

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058215.D
 Acq On : 19 Sep 2019 19:38
 Operator : JC/SP
 Sample : K4896-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D3-20190912

Quant Time: Sep 20 04:24:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	526205	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	835148	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	709697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	286942	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	363264	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
35) Dibromofluoromethane	7.58	113	252277	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
50) Toluene-d8	10.08	98	1046402	52.90	ug/l	0.00
Spiked Amount			Recovery	=	105.80%	
62) 4-Bromofluorobenzene	12.41	95	326403	44.42	ug/l	0.00
Spiked Amount			Recovery	=	88.84%	

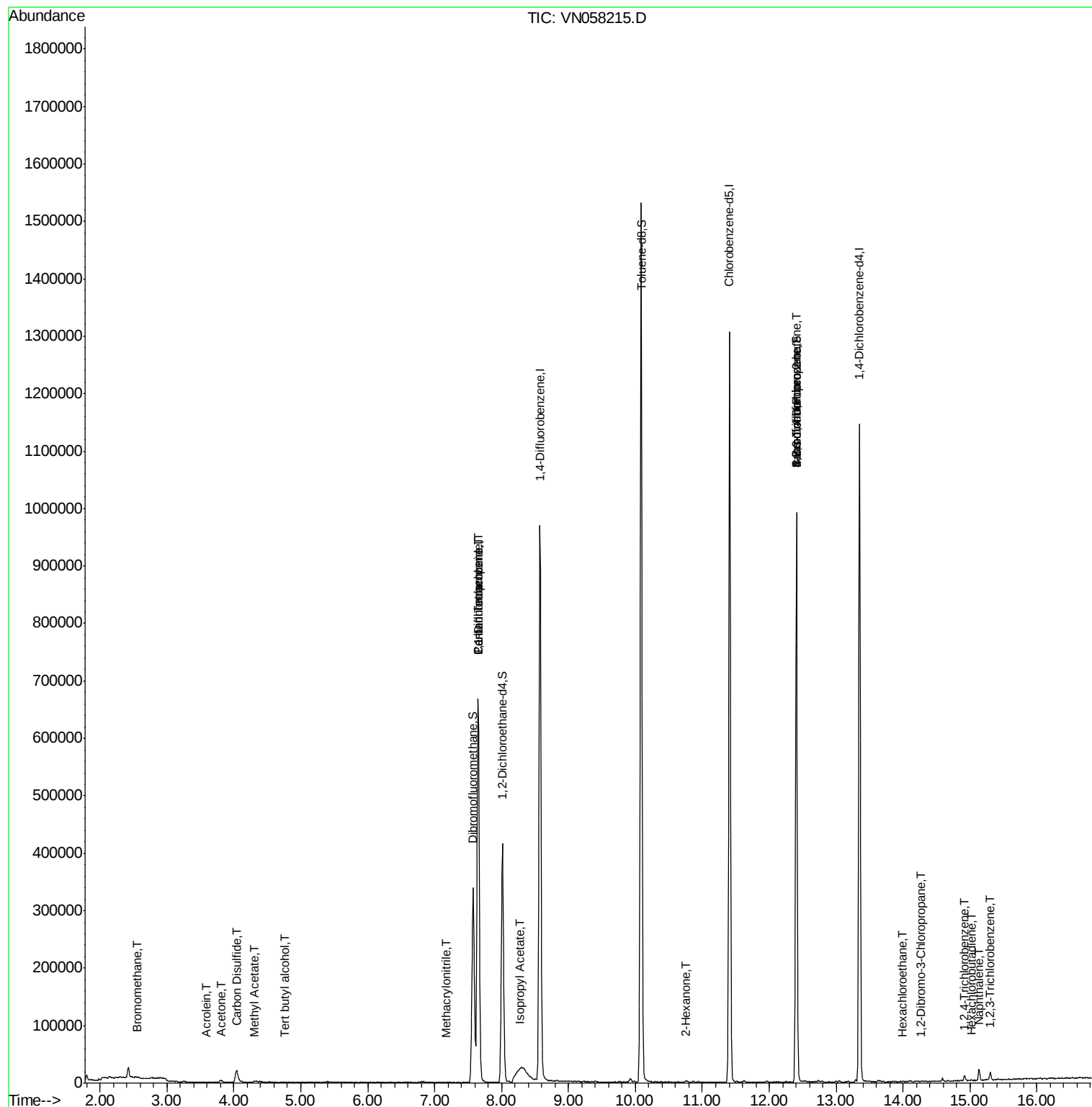
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1279	Below Cal		94
4) Vinyl Chloride	2.45	62	32	Below Cal	#	43
5) Bromomethane	2.55	94	677	1.068	ug/l	84
6) Chloroethane	2.69	64	96	Below Cal	#	44
11) Tert butyl alcohol	4.76	59	1111	1.274	ug/l #	71
13) Acrolein	3.59	56	62	0.480	ug/l #	15
16) Acetone	3.81	43	5892	2.368	ug/l	100
17) Carbon Disulfide	4.03	76	748	0.435	ug/l #	74
18) Methyl Acetate	4.30	43	1726	0.264	ug/l #	64
20) Methylene Chloride	4.52	84	319	Below Cal	#	14
31) Cyclohexane	7.65	56	13710	Below Cal	#	22
36) 1,1-Dichloropropene	7.65	75	46455	7.713	ug/l #	51
38) Carbon Tetrachloride	7.65	117	54175	8.948	ug/l #	14
41) Methacrylonitrile	7.18	41	74	0.934	ug/l #	100
43) Isopropyl Acetate	8.26	43	31098	2.664	ug/l #	57
59) 2-Hexanone	10.76	43	1053	0.229	ug/l #	17
71) Bromoform	12.40	173	802	3.817	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	181118	35.269	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	181118	98.615	ug/l #	5
90) Hexachloroethane	14.00	117	72	2.847	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.26	75	259	0.239	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.92	180	3140	0.594	ug/l	94
94) Hexachlorobutadiene	15.01	225	646	0.253	ug/l	63
95) Naphthalene	15.13	128	14570	1.063	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.30	180	4046	0.809	ug/l	98

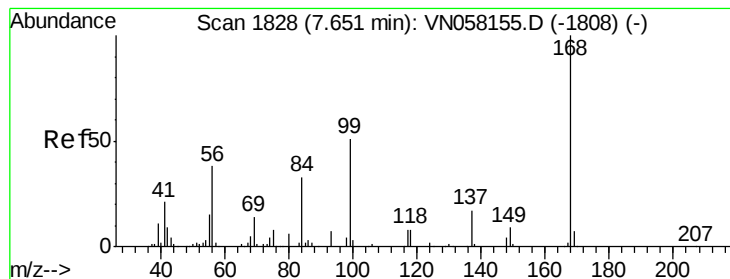
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091919\
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QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

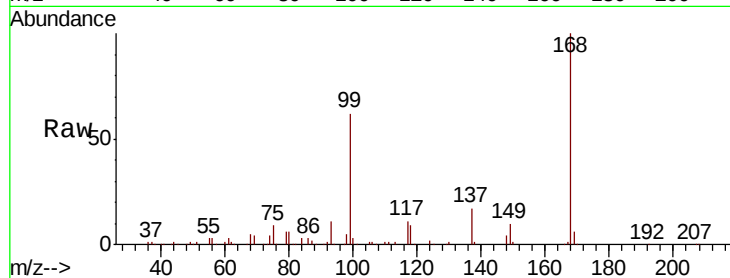
RE123D3-20190912

Tot Ion:168 Resp: 526205

Ion Ratio Lower Upper

168 100

99 61.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

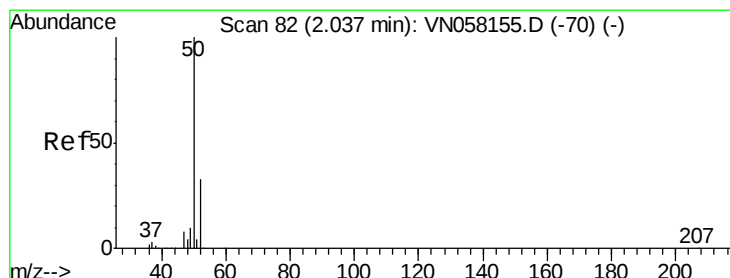
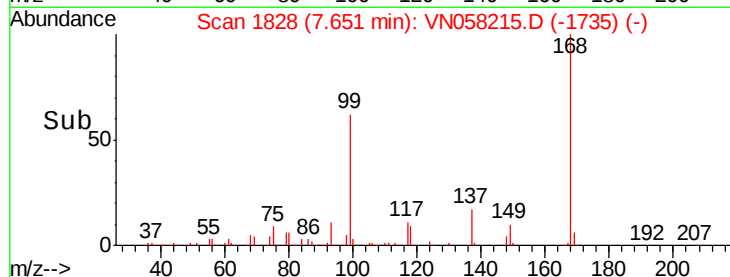
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058215.D

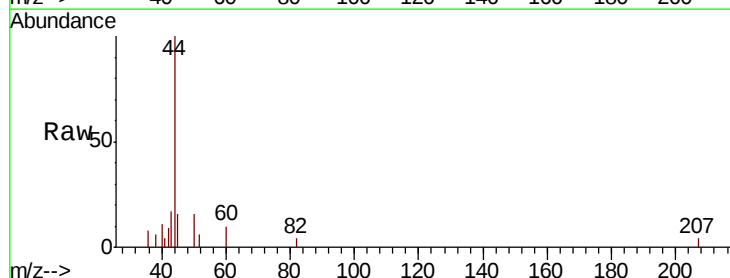
Acq: 19 Sep 2019 19:38

Tgt Ion: 50 Resp: 1279

Ion Ratio Lower Upper

50 100

52 36.6 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

800

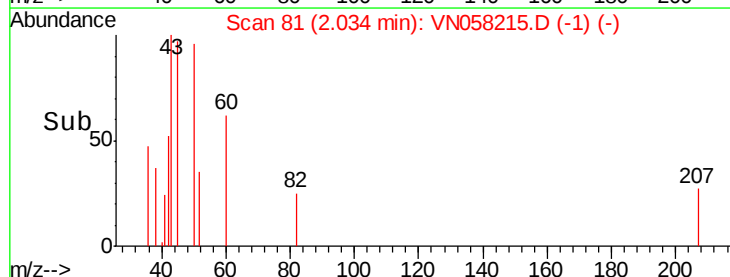
600

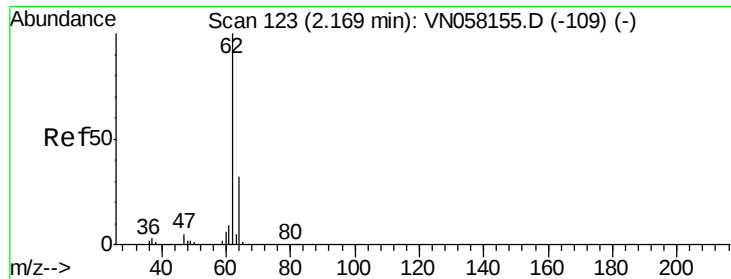
400

200

0

Time--> 2.00 2.05





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.45 min Scan# 210

Delta R.T. 0.28 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

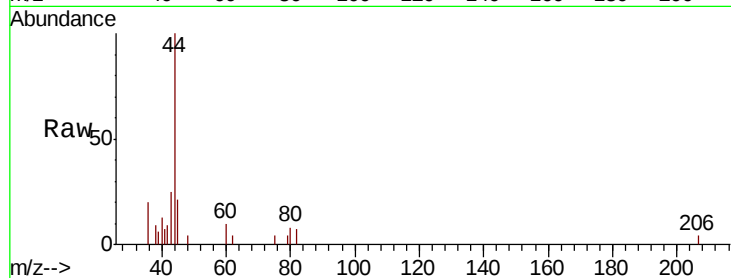
RE123D3-20190912

Tot Ion: 62 Resp: 32

Ion Ratio Lower Upper

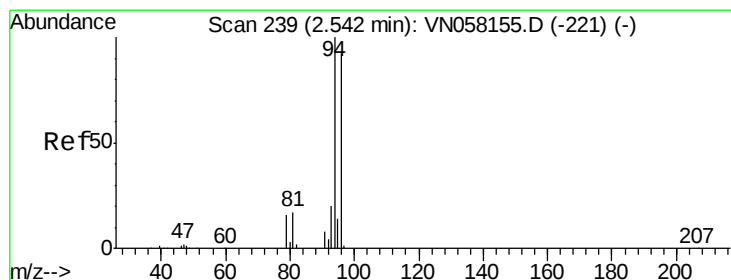
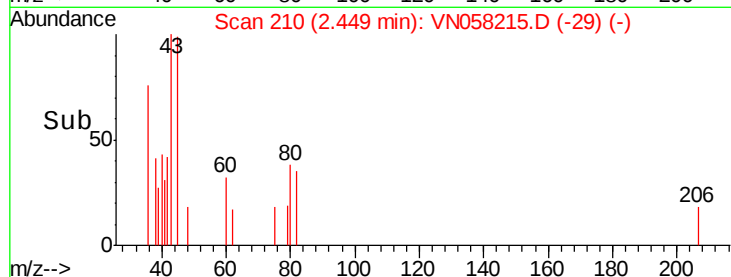
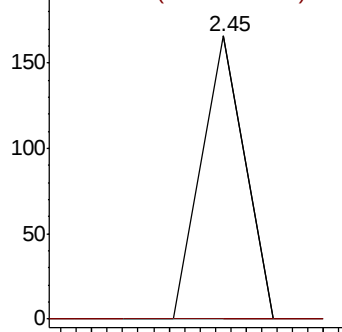
62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#5

Bromomethane

Concen: 1.068 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN058215.D

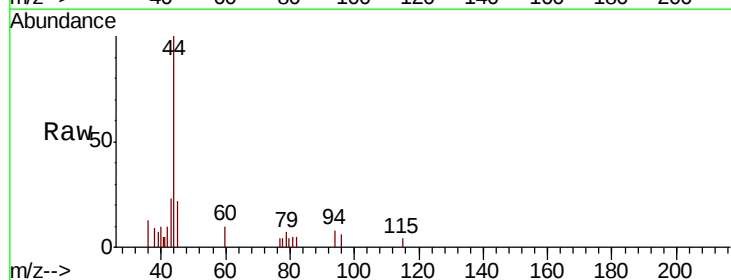
Acq: 19 Sep 2019 19:38

Tgt Ion: 94 Resp: 677

Ion Ratio Lower Upper

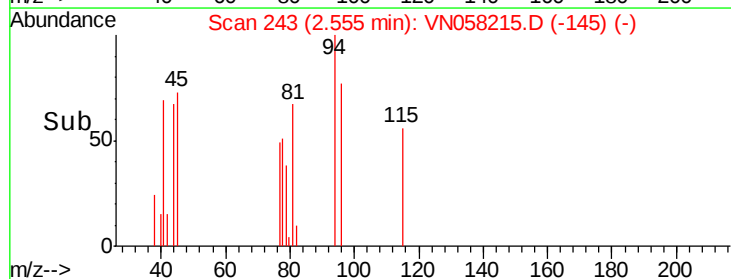
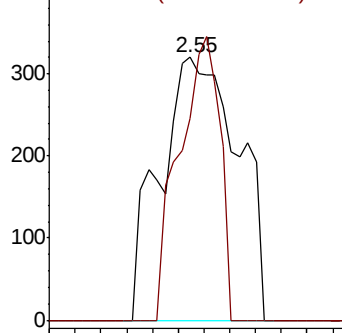
94 100

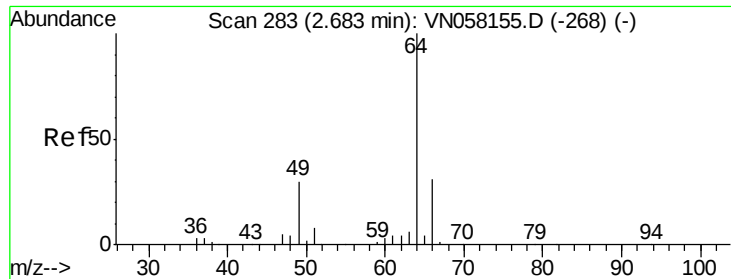
96 76.6 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 285

Delta R.T. 0.01 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

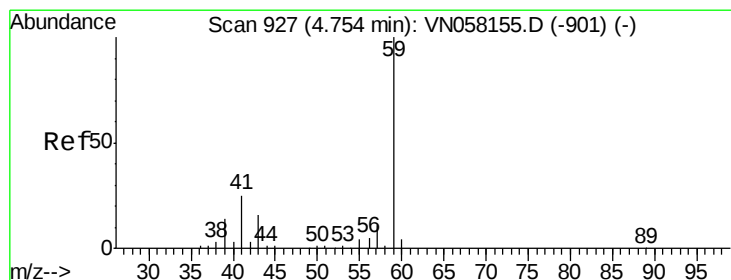
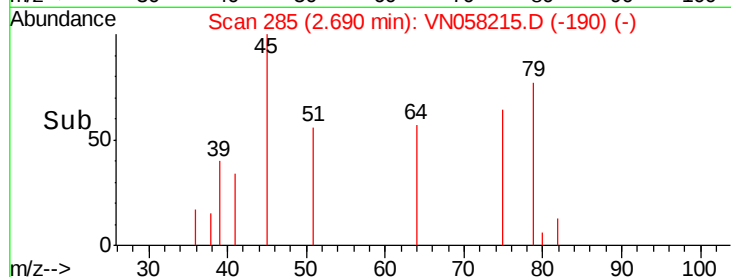
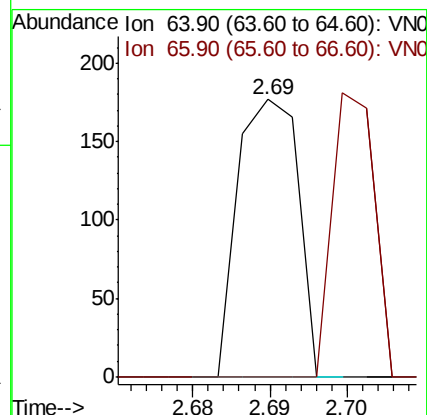
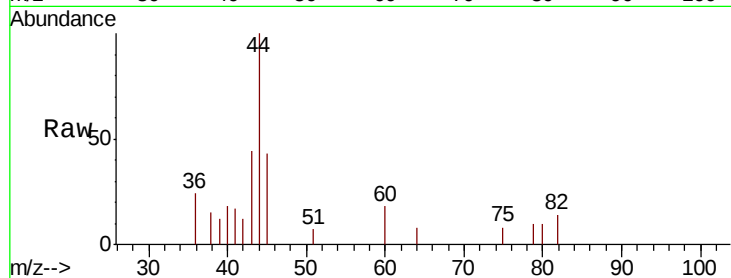
RE123D3-20190912

Tot Ion: 64 Resp: 96

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



#11

Tert butyl alcohol

Concen: 1.274 ug/l

RT: 4.76 min Scan# 930

Delta R.T. 0.01 min

Lab File: VN058215.D

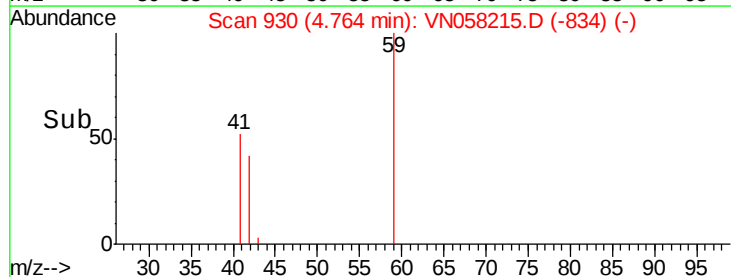
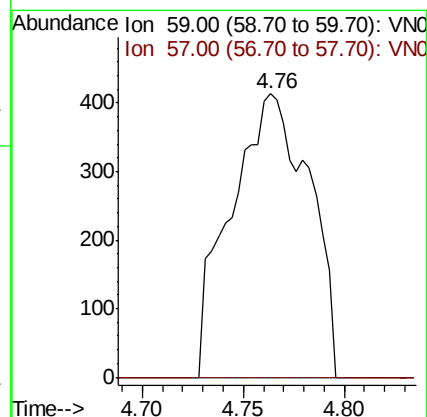
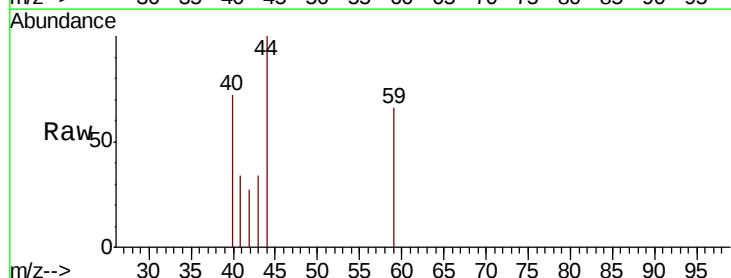
Acq: 19 Sep 2019 19:38

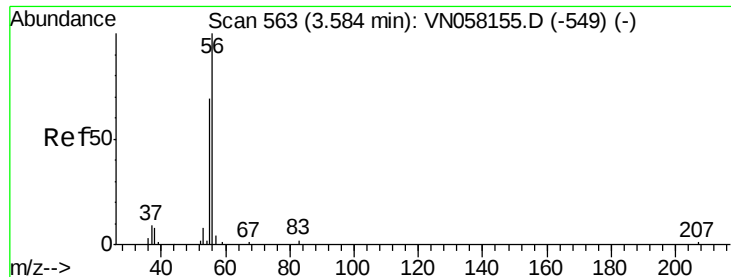
Tgt Ion: 59 Resp: 1111

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#13

Acrolein

Concen: 0.480 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.01 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

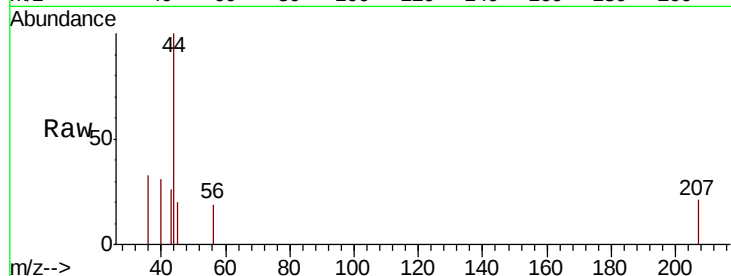
RE123D3-20190912

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

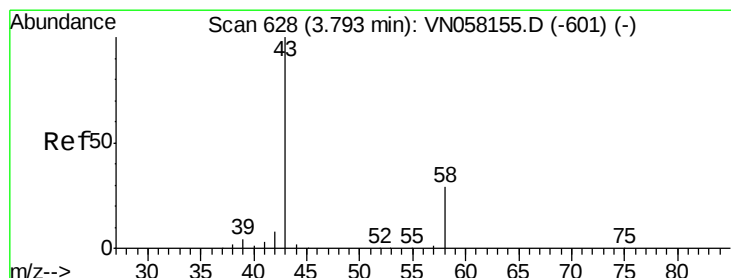
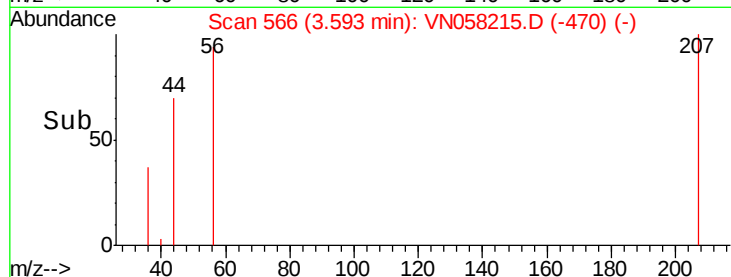
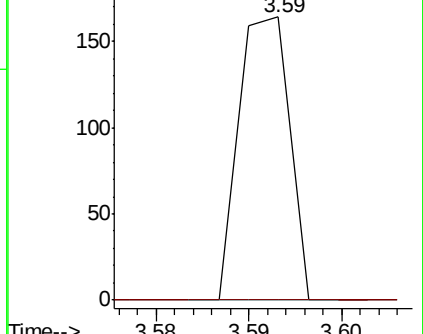
56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 2.368 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN058215.D

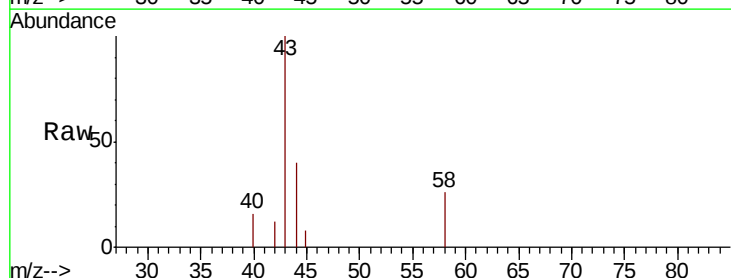
Acq: 19 Sep 2019 19:38

Tgt Ion: 43 Resp: 5892

Ion Ratio Lower Upper

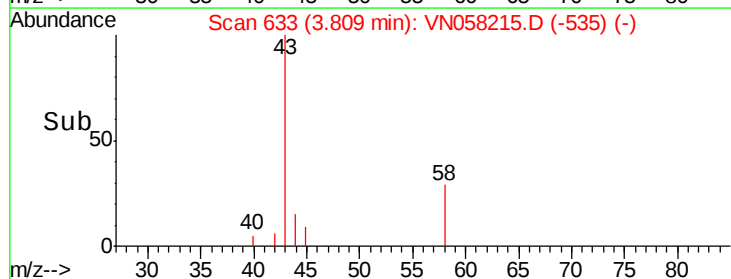
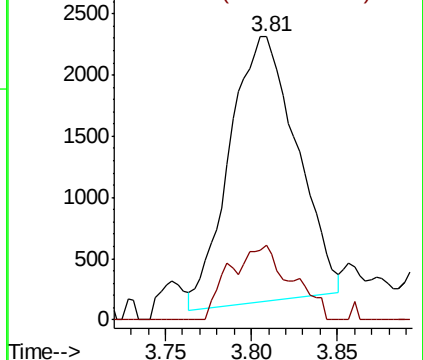
43 100

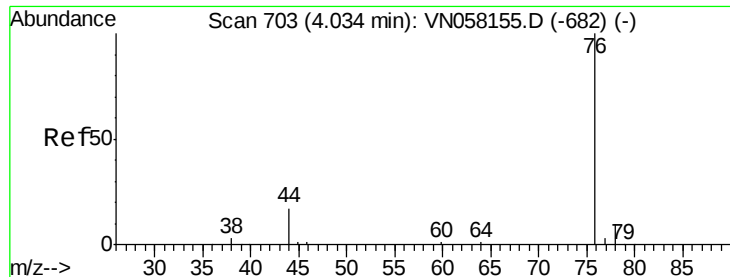
58 29.0 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

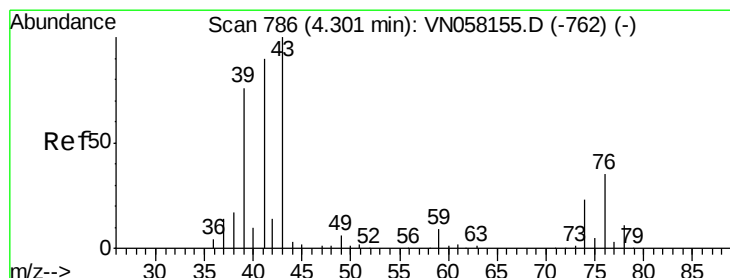
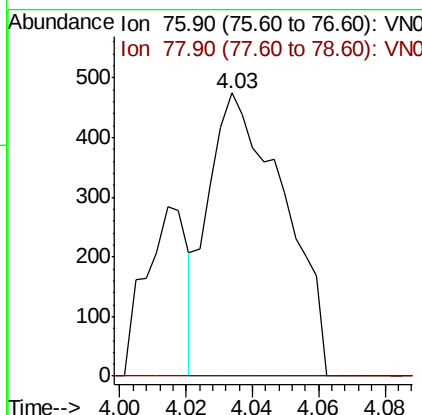
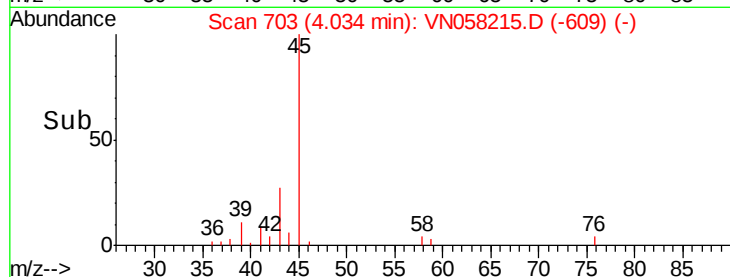
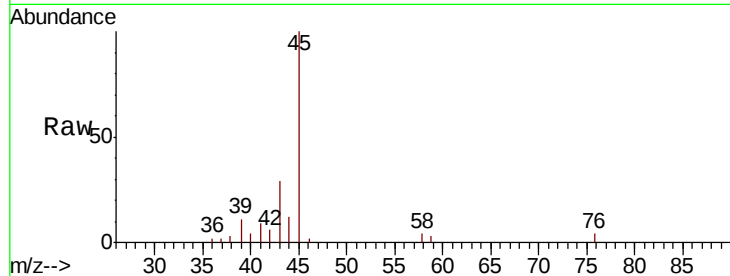




#17
Carbon Disulfide
Concen: 0.435 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN058215.D
Acq: 19 Sep 2019 19:38

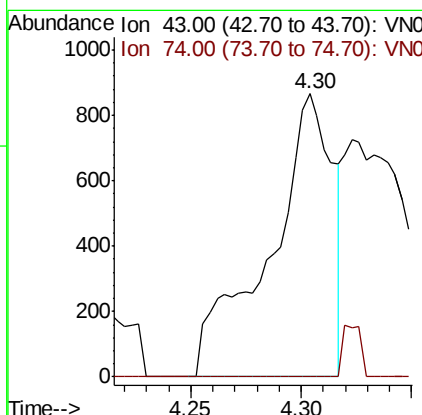
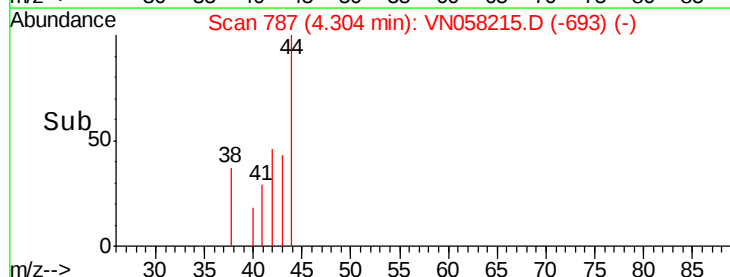
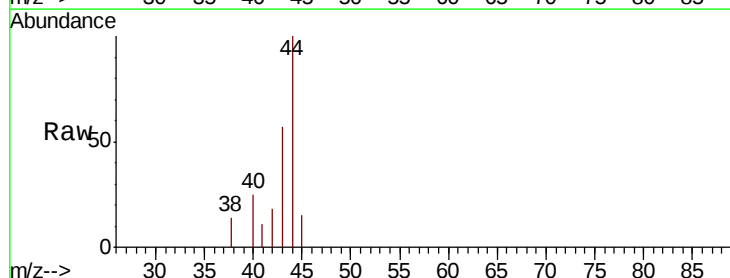
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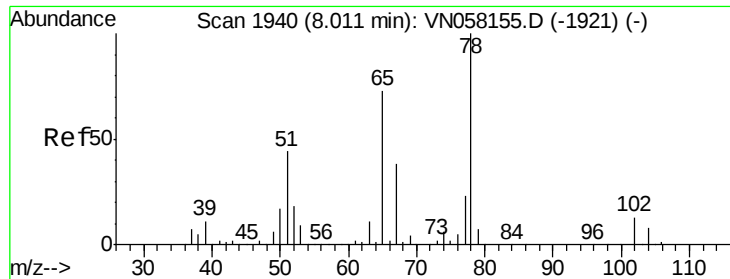
Tot Ion: 76 Resp: 748
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methyl Acetate
Concen: 0.264 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN058215.D
Acq: 19 Sep 2019 19:38

Tgt Ion: 43 Resp: 1726
Ion Ratio Lower Upper
43 100
74 5.2 18.0 27.0#

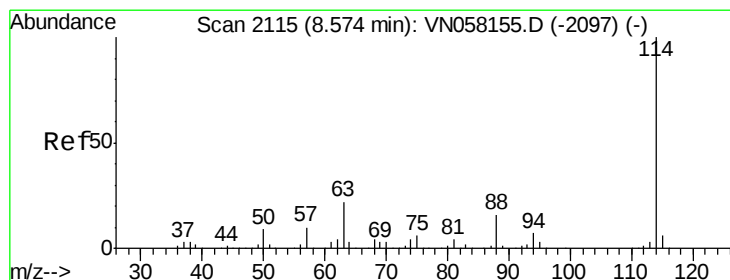
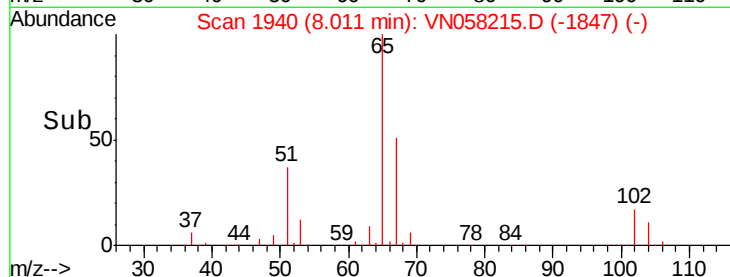
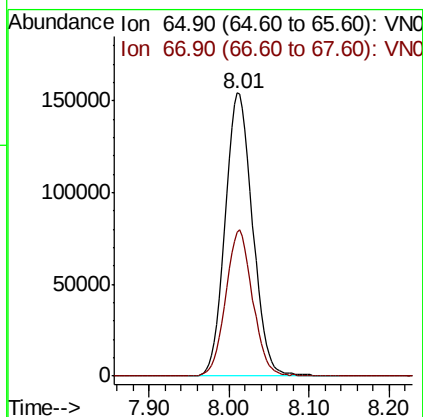
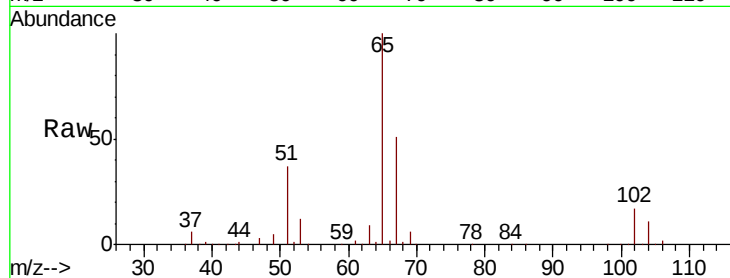




#33
 1,2-Dichloroethane-d4
 Concen: 49.565 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058215.D
 Acq: 19 Sep 2019 19:38

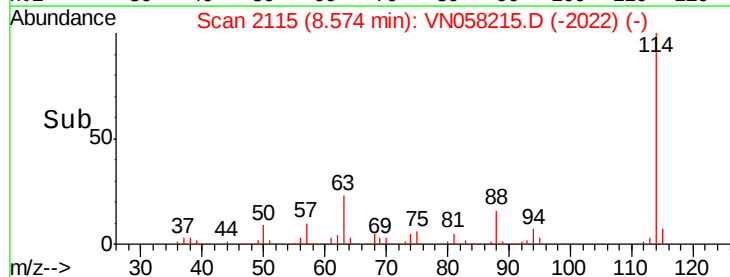
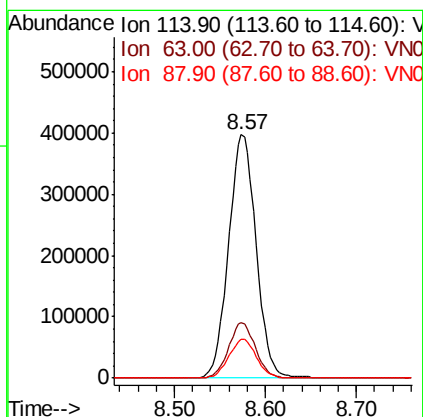
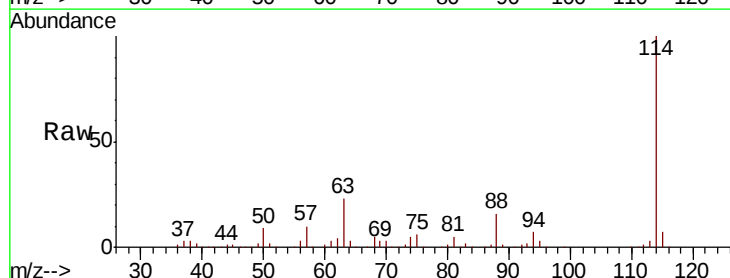
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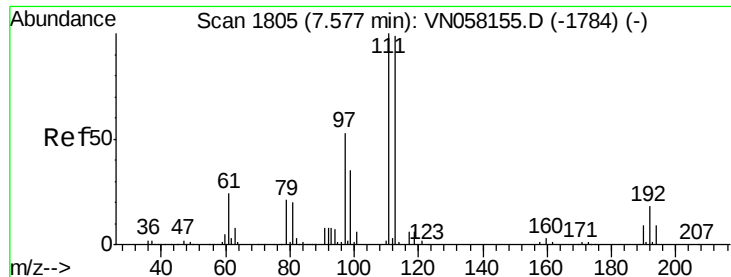
Tot Ion: 65 Resp: 363264
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058215.D
 Acq: 19 Sep 2019 19:38

Tgt Ion: 114 Resp: 835148
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.2
 88 16.0 0.0 31.6

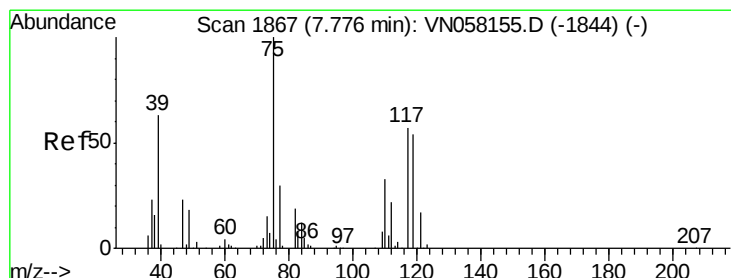
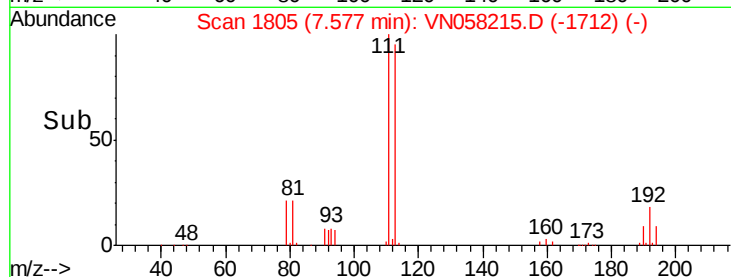
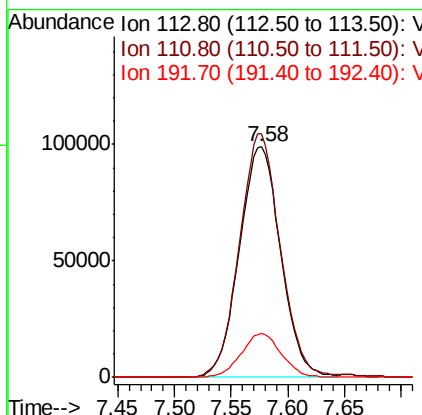
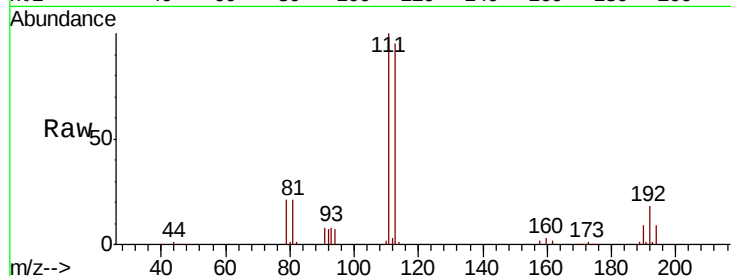




#35
 Dibromofluoromethane
 Concen: 49.690 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN058215.D
 Acq: 19 Sep 2019 19:38

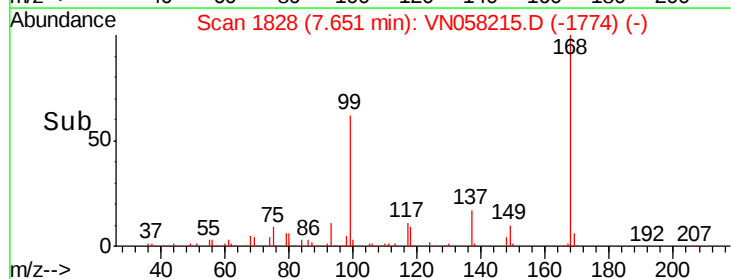
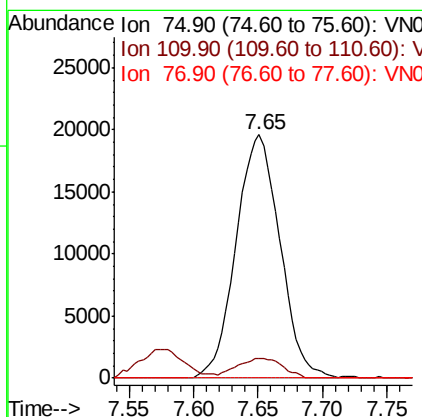
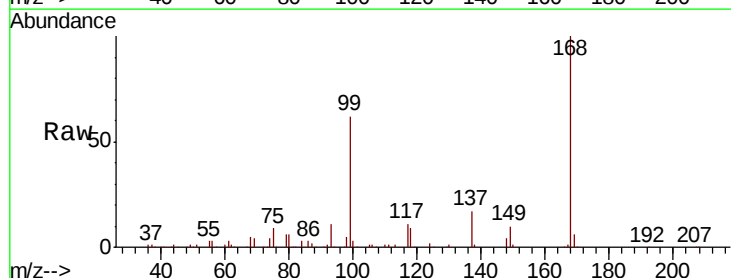
Instrument :
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 ClientSampleId :
 RE123D3-20190912

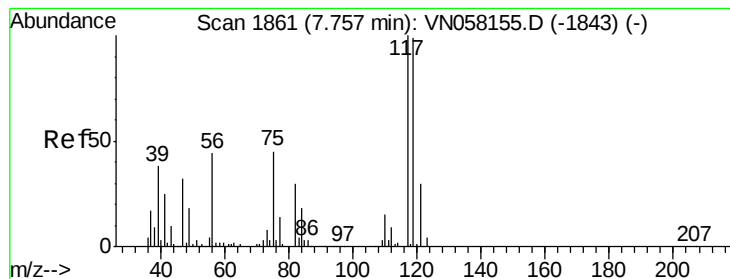
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.8	81.8	122.6
192	18.5	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.713 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058215.D
 Acq: 19 Sep 2019 19:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.948 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

RE123D3-20190912

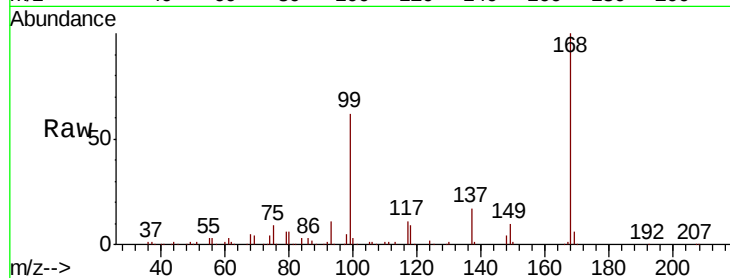
Tot Ion:117 Resp: 54175

Ion Ratio Lower Upper

117 100

119 3.6 78.6 117.8#

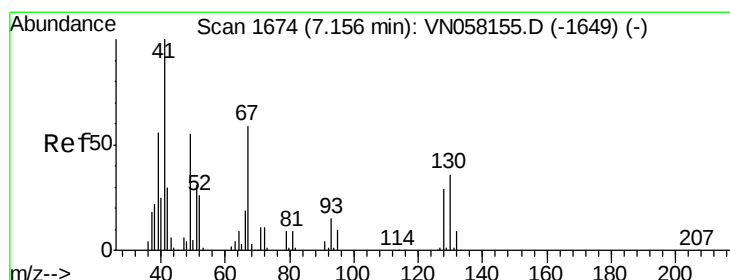
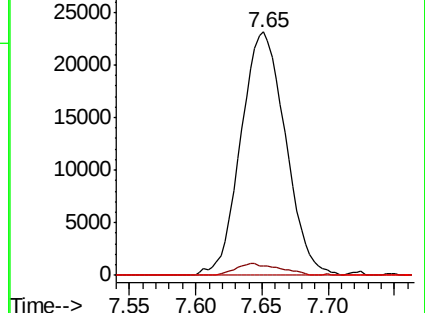
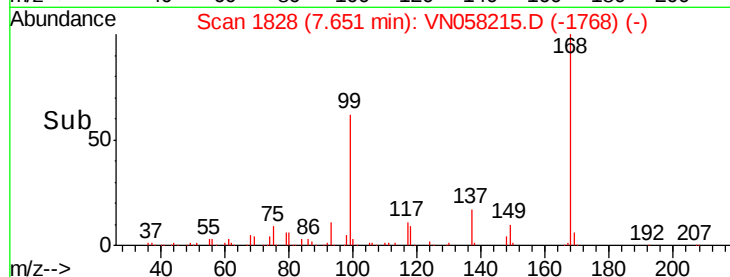
121 0.0 24.1 36.1#



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: 0.934 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.02 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Tgt Ion: 41 Resp: 74

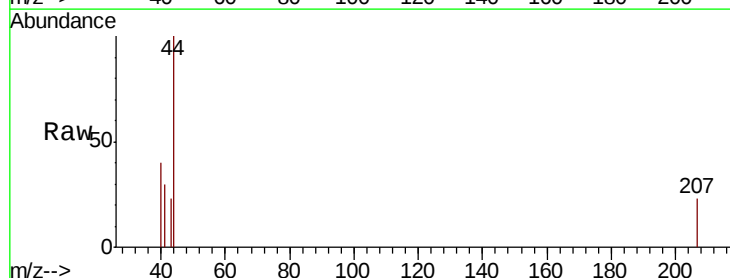
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

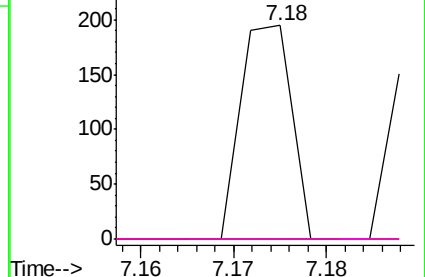
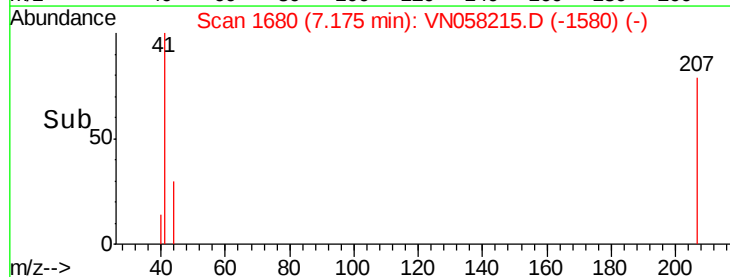


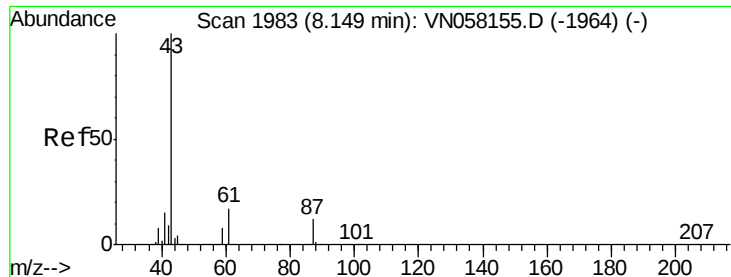
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.664 ug/l

RT: 8.26 min Scan# 2017

Delta R.T. 0.11 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

RE123D3-20190912

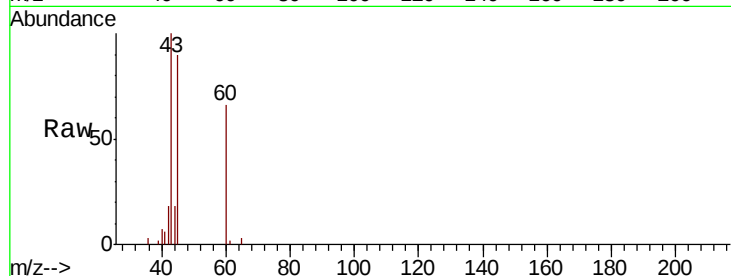
Tot Ion: 43 Resp: 31098

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

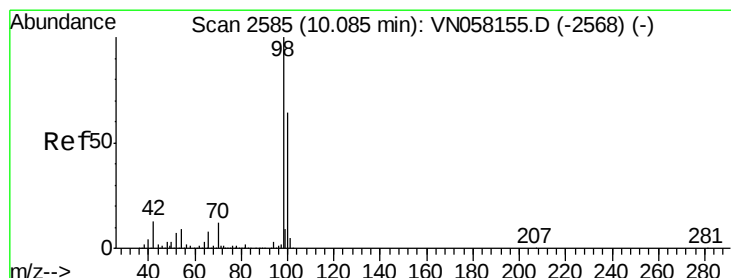
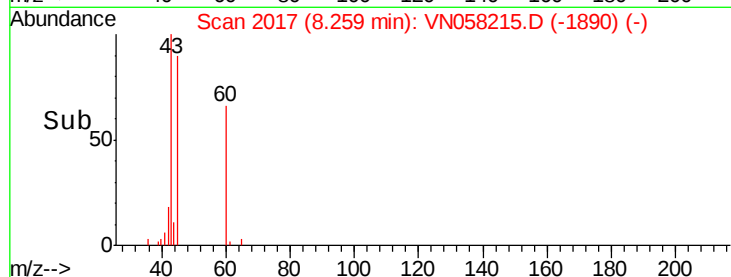
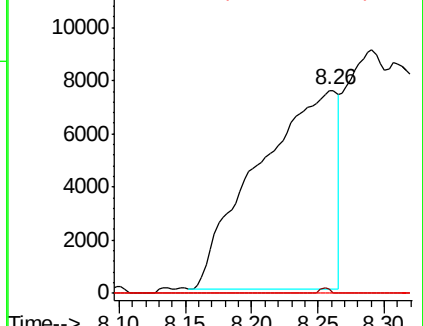
87 0.0 9.4 14.2#



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: 52.899 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058215.D

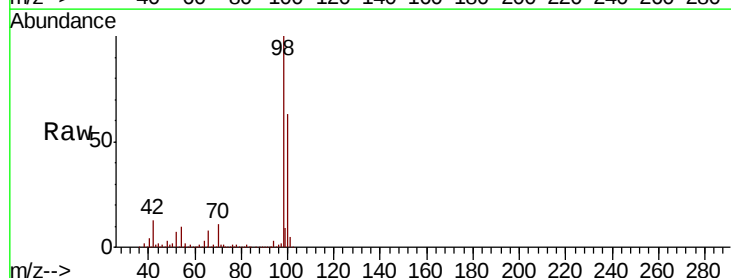
Acq: 19 Sep 2019 19:38

Tgt Ion: 98 Resp: 1046402

Ion Ratio Lower Upper

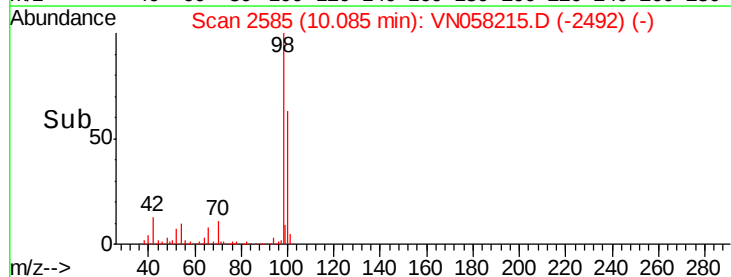
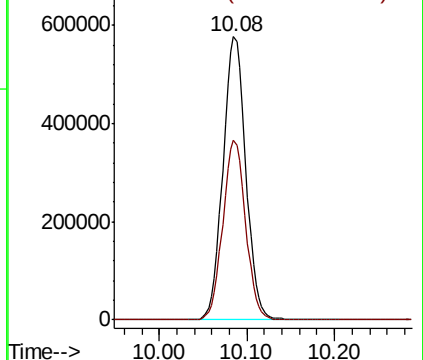
98 100

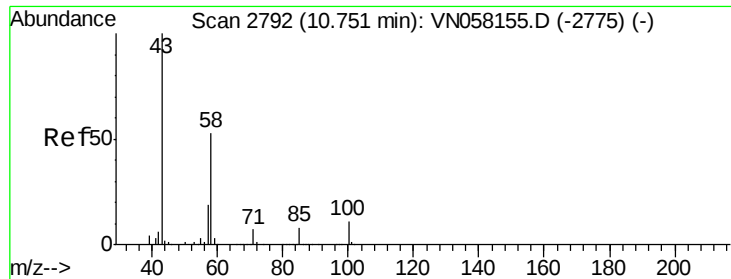
100 63.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

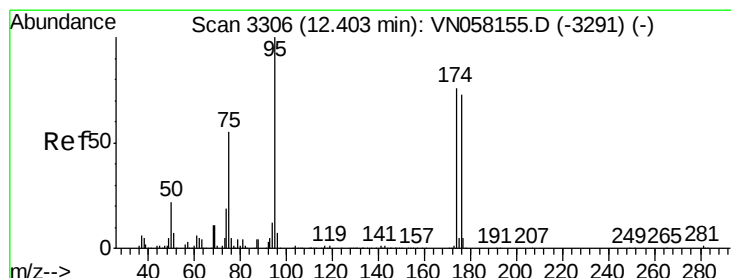
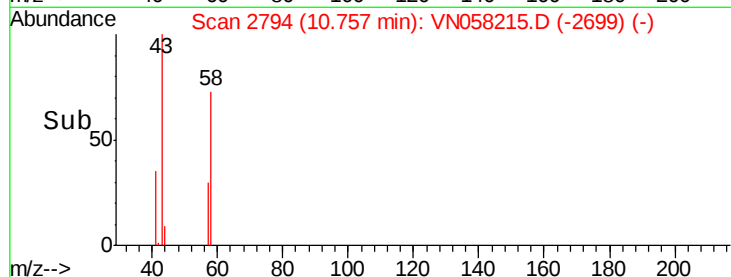
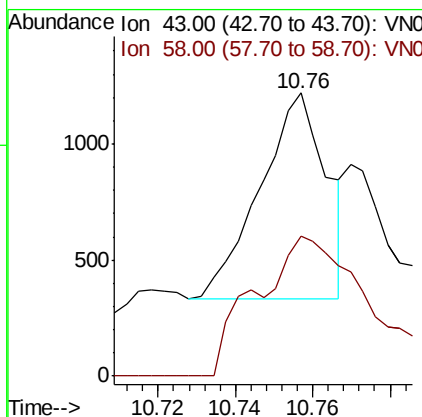
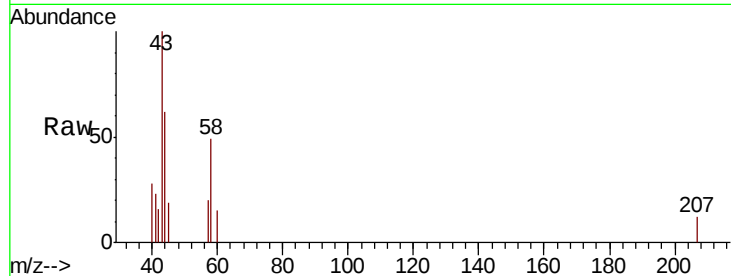




#59
2-Hexanone
Concen: 0.229 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN058215.D
Acq: 19 Sep 2019 19:38

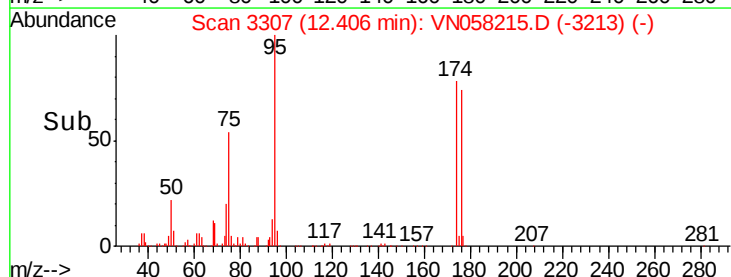
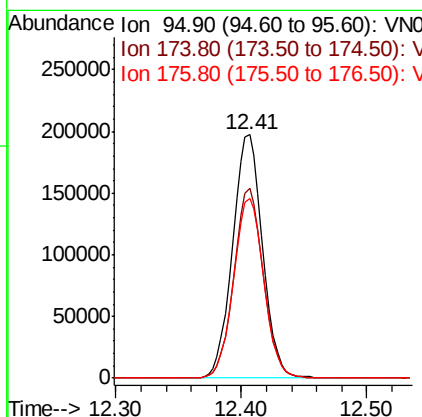
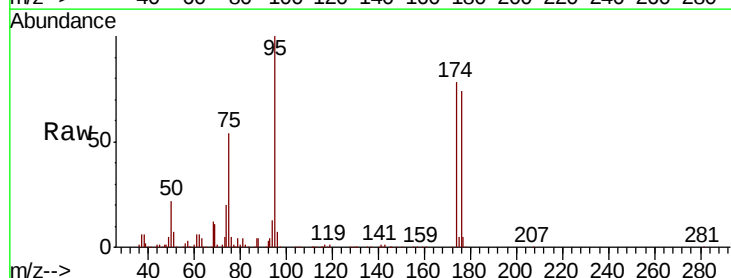
Instrument :
MSVOA_N
ClientSampleId :
RE123D3-20190912

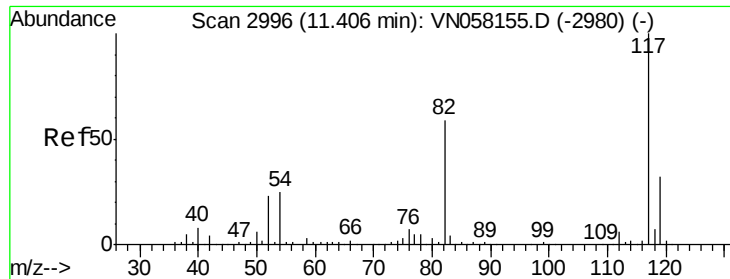
Tot Ion: 43 Resp: 1053
Ion Ratio Lower Upper
43 100
58 110.4 26.0 78.0#



#62
4-Bromofluorobenzene
Concen: 44.421 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058215.D
Acq: 19 Sep 2019 19:38

Tgt Ion: 95 Resp: 326403
Ion Ratio Lower Upper
95 100
174 76.7 0.0 152.2
176 74.8 0.0 148.0

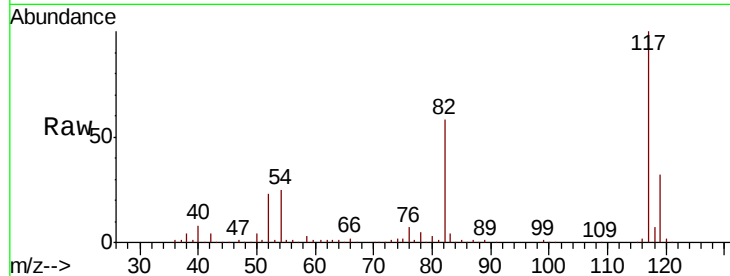




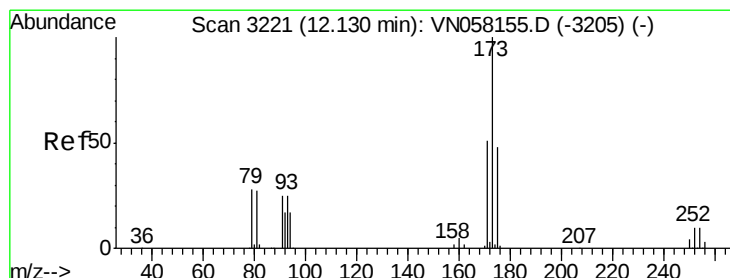
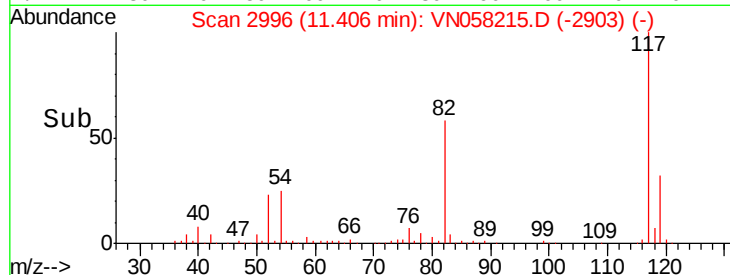
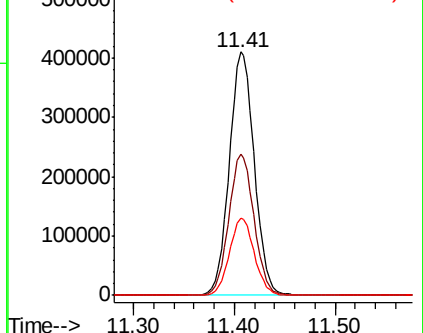
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058215.D
Acq: 19 Sep 2019 19:38

Instrument :
MSVOA_N
ClientSampleId :
RE123D3-20190912

Tot Ion:117 Resp: 709697
Ion Ratio Lower Upper
117 100
82 58.3 46.9 70.3
119 32.0 25.3 37.9

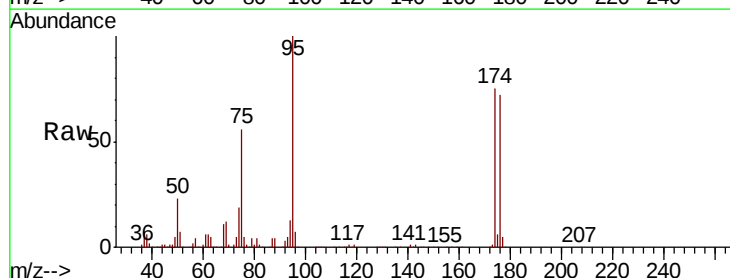


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

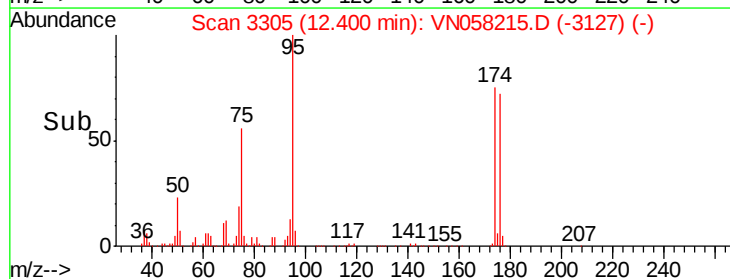
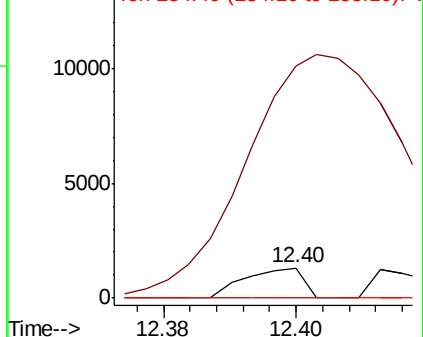


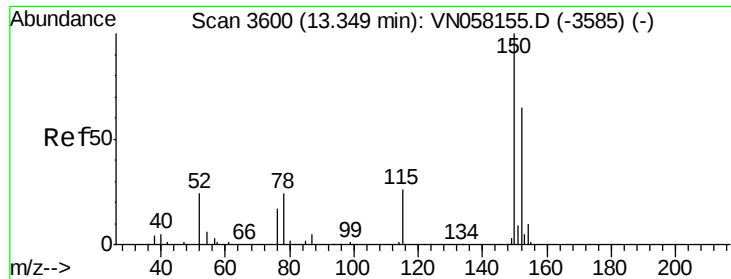
#71
Bromoform
Concen: 3.817 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN058215.D
Acq: 19 Sep 2019 19:38

Tgt Ion:173 Resp: 802
Ion Ratio Lower Upper
173 100
175 1958.1 24.2 72.6#
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# 3600

Delta R.T. -0.00 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

RE123D3-20190912

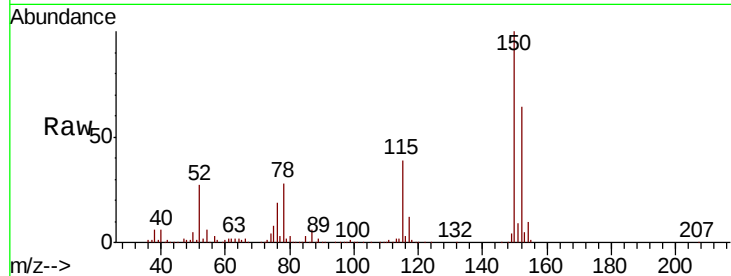
Tot Ion:152 Resp: 286942

Ion Ratio Lower Upper

152 100

115 60.6 30.1 90.3

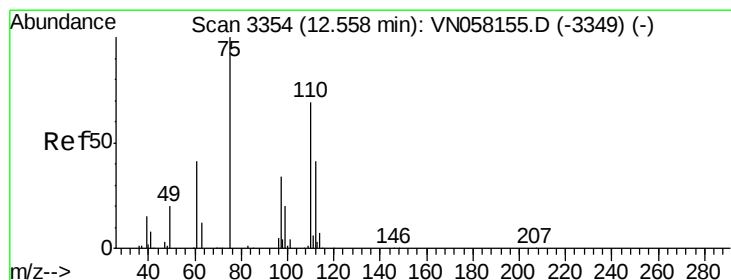
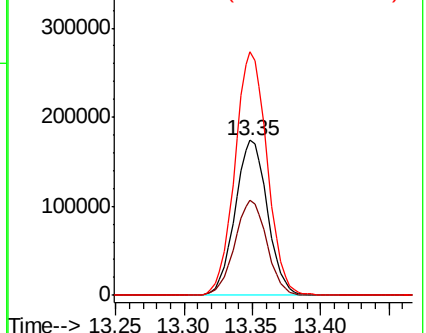
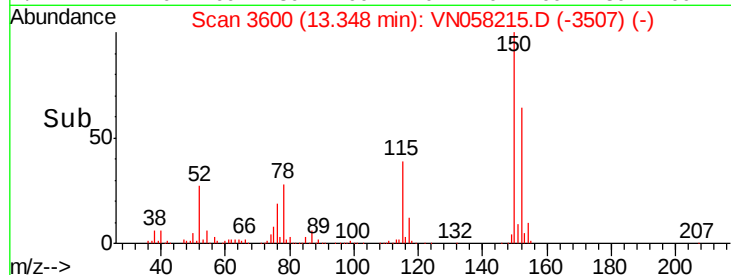
150 156.4 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 35.269 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058215.D

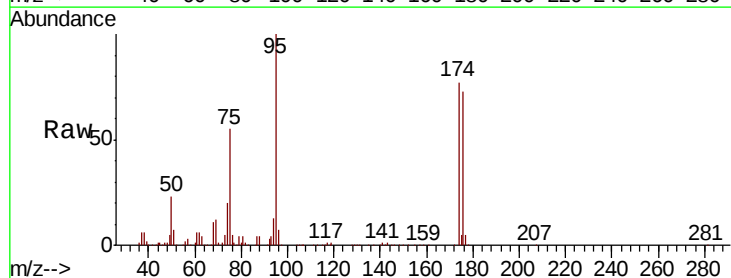
Acq: 19 Sep 2019 19:38

Tgt Ion: 75 Resp: 181118

Ion Ratio Lower Upper

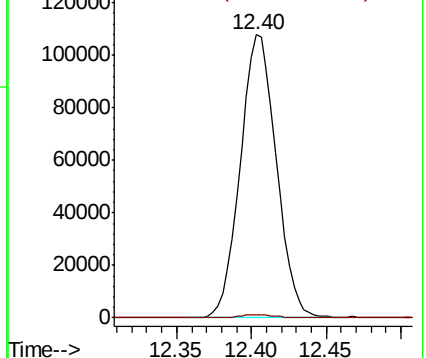
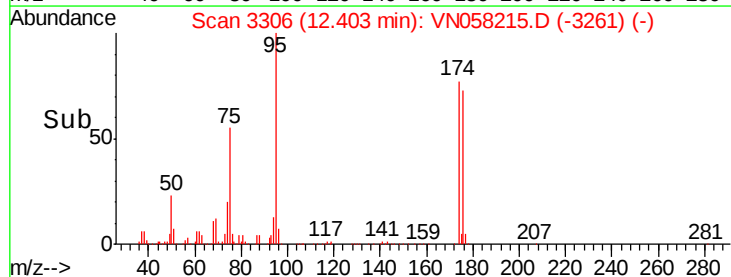
75 100

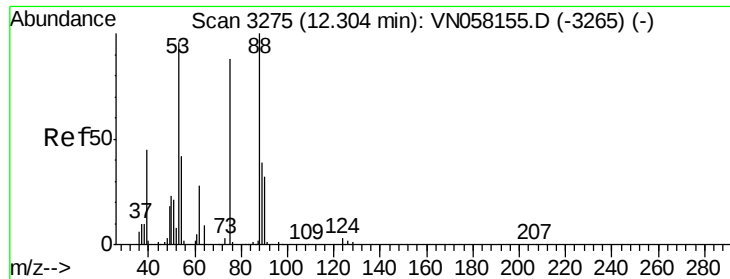
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 98.615 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

RE123D3-20190912

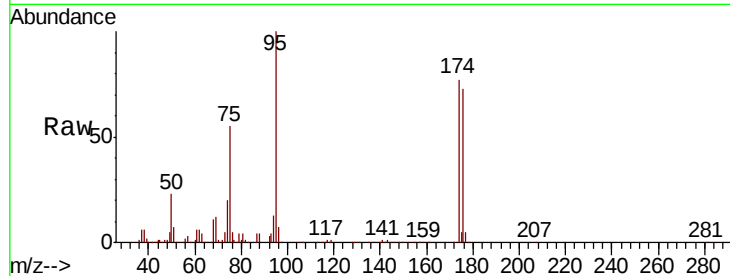
Tot Ion: 75 Resp: 181118

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

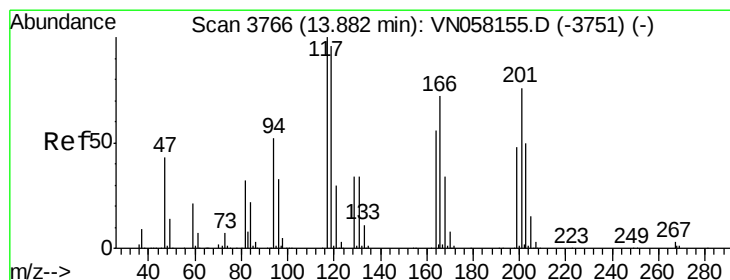
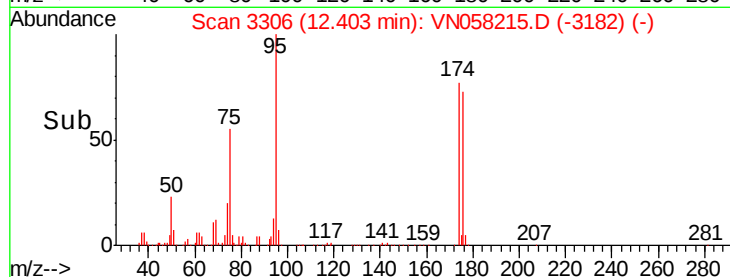
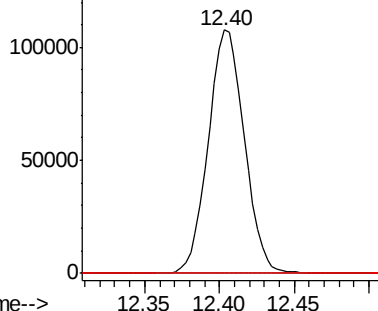
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058215.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN058215.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058215.D (-3306) (-)



#90

Hexachloroethane

Concen: 2.847 ug/l

RT: 14.00 min Scan# 3804

Delta R.T. 0.12 min

Lab File: VN058215.D

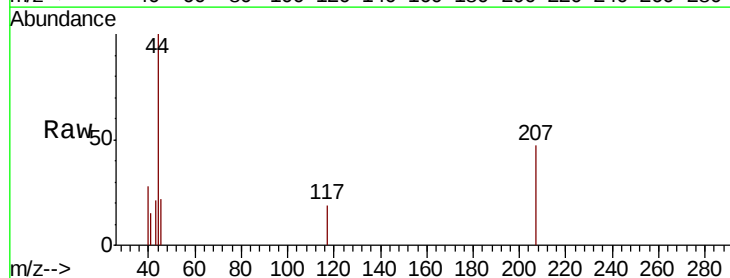
Acq: 19 Sep 2019 19:38

Tgt Ion: 117 Resp: 72

Ion Ratio Lower Upper

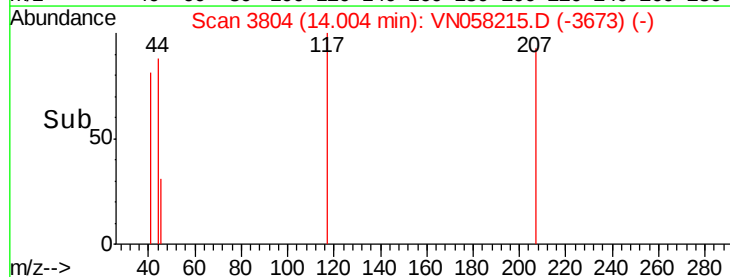
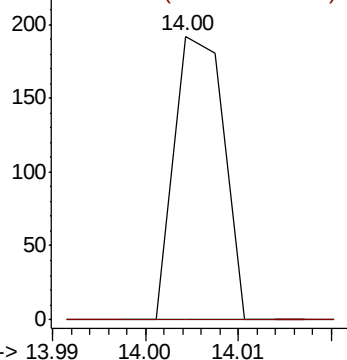
117 100

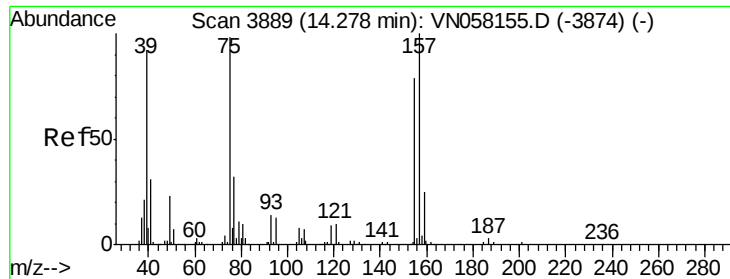
201 0.0 37.5 112.5#



Abundance Ion 116.80 (116.50 to 117.50): VN058215.D (-3804) (-)

Ion 200.70 (200.40 to 201.40): VN058215.D (-3804) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.239 ug/l

RT: 14.26 min Scan# 3883

Delta R.T. -0.02 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

RE123D3-20190912

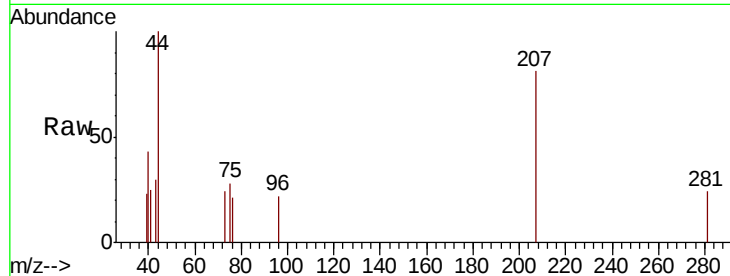
Tot Ion: 75 Resp: 259

Ion Ratio Lower Upper

75 100

155 0.0 38.3 114.8#

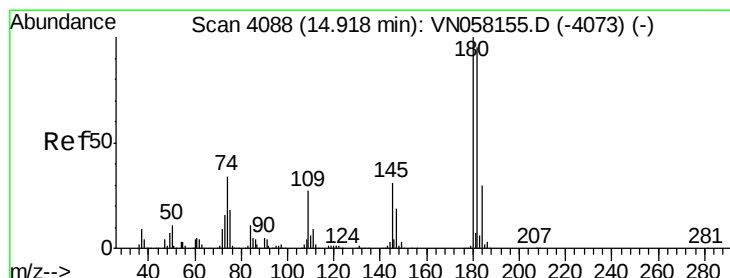
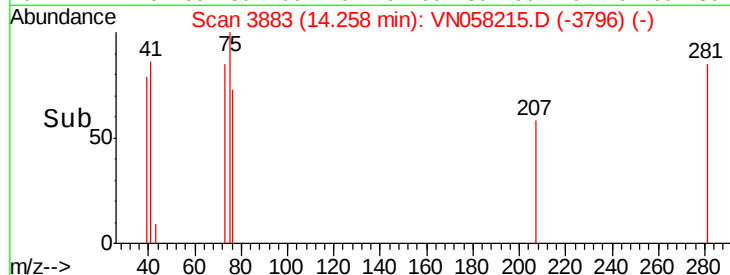
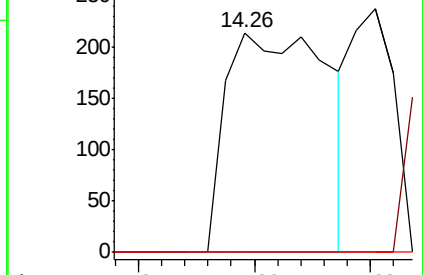
157 0.0 48.0 144.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058215.D (-3796) (-)

Ion 154.80 (154.50 to 155.50): VN058215.D (-3796) (-)

Ion 156.80 (156.50 to 157.50): VN058215.D (-3796) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.594 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.00 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

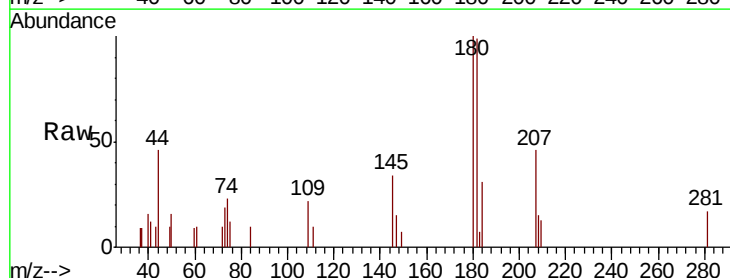
Tgt Ion: 180 Resp: 3140

Ion Ratio Lower Upper

180 100

182 101.5 47.8 143.3

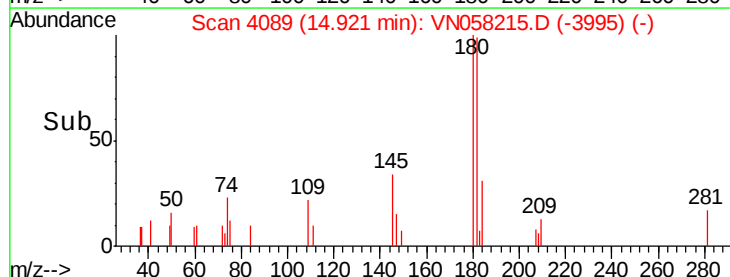
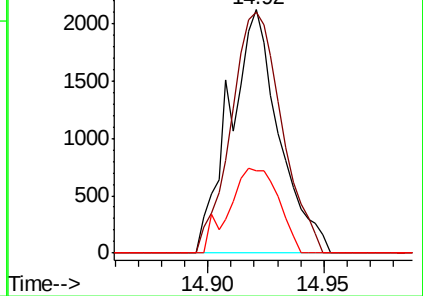
145 34.8 15.4 46.4

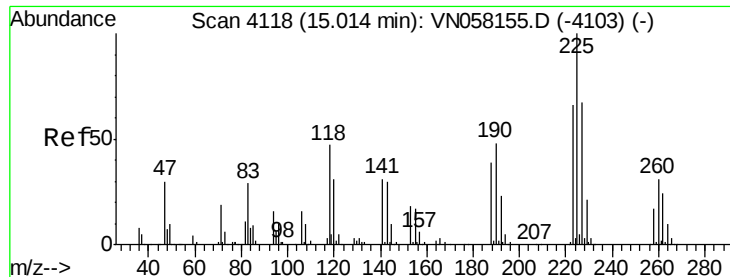


Abundance Ion 179.80 (179.50 to 180.50): VN058215.D (-3995) (-)

Ion 181.80 (181.50 to 182.50): VN058215.D (-3995) (-)

Ion 144.80 (144.50 to 145.50): VN058215.D (-3995) (-)





#94

Hexachlorobutadiene

Concen: 0.253 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

RE123D3-20190912

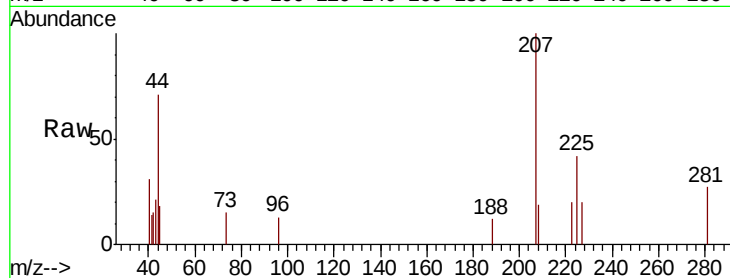
Tot Ion:225 Resp: 646

Ion Ratio Lower Upper

225 100

223 32.8 32.6 97.7

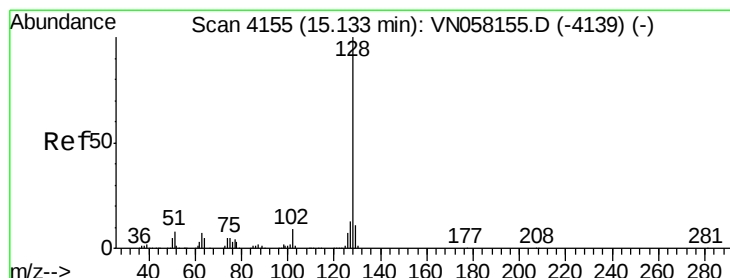
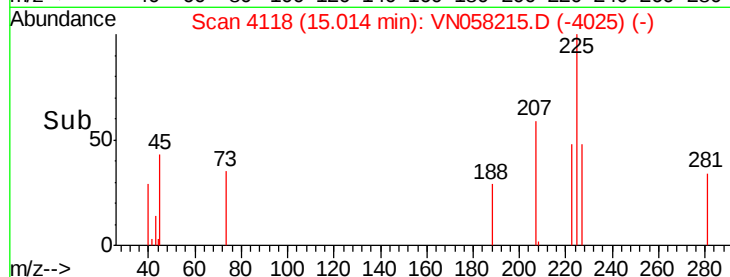
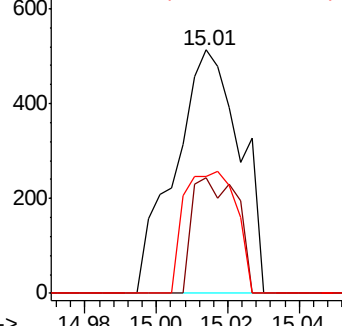
227 40.1 33.0 99.0



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: 1.063 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058215.D

Acq: 19 Sep 2019 19:38

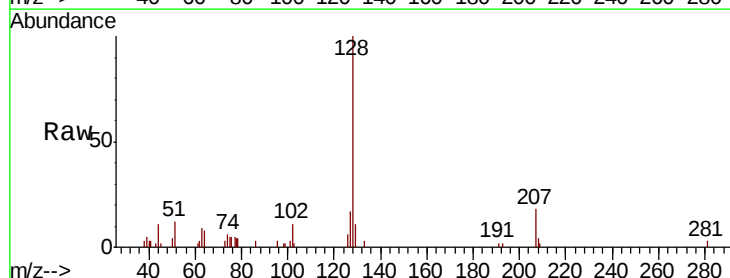
Tgt Ion:128 Resp: 14570

Ion Ratio Lower Upper

128 100

127 15.9 10.2 15.2#

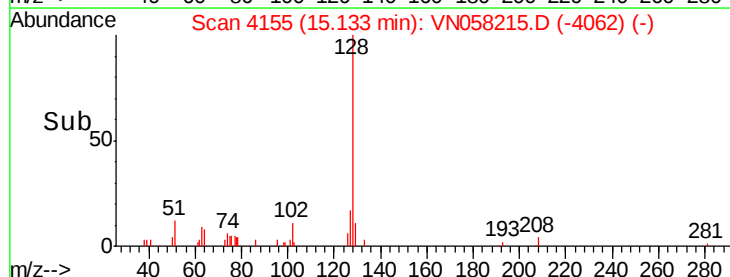
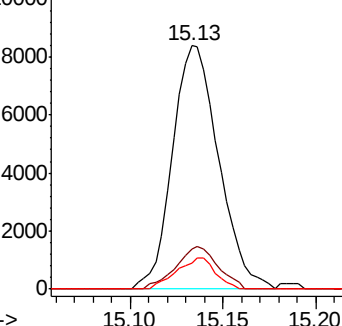
129 10.7 8.6 12.8

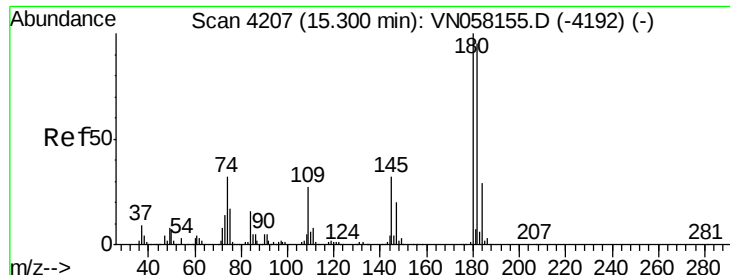


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

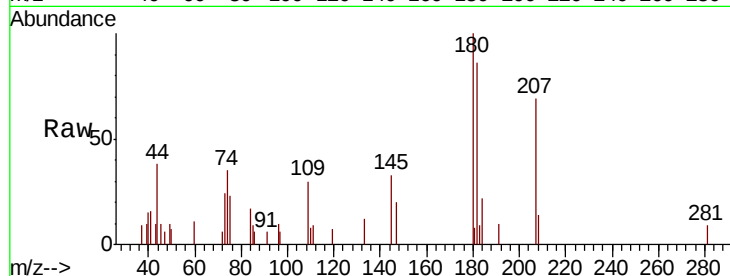




#96
 1,2,3-Trichlorobenzene
 Concen: 0.809 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN058215.D
 Acq: 19 Sep 2019 19:38

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D3-20190912

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.3	47.4	142.2
145	32.3	16.1	48.2



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

