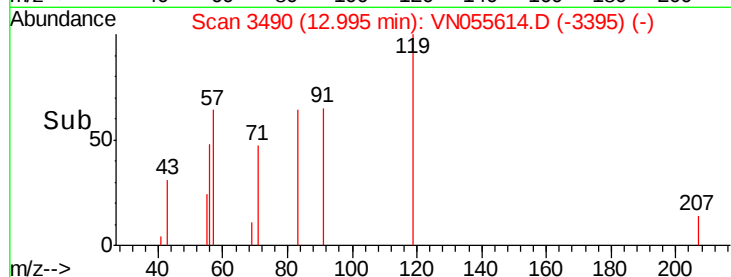


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

Time--> 12.96 12.98 13.00 13.02



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055614.D

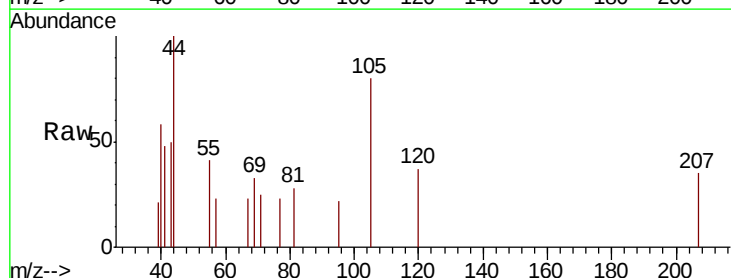
Acq: 17 May 2019 16:46

Tgt Ion:105 Resp: 865

Ion Ratio Lower Upper

105 100

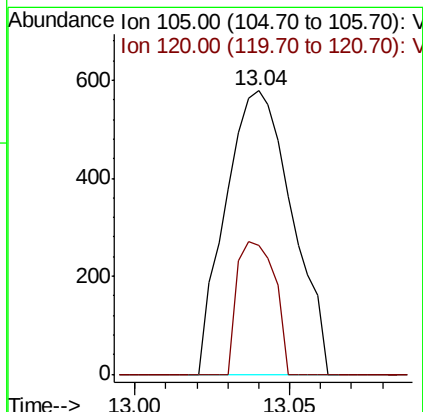
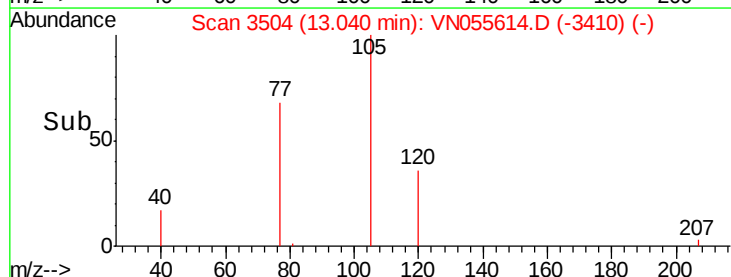
120 26.4 23.1 69.2

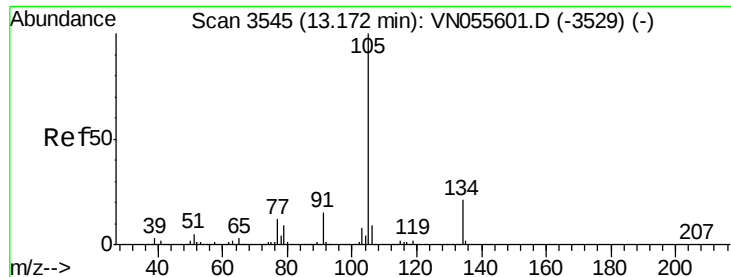


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Time--> 13.00 13.05





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

Instrument :

MSVOA_N

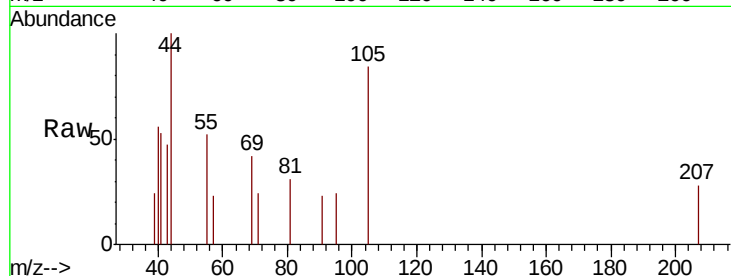
ClientSampleId :

Tot Ion:105 Resp: 776

Ion Ratio Lower Upper

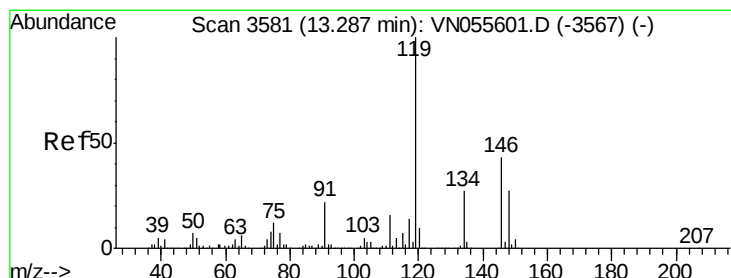
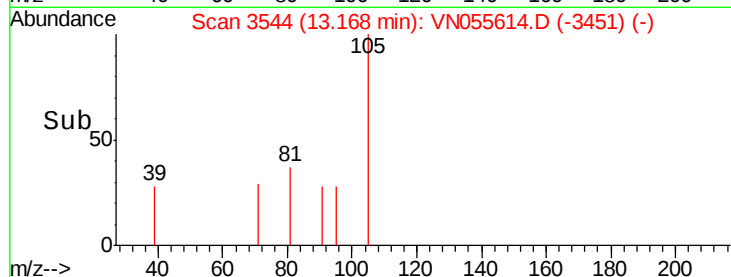
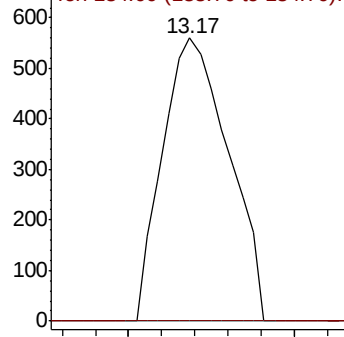
105 100

134 0.0 10.3 30.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

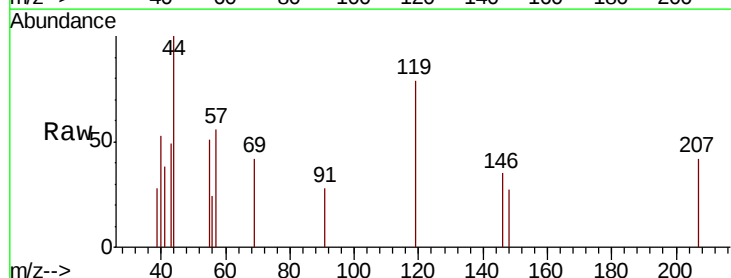
Tgt Ion:119 Resp: 702

Ion Ratio Lower Upper

119 100

134 14.1 13.4 40.2

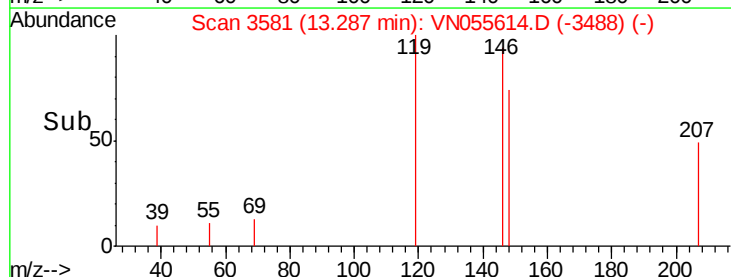
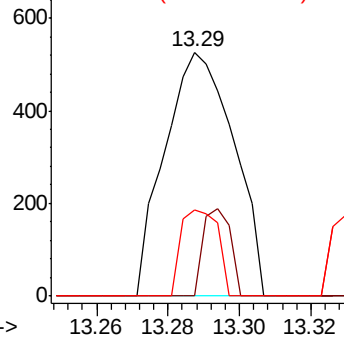
91 18.9 11.0 33.0

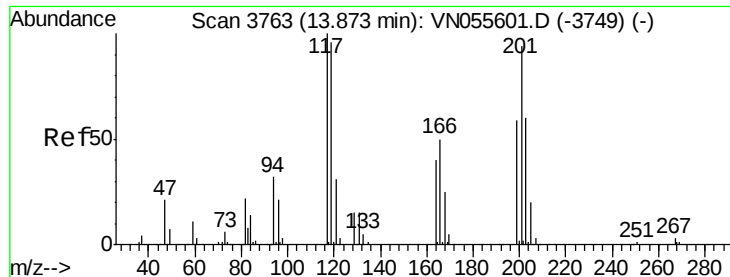


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#90

Hexachloroethane

Concen: Below Cal

RT: 13.99 min Scan# 3801

Delta R.T. 0.12 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

Instrument :

MSVOA_N

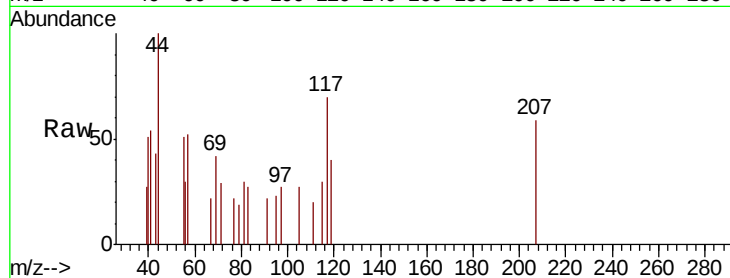
ClientSampleId :

Tot Ion:117 Resp: 793

Ion Ratio Lower Upper

117 100

201 0.0 47.1 141.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.99

600

500

400

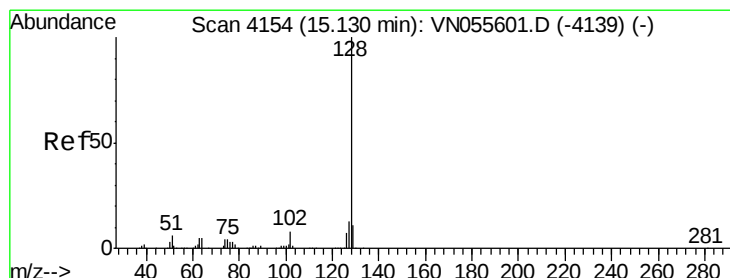
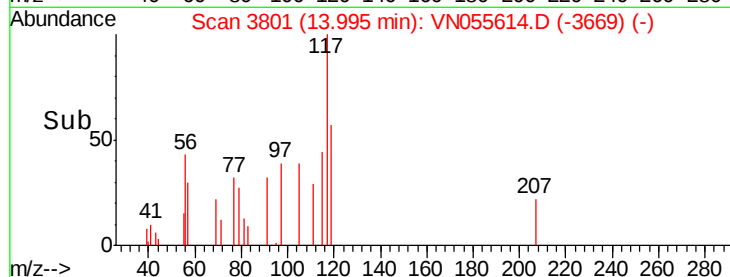
300

200

100

0

Time--> 13.95 14.00



#95

Naphthalene

Concen: 1.943 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055614.D

Acq: 17 May 2019 16:46

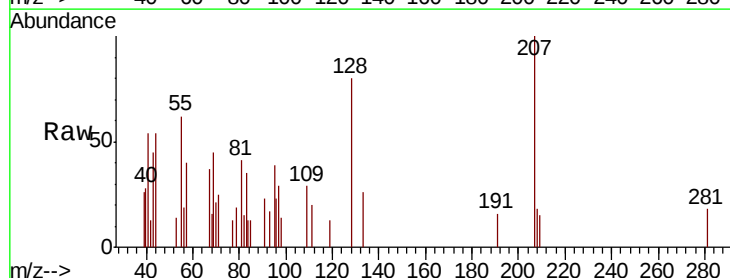
Tgt Ion:128 Resp: 1803

Ion Ratio Lower Upper

128 100

127 3.3 10.2 15.4#

129 0.0 8.6 12.8#



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

1200

1000

800

600

400

200

0

Time--> 15.10 15.15

