

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092019\
 Data File : VN058247.D
 Acq On : 20 Sep 2019 14:09
 Operator : JC/SP
 Sample : K4974-11
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE109D2-20190917

Quant Time: Sep 20 23:48:47 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	505676	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	811068	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	687038	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	279889	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	355332	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
35) Dibromofluoromethane	7.57	113	249922	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
50) Toluene-d8	10.08	98	1019990	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.41	95	323180	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	

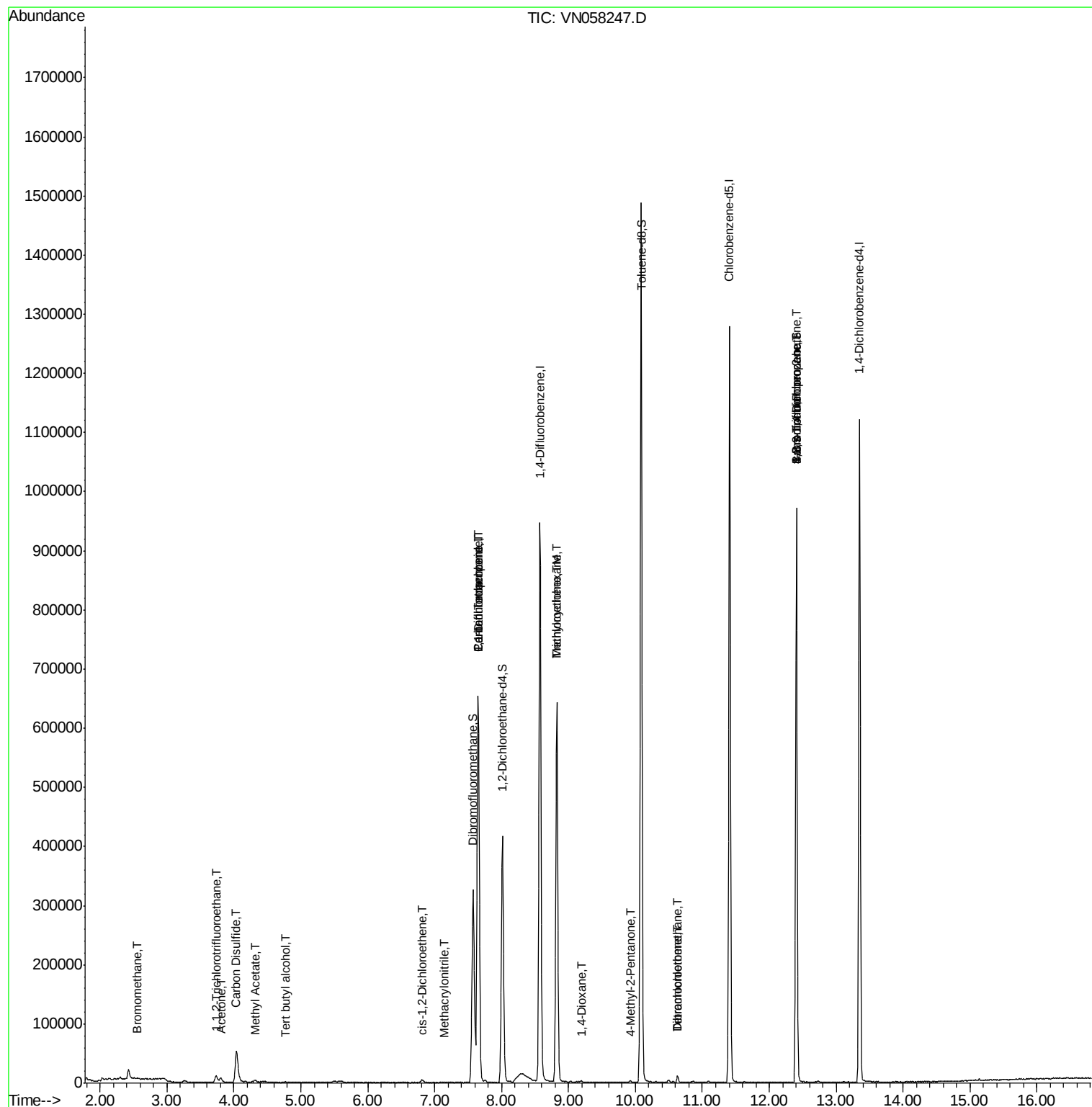
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2029	Below Cal		89
5) Bromomethane	2.55	94	265	0.863 ug/l #		66
6) Chloroethane	2.68	64	65	Below Cal #		44
9) 1,1,2-Trichlorotrifluoroet	3.74	101	6163	1.508 ug/l		89
11) Tert butyl alcohol	4.76	59	446	0.532 ug/l #		71
16) Acetone	3.80	43	13194	5.519 ug/l		89
17) Carbon Disulfide	4.02	76	193	0.315 ug/l #		74
18) Methyl Acetate	4.31	43	3080	0.490 ug/l		92
20) Methylene Chloride	4.54	84	354	Below Cal #		13
21) trans-1,2-Dichloroethene	5.08	96	72	Below Cal #		1
27) cis-1,2-Dichloroethene	6.81	96	1235	0.241 ug/l		41
31) Cyclohexane	7.64	56	13077	Below Cal #		29
36) 1,1-Dichloropropene	7.65	75	42841	7.324 ug/l #		52
38) Carbon Tetrachloride	7.65	117	51684	8.790 ug/l #		15
39) Methylcyclohexane	8.82	83	2777	0.561 ug/l #		1
41) Methacrylonitrile	7.14	41	68	0.933 ug/l #		100
44) Trichloroethene	8.82	130	222282	50.845 ug/l		99
49) 1,4-Dioxane	9.19	88	1042	12.330 ug/l #		72
51) 4-Methyl-2-Pentanone	9.92	43	1410	0.234 ug/l #		37
60) Dibromochloromethane	10.63	129	2075	0.434 ug/l #		11
64) Tetrachloroethene	10.63	164	2113	0.631 ug/l		91
71) Bromoform	12.40	173	466	3.728 ug/l #		29
76) 1,2,3-Trichloropropane	12.40	75	176091	35.154 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	176091	98.313 ug/l #		5

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

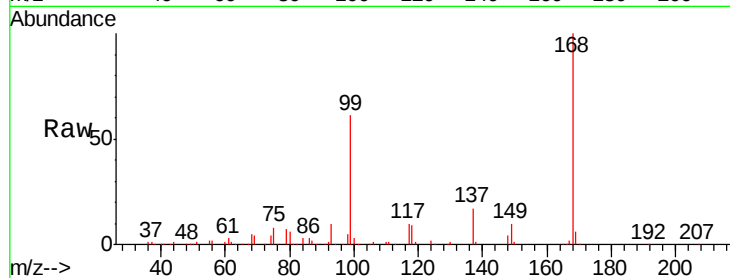
RE109D2-20190917

Tgt Ion:168 Resp: 505676

Ion Ratio Lower Upper

168 100

99 61.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

250000

200000

150000

100000

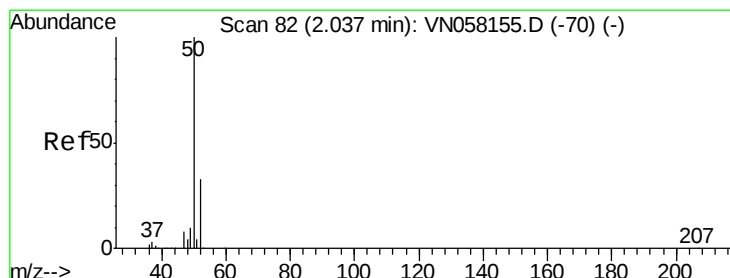
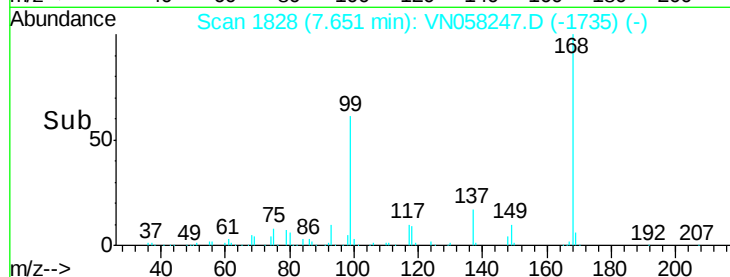
50000

0

7.65

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058247.D

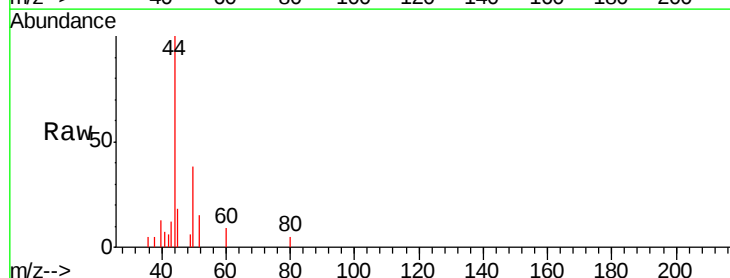
Acq: 20 Sep 2019 14:09

Tgt Ion: 50 Resp: 2029

Ion Ratio Lower Upper

50 100

52 39.0 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

1500

1000

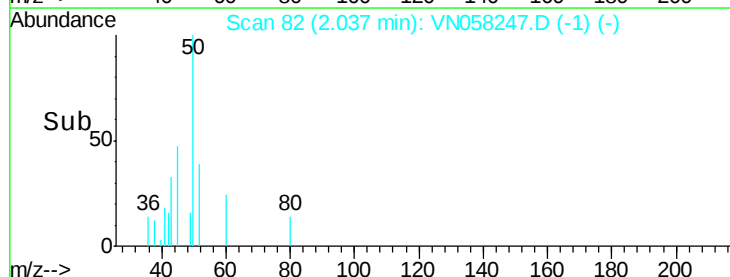
500

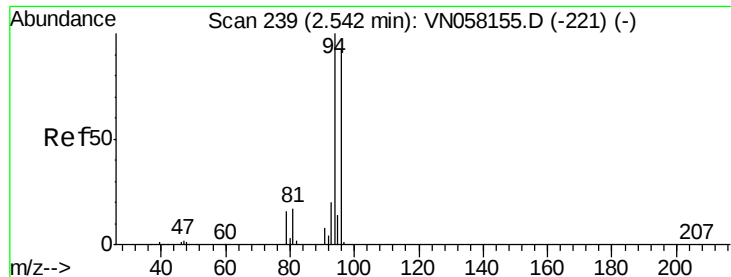
0

2.04

2.00 2.05

Time-->





#5

Bromomethane

Concen: 0.863 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

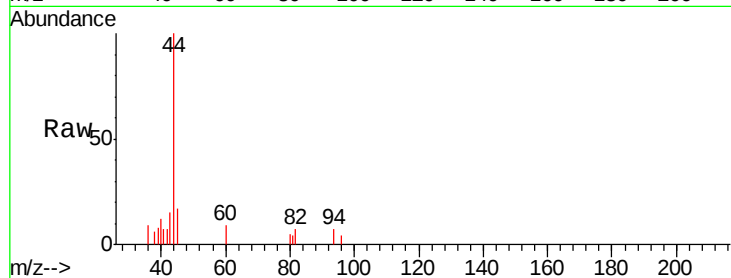
RE109D2-20190917

Tgt Ion: 94 Resp: 265

Ion Ratio Lower Upper

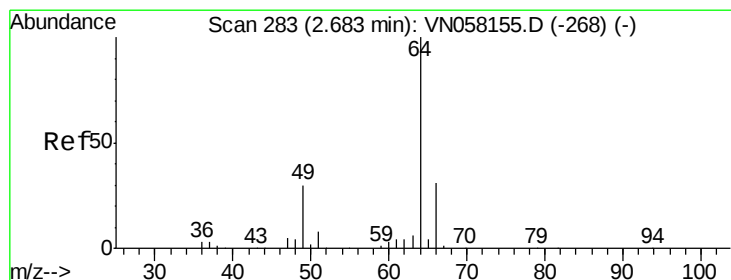
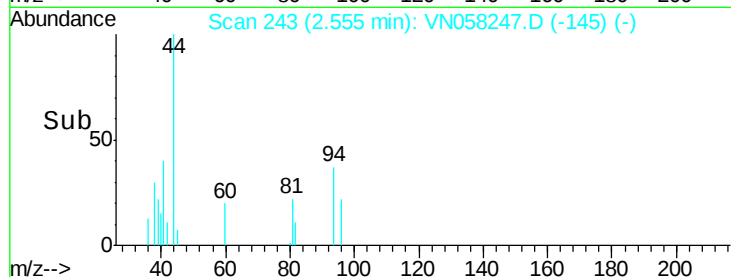
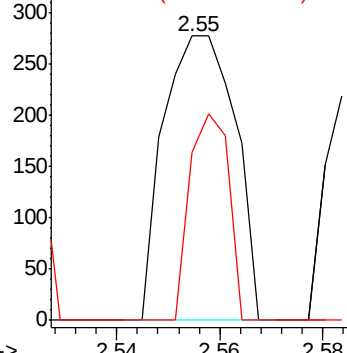
94 100

96 58.8 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: 2.68 min Scan# 282

Delta R.T. -0.00 min

Lab File: VN058247.D

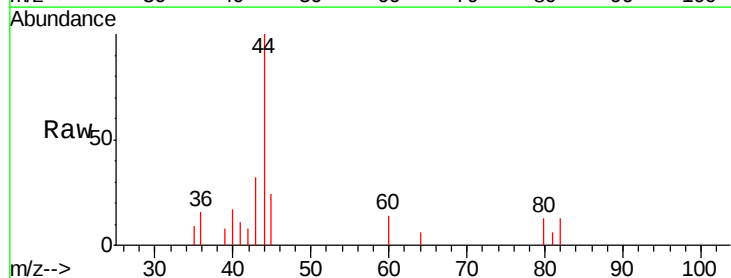
Acq: 20 Sep 2019 14:09

Tgt Ion: 64 Resp: 65

Ion Ratio Lower Upper

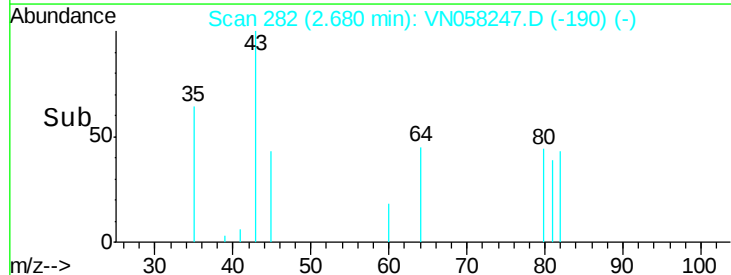
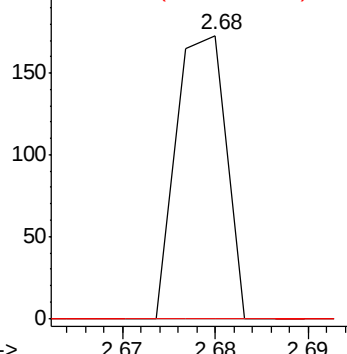
64 100

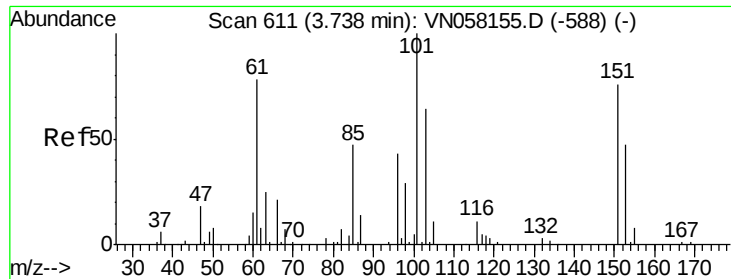
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.508 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

RE109D2-20190917

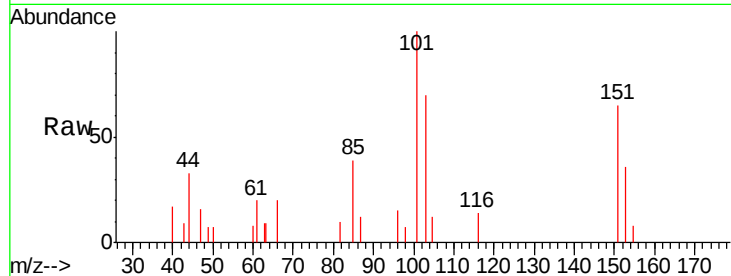
Tgt Ion:101 Resp: 6163

Ion Ratio Lower Upper

101 100

85 42.8 37.3 55.9

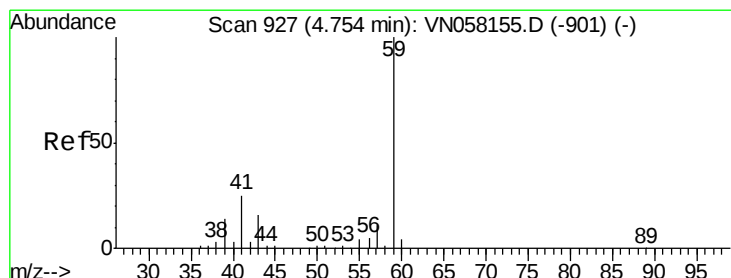
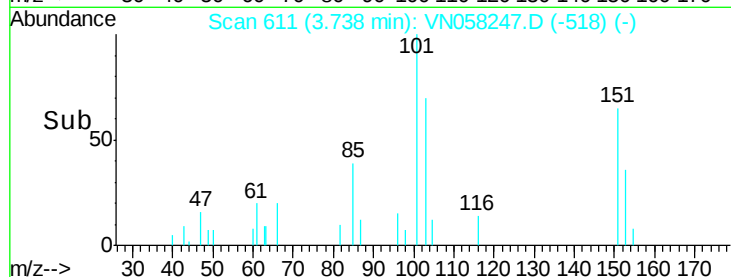
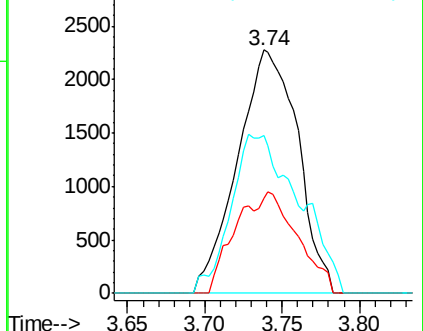
151 62.1 59.6 89.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.532 ug/l

RT: 4.76 min Scan# 929

Delta R.T. 0.01 min

Lab File: VN058247.D

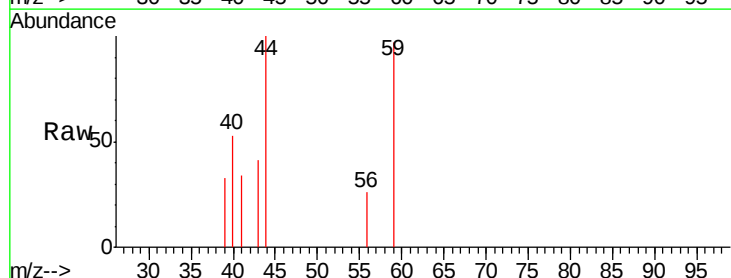
Acq: 20 Sep 2019 14:09

Tgt Ion: 59 Resp: 446

Ion Ratio Lower Upper

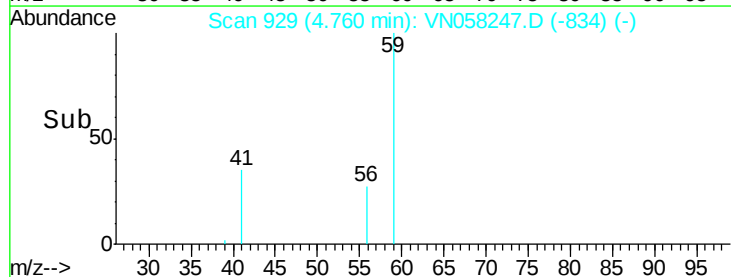
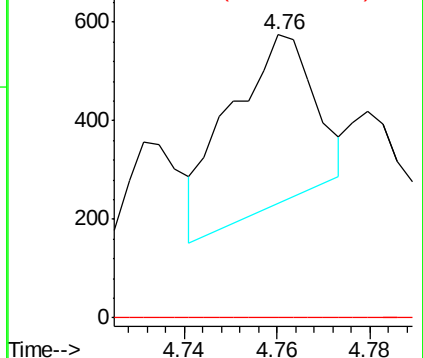
59 100

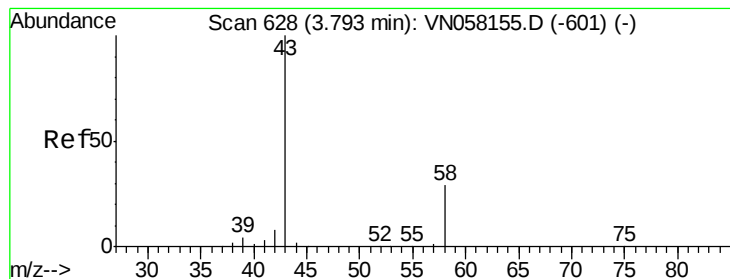
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 5.519 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

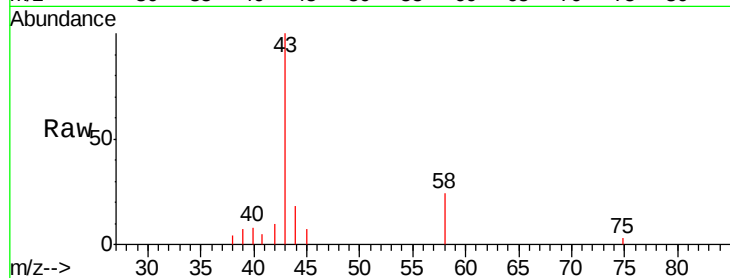
RE109D2-20190917

Tgt Ion: 43 Resp: 13194

Ion Ratio Lower Upper

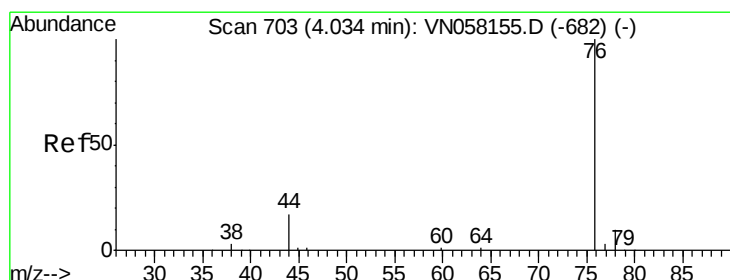
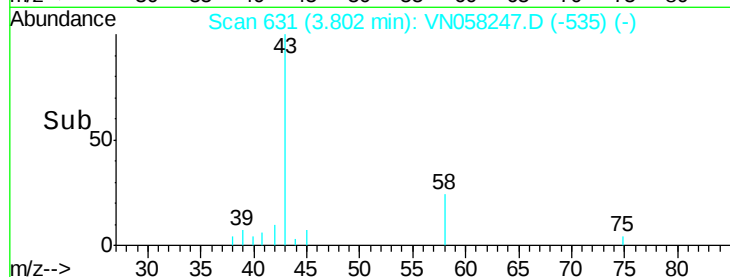
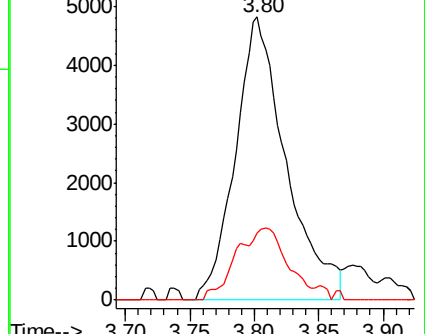
43 100

58 23.6 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: 0.315 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058247.D

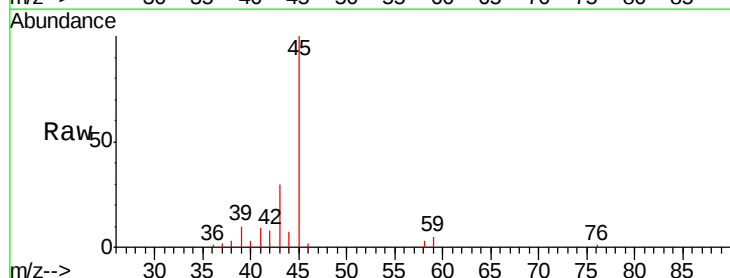
Acq: 20 Sep 2019 14:09

Tgt Ion: 76 Resp: 193

Ion Ratio Lower Upper

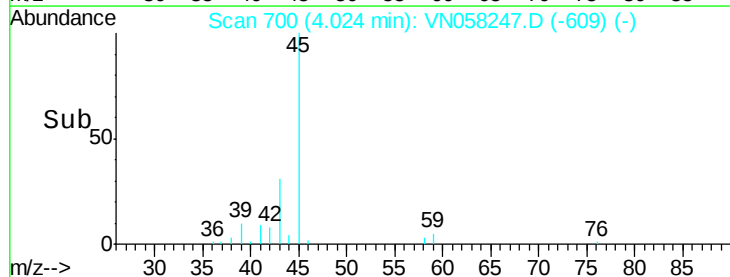
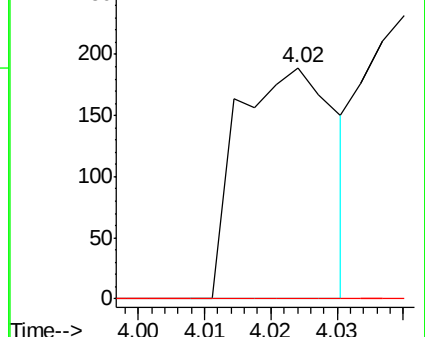
76 100

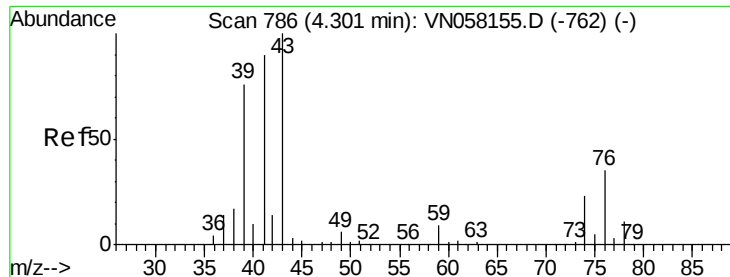
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

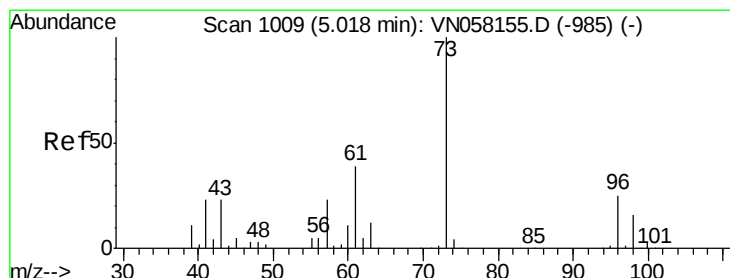
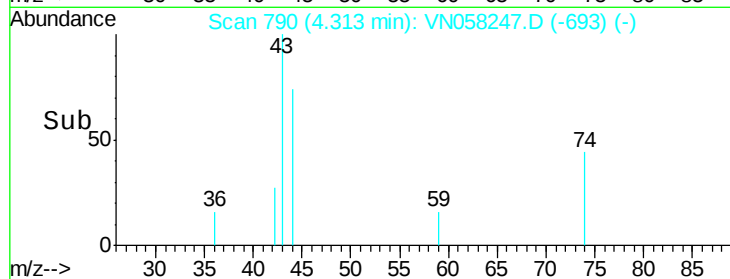
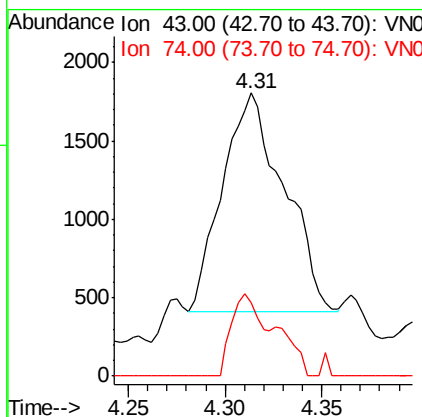
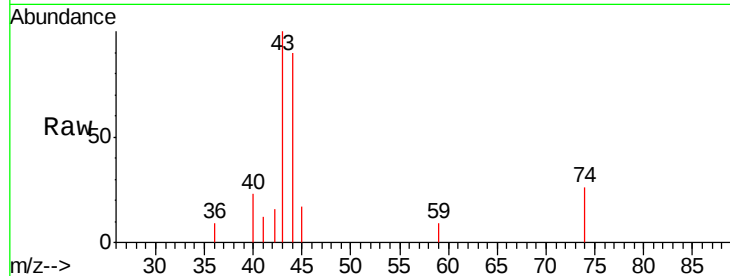




#18
Methyl Acetate
Concen: 0.490 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058247.D
Acq: 20 Sep 2019 14:09

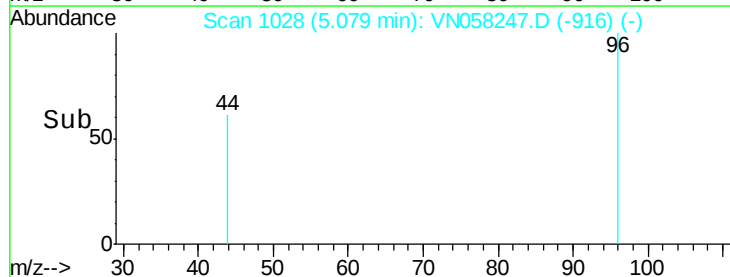
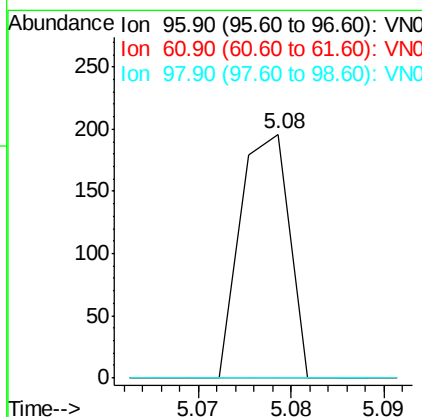
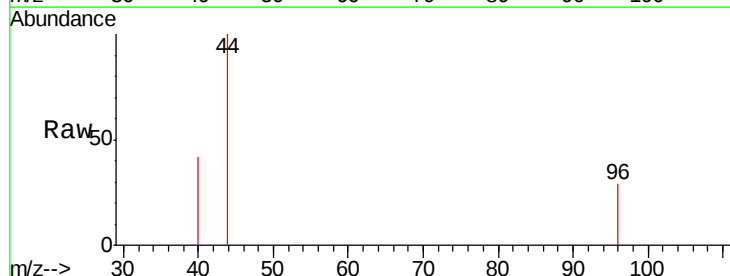
Instrument :
MSVOA_N
ClientSampleId :
RE109D2-20190917

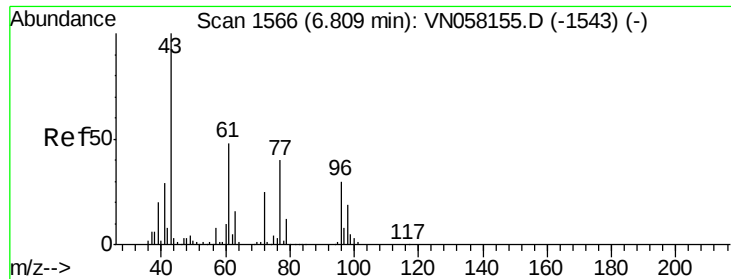
Tgt Ion: 43 Resp: 3080
Ion Ratio Lower Upper
43 100
74 18.6 18.0 27.0



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.08 min Scan# 1028
Delta R.T. 0.06 min
Lab File: VN058247.D
Acq: 20 Sep 2019 14:09

Tgt Ion: 96 Resp: 72
Ion Ratio Lower Upper
96 100
61 0.0 122.2 183.4#
98 0.0 49.9 74.9#

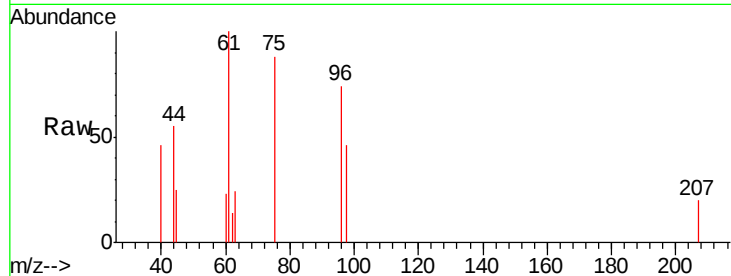




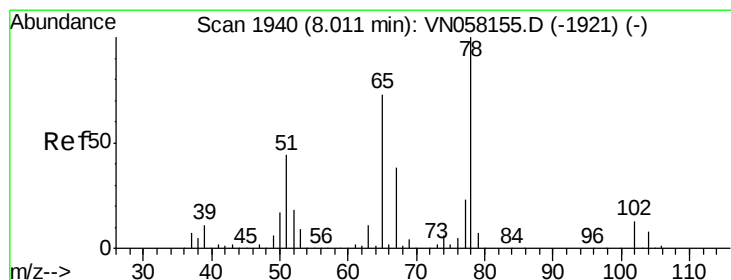
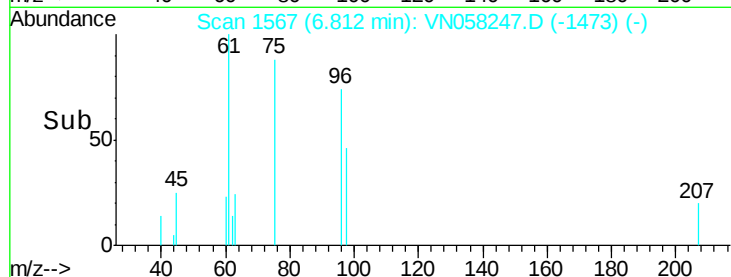
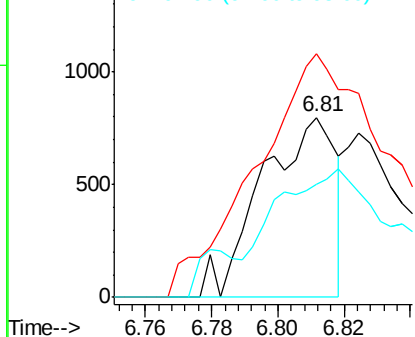
#27
 cis-1,2-Dichloroethene
 Concen: 0.241 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VN058247.D
 Acq: 20 Sep 2019 14:09

Instrument :
 MSVOA_N
 ClientSampleId :
 RE109D2-20190917

Tgt Ion: 96 Resp: 1235
 Ion Ratio Lower Upper
 96 100
 61 238.9 0.0 319.0
 98 107.0 0.0 126.6

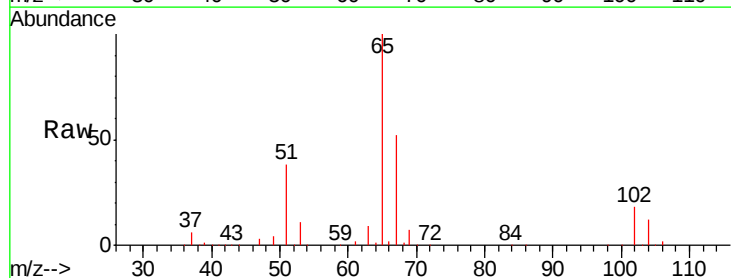


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

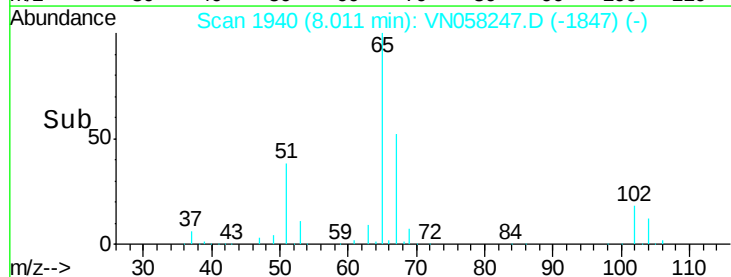
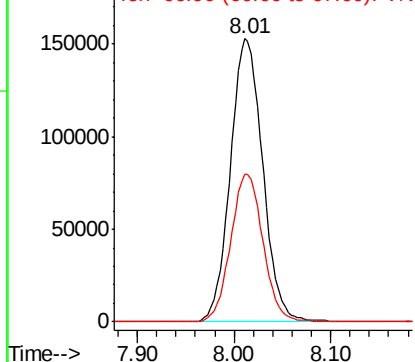


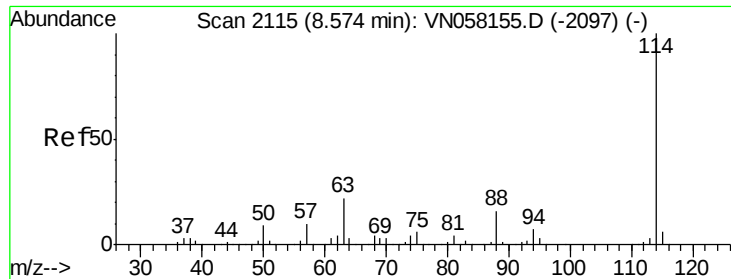
#33
 1,2-Dichloroethane-d4
 Concen: 50.451 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058247.D
 Acq: 20 Sep 2019 14:09

Tgt Ion: 65 Resp: 355332
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
 Ion 66.90 (66.60 to 67.60): VN0

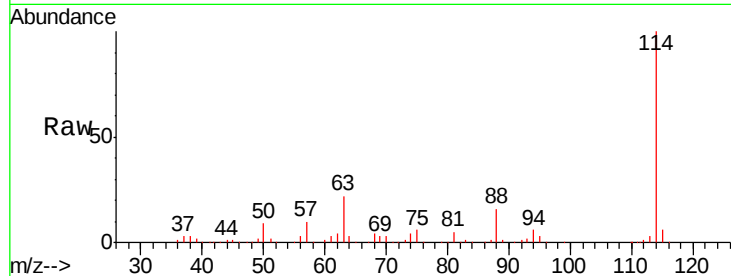




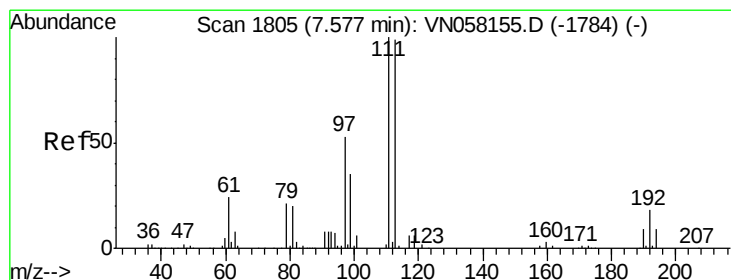
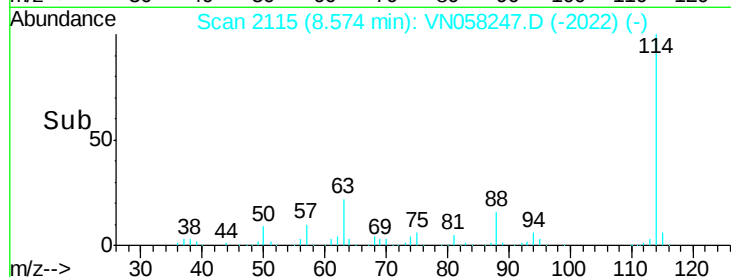
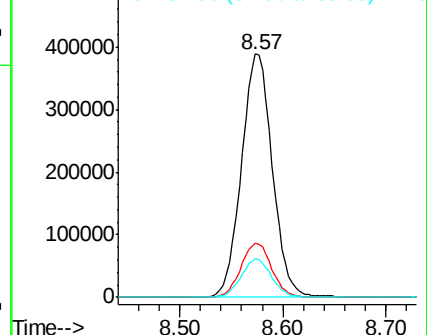
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. -0.00 min
Lab File: VN058247.D
Acq: 20 Sep 2019 14:09

Instrument :
MSVOA_N
ClientSampleId :
RE109D2-20190917

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.2
88	15.7	0.0	31.6

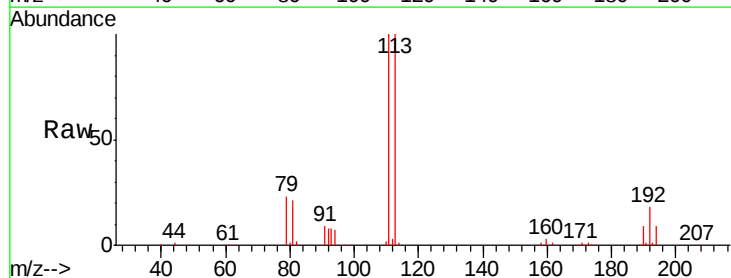


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

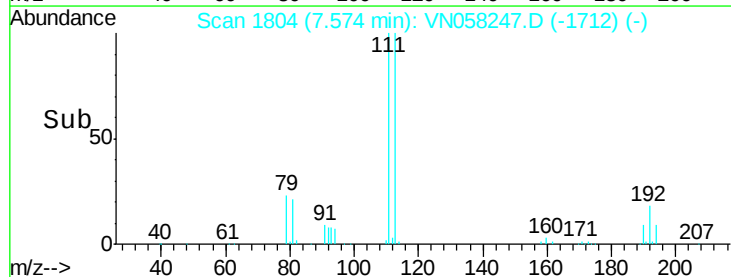
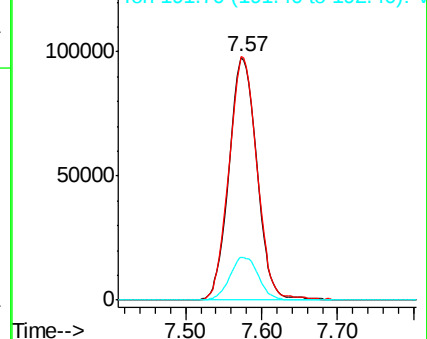


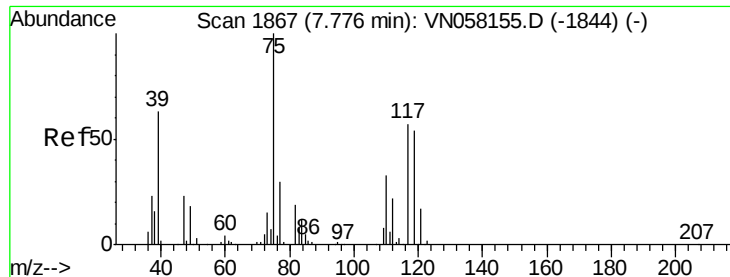
#35
Dibromofluoromethane
Concen: 50.688 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058247.D
Acq: 20 Sep 2019 14:09

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.8	122.6
192	18.2	14.5	21.7



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

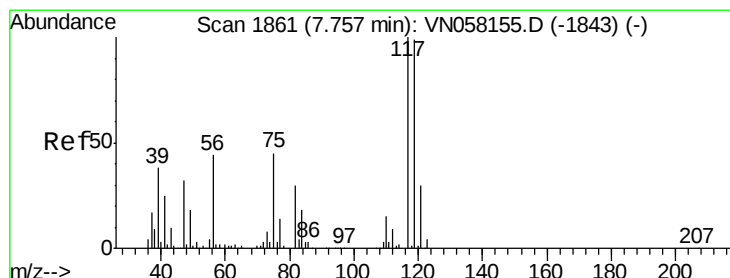
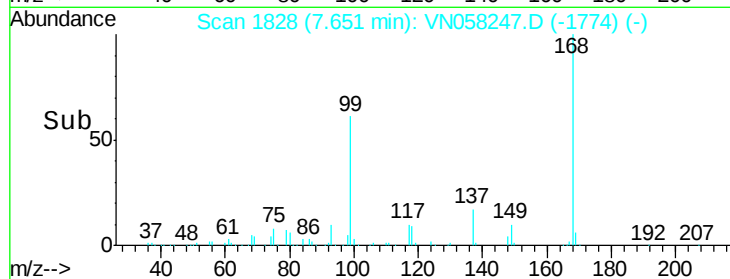
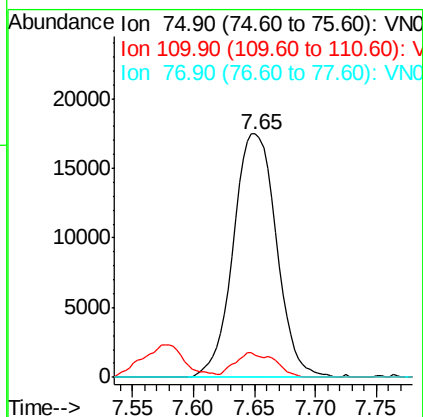
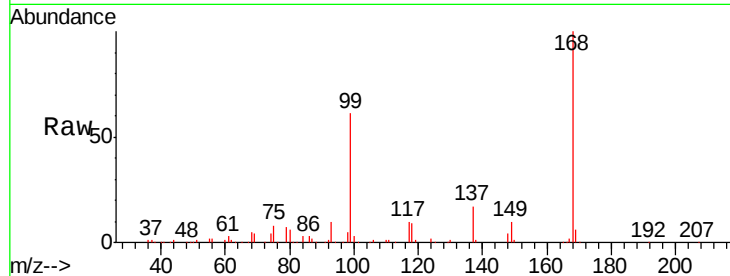




#36
 1,1-Dichloropropene
 Concen: 7.324 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058247.D
 Acq: 20 Sep 2019 14:09

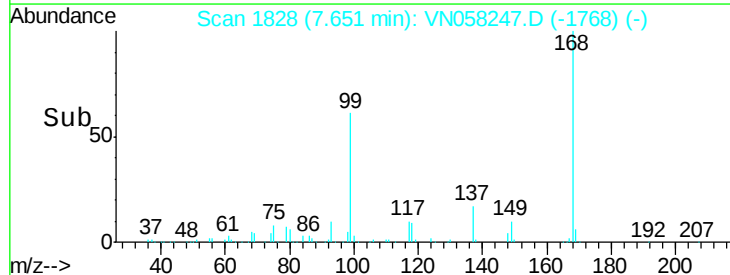
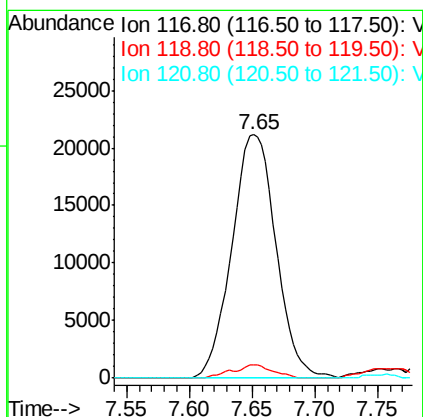
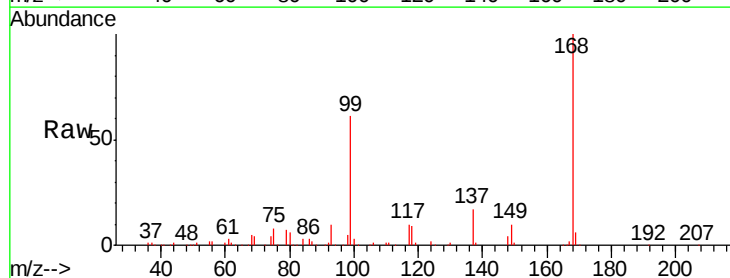
Instrument :
 MSVOA_N
 ClientSampleId :
 RE109D2-20190917

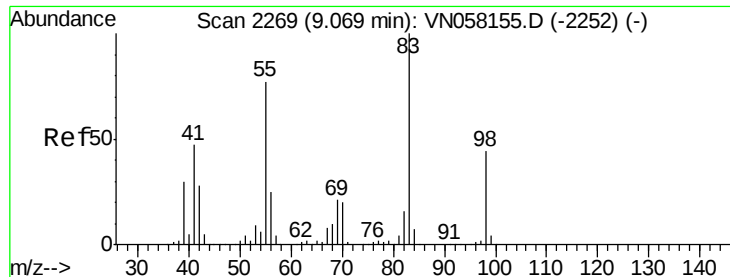
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.790 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058247.D
 Acq: 20 Sep 2019 14:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	78.6	117.8#
121	0.0	24.1	36.1#

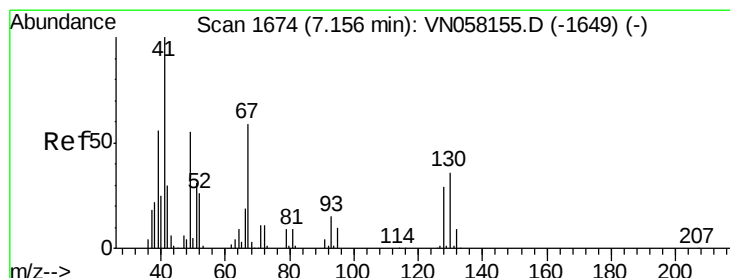
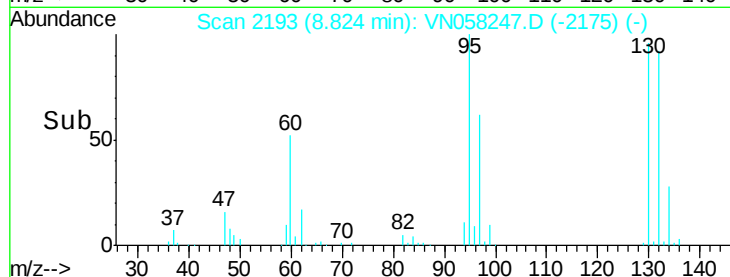
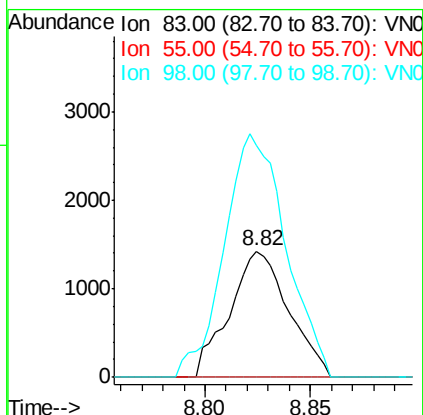
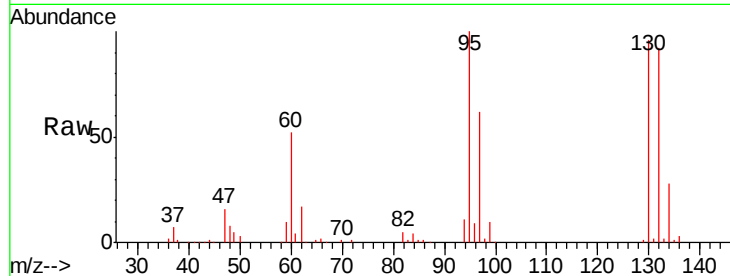




#39
Methylcyclohexane
Concen: 0.561 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.24 min
Lab File: VN058247.D
Acq: 20 Sep 2019 14:09

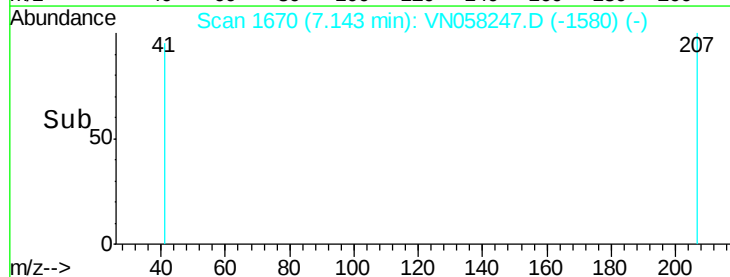
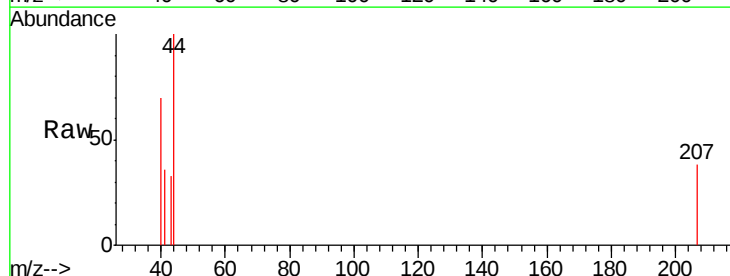
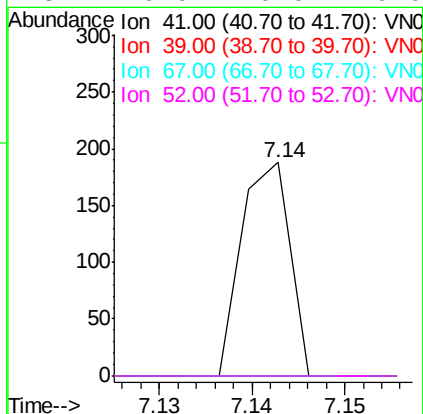
Instrument :
MSVOA_N
ClientSampleId :
RE109D2-20190917

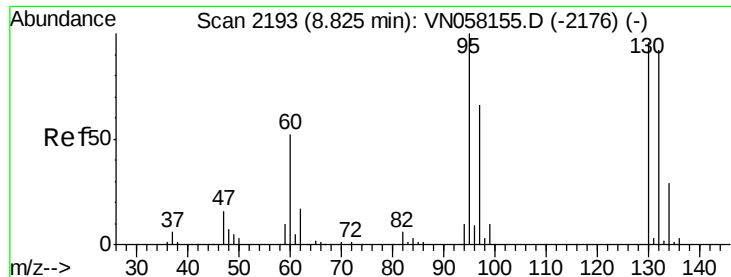
Tgt Ion: 83 Resp: 2777
Ion Ratio Lower Upper
83 100
55 0.0 61.9 92.9#
98 183.9 35.4 53.2#



#41
Methacrylonitrile
Concen: 0.933 ug/l
RT: 7.14 min Scan# 1670
Delta R.T. -0.01 min
Lab File: VN058247.D
Acq: 20 Sep 2019 14:09

Tgt Ion: 41 Resp: 68
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





#44

Trichloroethene

Concen: 50.845 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

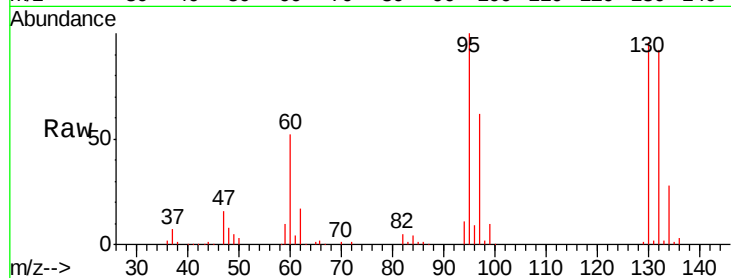
RE109D2-20190917

Tgt Ion:130 Resp: 222282

Ion Ratio Lower Upper

130 100

95 104.5 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO

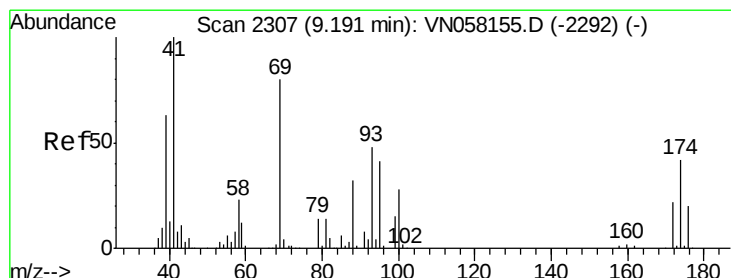
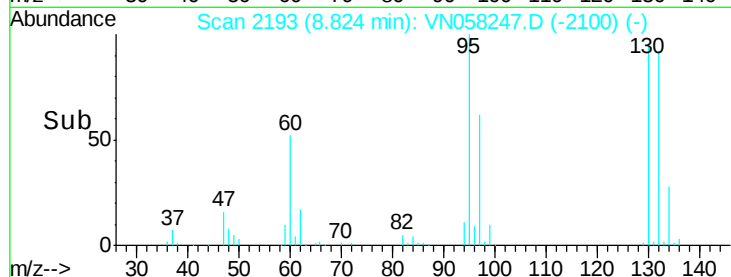
8.82

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 12.330 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. -0.00 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

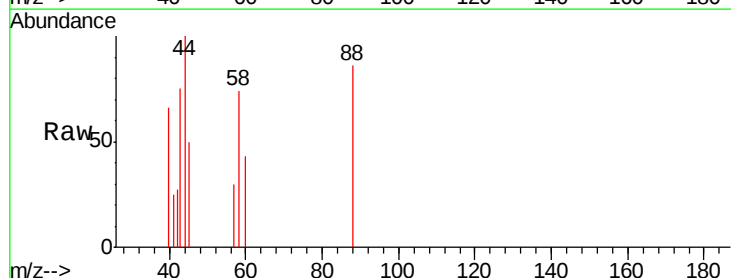
Tgt Ion: 88 Resp: 1042

Ion Ratio Lower Upper

88 100

43 41.4 27.8 41.8

58 98.5 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

9.19

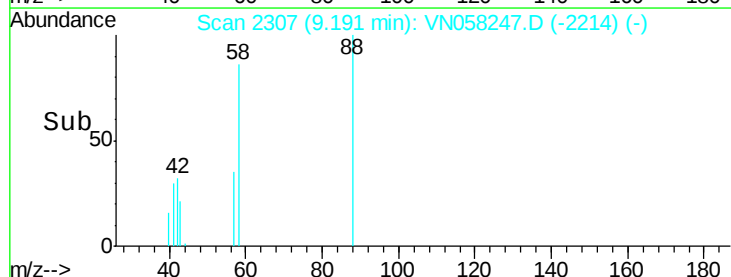
600

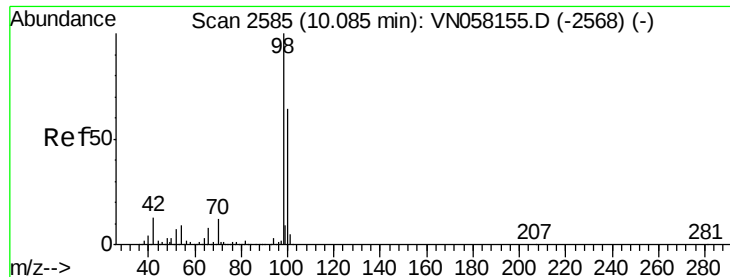
400

200

0

Time-->





#50

Toluene-d8

Concen: 53.095 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

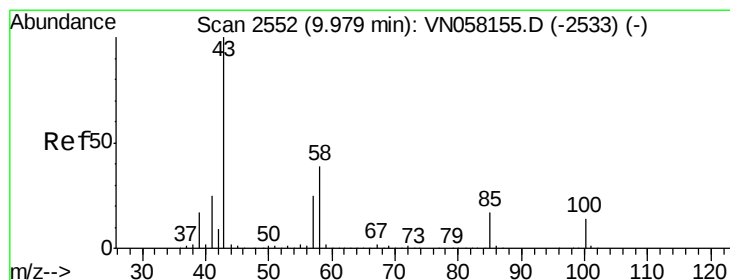
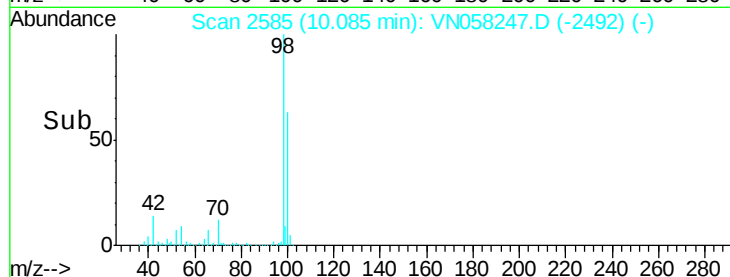
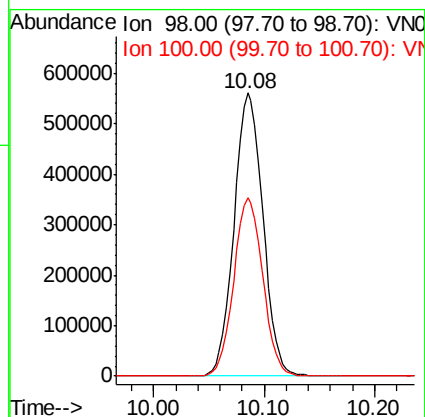
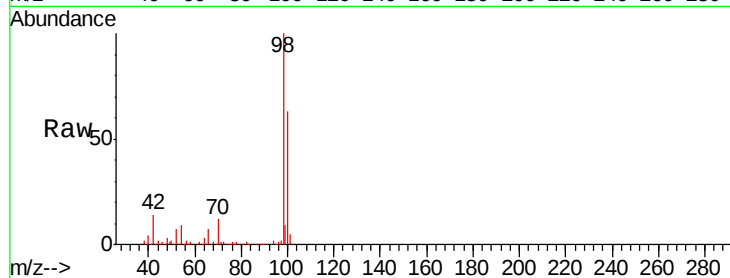
RE109D2-20190917

Tgt Ion: 98 Resp: 1019990

Ion Ratio Lower Upper

98 100

100 63.3 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.234 ug/l

RT: 9.92 min Scan# 2534

Delta R.T. -0.06 min

Lab File: VN058247.D

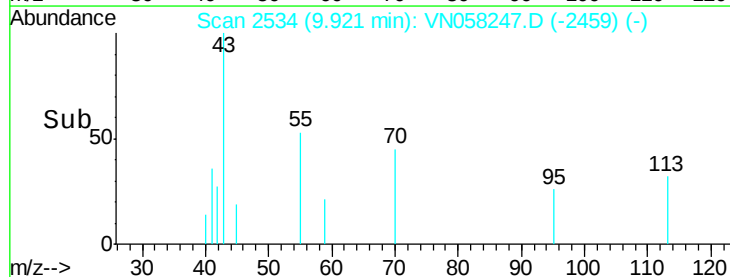
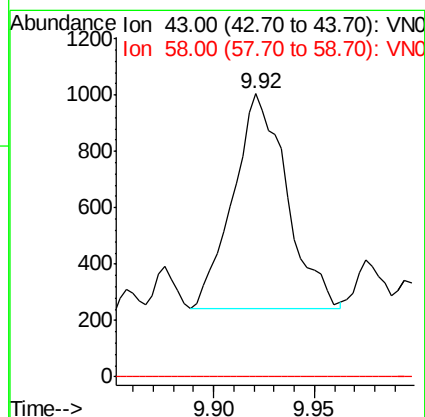
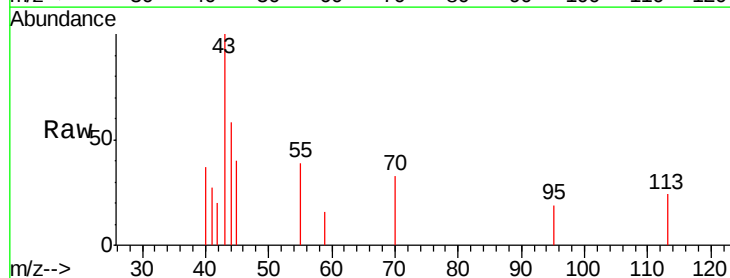
Acq: 20 Sep 2019 14:09

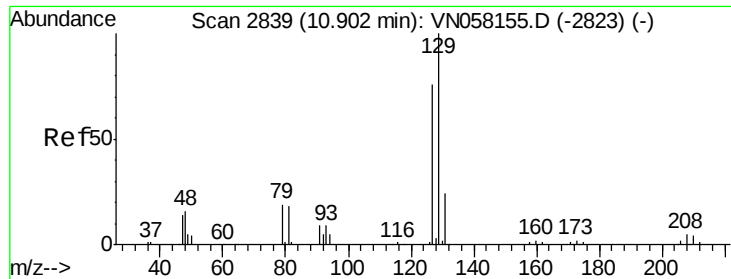
Tgt Ion: 43 Resp: 1410

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#

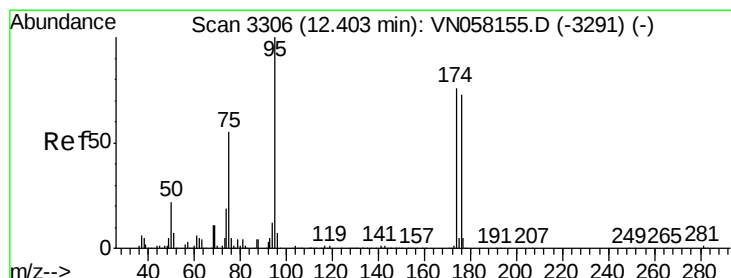
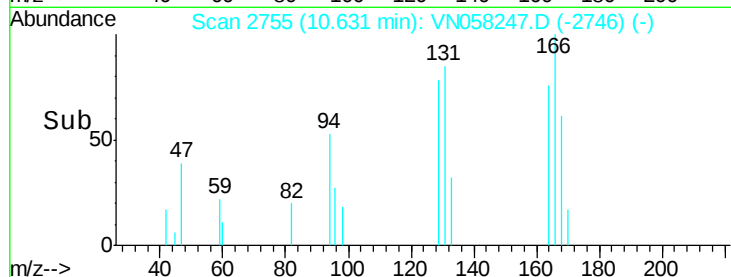
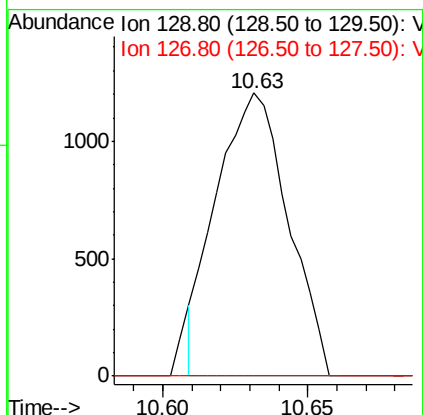
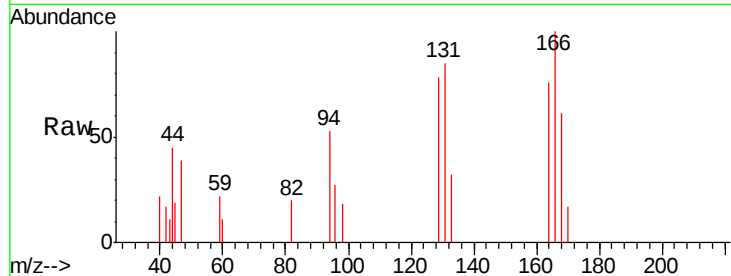




#60
 Dibromochloromethane
 Concen: 0.434 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. -0.27 min
 Lab File: VN058247.D
 Acq: 20 Sep 2019 14:09

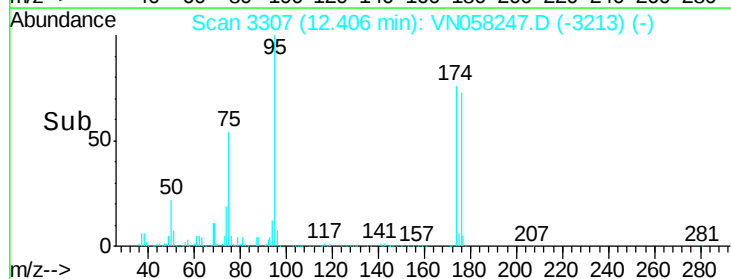
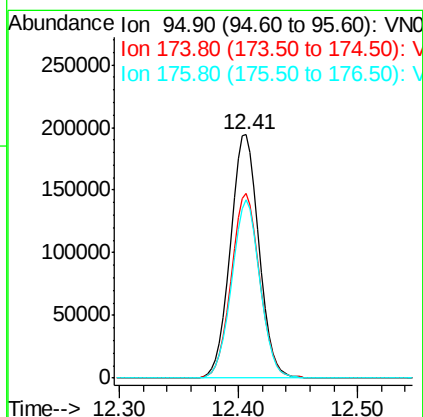
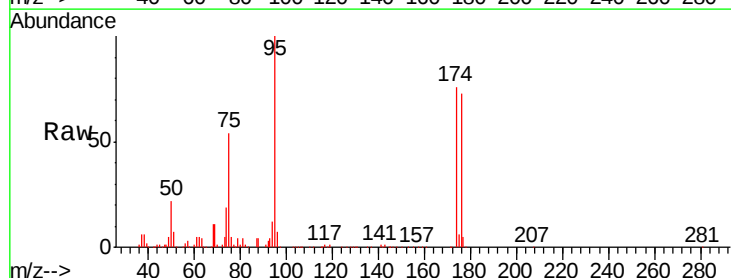
Instrument :
 MSVOA_N
 ClientSampleId :
 RE109D2-20190917

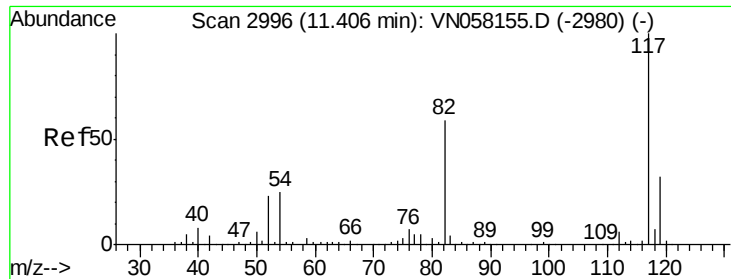
Tgt Ion: 129 Resp: 2075
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.7 116.1#



#62
 4-Bromofluorobenzene
 Concen: 45.288 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058247.D
 Acq: 20 Sep 2019 14:09

Tgt Ion: 95 Resp: 323180
 Ion Ratio Lower Upper
 95 100
 174 75.7 0.0 152.2
 176 72.4 0.0 148.0

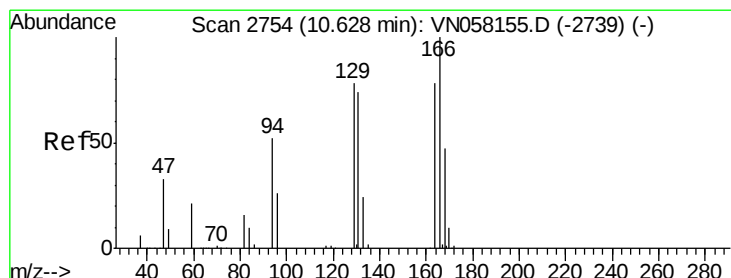
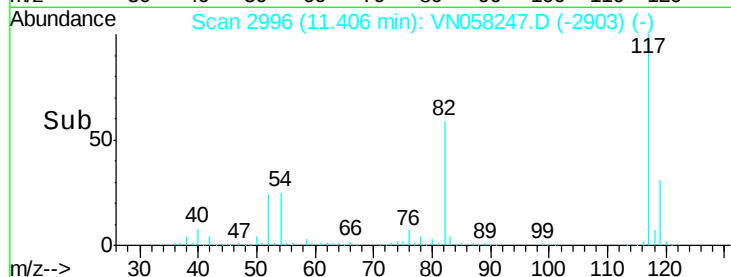
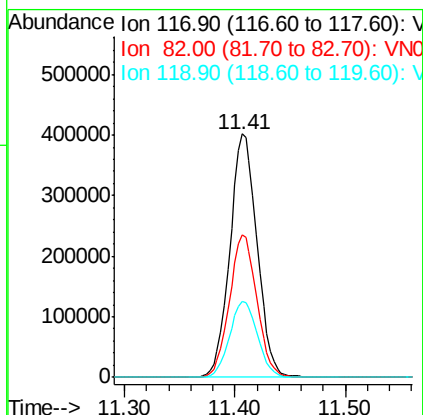
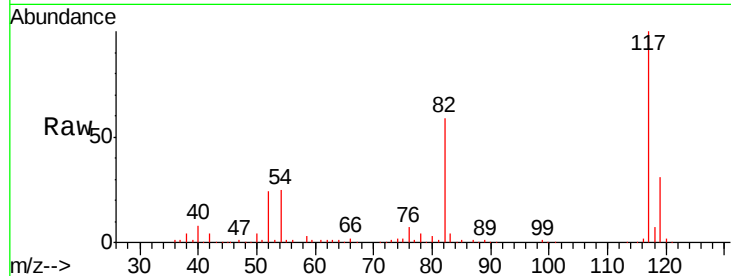




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058247.D
Acq: 20 Sep 2019 14:09

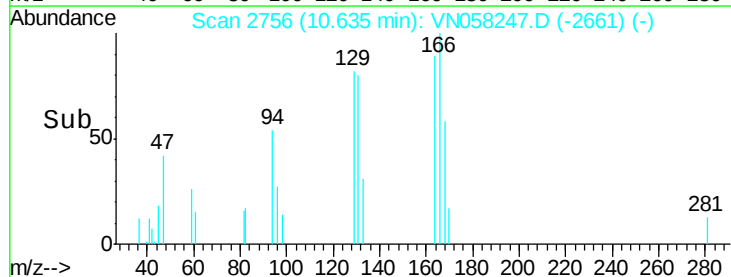
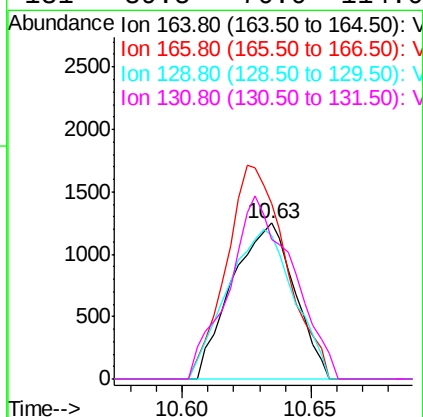
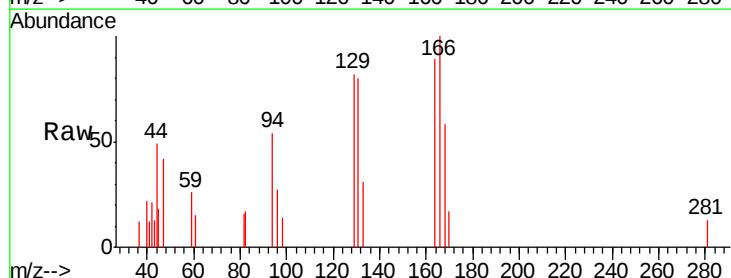
Instrument :
MSVOA_N
ClientSampleId :
RE109D2-20190917

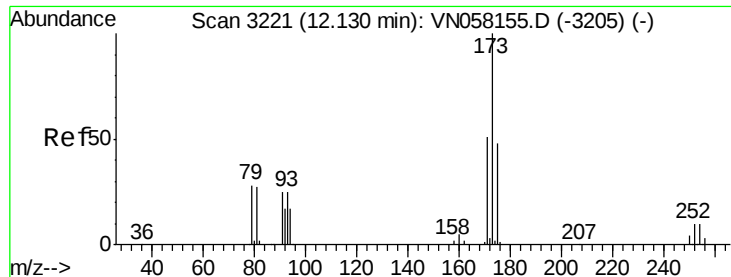
Tgt Ion:117 Resp: 687038
Ion Ratio Lower Upper
117 100
82 58.6 46.9 70.3
119 31.0 25.3 37.9



#64
Tetrachloroethene
Concen: 0.631 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.01 min
Lab File: VN058247.D
Acq: 20 Sep 2019 14:09

Tgt Ion:164 Resp: 2113
Ion Ratio Lower Upper
164 100
166 112.4 102.2 153.4
129 92.5 79.6 119.4
131 89.5 76.0 114.0





#71

Bromoform

Concen: 3.728 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

RE109D2-20190917

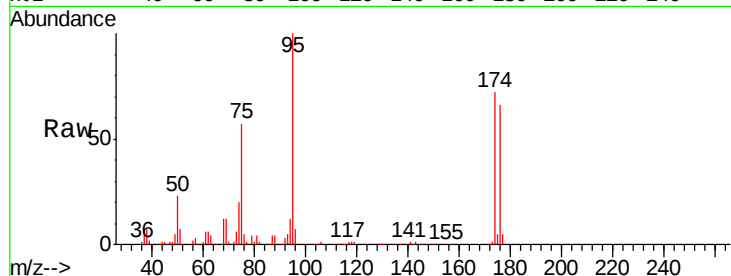
Tgt Ion:173 Resp: 466

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

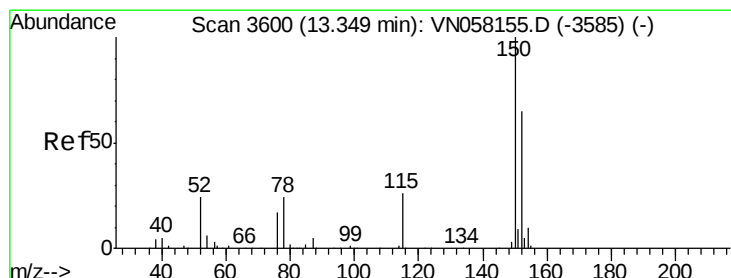
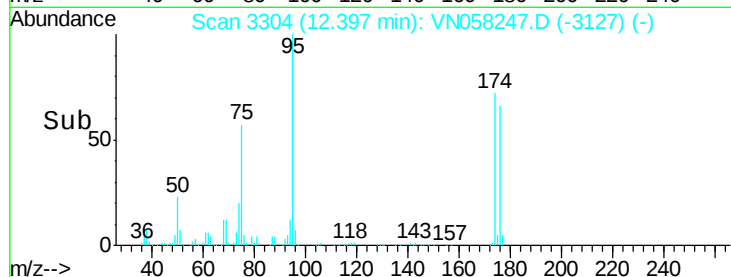
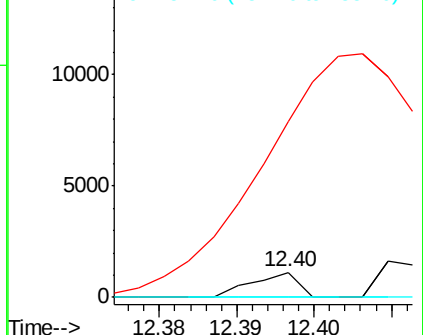
254 0.0 0.1 0.1#



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: VN058247.D

Acq: 20 Sep 2019 14:09

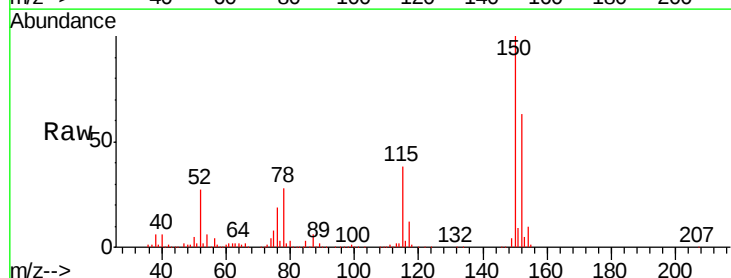
Tgt Ion:152 Resp: 279889

Ion Ratio Lower Upper

152 100

115 60.7 30.1 90.3

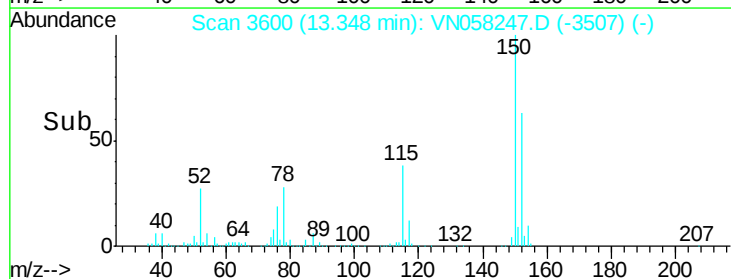
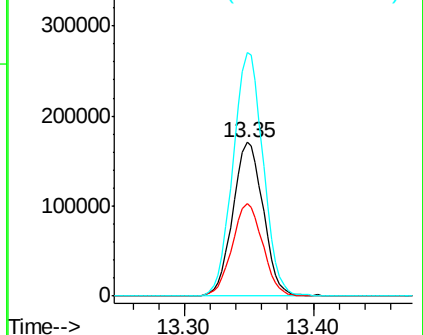
150 157.8 0.0 346.4

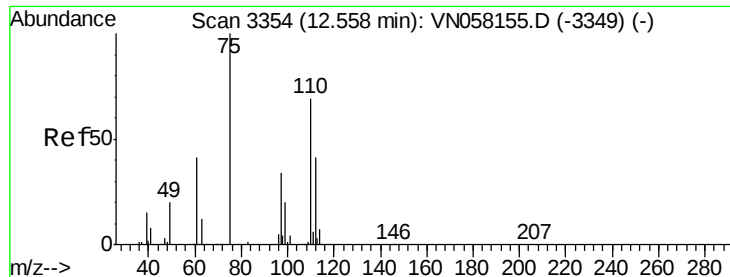


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.154 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

Instrument :

MSVOA_N

ClientSampleId :

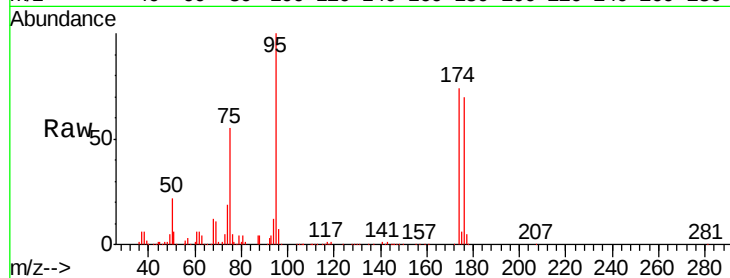
RE109D2-20190917

Tgt Ion: 75 Resp: 176091

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

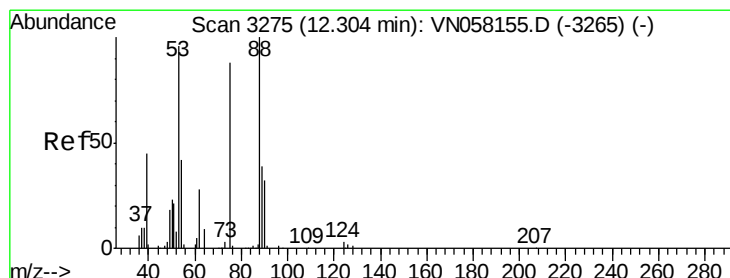
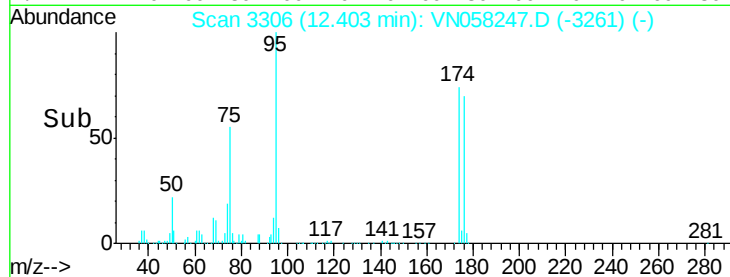
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 98.313 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058247.D

Acq: 20 Sep 2019 14:09

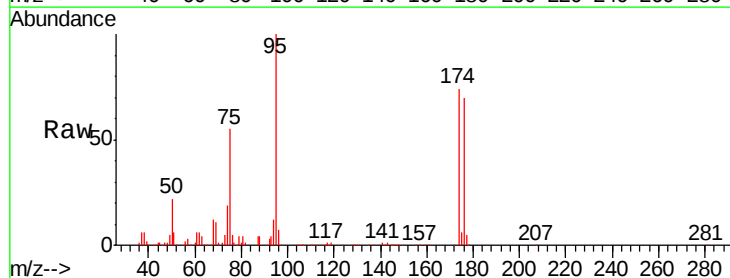
Tgt Ion: 75 Resp: 176091

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

100000

50000

0

Time-->

