

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058105.D
 Acq On : 16 Sep 2019 10:17
 Operator : JC/SP
 Sample : K4871-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-91119

Quant Time: Sep 17 03:47:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	302786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	497056	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	448217	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	230761	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	346309	56.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.94%	
35) Dibromofluoromethane	7.57	113	243809	53.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.28%	
50) Toluene-d8	10.08	98	920012	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.40	95	299240	44.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.16%	

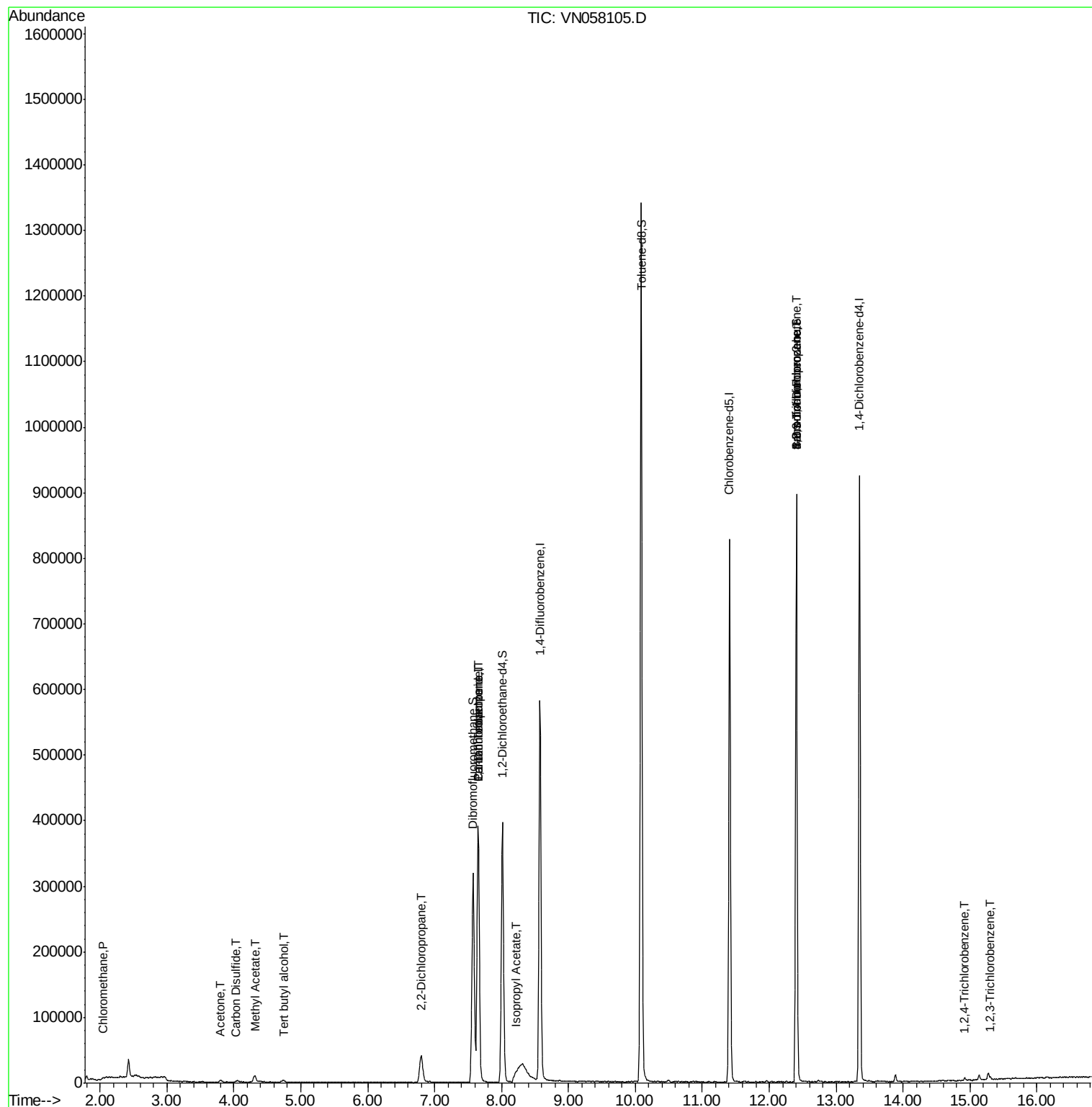
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	921	0.216	ug/l	95
5) Bromomethane	2.54	94	137	Below Cal	#	2
11) Tert butyl alcohol	4.74	59	726	0.978	ug/l #	72
16) Acetone	3.80	43	5229	2.601	ug/l	99
17) Carbon Disulfide	4.02	76	244	0.207	ug/l #	75
18) Methyl Acetate	4.31	43	19810	3.696	ug/l #	70
20) Methylene Chloride	4.54	84	371	Below Cal	#	15
26) 2,2-Dichloropropane	6.81	77	3126	0.488	ug/l #	54
31) Cyclohexane	7.65	56	8105	Below Cal	#	32
36) 1,1-Dichloropropene	7.65	75	25068	4.349	ug/l #	52
38) Carbon Tetrachloride	7.65	117	31479	5.981	ug/l #	16
43) Isopropyl Acetate	8.22	43	13952	1.393	ug/l #	56
71) Bromoform	12.40	173	1384	0.545	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	162629	31.154	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	162629	109.630	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.92	180	1284	0.240	ug/l	81
95) Naphthalene	15.13	128	5766	Below Cal	#	87
96) 1,2,3-Trichlorobenzene	15.30	180	1408	1.294	ug/l	87

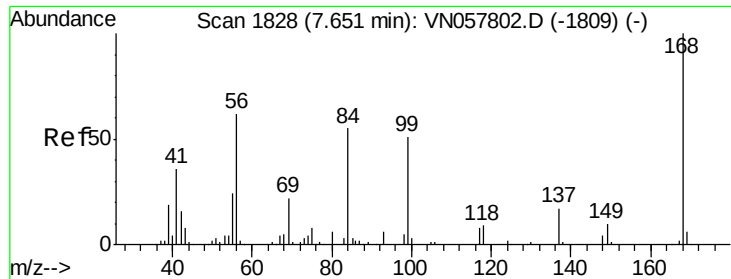
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058105.D

Acq: 16 Sep 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

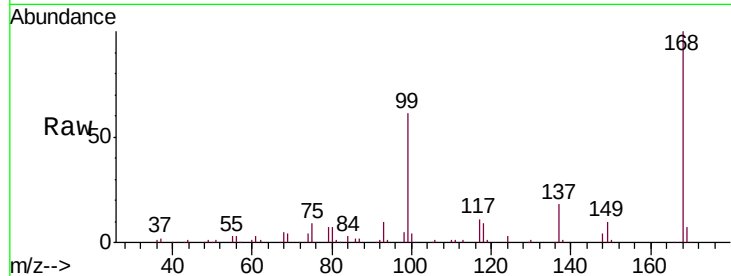
FB-91119

Tgt Ion:168 Resp: 302786

Ion Ratio Lower Upper

168 100

99 61.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

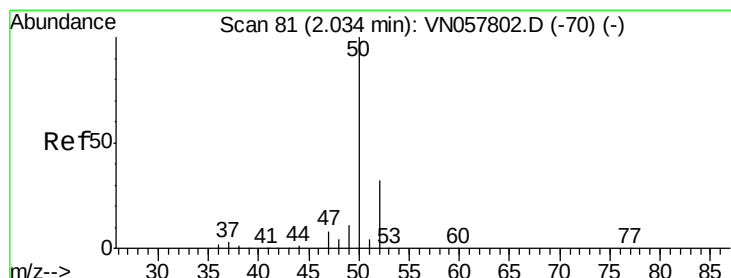
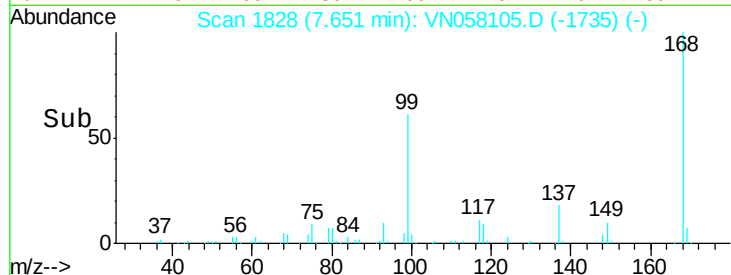
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.216 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN058105.D

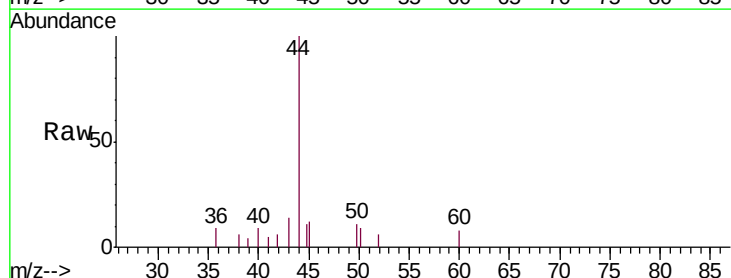
Acq: 16 Sep 2019 10:17

Tgt Ion: 50 Resp: 921

Ion Ratio Lower Upper

50 100

52 29.2 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

800

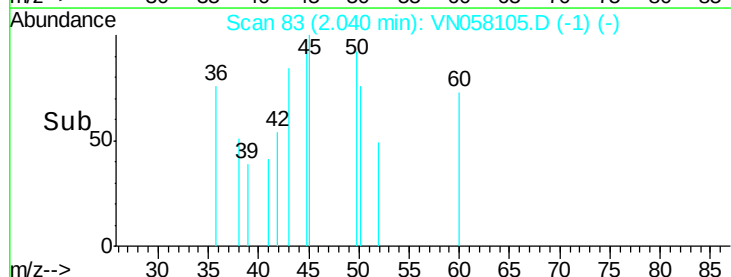
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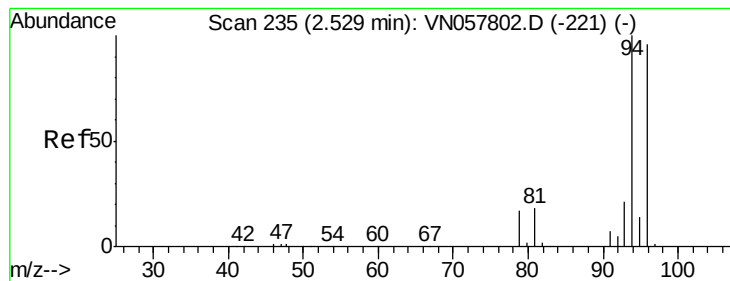
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

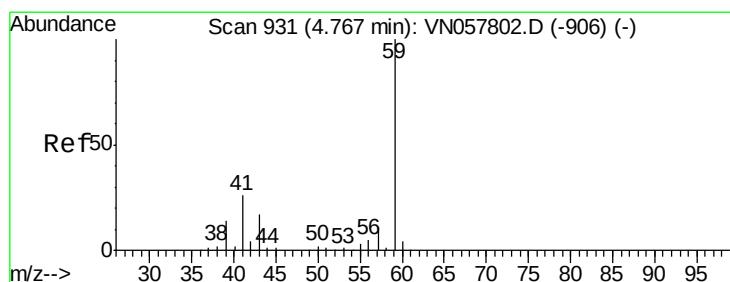
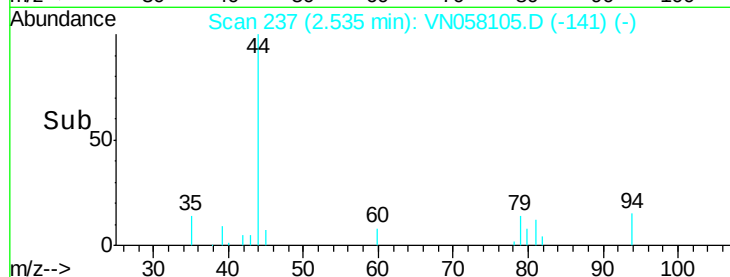
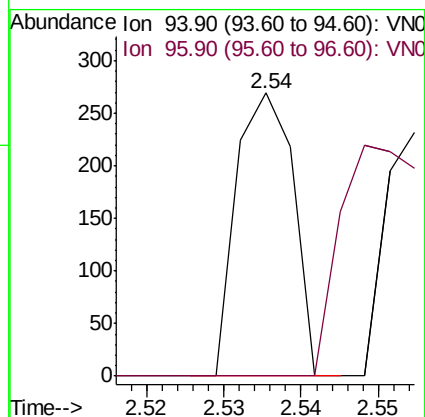
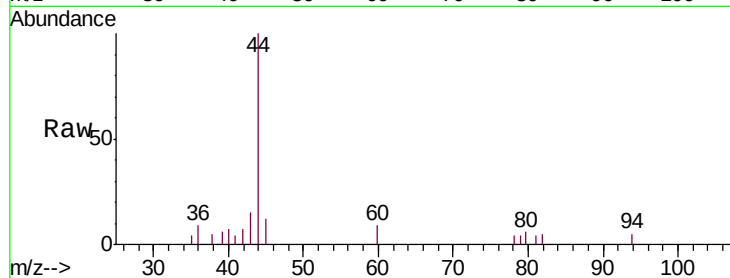
FB-91119

Tgt Ion: 94 Resp: 137

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



#11

Tert butyl alcohol

Concen: 0.978 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.03 min

Lab File: VN058105.D

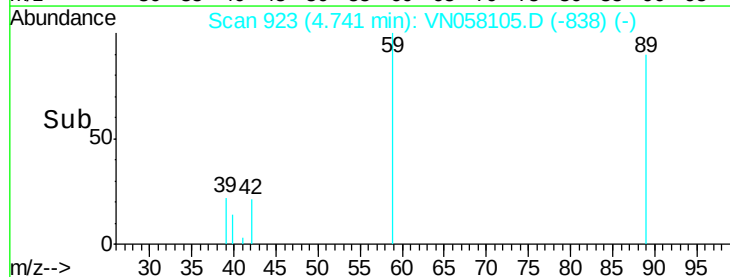
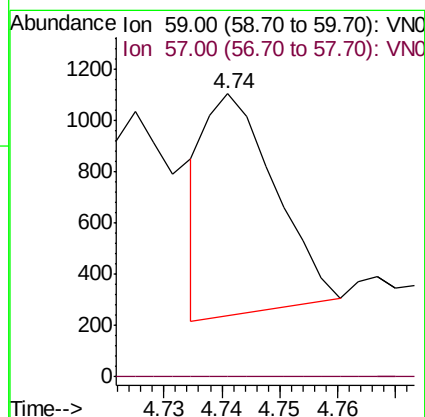
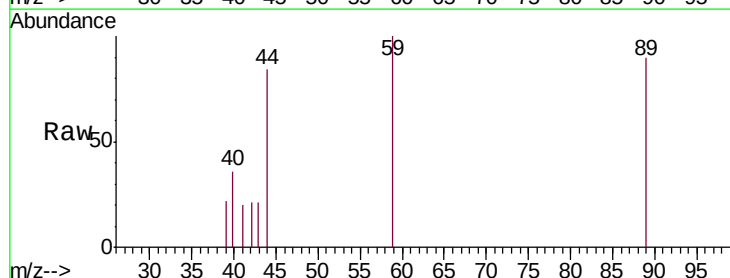
Acq: 16 Sep 2019 10:17

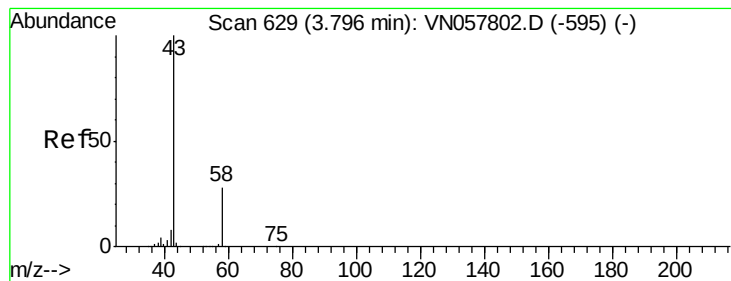
Tgt Ion: 59 Resp: 726

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#





#16

Acetone

Concen: 2.601 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

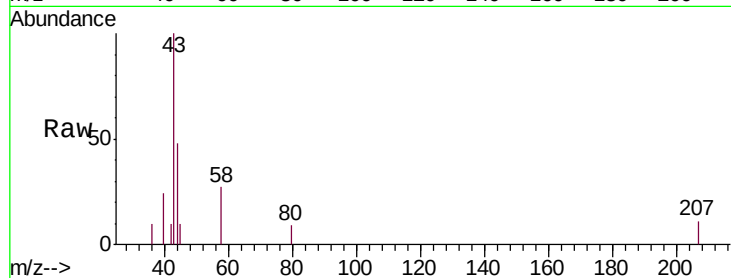
FB-91119

Tgt Ion: 43 Resp: 5229

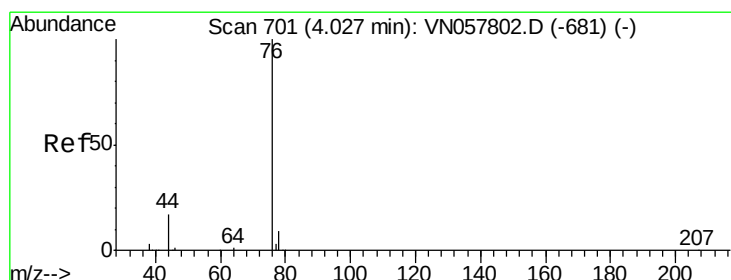
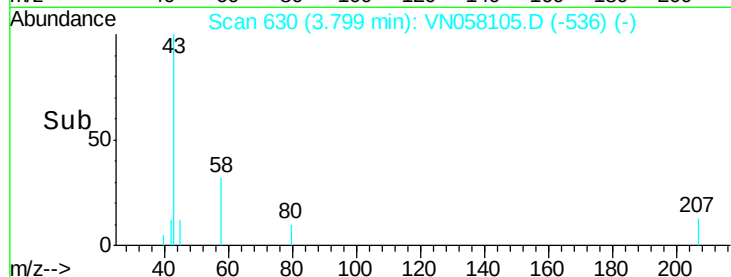
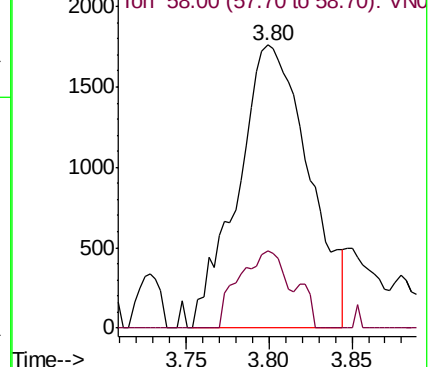
Ion Ratio Lower Upper

43 100

58 27.1 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-595) (-)



#17

Carbon Disulfide

Concen: 0.207 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.01 min

Lab File: VN058105.D

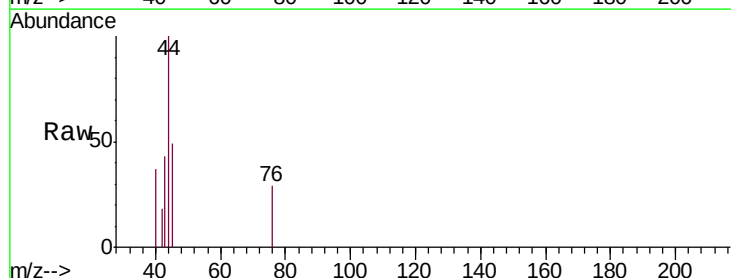
Acq: 16 Sep 2019 10:17

Tgt Ion: 76 Resp: 244

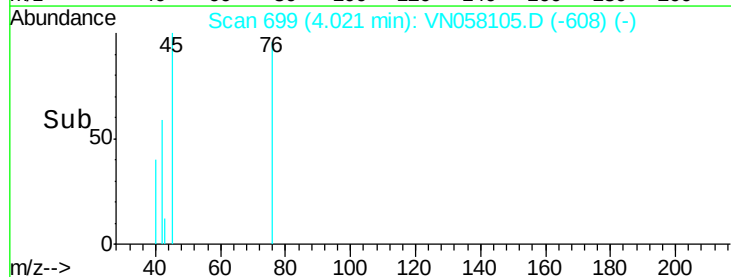
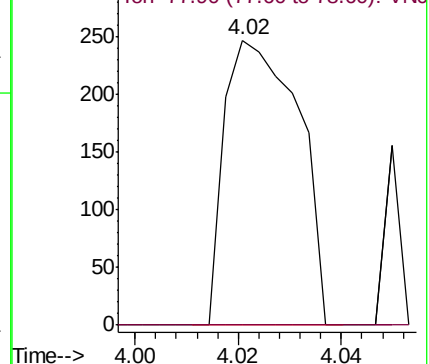
Ion Ratio Lower Upper

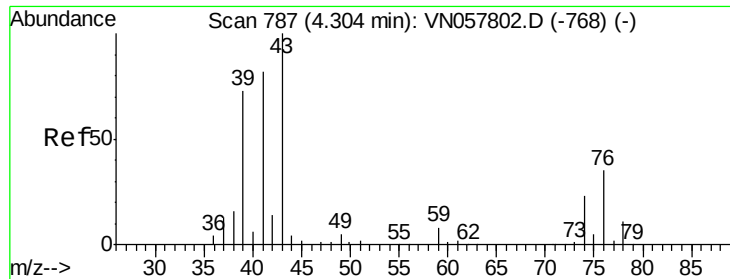
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN057802.D (-681) (-)

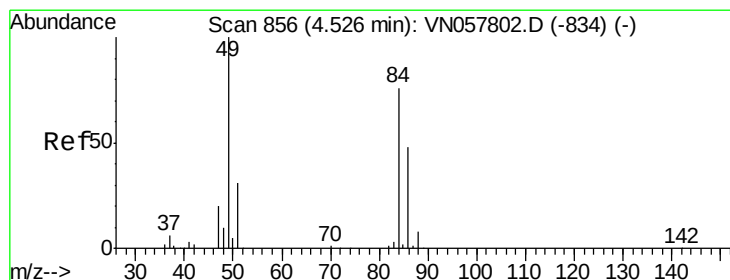
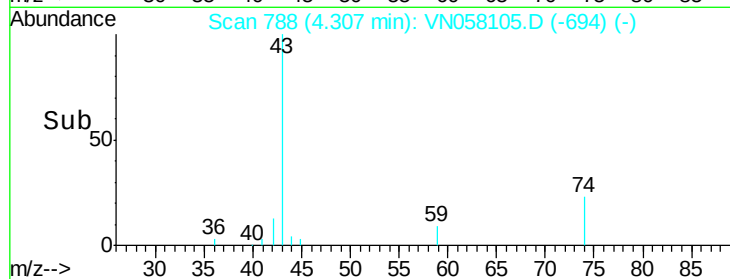
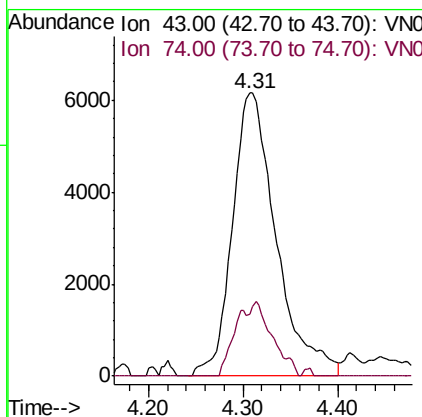
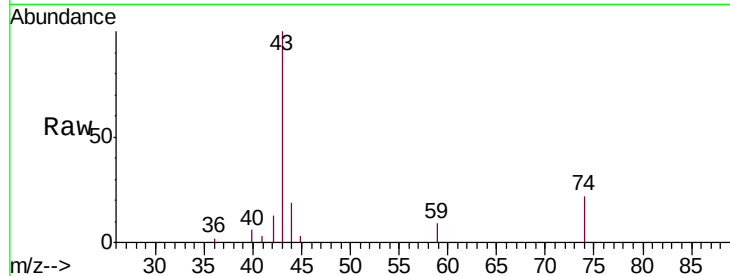




#18
Methyl Acetate
Concen: 3.696 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN058105.D
Acq: 16 Sep 2019 10:17

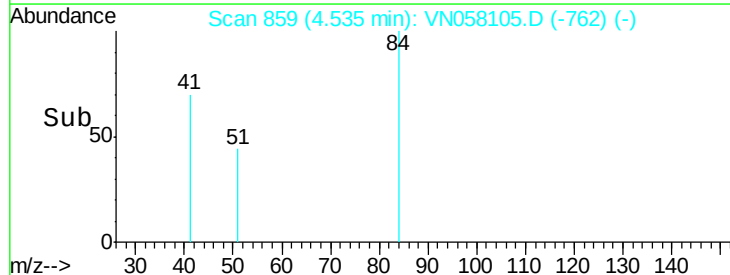
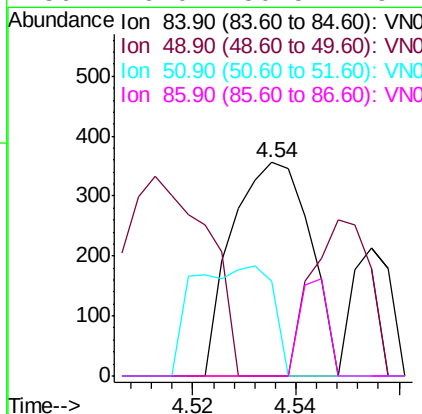
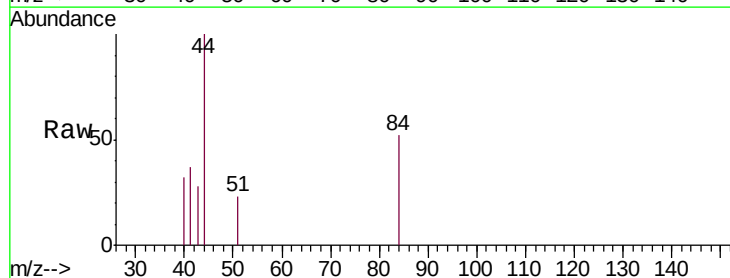
Instrument :
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ClientSampleId :
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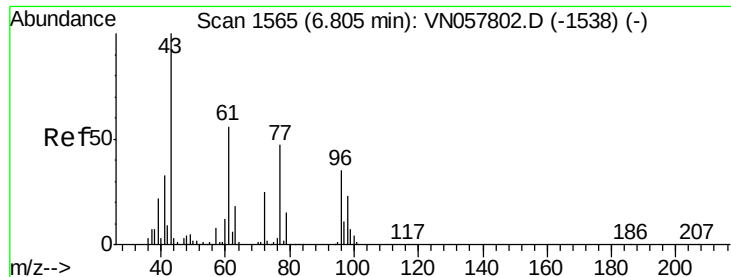
Tgt Ion: 43 Resp: 19810
Ion Ratio Lower Upper
43 100
74 8.1 17.9 26.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058105.D
Acq: 16 Sep 2019 10:17

Tgt Ion: 84 Resp: 371
Ion Ratio Lower Upper
84 100
49 0.0 104.8 157.2#
51 44.4 33.0 49.4
86 0.0 50.5 75.7#

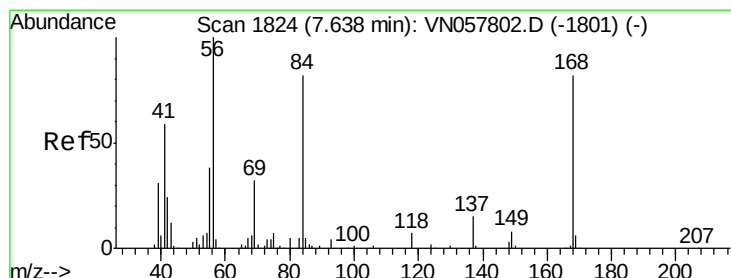
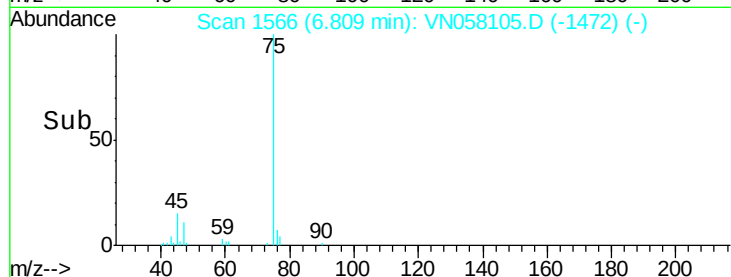
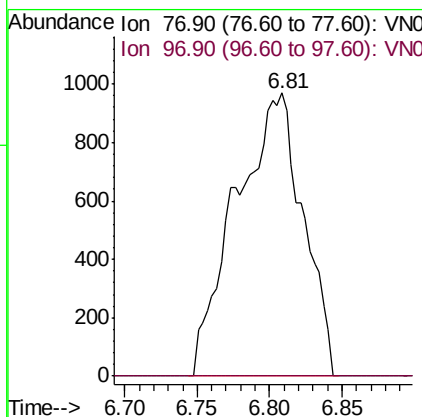
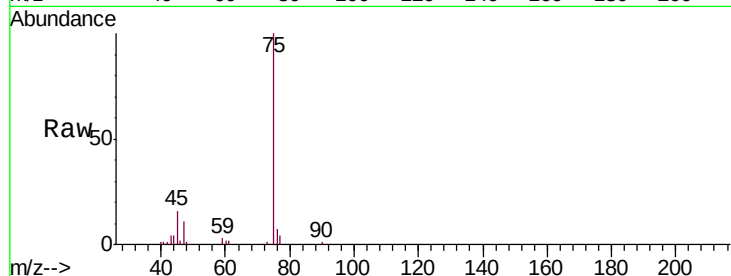




#26
 2,2-Dichloropropane
 Concen: 0.488 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VN058105.D
 Acq: 16 Sep 2019 10:17

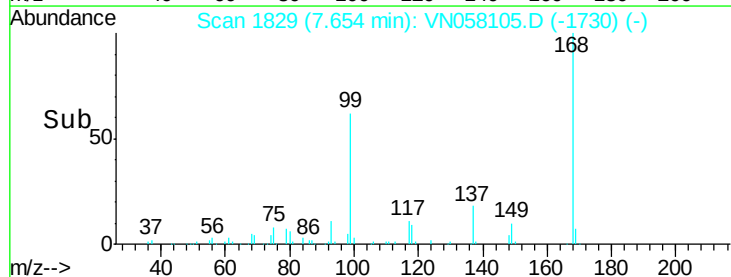
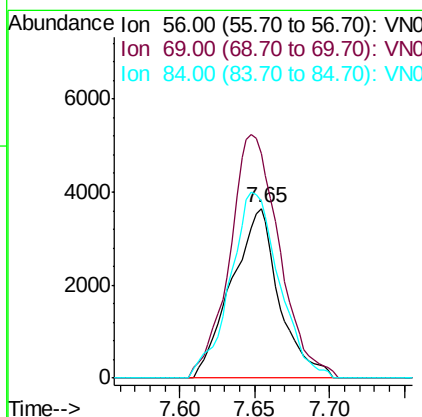
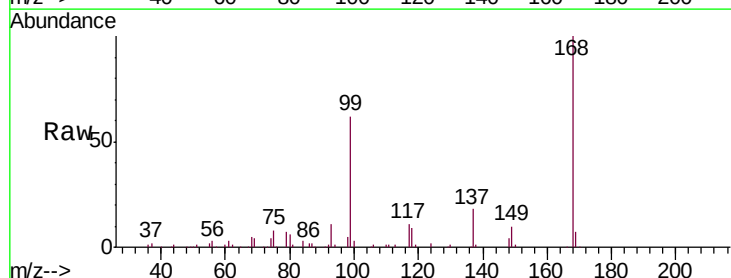
Instrument :
 MSVOA_N
 ClientSampled :
 FB-91119

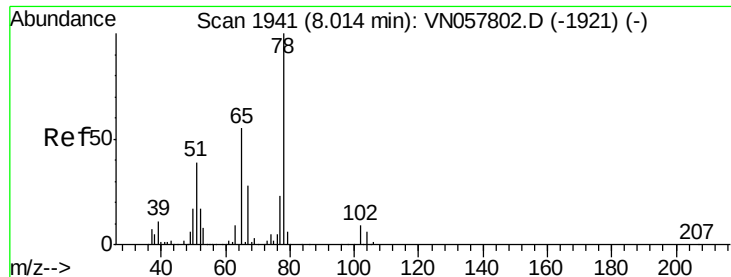
Tgt Ion: 77 Resp: 3126
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.1 33.3#



#31
 Cyclohexane
 Concen: Below Cal
 RT: 7.65 min Scan# 1829
 Delta R.T. 0.02 min
 Lab File: VN058105.D
 Acq: 16 Sep 2019 10:17

Tgt Ion: 56 Resp: 8105
 Ion Ratio Lower Upper
 56 100
 69 132.2 25.9 38.9#
 84 104.4 65.6 98.4#

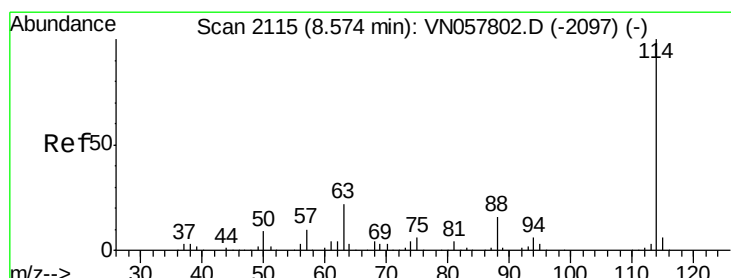
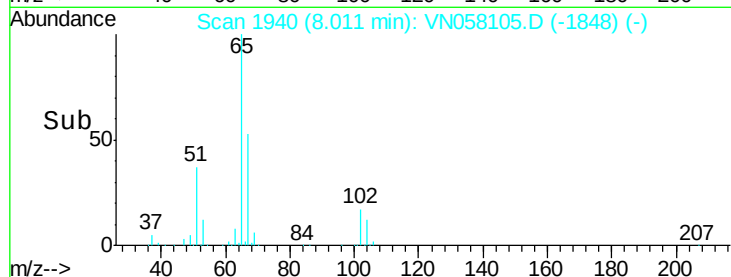
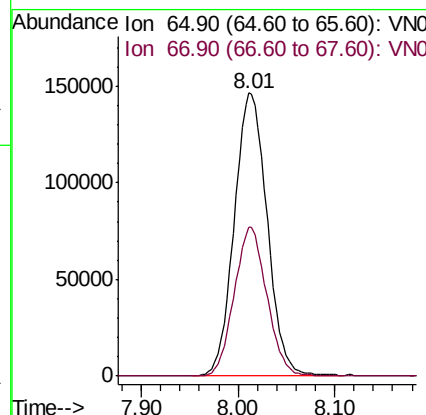
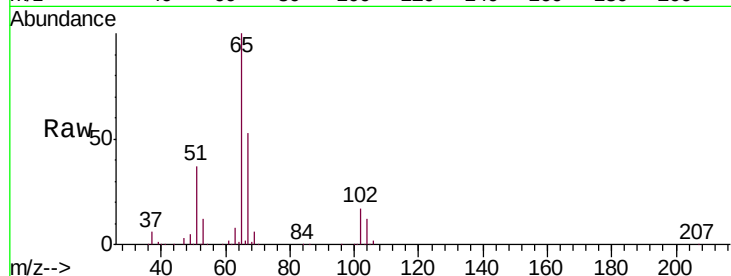




#33
 1,2-Dichloroethane-d4
 Concen: 56.469 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058105.D
 Acq: 16 Sep 2019 10:17

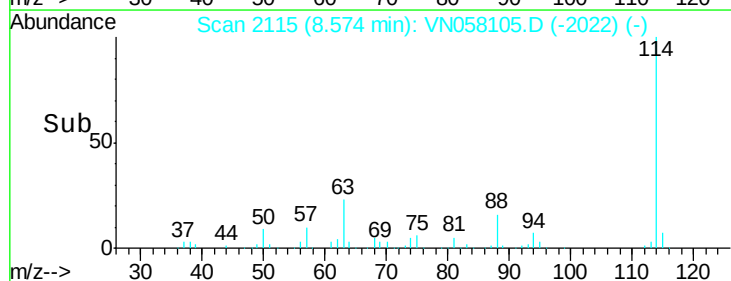
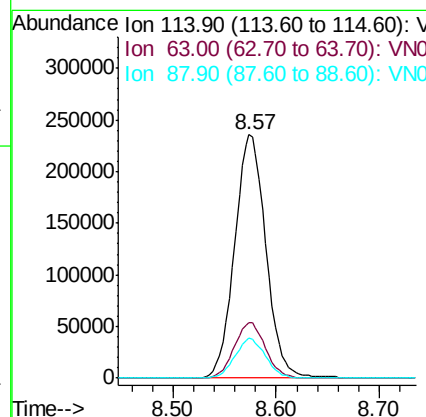
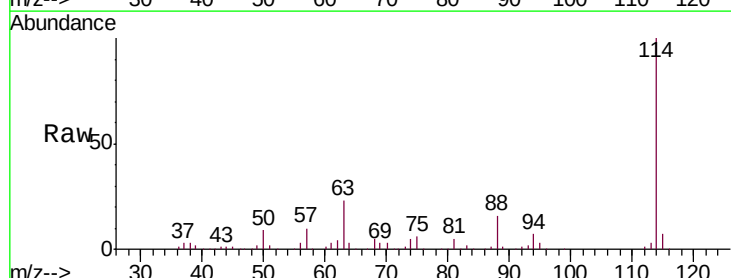
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 FB-91119

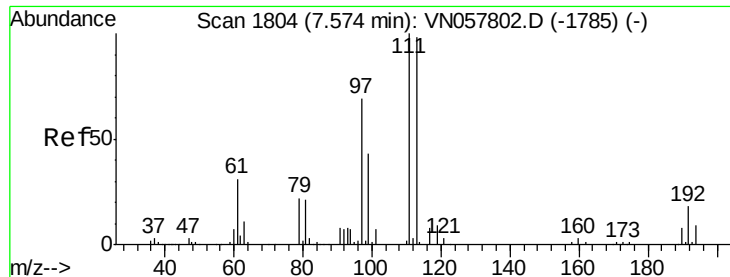
Tgt Ion: 65 Resp: 346309
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058105.D
 Acq: 16 Sep 2019 10:17

Tgt Ion: 114 Resp: 497056
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 44.0
 88 16.2 0.0 31.4

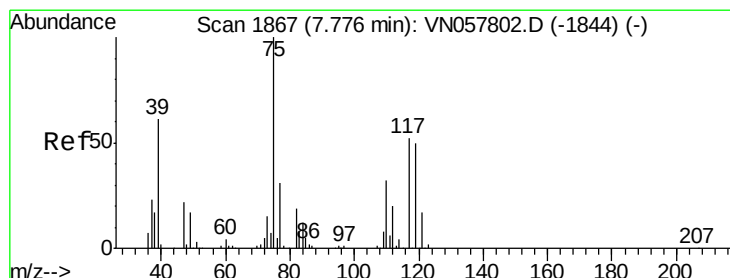
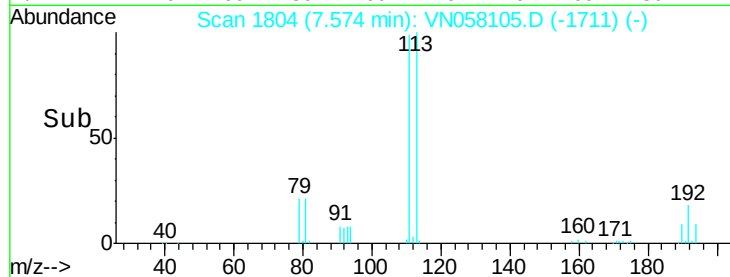
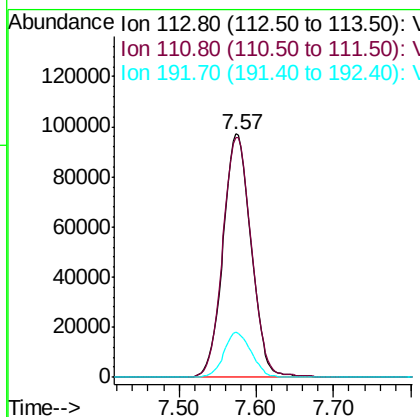
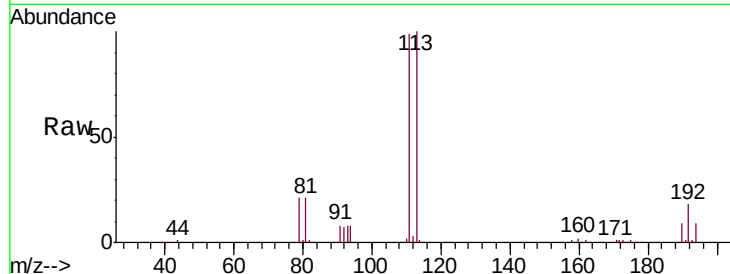




#35
 Dibromofluoromethane
 Concen: 53.145 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058105.D
 Acq: 16 Sep 2019 10:17

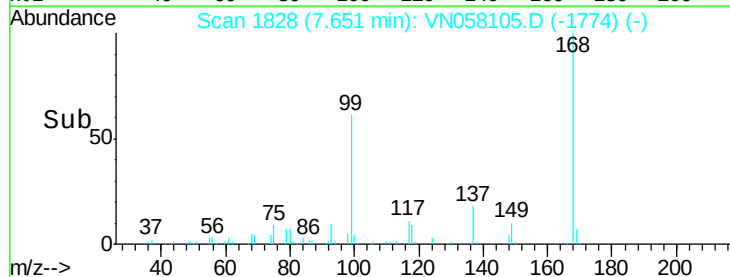
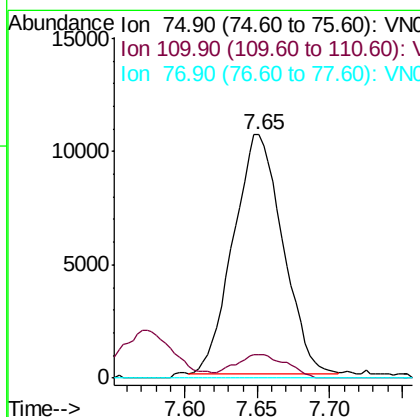
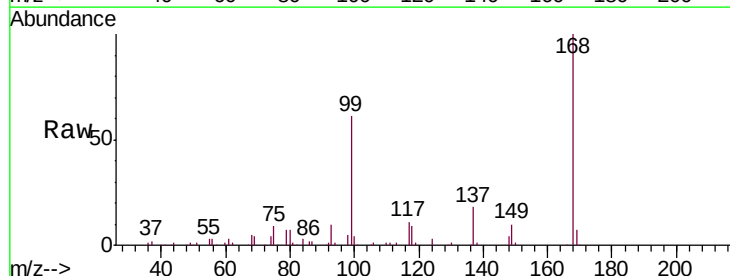
Instrument :
 MSVOA_N
 ClientSampleId :
 FB-91119

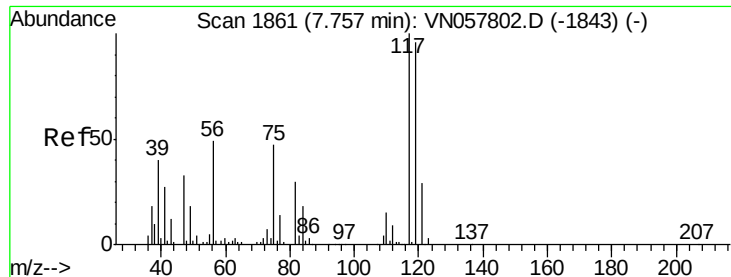
Tgt Ion: 113 Resp: 243809
 Ion Ratio Lower Upper
 113 100
 111 100.8 81.3 121.9
 192 18.0 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.349 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058105.D
 Acq: 16 Sep 2019 10:17

Tgt Ion: 75 Resp: 25068
 Ion Ratio Lower Upper
 75 100
 110 10.3 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.981 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

FB-91119

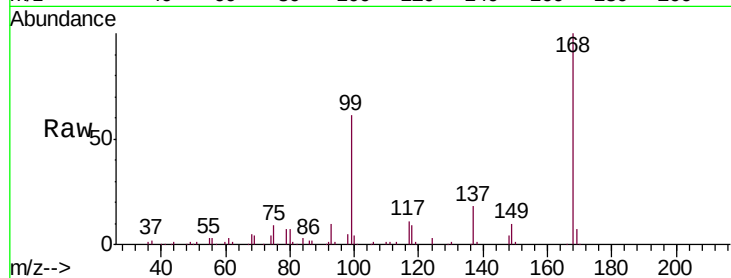
Tgt Ion:117 Resp: 31479

Ion Ratio Lower Upper

117 100

119 5.1 76.9 115.3#

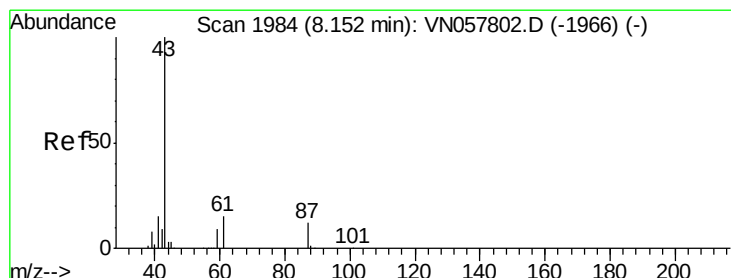
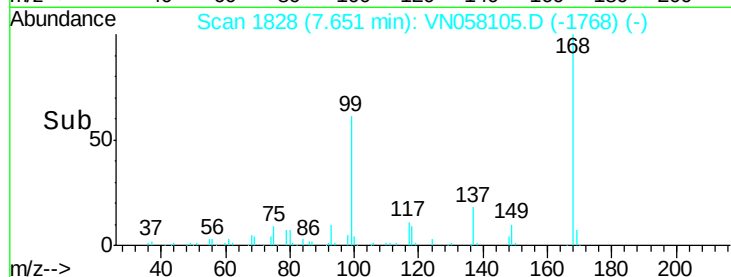
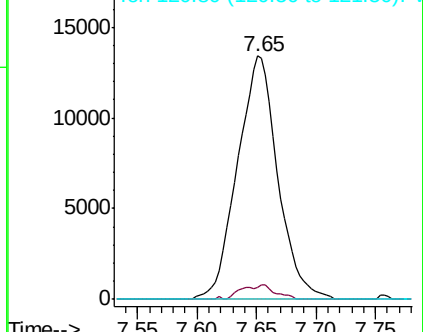
121 0.0 23.4 35.2#



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



#43

Isopropyl Acetate

Concen: 1.393 ug/l

RT: 8.22 min Scan# 2004

Delta R.T. 0.06 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

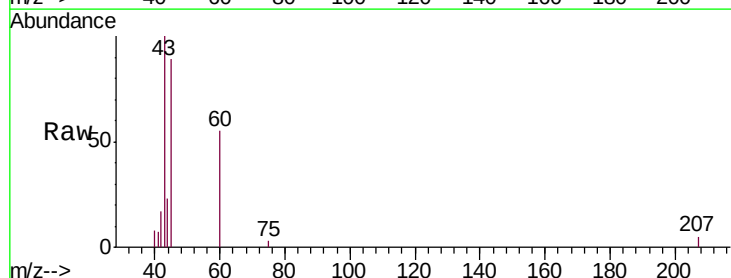
Tgt Ion: 43 Resp: 13952

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

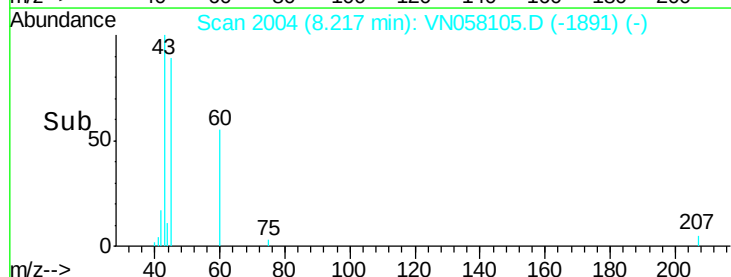
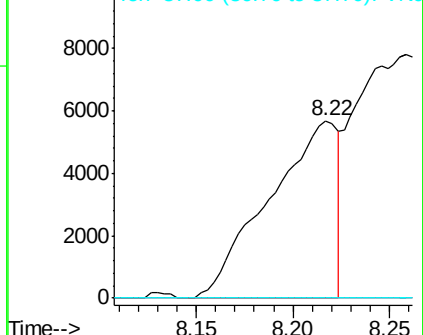
87 0.0 9.5 14.3#

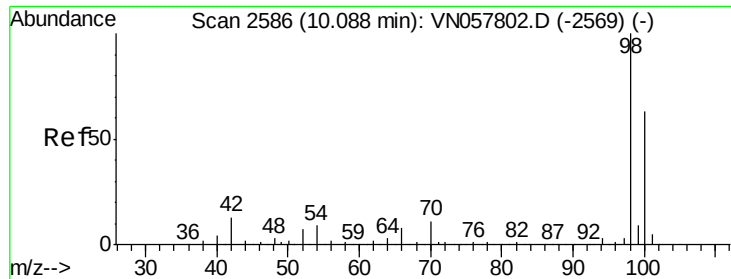


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 51.652 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

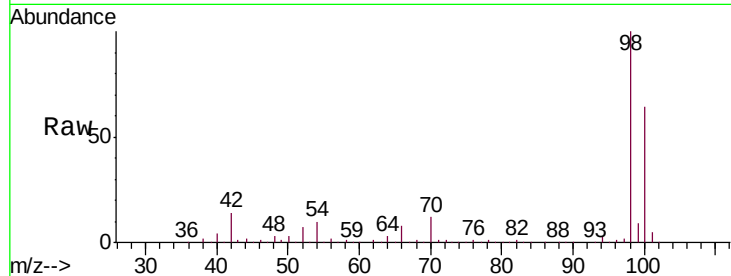
FB-91119

Tgt Ion: 98 Resp: 920012

Ion Ratio Lower Upper

98 100

100 63.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.08

500000

400000

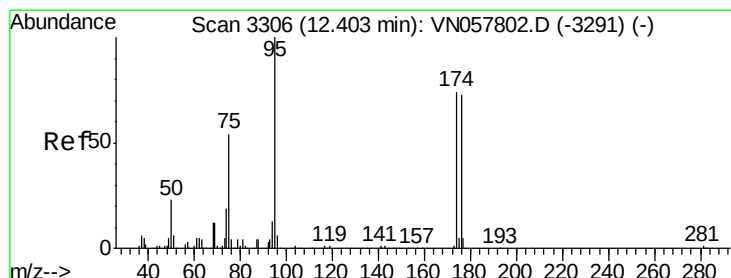
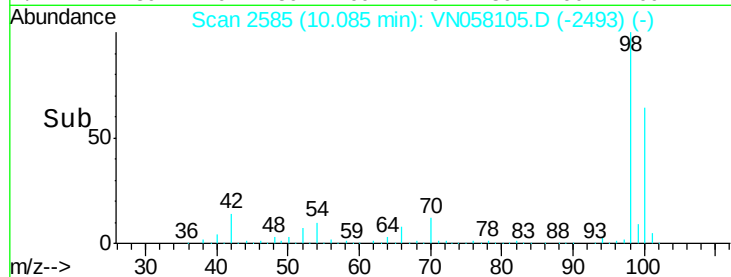
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.085 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

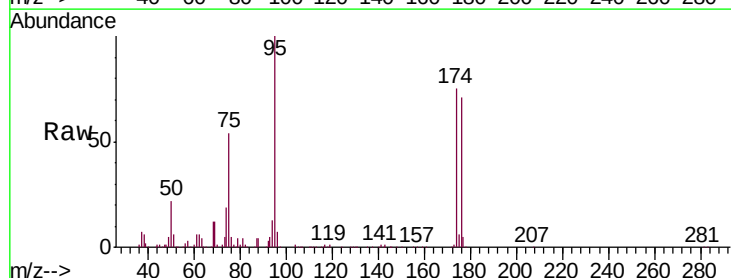
Tgt Ion: 95 Resp: 299240

Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.2

176 73.2 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.40

200000

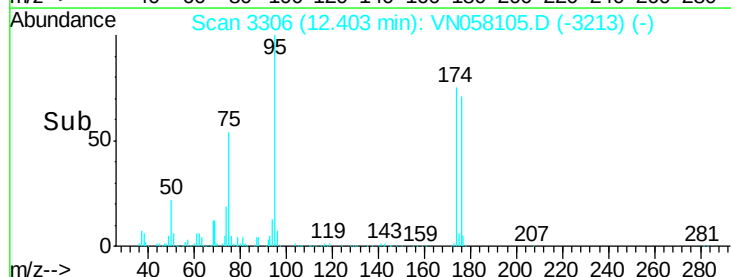
150000

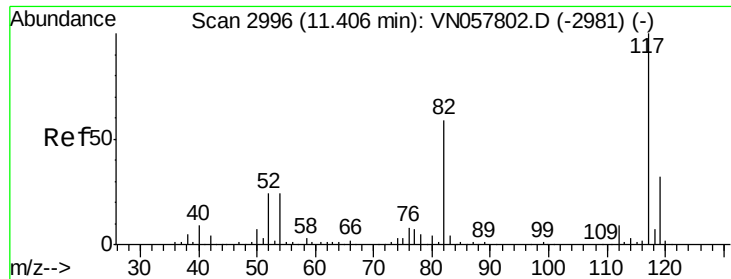
100000

50000

0

Time-->

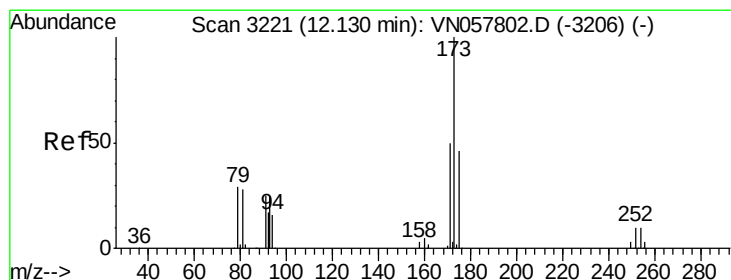
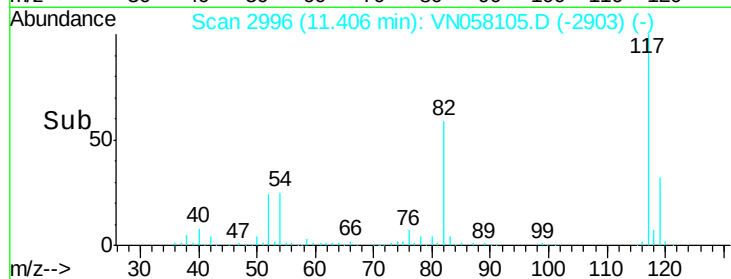
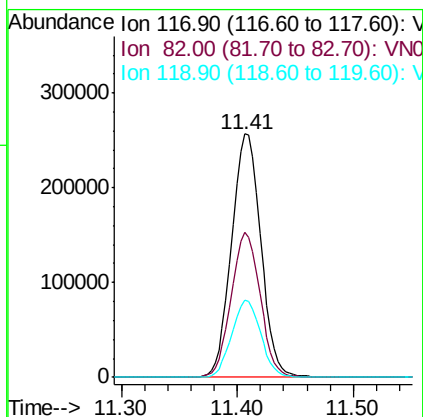
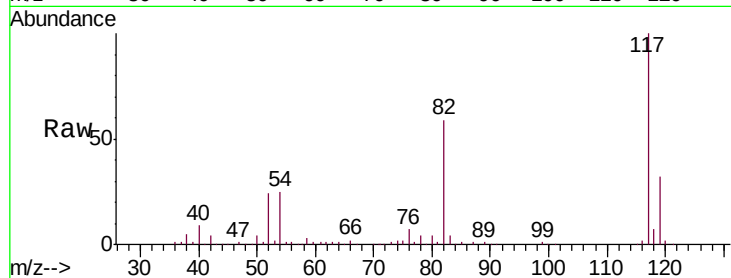




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058105.D
Acq: 16 Sep 2019 10:17

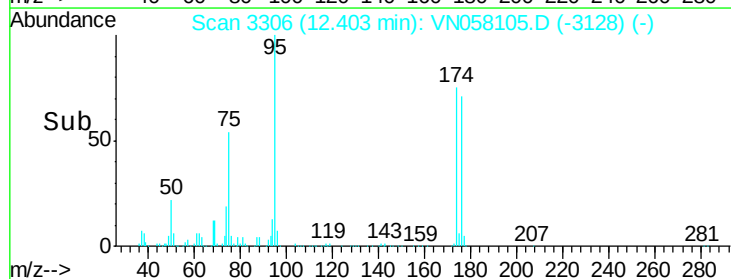
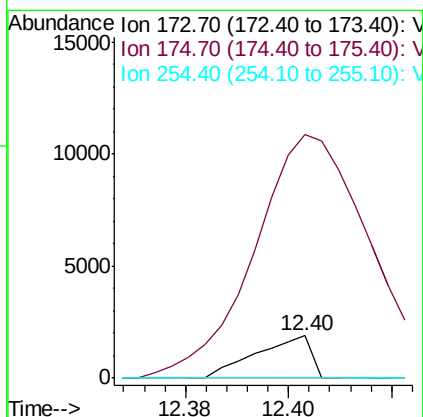
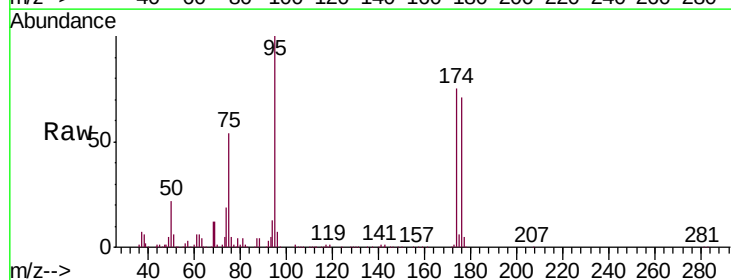
Instrument :
MSVOA_N
ClientSampleId :
FB-91119

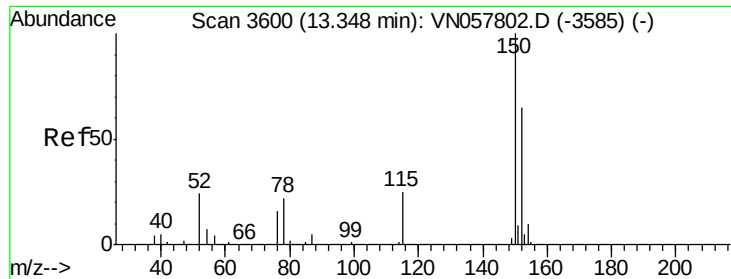
Tgt Ion:117 Resp: 448217
Ion Ratio Lower Upper
117 100
82 59.4 47.2 70.8
119 31.5 25.3 37.9



#71
Bromoform
Concen: 0.545 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058105.D
Acq: 16 Sep 2019 10:17

Tgt Ion:173 Resp: 1384
Ion Ratio Lower Upper
173 100
175 1080.0 23.5 70.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

FB-91119

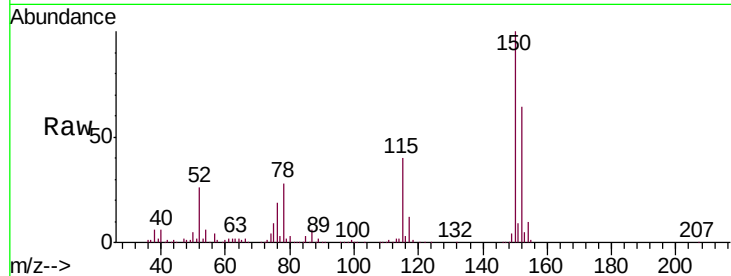
Tgt Ion:152 Resp: 230761

Ion Ratio Lower Upper

152 100

115 61.9 30.3 91.0

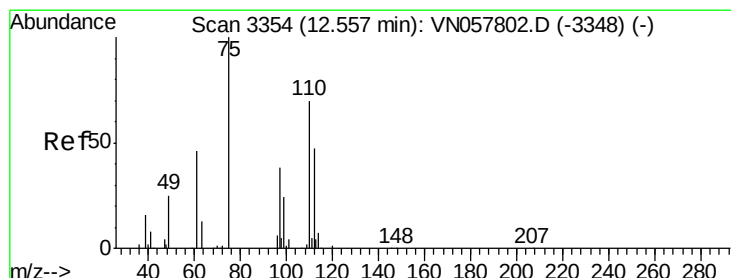
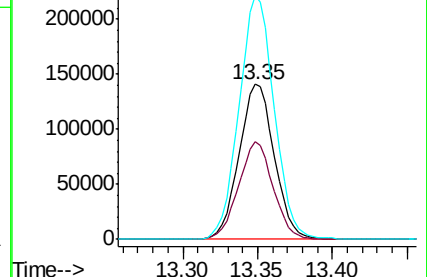
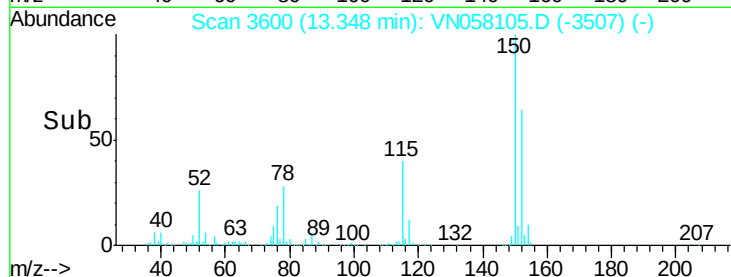
150 156.5 0.0 352.4



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: 31.154 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058105.D

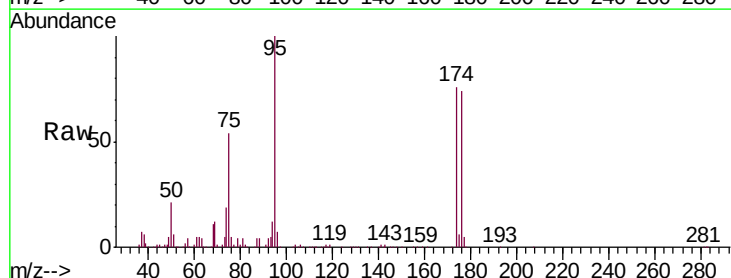
Acq: 16 Sep 2019 10:17

Tgt Ion: 75 Resp: 162629

Ion Ratio Lower Upper

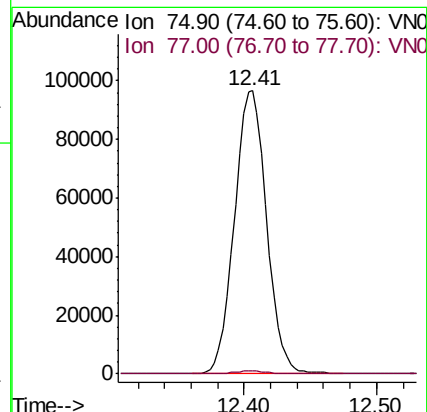
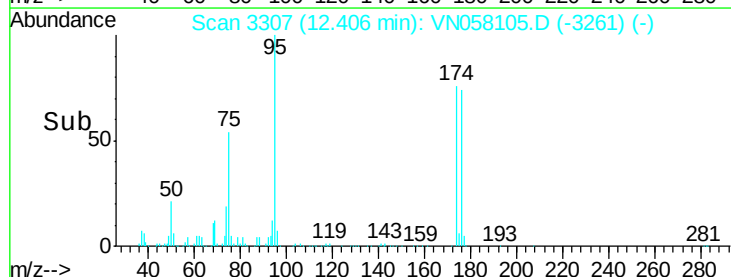
75 100

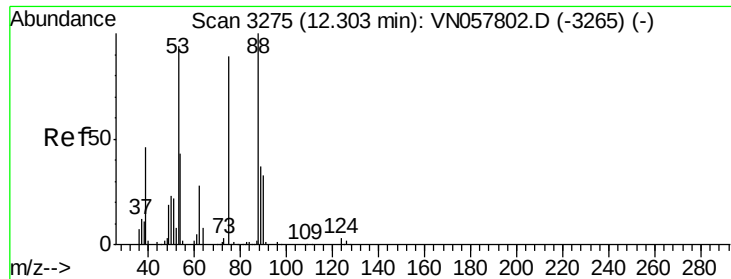
77 1.1 0.0 0.0#



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: 109.630 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

Instrument :

MSVOA_N

ClientSampled :

FB-91119

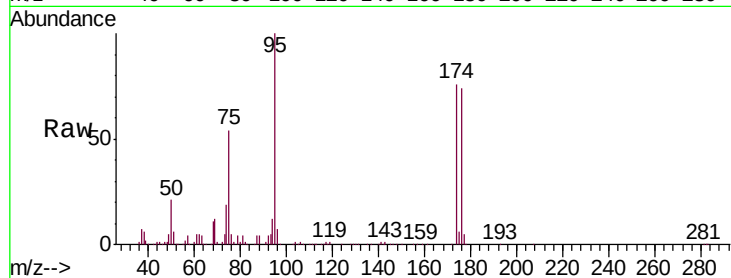
Tgt Ion: 75 Resp: 162629

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

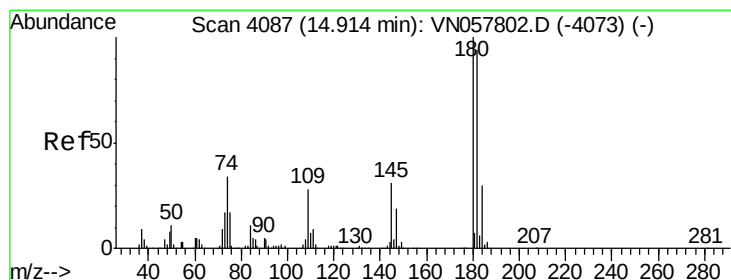
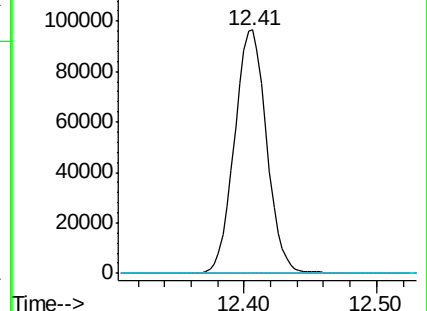
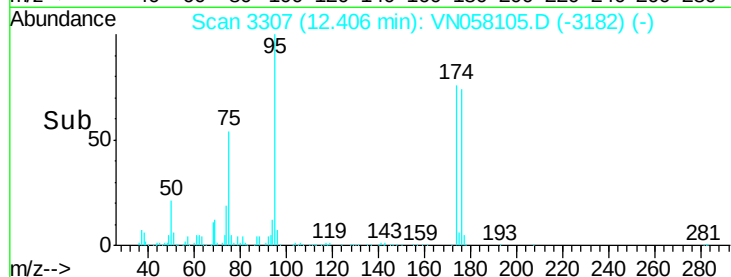
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058105.D (-3307) (-)

Ion 53.00 (52.70 to 53.70): VN058105.D (-3307) (-)

Ion 88.90 (88.60 to 89.60): VN058105.D (-3307) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.240 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.01 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

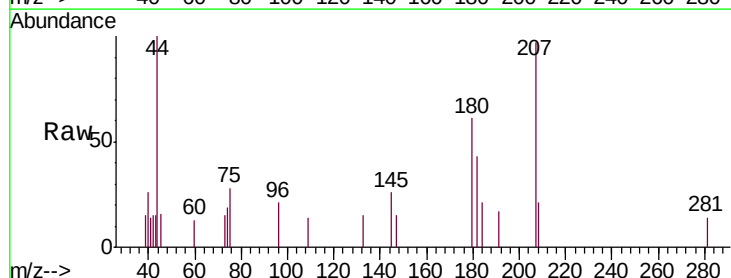
Tgt Ion: 180 Resp: 1284

Ion Ratio Lower Upper

180 100

182 76.6 46.9 140.8

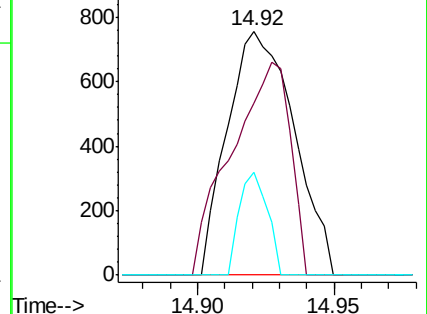
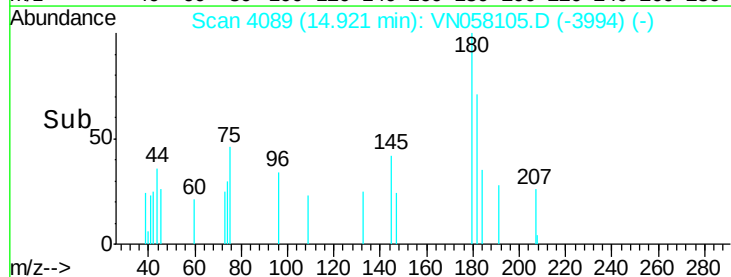
145 17.8 14.9 44.7

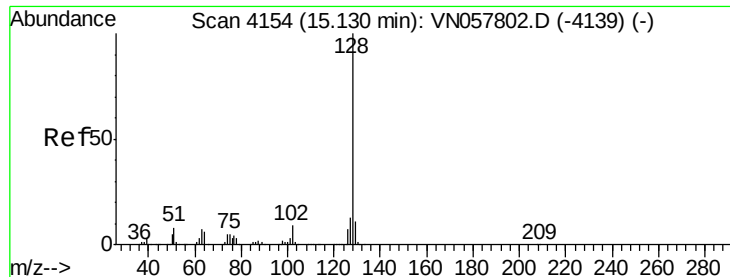


Abundance Ion 179.80 (179.50 to 180.50): VN058105.D (-4087) (-)

Ion 181.80 (181.50 to 182.50): VN058105.D (-4087) (-)

Ion 144.80 (144.50 to 145.50): VN058105.D (-4087) (-)





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

Instrument :

MSVOA_N

ClientSampleId :

FB-91119

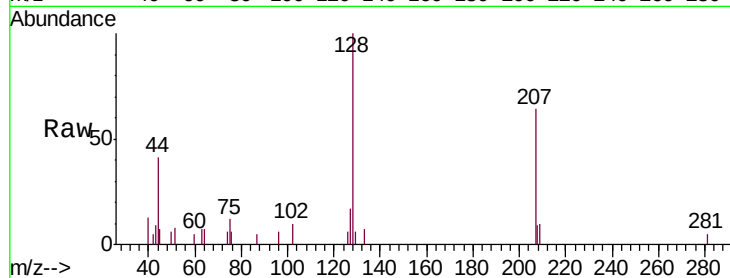
Tgt Ion:128 Resp: 5766

Ion Ratio Lower Upper

128 100

127 15.2 10.3 15.5

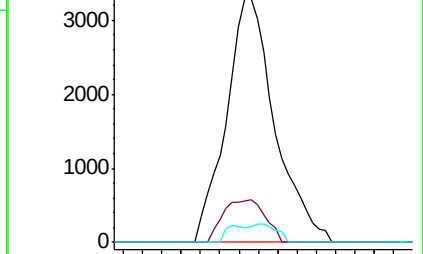
129 2.7 8.6 12.8#



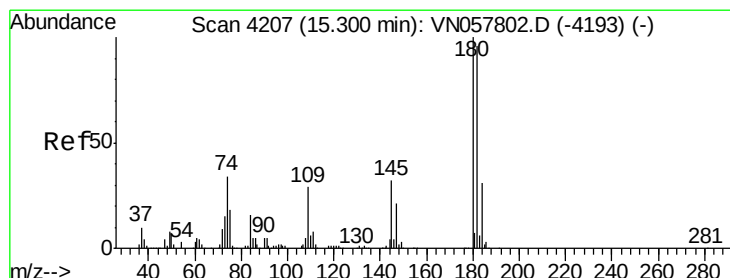
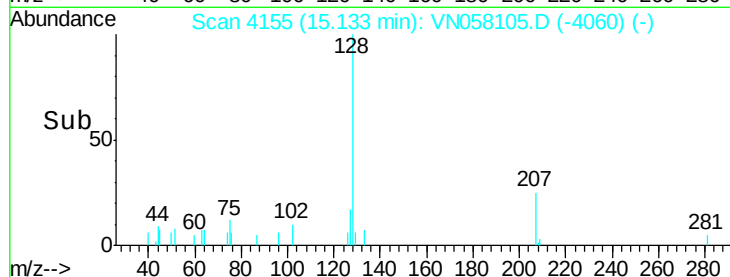
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 1.294 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058105.D

Acq: 16 Sep 2019 10:17

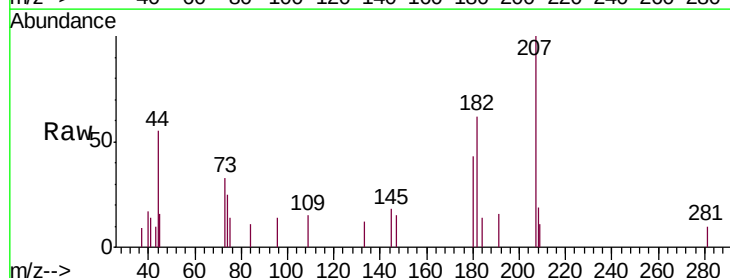
Tgt Ion:180 Resp: 1408

Ion Ratio Lower Upper

180 100

182 110.2 48.3 144.8

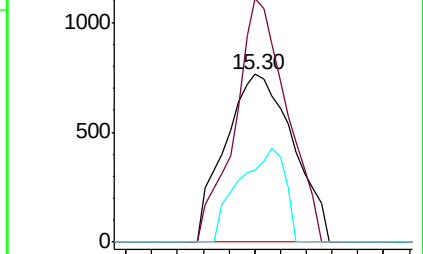
145 37.7 16.3 48.8



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



Time-->

