

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121119\
 Data File : VN059556.D
 Acq On : 11 Dec 2019 12:30
 Operator : JC/SP
 Sample : VN1211WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1211WBL01

Quant Time: Dec 12 00:50:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	247015	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	402440	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	348945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	131764	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	178484	51.70	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.57	113	128174	53.37	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	493620	50.35	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	153795	42.38	ug/l	0.00
Spiked Amount						

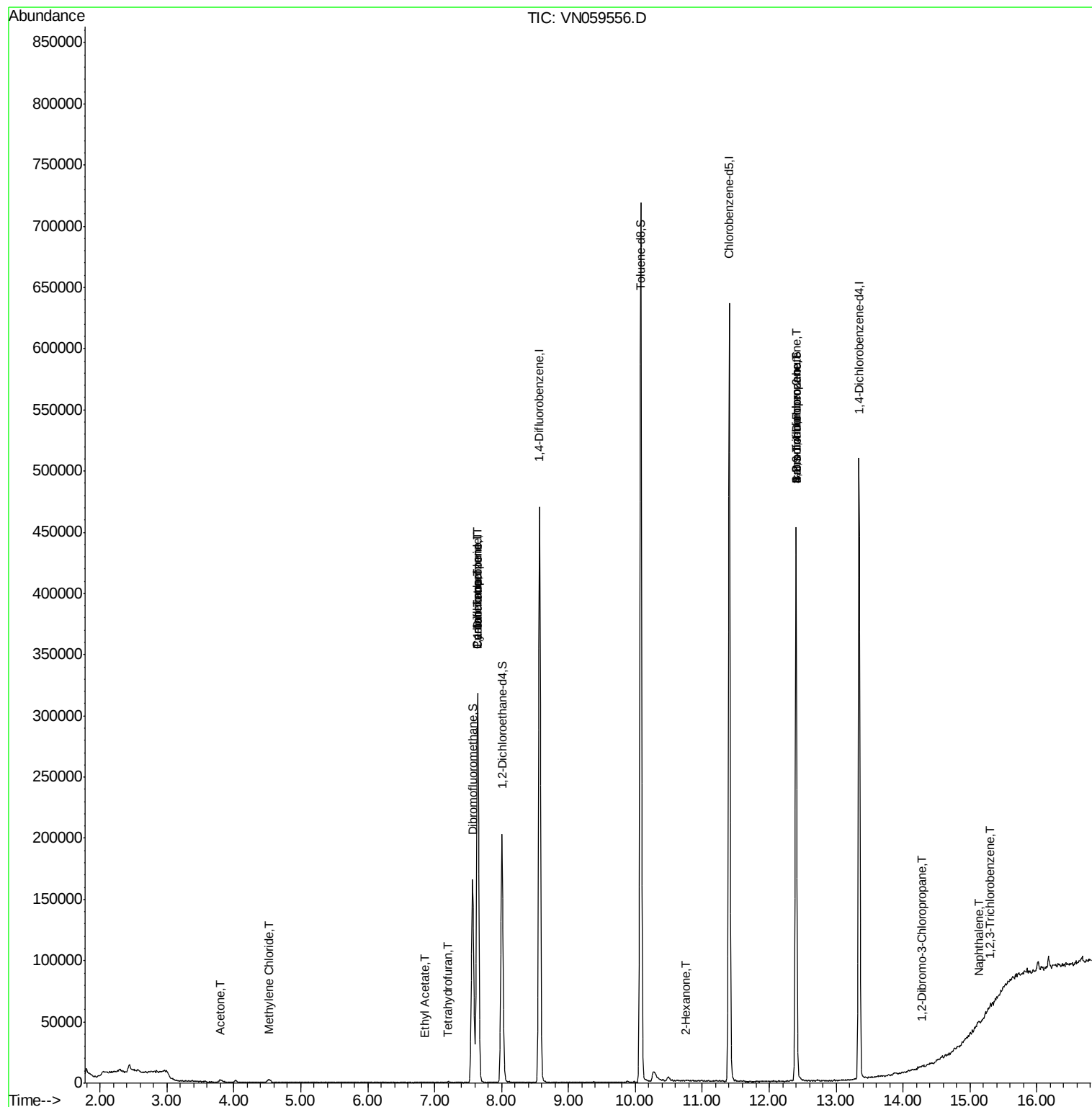
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	1974	1.224	ug/l	93
17) Carbon Disulfide	4.03	76	2558	Below Cal	#	74
20) Methylene Chloride	4.52	84	1981	0.410	ug/l	94
29) Tetrahydrofuran	7.20	42	463	0.307	ug/l #	35
31) Cyclohexane	7.64	56	5951	1.144	ug/l #	5
36) 1,1-Dichloropropene	7.64	75	20741	5.023	ug/l #	51
37) Ethyl Acetate	6.87	43	182	1.574	ug/l #	69
38) Carbon Tetrachloride	7.64	117	25424	6.247	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	410	Below Cal	#	37
59) 2-Hexanone	10.76	43	308	2.302	ug/l #	26
71) Bromoform	12.40	173	1076	0.501	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	82179	24.389	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	82179	65.618	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.27	75	293	2.446	ug/l #	3
95) Naphthalene	15.13	128	1801	0.209	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.30	180	550	2.593	ug/l #	75

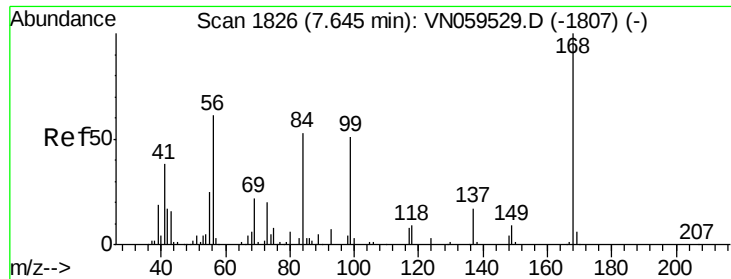
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 10 01:09:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059556.D

Acq: 11 Dec 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

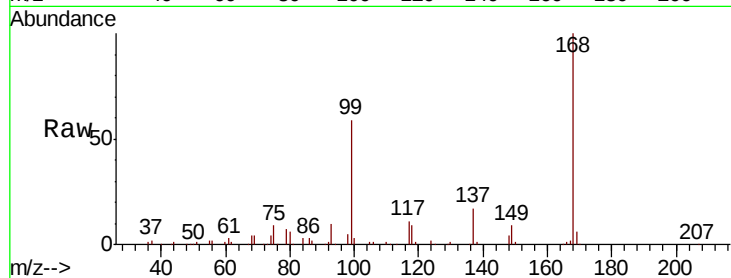
VN1211WBL01

Tot Ion:168 Resp: 247015

Ion Ratio Lower Upper

168 100

99 59.3 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

120000

100000

80000

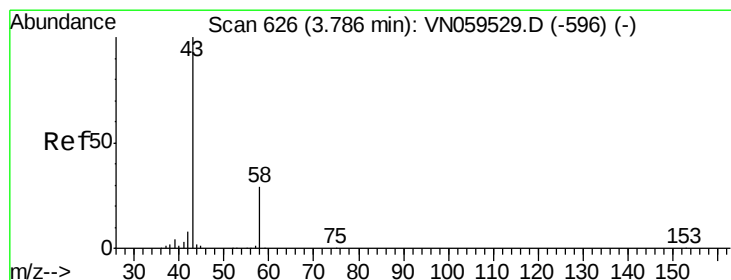
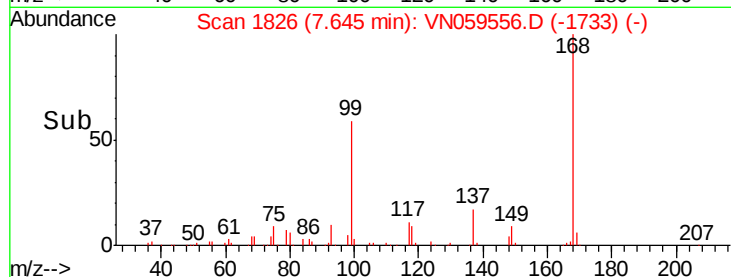
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 1.224 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059556.D

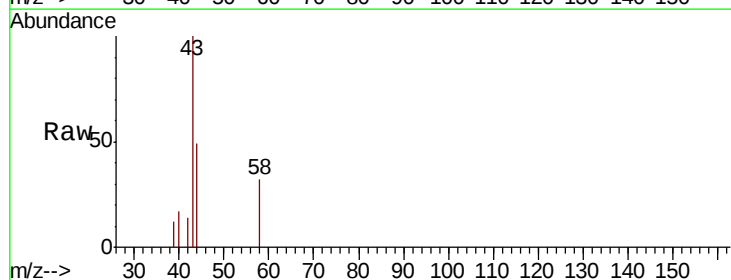
Acq: 11 Dec 2019 12:30

Tgt Ion: 43 Resp: 1974

Ion Ratio Lower Upper

43 100

58 32.2 23.0 34.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

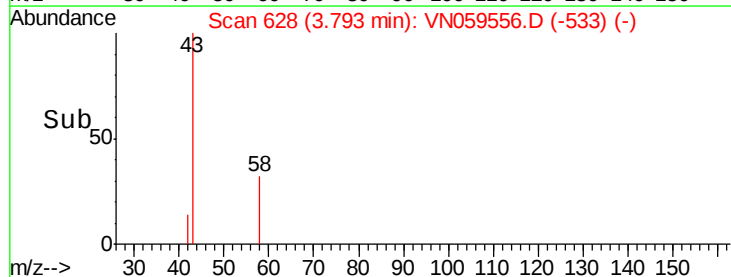
1500

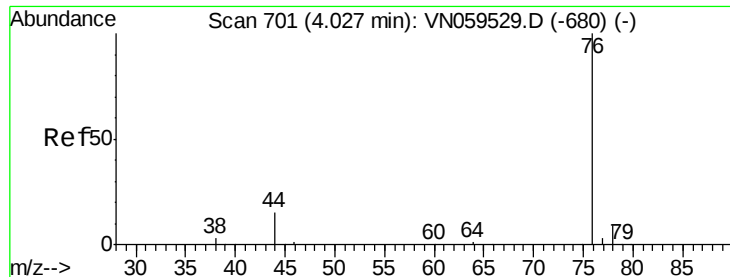
1000

500

0

Time--> 3.74 3.76 3.78 3.80

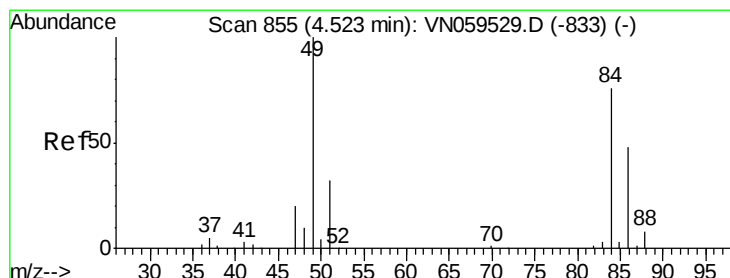
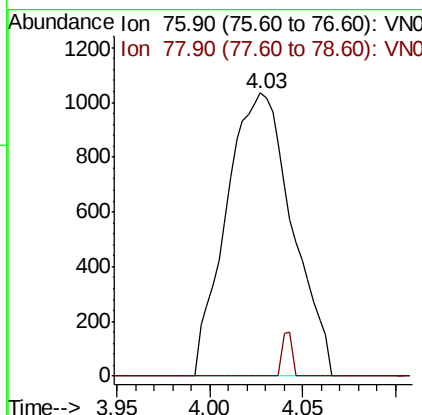
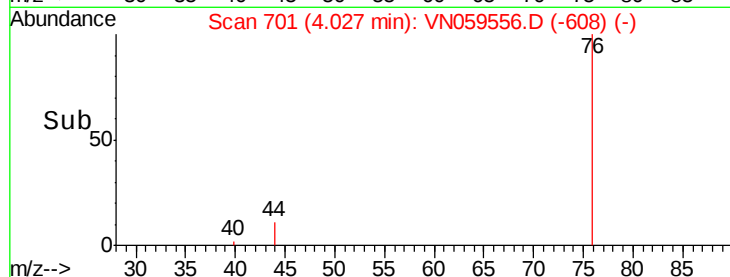
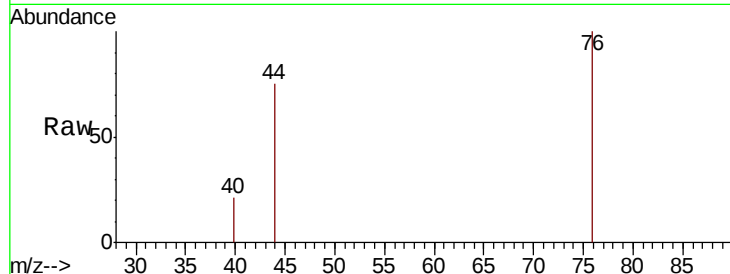




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.03 min Scan# 701
Delta R.T. 0.00 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

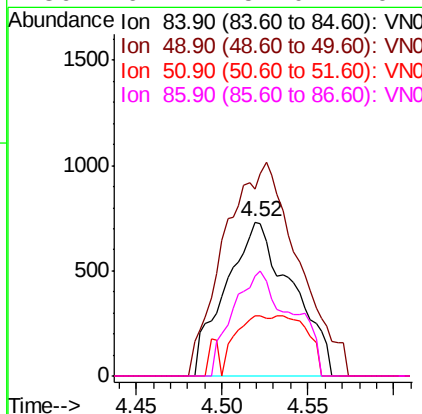
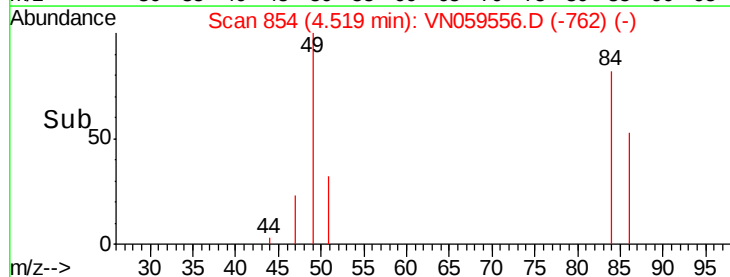
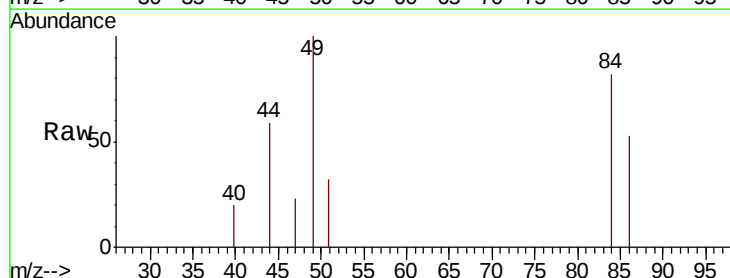
Instrument :
MSVOA_N
ClientSampleId :
VN1211WBL01

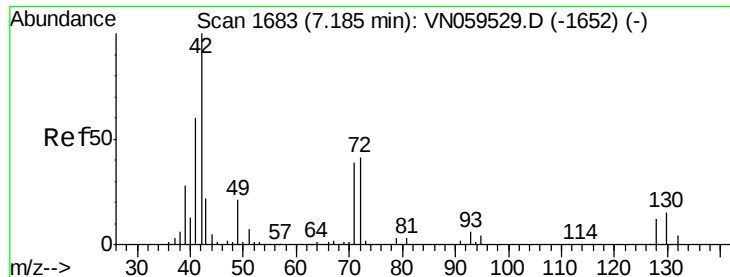
Tot Ion: 76 Resp: 2558
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#20
Methylene Chloride
Concen: 0.410 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

Tgt Ion: 84 Resp: 1981
Ion Ratio Lower Upper
84 100
49 121.6 105.8 158.8
51 39.4 33.7 50.5
86 64.7 51.0 76.4





#29

Tetrahydrofuran

Concen: 0.307 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VN059556.D

Acq: 11 Dec 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VN1211WBL01

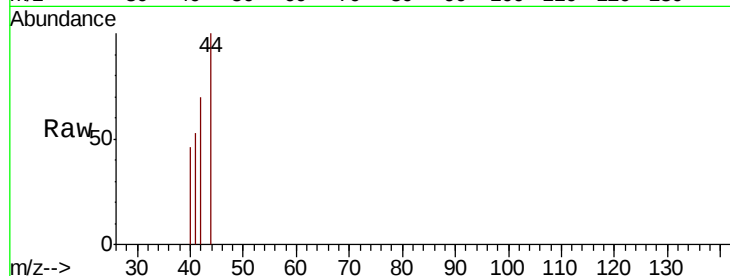
Tot Ion: 42 Resp: 463

Ion Ratio Lower Upper

42 100

72 0.0 32.7 49.1#

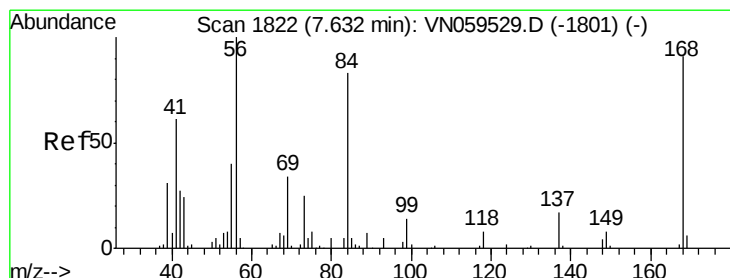
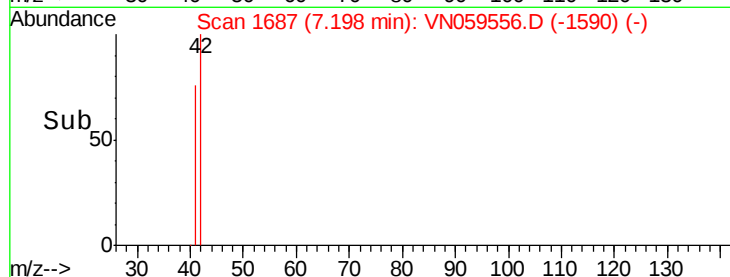
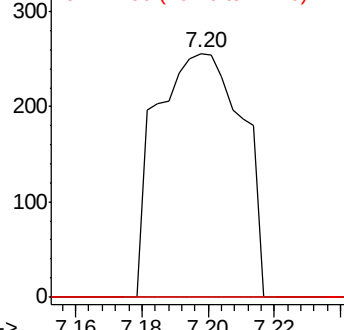
71 0.0 31.4 47.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.144 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059556.D

Acq: 11 Dec 2019 12:30

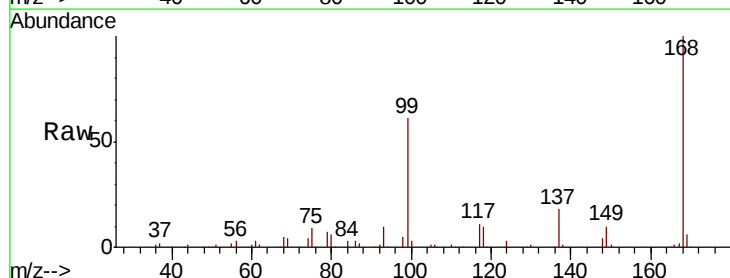
Tgt Ion: 56 Resp: 5951

Ion Ratio Lower Upper

56 100

69 170.8 26.9 40.3#

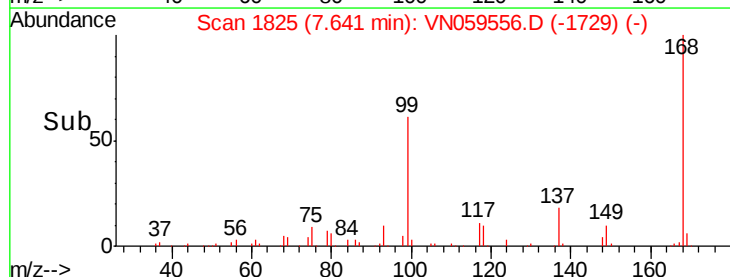
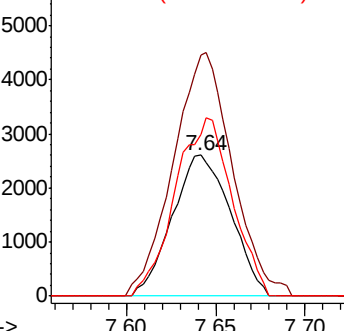
84 115.2 66.5 99.7#

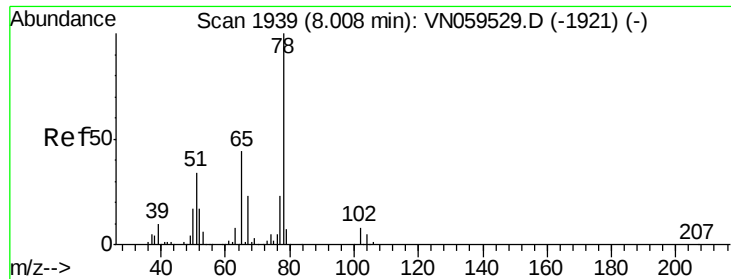


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

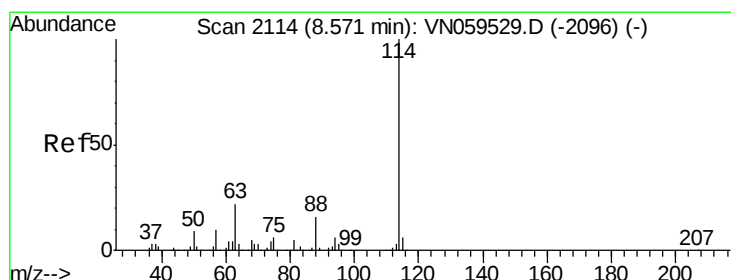
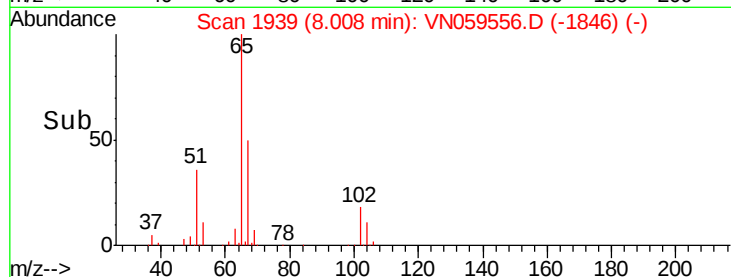
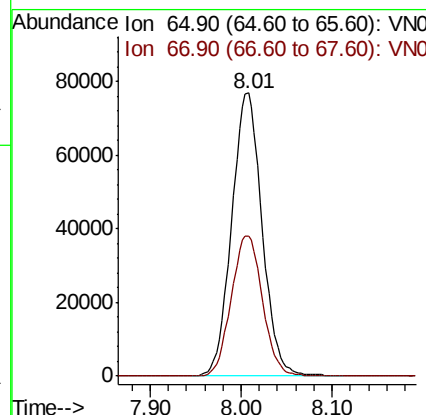
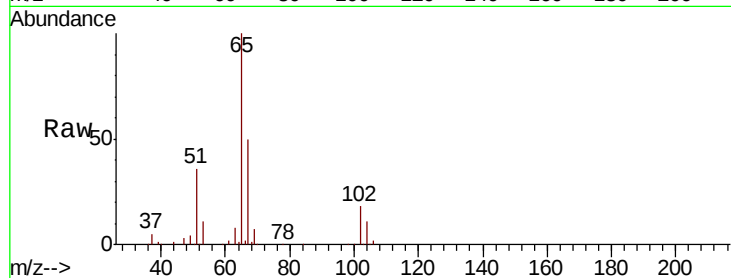




#33
 1,2-Dichloroethane-d4
 Concen: 51.700 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN059556.D
 Acq: 11 Dec 2019 12:30

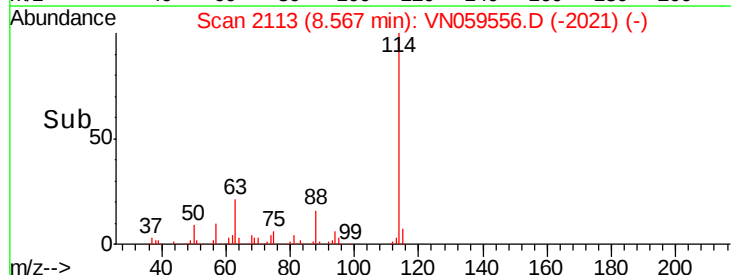
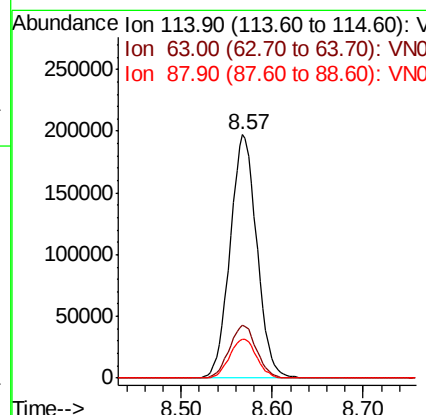
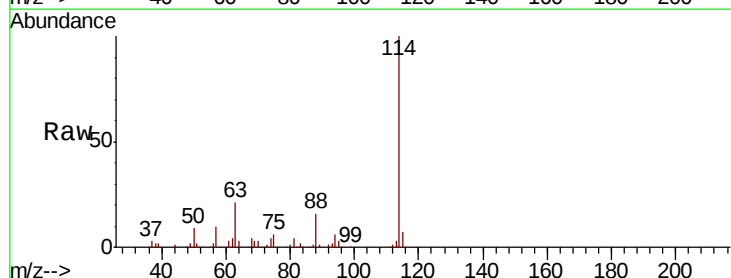
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1211WBL01

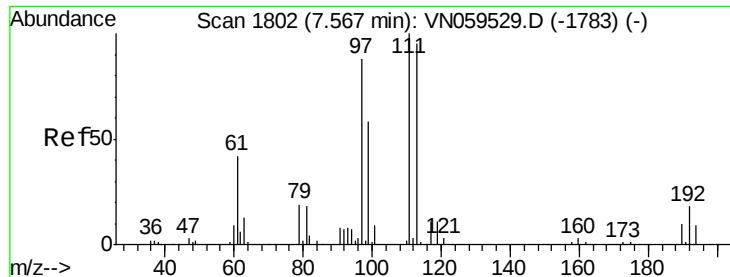
Tot Ion: 65 Resp: 178484
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059556.D
 Acq: 11 Dec 2019 12:30

Tgt Ion: 114 Resp: 402440
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 45.0
 88 16.0 0.0 32.2

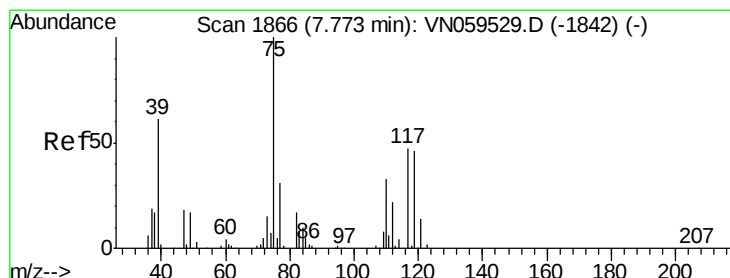
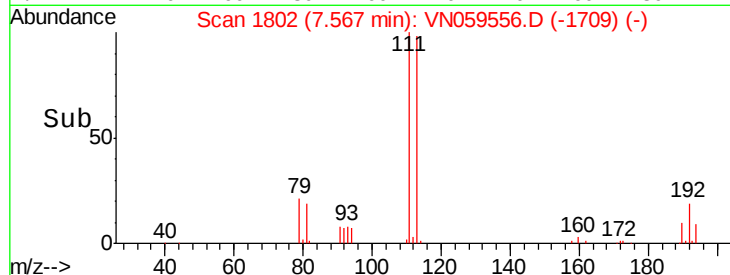
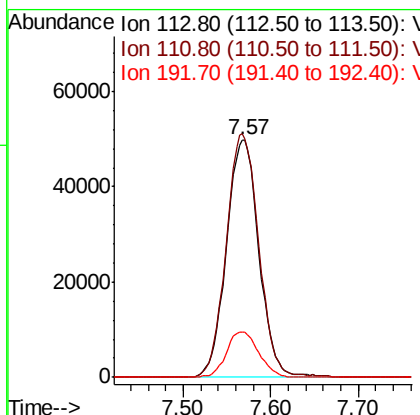
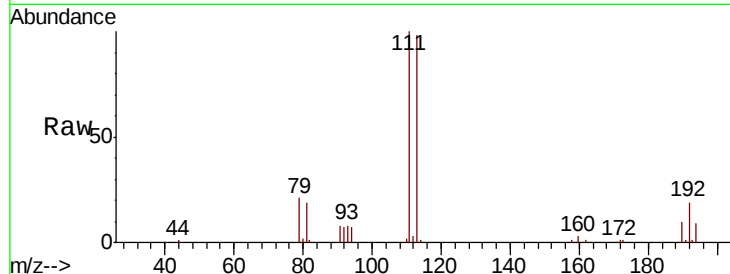




#35
 Dibromofluoromethane
 Concen: 53.372 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059556.D
 Acq: 11 Dec 2019 12:30

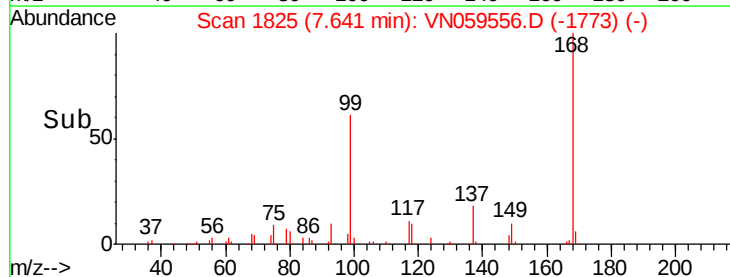
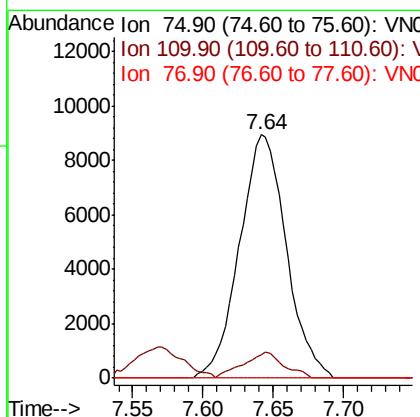
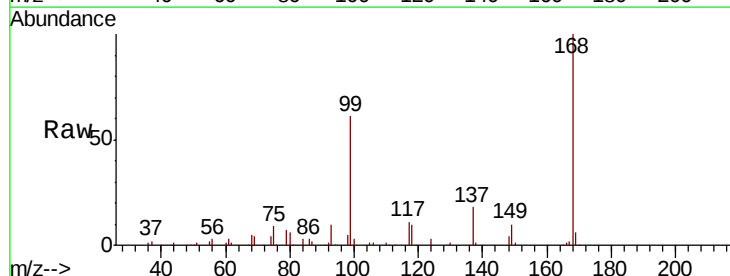
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1211WBL01

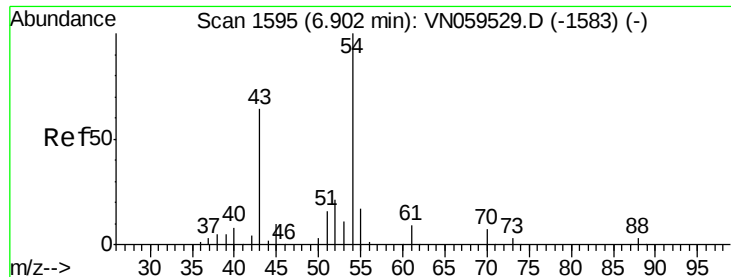
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.2	123.4
192	19.0	14.8	22.2



#36
 1,1-Dichloropropene
 Concen: 5.023 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059556.D
 Acq: 11 Dec 2019 12:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.7	50.0#
77	0.0	24.6	37.0#

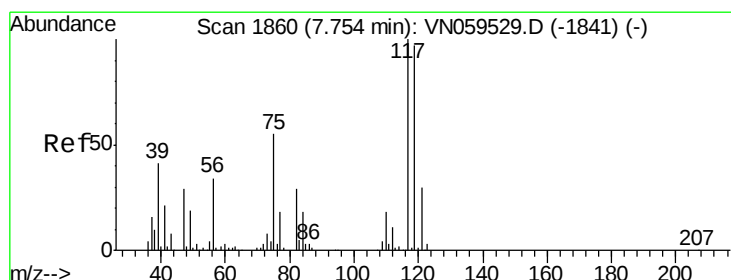
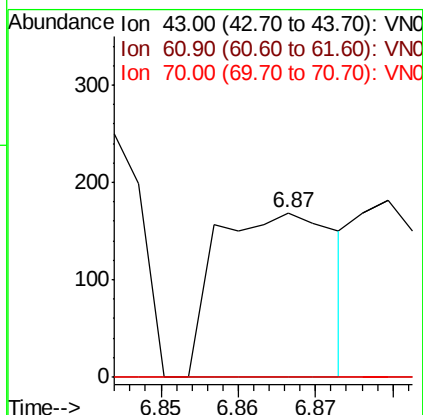
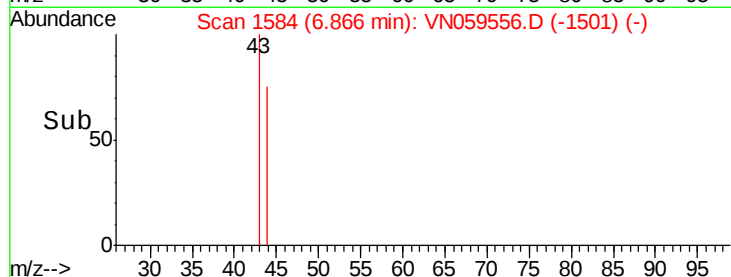
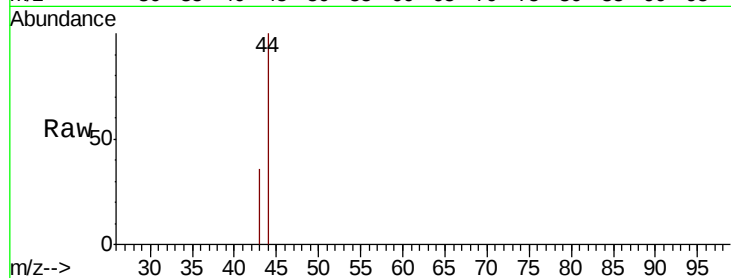




#37
Ethyl Acetate
Concen: 1.574 ug/l
RT: 6.87 min Scan# 1584
Delta R.T. -0.03 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

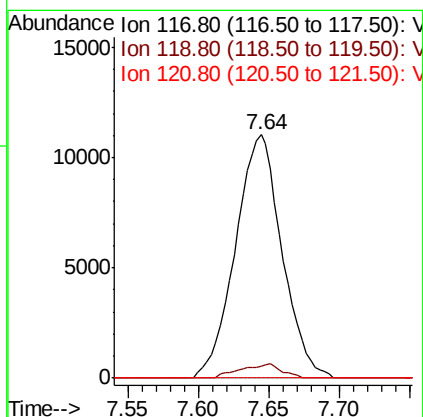
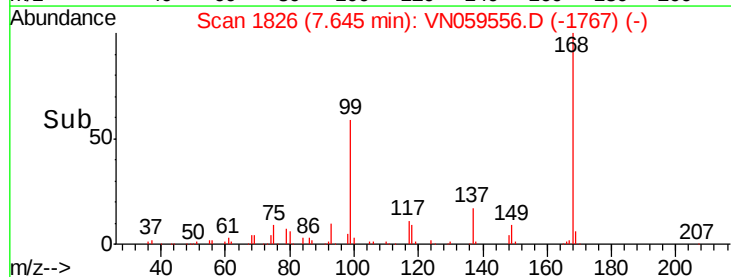
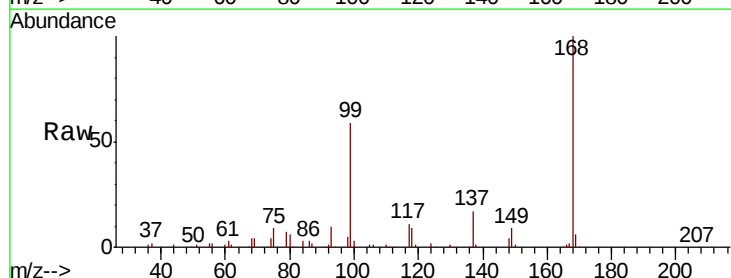
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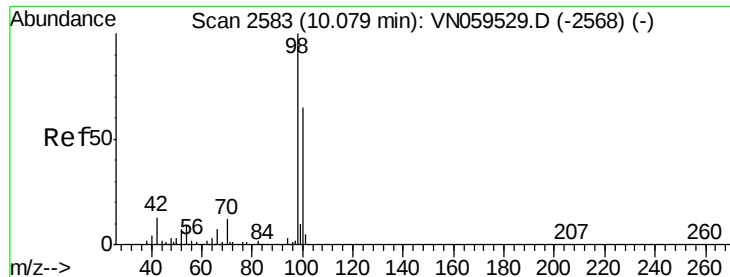
Tot Ion: 43 Resp: 182
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 6.247 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

Tgt Ion: 117 Resp: 25424
Ion Ratio Lower Upper
117 100
119 4.7 77.0 115.4#
121 0.0 24.1 36.1#





#50

Toluene-d8

Concen: 50.347 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059556.D

Acq: 11 Dec 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

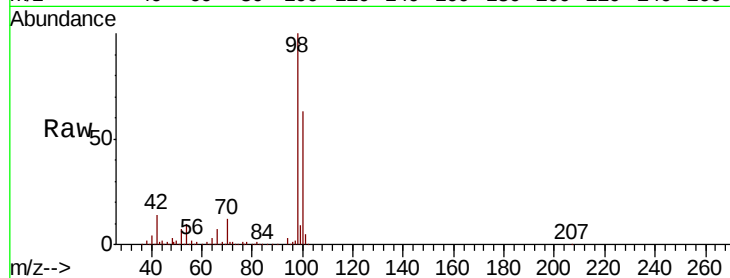
VN1211WBL01

Tot Ion: 98 Resp: 493620

Ion Ratio Lower Upper

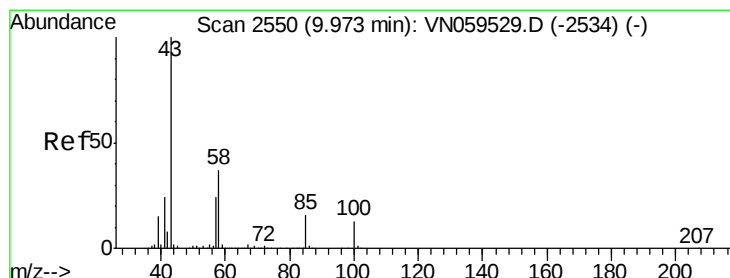
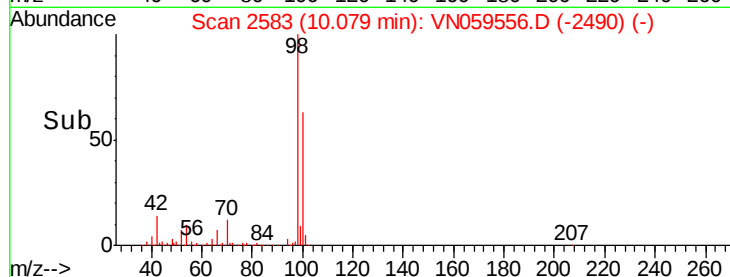
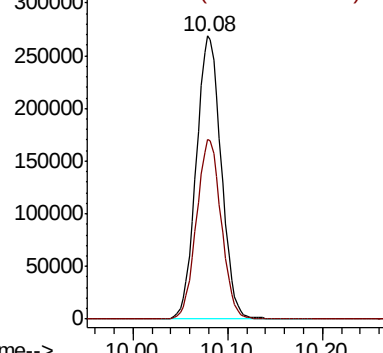
98 100

100 62.9 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: Below Cal

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN059556.D

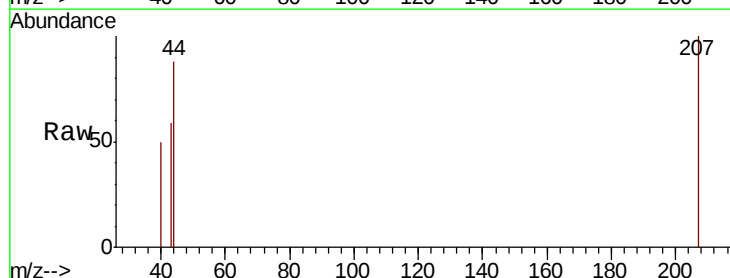
Acq: 11 Dec 2019 12:30

Tgt Ion: 43 Resp: 410

Ion Ratio Lower Upper

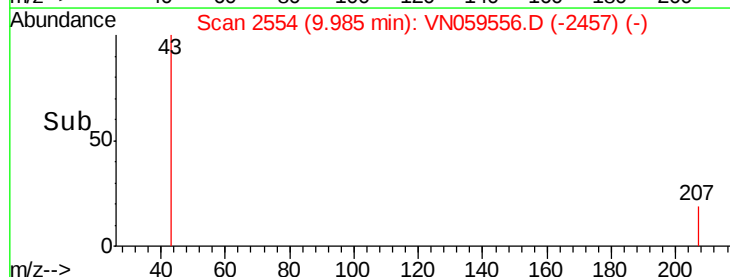
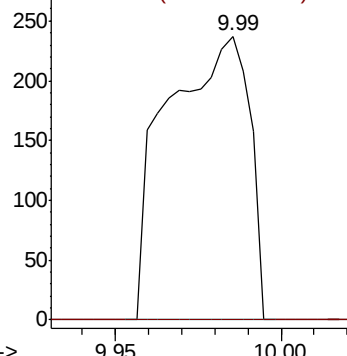
43 100

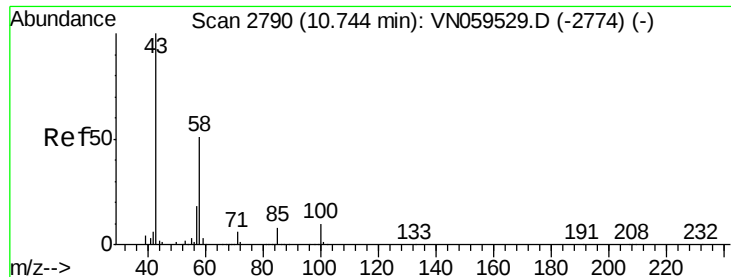
58 0.0 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

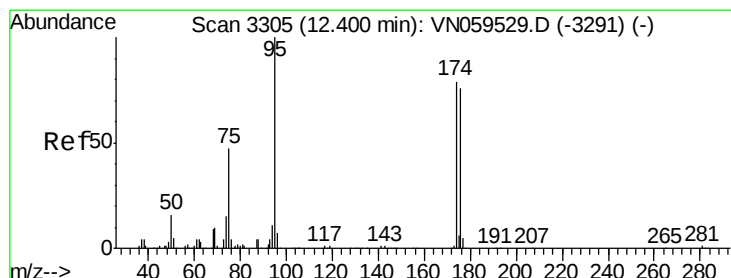
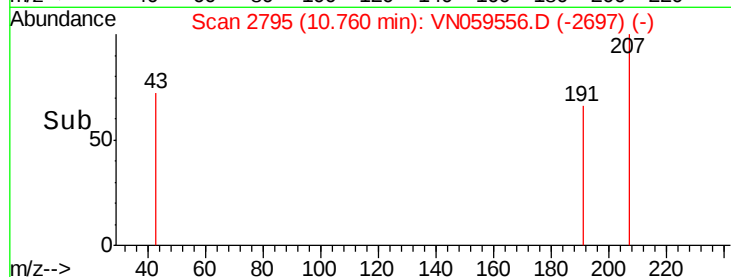
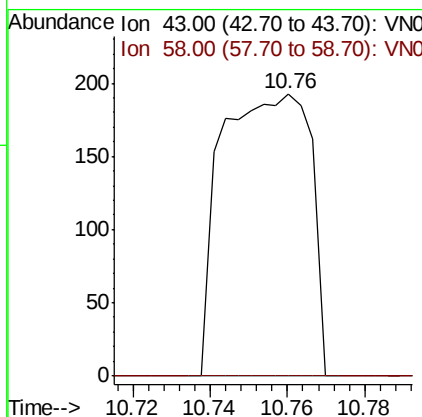
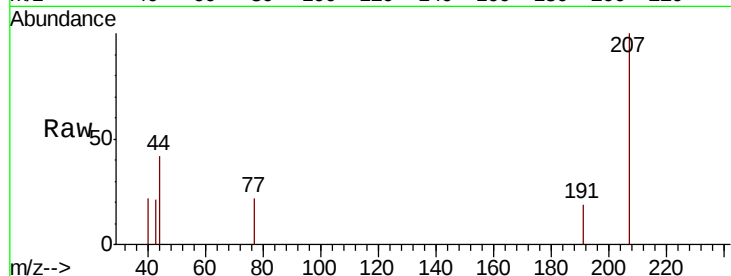




#59
2-Hexanone
Concen: 2.302 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.02 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

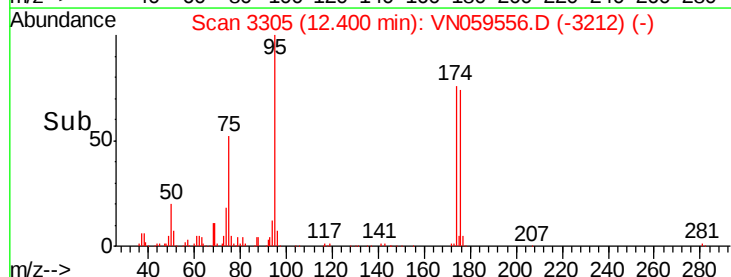
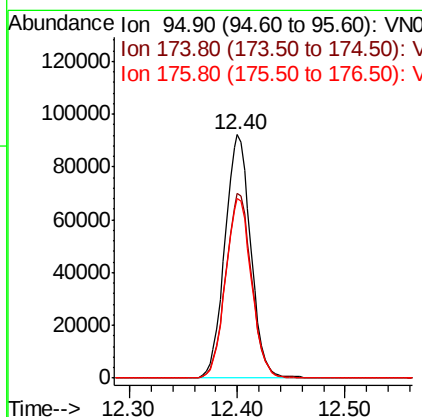
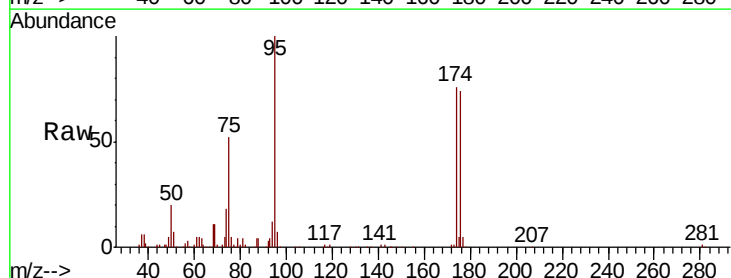
Instrument :
MSVOA_N
ClientSampleId :
VN1211WBL01

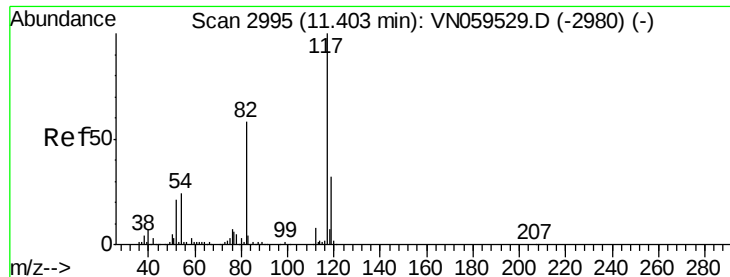
Tot Ion: 43 Resp: 308
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 42.376 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

Tgt Ion: 95 Resp: 153795
Ion Ratio Lower Upper
95 100
174 76.3 0.0 158.0
176 73.9 0.0 155.4

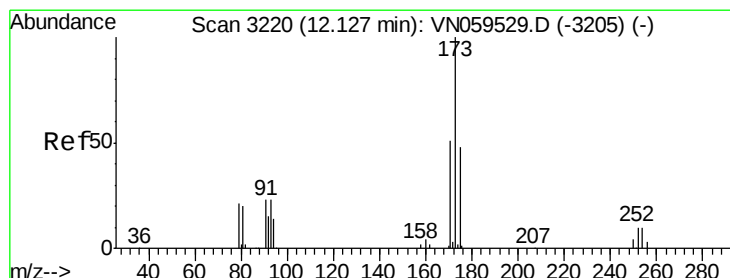
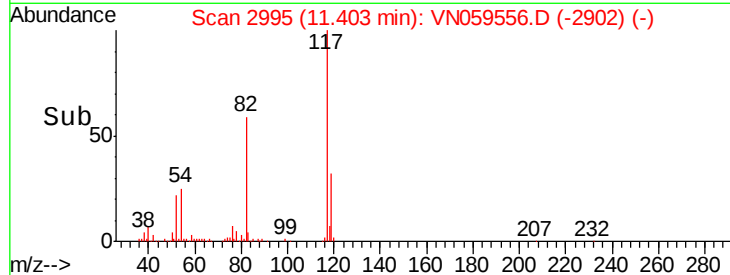
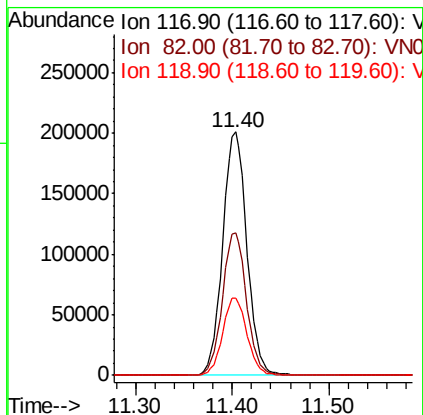
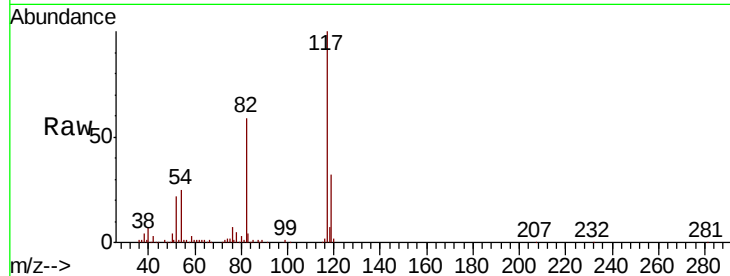




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

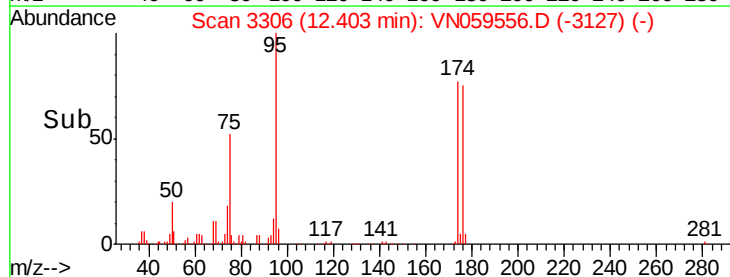
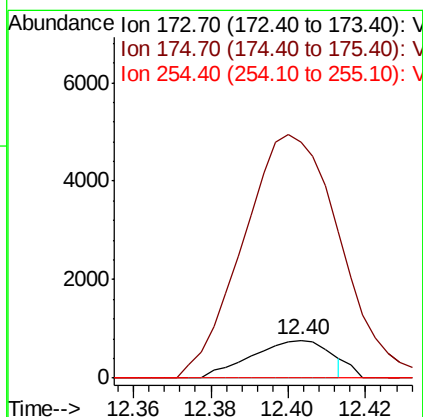
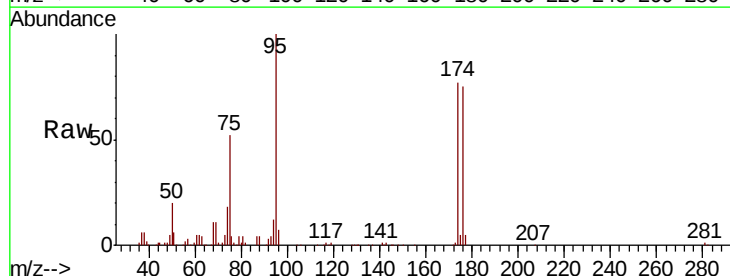
Instrument :
MSVOA_N
ClientSampled :
VN1211WBL01

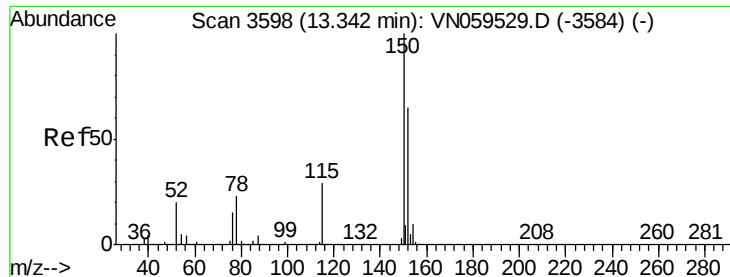
Tot Ion:117 Resp: 348945
Ion Ratio Lower Upper
117 100
82 58.8 46.5 69.7
119 31.9 25.2 37.8



#71
Bromoform
Concen: 0.501 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

Tgt Ion:173 Resp: 1076
Ion Ratio Lower Upper
173 100
175 707.2 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN059556.D

Acq: 11 Dec 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VN1211WBL01

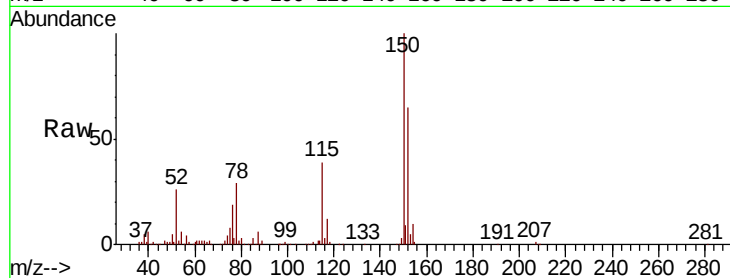
Tot Ion:152 Resp: 131764

Ion Ratio Lower Upper

152 100

115 60.8 29.4 88.2

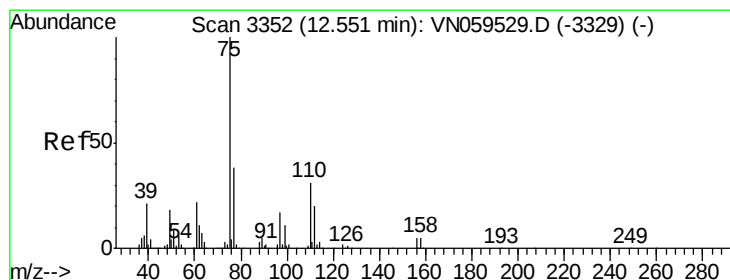
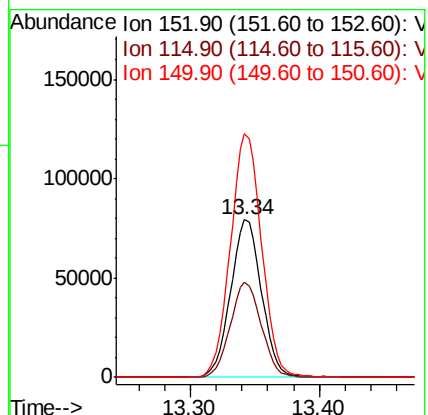
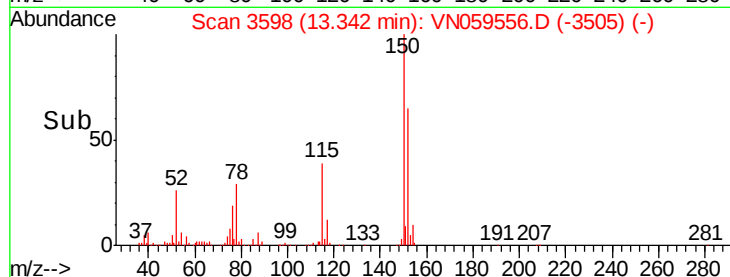
150 155.7 0.0 342.4



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: 24.389 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059556.D

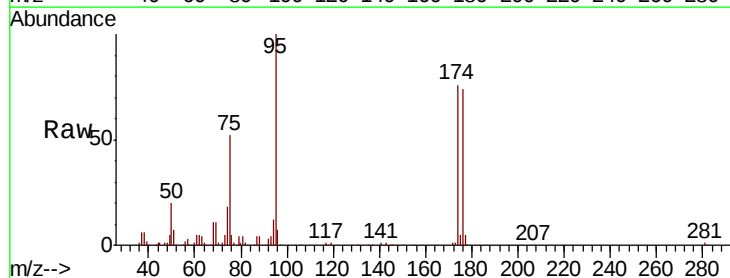
Acq: 11 Dec 2019 12:30

Tgt Ion: 75 Resp: 82179

Ion Ratio Lower Upper

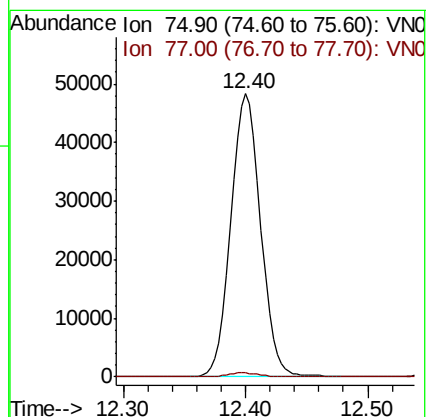
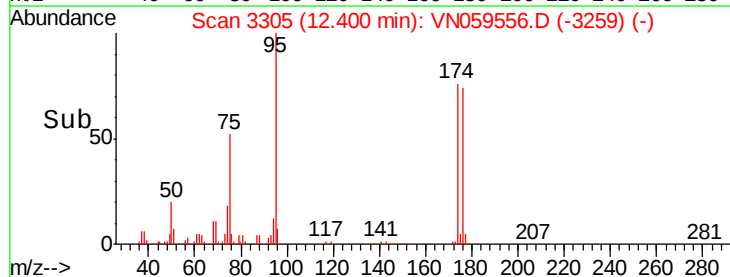
75 100

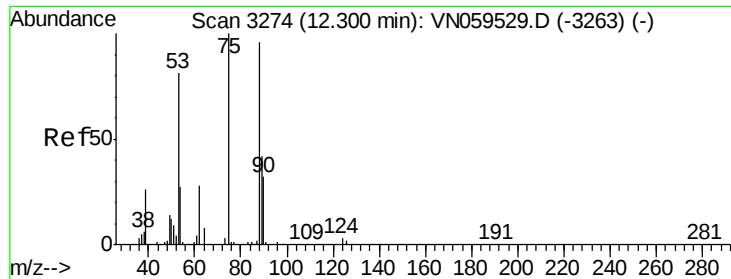
77 1.4 0.0 0.0#



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: 65.618 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059556.D

Acq: 11 Dec 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

VN1211WBL01

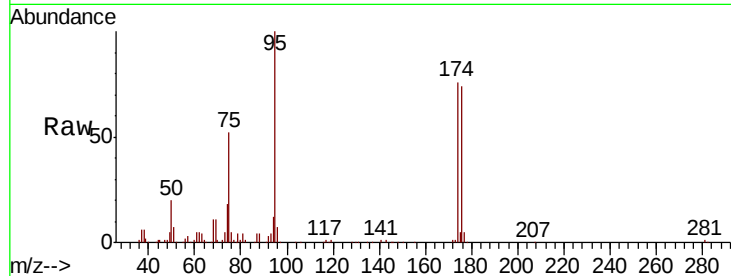
Tot Ion: 75 Resp: 82179

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.6#

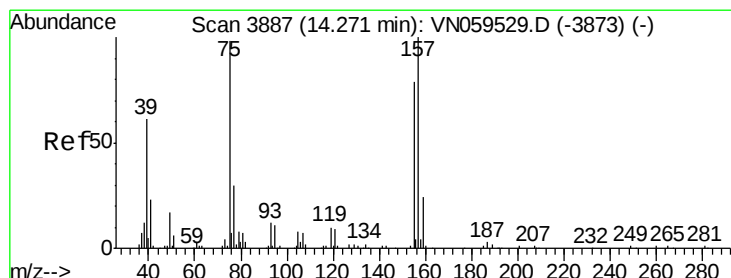
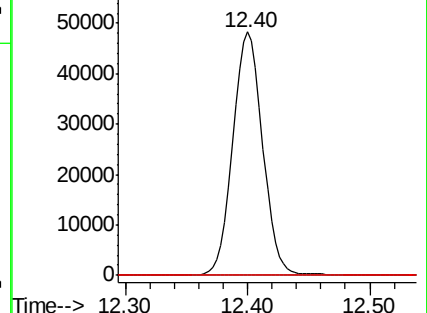
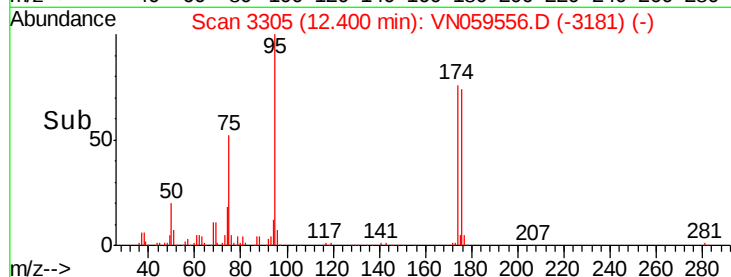
89 0.0 35.5 53.3#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.446 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN059556.D

Acq: 11 Dec 2019 12:30

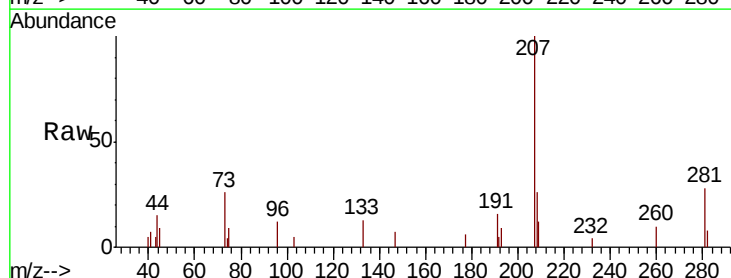
Tgt Ion: 75 Resp: 293

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.1#

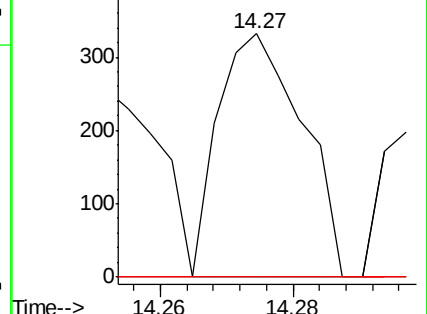
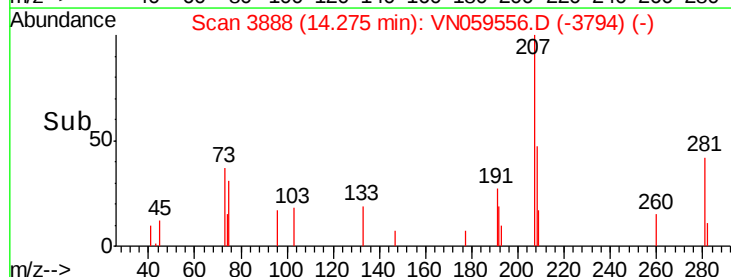
157 0.0 51.1 153.3#

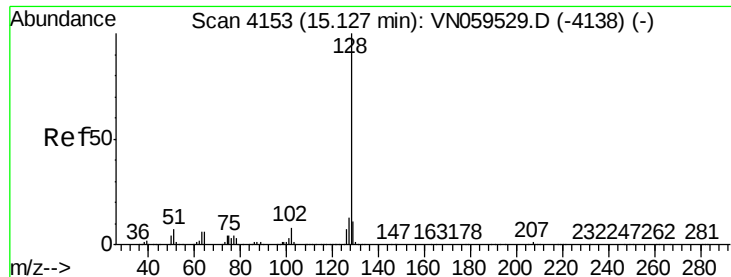


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

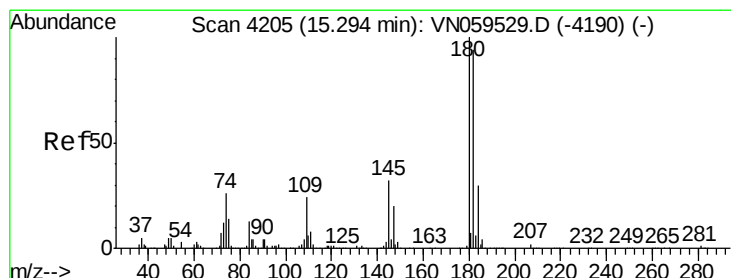
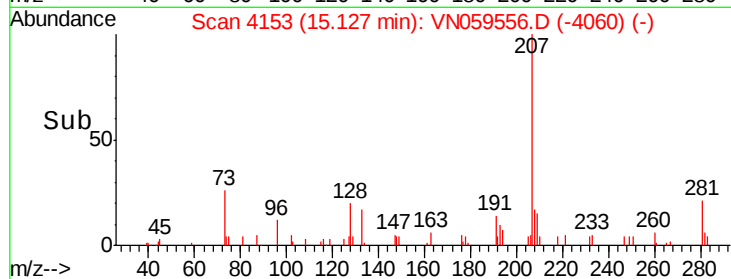
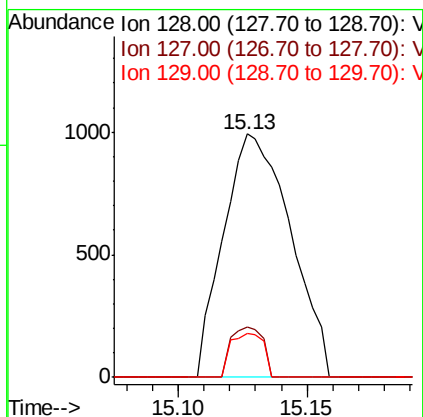
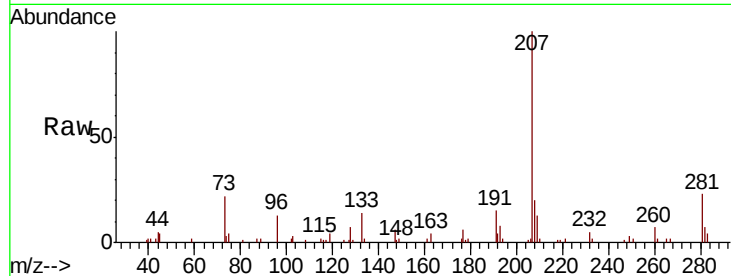




#95
Naphthalene
Concen: 0.209 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

Instrument :
MSVOA_N
ClientSampled :
VN1211WBL01

Tot Ion:128 Resp: 1801
Ion Ratio Lower Upper
128 100
127 9.7 10.2 15.4#
129 8.8 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 2.593 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN059556.D
Acq: 11 Dec 2019 12:30

Tgt Ion:180 Resp: 550
Ion Ratio Lower Upper
180 100
182 95.3 47.1 141.4
145 86.0 15.8 47.4#

