

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055755.D
 Acq On : 23 May 2019 15:56
 Operator : JC/SP
 Sample : VN0523WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 24 06:48:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	427198	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	591403	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	514050	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	172074	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	194454	44.08	ug/l	0.00
Spiked Amount			Recovery	=	88.16%	
35) Dibromofluoromethane	7.59	113	181039	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
50) Toluene-d8	10.09	98	696904	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
62) 4-Bromofluorobenzene	12.40	95	213367	43.39	ug/l	0.00
Spiked Amount			Recovery	=	86.78%	

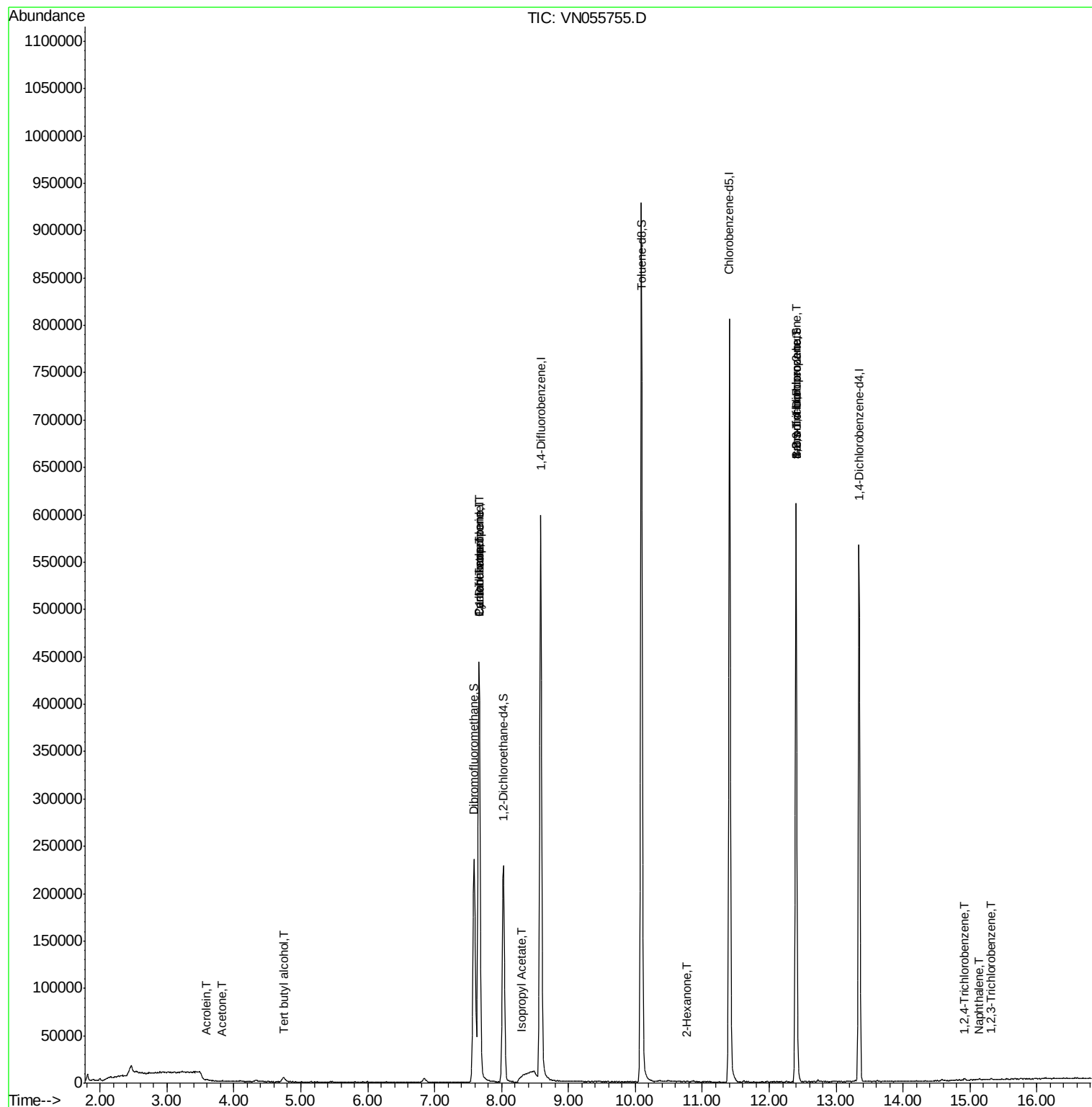
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	4306	5.108	ug/l #	74
13) Acrolein	3.59	56	350	0.580	ug/l #	52
16) Acetone	3.82	43	1727	0.891	ug/l #	41
18) Methyl Acetate	4.33	43	3421	Below Cal	#	69
31) Cyclohexane	7.66	56	6244	0.943	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24302	4.715	ug/l #	48
38) Carbon Tetrachloride	7.66	117	34066	6.346	ug/l #	15
43) Isopropyl Acetate	8.29	43	4441	0.531	ug/l #	53
59) 2-Hexanone	10.76	43	1167	0.333	ug/l #	23
71) Bromoform	12.40	173	1253	0.358	ug/l #	1
73) Isopropylbenzene	12.25	105	380	Below Cal	#	48
74) N-amyl acetate	12.06	43	217	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	98179	32.002	ug/l #	100
79) 2-Chlorotoluene	12.67	91	218	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	455	Below Cal	#	47
81) trans-1,4-Dichloro-2-buten	12.40	75	98179	76.768	ug/l #	15
83) tert-Butylbenzene	12.99	119	291	Below Cal	#	57
84) 1,2,4-Trimethylbenzene	13.05	105	486	Below Cal	#	51
85) sec-Butylbenzene	13.17	105	655	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	832	3.868	ug/l #	82
94) Hexachlorobutadiene	15.01	225	99	Below Cal	#	34
95) Naphthalene	15.14	128	1703	0.214	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.31	180	840	0.274	ug/l #	81

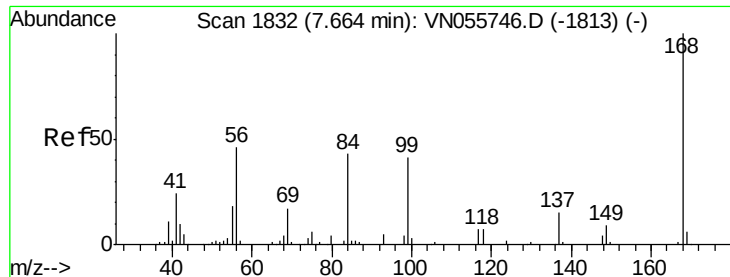
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 24 06:41:54 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055755.D

Acq: 23 May 2019 15:56

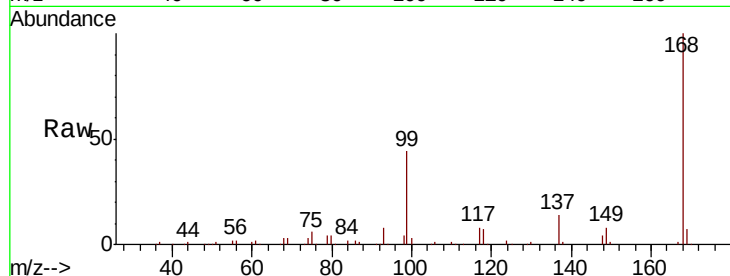
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 427198

Ion Ratio Lower Upper

168 100

99 44.1 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

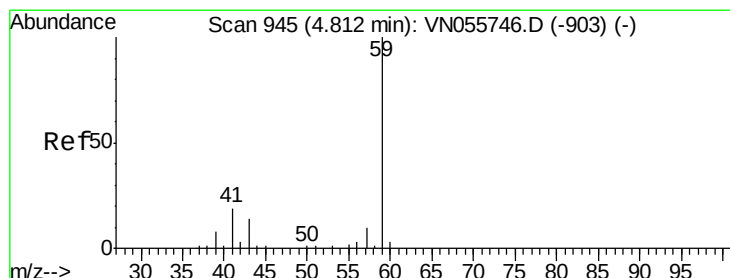
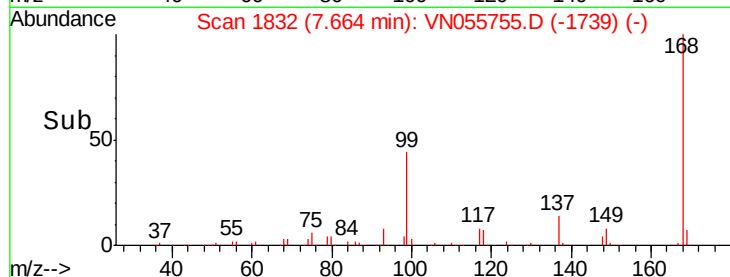
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 5.108 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055755.D

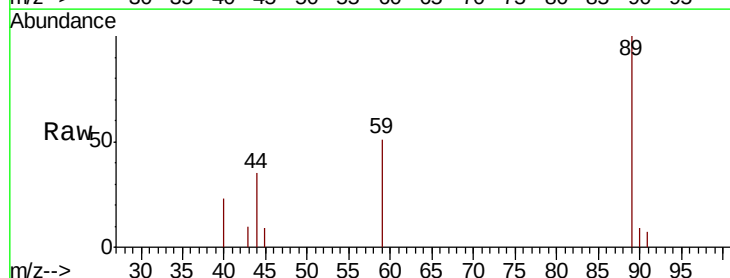
Acq: 23 May 2019 15:56

Tgt Ion: 59 Resp: 4306

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

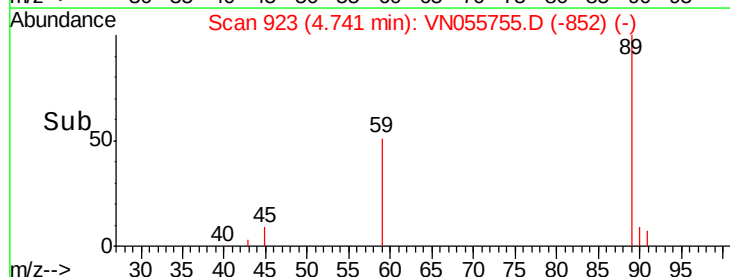
4.74

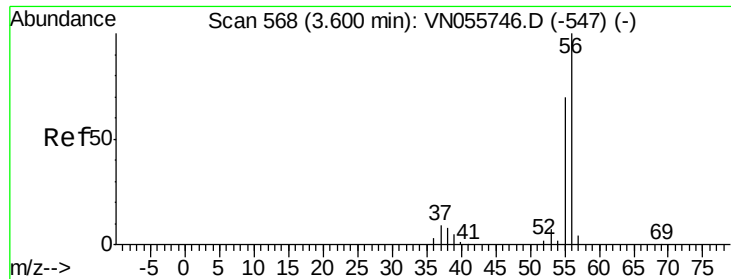
1000

500

0

Time--> 4.65 4.70 4.75 4.80





#13

Acrolein

Concen: 0.580 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN055755.D

Acq: 23 May 2019 15:56

Instrument :

MSVOA_N

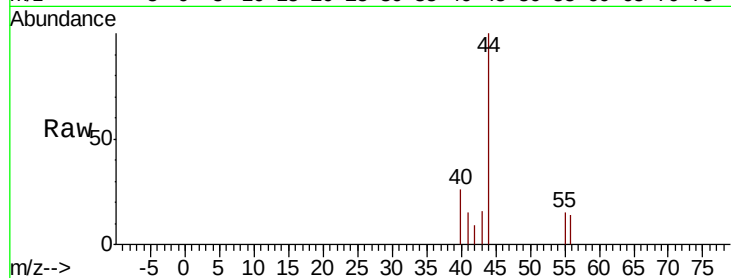
ClientSampleId :

Tot Ion: 56 Resp: 350

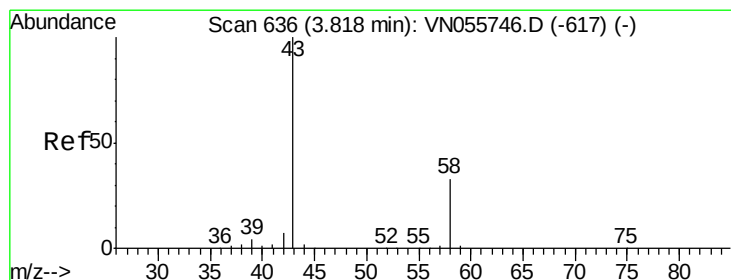
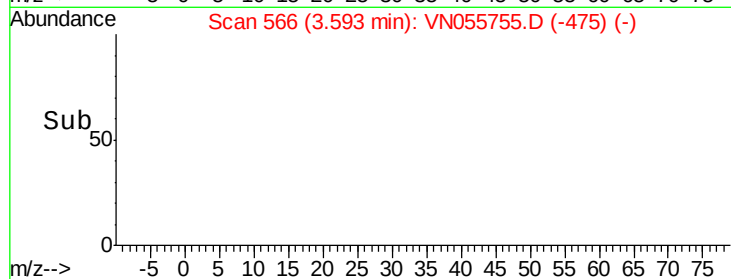
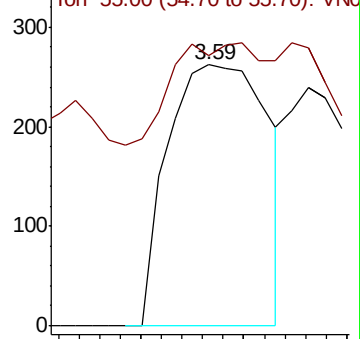
Ion Ratio Lower Upper

56 100

55 30.3 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0



#16

Acetone

Concen: 0.891 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN055755.D

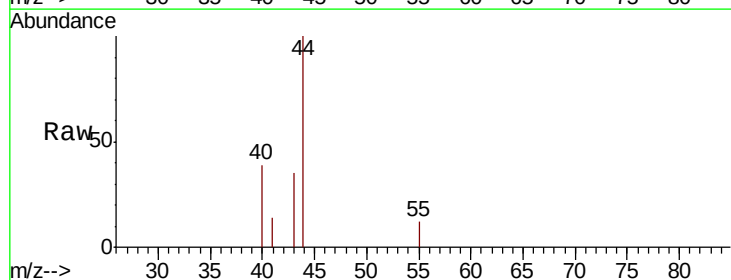
Acq: 23 May 2019 15:56

Tgt Ion: 43 Resp: 1727

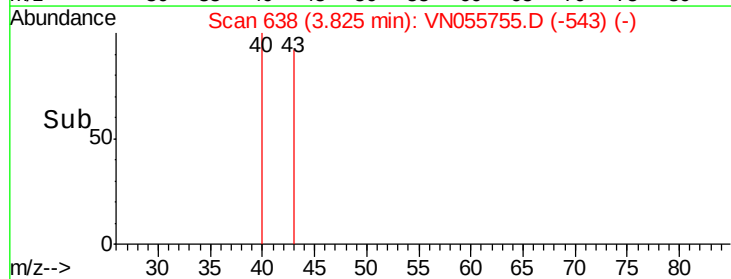
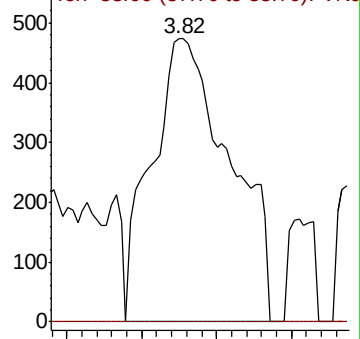
Ion Ratio Lower Upper

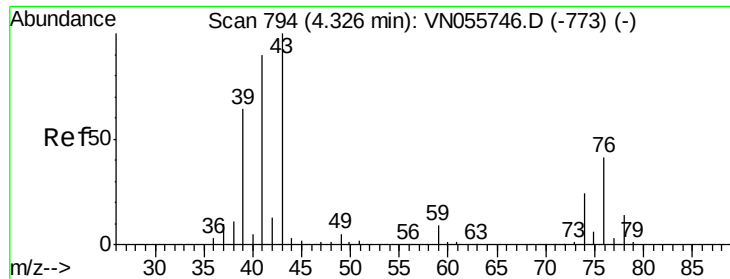
43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

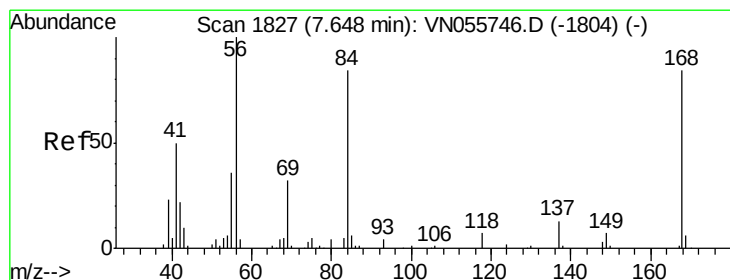
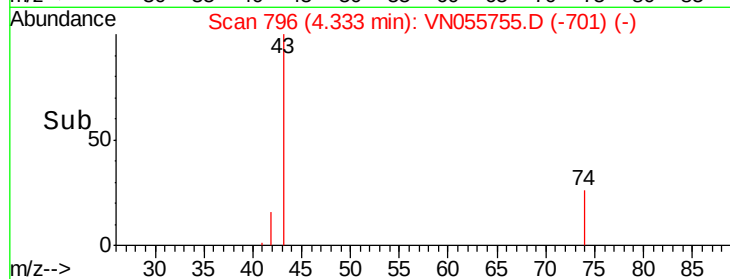
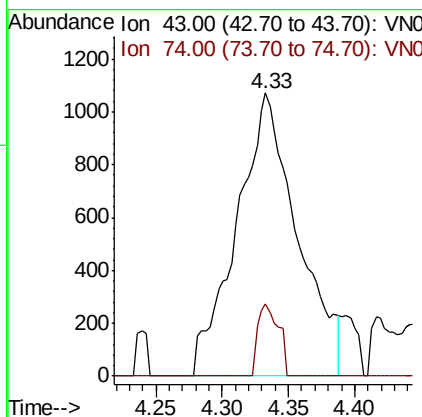
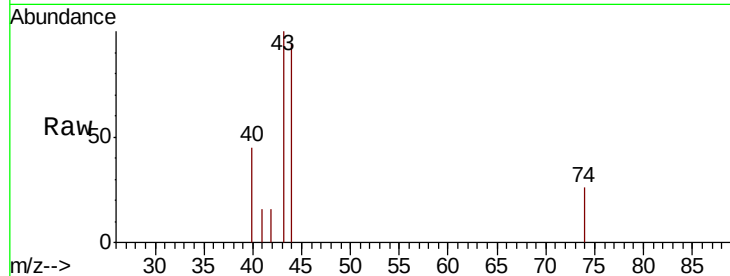




#18
Methvl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN055755.D
Acq: 23 May 2019 15:56

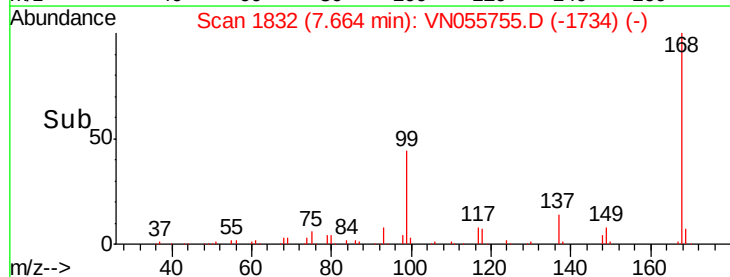
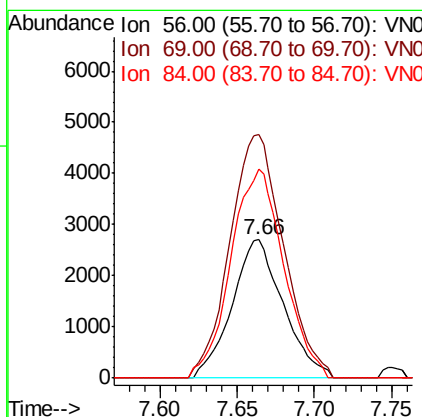
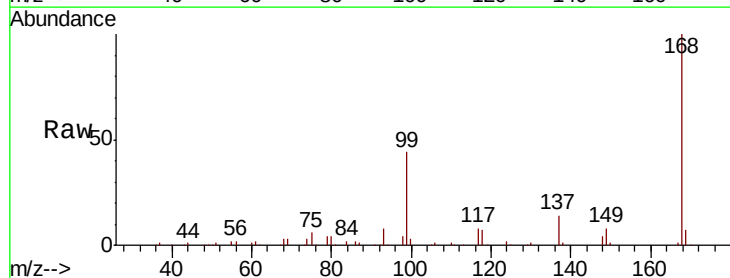
Instrument :
MSVOA_N
ClientSampleId :

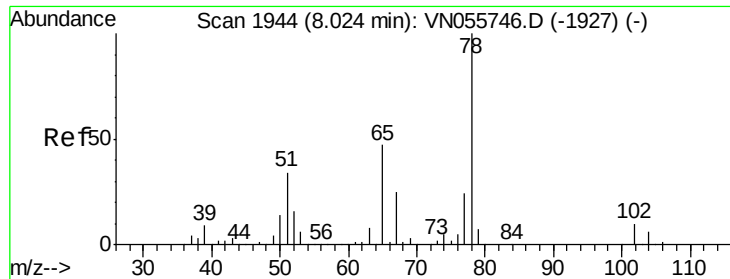
Tot Ion: 43 Resp: 3421
Ion Ratio Lower Upper
43 100
74 8.6 19.3 28.9#



#31
Cyclohexane
Concen: 0.943 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN055755.D
Acq: 23 May 2019 15:56

Tgt Ion: 56 Resp: 6244
Ion Ratio Lower Upper
56 100
69 176.4 25.6 38.4#
84 151.8 67.4 101.0#

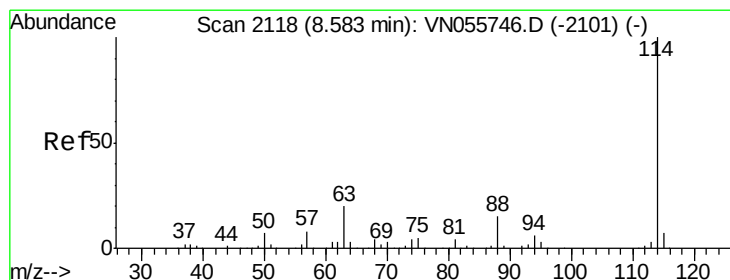
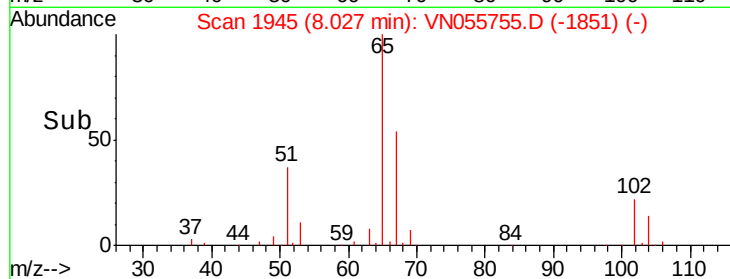
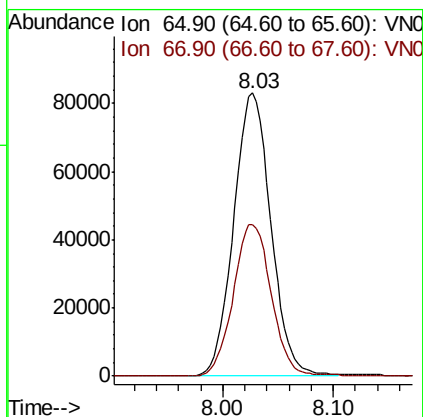
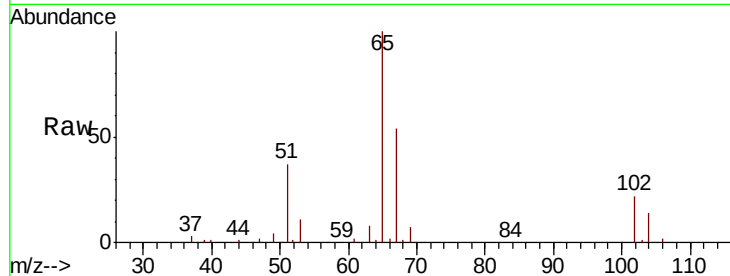




#33
 1,2-Dichloroethane-d4
 Concen: 44.076 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

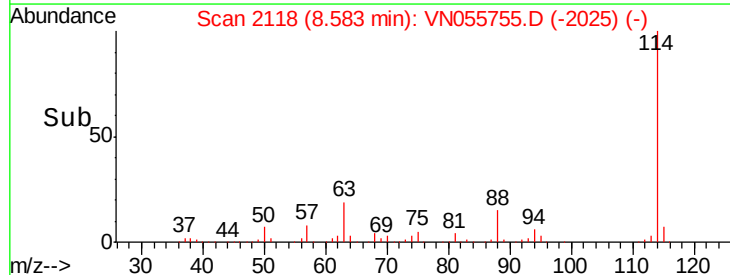
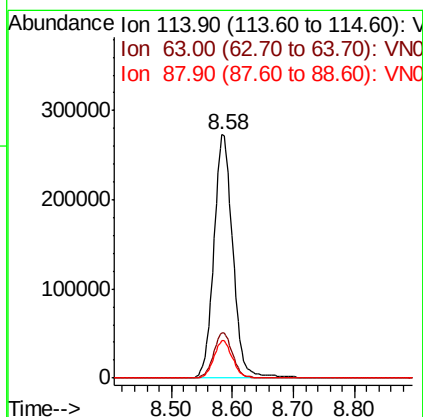
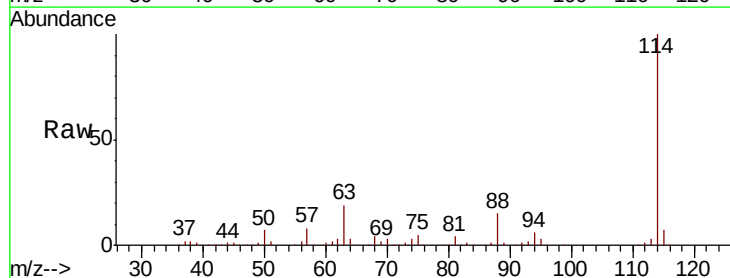
Instrument :
 MSVOA_N
 ClientSampled :

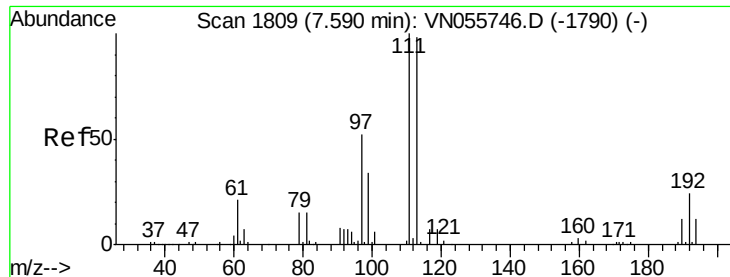
Tot Ion: 65 Resp: 194454
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

Tgt Ion:114 Resp: 591403
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 15.3 0.0 31.0

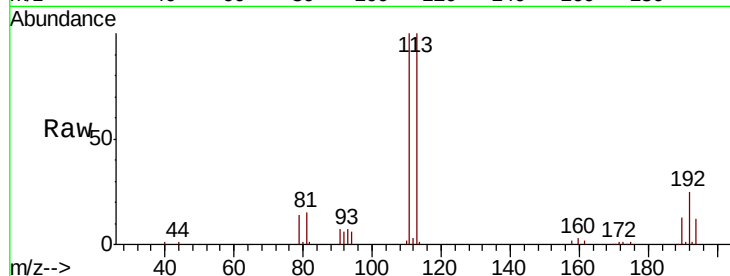




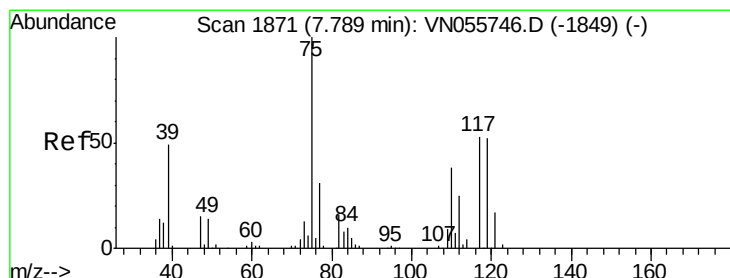
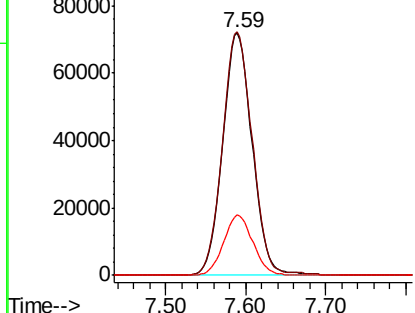
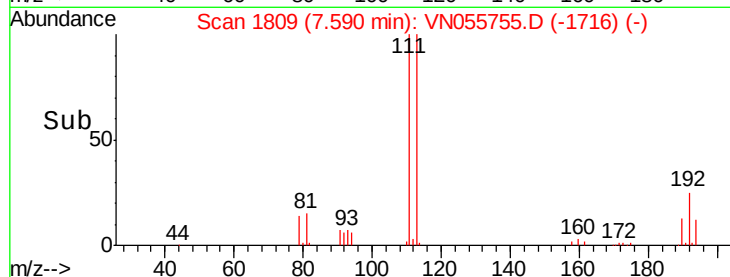
#35
 Dibromofluoromethane
 Concen: 48.418 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.9	122.9
192	24.7	19.5	29.3

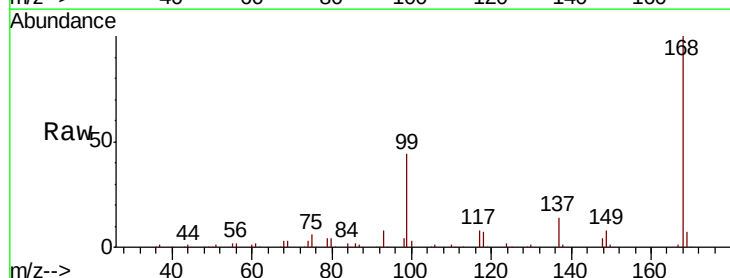


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

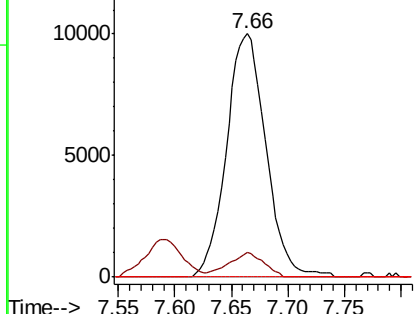
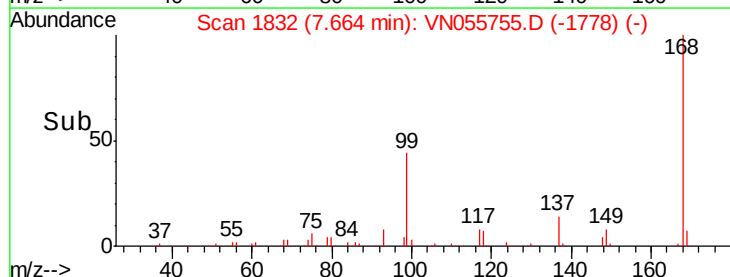


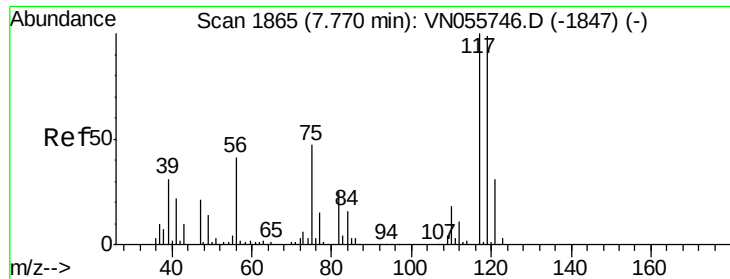
#36
 1,1-Dichloropropene
 Concen: 4.715 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	19.0	57.0#
77	0.0	25.1	37.7#



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

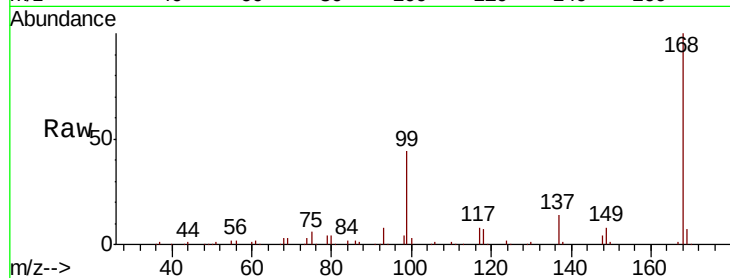




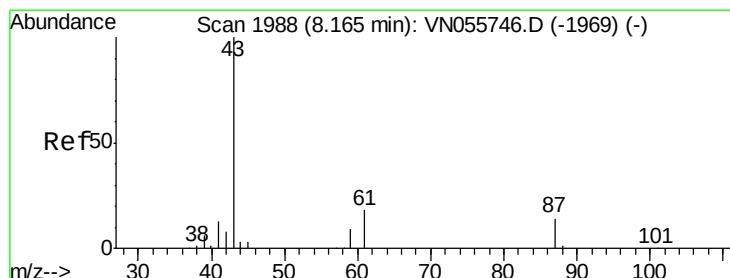
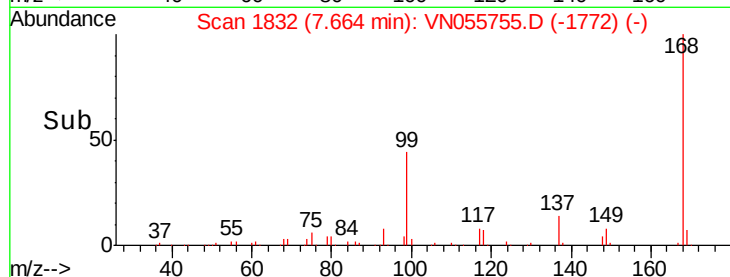
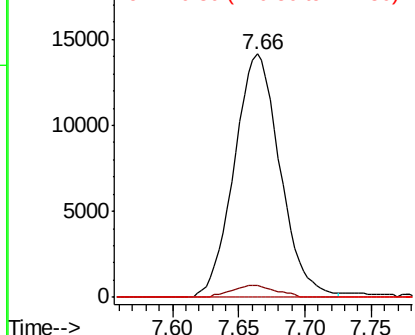
#38
Carbon Tetrachloride
Concen: 6.346 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN055755.D
Acq: 23 May 2019 15:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 34066
Ion Ratio Lower Upper
117 100
119 4.9 79.0 118.6#
121 0.0 24.7 37.1#

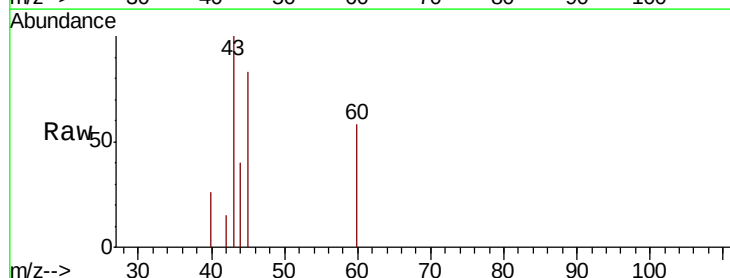


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

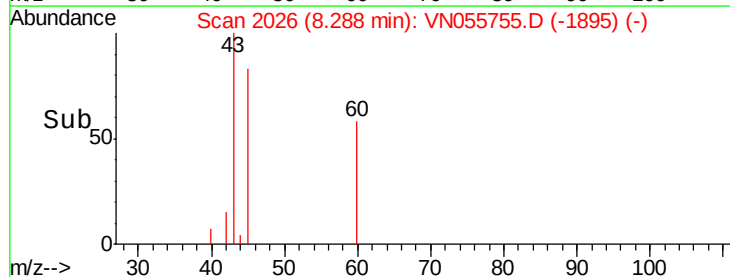
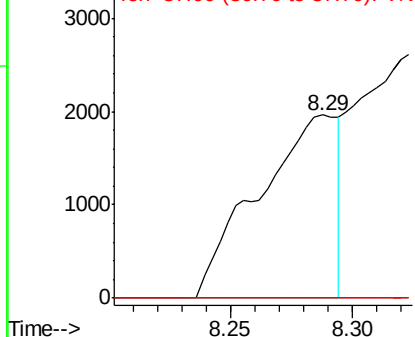


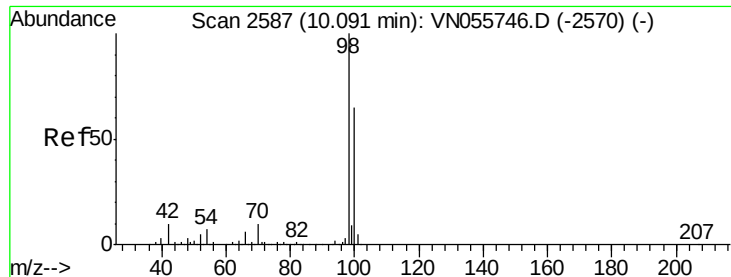
#43
Isopropyl Acetate
Concen: 0.531 ug/l
RT: 8.29 min Scan# 2026
Delta R.T. 0.12 min
Lab File: VN055755.D
Acq: 23 May 2019 15:56

Tgt Ion: 43 Resp: 4441
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 48.590 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055755.D

Acq: 23 May 2019 15:56

Instrument :

MSVOA_N

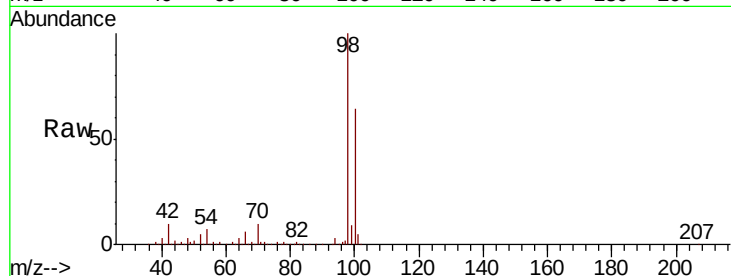
ClientSampled :

Tot Ion: 98 Resp: 696904

Ion Ratio Lower Upper

98 100

100 64.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

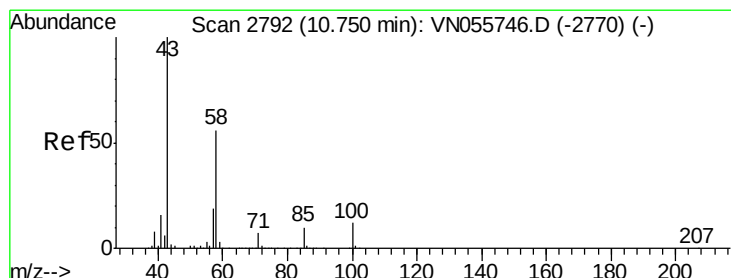
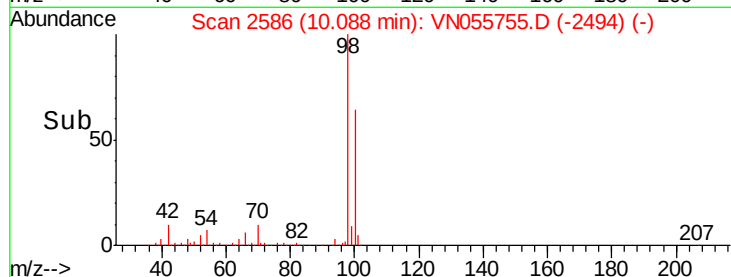
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 0.333 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN055755.D

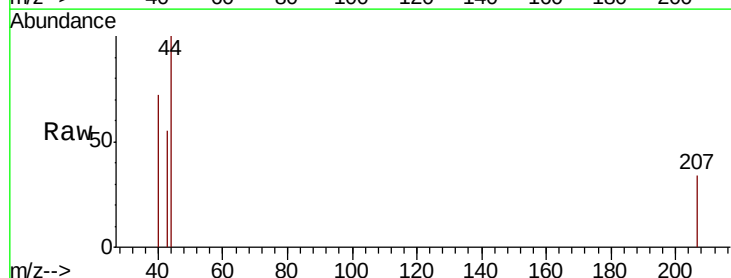
Acq: 23 May 2019 15:56

Tgt Ion: 43 Resp: 1167

Ion Ratio Lower Upper

43 100

58 0.0 28.2 84.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

400

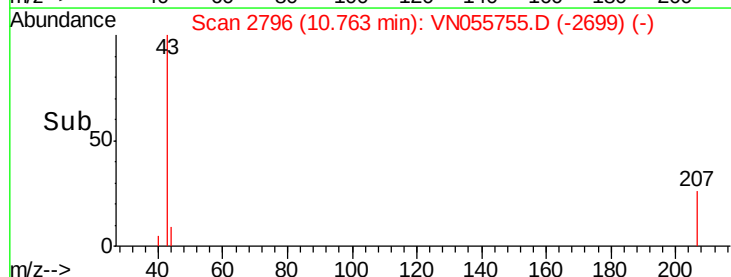
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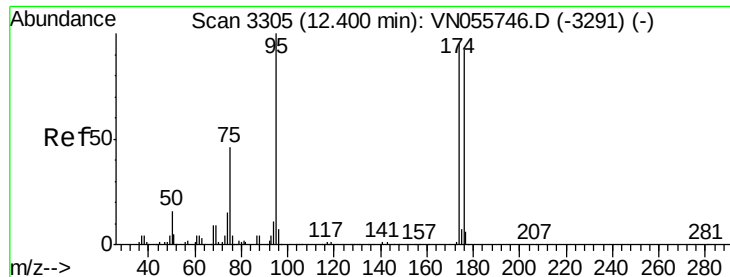
200

100

0

Time-->





#62

4-Bromofluorobenzene

Concen: 43.386 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055755.D

Acq: 23 May 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

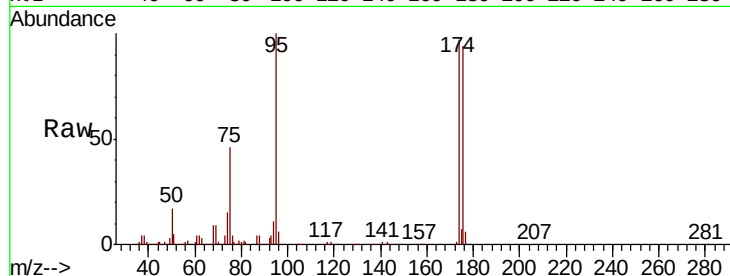
Tot Ion: 95 Resp: 213367

Ion Ratio Lower Upper

95 100

174 97.3 0.0 191.0

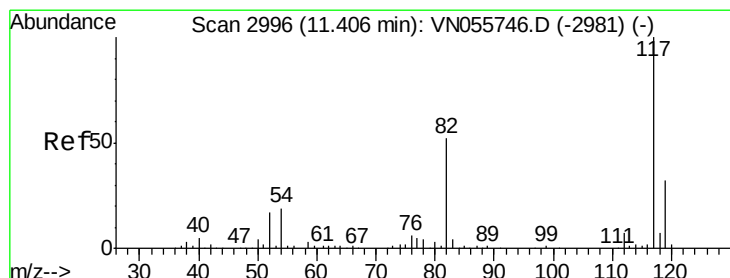
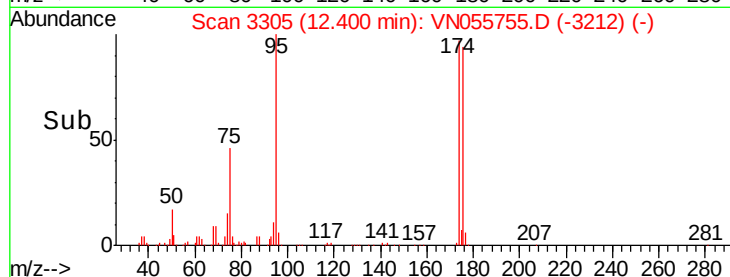
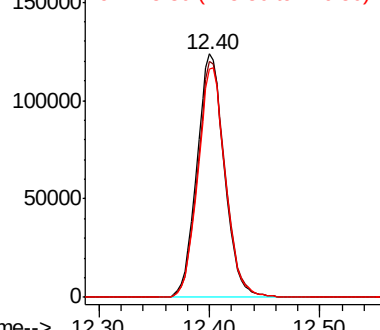
176 94.2 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055755.D

Acq: 23 May 2019 15:56

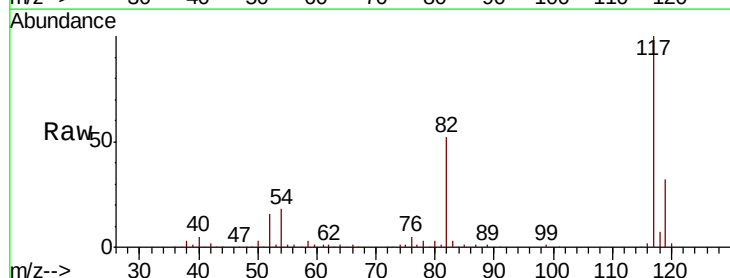
Tgt Ion: 117 Resp: 514050

Ion Ratio Lower Upper

117 100

82 51.5 41.8 62.8

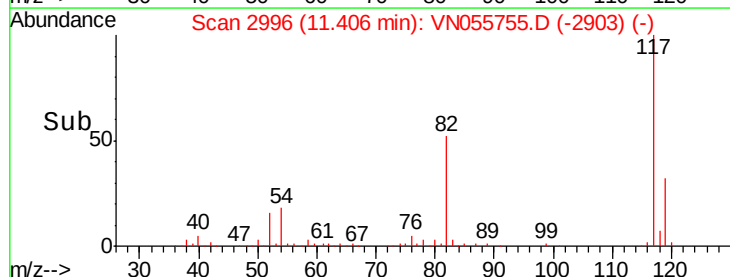
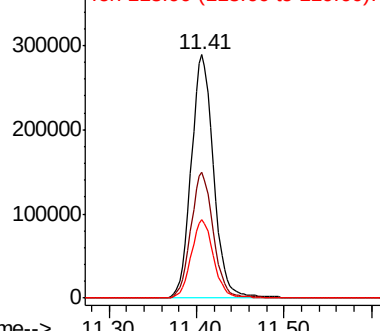
119 32.1 25.4 38.0

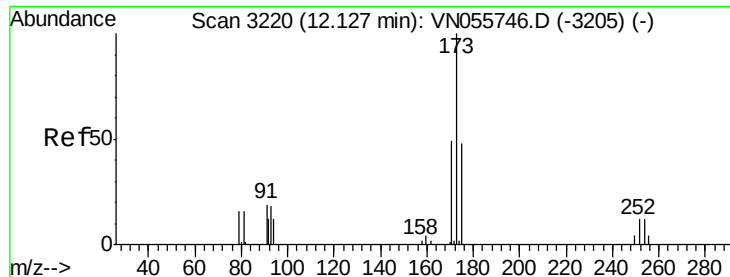


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.358 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055755.D

Acq: 23 May 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

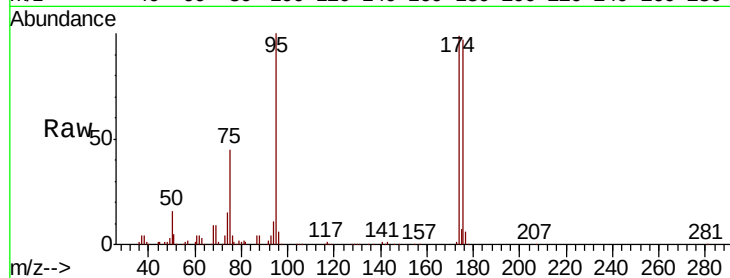
Tot Ion:173 Resp: 1253

Ion Ratio Lower Upper

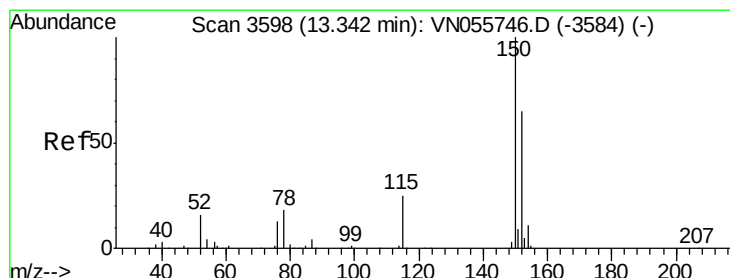
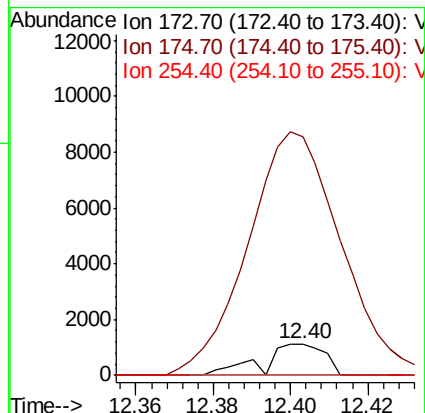
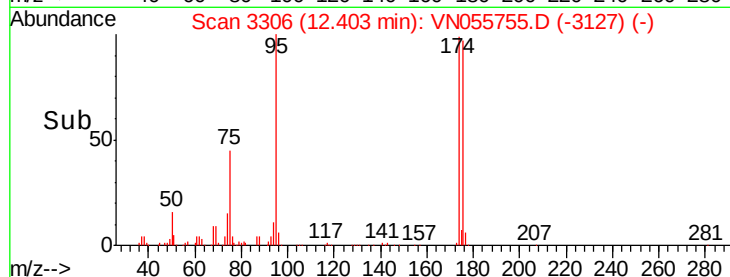
173 100

175 1019.1 24.3 72.8#

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: VN055755.D

Acq: 23 May 2019 15:56

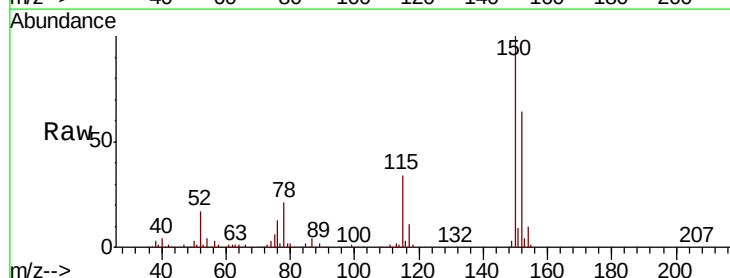
Tgt Ion:152 Resp: 172074

Ion Ratio Lower Upper

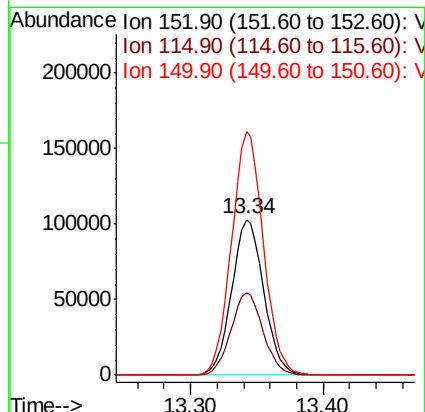
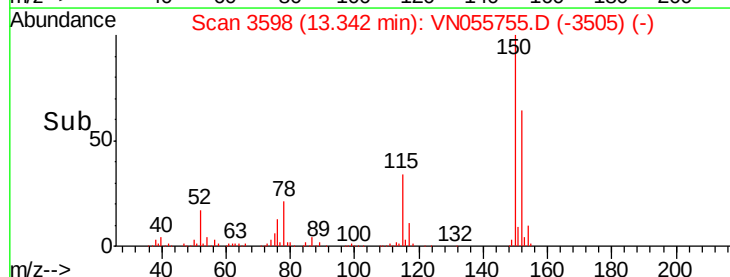
152 100

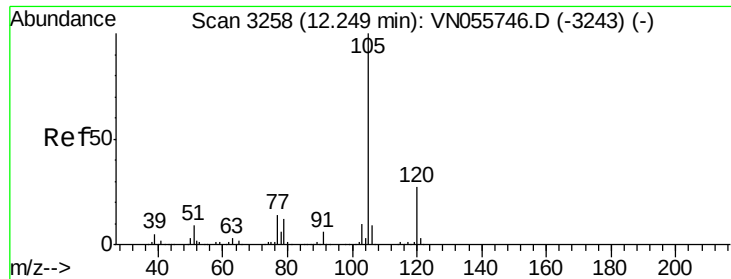
115 53.1 27.0 81.0

150 156.5 0.0 343.2



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055755.D

Acq: 23 May 2019 15:56

Instrument :

MSVOA_N

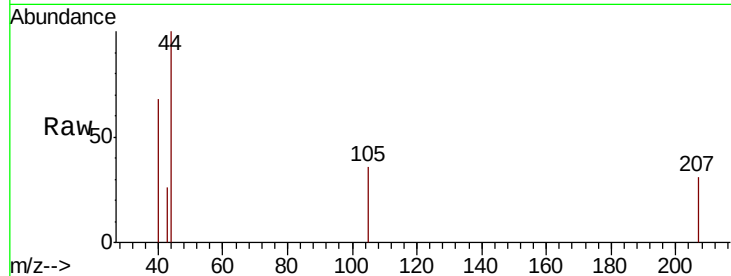
ClientSampleId :

Tot Ion: 105 Resp: 380

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

250

200

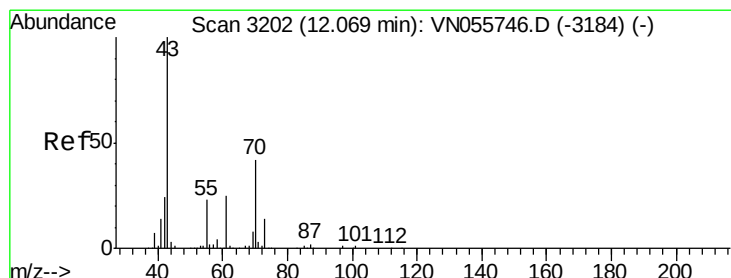
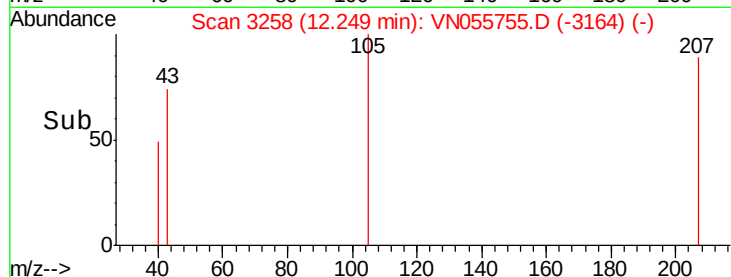
150

100

50

0

Time-->



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.06 min Scan# 3199

Delta R.T. -0.01 min

Lab File: VN055755.D

Acq: 23 May 2019 15:56

Tgt Ion: 43 Resp: 217

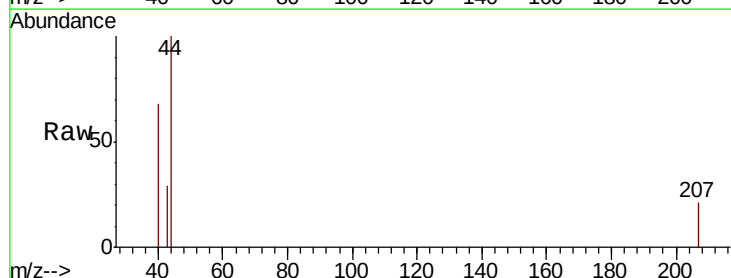
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

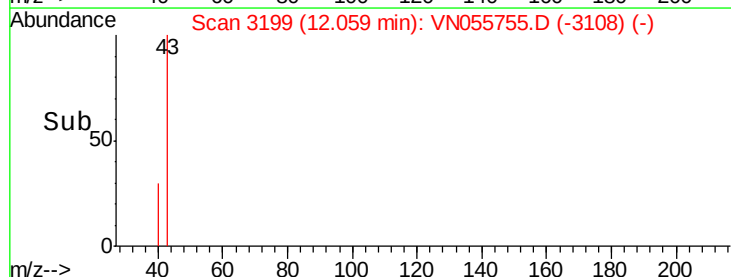
12.06

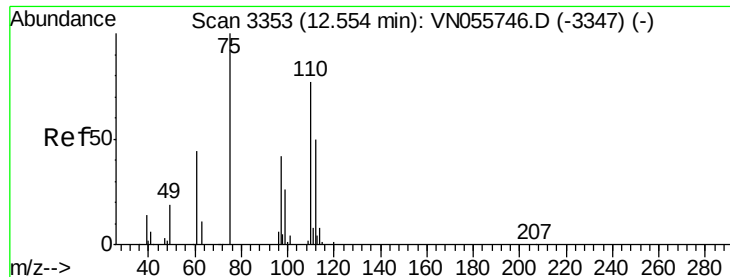
200

100

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 32.002 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055755.D

Acq: 23 May 2019 15:56

Instrument :

MSVOA_N

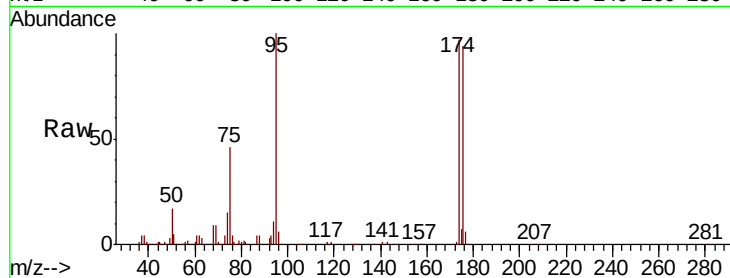
ClientSampleId :

Tot Ion: 75 Resp: 98179

Ion Ratio Lower Upper

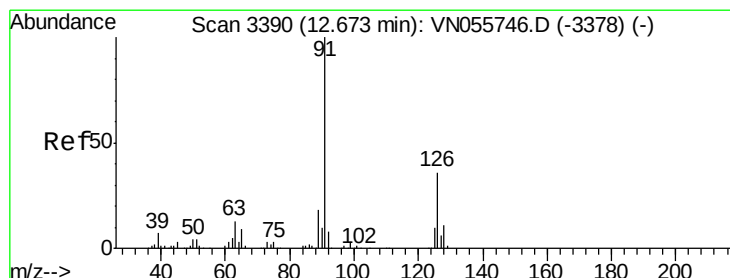
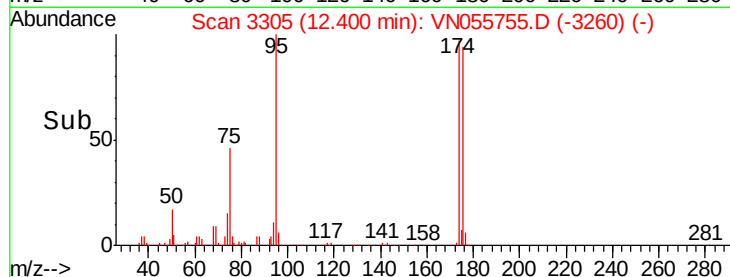
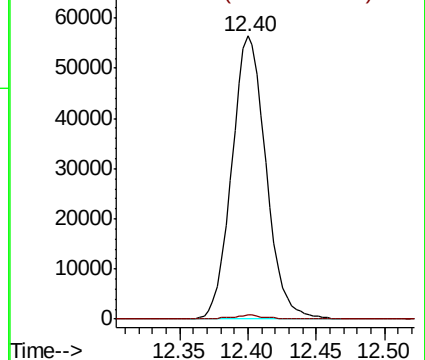
75 100

77 1.2 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: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN055755.D

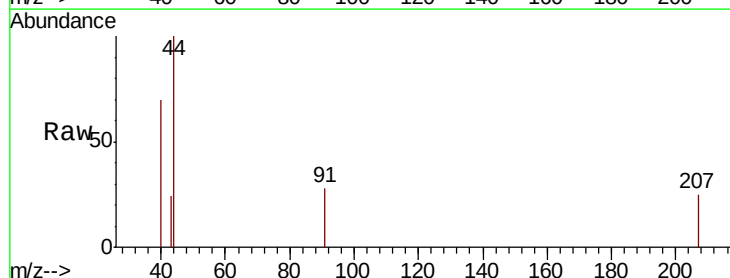
Acq: 23 May 2019 15:56

Tgt Ion: 91 Resp: 218

Ion Ratio Lower Upper

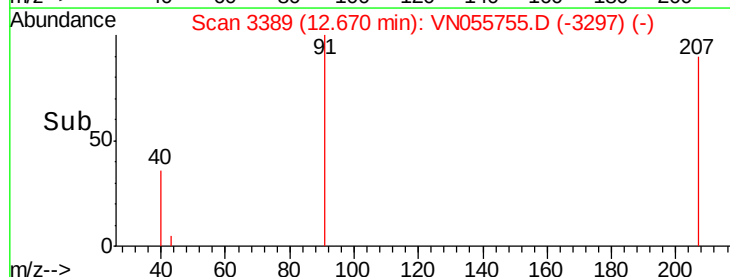
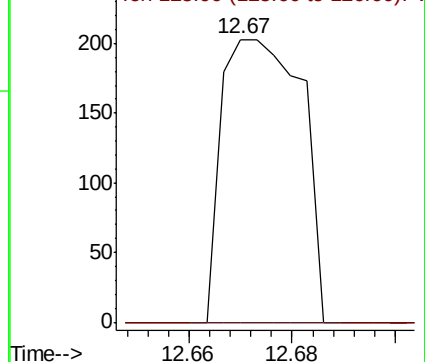
91 100

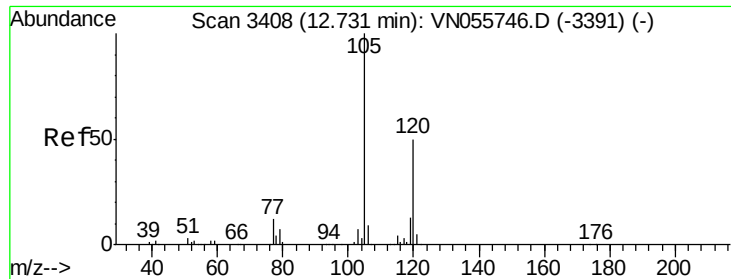
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

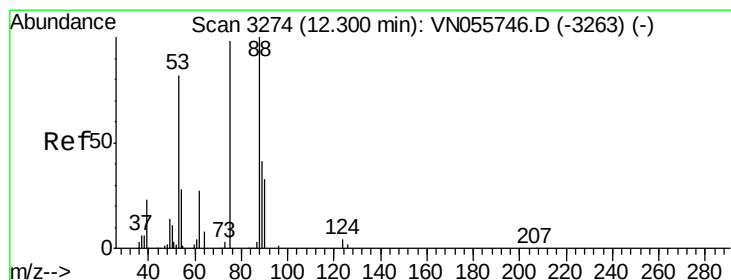
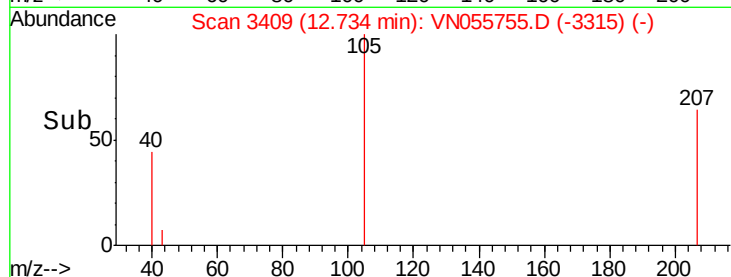
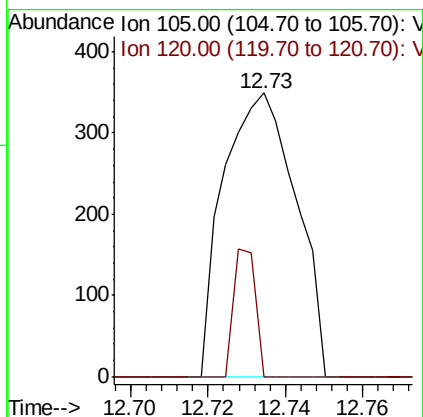
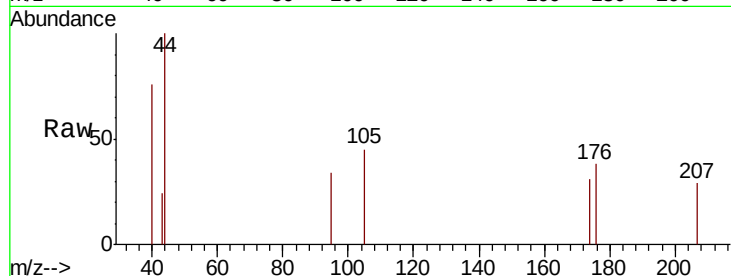




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

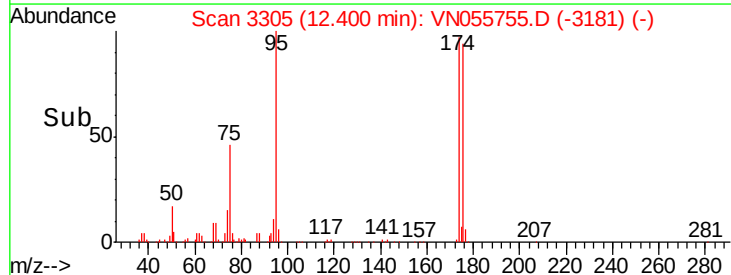
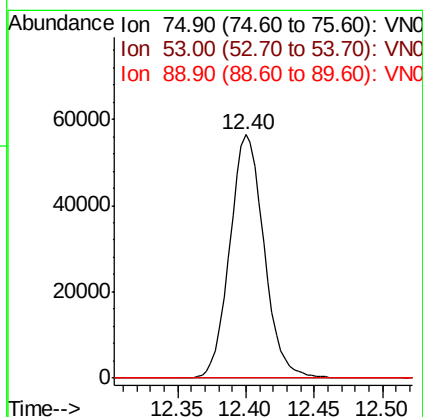
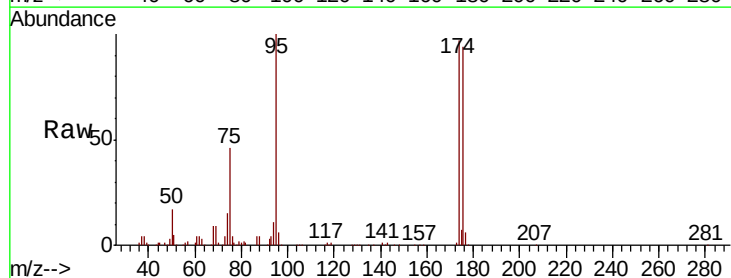
Instrument :
 MSVOA_N
 ClientSampleId :

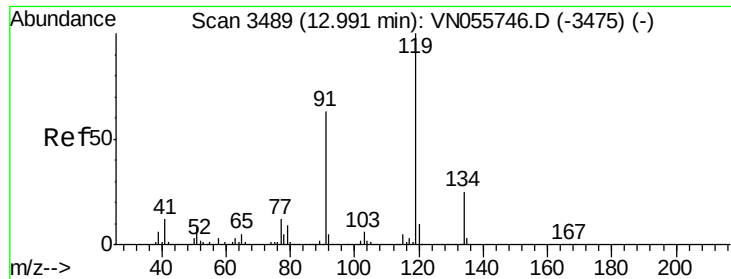
Tot Ion: 105 Resp: 455
 Ion Ratio Lower Upper
 105 100
 120 13.2 24.7 74.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.768 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

Tgt Ion: 75 Resp: 98179
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#

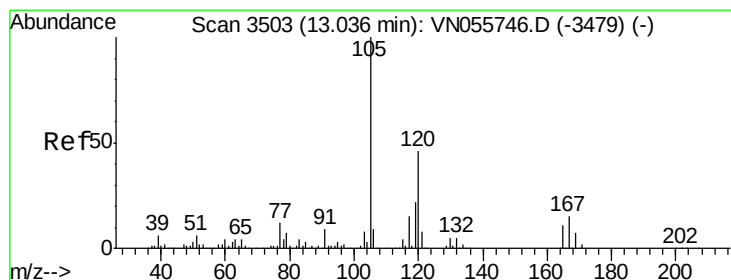
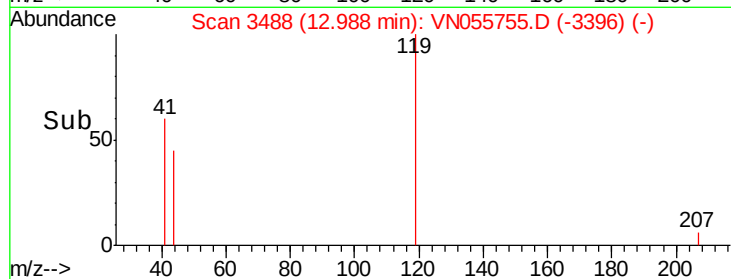
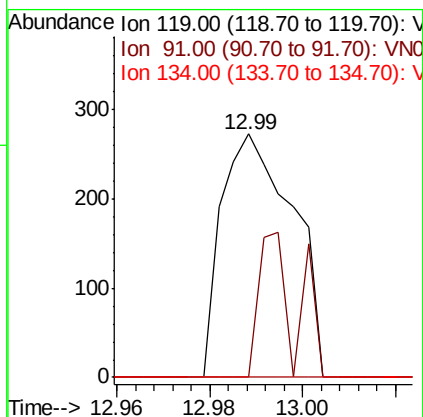
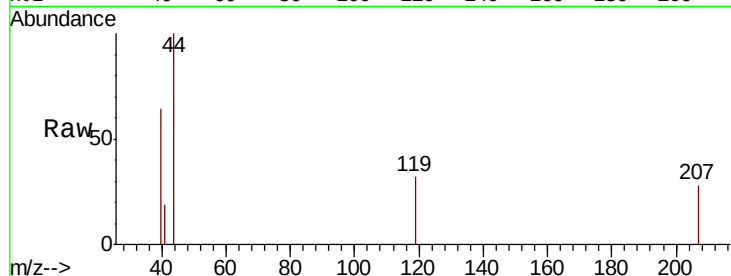




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

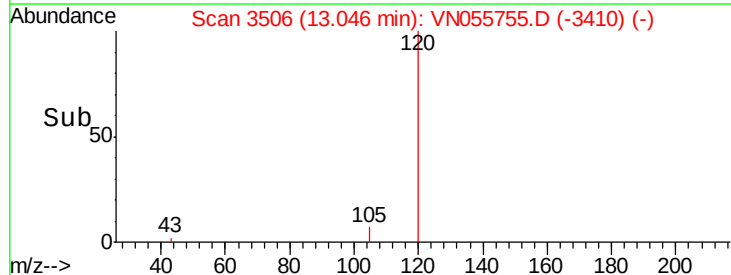
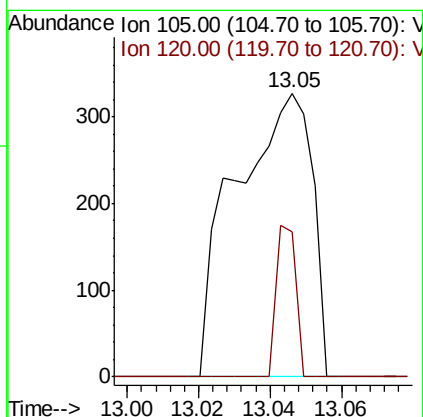
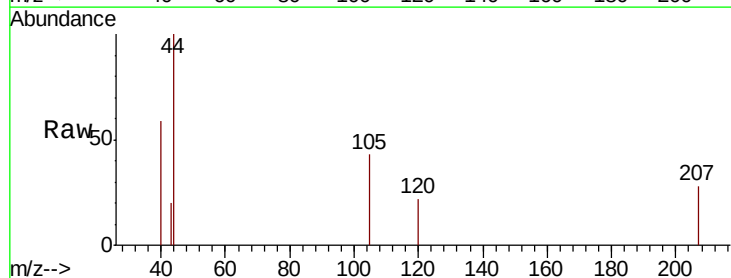
Instrument :
 MSVOA_N
 ClientSampleId :

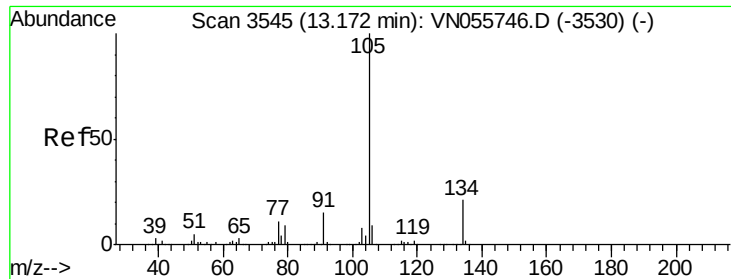
Tot Ion	Ratio	Lower	Upper
119	100		
91	31.3	30.9	92.8
134	0.0	13.3	39.8#



#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.01 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	13.6	23.0	69.0#

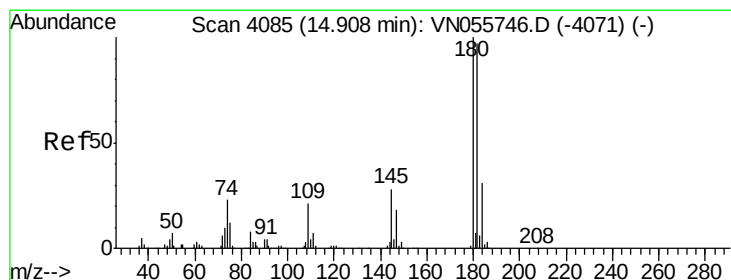
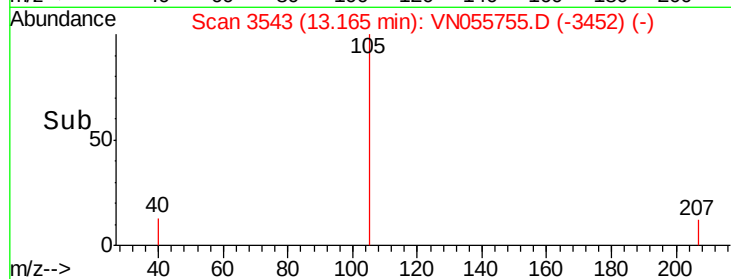
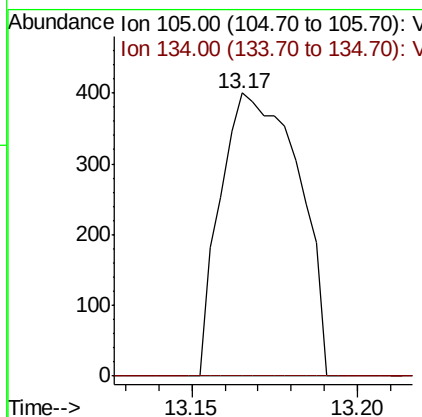
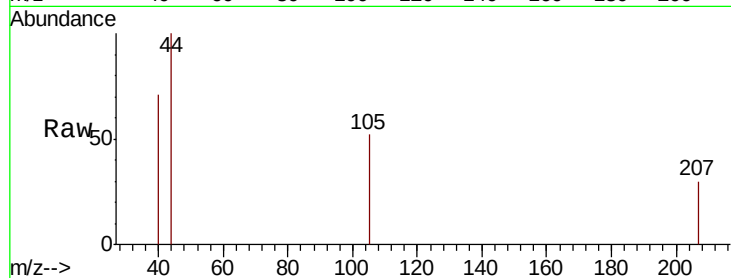




#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3543
 Delta R.T. -0.01 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

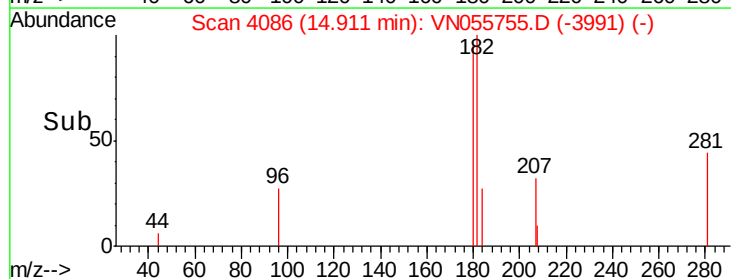
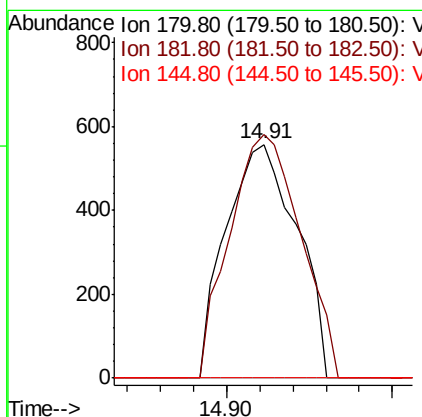
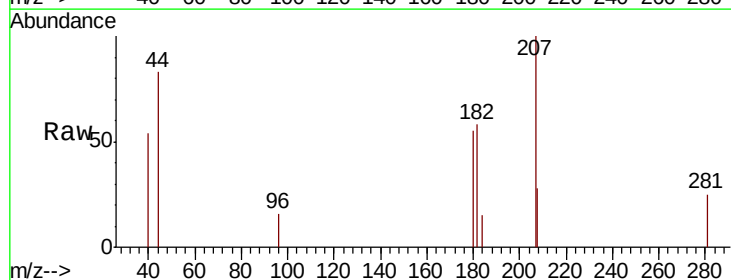
Instrument :
 MSVOA_N
 ClientSampled :

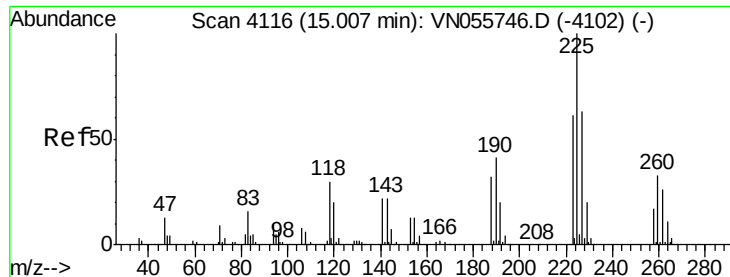
Tot Ion:105 Resp: 655
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.868 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

Tgt Ion:180 Resp: 832
 Ion Ratio Lower Upper
 180 100
 182 104.3 48.3 144.9
 145 0.0 14.0 41.9#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

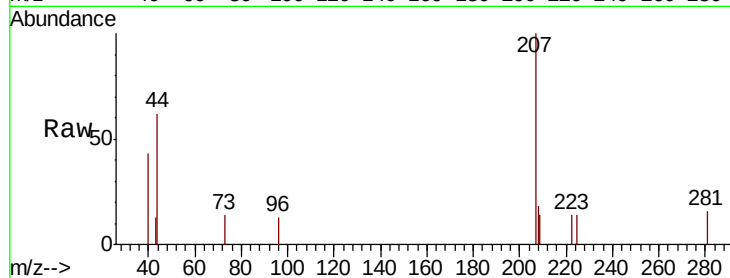
Delta R.T. 0.00 min

Lab File: VN055755.D

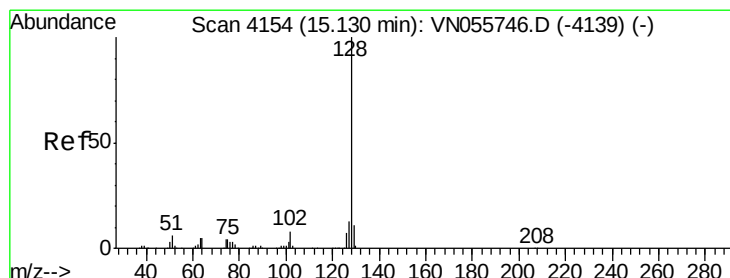
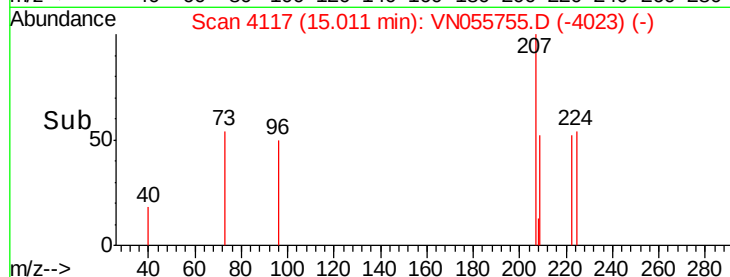
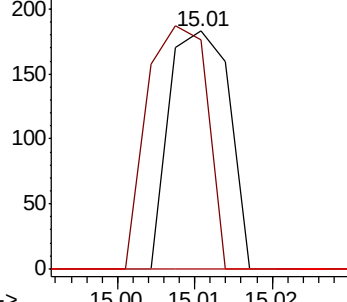
Acq: 23 May 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	225	Resp:	99
Ion	Ratio	Lower	Upper
225	100		
223	101.0	30.9	92.7#
227	0.0	31.6	94.7#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.214 ug/l

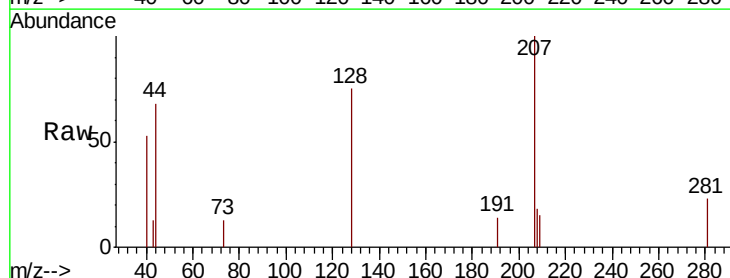
RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

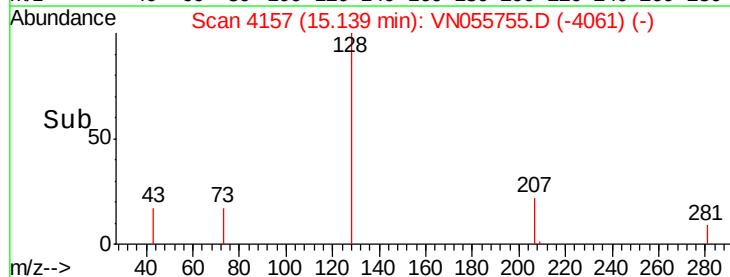
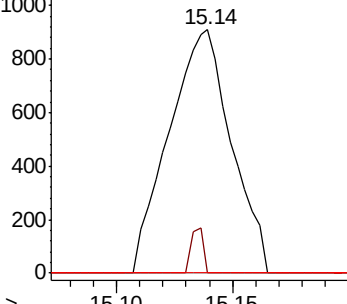
Lab File: VN055755.D

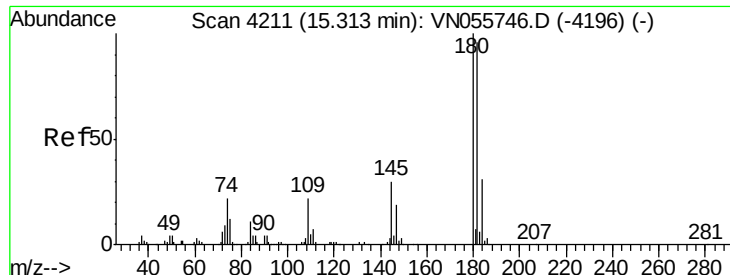
Acq: 23 May 2019 15:56

Tgt Ion:	128	Resp:	1703
Ion	Ratio	Lower	Upper
128	100		
127	3.6	10.3	15.5#
129	0.0	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: 0.274 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN055755.D
 Acq: 23 May 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 840
 Ion Ratio Lower Upper
 180 100
 182 109.3 47.9 143.7
 145 11.4 14.9 44.7#

