

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055613.D
 Acq On : 17 May 2019 16:22
 Operator : JC/SP
 Sample : K2918-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:09:48 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	7.67	168	393679	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	564367	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	471490	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	181532	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	189268	43.86	ug/l	0.00
Spiked Amount			Recovery	=	87.72%	
35) Dibromofluoromethane	7.59	113	173625	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	10.09	98	652269	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
62) 4-Bromofluorobenzene	12.40	95	207572	44.34	ug/l	0.00
Spiked Amount			Recovery	=	88.68%	

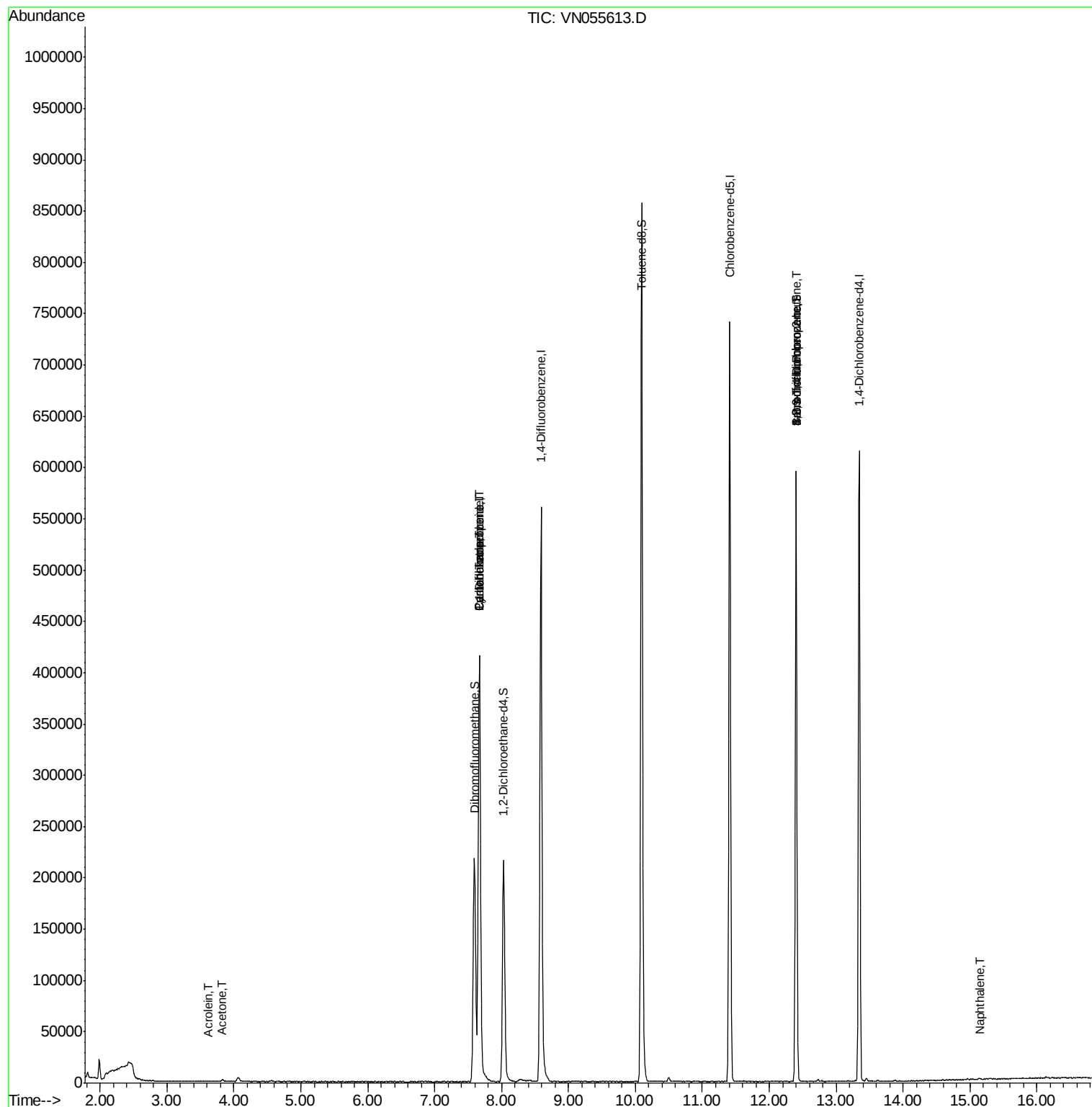
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	34	1.444	ug/l #	1
16) Acetone	3.82	43	3403	1.932	ug/l	98
31) Cyclohexane	7.67	56	6407	1.001	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	23988	4.767	ug/l #	49
38) Carbon Tetrachloride	7.67	117	32975	6.133	ug/l #	16
71) Bromoform	12.40	173	1352	0.416	ug/l #	1
73) Isopropylbenzene	12.25	105	363	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	96371	26.017	ug/l #	100
79) 2-Chlorotoluene	12.67	91	274	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	271	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	96371	66.878	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.04	105	432	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	485	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	549	Below Cal	#	51
95) Naphthalene	15.14	128	637	1.829	ug/l #	69

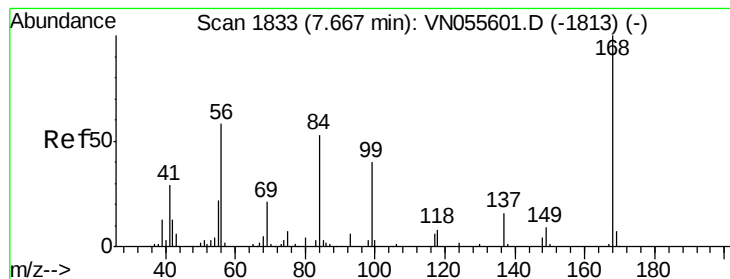
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
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: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

Instrument :

MSVOA_N

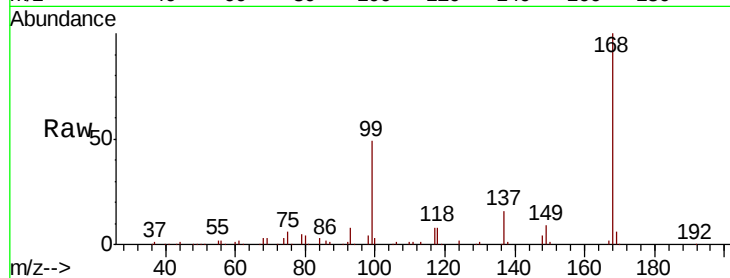
ClientSampleId :

Tot Ion:168 Resp: 393679

Ion Ratio Lower Upper

168 100

99 49.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

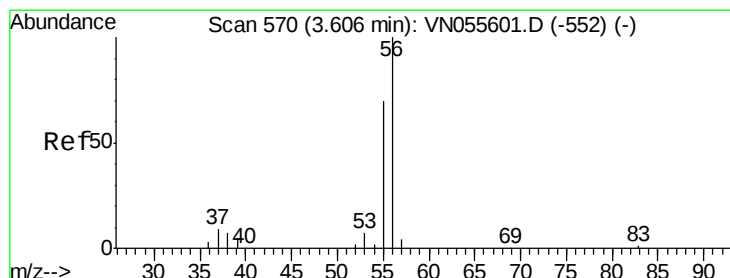
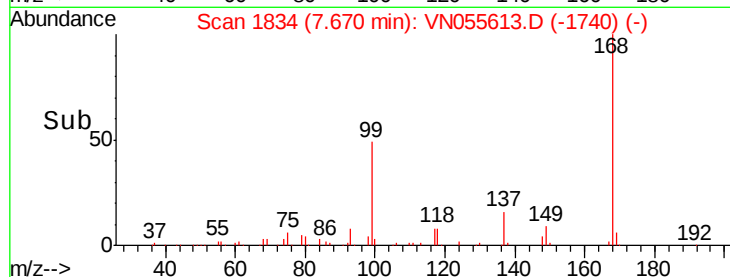
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 1.444 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN055613.D

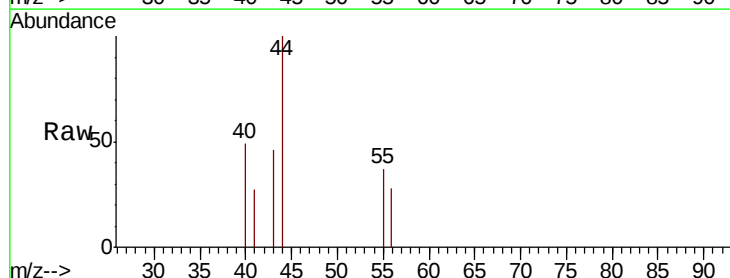
Acq: 17 May 2019 16:22

Tgt Ion: 56 Resp: 34

Ion Ratio Lower Upper

56 100

55 270.6 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.61

250

200

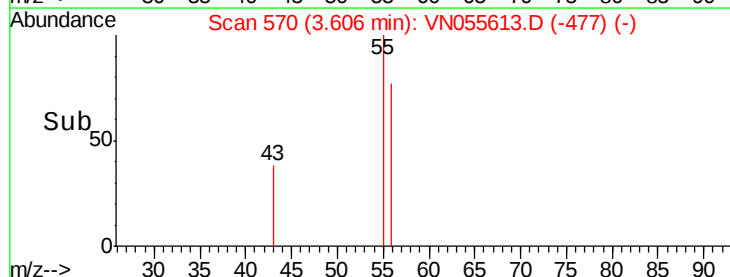
150

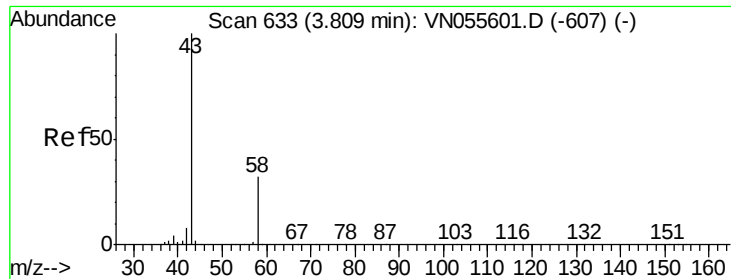
100

50

0

Time-->





#16

Acetone

Concen: 1.932 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

Instrument :

MSVOA_N

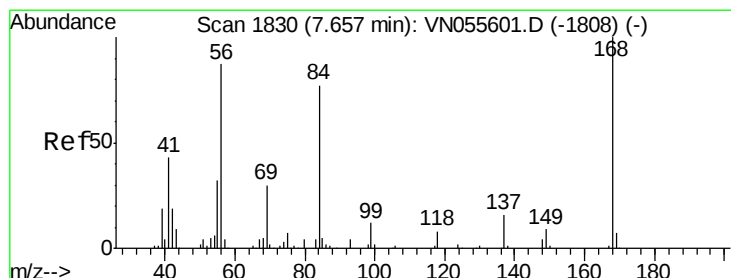
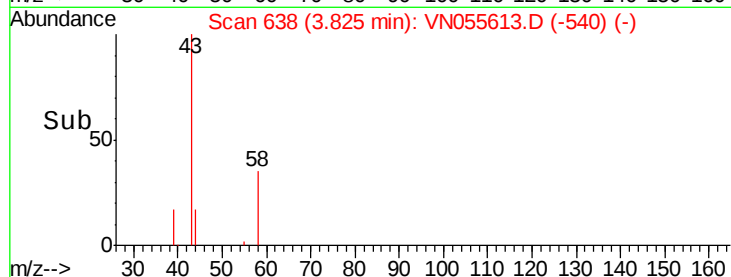
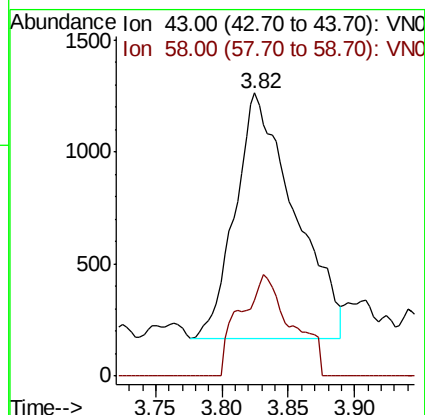
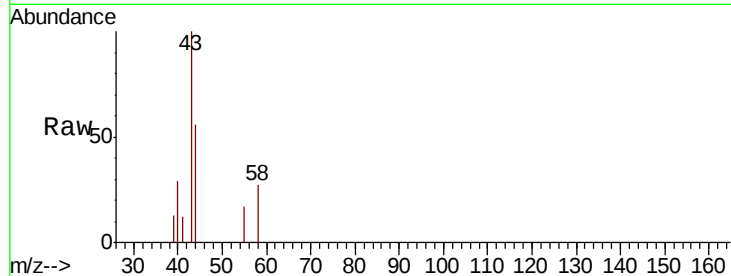
ClientSampled :

Tot Ion: 43 Resp: 3403

Ion Ratio Lower Upper

43 100

58 31.2 26.0 39.0



#31

Cyclohexane

Concen: 1.001 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

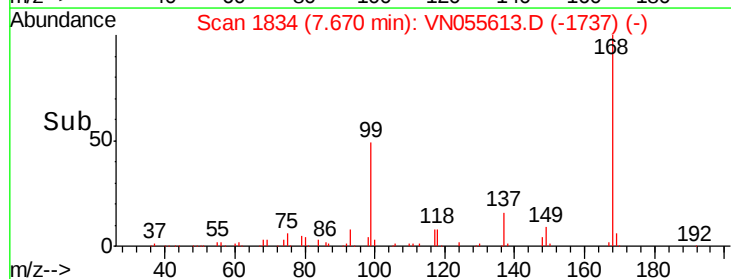
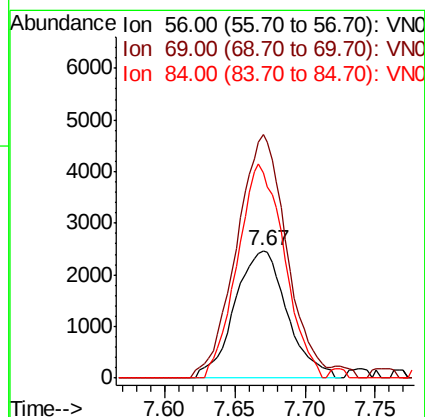
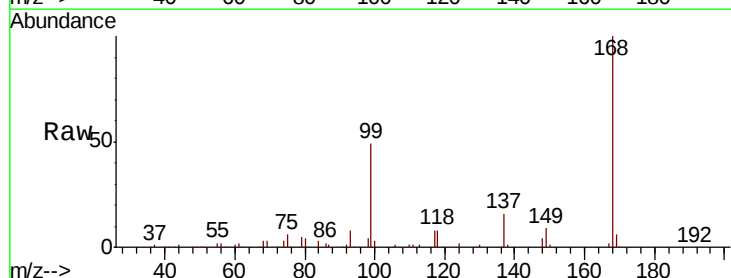
Tgt Ion: 56 Resp: 6407

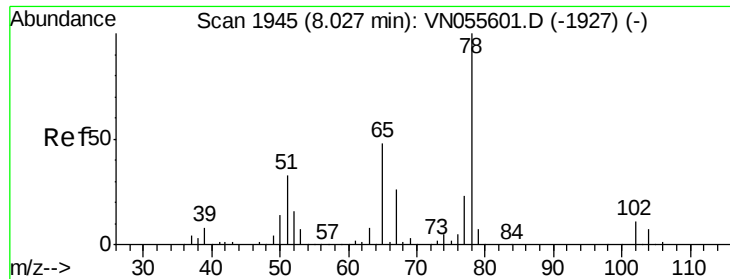
Ion Ratio Lower Upper

56 100

69 191.2 27.2 40.8#

84 160.6 71.3 106.9#

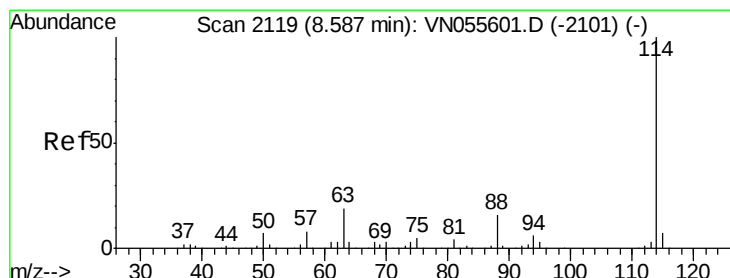
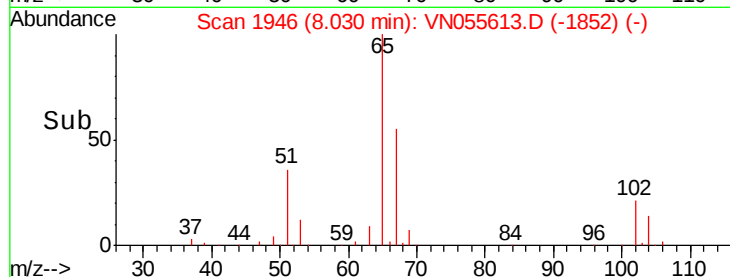
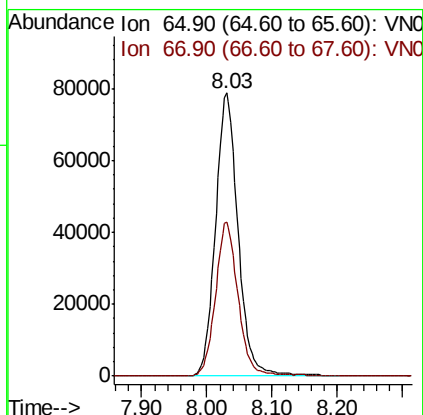
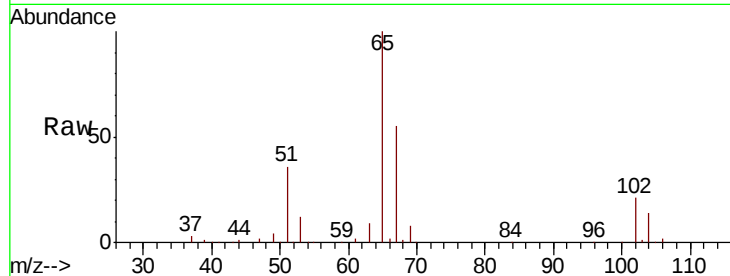




#33
 1,2-Dichloroethane-d4
 Concen: 43.858 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055613.D
 Acq: 17 May 2019 16:22

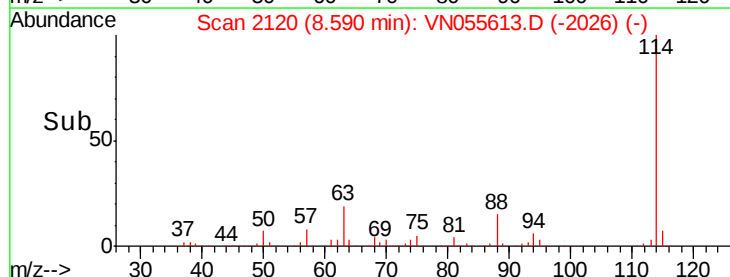
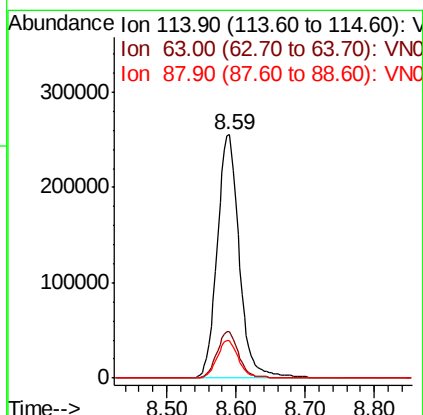
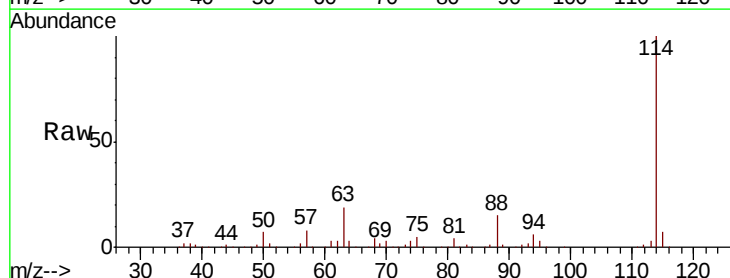
Instrument :
 MSVOA_N
 ClientSampled :

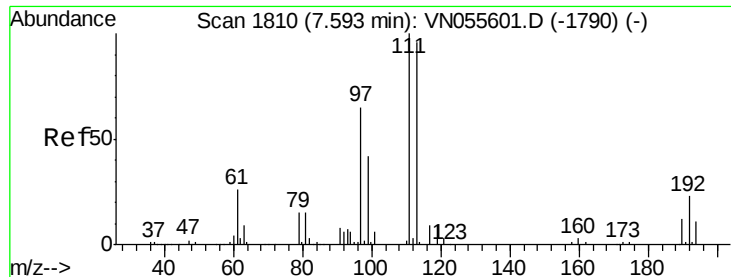
Tot Ion: 65 Resp: 189268
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN055613.D
 Acq: 17 May 2019 16:22

Tgt Ion: 114 Resp: 564367
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.2
 88 15.4 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.429 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

Instrument :
MSVOA_N
ClientSampleId :

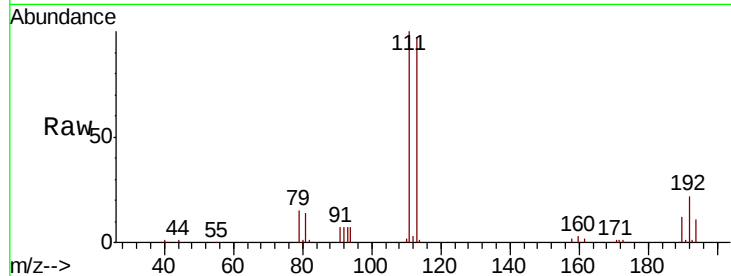
Tot Ion:113 Resp: 173625

Ion Ratio Lower Upper

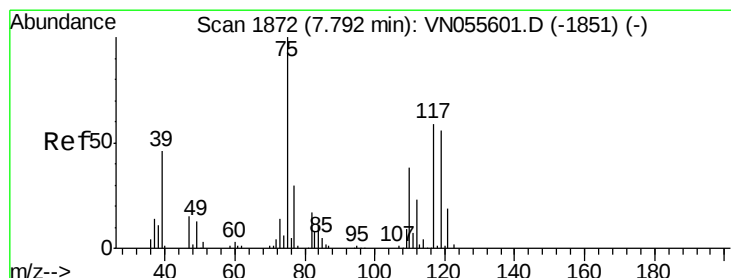
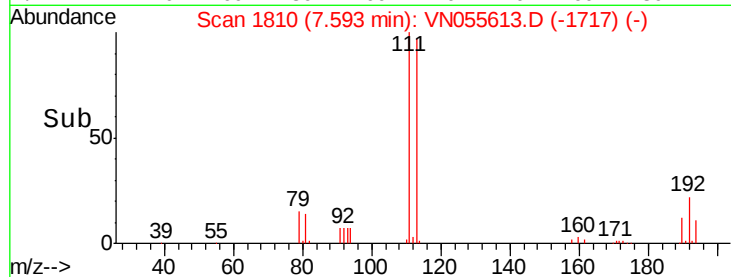
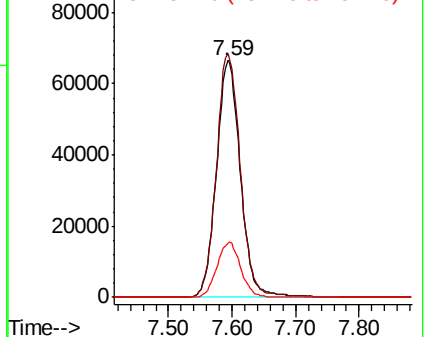
113 100

111 102.7 82.5 123.7

192 23.2 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: 4.767 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

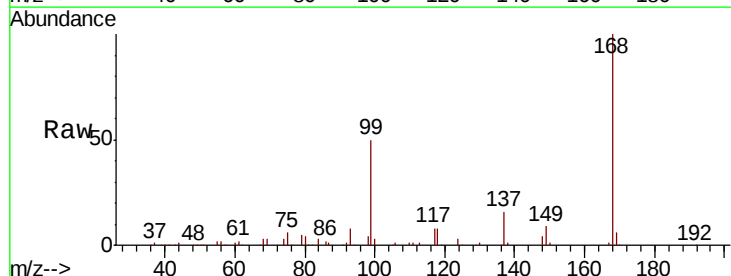
Tgt Ion: 75 Resp: 23988

Ion Ratio Lower Upper

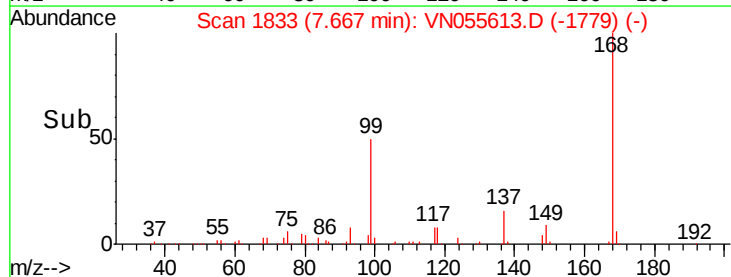
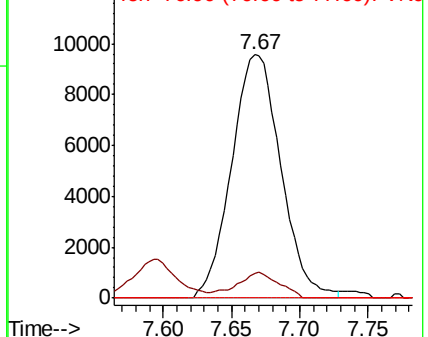
75 100

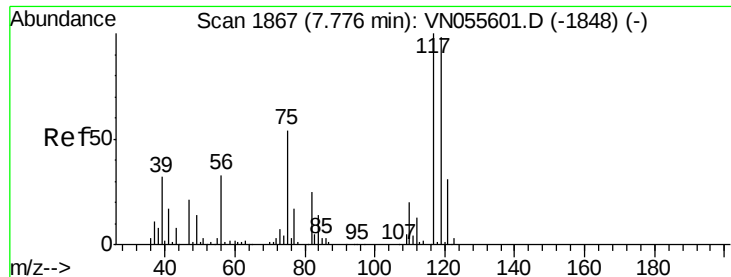
110 9.0 18.6 55.6#

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: 6.133 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

Instrument :

MSVOA_N

ClientSampleId :

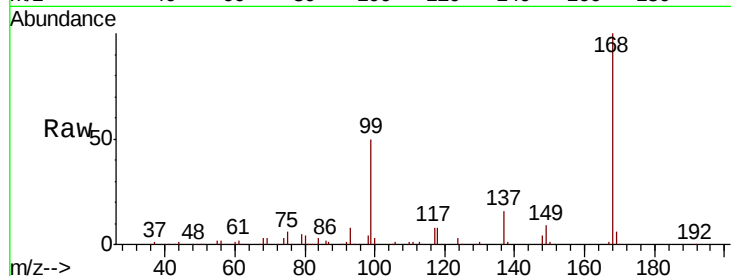
Tot Ion:117 Resp: 32975

Ion Ratio Lower Upper

117 100

119 5.5 77.8 116.8#

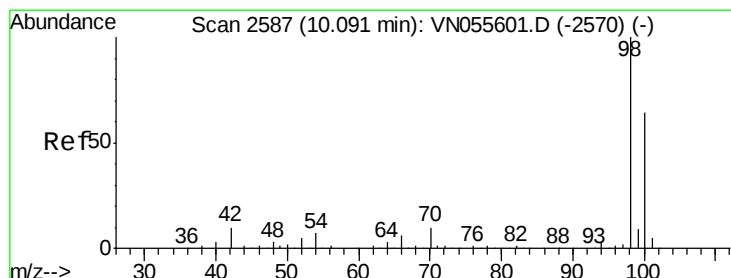
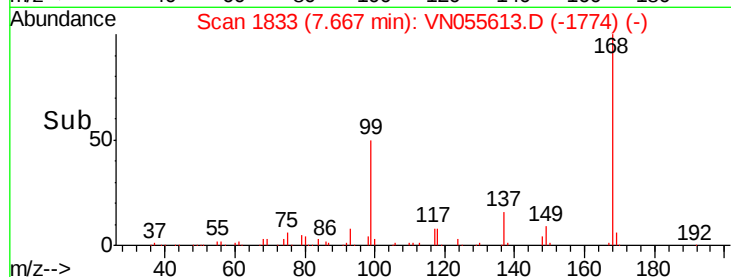
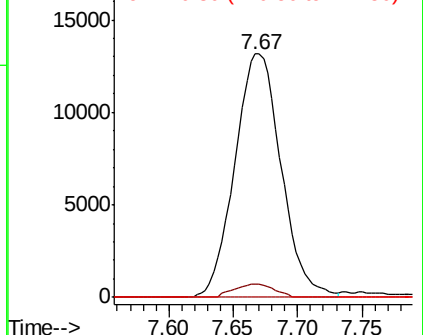
121 0.0 24.6 37.0#



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: 48.117 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055613.D

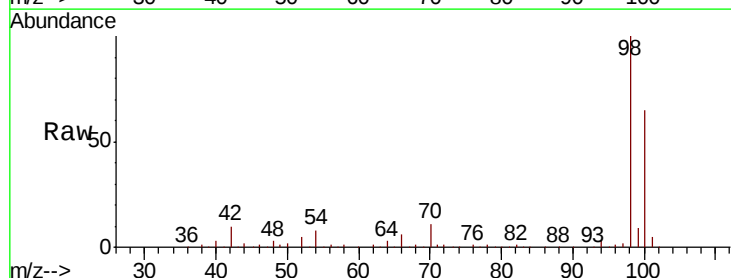
Acq: 17 May 2019 16:22

Tgt Ion: 98 Resp: 652269

Ion Ratio Lower Upper

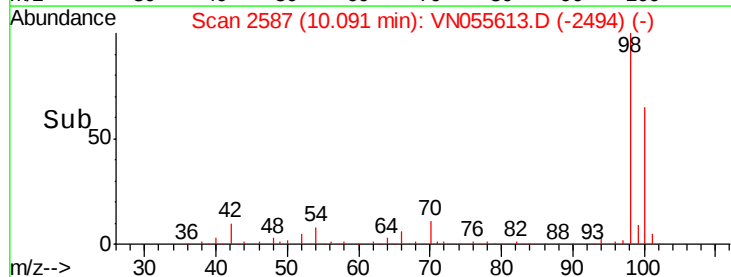
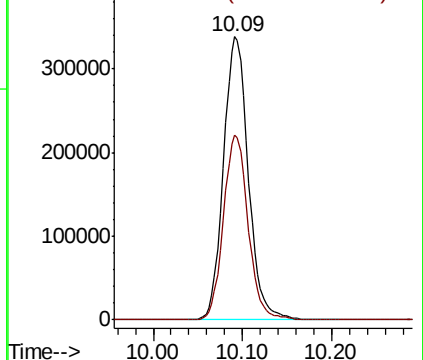
98 100

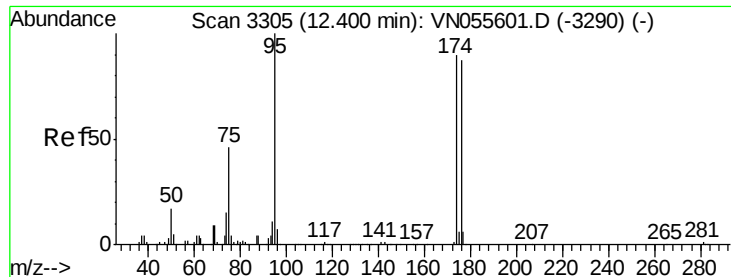
100 65.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

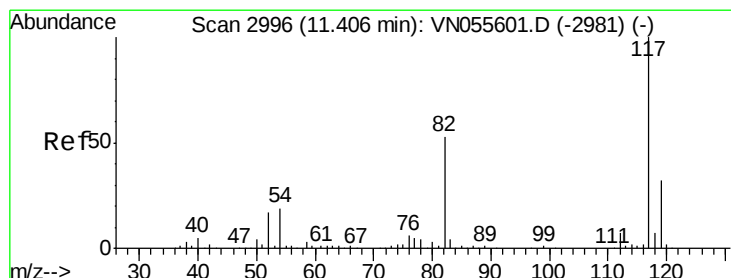
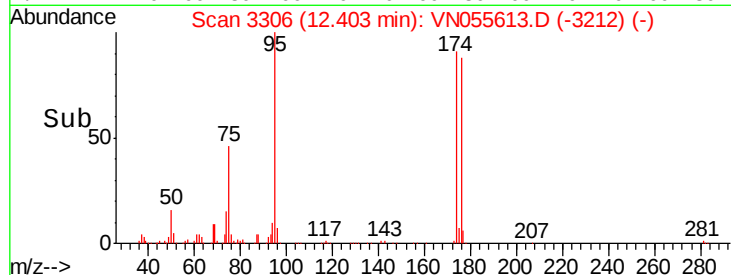
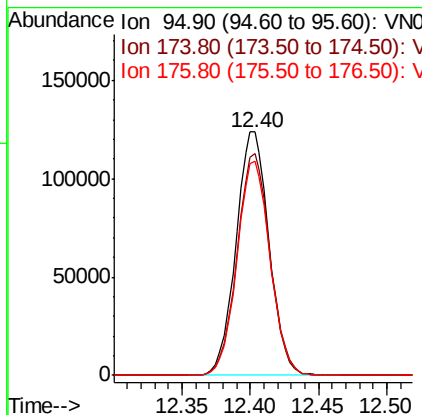
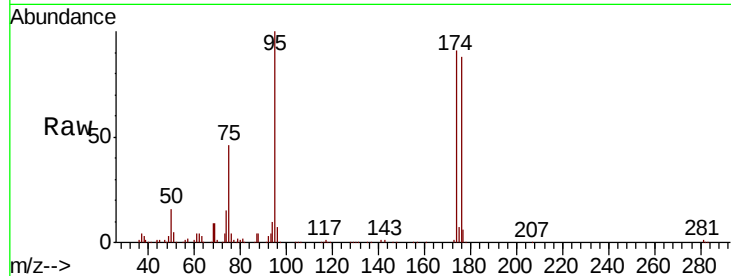




#62
4-Bromofluorobenzene
Concen: 44.343 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN055613.D
Acq: 17 May 2019 16:22

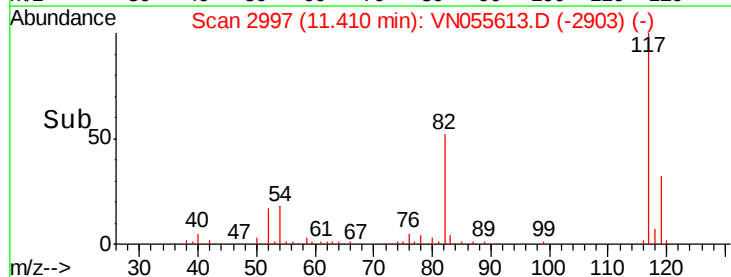
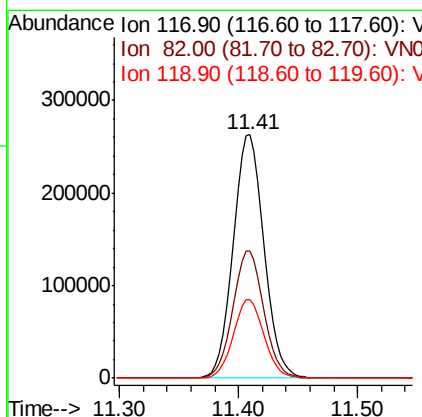
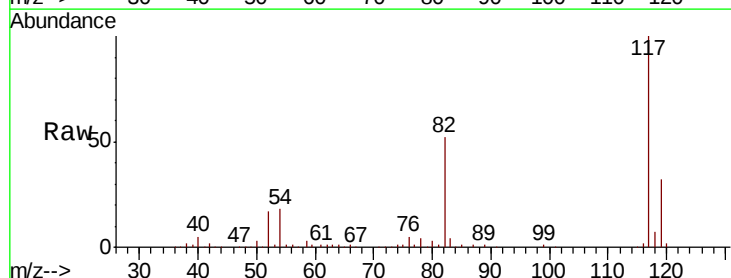
Instrument :
MSVOA_N
ClientSampleId :

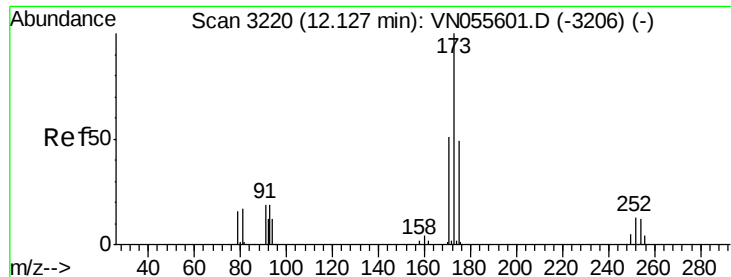
Tot Ion: 95 Resp: 207572
Ion Ratio Lower Upper
95 100
174 91.1 0.0 180.6
176 88.0 0.0 177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN055613.D
Acq: 17 May 2019 16:22

Tgt Ion: 117 Resp: 471490
Ion Ratio Lower Upper
117 100
82 52.3 42.3 63.5
119 32.2 25.4 38.2





#71

Bromoform

Concen: 0.416 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

Instrument :

MSVOA_N

ClientSampled :

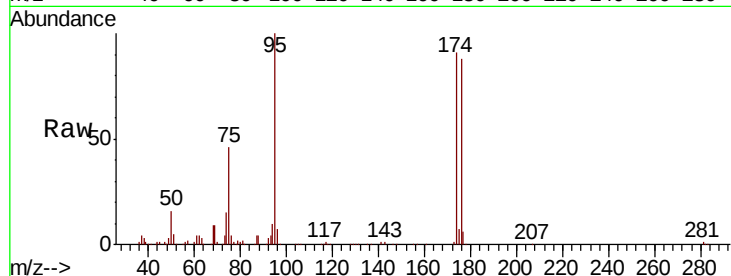
Tot Ion:173 Resp: 1352

Ion Ratio Lower Upper

173 100

175 864.8 24.3 72.9#

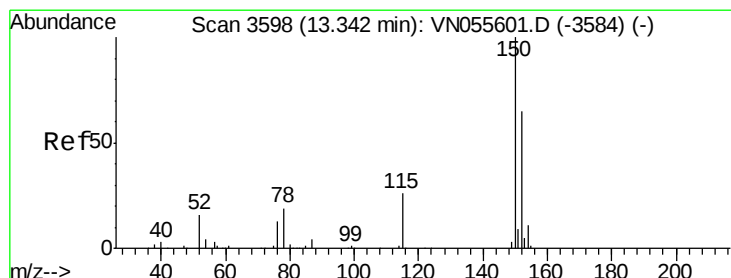
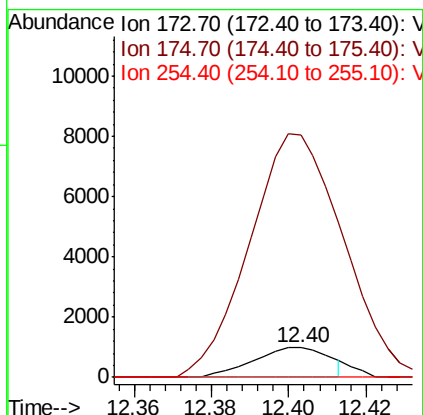
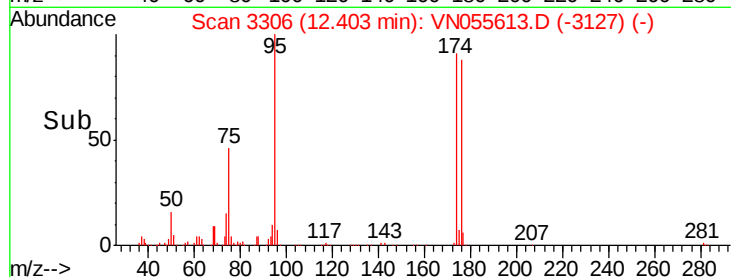
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

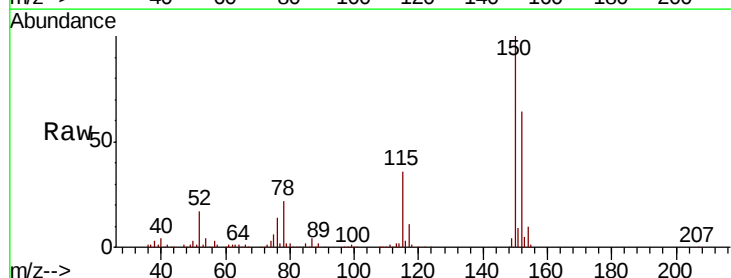
Tgt Ion:152 Resp: 181532

Ion Ratio Lower Upper

152 100

115 56.7 28.1 84.2

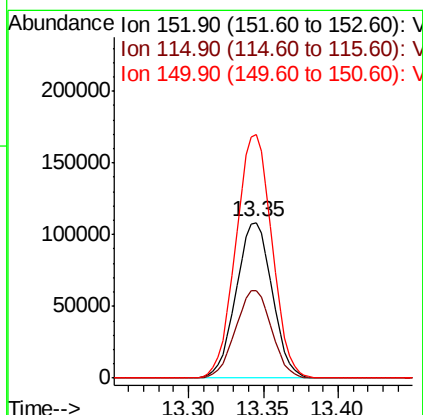
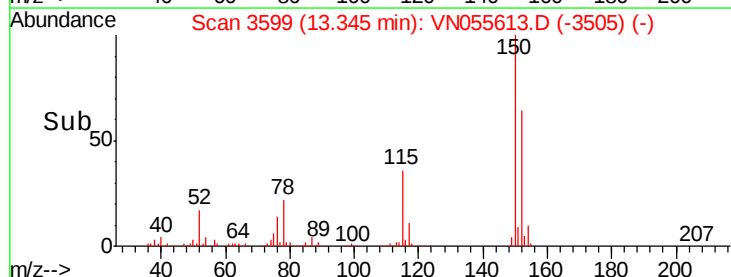
150 157.6 0.0 348.0

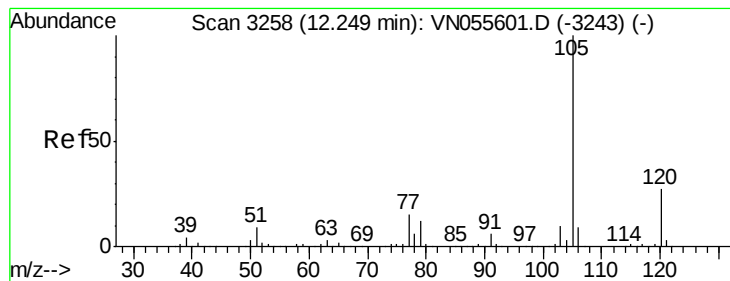


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN055613.D

Acq: 17 May 2019 16:22

Instrument :

MSVOA_N

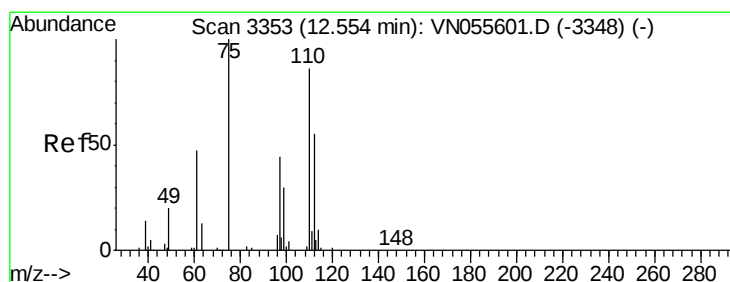
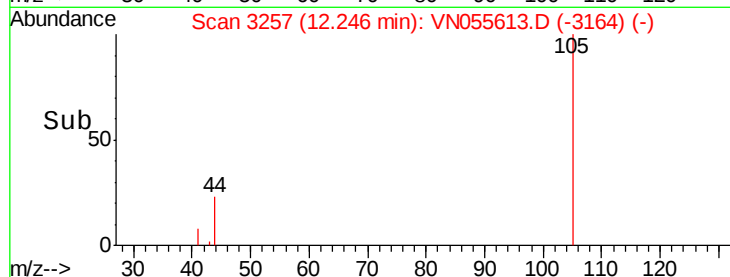
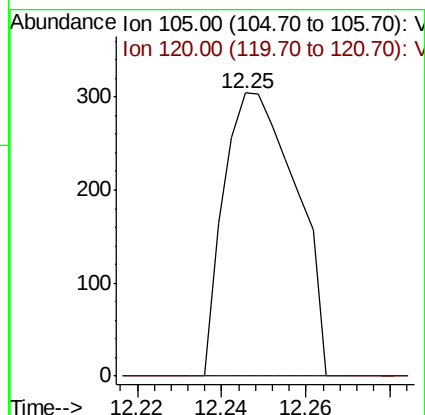
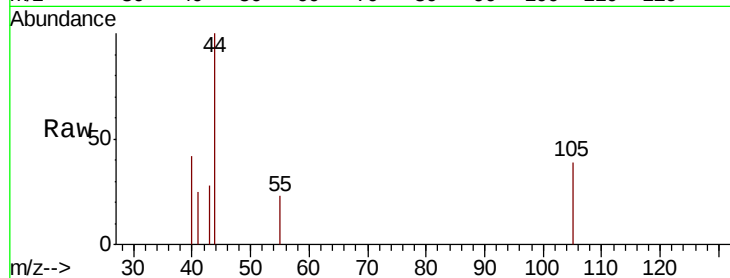
ClientSampleId :

Tot Ion:105 Resp: 363

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 26.017 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055613.D

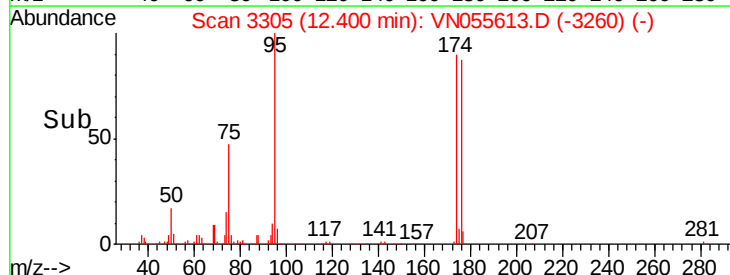
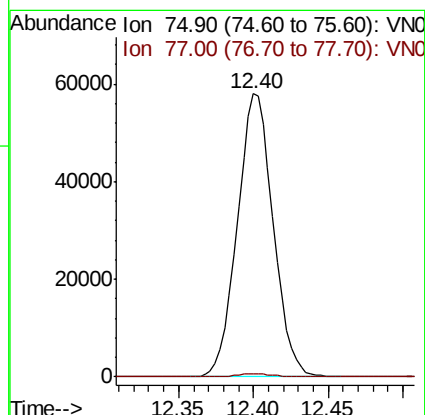
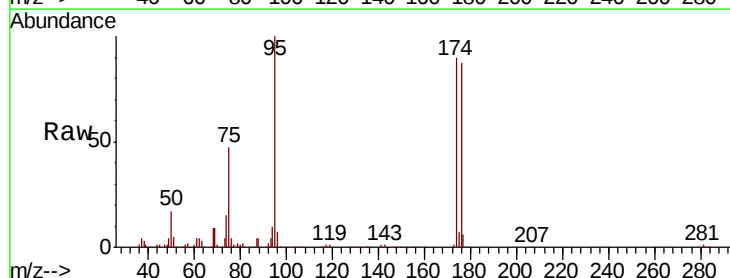
Acq: 17 May 2019 16:22

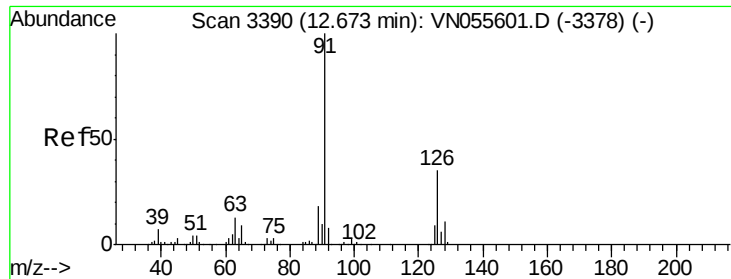
Tgt Ion: 75 Resp: 96371

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

Instrument :

MSVOA_N

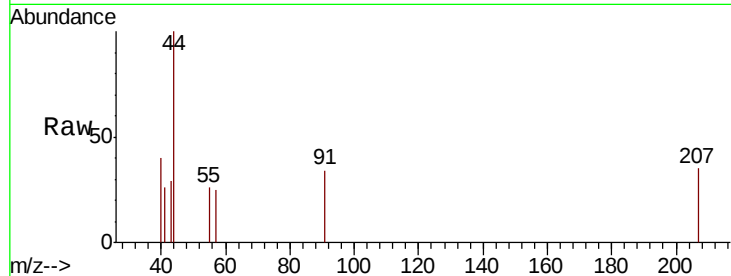
ClientSampleId :

Tot Ion: 91 Resp: 274

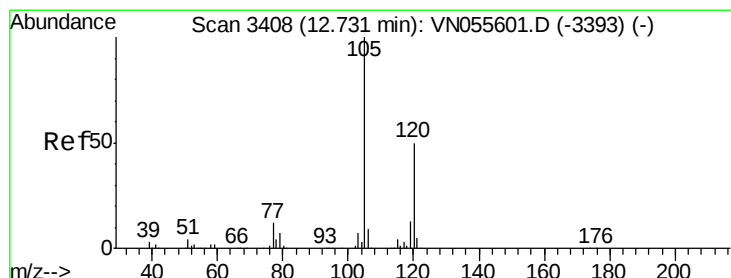
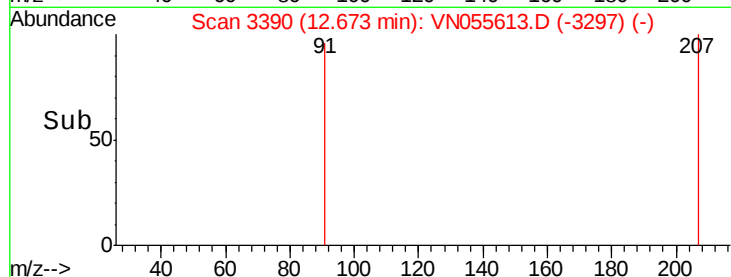
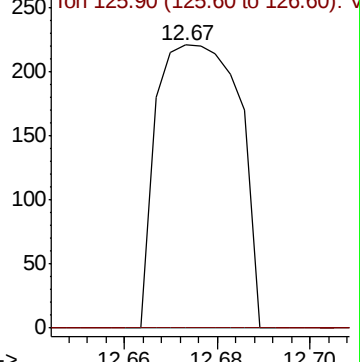
Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055613.D (-3390) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN055613.D

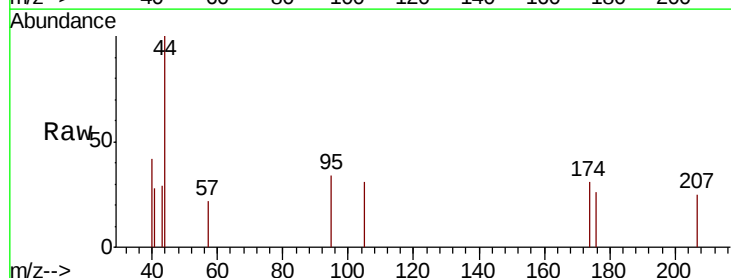
Acq: 17 May 2019 16:22

Tgt Ion: 105 Resp: 271

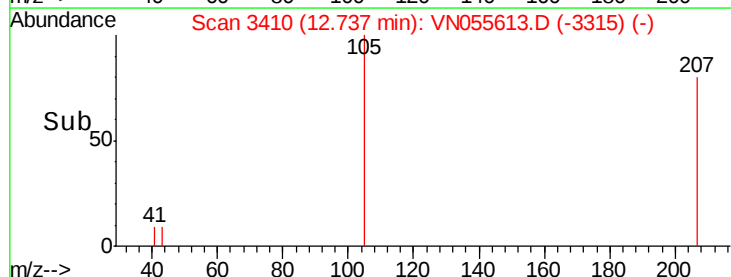
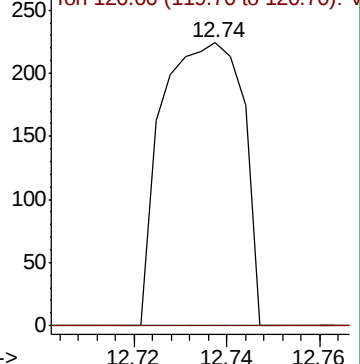
Ion Ratio Lower Upper

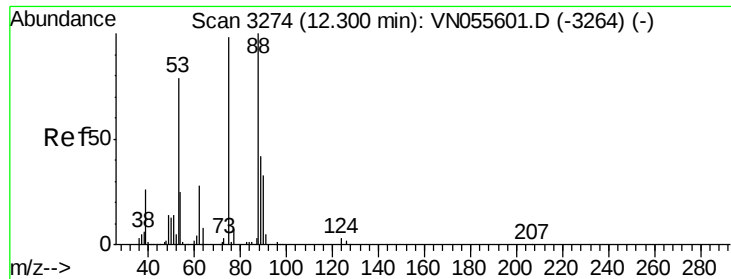
105 100

120 0.0 24.6 74.0#



Abundance Ion 105.00 (104.70 to 105.70): VN055613.D (-3408) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 66.878 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055613.D

Acq: 17 May 2019 16:22

Instrument :

MSVOA_N

ClientSampled :

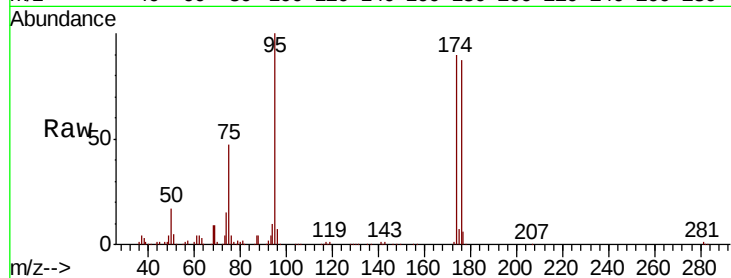
Tot Ion: 75 Resp: 96371

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

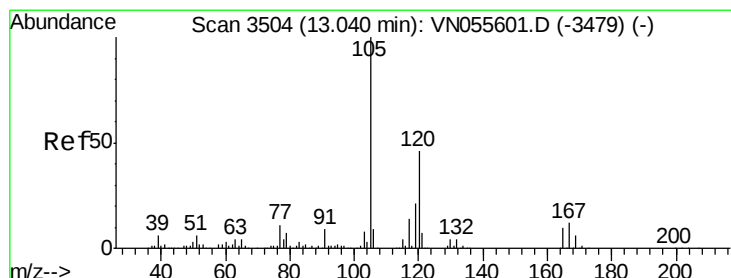
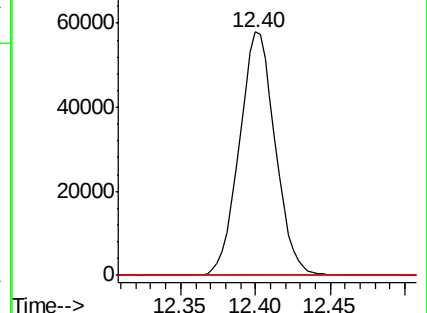
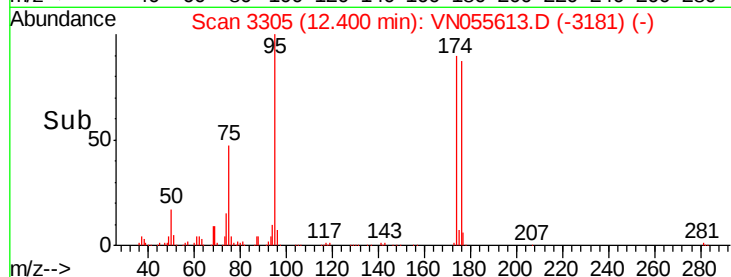
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055613.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055613.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055613.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN055613.D

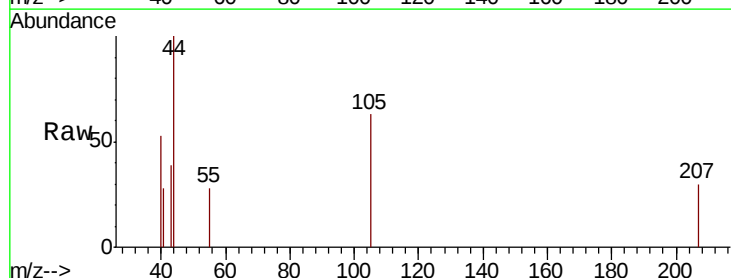
Acq: 17 May 2019 16:22

Tgt Ion: 105 Resp: 432

Ion Ratio Lower Upper

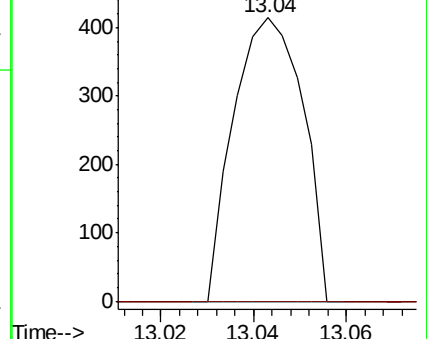
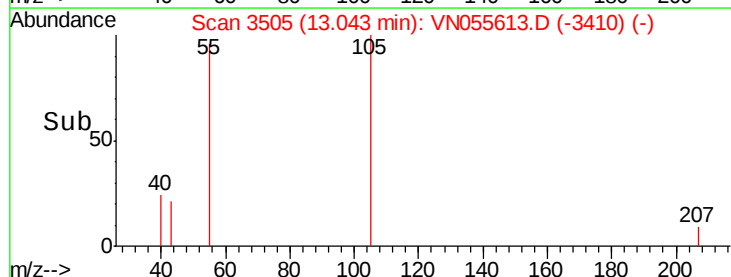
105 100

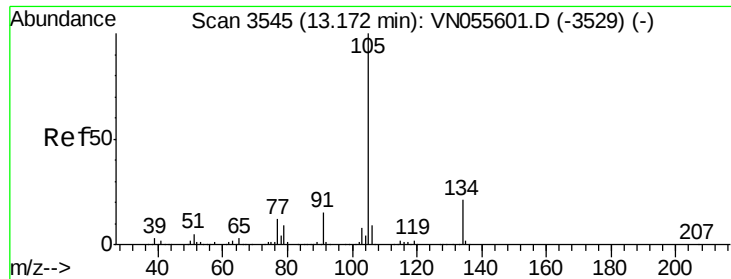
120 0.0 23.1 69.2#



Abundance Ion 105.00 (104.70 to 105.70): VN055613.D (-3410) (-)

Ion 120.00 (119.70 to 120.70): VN055613.D (-3410) (-)

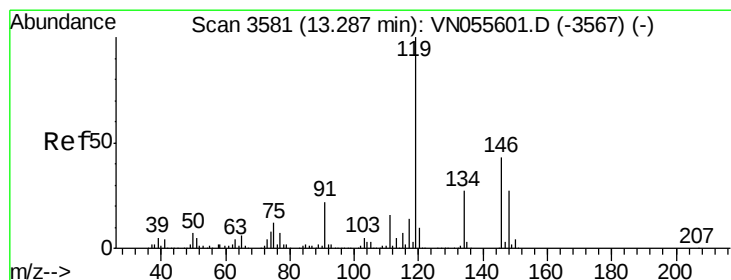
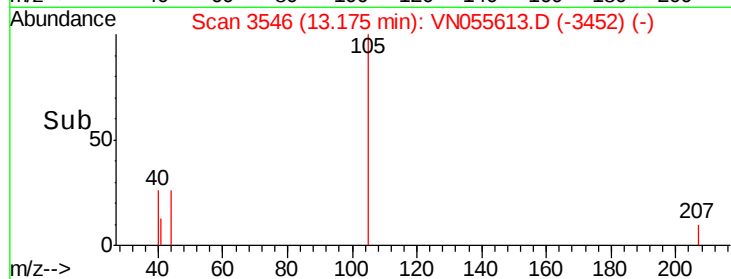
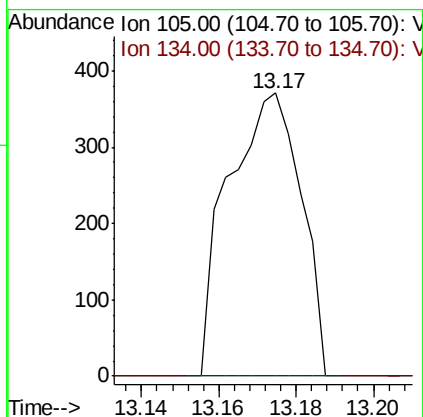
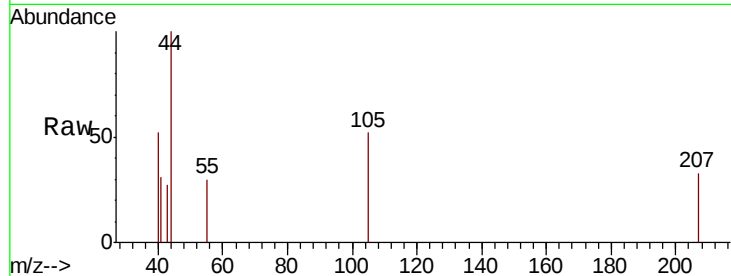




#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN055613.D
 Acq: 17 May 2019 16:22

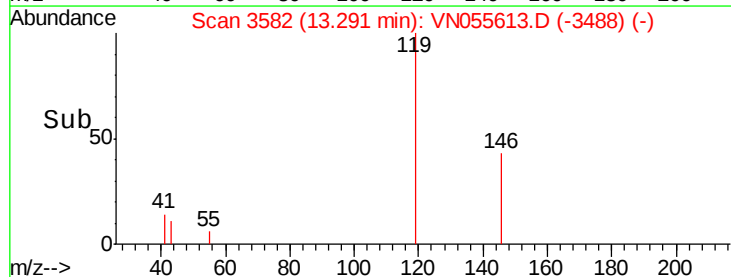
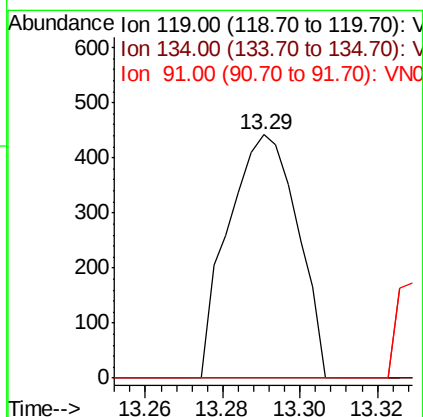
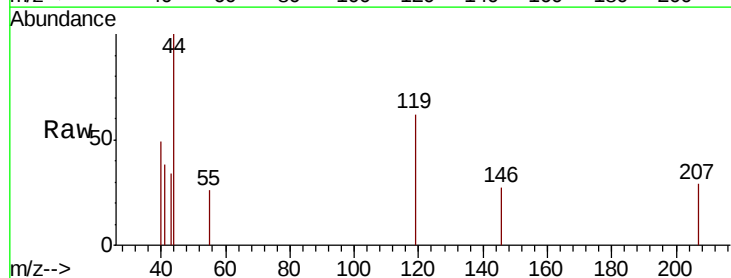
Instrument :
 MSVOA_N
 ClientSampleId :

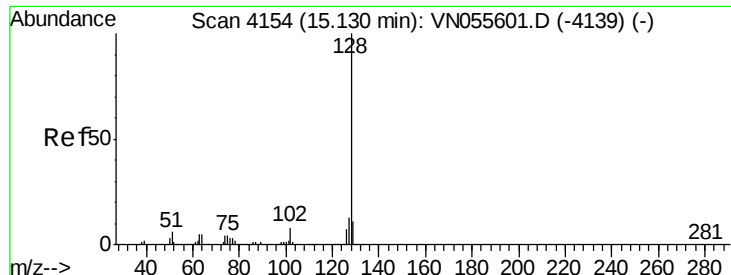
Tot Ion:105 Resp: 485
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.3 30.9#



#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN055613.D
 Acq: 17 May 2019 16:22

Tgt Ion:119 Resp: 549
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.4 40.2#
 91 0.0 11.0 33.0#





#95

Naphthalene

Concen: 1.829 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

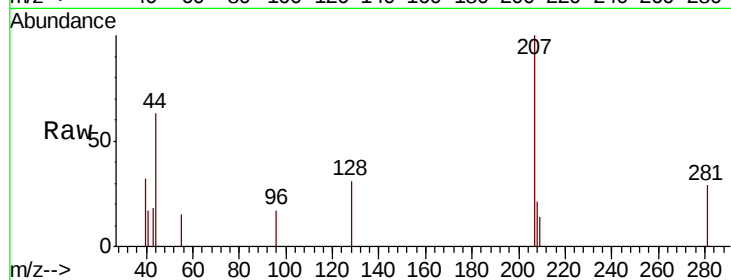
Lab File: VN055613.D

Acq: 17 May 2019 16:22

Instrument :

MSVOA_N

ClientSampleId :



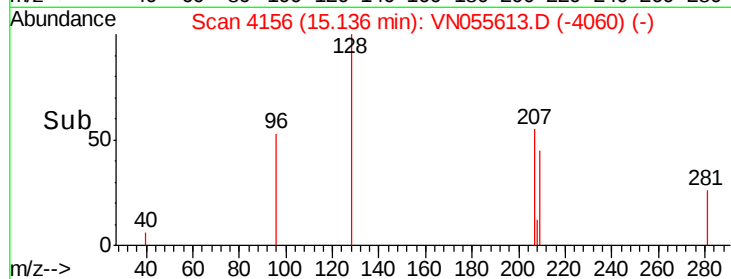
Tot Ion:128 Resp: 637

Ion Ratio Lower Upper

128 100

127 0.0 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

15.14

Time-->