

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056829.D
 Acq On : 19 Jul 2019 14:08
 Operator : JC/SP
 Sample : PB121463ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 23:14:29 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	248298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	450098	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	494158	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	175261	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	146760	53.43	ug/l	0.00
Spiked Amount			Recovery	=	106.86%	
35) Dibromofluoromethane	7.59	113	135613	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
50) Toluene-d8	10.09	98	577716	53.40	ug/l	0.00
Spiked Amount			Recovery	=	106.80%	
62) 4-Bromofluorobenzene	12.40	95	211411	57.95	ug/l	0.00
Spiked Amount			Recovery	=	115.90%	

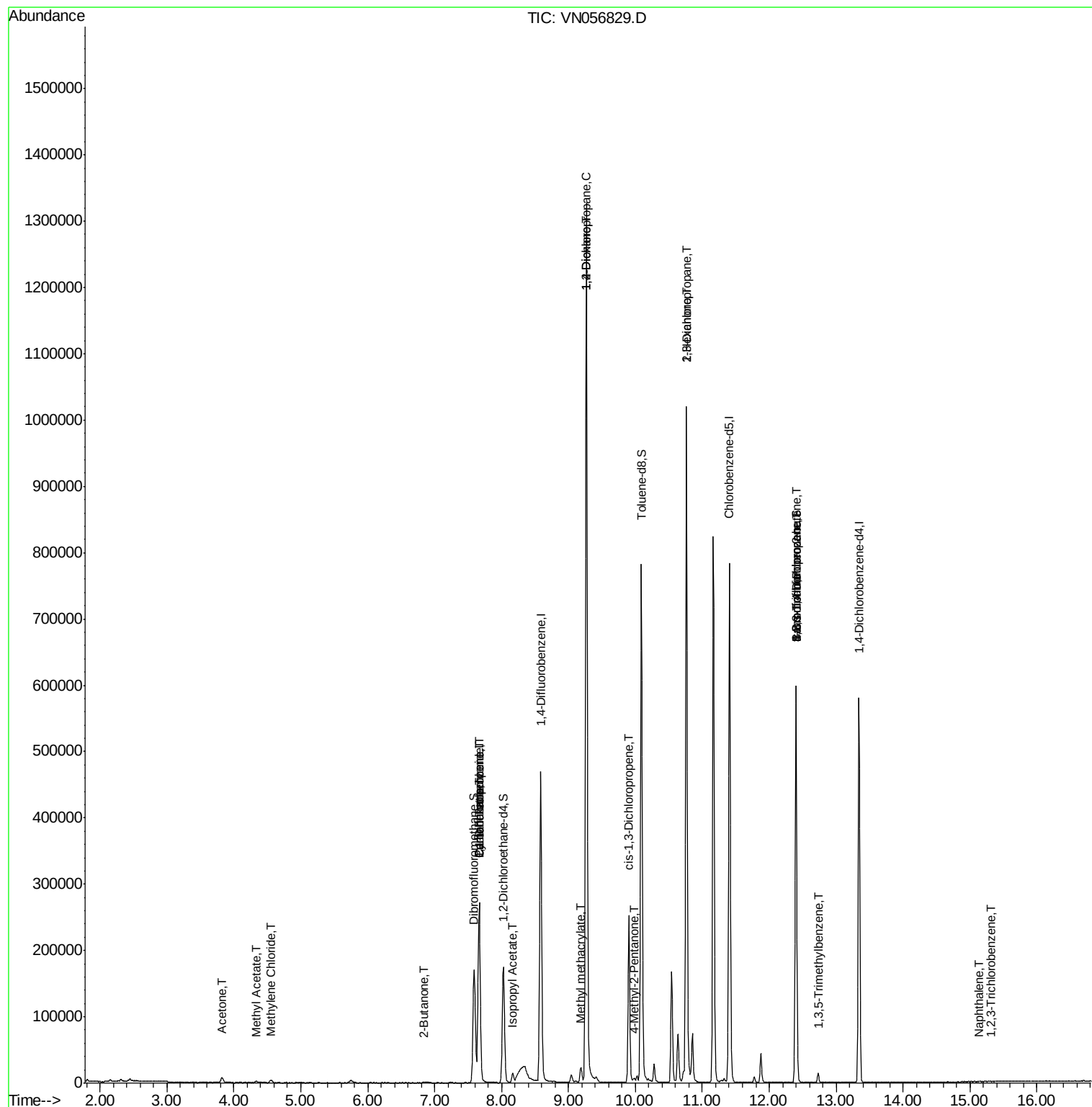
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12954	10.235	ug/l	94
18) Methyl Acetate	4.34	43	4938	0.779	ug/l #	67
20) Methylene Chloride	4.55	84	2698	0.975	ug/l #	83
25) 2-Butanone	6.85	43	1955	1.057	ug/l #	48
31) Cyclohexane	7.66	56	3831	0.873	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	15826	3.800	ug/l #	49
38) Carbon Tetrachloride	7.66	117	20997	5.376	ug/l #	15
43) Isopropyl Acetate	8.17	43	17804	2.759	ug/l #	91
45) 1,2-Dichloropropane	9.27	63	1803	0.532	ug/l #	45
48) Methyl methacrylate	9.18	41	8143	2.609	ug/l #	13
49) 1,4-Dioxane	9.27	88	102	1.593	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3965	0.949	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	49688	10.278	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	10685	2.058	ug/l #	42
59) 2-Hexanone	10.76	43	147918	49.320	ug/l #	51
71) Bromoform	12.40	173	1465	0.518	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	96695	25.226	ug/l #	100
79) 2-Chlorotoluene	12.73	91	687	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	7947	0.664	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	96695	77.905	ug/l #	13
83) tert-Butylbenzene	12.73	119	896	Below Cal	#	73
95) Naphthalene	15.13	128	179	4.543	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	112	3.354	ug/l #	34

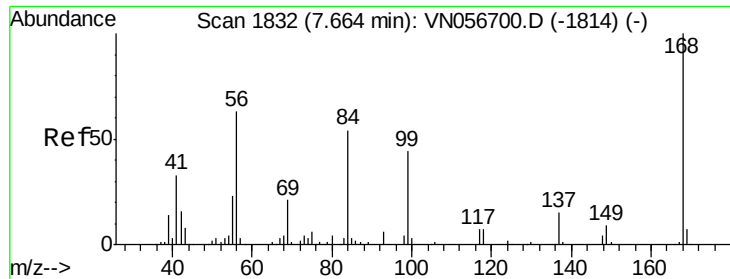
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 07:03:34 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

Instrument :

MSVOA_N

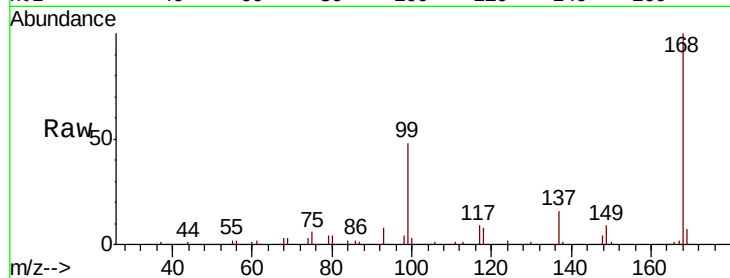
ClientSampled :

Tot Ion:168 Resp: 248298

Ion Ratio Lower Upper

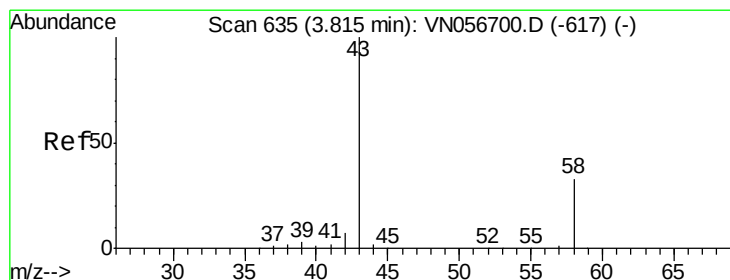
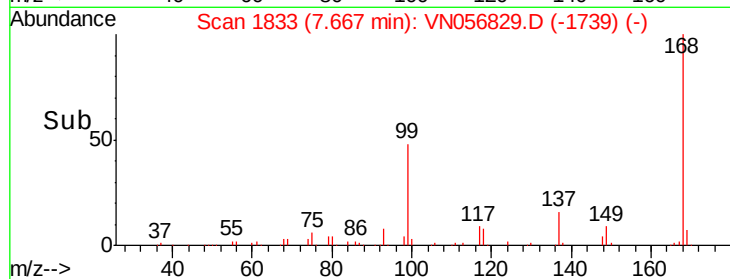
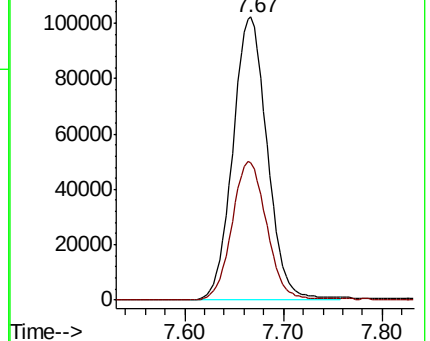
168 100

99 48.5 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 10.235 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN056829.D

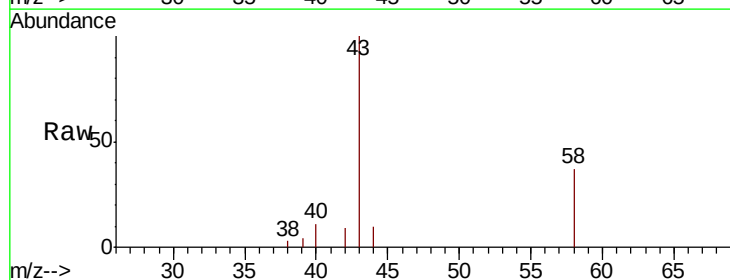
Acq: 19 Jul 2019 14:08

Tgt Ion: 43 Resp: 12954

Ion Ratio Lower Upper

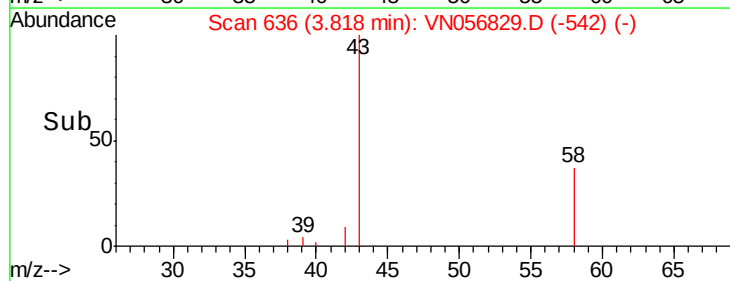
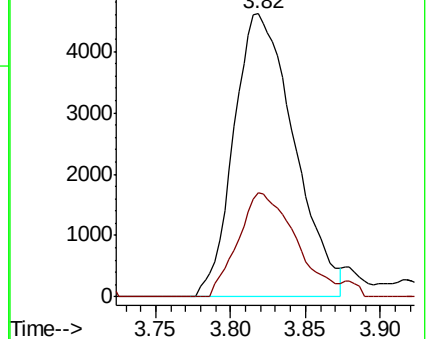
43 100

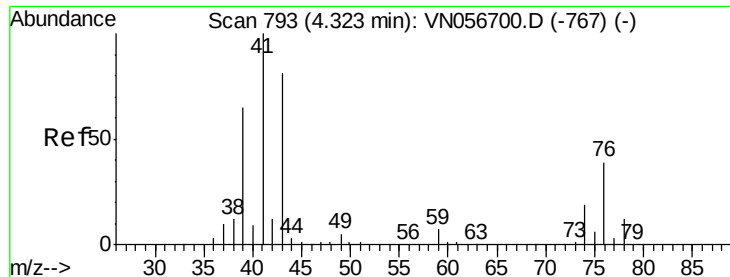
58 36.8 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

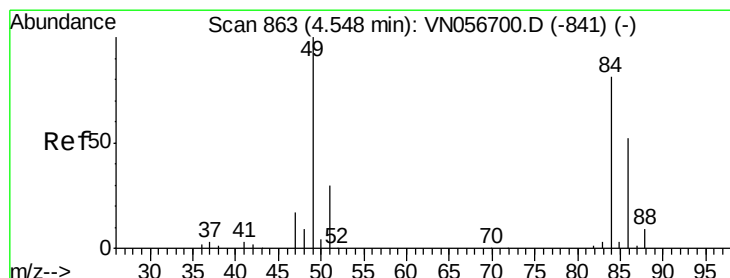
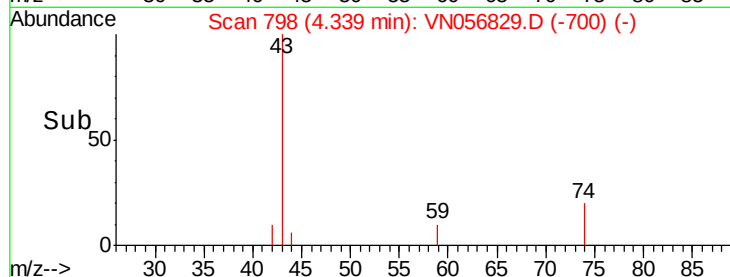
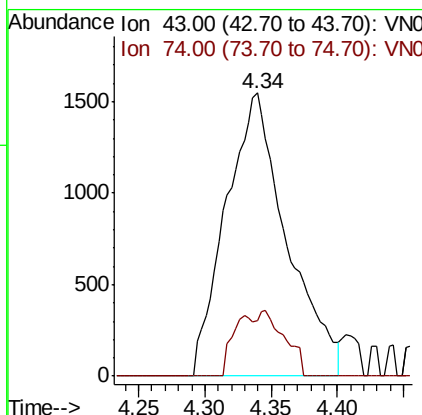
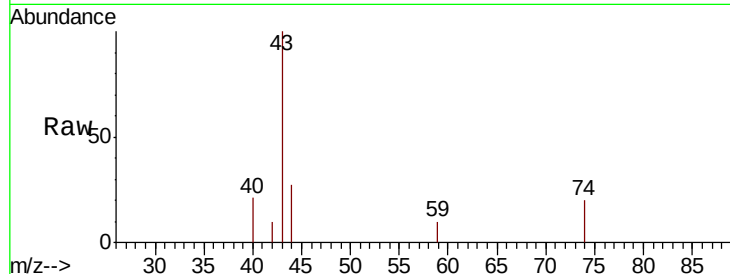




#18
Methyl Acetate
Concen: 0.779 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN056829.D
Acq: 19 Jul 2019 14:08

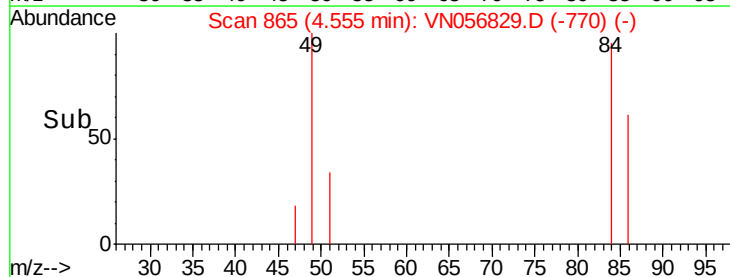
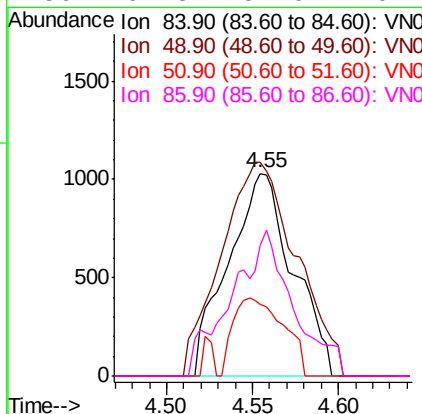
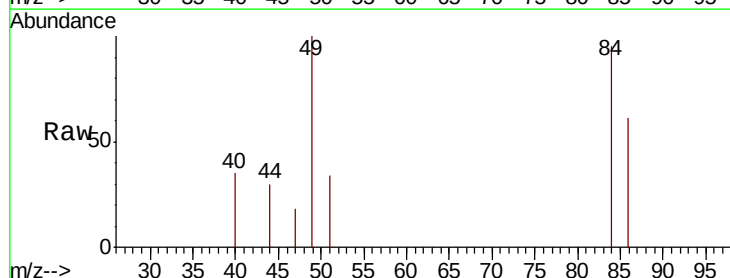
Instrument :
MSVOA_N
ClientSampleId :

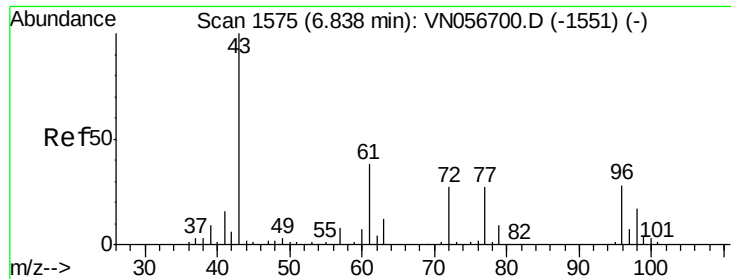
Tot Ion: 43 Resp: 4938
Ion Ratio Lower Upper
43 100
74 7.5 18.9 28.3#



#20
Methylene Chloride
Concen: 0.975 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN056829.D
Acq: 19 Jul 2019 14:08

Tgt Ion: 84 Resp: 2698
Ion Ratio Lower Upper
84 100
49 90.3 98.2 147.4#
51 35.5 29.6 44.4
86 64.3 51.0 76.4

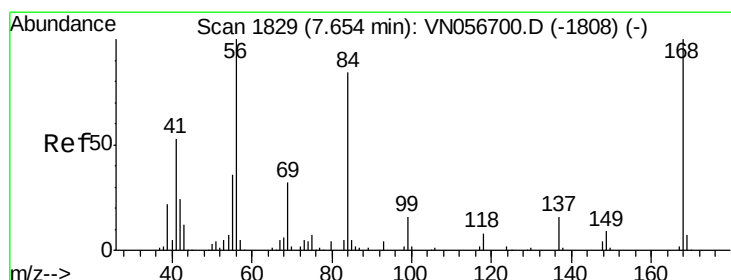
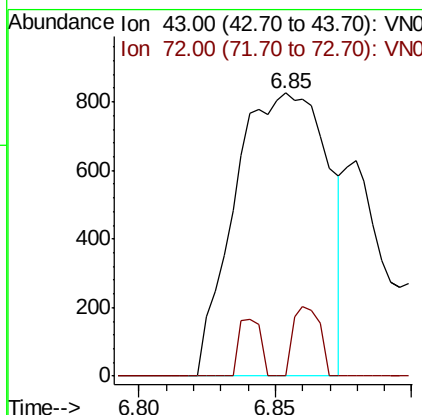
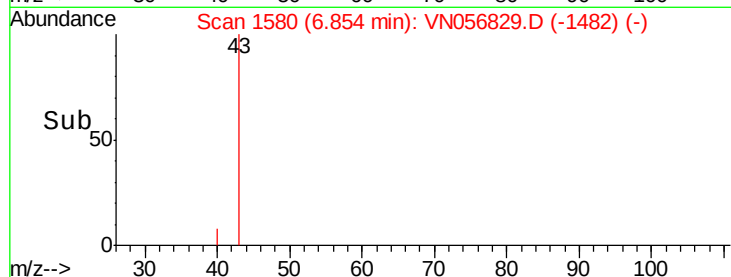
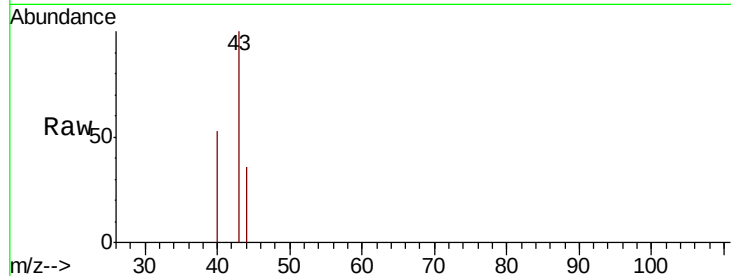




#25
2-Butanone
Concen: 1.057 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN056829.D
Acq: 19 Jul 2019 14:08

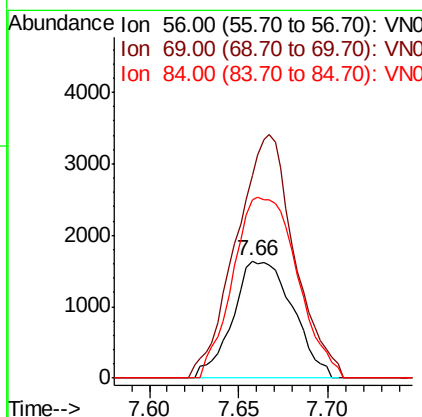
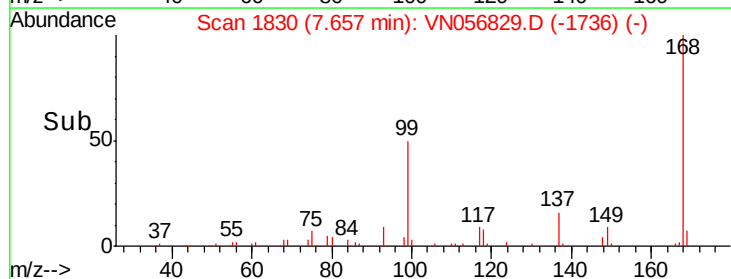
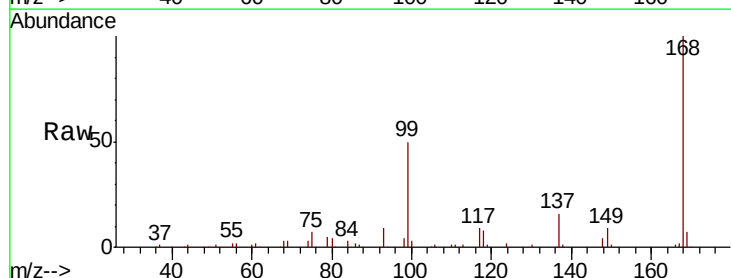
Instrument :
MSVOA_N
ClientSampleId :

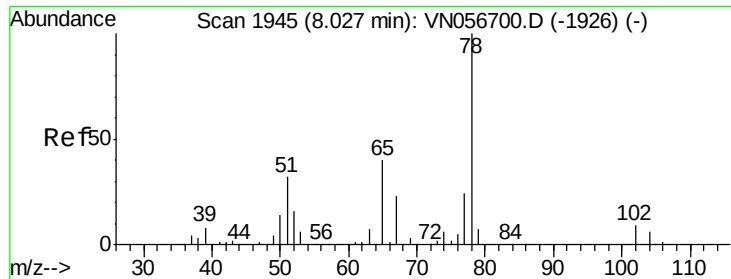
Tot Ion: 43 Resp: 1955
Ion Ratio Lower Upper
43 100
72 0.0 21.2 31.8#



#31
Cyclohexane
Concen: 0.873 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN056829.D
Acq: 19 Jul 2019 14:08

Tgt Ion: 56 Resp: 3831
Ion Ratio Lower Upper
56 100
69 172.7 25.8 38.8#
84 152.6 67.4 101.0#

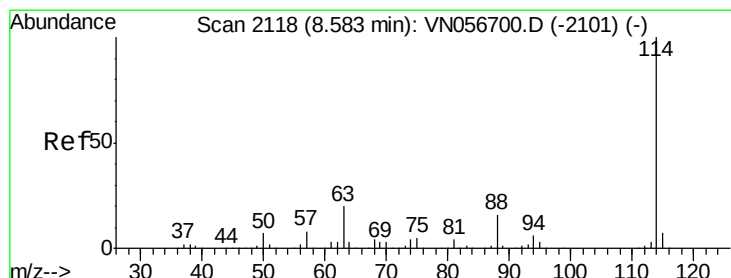
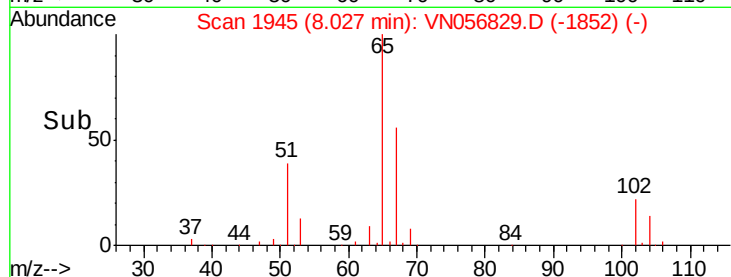
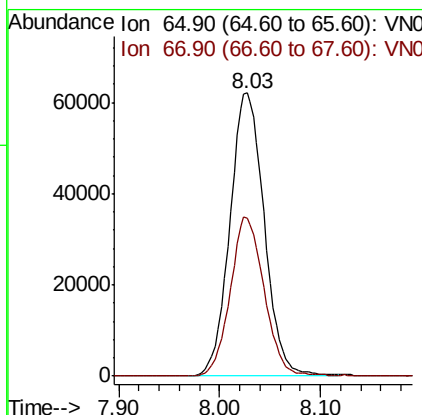
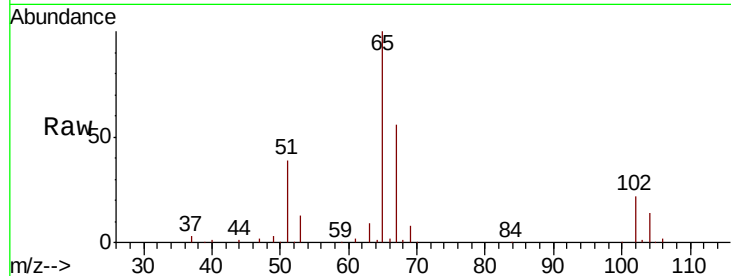




#33
 1,2-Dichloroethane-d4
 Concen: 53.435 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056829.D
 Acq: 19 Jul 2019 14:08

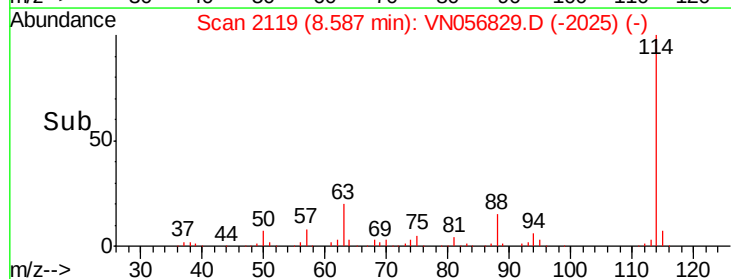
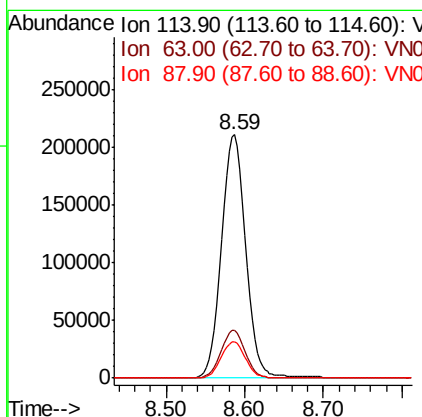
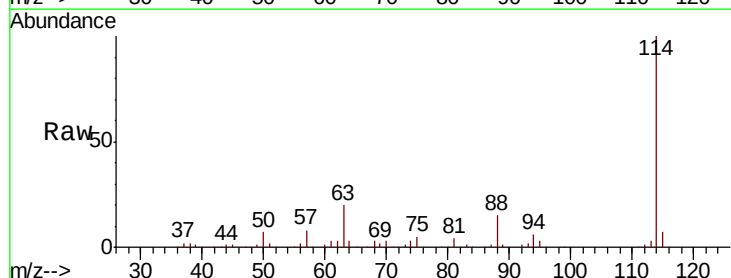
Instrument :
 MSVOA_N
 ClientSampleId :

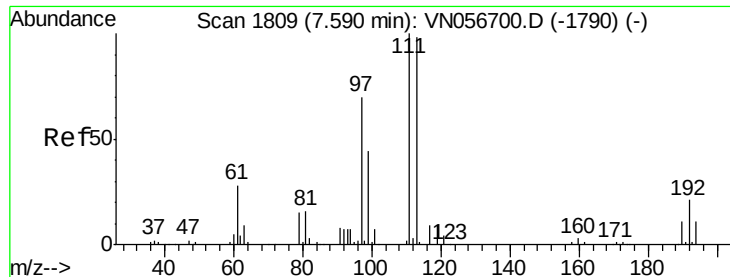
Tot Ion: 65 Resp: 146760
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056829.D
 Acq: 19 Jul 2019 14:08

Tgt Ion: 114 Resp: 450098
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.4
 88 15.1 0.0 31.2

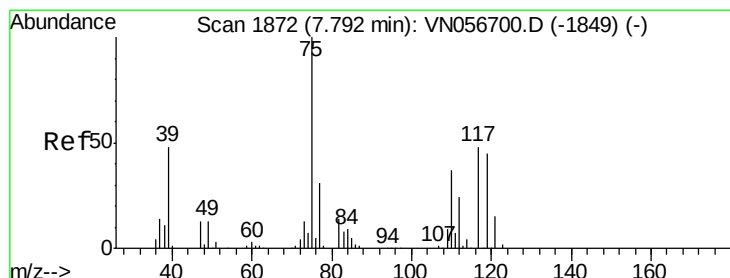
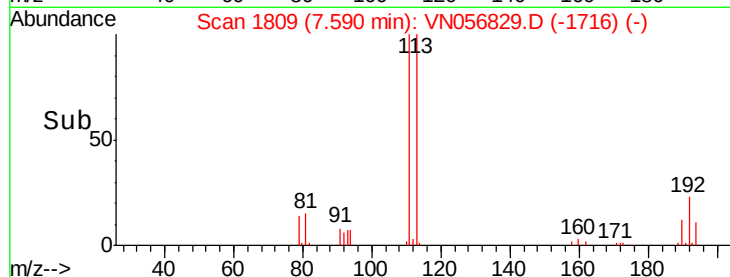
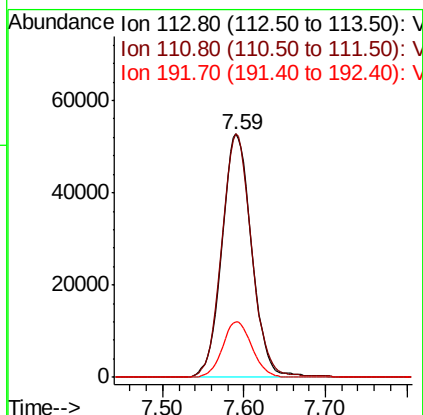
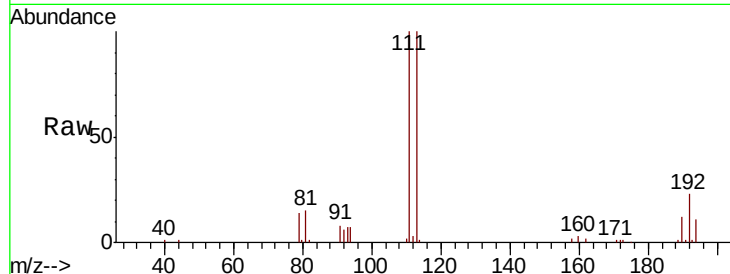




#35
 Dibromofluoromethane
 Concen: 48.415 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056829.D
 Acq: 19 Jul 2019 14:08

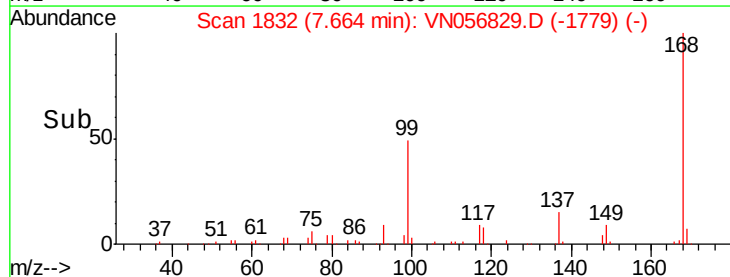
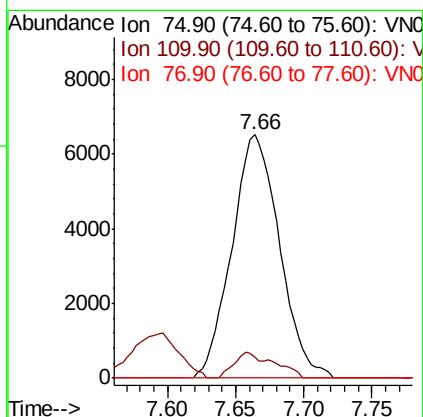
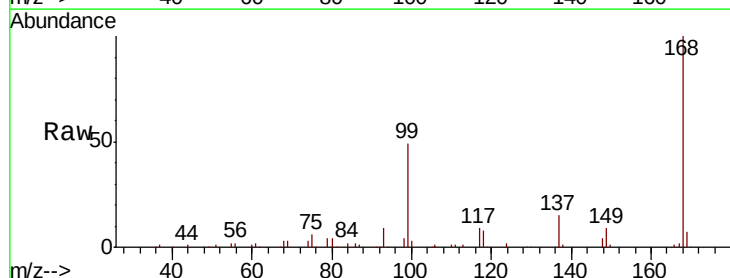
Instrument :
 MSVOA_N
 ClientSampleId :

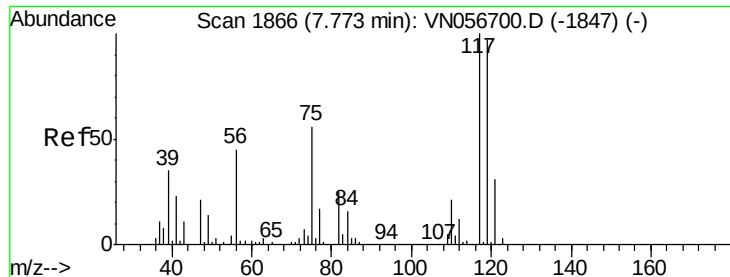
Tot Ion:113 Resp: 135613
 Ion Ratio Lower Upper
 113 100
 111 100.4 81.8 122.6
 192 22.5 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 3.800 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056829.D
 Acq: 19 Jul 2019 14:08

Tgt Ion: 75 Resp: 15826
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.4 55.4#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.376 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

Instrument :

MSVOA_N

ClientSampled :

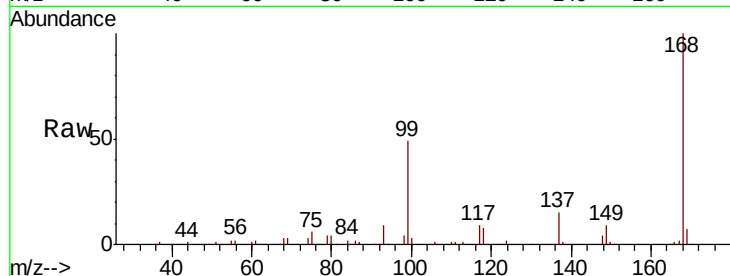
Tot Ion:117 Resp: 20997

Ion Ratio Lower Upper

117 100

119 4.9 77.5 116.3#

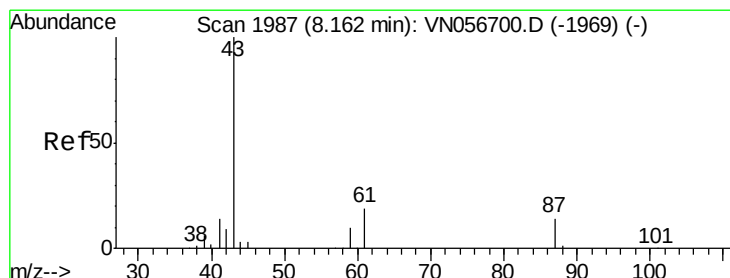
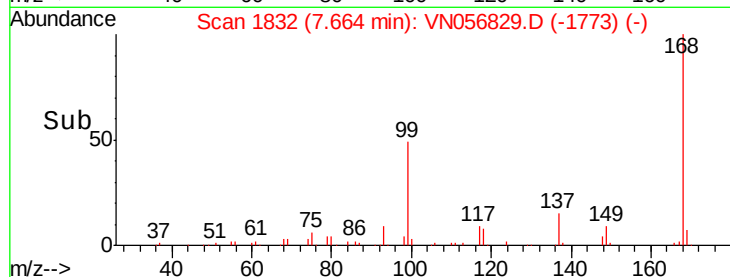
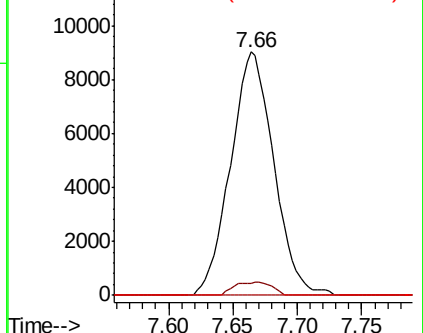
121 0.0 24.7 37.1#



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: 2.759 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

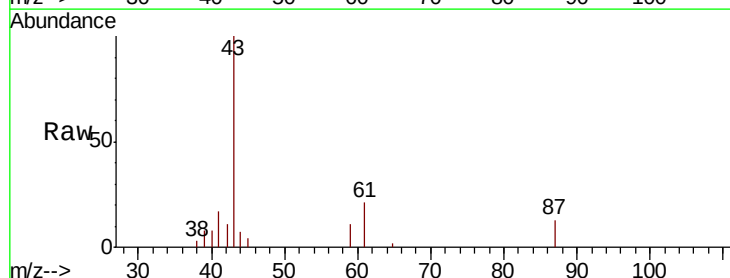
Tgt Ion: 43 Resp: 17804

Ion Ratio Lower Upper

43 100

61 21.6 22.3 33.5#

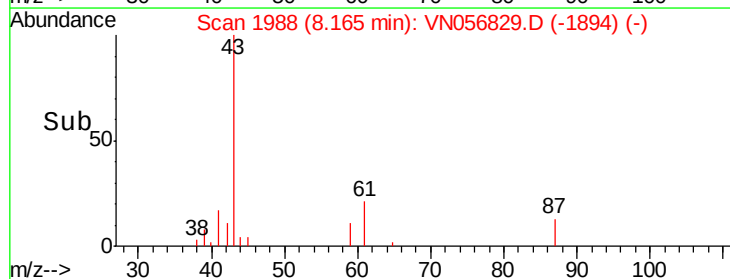
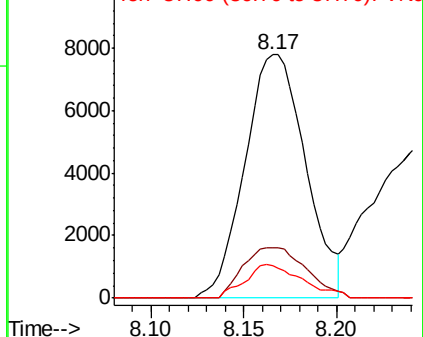
87 13.0 11.1 16.7

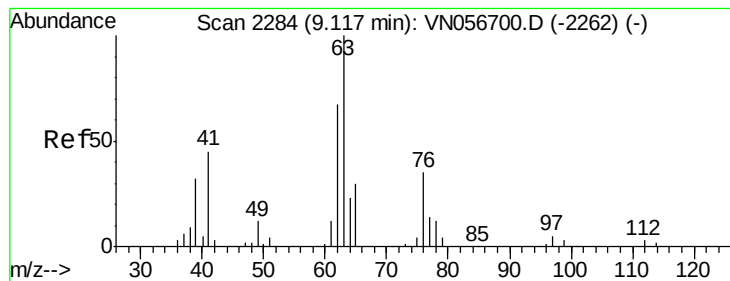


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.532 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

Instrument :

MSVOA_N

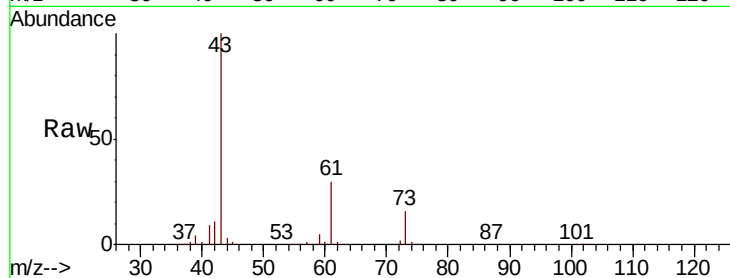
ClientSampleId :

Tot Ion: 63 Resp: 1803

Ion Ratio Lower Upper

63 100

65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.27

1200

1000

800

600

400

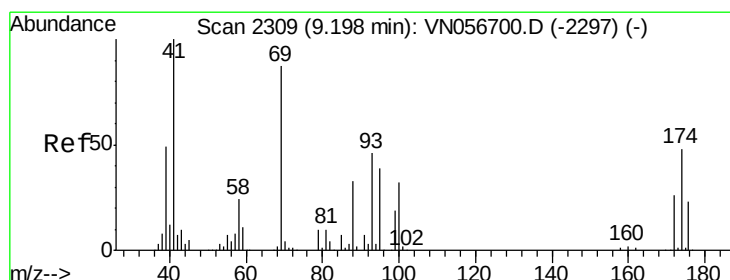
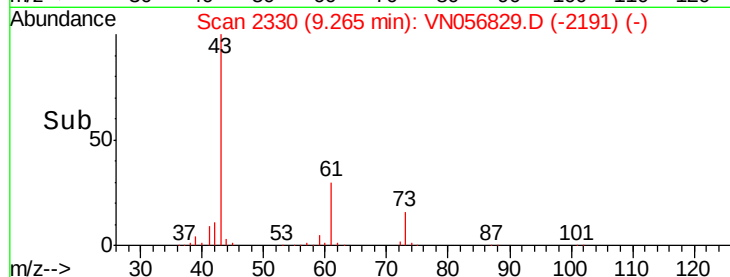
200

0

9.25

9.30

Time-->



#48

Methyl methacrylate

Concen: 2.609 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

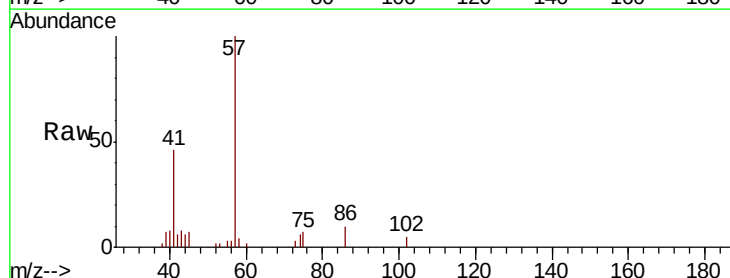
Tgt Ion: 41 Resp: 8143

Ion Ratio Lower Upper

41 100

69 0.0 71.4 107.0#

39 0.0 41.2 61.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

80000

60000

40000

20000

0

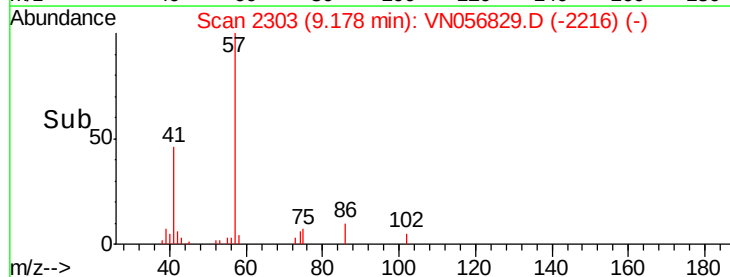
9.10

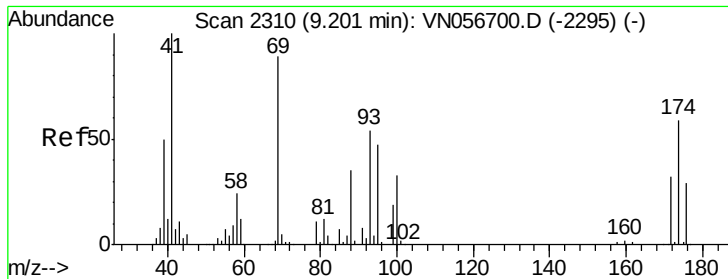
9.15

9.20

9.25

Time-->





#49

1,4-Dioxane

Concen: 1.593 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

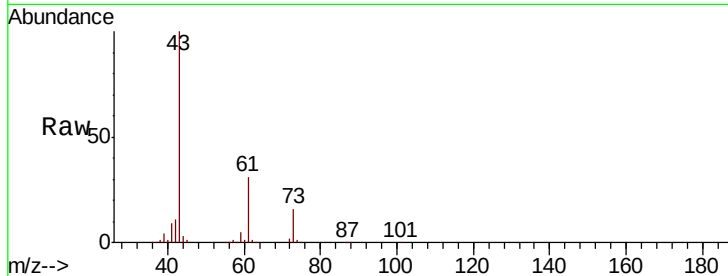
Tot Ion: 88 Resp: 102

Ion Ratio Lower Upper

88 100

43 1292838.2 23.7 35.5#

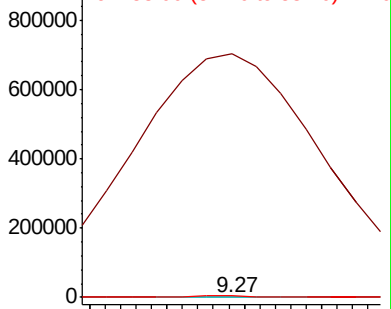
58 5988.2 55.6 83.4#



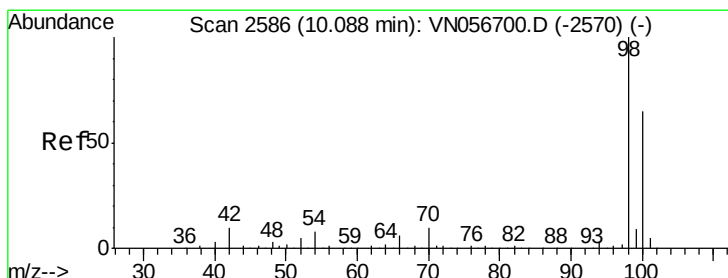
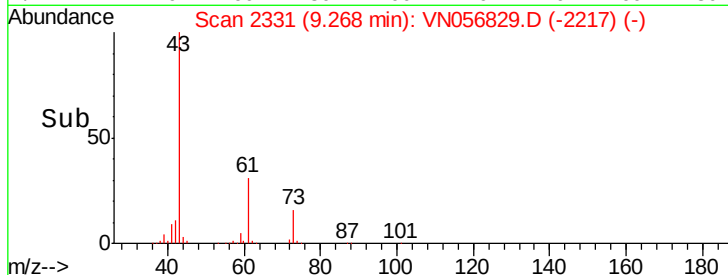
Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#50

Toluene-d8

Concen: 53.402 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056829.D

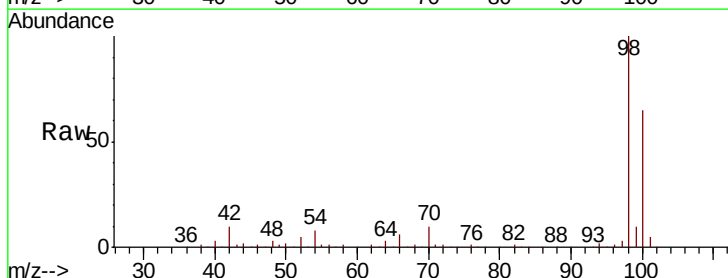
Acq: 19 Jul 2019 14:08

Tgt Ion: 98 Resp: 577716

Ion Ratio Lower Upper

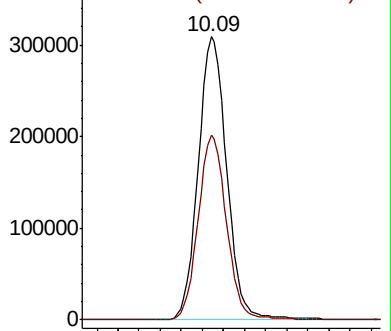
98 100

100 65.3 52.0 78.0

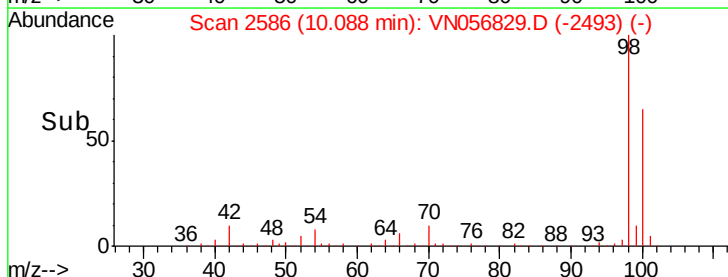


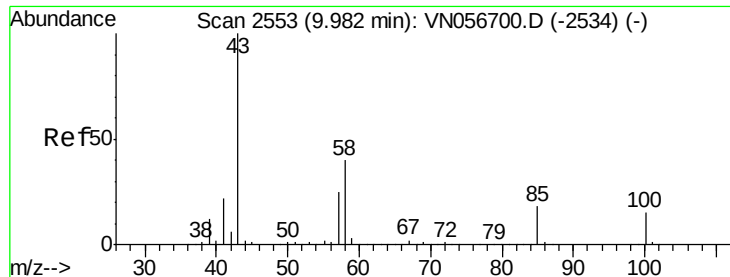
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.949 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

Instrument :

MSVOA_N

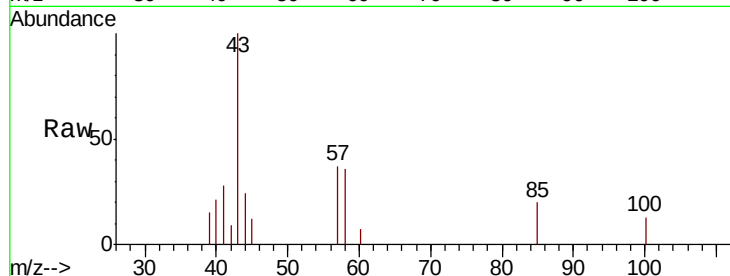
ClientSampled :

Tot Ion: 43 Resp: 3965

Ion Ratio Lower Upper

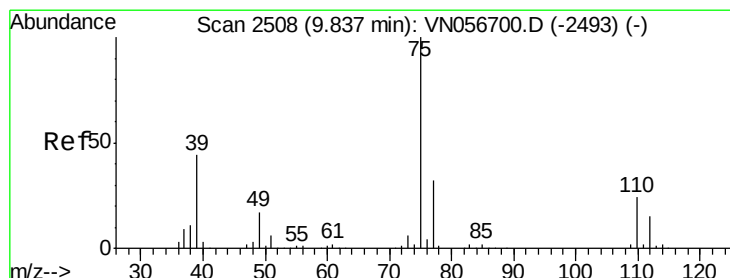
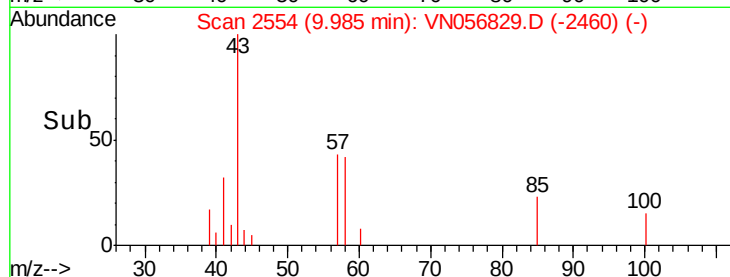
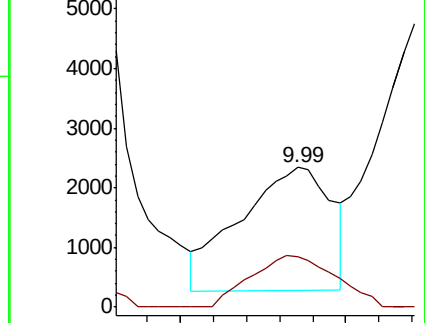
43 100

58 38.9 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 10.278 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

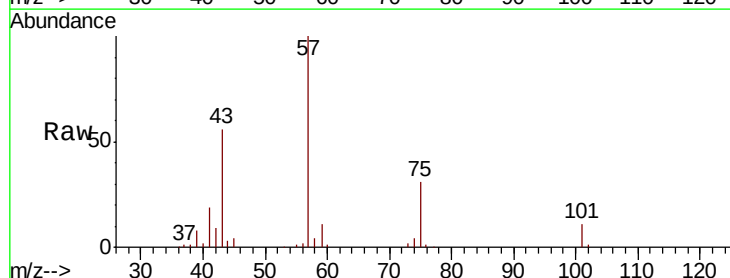
Tgt Ion: 75 Resp: 49688

Ion Ratio Lower Upper

75 100

77 0.6 26.0 39.0#

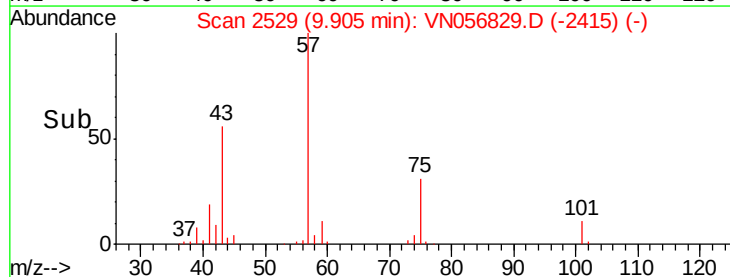
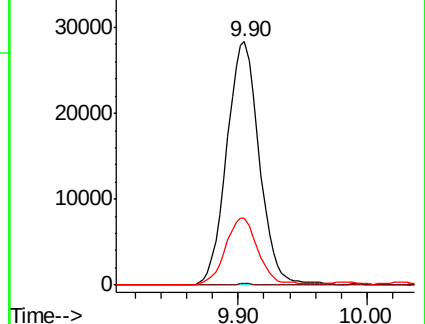
39 27.5 35.1 52.7#

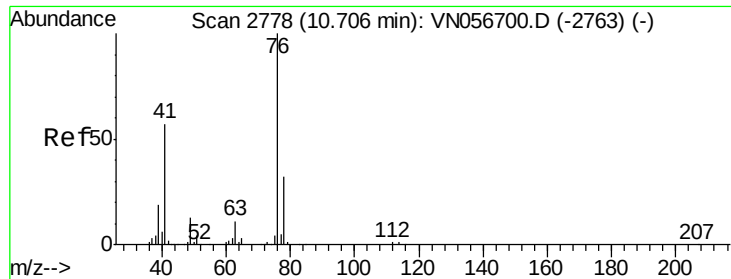


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

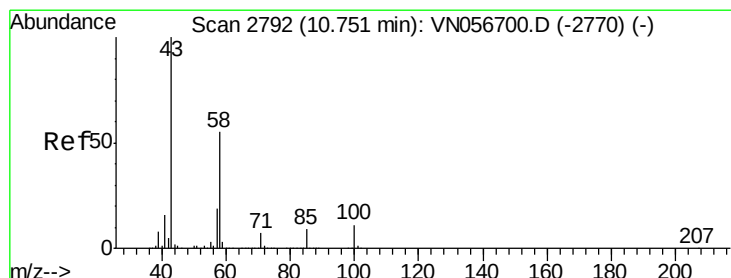
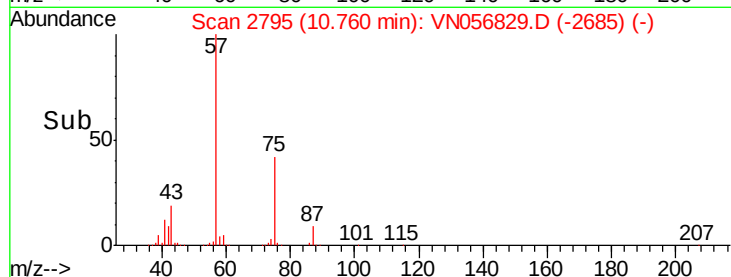
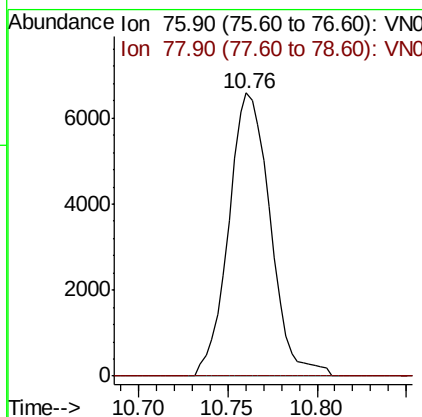
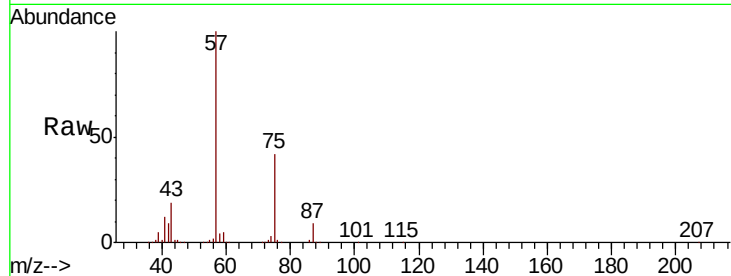




#57
 1,3-Dichloropropane
 Concen: 2.058 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN056829.D
 Acq: 19 Jul 2019 14:08

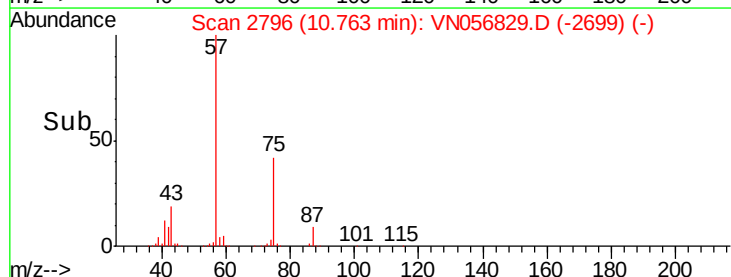
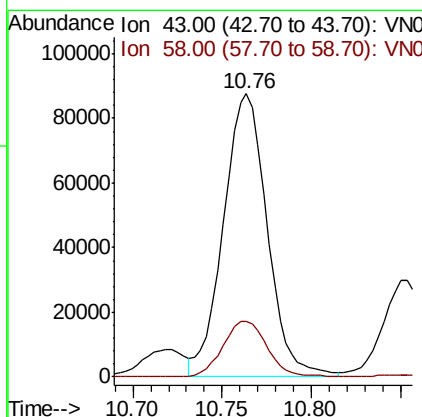
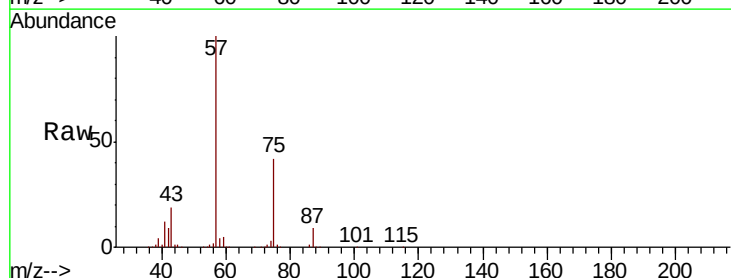
Instrument :
 MSVOA_N
 ClientSampleId :

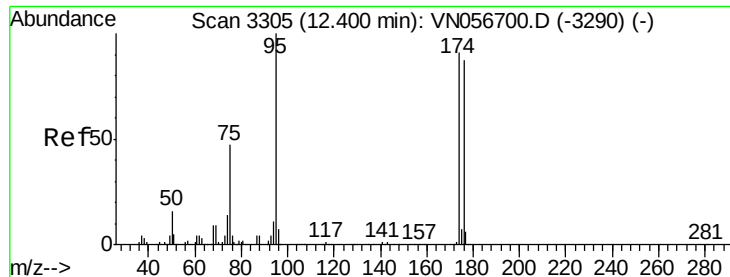
Tot Ion: 76 Resp: 10685
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 49.320 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN056829.D
 Acq: 19 Jul 2019 14:08

Tgt Ion: 43 Resp: 147918
 Ion Ratio Lower Upper
 43 100
 58 20.2 27.9 83.6#





#62

4-Bromofluorobenzene

Concen: 57.948 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

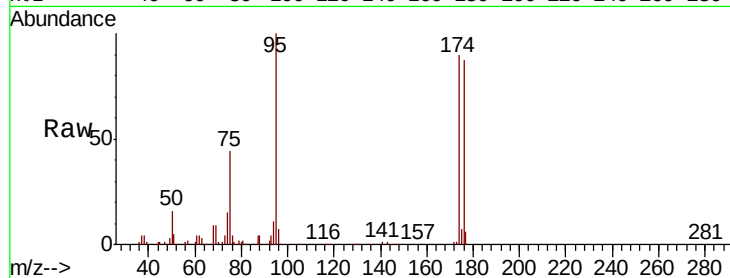
Tot Ion: 95 Resp: 211411

Ion Ratio Lower Upper

95 100

174 91.4 0.0 180.0

176 87.5 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN056829.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN056829.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN056829.D (-2903) (-)

12.40

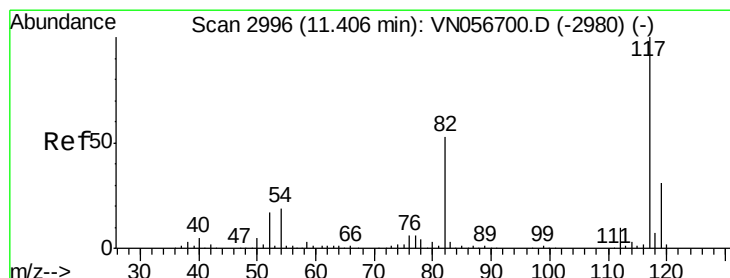
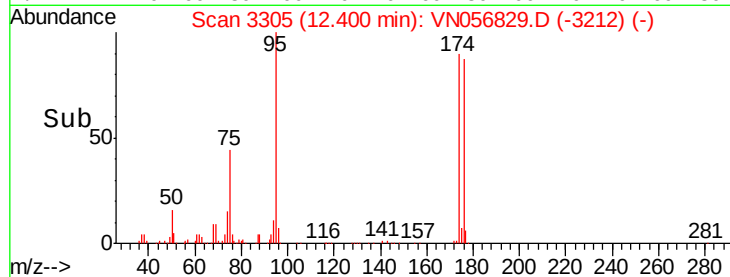
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

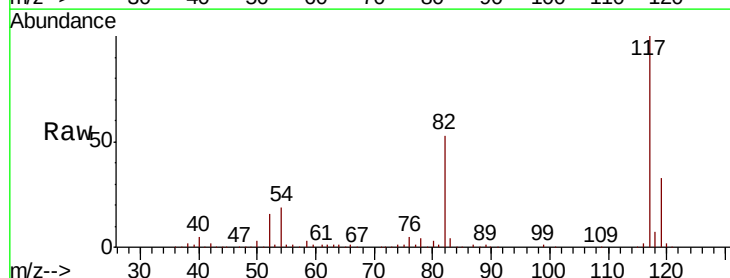
Tgt Ion: 117 Resp: 494158

Ion Ratio Lower Upper

117 100

82 52.8 42.2 63.2

119 32.6 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): VN056829.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN056829.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN056829.D (-2903) (-)

11.41

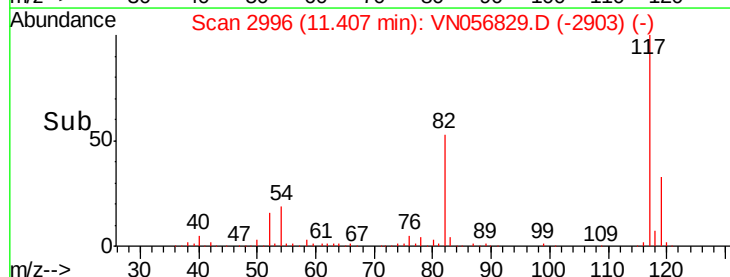
300000

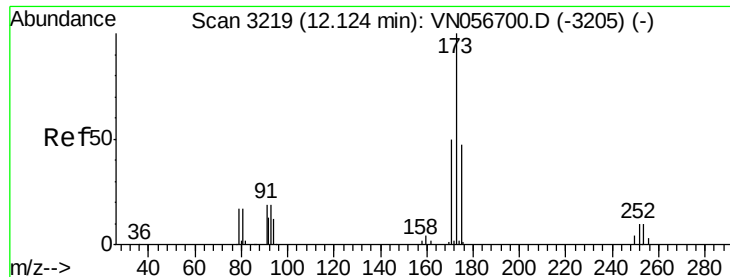
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.518 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

Instrument :

MSVOA_N

ClientSampled :

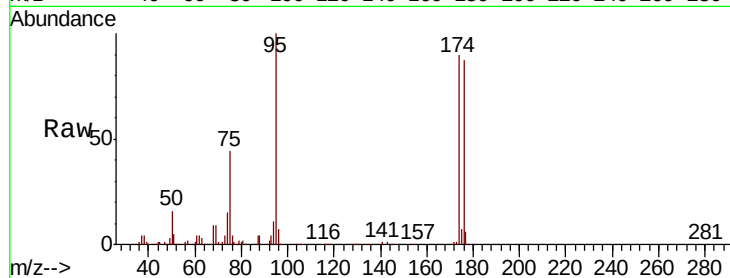
Tot Ion:173 Resp: 1465

Ion Ratio Lower Upper

173 100

175 796.3 23.8 71.4#

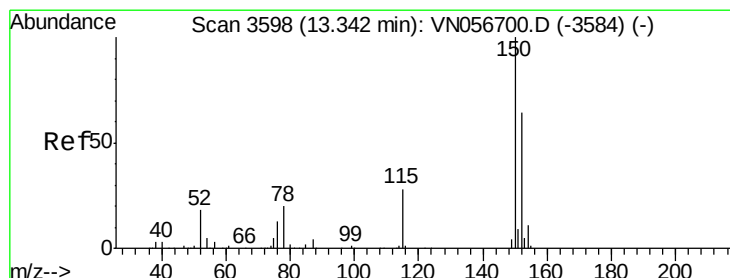
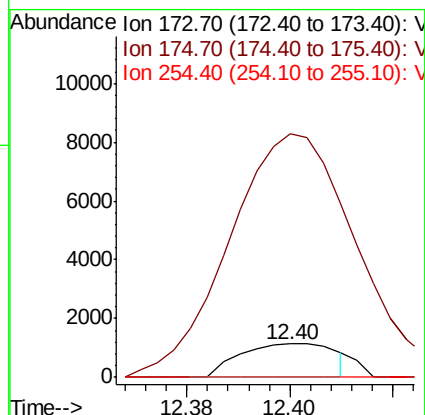
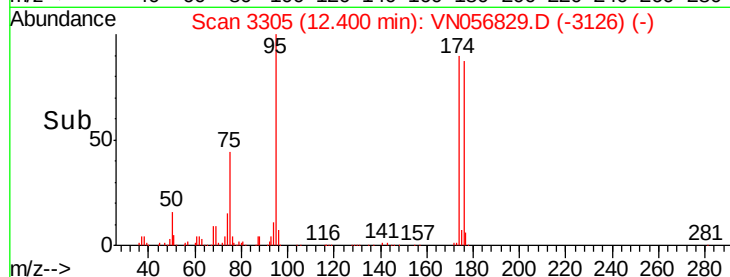
254 0.0 0.0 0.0



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: VN056829.D

Acq: 19 Jul 2019 14:08

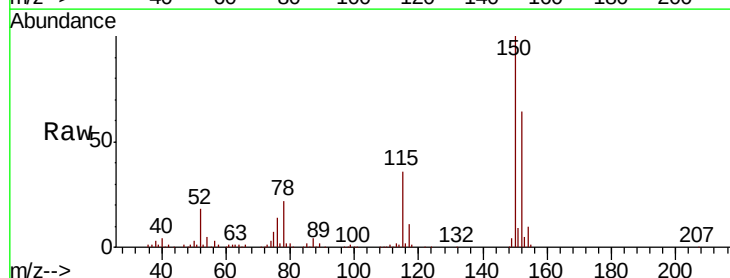
Tgt Ion:152 Resp: 175261

Ion Ratio Lower Upper

152 100

115 55.3 28.2 84.7

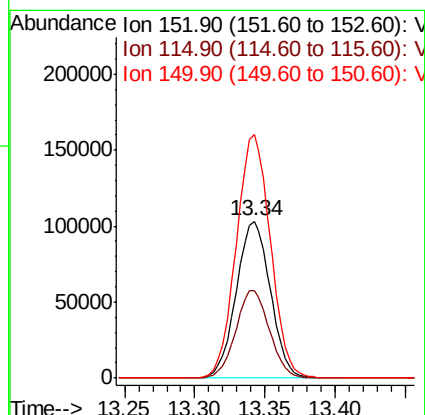
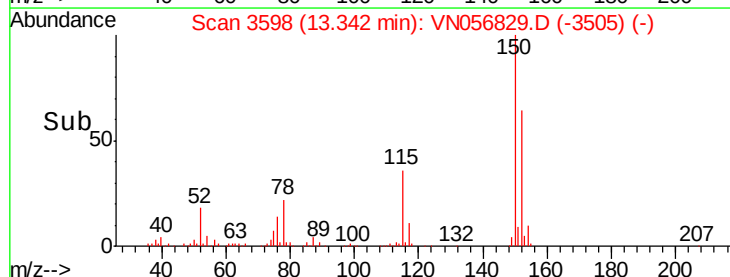
150 155.3 0.0 345.8

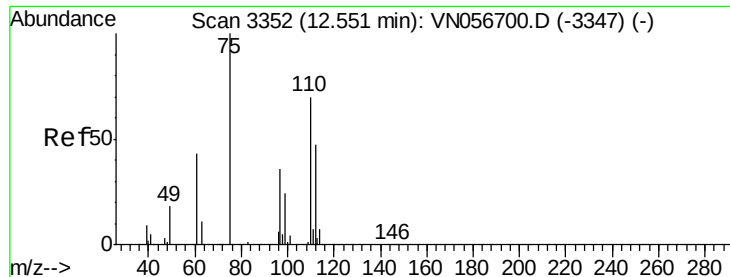


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.226 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

Instrument :

MSVOA_N

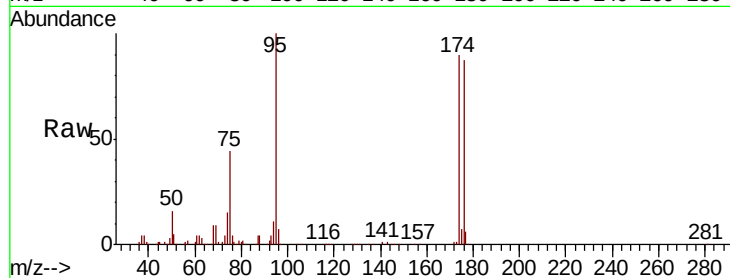
ClientSampleId :

Tot Ion: 75 Resp: 96695

Ion Ratio Lower Upper

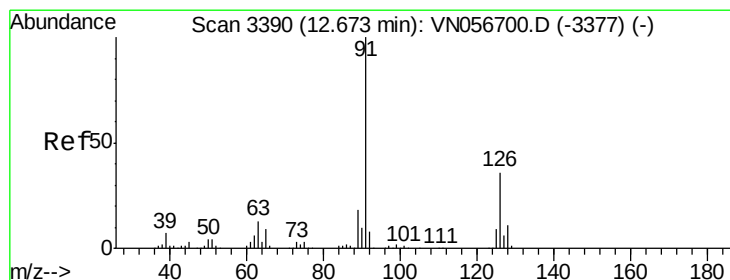
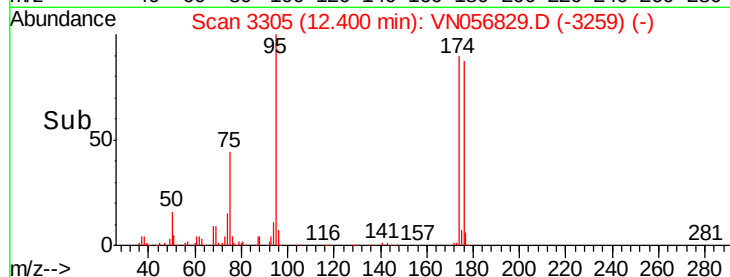
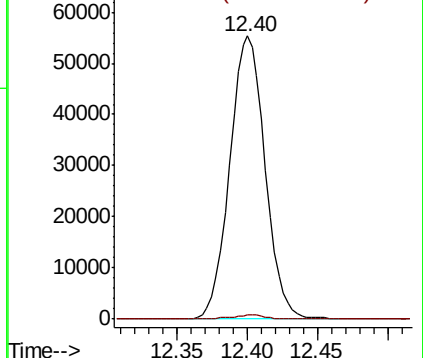
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.73 min Scan# 3407

Delta R.T. 0.05 min

Lab File: VN056829.D

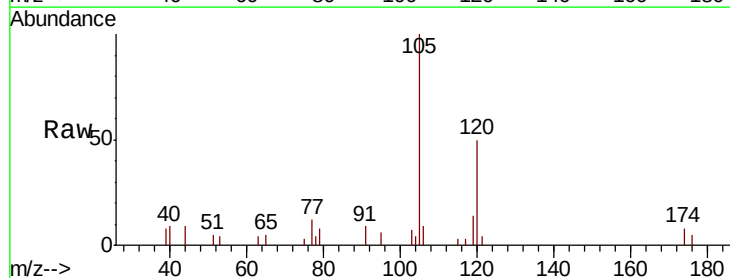
Acq: 19 Jul 2019 14:08

Tgt Ion: 91 Resp: 687

Ion Ratio Lower Upper

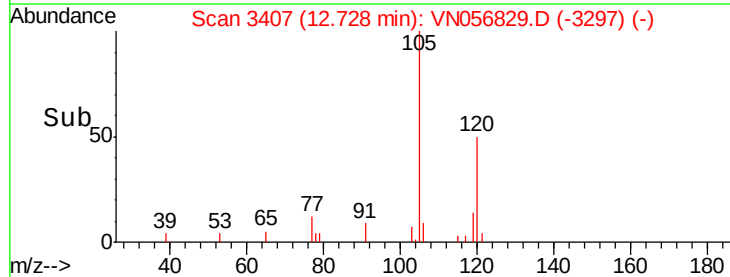
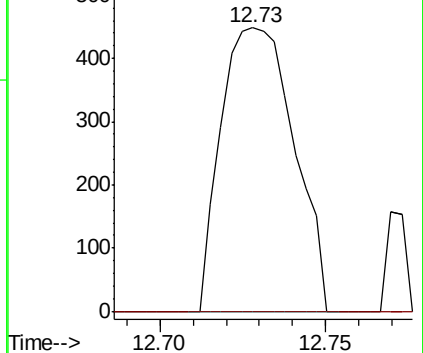
91 100

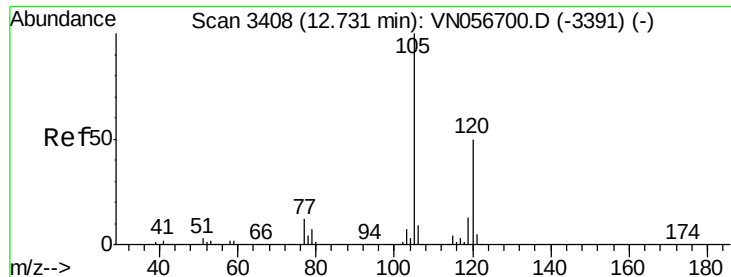
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 0.664 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

Instrument :

MSVOA_N

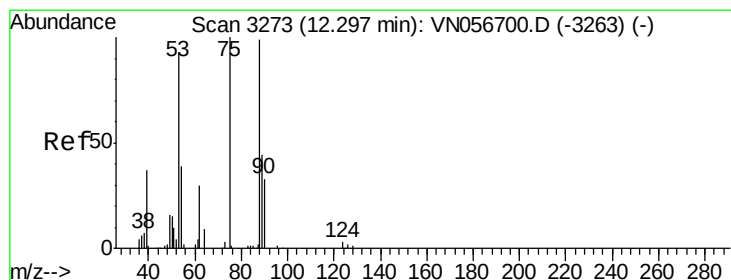
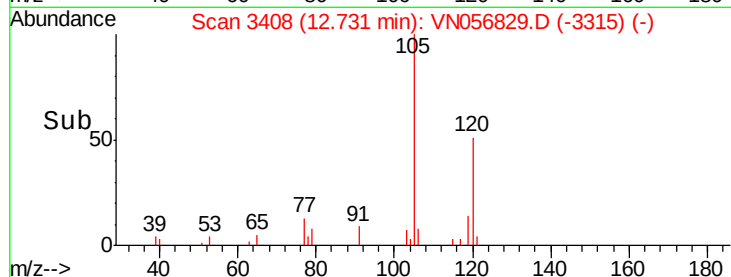
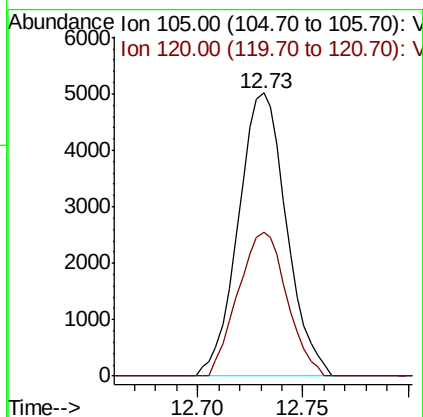
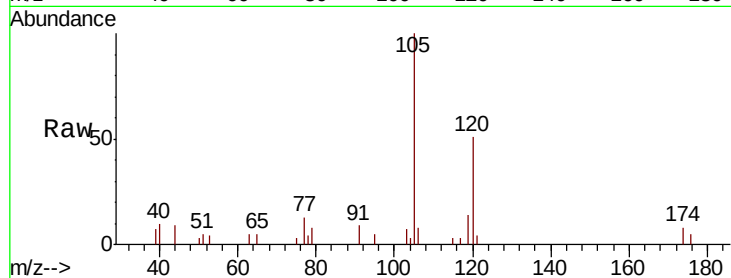
ClientSampled :

Tot Ion:105 Resp: 7947

Ion Ratio Lower Upper

105 100

120 51.7 24.8 74.3



#81

trans-1,4-Dichloro-2-butene

Concen: 77.905 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056829.D

Acq: 19 Jul 2019 14:08

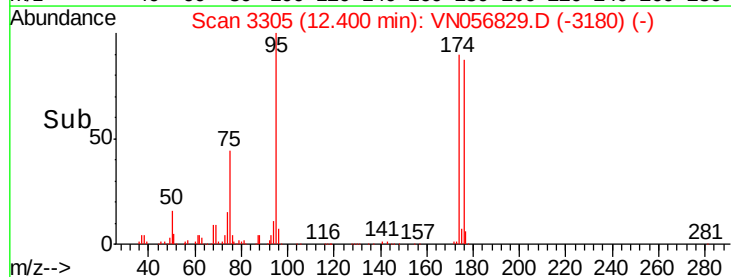
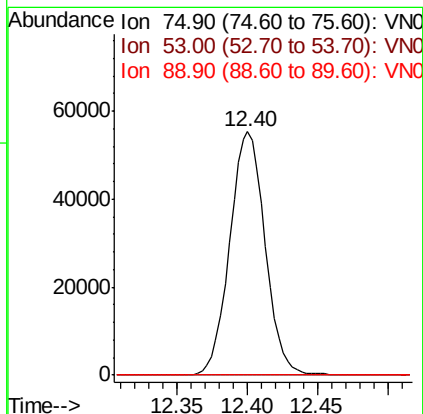
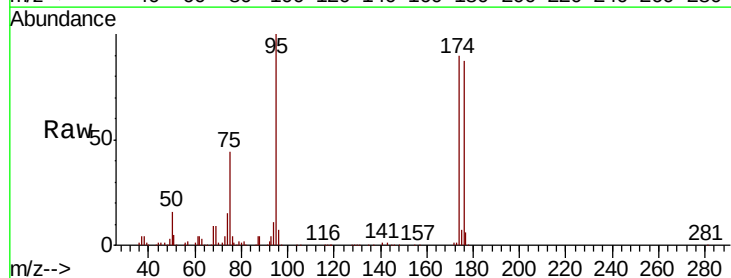
Tgt Ion: 75 Resp: 96695

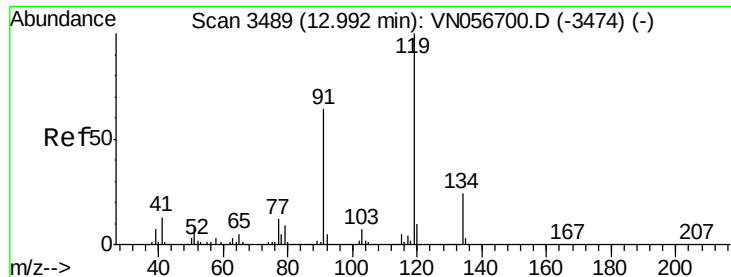
Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#

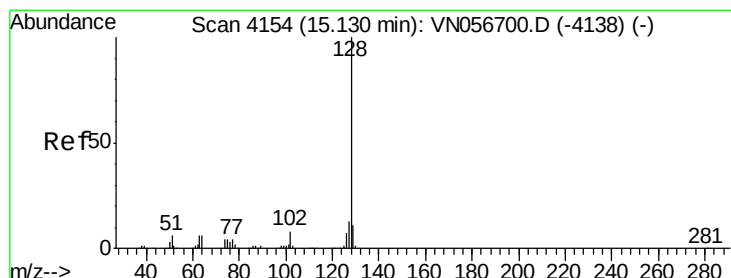
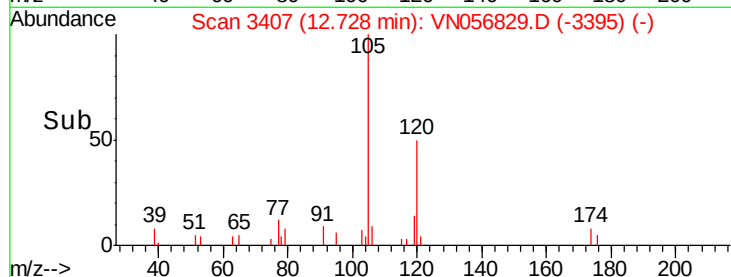
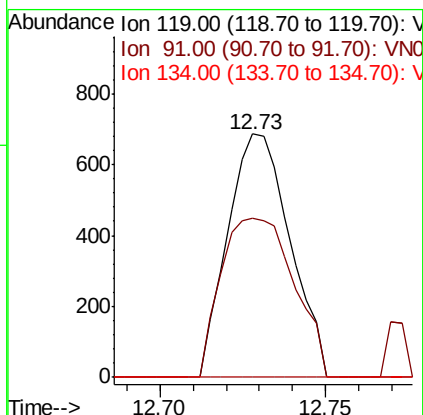
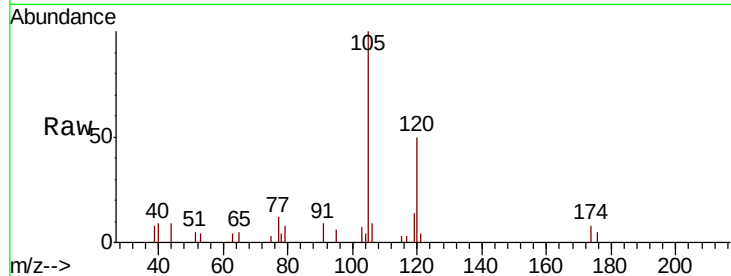




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.26 min
 Lab File: VN056829.D
 Acq: 19 Jul 2019 14:08

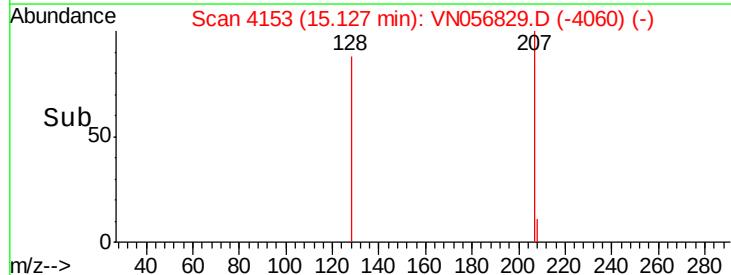
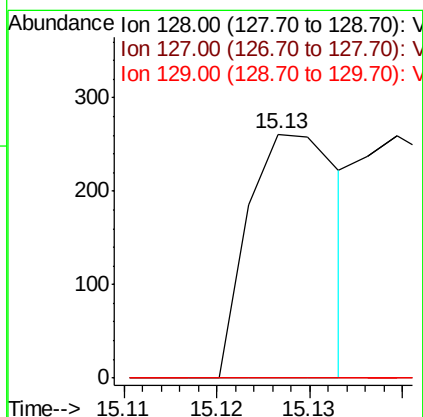
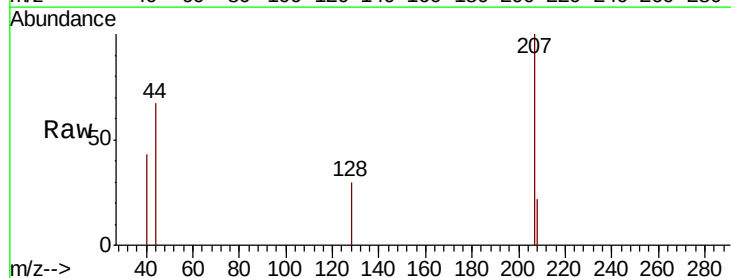
Instrument :
 MSVOA_N
 ClientSampleId :

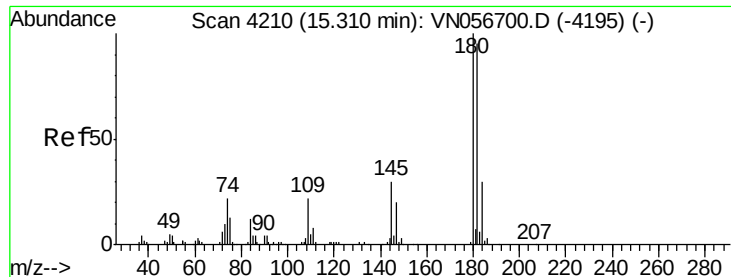
Tot Ion:119 Resp: 896
 Ion Ratio Lower Upper
 119 100
 91 76.7 31.8 95.4
 134 0.0 13.0 38.9#



#95
 Naphthalene
 Concen: 4.543 ug/l
 RT: 15.13 min Scan# 4153
 Delta R.T. -0.00 min
 Lab File: VN056829.D
 Acq: 19 Jul 2019 14:08

Tgt Ion:128 Resp: 179
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.7 13.1#

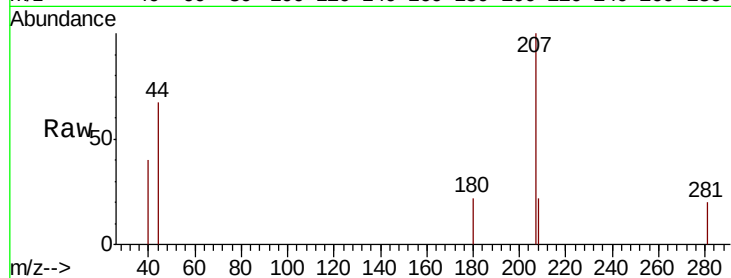




#96
 1,2,3-Trichlorobenzene
 Concen: 3.354 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN056829.D
 Acq: 19 Jul 2019 14:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 112
 Ion Ratio Lower Upper
 180 100
 182 26.8 47.1 141.3#
 145 0.0 15.0 45.1#



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

