

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060295.D
 Acq On : 28 Feb 2020 19:13
 Operator : JC/MD
 Sample : L1717-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 29 00:40:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	193157	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	317207	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	297091	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144364	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	125161	50.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.00%	
35) Dibromofluoromethane	7.57	113	90033	61.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	122.30%	
50) Toluene-d8	10.08	98	387938	52.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.12%	
62) 4-Bromofluorobenzene	12.40	95	146602	51.90	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.80%	

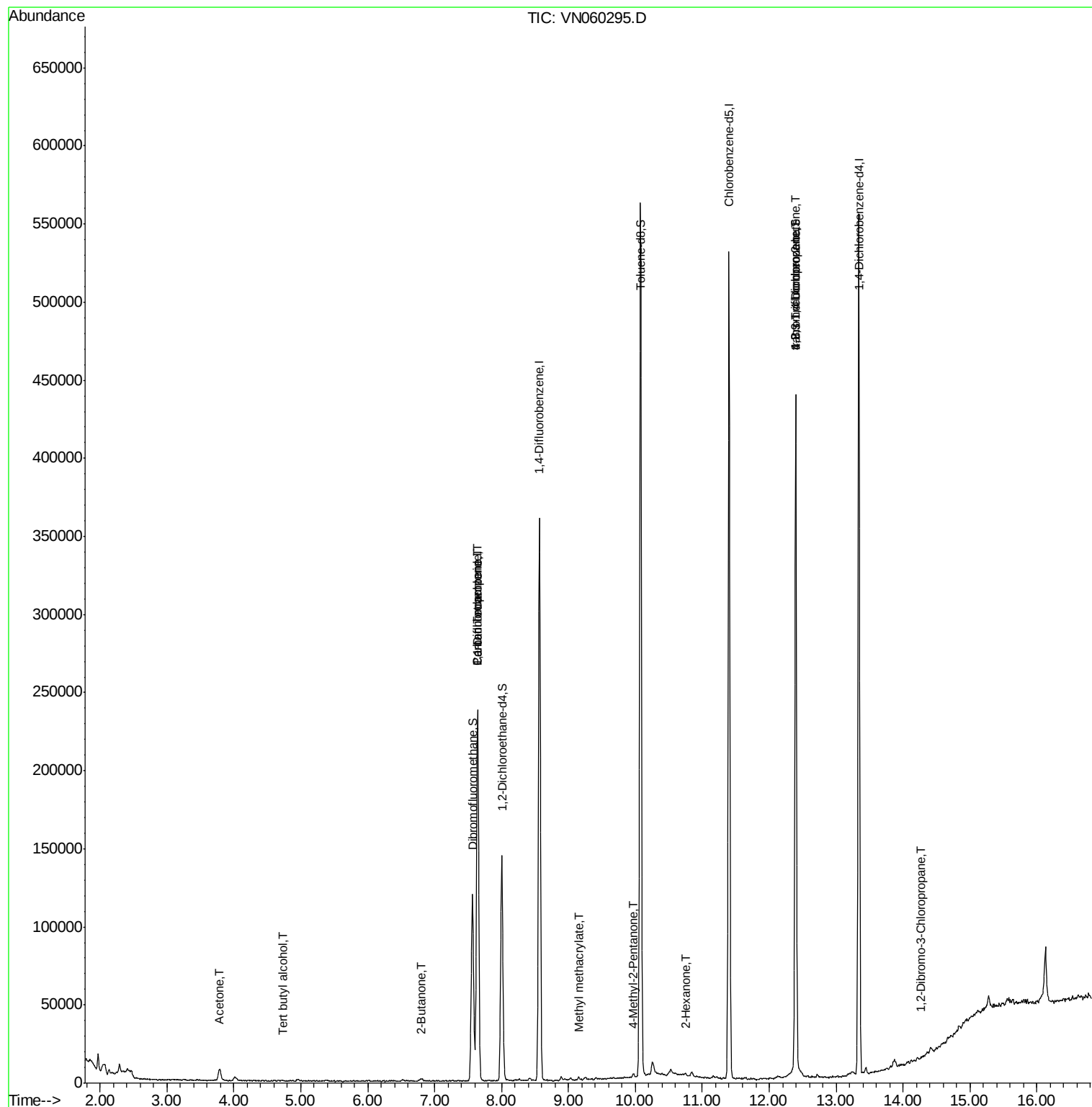
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	1015	2.758	ug/l #	73
12) 1,1-Dichloroethene	3.71	96	30	Below Cal	#	1
16) Acetone	3.79	43	13972	17.459	ug/l	98
17) Carbon Disulfide	4.03	76	92	Below Cal	#	75
21) trans-1,2-Dichloroethene	5.05	96	123	Below Cal	#	1
25) 2-Butanone	6.80	43	1595	1.234	ug/l	94
31) Cyclohexane	7.64	56	4165	Below Cal	#	2
36) 1,1-Dichloropropene	7.64	75	14868	4.918	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18671	6.343	ug/l #	16
48) Methyl methacrylate	9.16	41	652	0.285	ug/l #	36
51) 4-Methyl-2-Pentanone	9.97	43	1346	0.474	ug/l	89
59) 2-Hexanone	10.74	43	657	0.315	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	76584	24.179	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76584	66.746	ug/l #	8
87) 1,3-Dichlorobenzene	13.27	146	123	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.27	146	123	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	14.26	75	191	0.290	ug/l #	3
95) Naphthalene	15.13	128	262	Below Cal	#	69

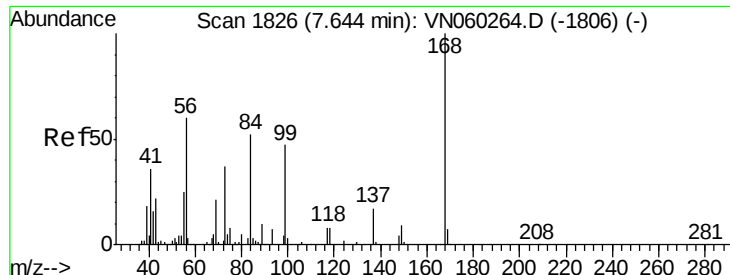
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Feb 27 13:52:50 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060295.D

Acq: 28 Feb 2020 19:13

Instrument :

MSVOA_N

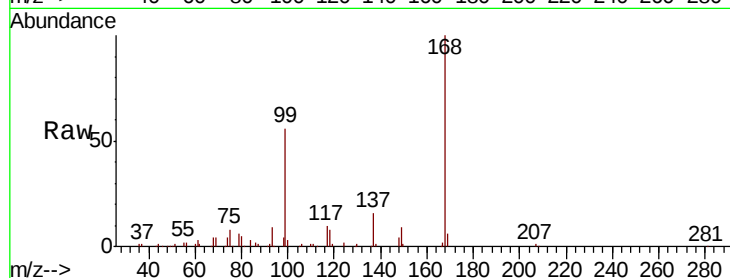
ClientSampleId :

Tot Ion:168 Resp: 193157

Ion Ratio Lower Upper

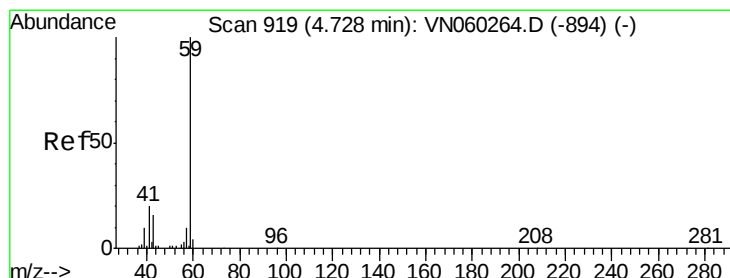
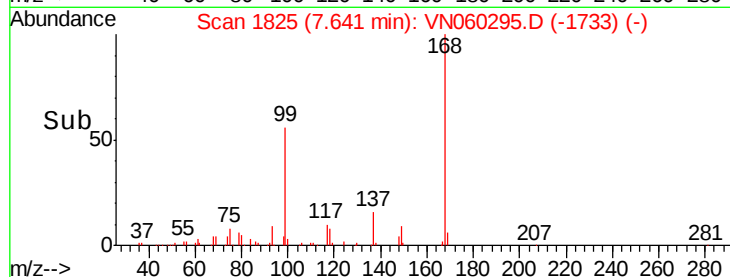
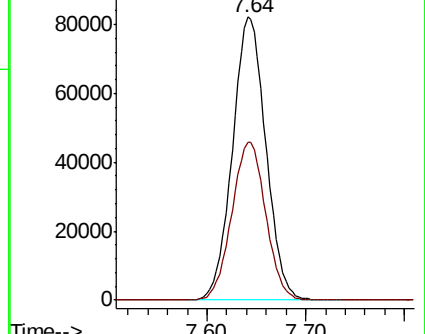
168 100

99 55.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 2.758 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.00 min

Lab File: VN060295.D

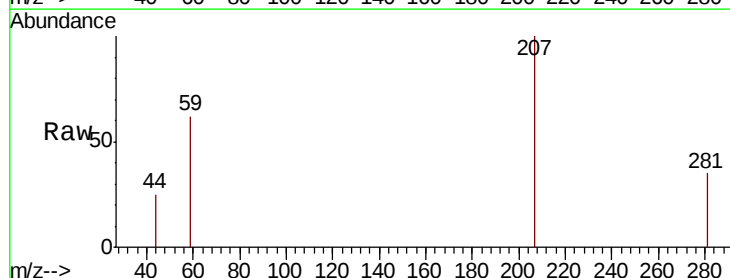
Acq: 28 Feb 2020 19:13

Tgt Ion: 59 Resp: 1015

Ion Ratio Lower Upper

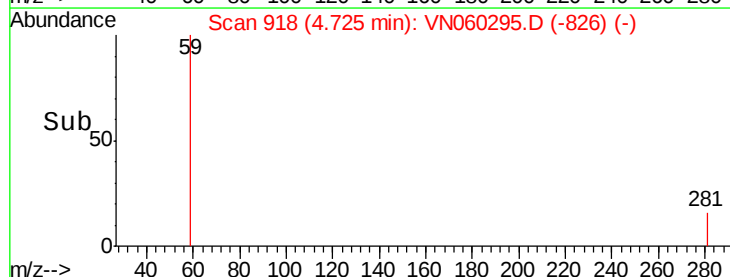
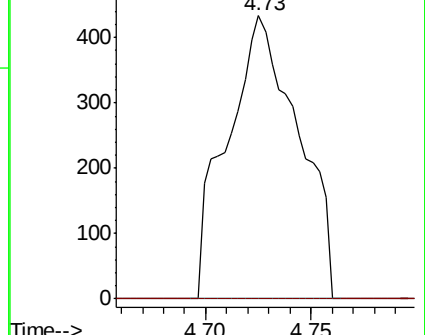
59 100

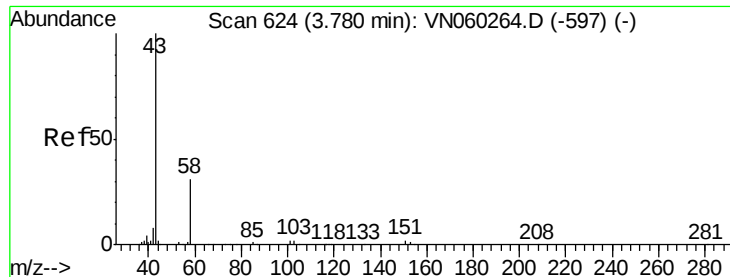
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 17.459 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060295.D

Acq: 28 Feb 2020 19:13

Instrument :

MSVOA_N

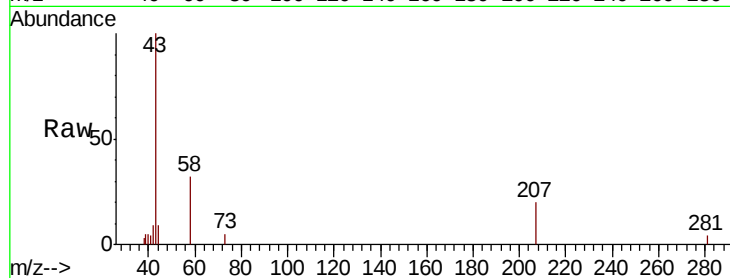
ClientSampled :

Tot Ion: 43 Resp: 13972

Ion Ratio Lower Upper

43 100

58 32.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-597) (-)

3.79

5000

4000

3000

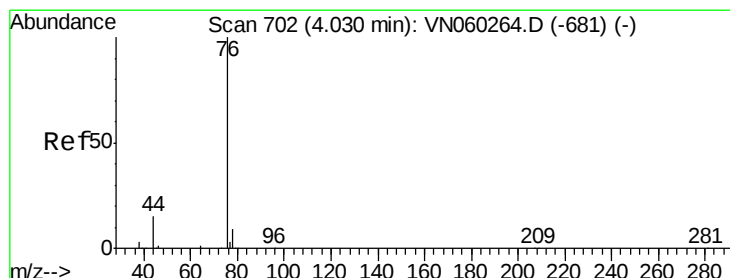
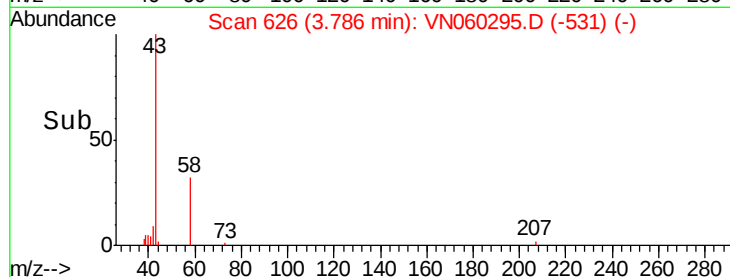
2000

1000

0

3.70 3.80 3.90

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN060295.D

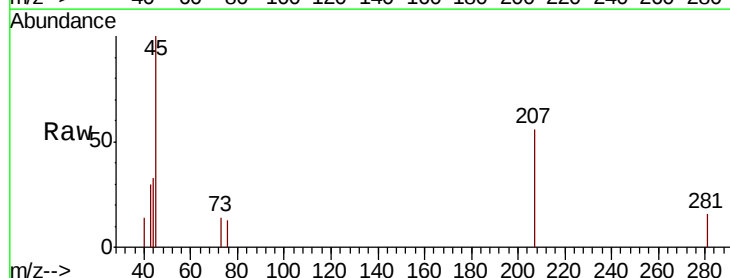
Acq: 28 Feb 2020 19:13

Tgt Ion: 76 Resp: 92

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN060264.D (-681) (-)

4.03

150

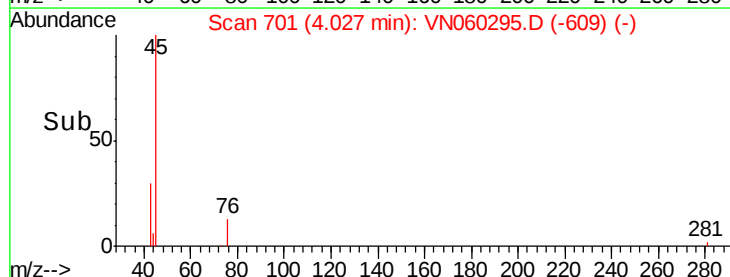
100

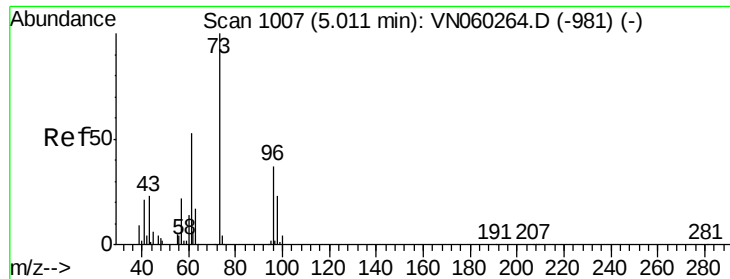
50

0

4.01 4.02 4.03 4.04

Time-->





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.05 min Scan# 1018

Delta R.T. 0.04 min

Lab File: VN060295.D

Acq: 28 Feb 2020 19:13

Instrument :

MSVOA_N

ClientSampleId :

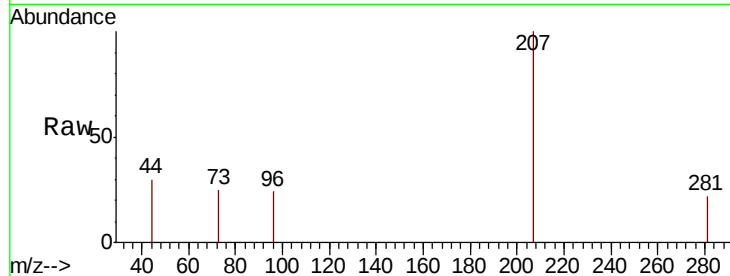
Tot Ion: 96 Resp: 123

Ion Ratio Lower Upper

96 100

61 0.0 113.8 170.8#

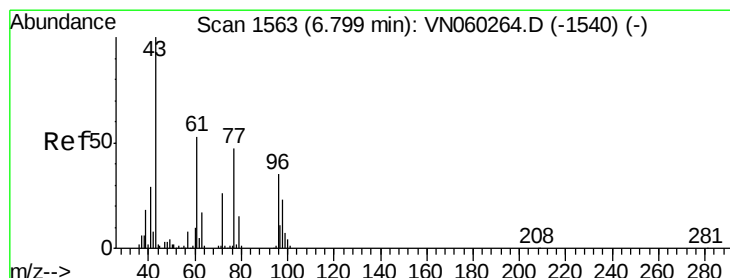
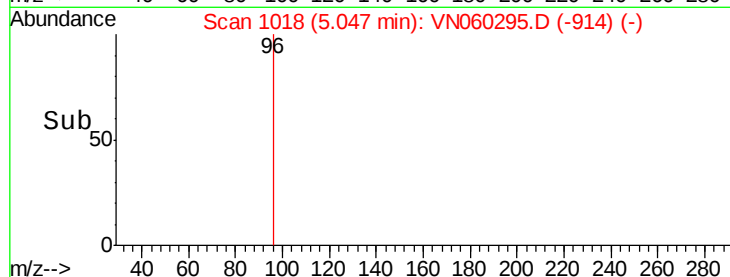
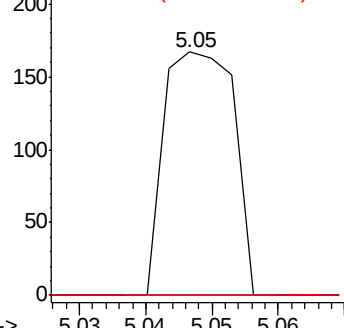
98 0.0 48.8 73.2#



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



#25

2-Butanone

Concen: 1.234 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060295.D

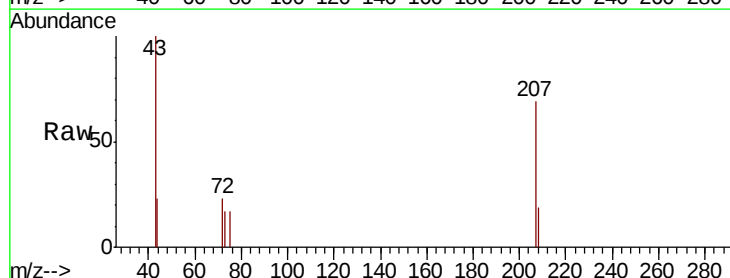
Acq: 28 Feb 2020 19:13

Tgt Ion: 43 Resp: 1595

Ion Ratio Lower Upper

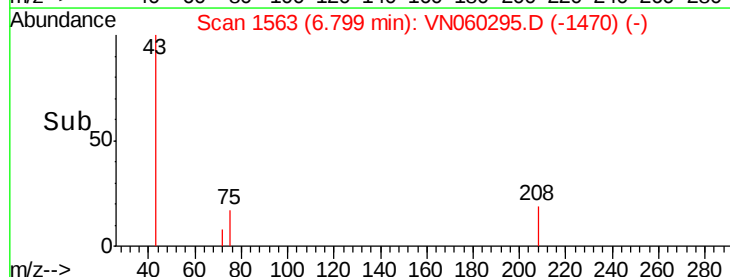
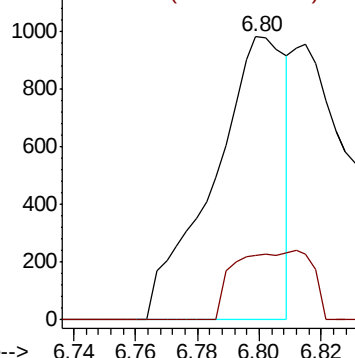
43 100

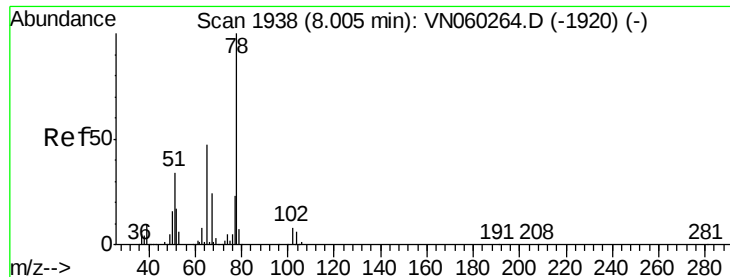
72 23.0 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

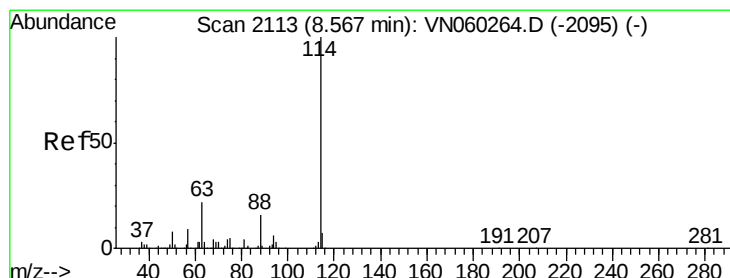
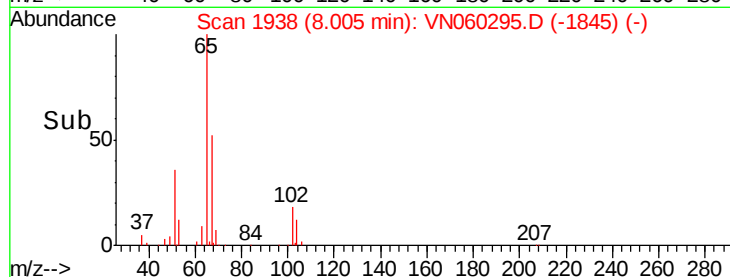
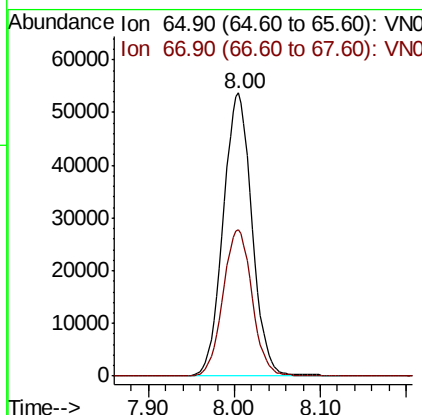
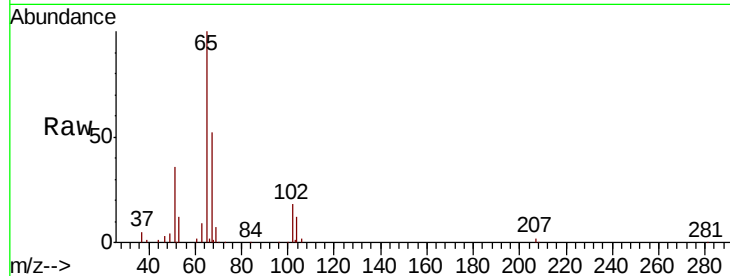




#33
 1,2-Dichloroethane-d4
 Concen: 50.504 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060295.D
 Acq: 28 Feb 2020 19:13

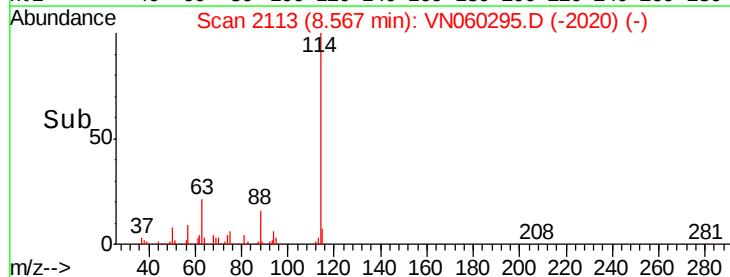
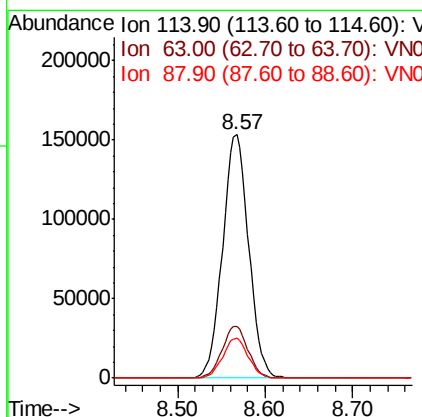
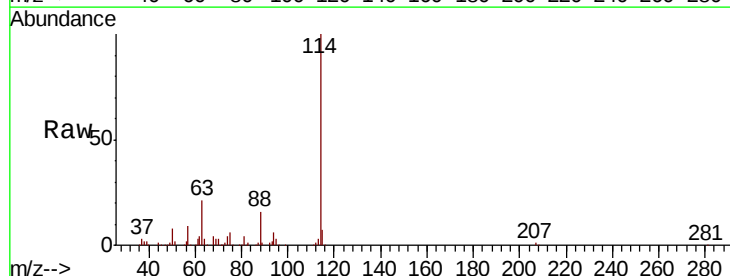
Instrument :
 MSVOA_N
 ClientSampled :

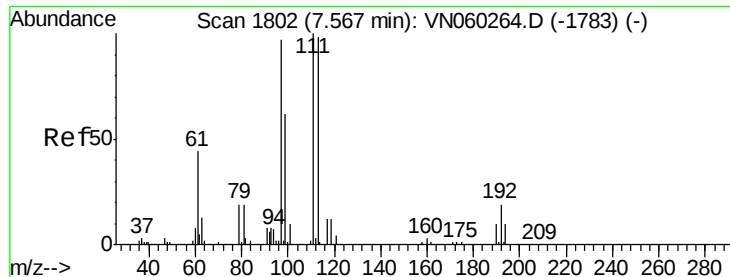
Tot Ion: 65 Resp: 125161
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060295.D
 Acq: 28 Feb 2020 19:13

Tgt Ion: 114 Resp: 317207
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 43.2
 88 16.4 0.0 31.6

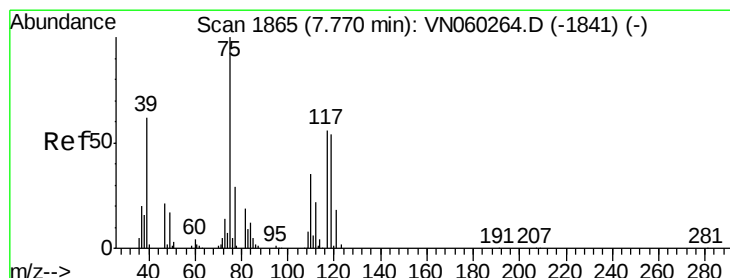
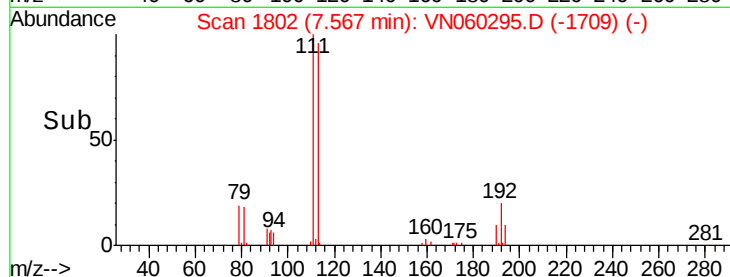
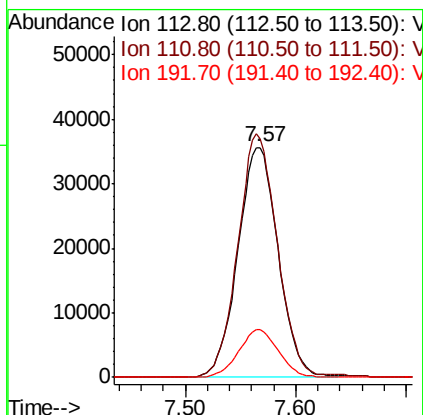
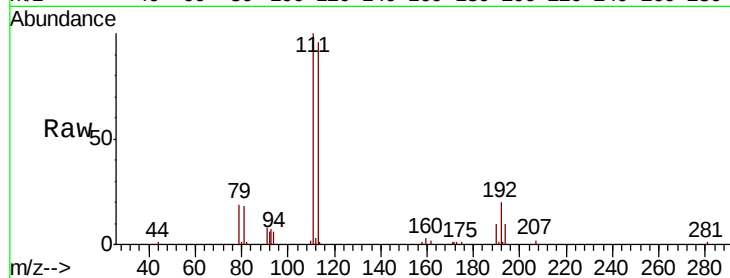




#35
 Dibromofluoromethane
 Concen: 61.148 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060295.D
 Acq: 28 Feb 2020 19:13

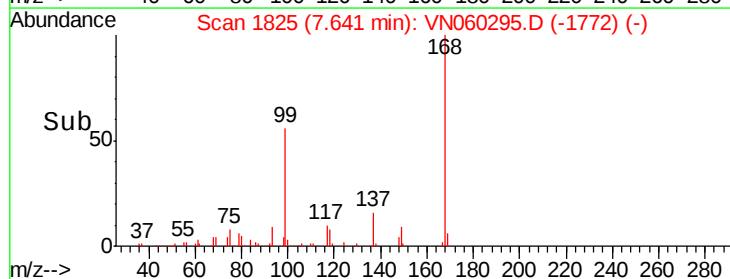
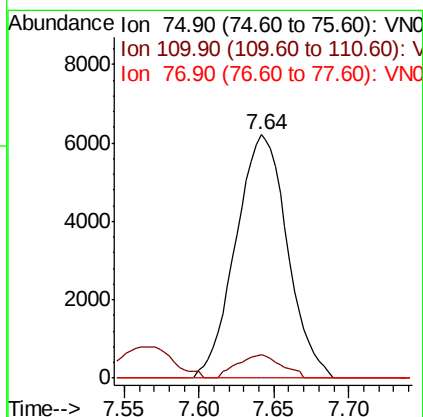
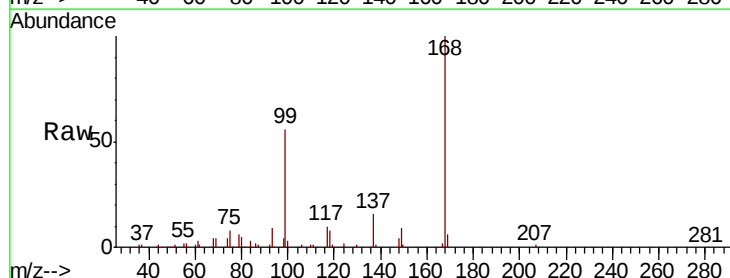
Instrument :
 MSVOA_N
 ClientSampled :

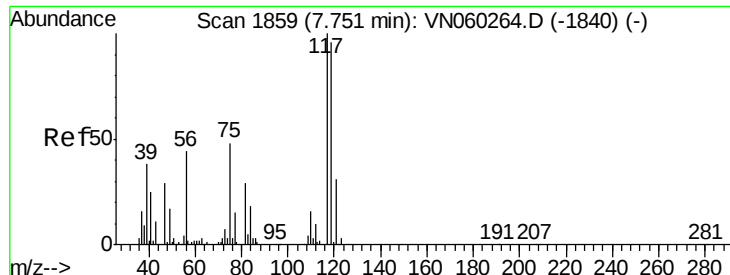
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.4	123.6
192	20.3	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.918 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060295.D
 Acq: 28 Feb 2020 19:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.3	52.0#
77	0.0	24.2	36.2#





#38

Carbon Tetrachloride

Concen: 6.343 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060295.D

Acq: 28 Feb 2020 19:13

Instrument :

MSVOA_N

ClientSampleId :

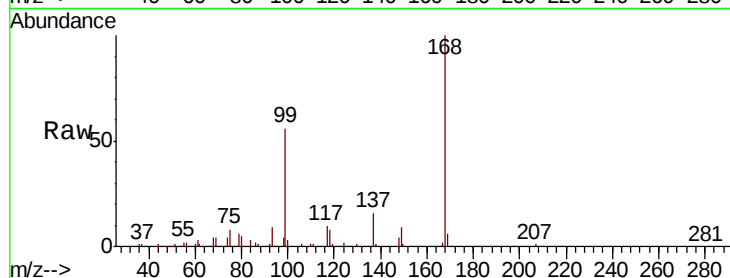
Tot Ion:117 Resp: 18671

Ion Ratio Lower Upper

117 100

119 5.2 76.7 115.1#

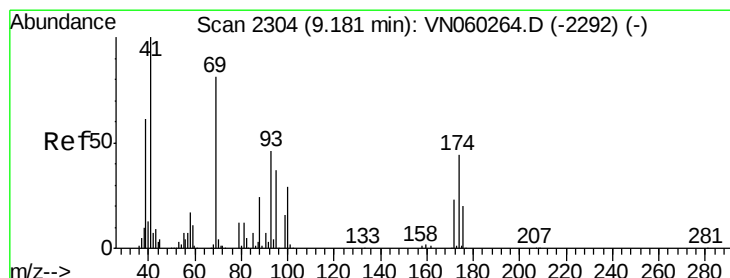
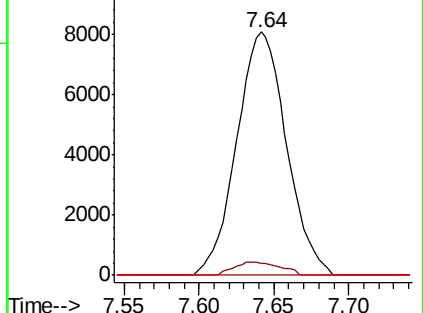
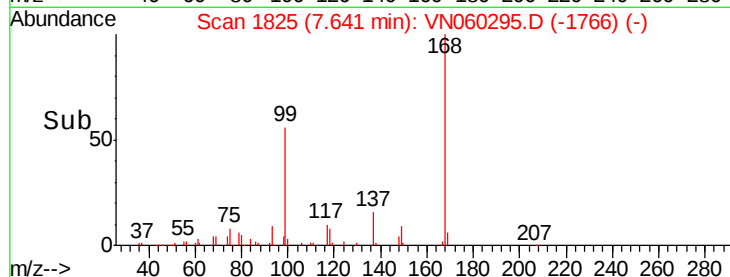
121 0.0 24.5 36.7#



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



#48

Methyl methacrylate

Concen: 0.285 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060295.D

Acq: 28 Feb 2020 19:13

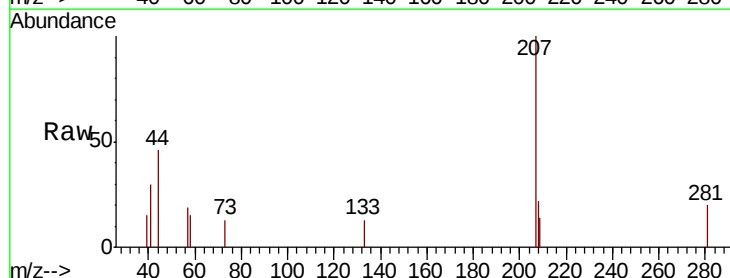
Tgt Ion: 41 Resp: 652

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

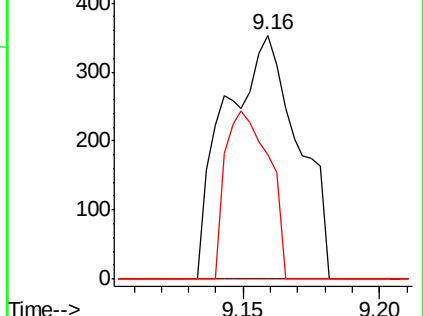
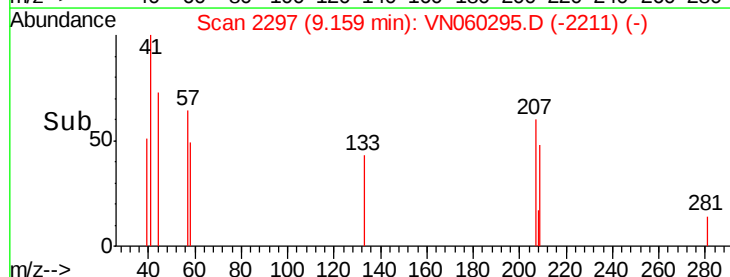
39 41.7 50.1 75.1#

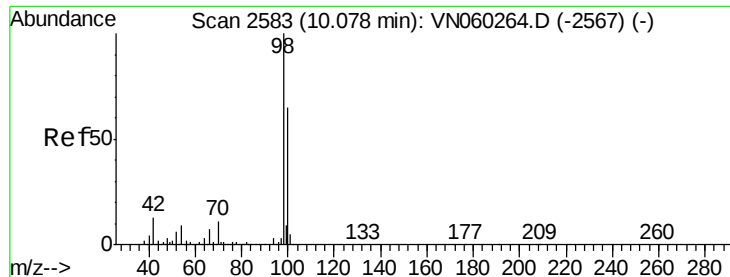


Abundance Ion 41.00 (40.70 to 41.70): V

Ion 69.00 (68.70 to 69.70): V

Ion 39.00 (38.70 to 39.70): V





#50

Toluene-d8

Concen: 52.059 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060295.D

Acq: 28 Feb 2020 19:13

Instrument :

MSVOA_N

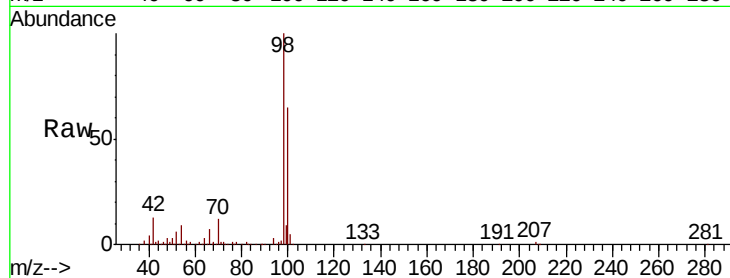
ClientSampleId :

Tot Ion: 98 Resp: 387938

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060295.D (-2490) (-)

10.08

250000

200000

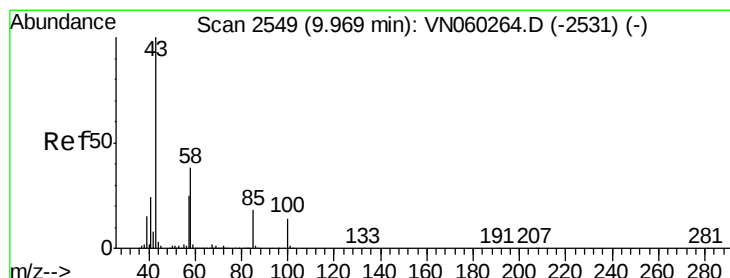
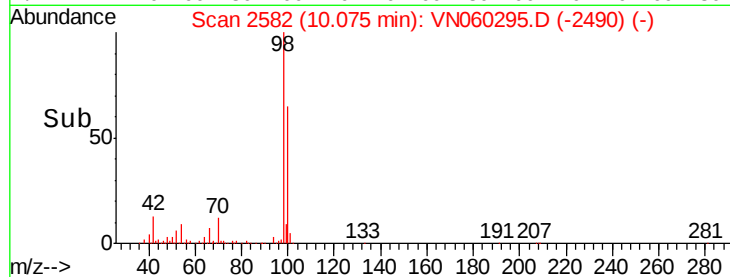
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.474 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060295.D

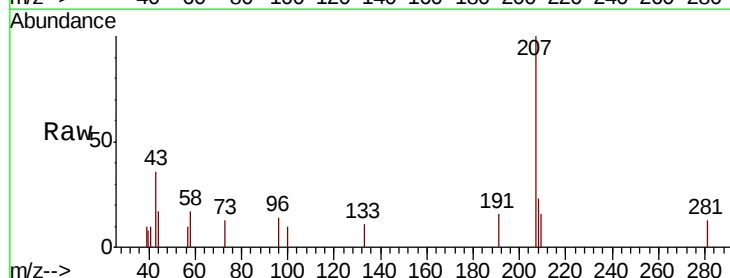
Acq: 28 Feb 2020 19:13

Tgt Ion: 43 Resp: 1346

Ion Ratio Lower Upper

43 100

58 31.7 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060295.D (-2456) (-)

9.97

800

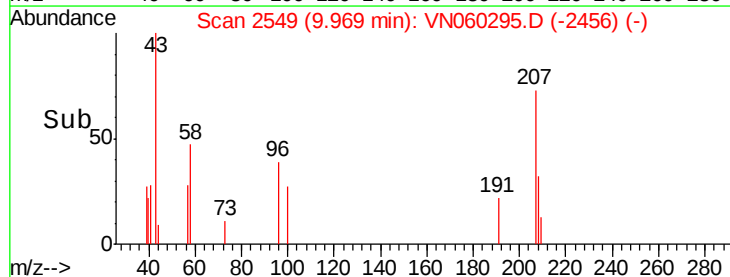
600

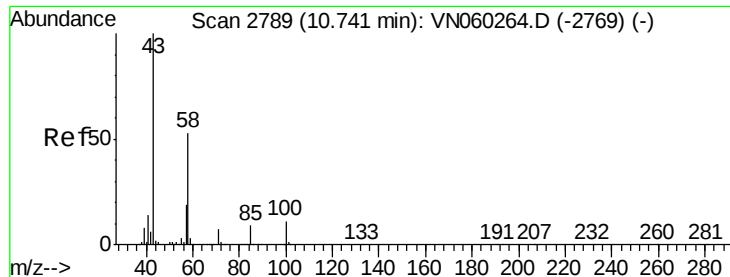
400

200

0

Time-->

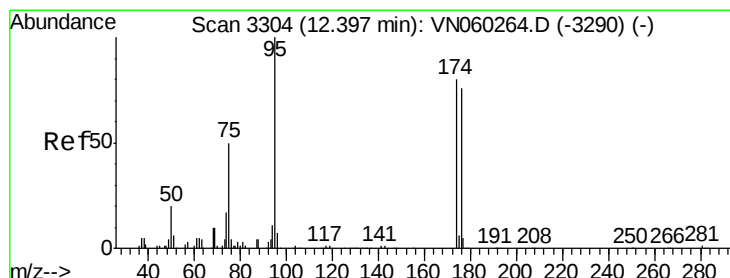
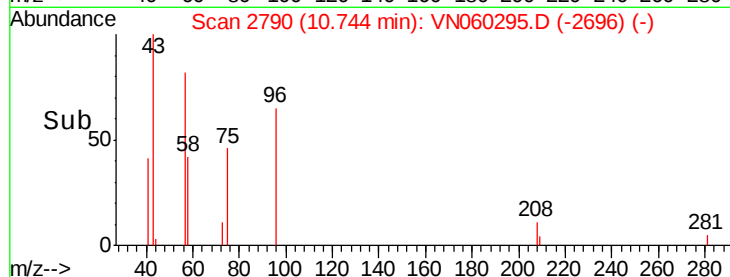
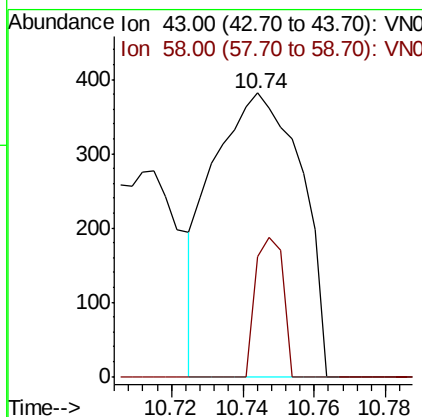
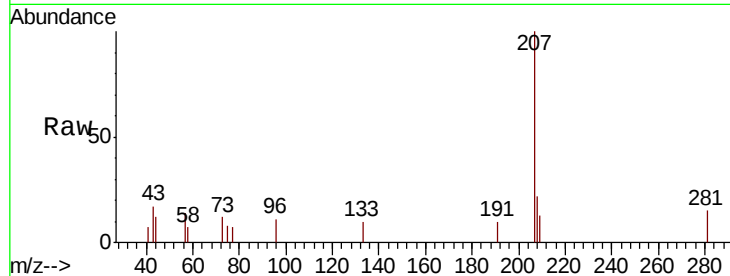




#59
2-Hexanone
Concen: 0.315 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN060295.D
Acq: 28 Feb 2020 19:13

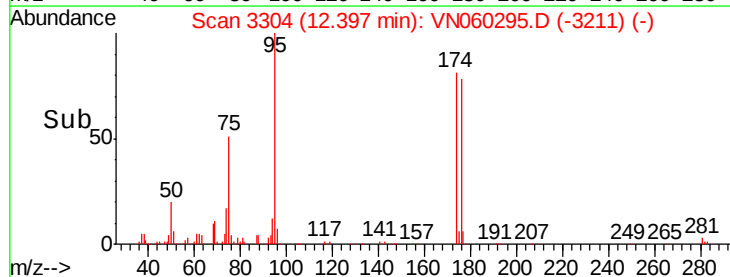
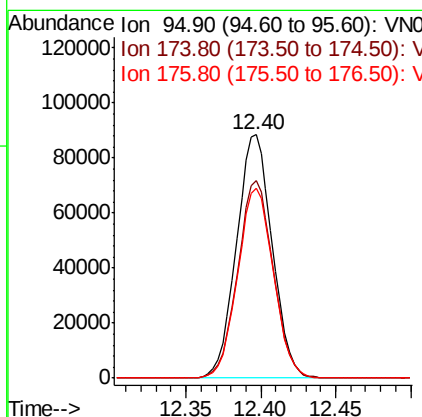
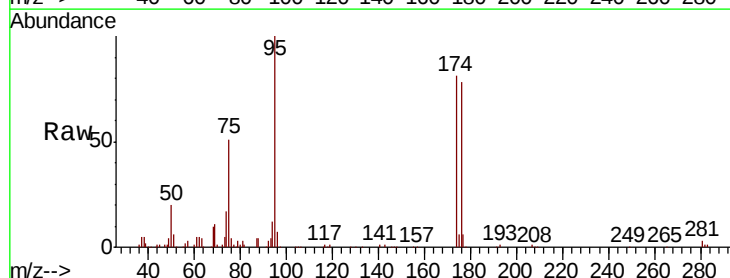
Instrument :
MSVOA_N
ClientSampled :

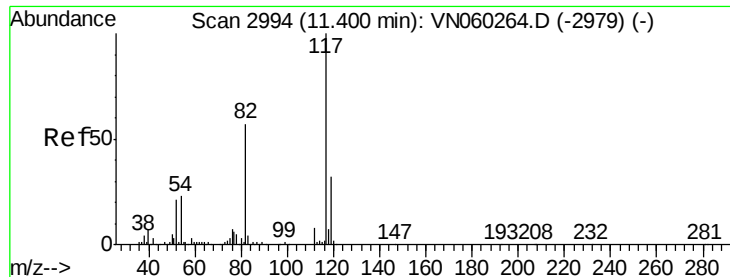
Tot Ion: 43 Resp: 657
Ion Ratio Lower Upper
43 100
58 15.2 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.898 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060295.D
Acq: 28 Feb 2020 19:13

Tgt Ion: 95 Resp: 146602
Ion Ratio Lower Upper
95 100
174 80.8 0.0 159.2
176 78.4 0.0 153.8

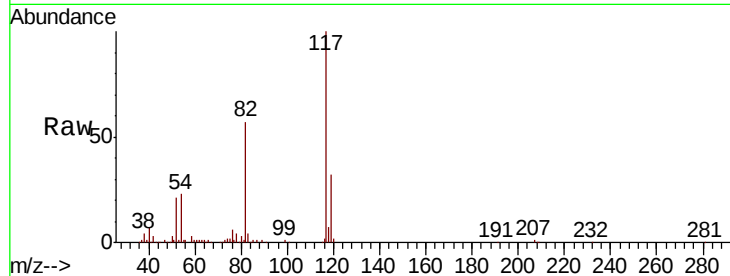




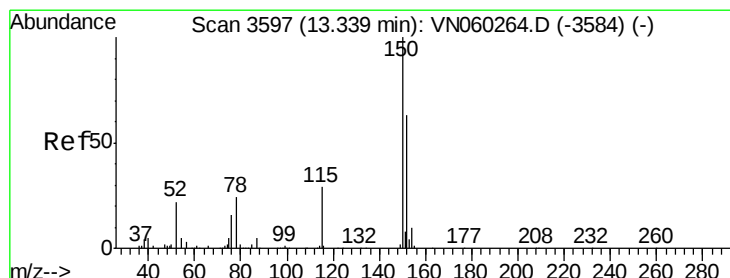
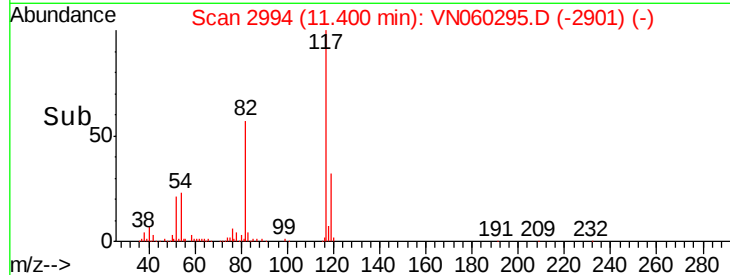
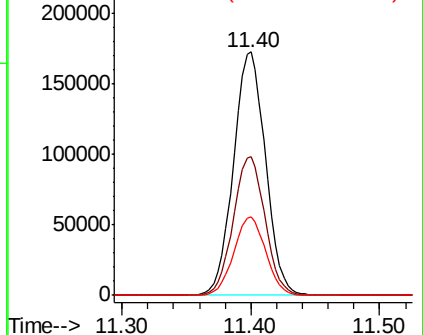
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060295.D
Acq: 28 Feb 2020 19:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 297091
Ion Ratio Lower Upper
117 100
82 56.7 45.8 68.6
119 32.0 25.8 38.8

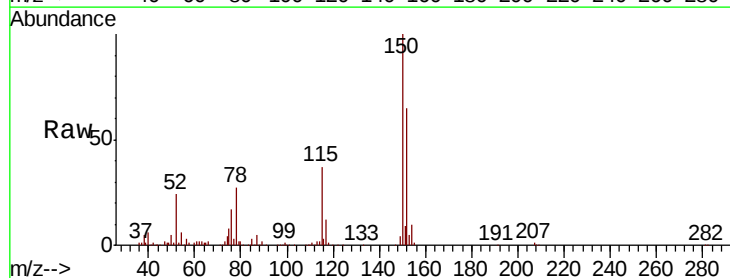


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

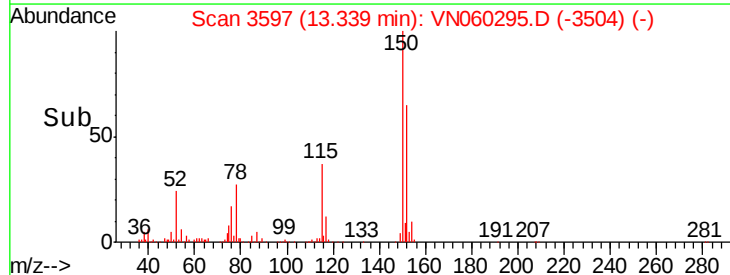
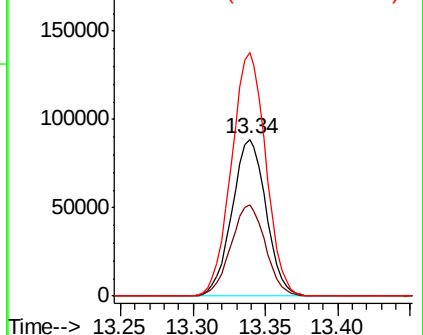


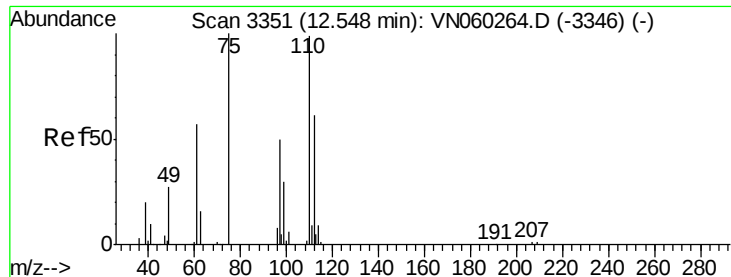
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060295.D
Acq: 28 Feb 2020 19:13

Tgt Ion:152 Resp: 144364
Ion Ratio Lower Upper
152 100
115 59.1 30.0 90.0
150 156.7 0.0 349.6



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: 24.179 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060295.D

Acq: 28 Feb 2020 19:13

Instrument :

MSVOA_N

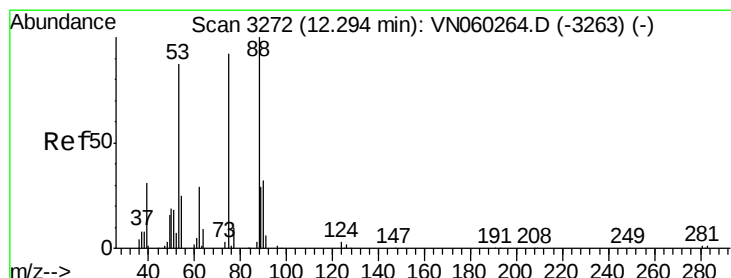
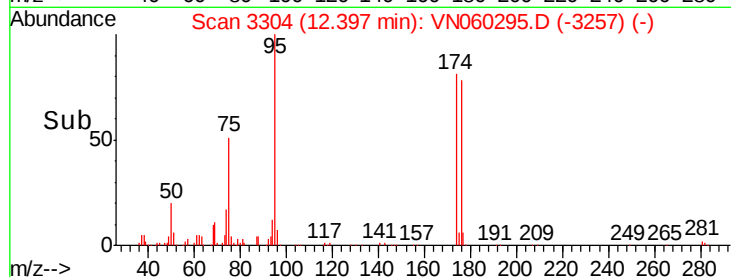
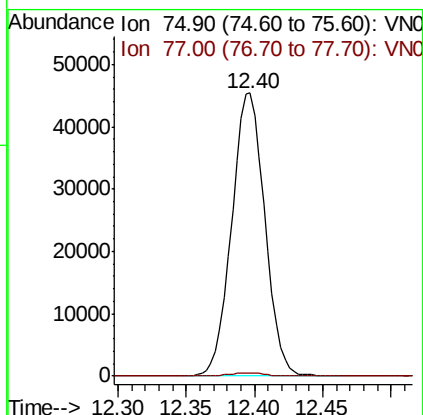
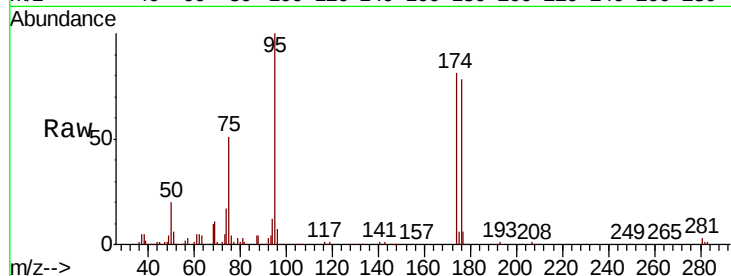
ClientSampled :

Tot Ion: 75 Resp: 76584

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.746 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060295.D

Acq: 28 Feb 2020 19:13

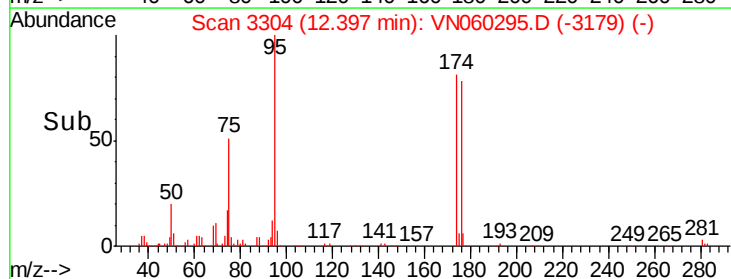
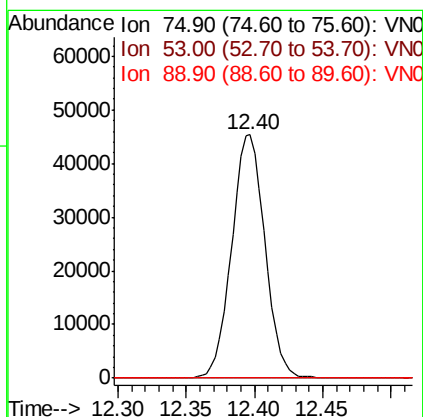
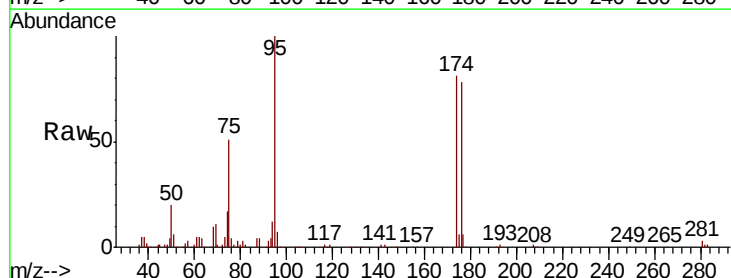
Tgt Ion: 75 Resp: 76584

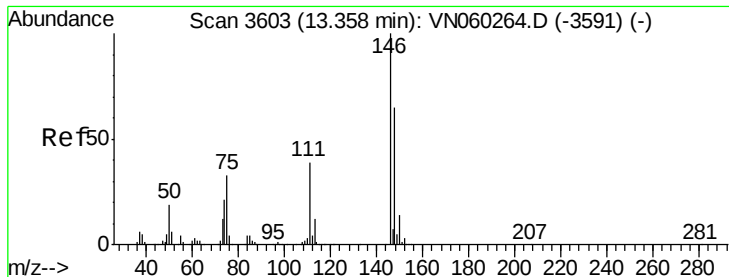
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.27 min Scan# 3576

Delta R.T. -0.09 min

Lab File: VN060295.D

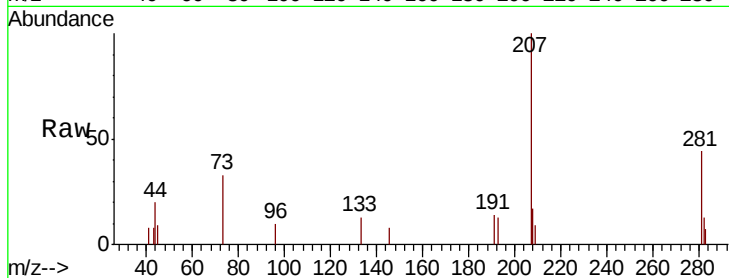
Acq: 28 Feb 2020 19:13

Instrument :

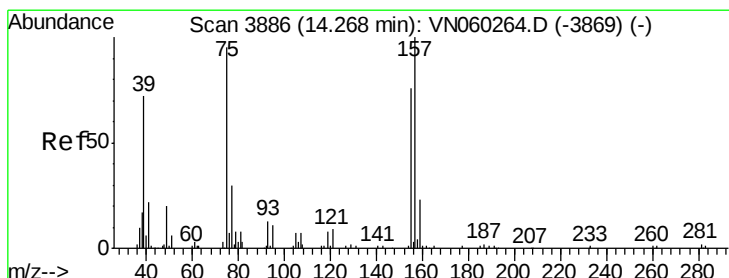
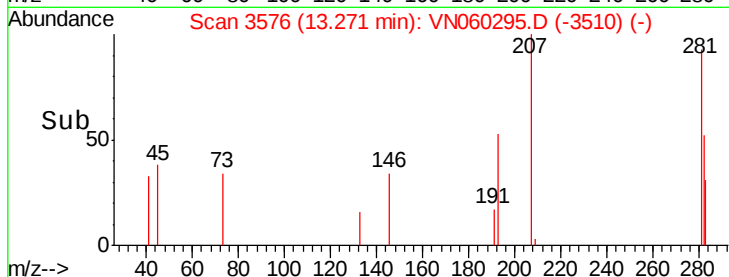
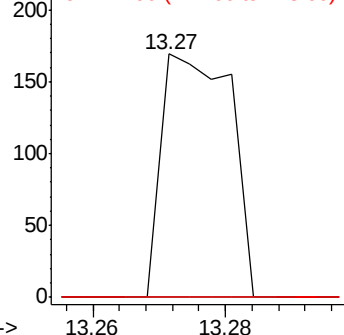
MSVOA_N

ClientSampleId :

Tot Ion:	146	Resp:	123
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.8	59.4#
148	0.0	32.3	96.9#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.290 ug/l

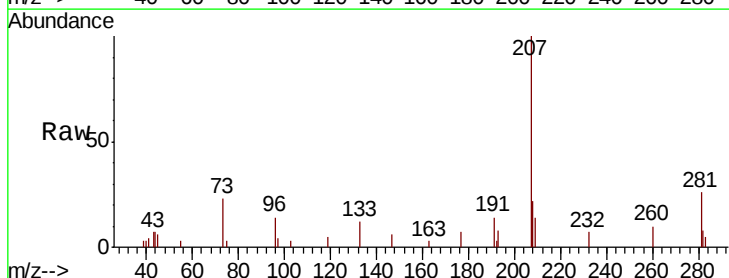
RT: 14.26 min Scan# 3885

Delta R.T. -0.00 min

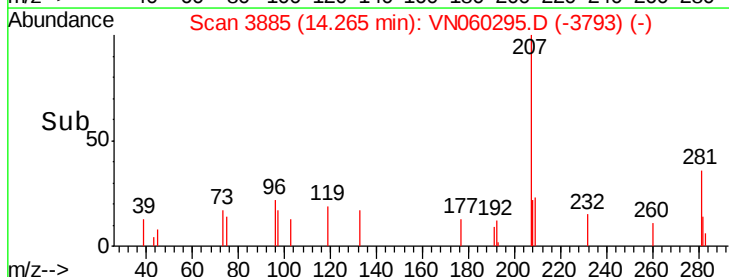
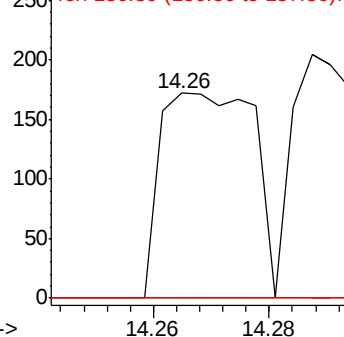
Lab File: VN060295.D

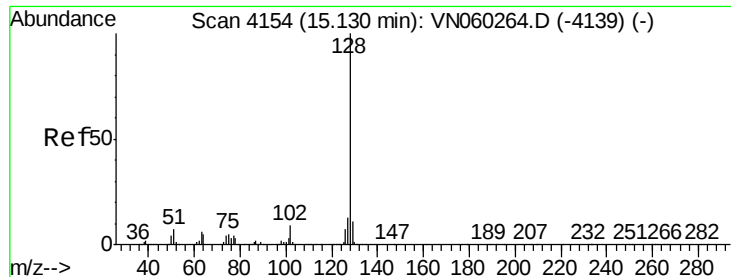
Acq: 28 Feb 2020 19:13

Tgt Ion:	75	Resp:	191
Ion	Ratio	Lower	Upper
75	100		
155	0.0	40.4	121.2#
157	0.0	52.5	157.5#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060295.D

Acq: 28 Feb 2020 19:13

Instrument :

MSVOA_N

ClientSampleId :

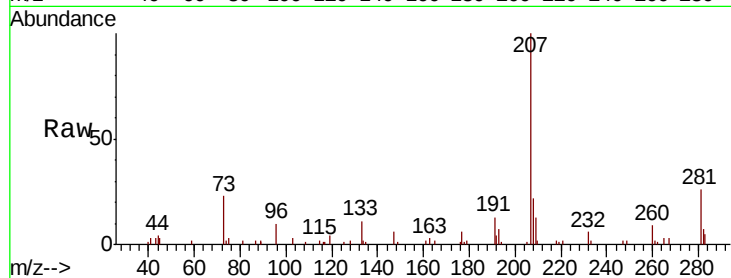
Tot Ion:128 Resp: 262

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



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

