

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056835.D
 Acq On : 19 Jul 2019 16:27
 Operator : JC/SP
 Sample : K3618-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 23:16:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	244953	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	445271	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	488073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	174716	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	148045	54.64	ug/l	0.00
Spiked Amount			Recovery	=	109.28%	
35) Dibromofluoromethane	7.59	113	131745	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
50) Toluene-d8	10.09	98	571241	53.38	ug/l	0.00
Spiked Amount			Recovery	=	106.76%	
62) 4-Bromofluorobenzene	12.40	95	210708	58.38	ug/l	0.00
Spiked Amount			Recovery	=	116.76%	

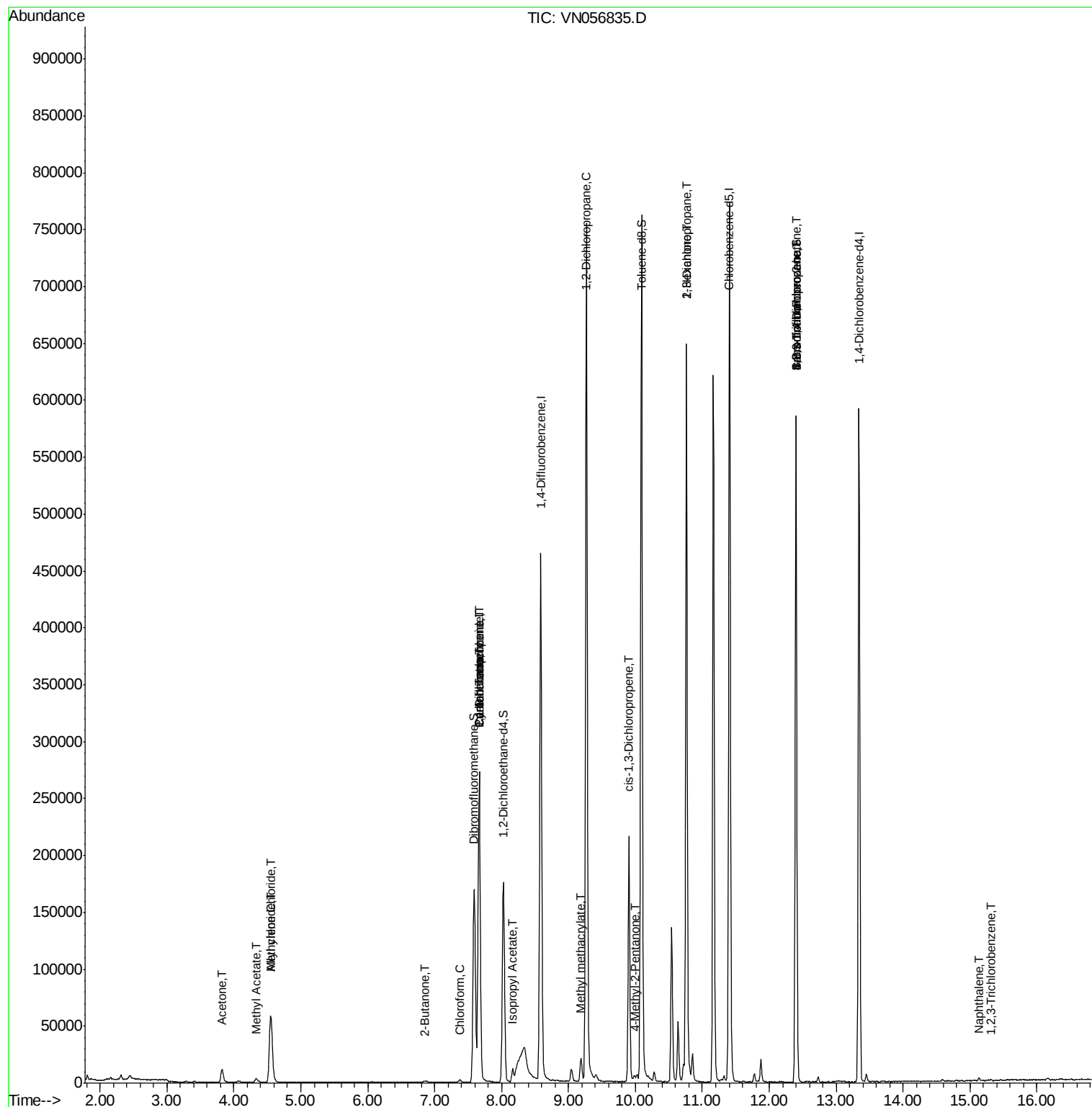
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.56	41	1918	0.482	ug/l #	29
16) Acetone	3.82	43	20377	16.320	ug/l	98
18) Methyl Acetate	4.33	43	7687	1.803	ug/l #	90
20) Methylene Chloride	4.55	84	48374	17.728	ug/l	98
25) 2-Butanone	6.85	43	3294	1.804	ug/l	99
30) Chloroform	7.37	83	2936	0.644	ug/l	99
31) Cyclohexane	7.66	56	3680	0.850	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	16133	3.915	ug/l #	49
38) Carbon Tetrachloride	7.67	117	21228	5.494	ug/l #	16
43) Isopropyl Acetate	8.17	43	14117	2.211	ug/l	93
45) 1,2-Dichloropropane	9.27	63	875	0.261	ug/l #	45
48) Methyl methacrylate	9.18	41	7451	2.413	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	4109	0.994	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	41246	8.624	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	6849	1.333	ug/l #	42
59) 2-Hexanone	10.76	43	96178	32.416	ug/l #	51
71) Bromoform	12.40	173	1629	0.583	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	95719	25.049	ug/l #	100
79) 2-Chlorotoluene	12.73	91	147	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	95719	77.359	ug/l #	13
83) tert-Butylbenzene	12.99	119	62	Below Cal	#	27
95) Naphthalene	15.13	128	3095	4.826	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.32	180	176	3.371	ug/l #	78

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

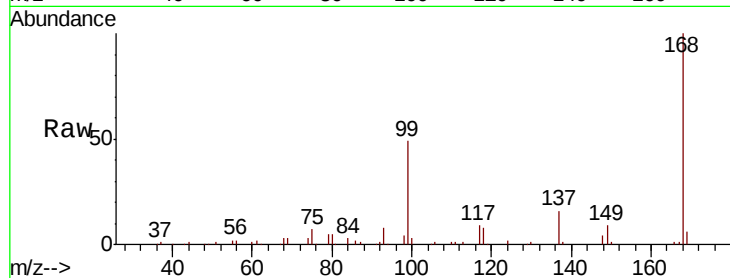
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 244953

Ion Ratio Lower Upper

168 100

99 49.3 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

100000

80000

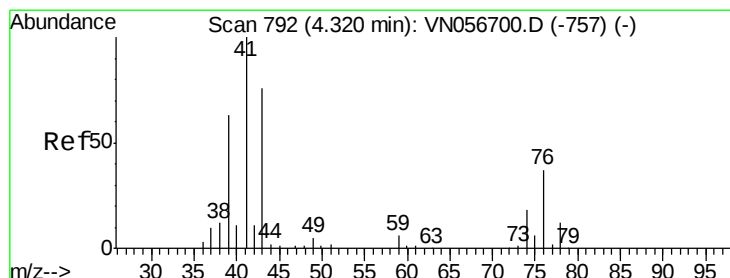
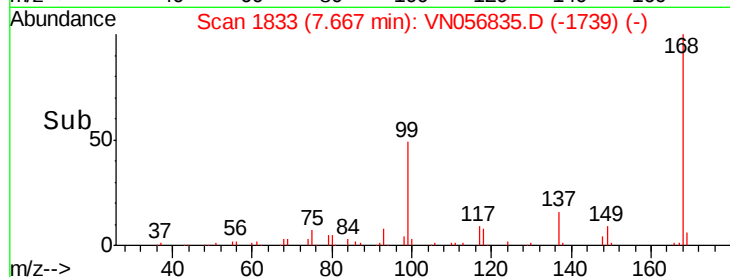
60000

40000

20000

0

Time-->



#14

Allyl chloride

Concen: 0.482 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.24 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

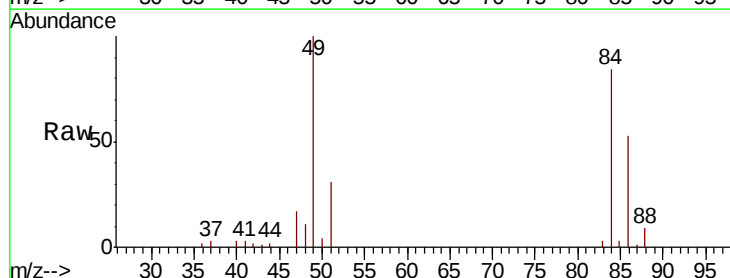
Tgt Ion: 41 Resp: 1918

Ion Ratio Lower Upper

41 100

39 0.0 46.9 70.3#

76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

4.56

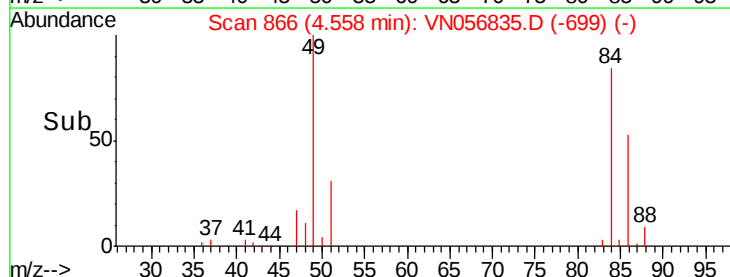
600

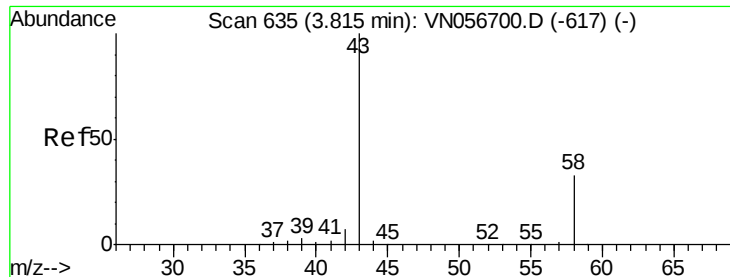
400

200

0

Time-->





#16

Acetone

Concen: 16.320 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

Instrument :

MSVOA_N

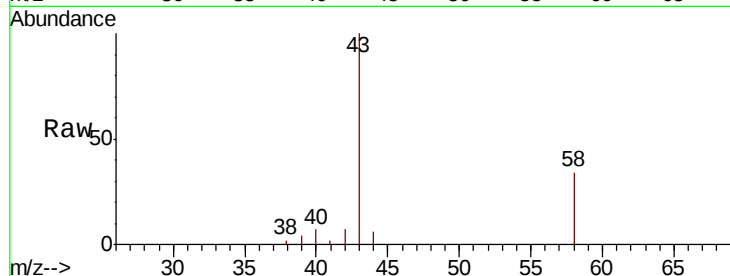
ClientSampleId :

Tot Ion: 43 Resp: 20377

Ion Ratio Lower Upper

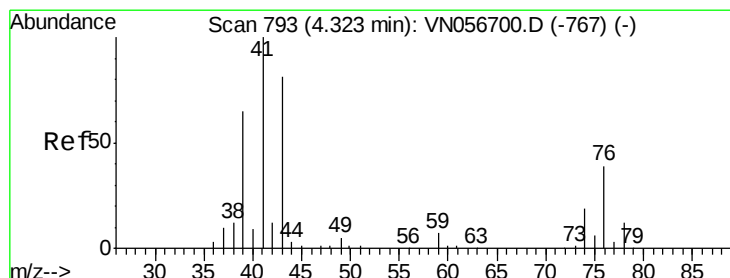
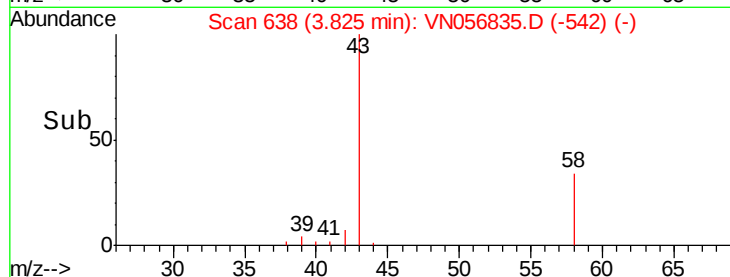
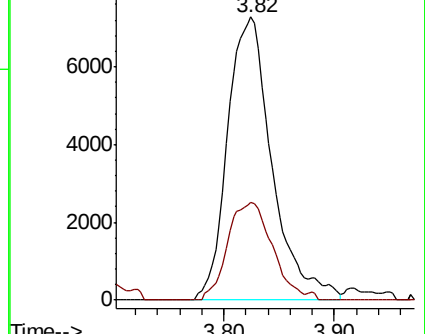
43 100

58 34.3 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.803 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056835.D

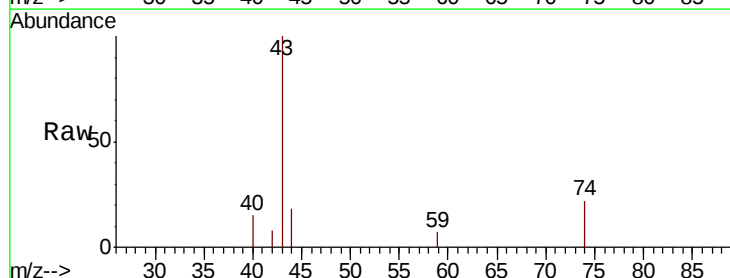
Acq: 19 Jul 2019 16:27

Tgt Ion: 43 Resp: 7687

Ion Ratio Lower Upper

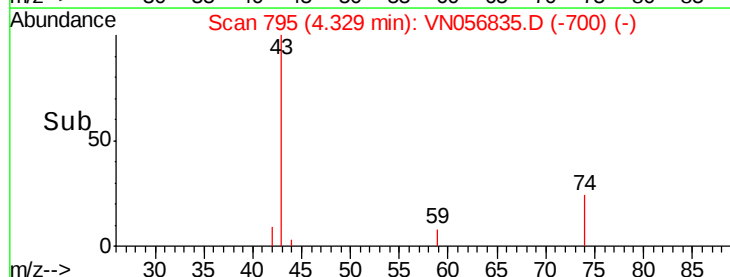
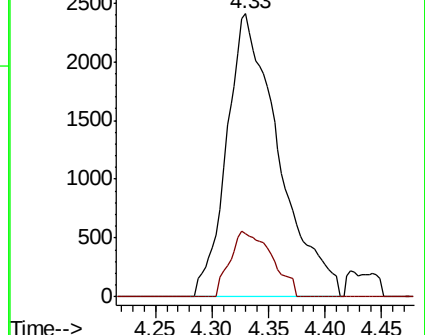
43 100

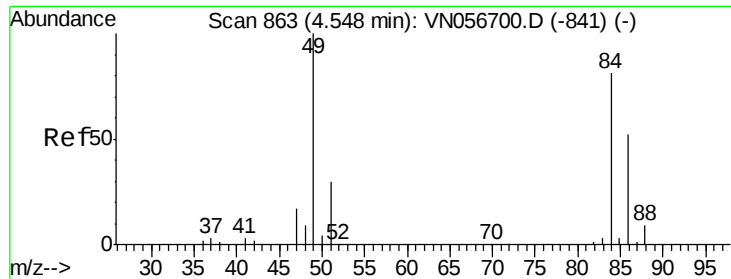
74 18.6 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

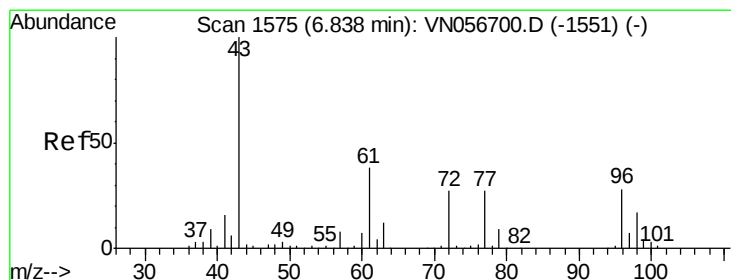
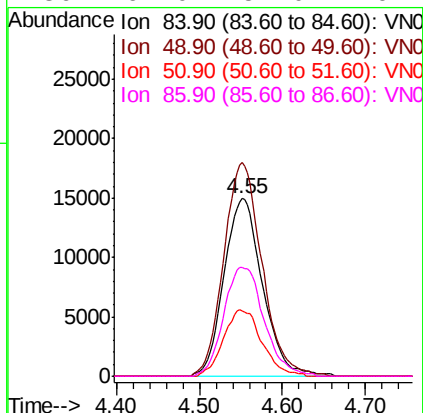
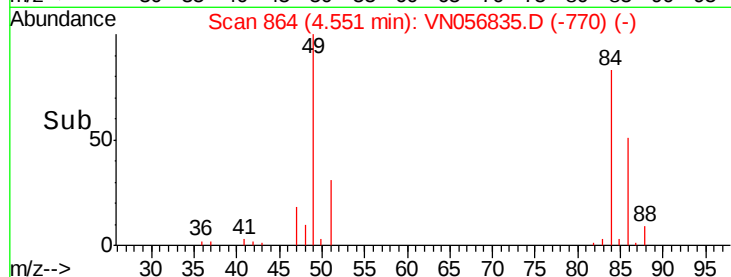
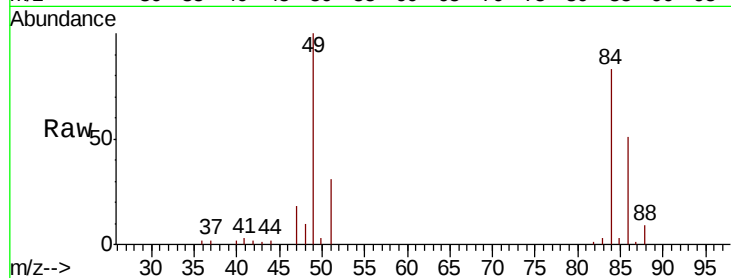




#20
Methvlene Chloride
Concen: 17.728 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

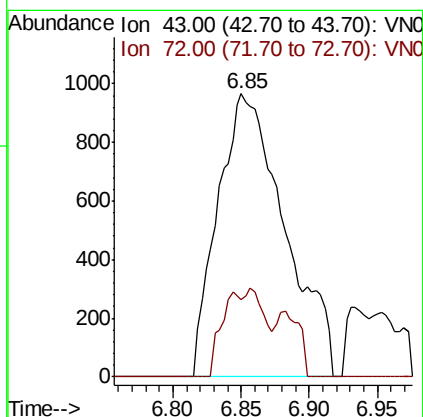
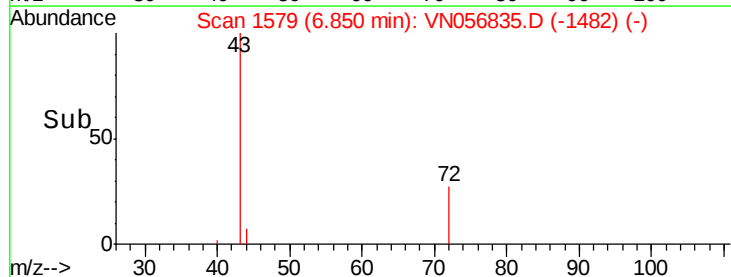
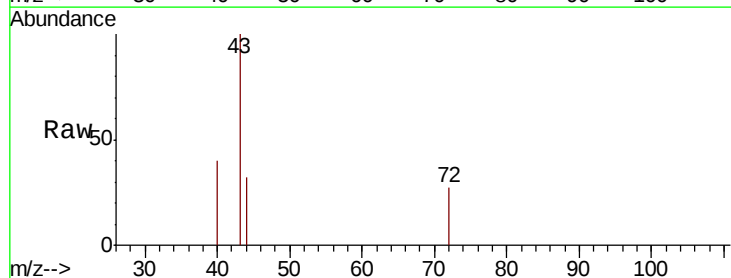
Instrument :
MSVOA_N
ClientSampleId :

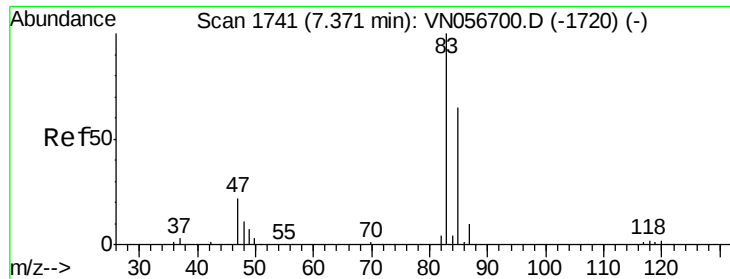
Tot Ion: 84 Resp: 48374
Ion Ratio Lower Upper
84 100
49 120.2 98.2 147.4
51 37.0 29.6 44.4
86 61.0 51.0 76.4



#25
2-Butanone
Concen: 1.804 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

Tgt Ion: 43 Resp: 3294
Ion Ratio Lower Upper
43 100
72 27.1 21.2 31.8

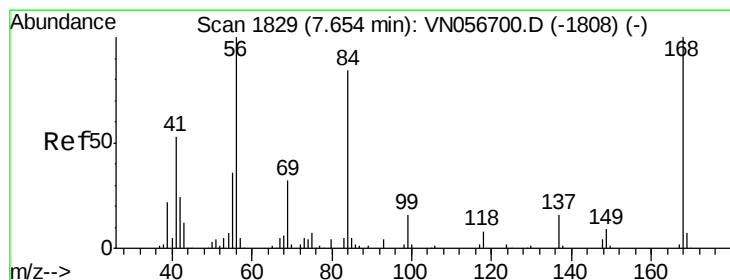
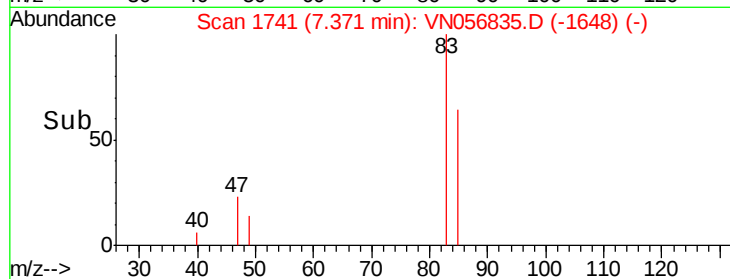
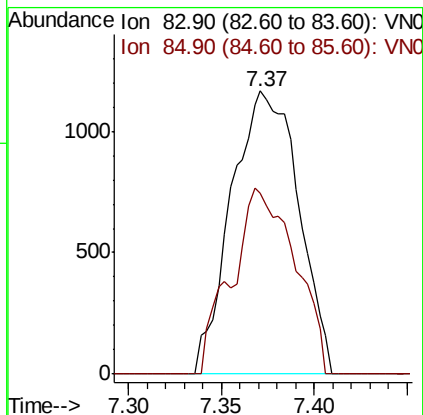
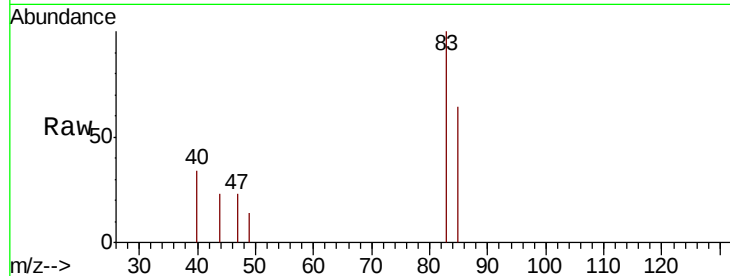




#30
Chloroform
Concen: 0.644 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

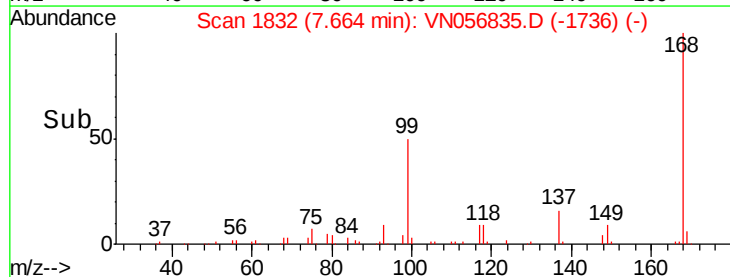
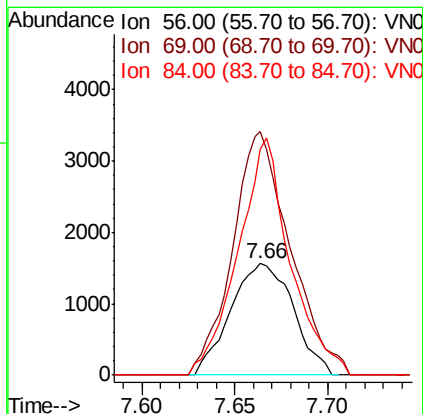
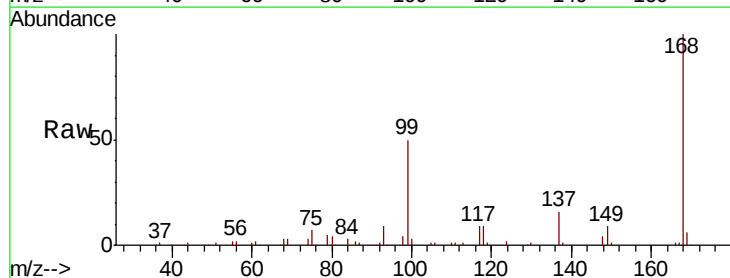
Instrument :
MSVOA_N
ClientSampled :

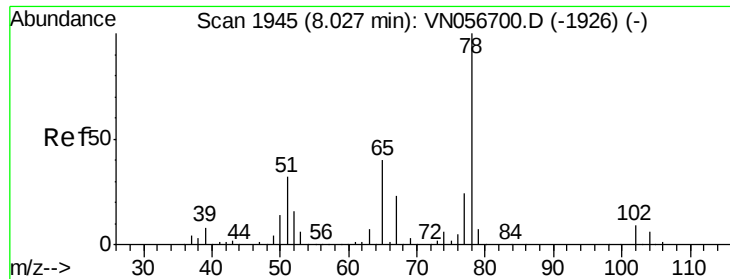
Tot Ion: 83 Resp: 2936
Ion Ratio Lower Upper
83 100
85 64.1 51.9 77.9



#31
Cyclohexane
Concen: 0.850 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

Tgt Ion: 56 Resp: 3680
Ion Ratio Lower Upper
56 100
69 218.8 25.8 38.8#
84 202.8 67.4 101.0#

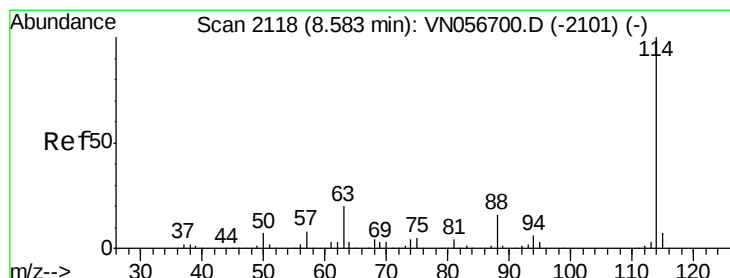
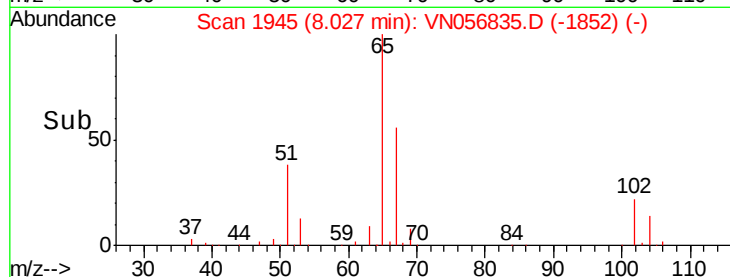
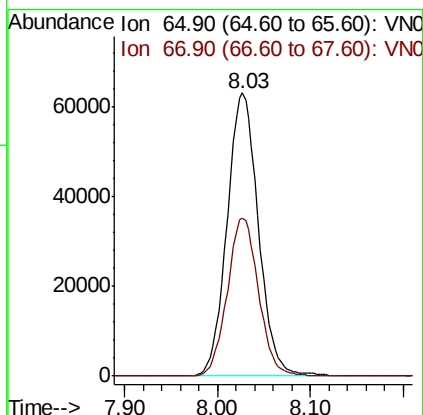
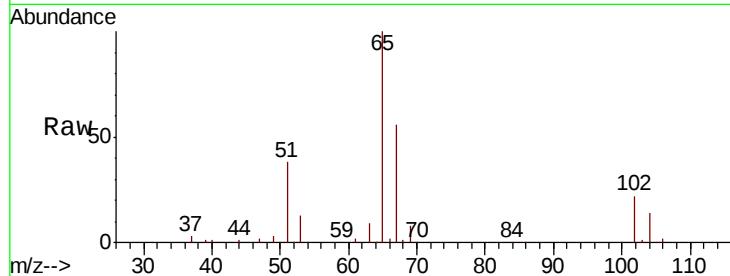




#33
 1,2-Dichloroethane-d4
 Concen: 54.639 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056835.D
 Acq: 19 Jul 2019 16:27

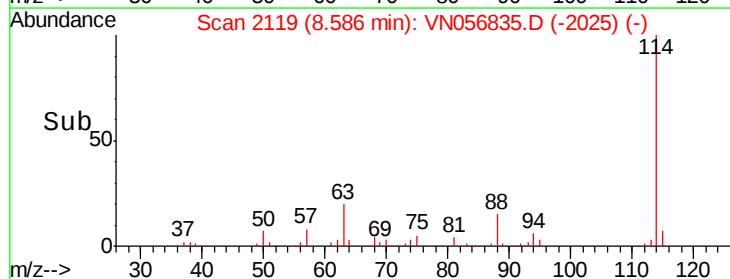
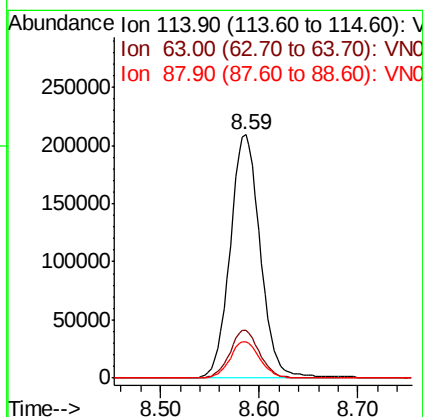
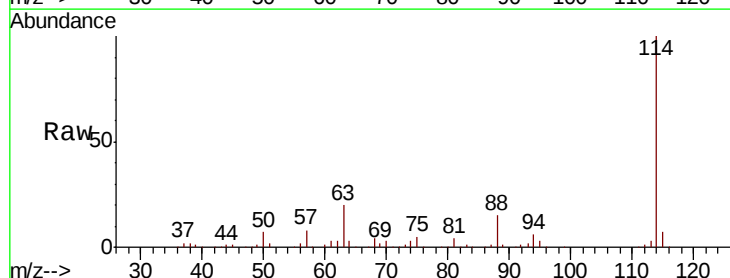
Instrument :
 MSVOA_N
 ClientSampleId :

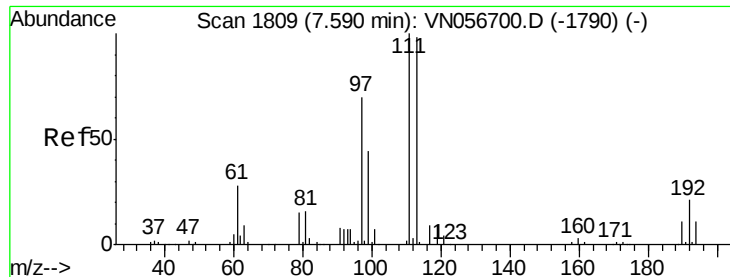
Tot Ion: 65 Resp: 148045
 Ion Ratio Lower Upper
 65 100
 67 55.6 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056835.D
 Acq: 19 Jul 2019 16:27

Tgt Ion: 114 Resp: 445271
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.4
 88 15.1 0.0 31.2





#35

Dibromofluoromethane

Concen: 47.544 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

Instrument :
MSVOA_N
ClientSampleId :

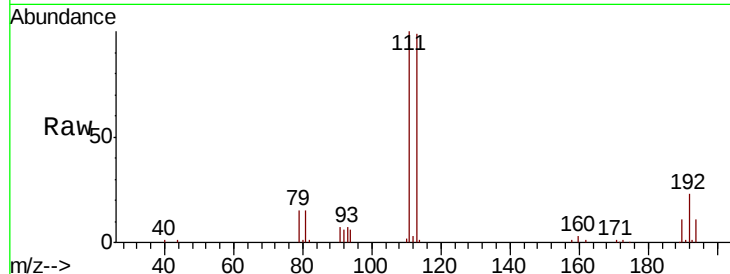
Tot Ion:113 Resp: 131745

Ion Ratio Lower Upper

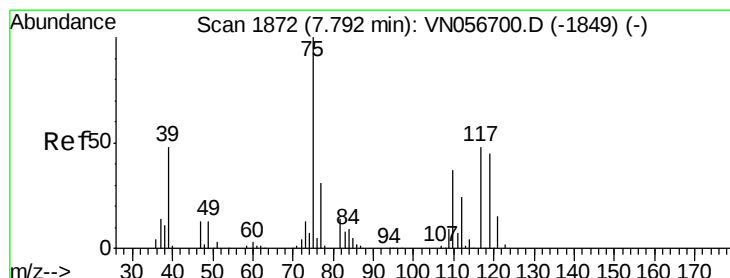
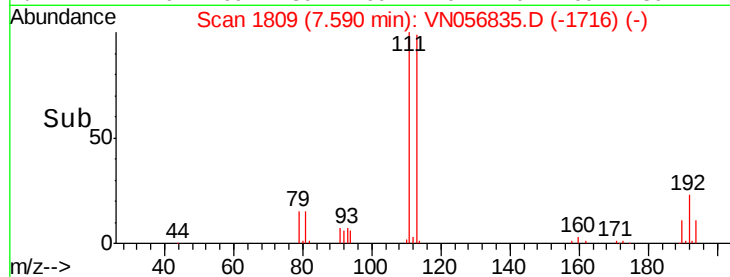
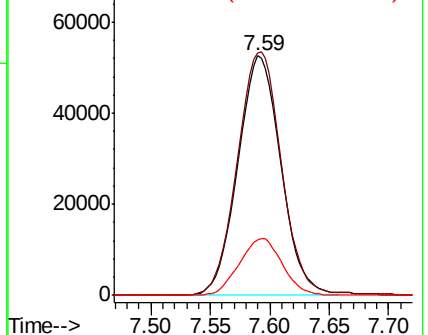
113 100

111 104.2 81.8 122.6

192 23.6 17.5 26.3



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: 3.915 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

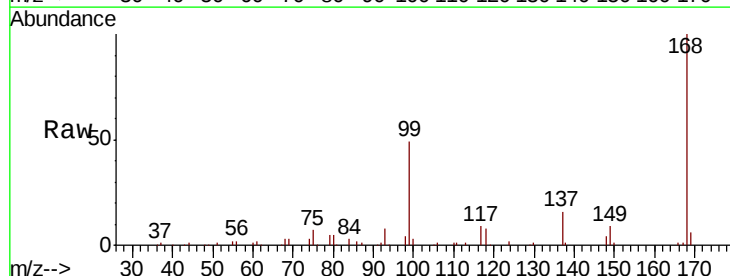
Tgt Ion: 75 Resp: 16133

Ion Ratio Lower Upper

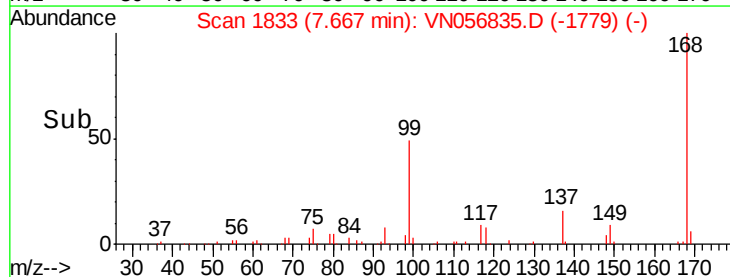
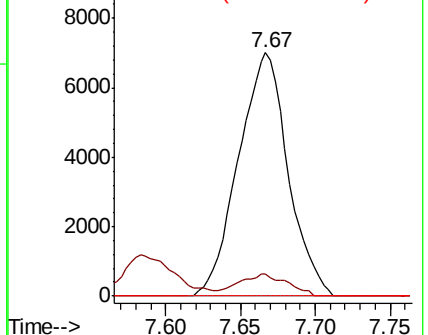
75 100

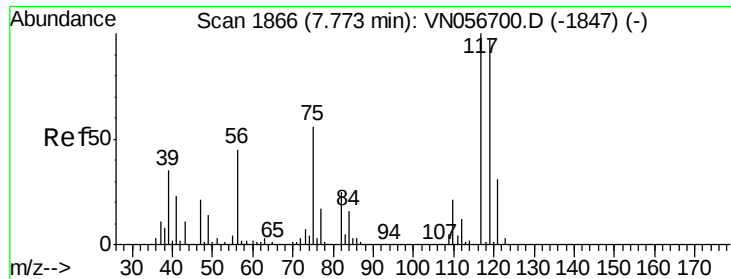
110 8.8 18.4 55.4#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.494 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

Instrument :

MSVOA_N

ClientSampled :

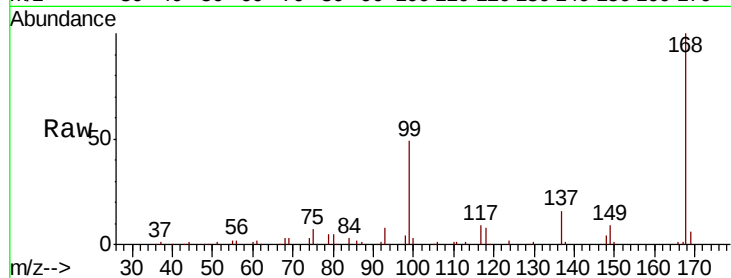
Tot Ion:117 Resp: 21228

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

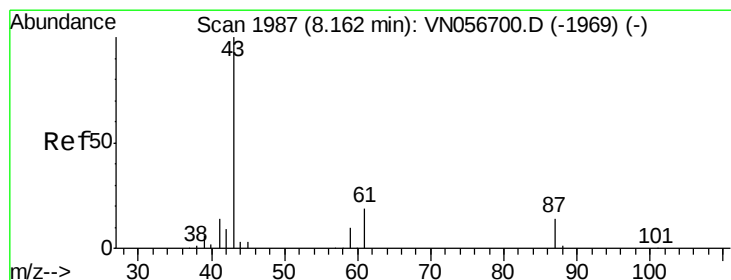
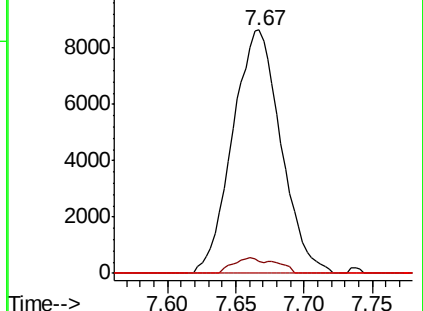
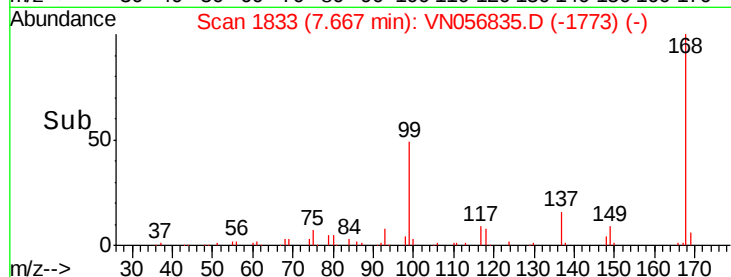
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.211 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

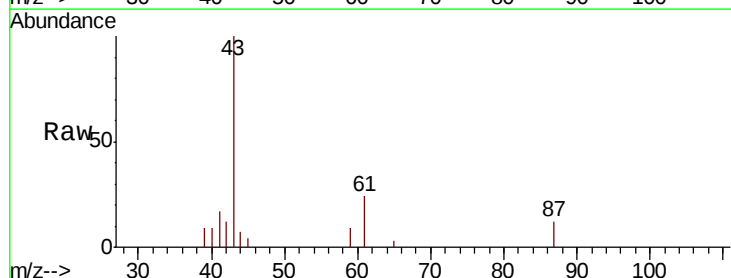
Tgt Ion: 43 Resp: 14117

Ion Ratio Lower Upper

43 100

61 23.3 22.3 33.5

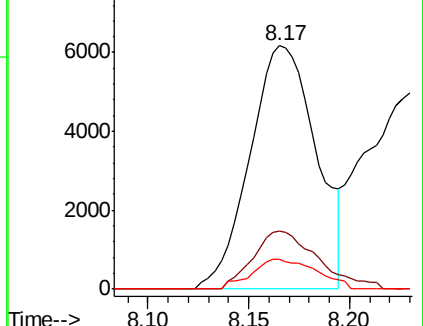
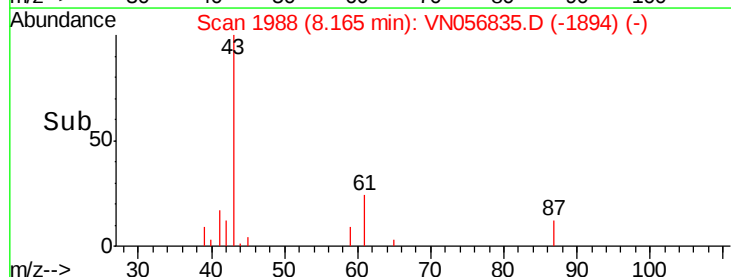
87 11.9 11.1 16.7

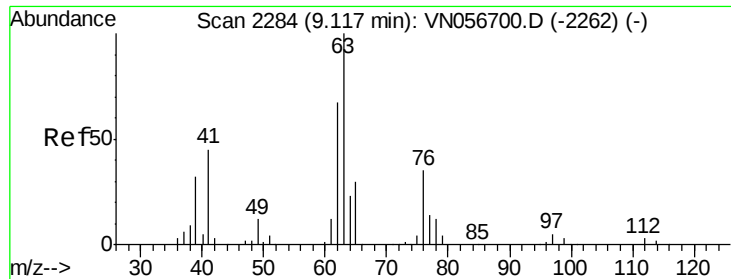


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.261 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

Instrument :

MSVOA_N

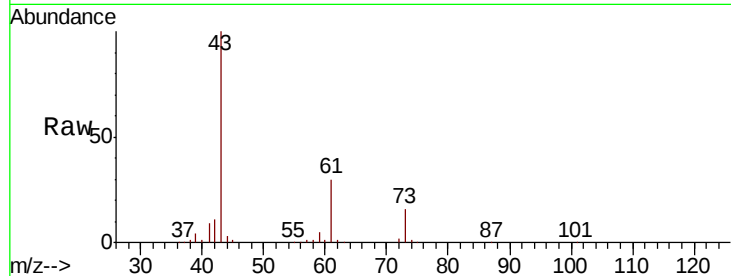
ClientSampleId :

Tot Ion: 63 Resp: 875

Ion Ratio Lower Upper

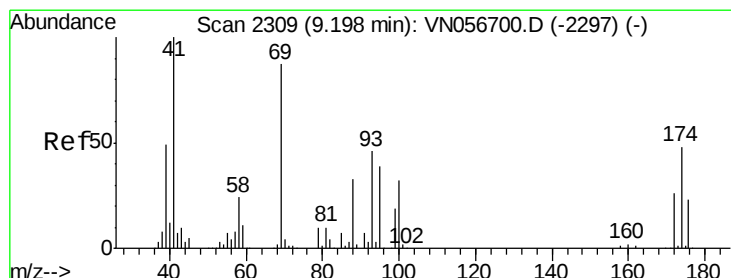
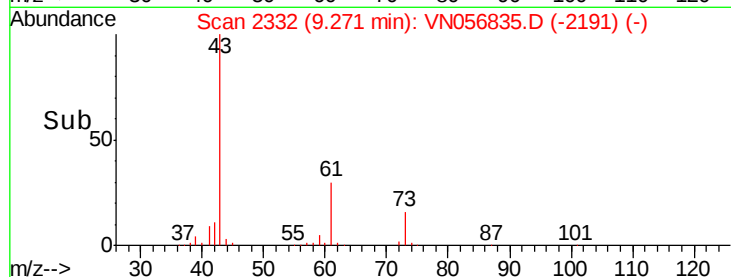
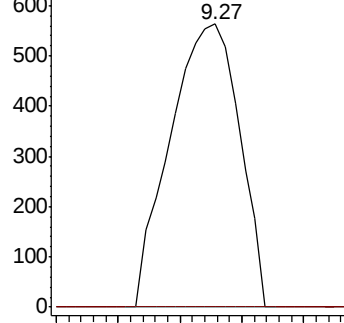
63 100

65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 2.413 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

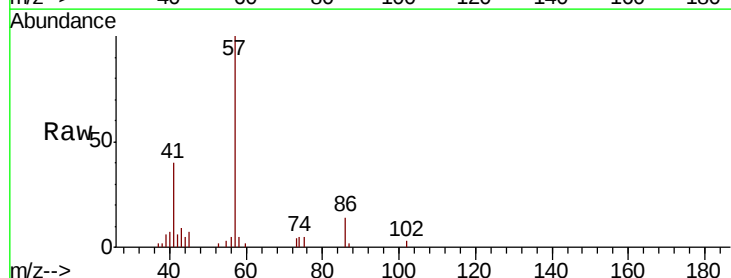
Tgt Ion: 41 Resp: 7451

Ion Ratio Lower Upper

41 100

69 0.0 71.4 107.0#

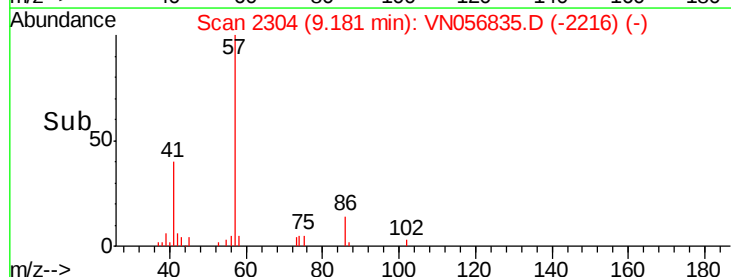
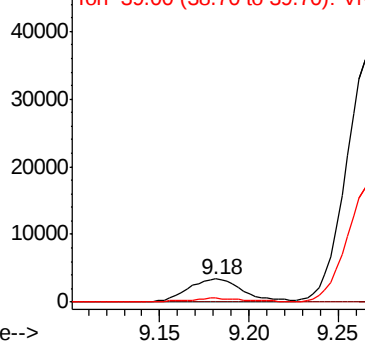
39 16.6 41.2 61.8#

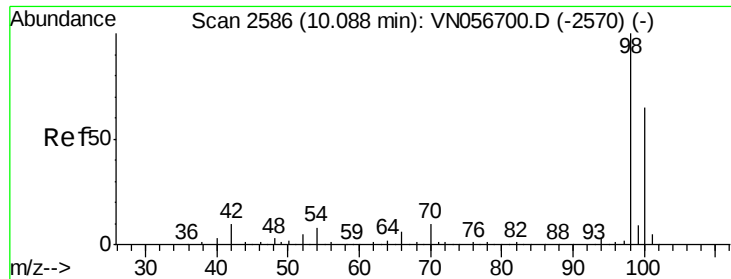


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 53.376 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

Instrument :

MSVOA_N

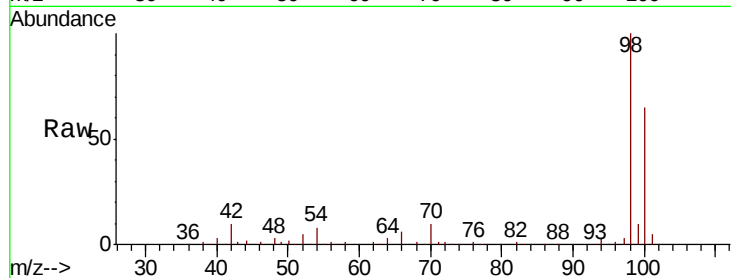
ClientSampleId :

Tot Ion: 98 Resp: 571241

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056700.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056700.D (-2570) (-)

10.09

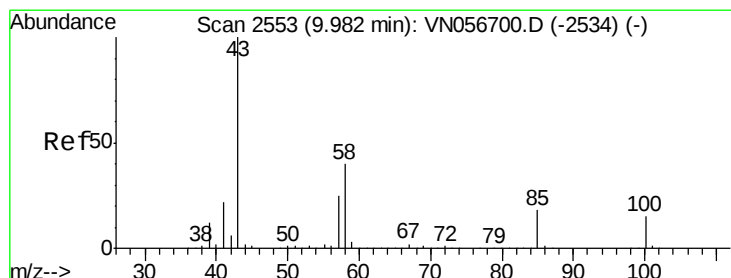
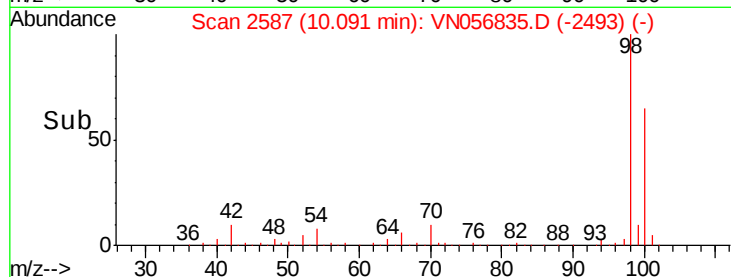
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.994 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.01 min

Lab File: VN056835.D

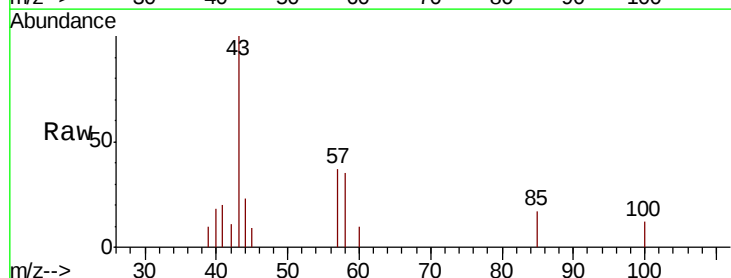
Acq: 19 Jul 2019 16:27

Tgt Ion: 43 Resp: 4109

Ion Ratio Lower Upper

43 100

58 34.8 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN056700.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN056700.D (-2534) (-)

4000

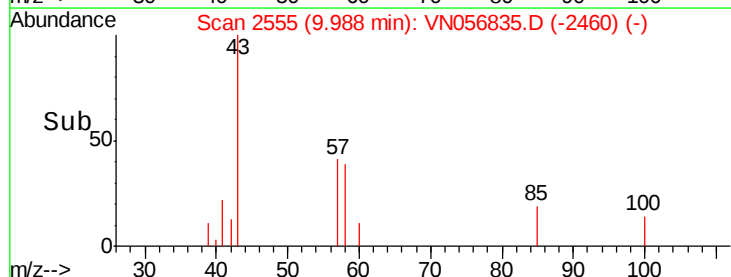
3000

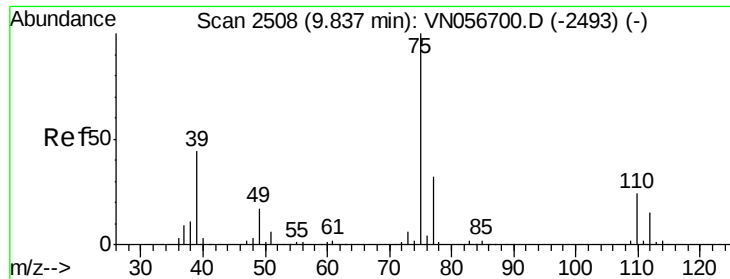
2000

1000

0

Time-->



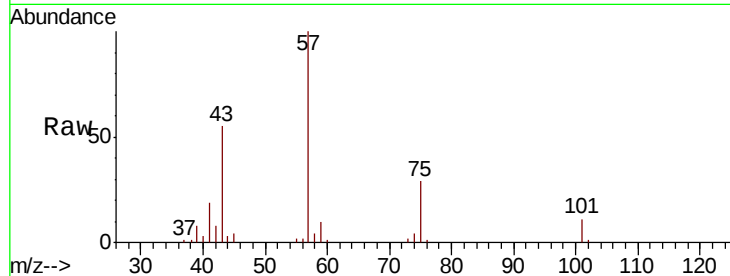


#54

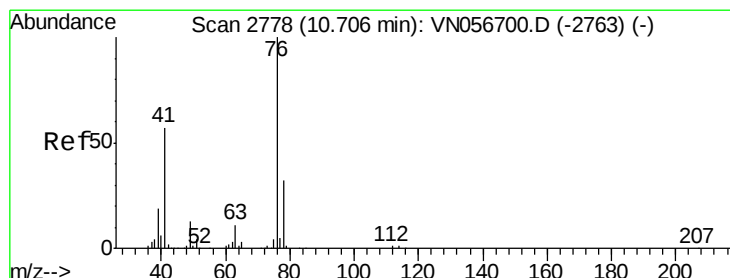
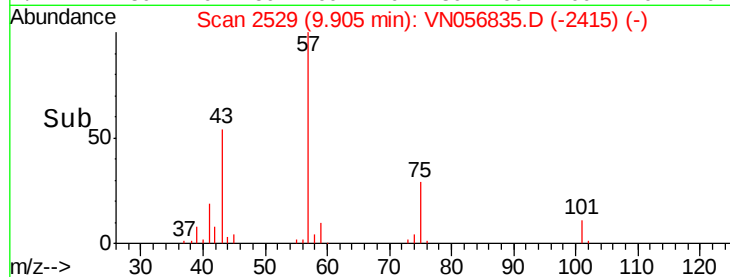
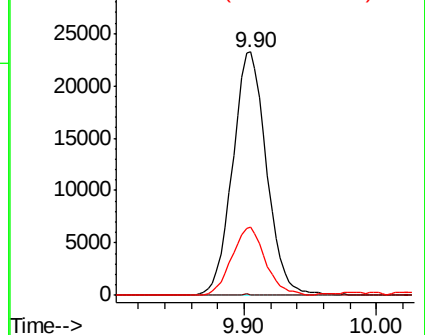
cis-1,3-Dichloropropene
 Concen: 8.624 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056835.D
 Acq: 19 Jul 2019 16:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 41246
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.0 39.0#
 39 27.8 35.1 52.7#



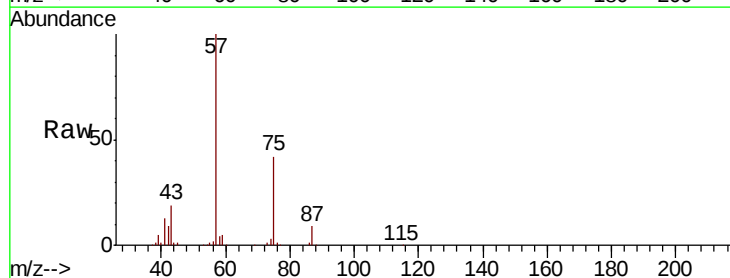
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



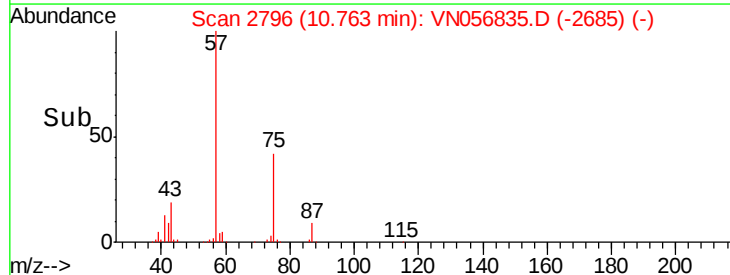
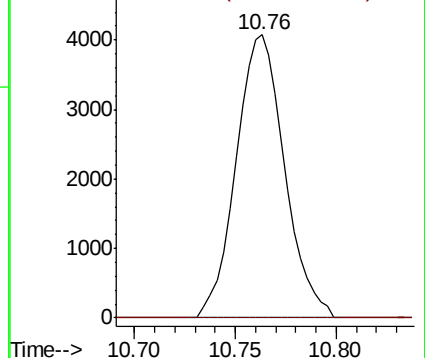
#57

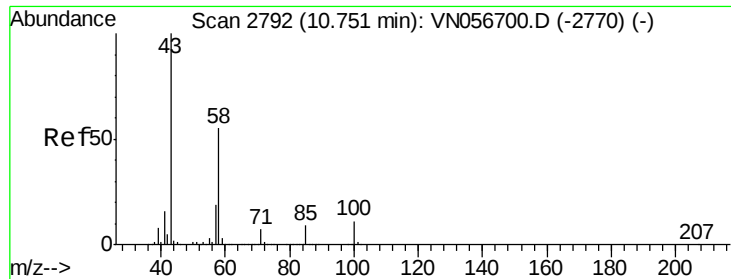
1,3-Dichloropropane
 Concen: 1.333 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056835.D
 Acq: 19 Jul 2019 16:27

Tgt Ion: 76 Resp: 6849
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VNO
 Ion 77.90 (77.60 to 78.60): VNO

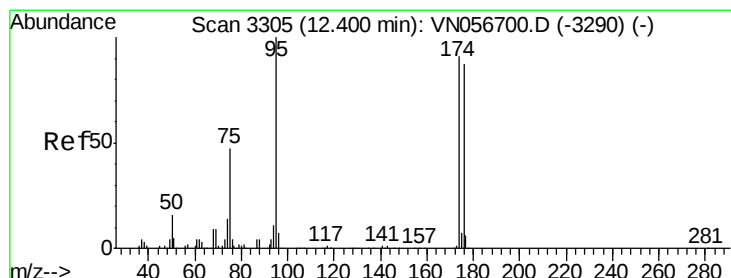
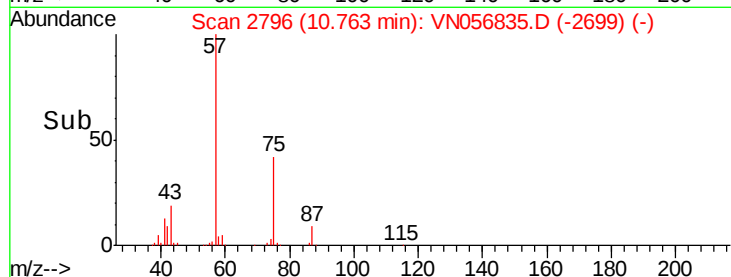
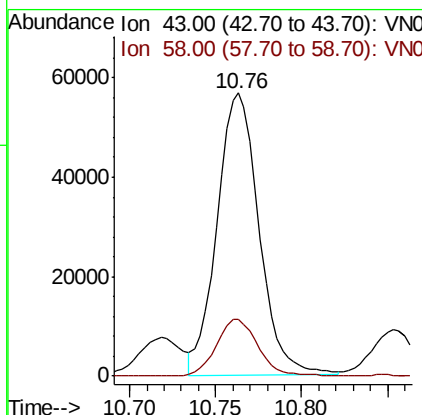
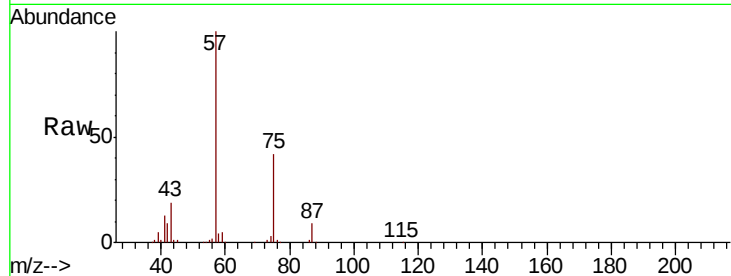




#59
2-Hexanone
Concen: 32.416 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

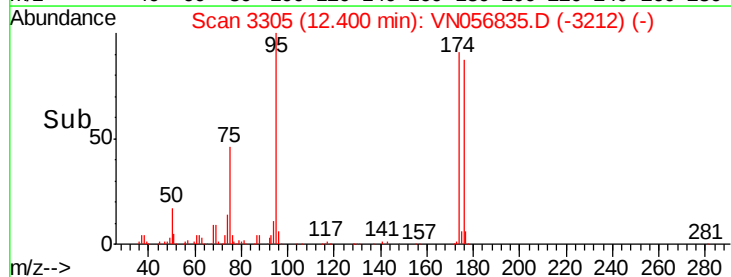
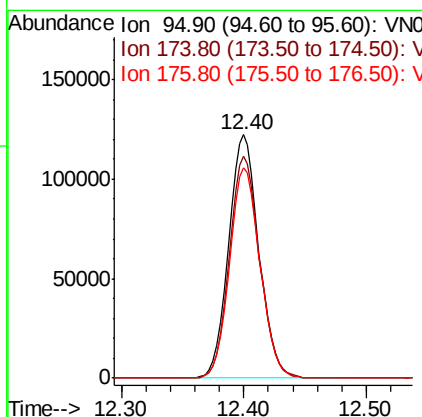
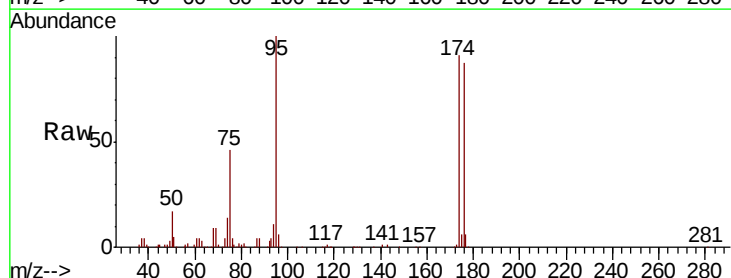
Instrument :
MSVOA_N
ClientSampleId :

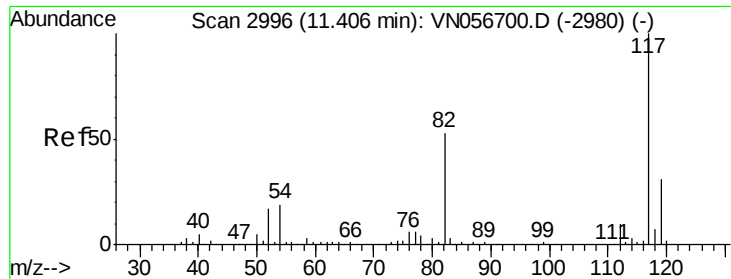
Tot Ion: 43 Resp: 96178
Ion Ratio Lower Upper
43 100
58 20.2 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 58.381 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

Tgt Ion: 95 Resp: 210708
Ion Ratio Lower Upper
95 100
174 91.1 0.0 180.0
176 87.2 0.0 173.2

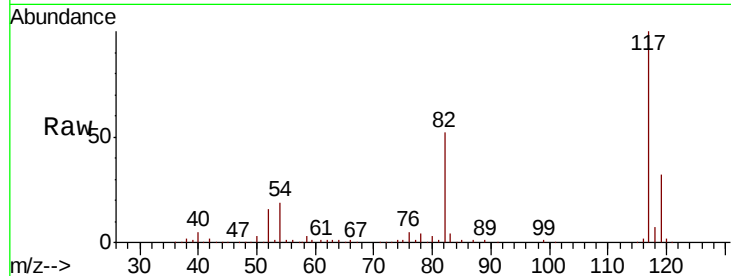




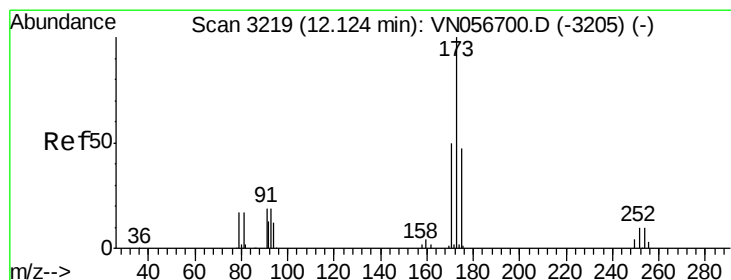
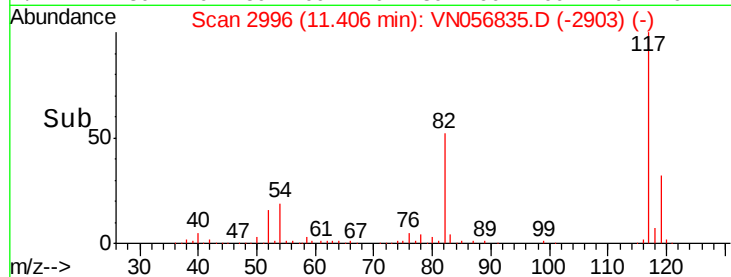
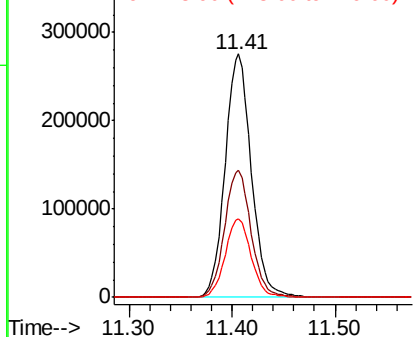
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 488073
Ion Ratio Lower Upper
117 100
82 52.1 42.2 63.2
119 32.2 25.2 37.8

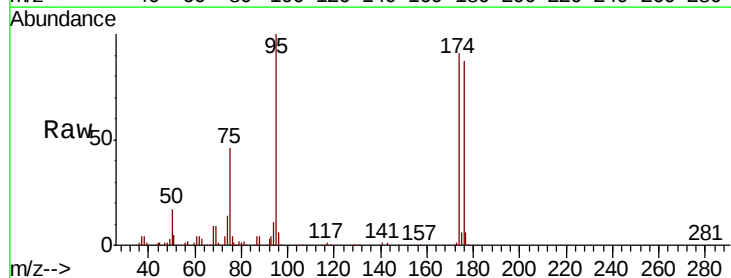


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

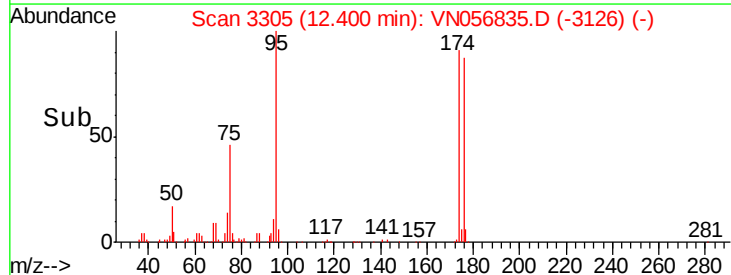
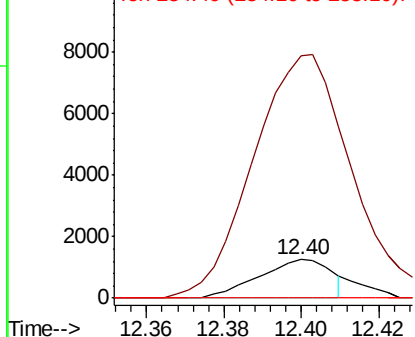


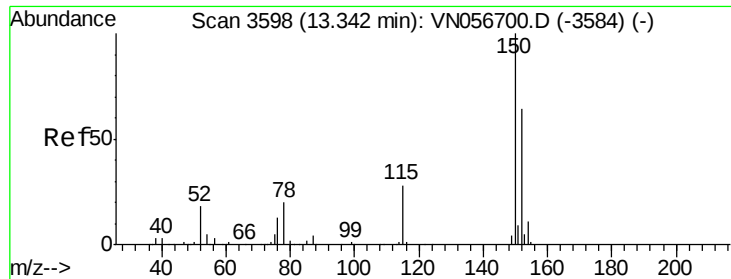
#71
Bromoform
Concen: 0.583 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

Tgt Ion:173 Resp: 1629
Ion Ratio Lower Upper
173 100
175 701.6 23.8 71.4#
254 0.0 0.0 0.0



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



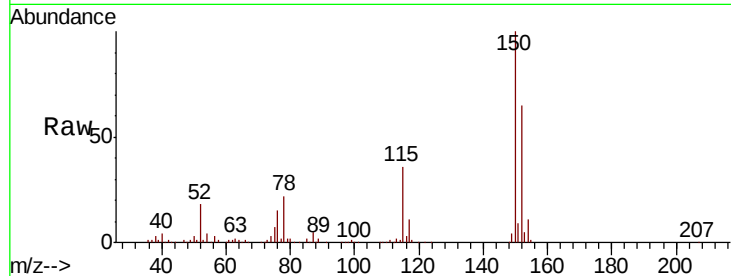


#72

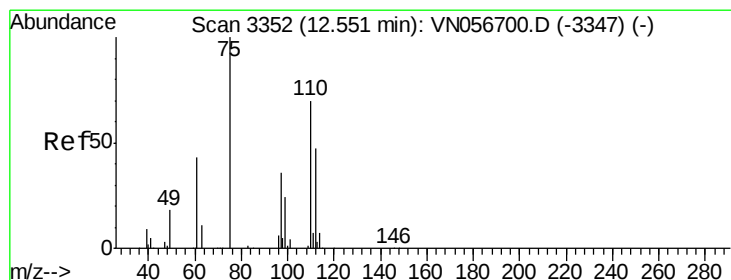
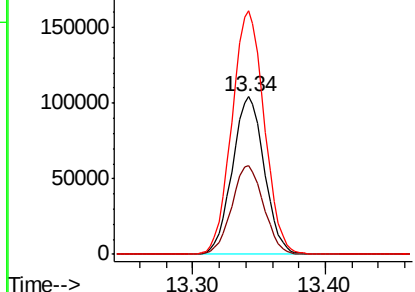
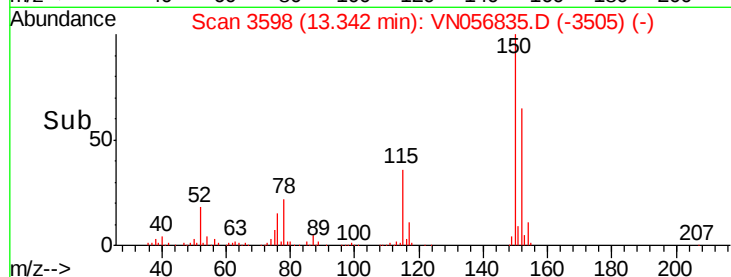
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 174716
Ion Ratio Lower Upper
152 100
115 56.2 28.2 84.7
150 156.3 0.0 345.8



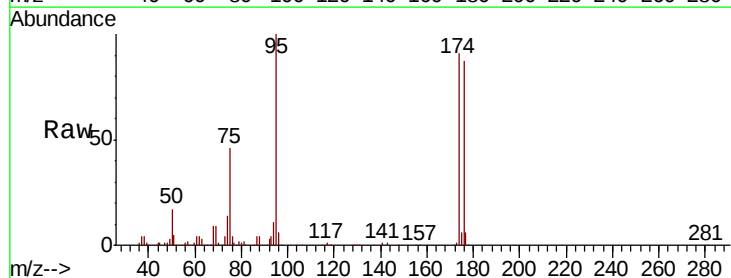
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



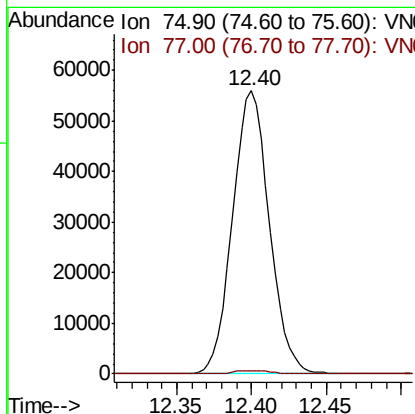
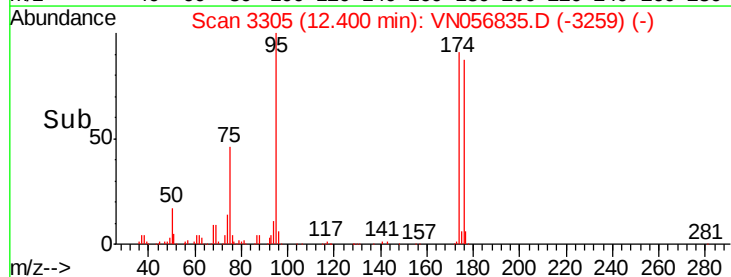
#76

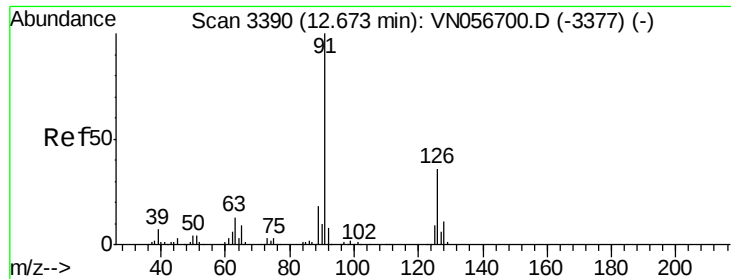
1,2,3-Trichloropropane
Concen: 25.049 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN056835.D
Acq: 19 Jul 2019 16:27

Tgt Ion: 75 Resp: 95719
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





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.06 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

Instrument :

MSVOA_N

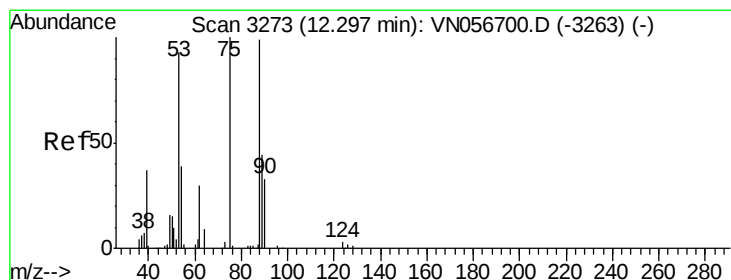
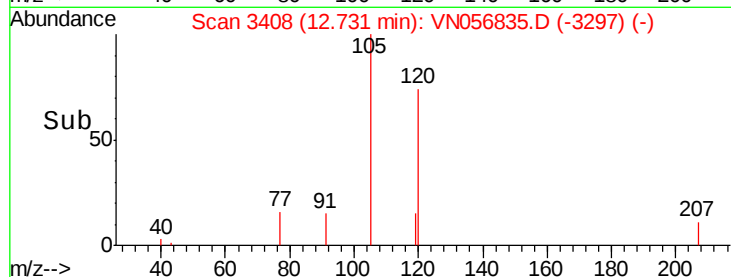
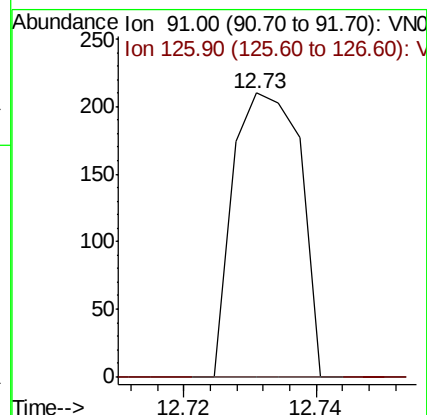
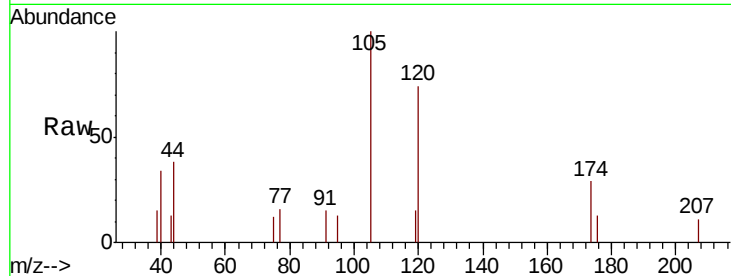
ClientSampleId :

Tot Ion: 91 Resp: 147

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.359 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056835.D

Acq: 19 Jul 2019 16:27

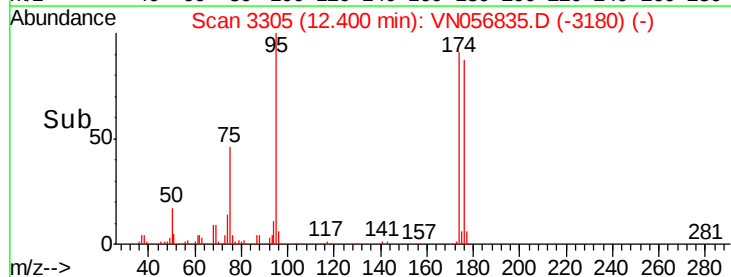
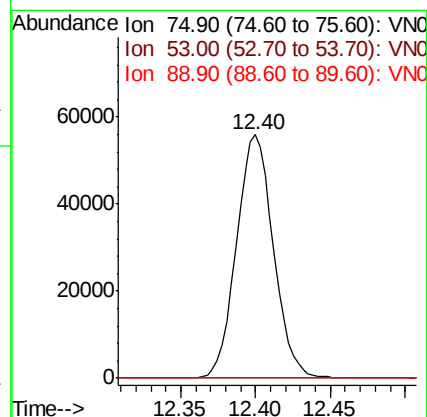
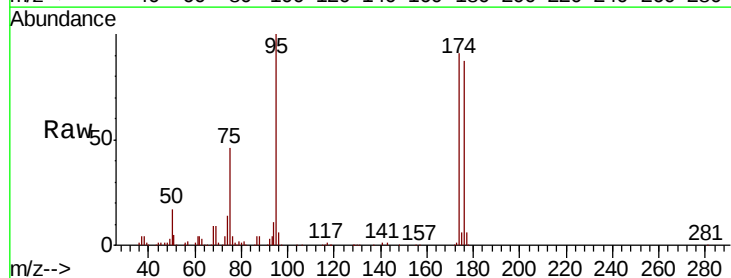
Tgt Ion: 75 Resp: 95719

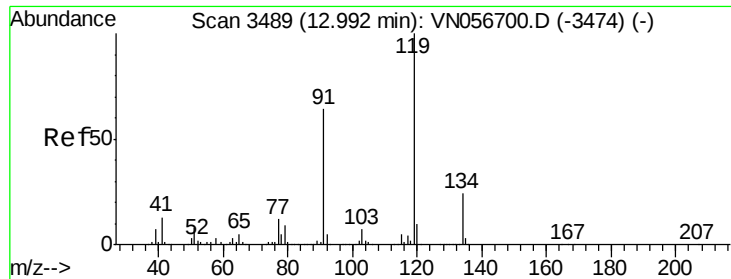
Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN056835.D

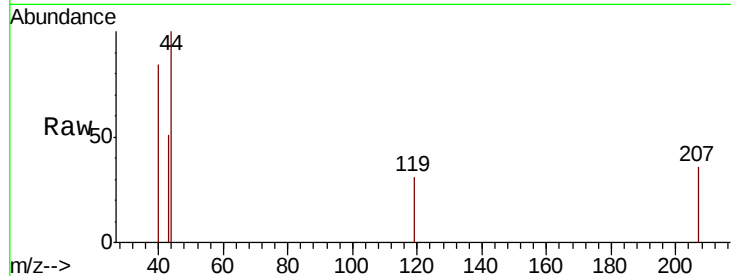
Acq: 19 Jul 2019 16:27

Instrument :

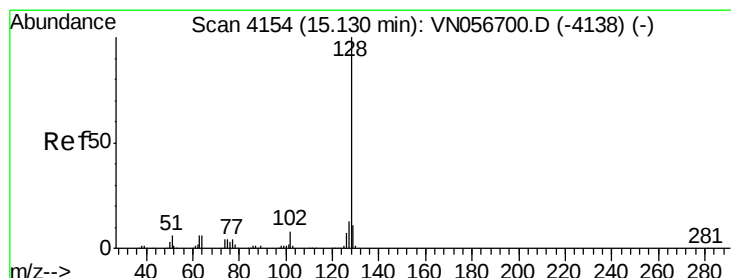
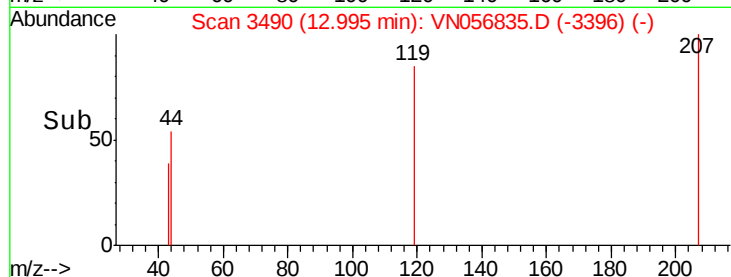
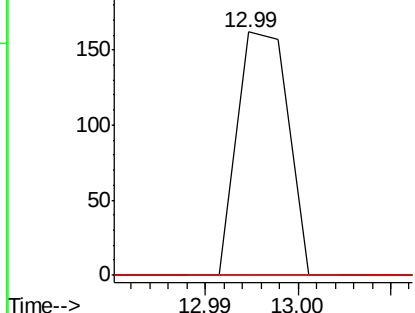
MSVOA_N

ClientSampleId :

Tot Ion:	119	Resp:	62
Ion	Ratio	Lower	Upper
119	100		
91	0.0	31.8	95.4#
134	0.0	13.0	38.9#



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#95

Naphthalene

Concen: 4.826 ug/l

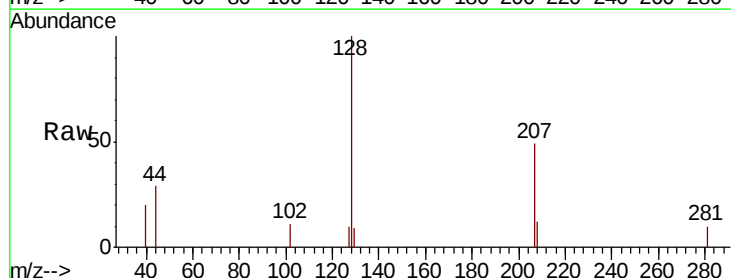
RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

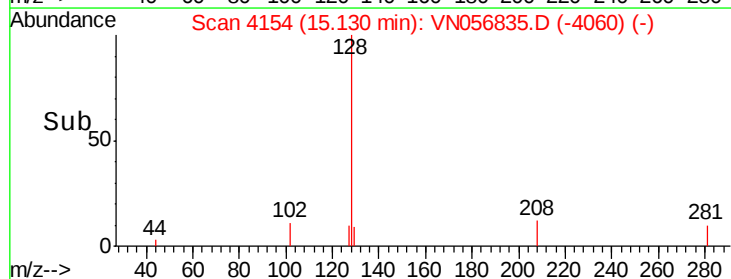
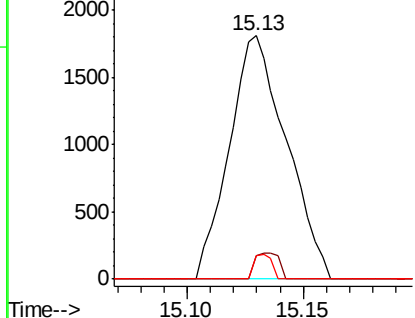
Lab File: VN056835.D

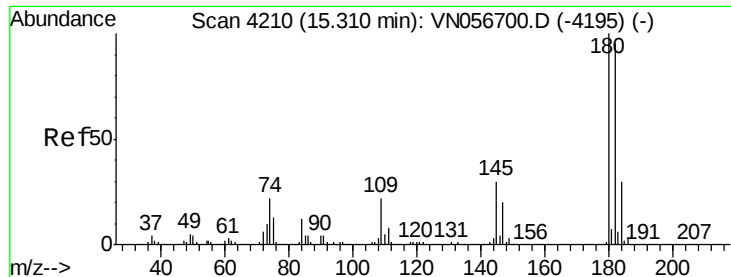
Acq: 19 Jul 2019 16:27

Tgt Ion:	128	Resp:	3095
Ion	Ratio	Lower	Upper
128	100		
127	4.6	10.3	15.5#
129	3.2	8.7	13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.371 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN056835.D
 Acq: 19 Jul 2019 16:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	104.5	47.1	141.3
145	0.0	15.0	45.1

