

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054891.D
 Acq On : 2 Apr 2019 10:34
 Operator : JC/SP
 Sample : VN0402MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 05:03:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	471473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	753466	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	646128	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	198663	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	305110	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
35) Dibromofluoromethane	7.59	113	246619	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	10.09	98	925878	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.40	95	272088	43.81	ug/l	0.00
Spiked Amount			Recovery	=	87.62%	

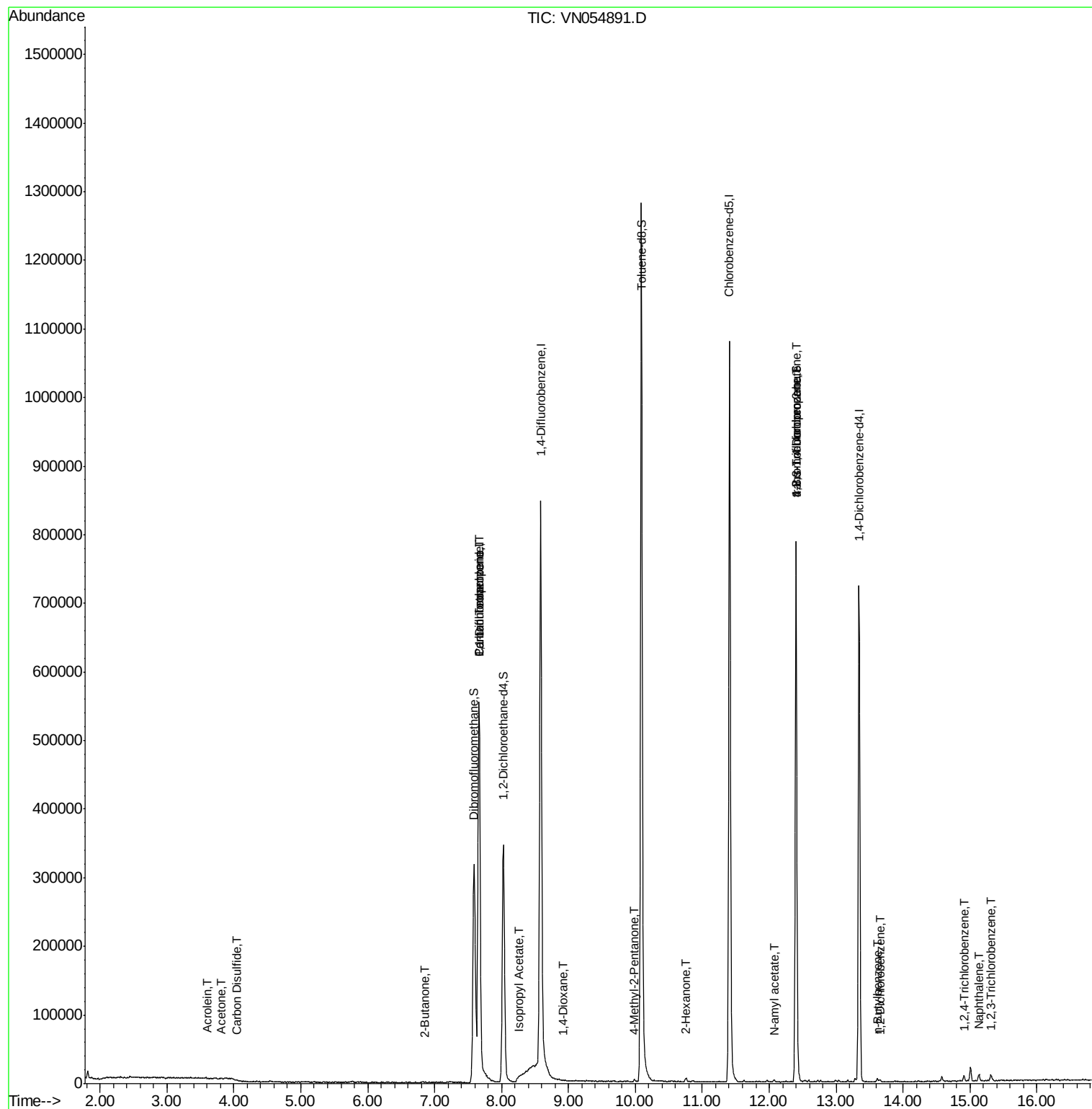
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	324	Below Cal	#	2
13) Acrolein	3.61	56	209	0.706	ug/l #	73
16) Acetone	3.80	43	367	0.242	ug/l #	38
17) Carbon Disulfide	4.04	76	2857	0.238	ug/l #	74
18) Methyl Acetate	4.32	43	345	Below Cal	#	49
25) 2-Butanone	6.85	43	575	0.257	ug/l #	46
31) Cyclohexane	7.67	56	10494	Below Cal	#	32
36) 1,1-Dichloropropene	7.66	75	36851	5.249	ug/l #	44
38) Carbon Tetrachloride	7.66	117	44503	6.526	ug/l #	16
43) Isopropyl Acetate	8.26	43	6191	0.740	ug/l #	60
49) 1,4-Dioxane	8.92	88	30	0.667	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	2335	0.496	ug/l	93
59) 2-Hexanone	10.76	43	3967	1.318	ug/l	92
74) N-amyl acetate	12.08	43	2268	0.448	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.51	83	166	Below Cal	#	60
76) 1,2,3-Trichloropropane	12.40	75	139728	40.486	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	139728	157.482	ug/l #	11
83) tert-Butylbenzene	13.00	119	1423	Below Cal	#	30
89) n-Butylbenzene	13.61	91	3193	0.307	ug/l	89
91) 1,2-Dichlorobenzene	13.65	146	1618	0.244	ug/l	94
93) 1,2,4-Trichlorobenzene	14.91	180	2519	0.789	ug/l	96
94) Hexachlorobutadiene	15.01	225	3802	Below Cal		93
95) Naphthalene	15.13	128	8297	1.159	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.31	180	2915	0.904	ug/l	93

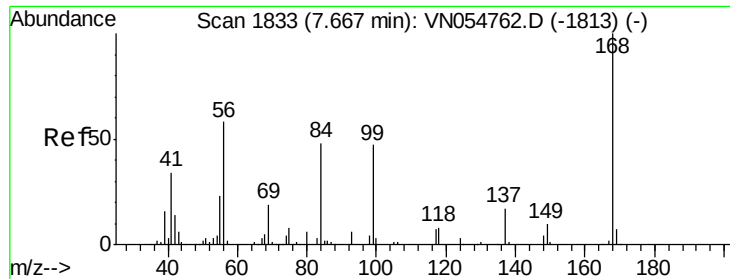
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Apr 03 05:03:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

Instrument :

MSVOA_N

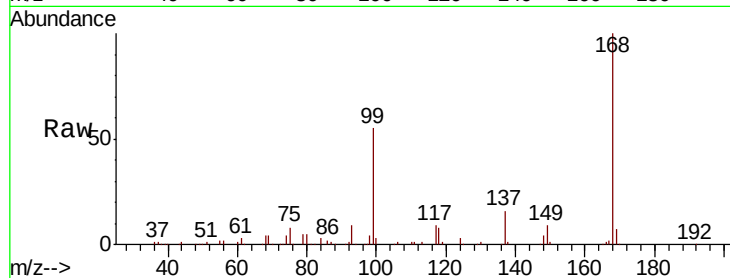
ClientSampled :

Tot Ion:168 Resp: 471473

Ion Ratio Lower Upper

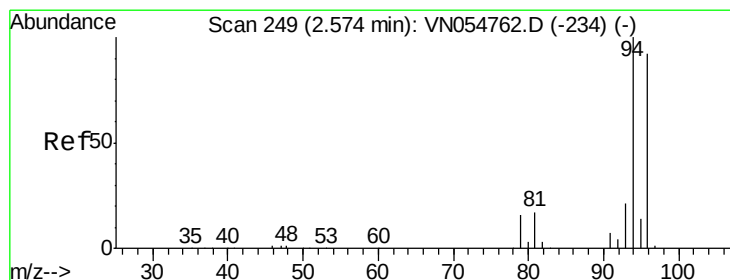
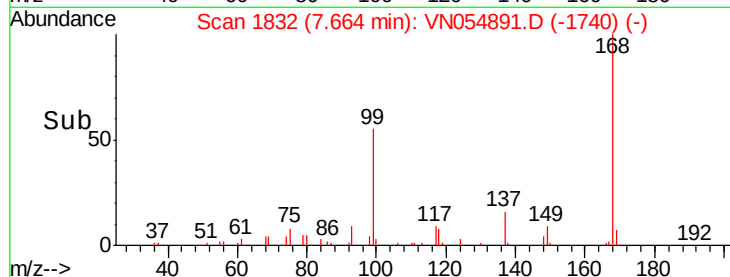
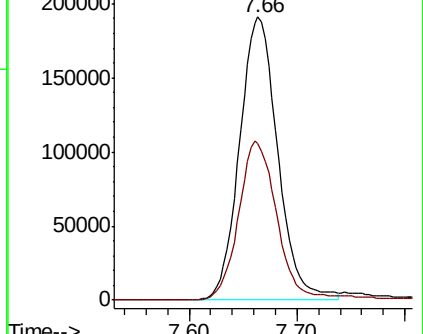
168 100

99 55.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 246

Delta R.T. -0.01 min

Lab File: VN054891.D

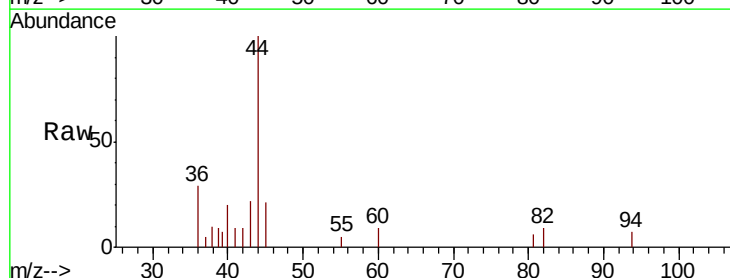
Acq: 2 Apr 2019 10:34

Tgt Ion: 94 Resp: 324

Ion Ratio Lower Upper

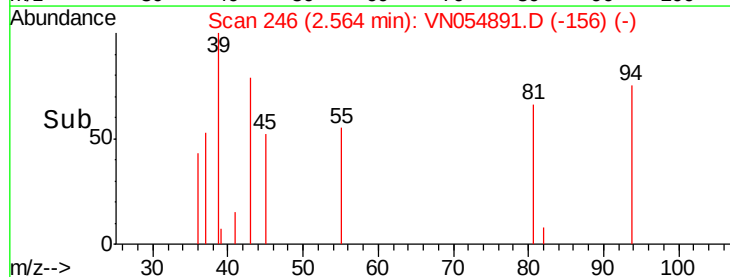
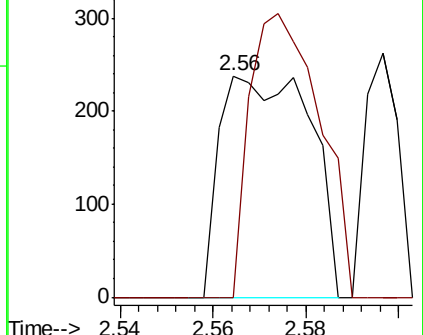
94 100

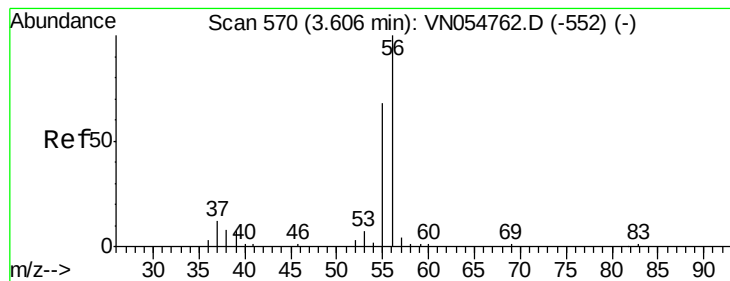
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#13

Acrolein

Concen: 0.706 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

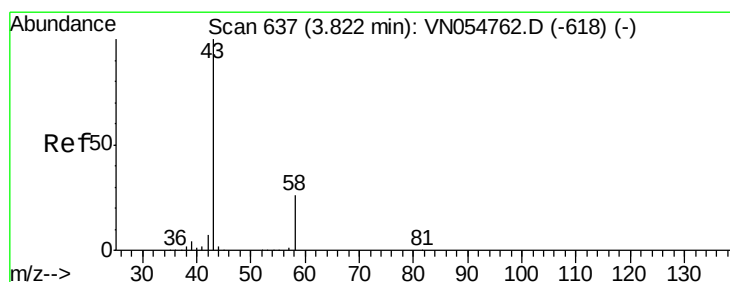
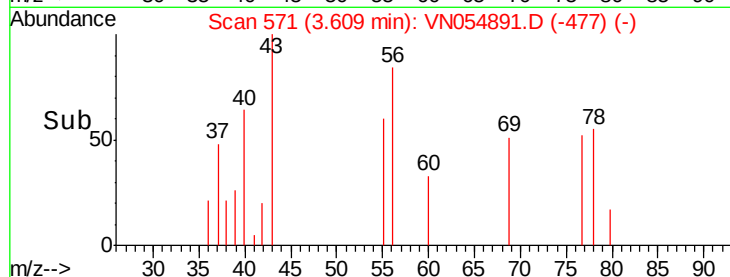
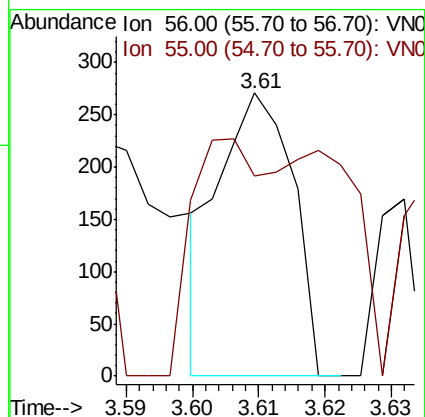
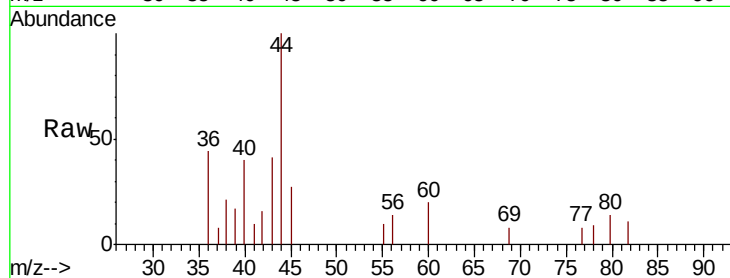
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 209

Ion Ratio Lower Upper

56 100

55 93.3 56.7 85.1#



#16

Acetone

Concen: 0.242 ug/l

RT: 3.80 min Scan# 631

Delta R.T. -0.02 min

Lab File: VN054891.D

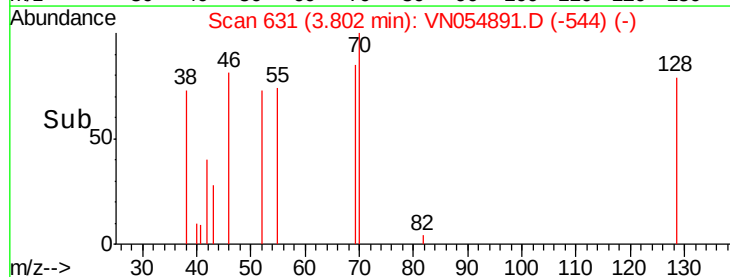
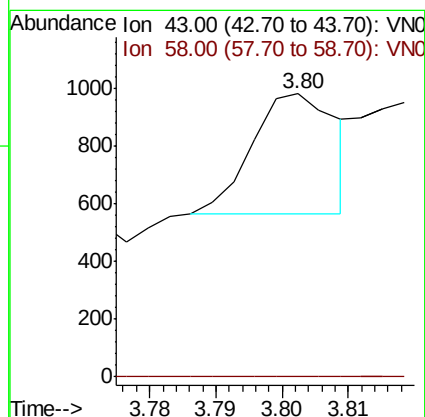
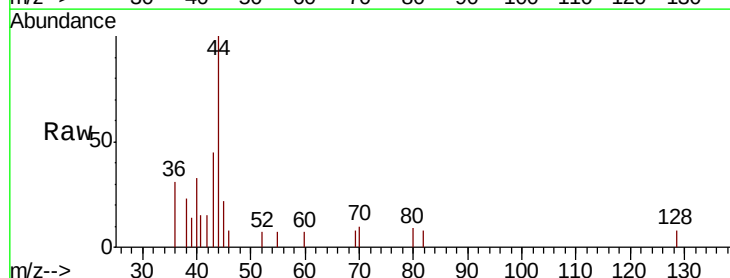
Acq: 2 Apr 2019 10:34

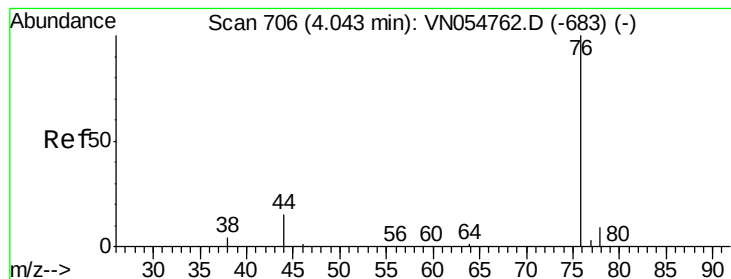
Tgt Ion: 43 Resp: 367

Ion Ratio Lower Upper

43 100

58 0.0 29.9 44.9#





#17

Carbon Disulfide

Concen: 0.238 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

Instrument :

MSVOA_N

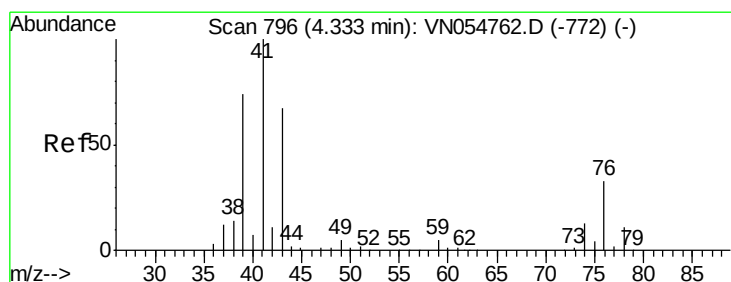
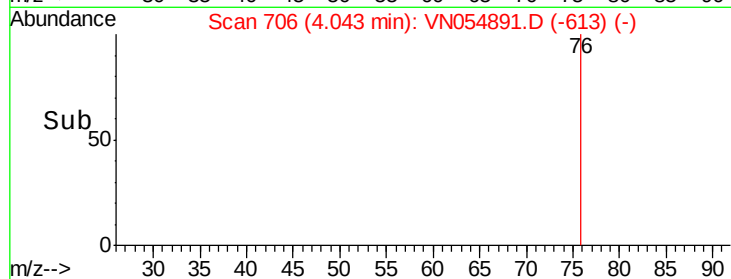
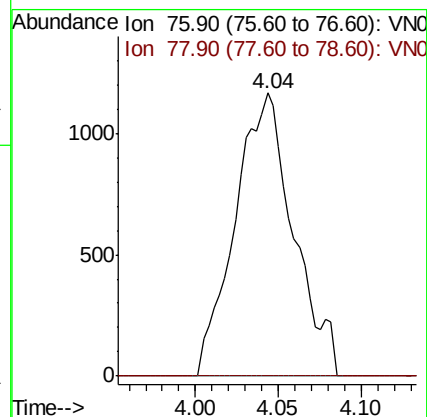
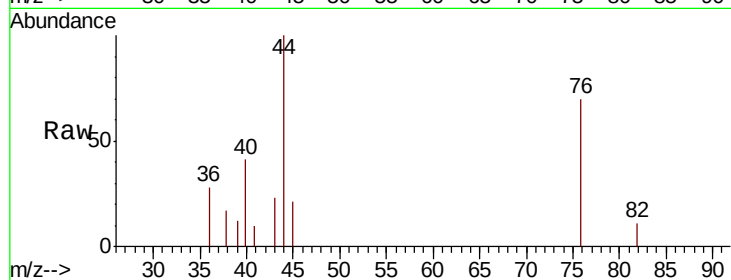
ClientSampled :

Tot Ion: 76 Resp: 2857

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 793

Delta R.T. -0.01 min

Lab File: VN054891.D

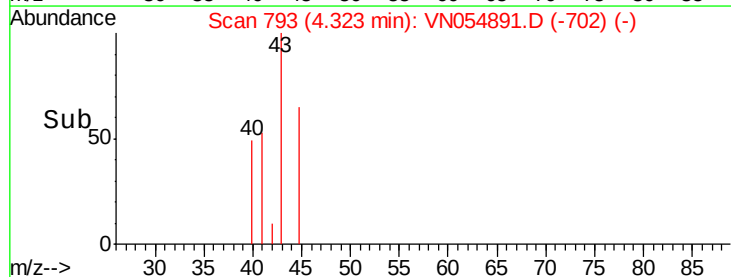
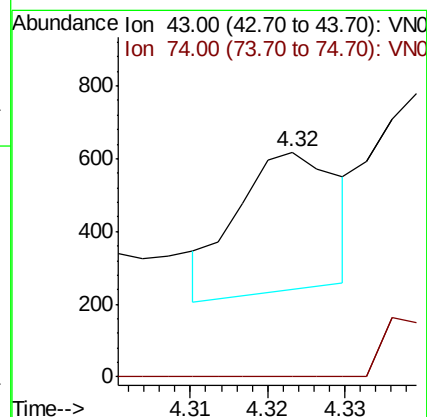
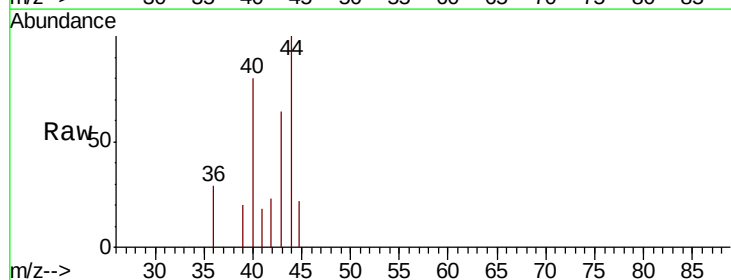
Acq: 2 Apr 2019 10:34

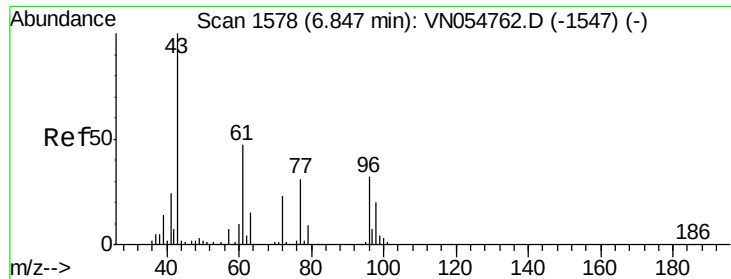
Tgt Ion: 43 Resp: 345

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#

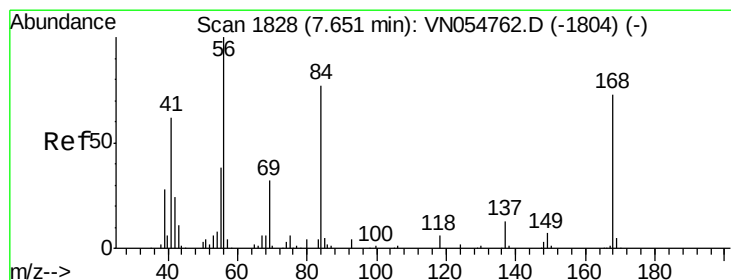
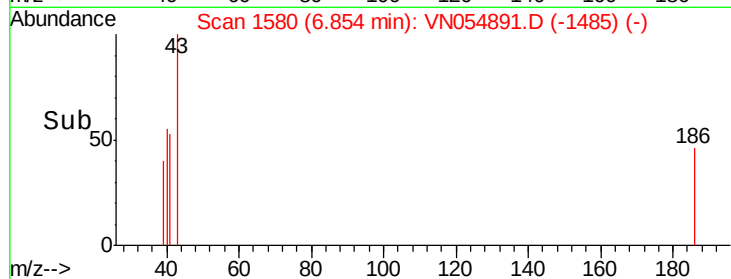
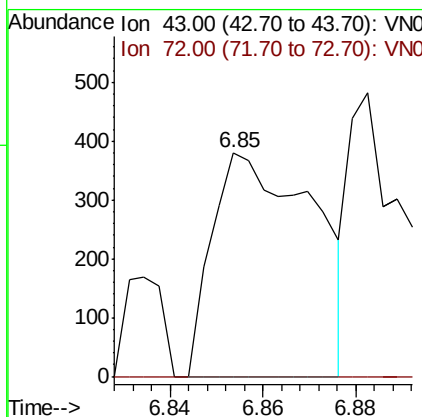
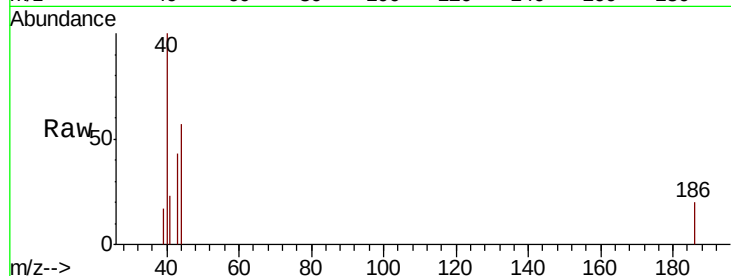




#25
2-Butanone
Concen: 0.257 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

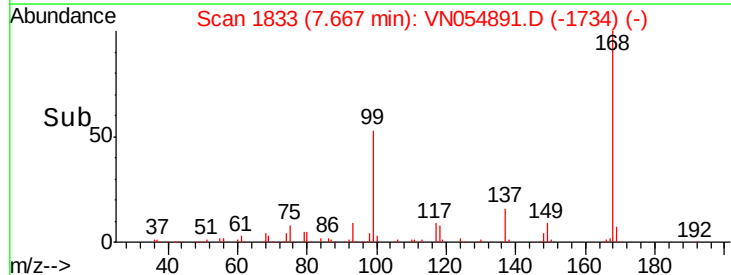
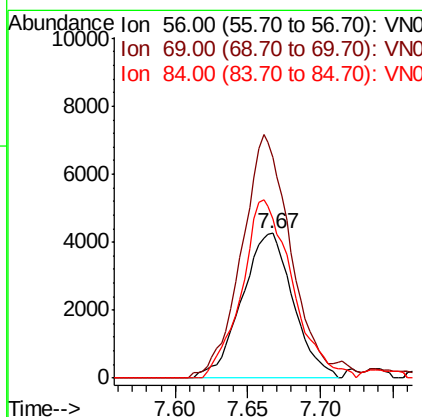
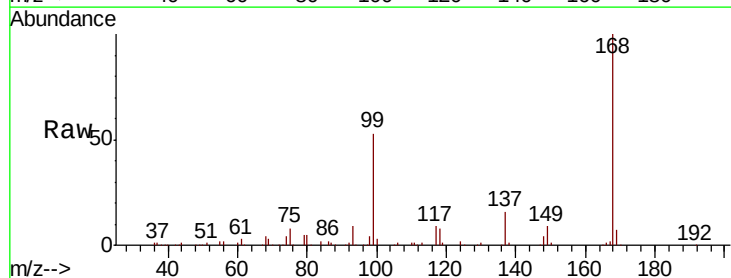
Instrument :
MSVOA_N
ClientSampleId :

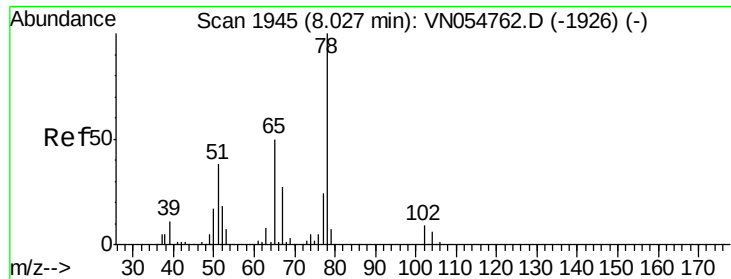
Tot Ion: 43 Resp: 575
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

Tgt Ion: 56 Resp: 10494
Ion Ratio Lower Upper
56 100
69 151.9 27.8 41.6#
84 109.8 74.6 111.8

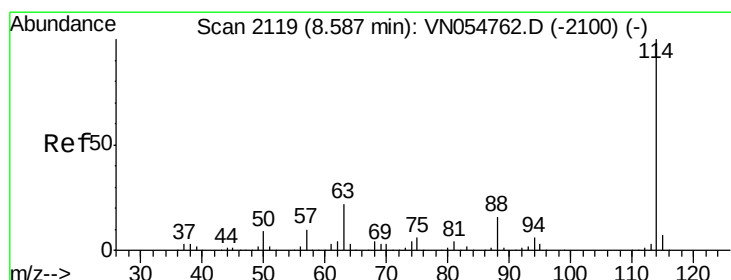
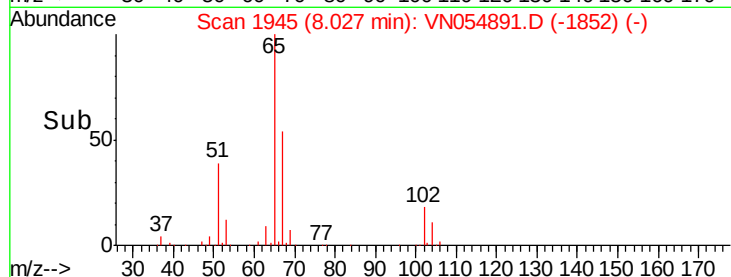
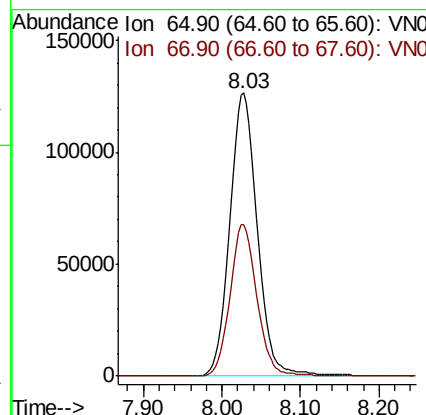
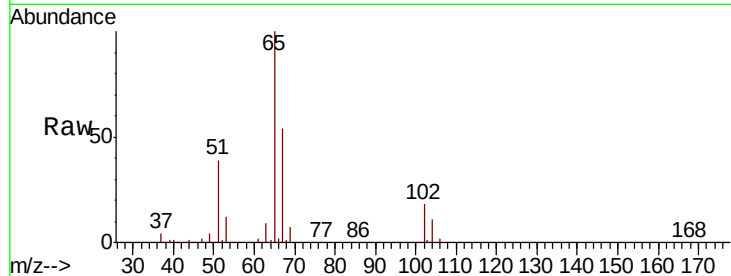




#33
 1,2-Dichloroethane-d4
 Concen: 48.007 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054891.D
 Acq: 2 Apr 2019 10:34

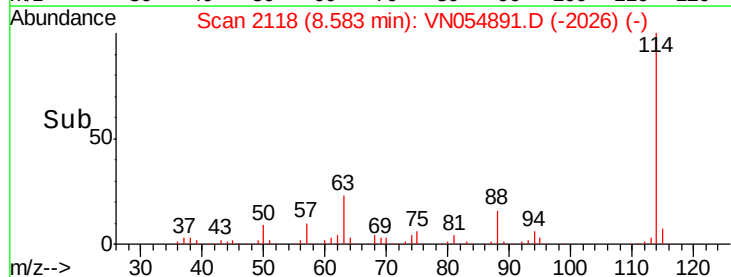
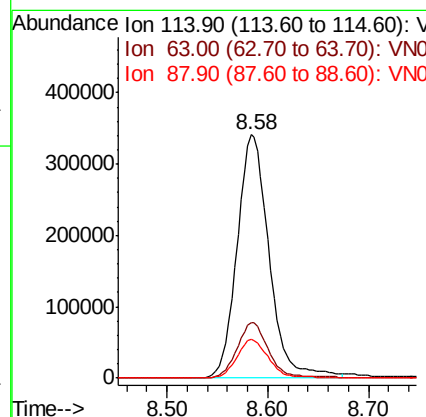
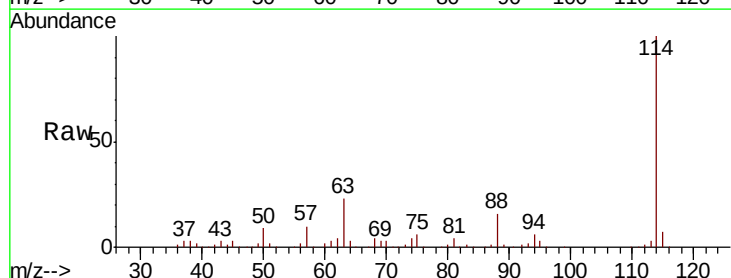
Instrument :
 MSVOA_N
 ClientSampleId :

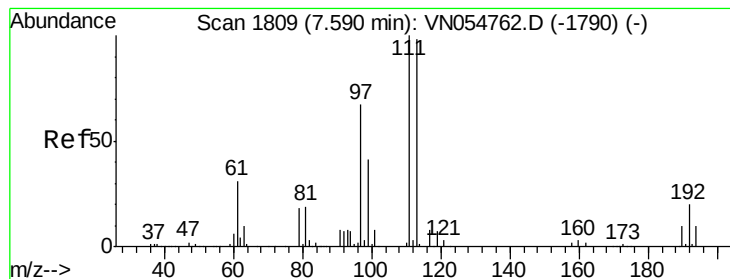
Tot Ion: 65 Resp: 305110
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054891.D
 Acq: 2 Apr 2019 10:34

Tgt Ion: 114 Resp: 753466
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 35.2
 88 15.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.095 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

Instrument :
MSVOA_N
ClientSampled :

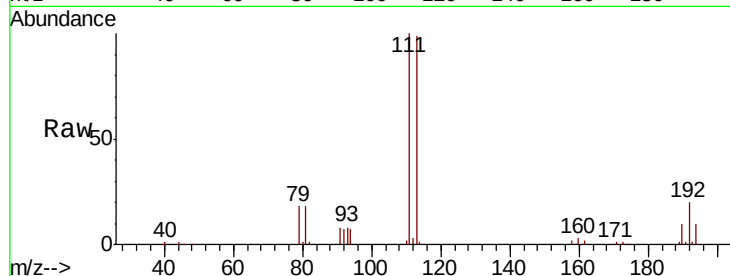
Tot Ion:113 Resp: 246619

Ion Ratio Lower Upper

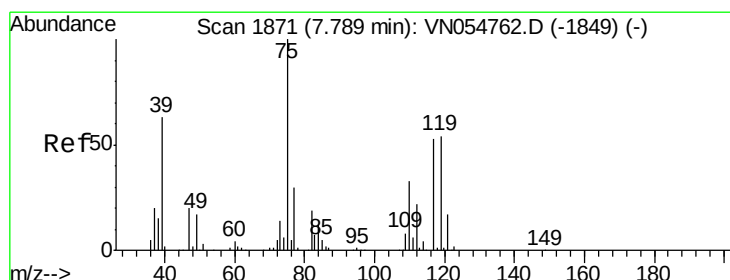
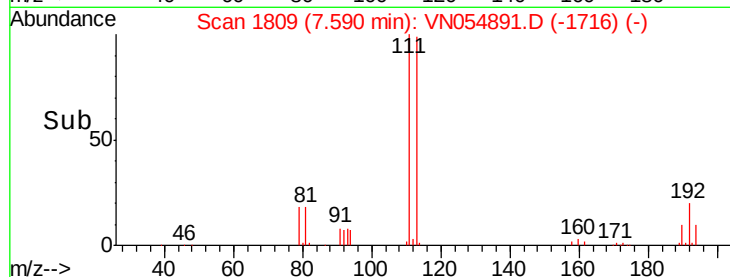
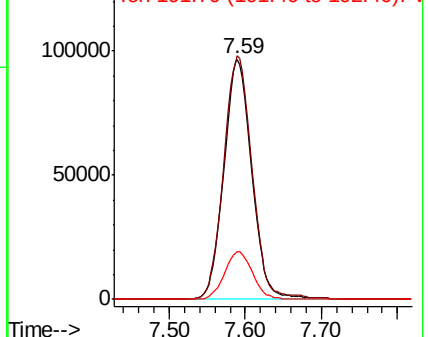
113 100

111 102.4 82.2 123.4

192 19.9 19.2 28.8



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: 5.249 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

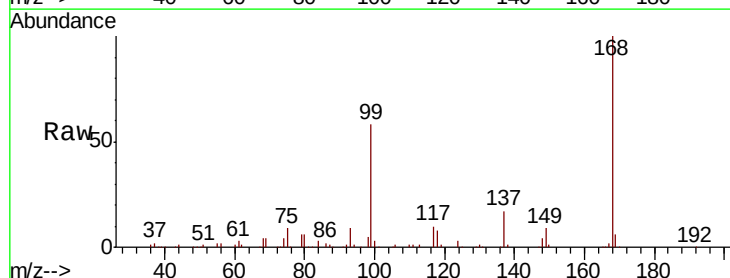
Tgt Ion: 75 Resp: 36851

Ion Ratio Lower Upper

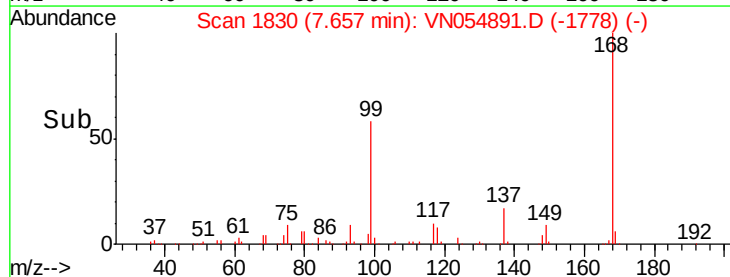
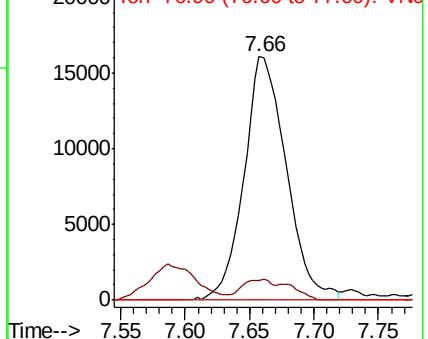
75 100

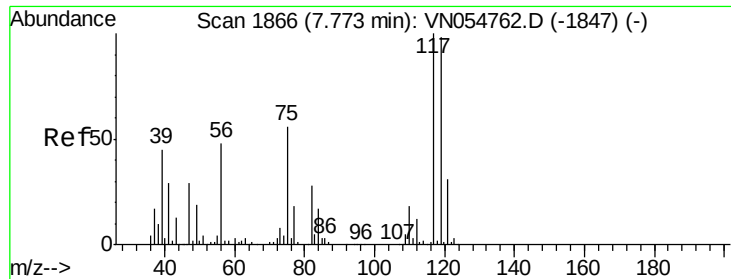
110 4.3 19.1 57.5#

77 0.0 25.0 37.4#



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

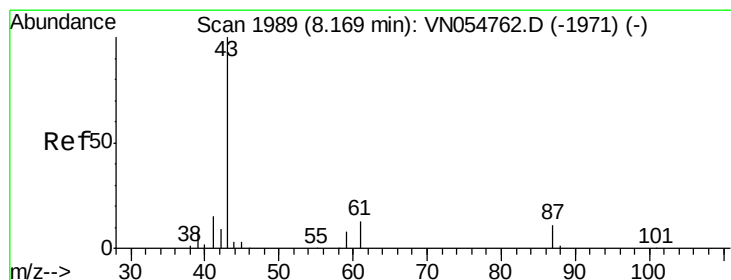
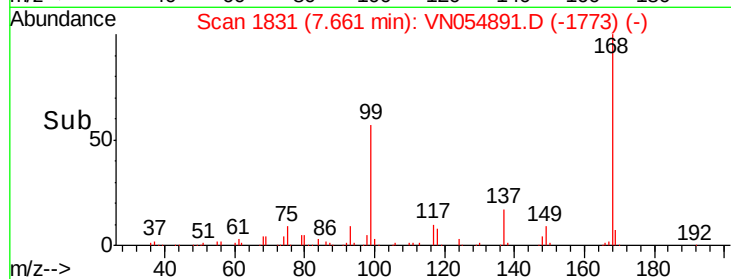
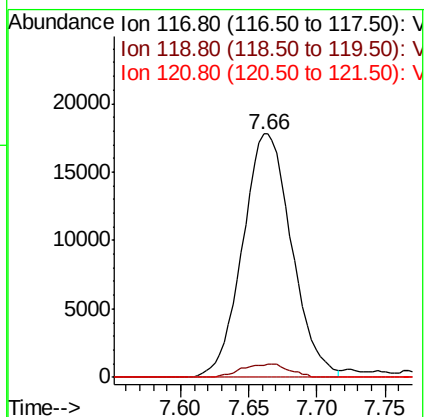
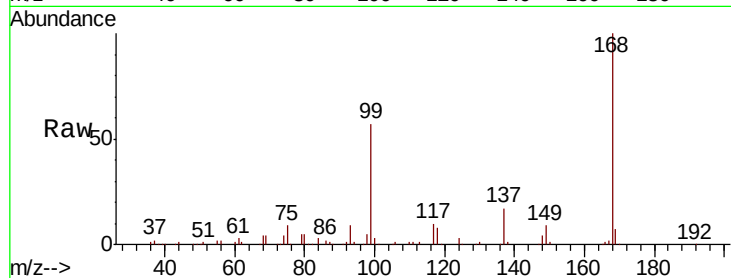




#38
Carbon Tetrachloride
Concen: 6.526 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

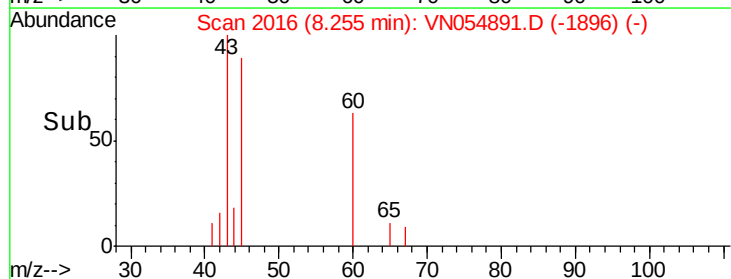
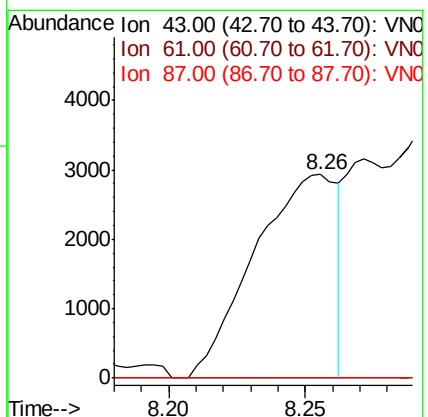
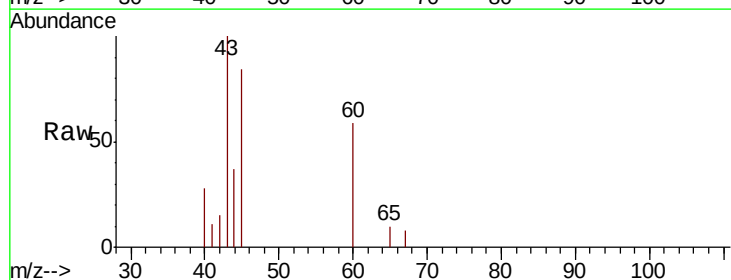
Instrument :
MSVOA_N
ClientSampled :

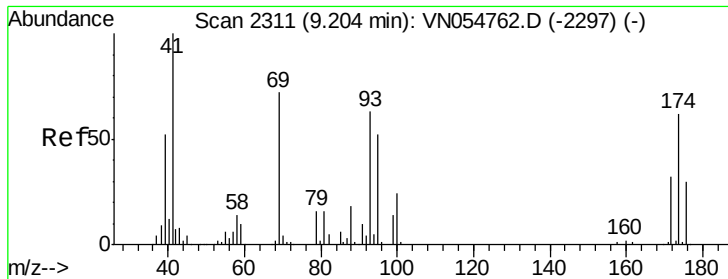
Tot Ion:117 Resp: 44503
Ion Ratio Lower Upper
117 100
119 5.2 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 0.740 ug/l
RT: 8.26 min Scan# 2016
Delta R.T. 0.09 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

Tgt Ion: 43 Resp: 6191
Ion Ratio Lower Upper
43 100
61 0.0 15.8 23.8#
87 0.0 12.0 18.0#





#49

1,4-Dioxane

Concen: 0.667 ug/l

RT: 8.92 min Scan# 2224

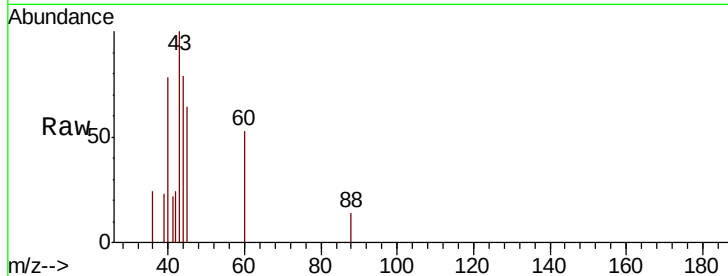
Delta R.T. -0.28 min

Lab File: VN054891.D

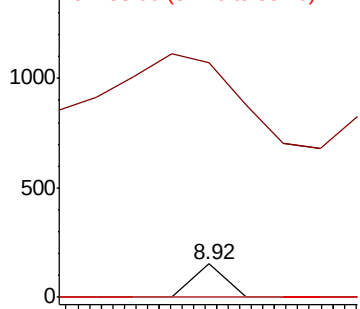
Acq: 2 Apr 2019 10:34

Instrument :
MSVOA_N
ClientSampled :

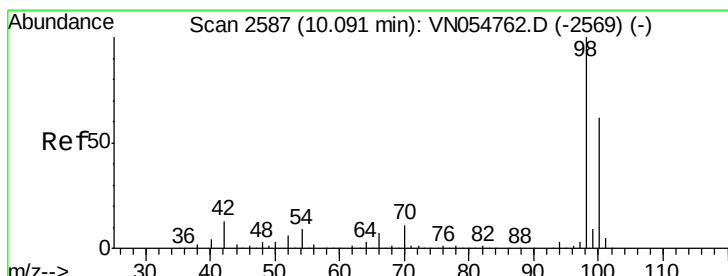
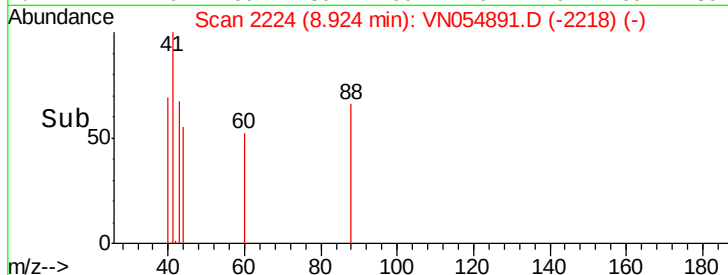
Tot Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 1033.3 24.1 36.1#
58 0.0 50.8 76.2#



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: 49.577 ug/l

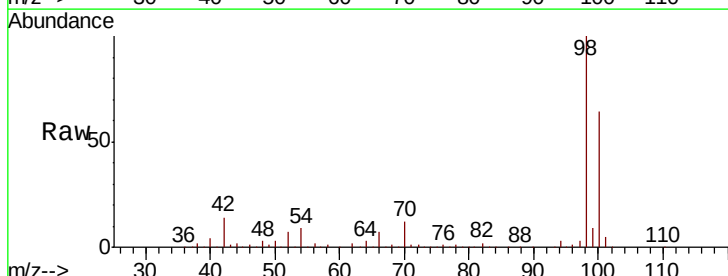
RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

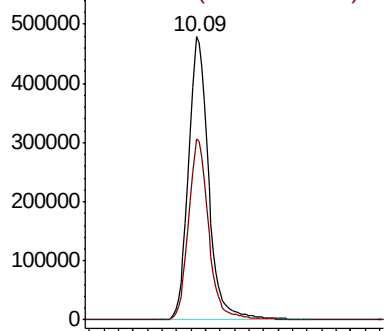
Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

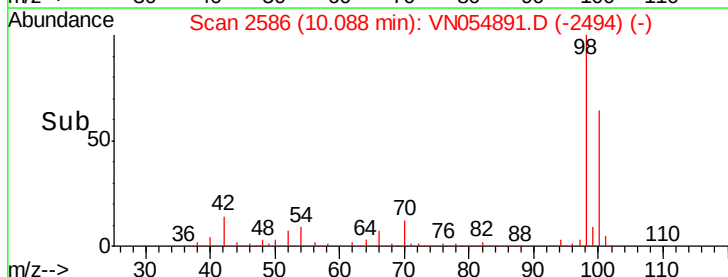
Tgt Ion: 98 Resp: 925878
Ion Ratio Lower Upper
98 100
100 63.0 51.2 76.8

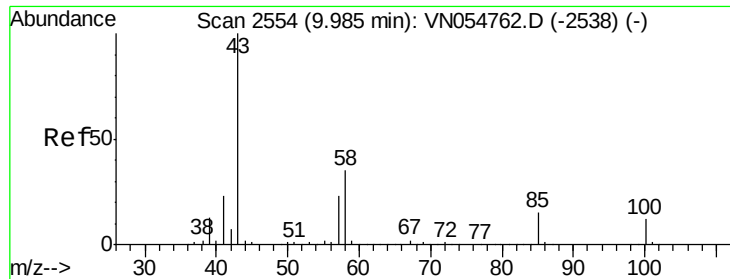


Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.496 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

Instrument :

MSVOA_N

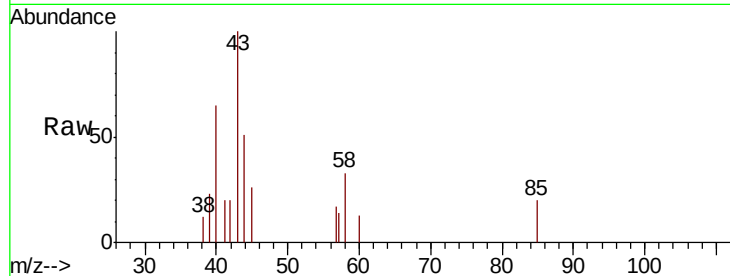
ClientSampled :

Tot Ion: 43 Resp: 2335

Ion Ratio Lower Upper

43 100

58 35.5 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1500

1000

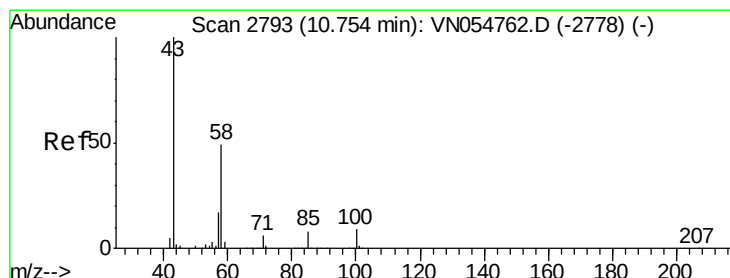
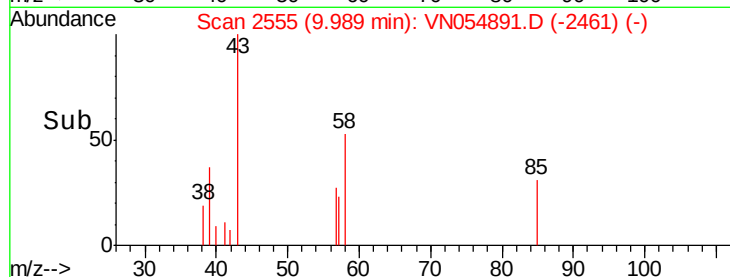
500

0

9.95

10.00

Time-->



#59

2-Hexanone

Concen: 1.318 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN054891.D

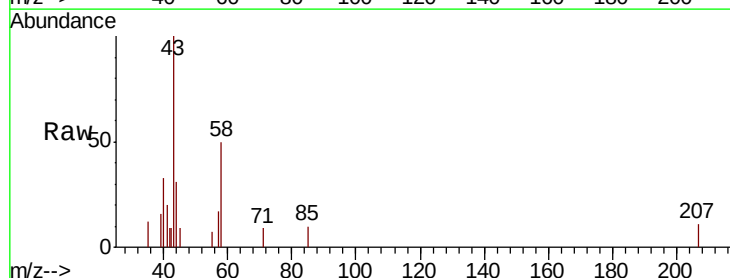
Acq: 2 Apr 2019 10:34

Tgt Ion: 43 Resp: 3967

Ion Ratio Lower Upper

43 100

58 49.9 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2500

2000

1500

1000

500

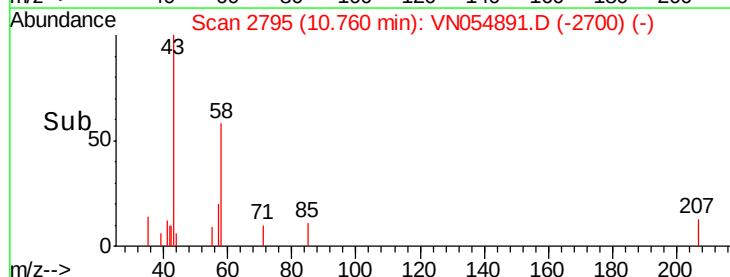
0

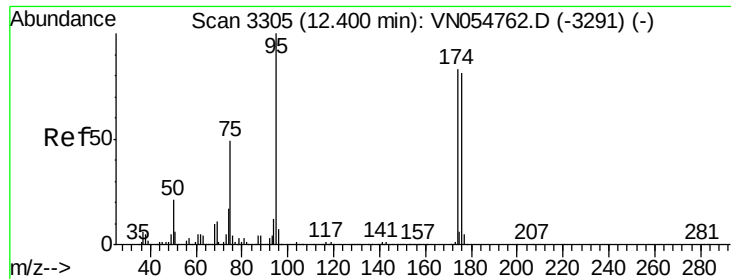
10.70

10.75

10.80

Time-->

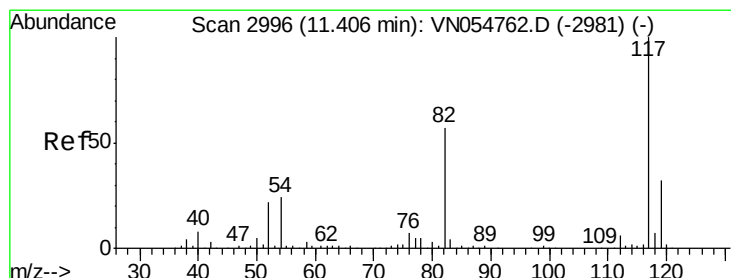
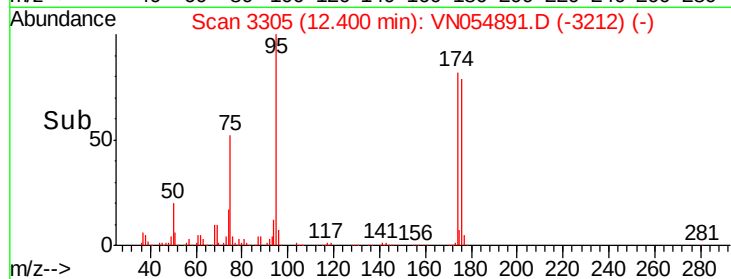
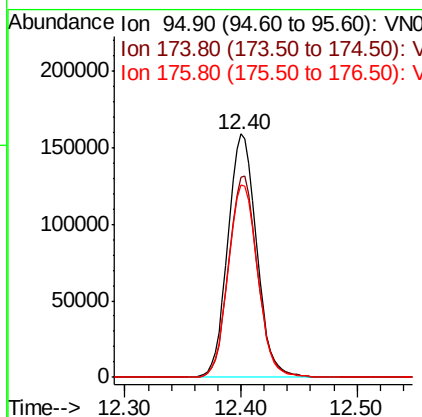
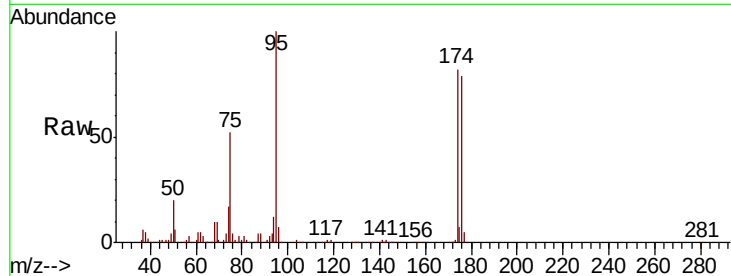




#62
4-Bromofluorobenzene
Concen: 43.807 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

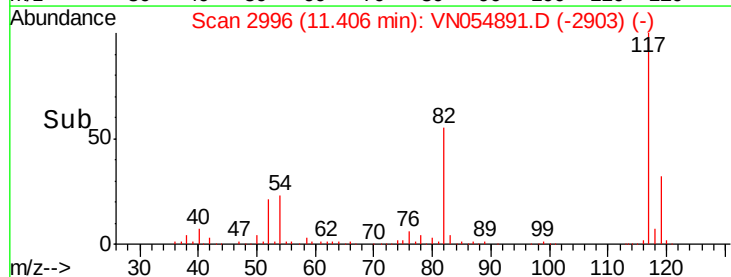
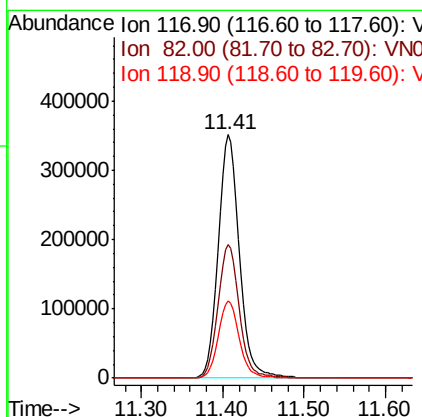
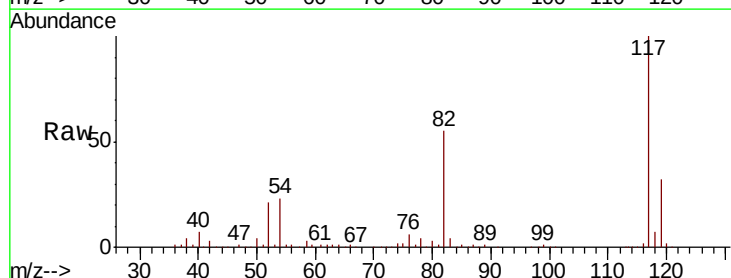
Instrument :
MSVOA_N
ClientSampleId :

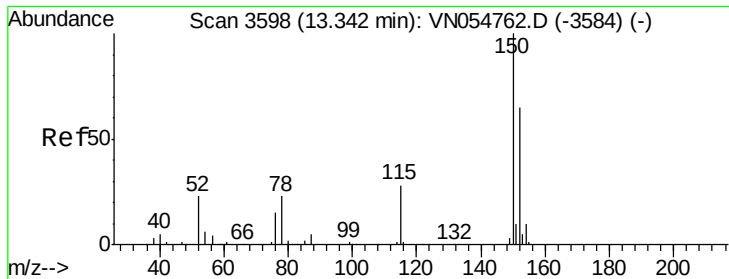
Tot Ion: 95 Resp: 272088
Ion Ratio Lower Upper
95 100
174 82.7 0.0 191.0
176 80.8 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

Tgt Ion: 117 Resp: 646128
Ion Ratio Lower Upper
117 100
82 55.0 40.0 60.0
119 31.5 25.8 38.6



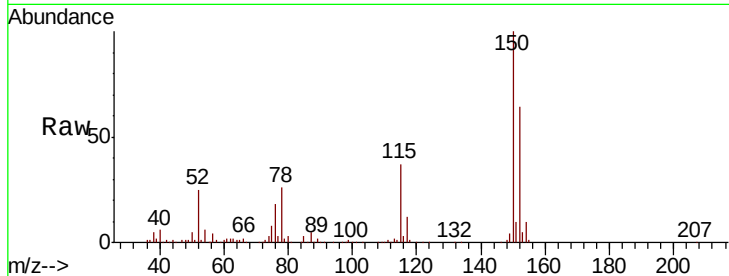


#72

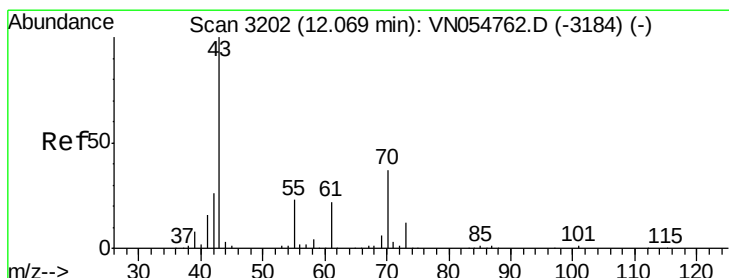
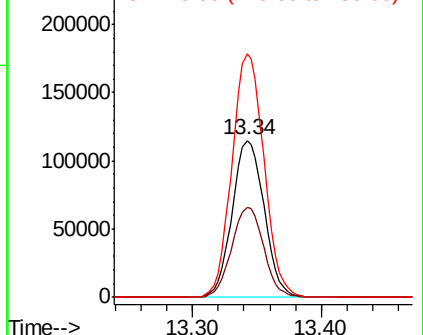
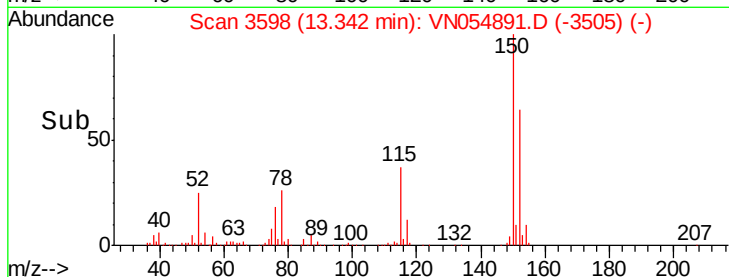
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 198663
Ion Ratio Lower Upper
152 100
115 57.3 27.2 81.6
150 154.8 0.0 349.2



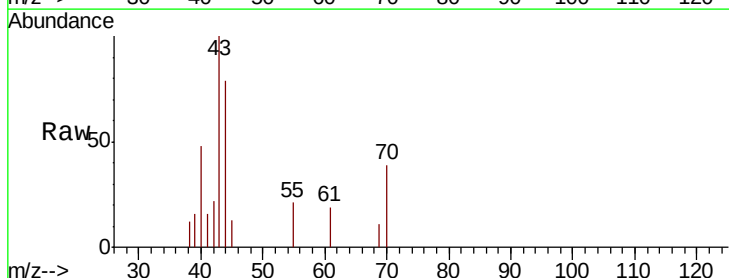
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



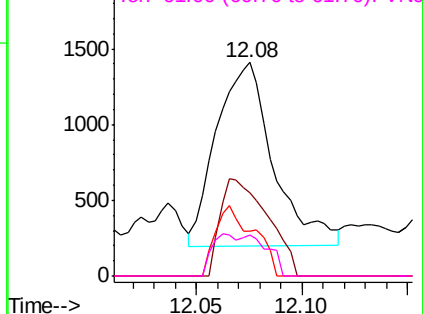
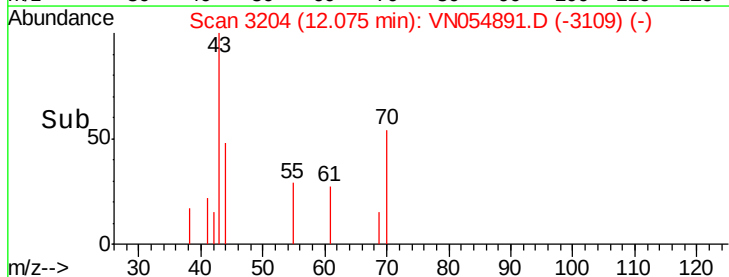
#74

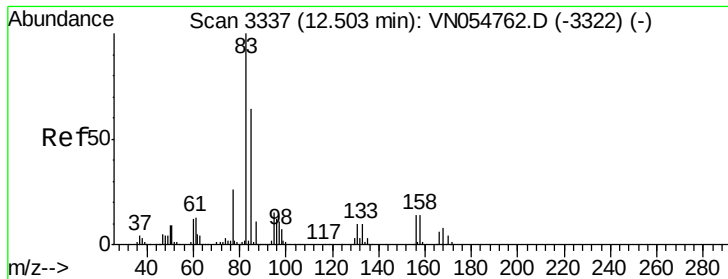
N-ethyl acetate
Concen: 0.448 ug/l
RT: 12.08 min Scan# 3204
Delta R.T. 0.01 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

Tgt Ion: 43 Resp: 2268
Ion Ratio Lower Upper
43 100
70 44.0 35.4 53.0
55 25.8 19.8 29.6
61 9.9 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

Instrument :

MSVOA_N

ClientSampled :

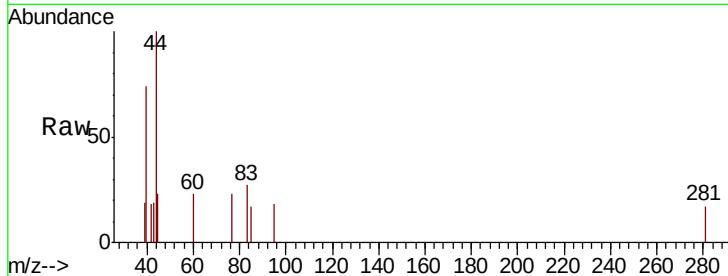
Tot Ion: 83 Resp: 166

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

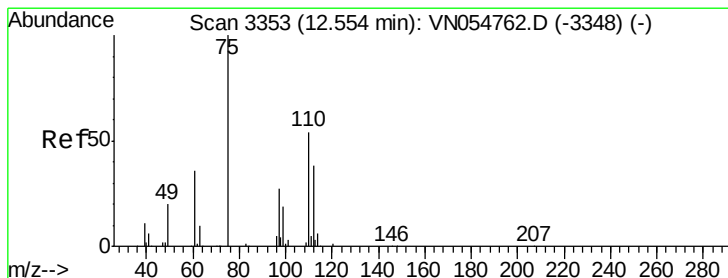
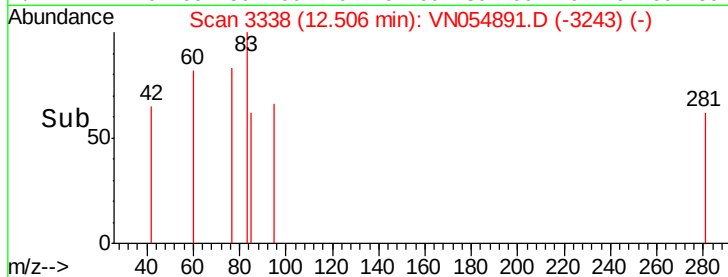
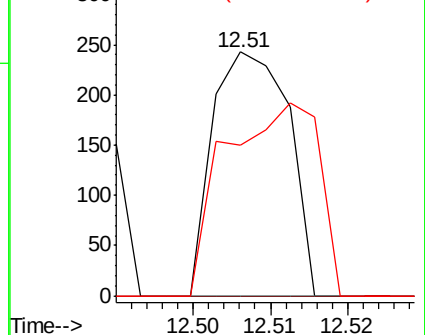
85 97.6 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 40.486 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054891.D

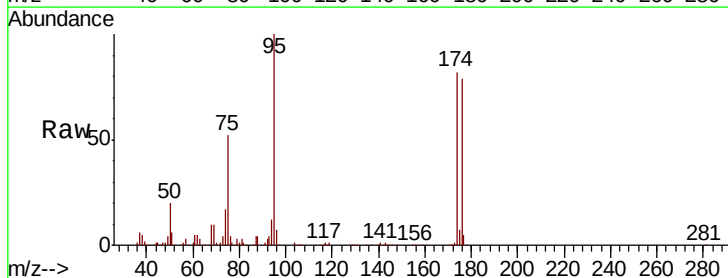
Acq: 2 Apr 2019 10:34

Tgt Ion: 75 Resp: 139728

Ion Ratio Lower Upper

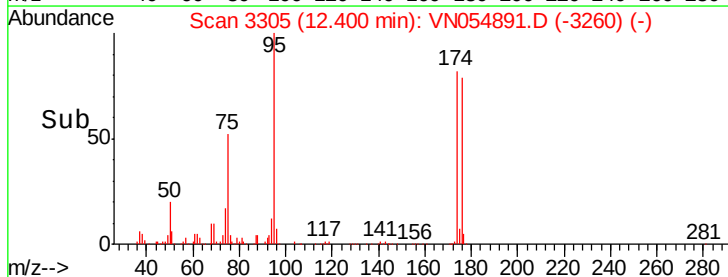
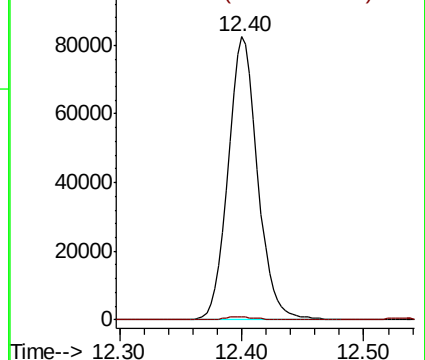
75 100

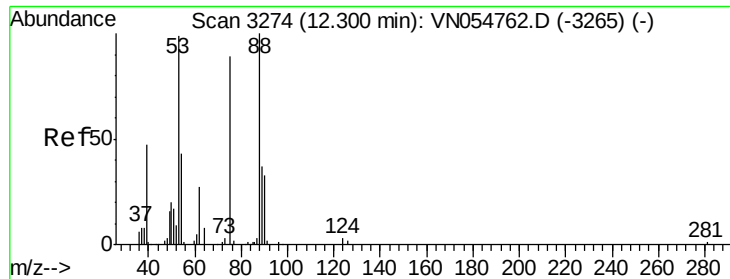
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

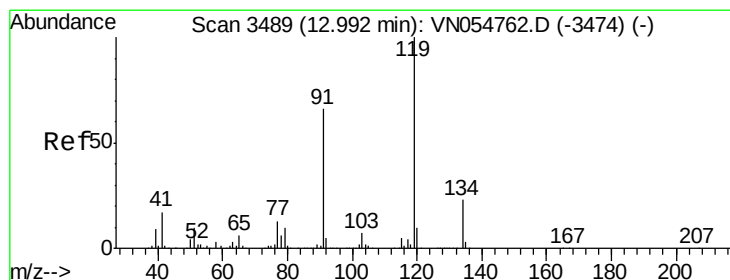
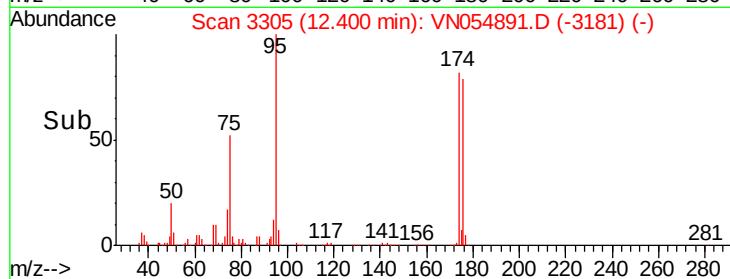
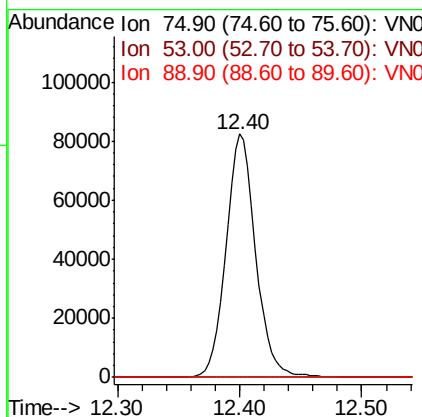
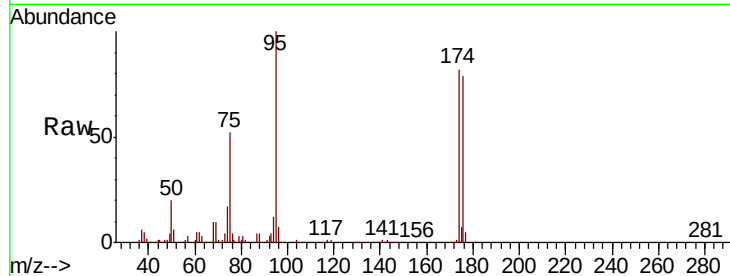




#81
trans-1,4-Dichloro-2-butene
Concen: 157.482 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

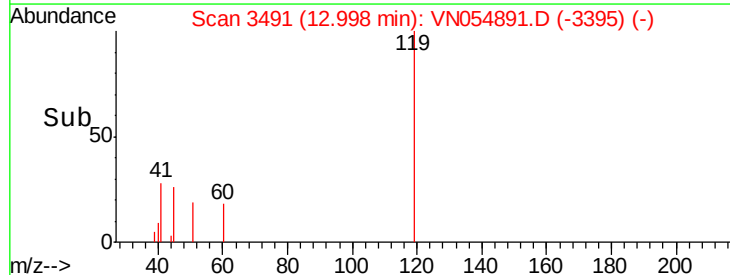
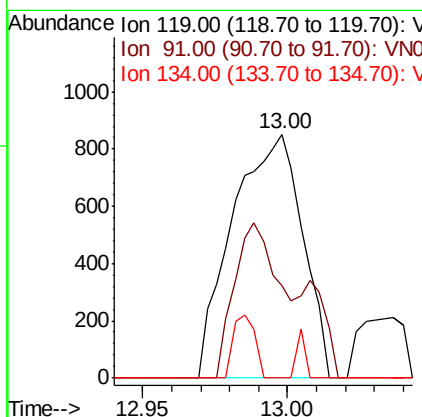
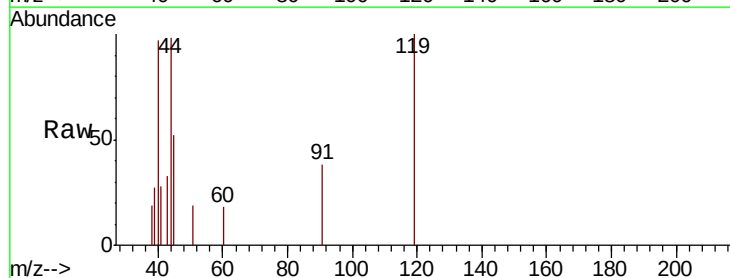
Instrument :
MSVOA_N
ClientSampleId :

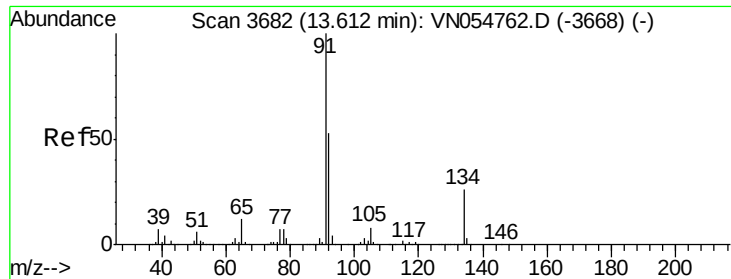
Tot Ion: 75 Resp: 139728
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#



#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.00 min Scan# 3491
Delta R.T. 0.01 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

Tgt Ion: 119 Resp: 1423
Ion Ratio Lower Upper
119 100
91 0.0 30.9 92.8#
134 2.3 13.2 39.6#

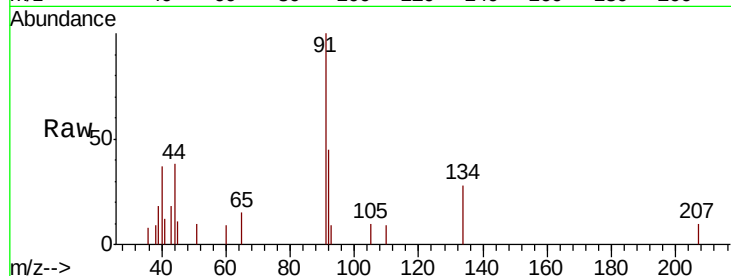




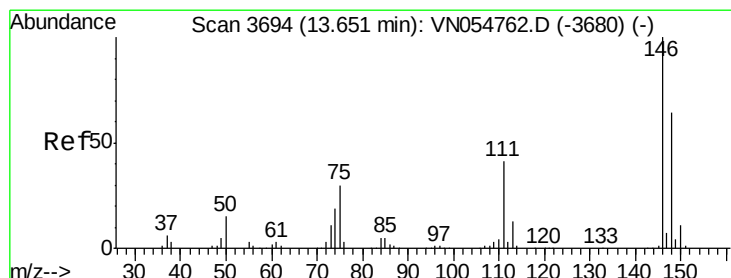
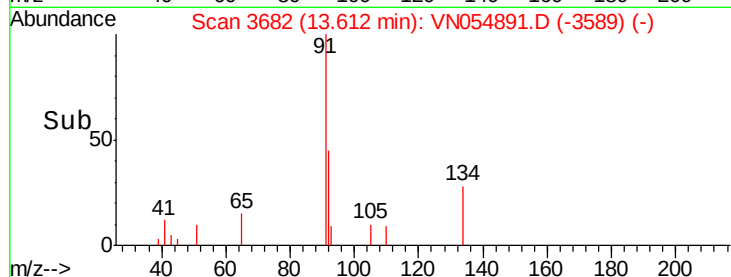
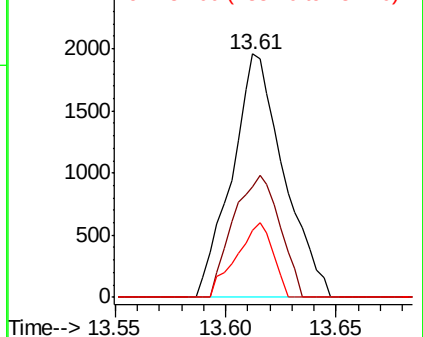
#89
n-Butylbenzene
Concen: 0.307 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 91 Resp: 3193
Ion Ratio Lower Upper
91 100
92 45.2 26.2 78.6
134 21.7 14.3 42.9

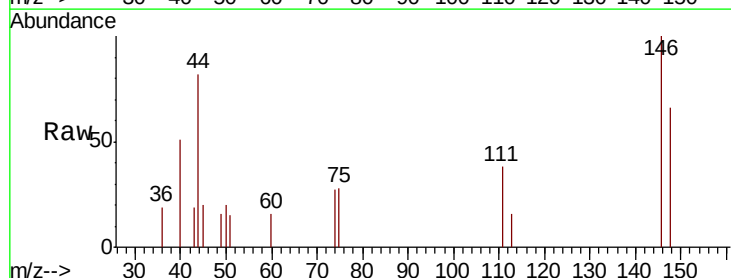


Abundance Ion 91.00 (90.70 to 91.70): VN054762.D (-3668) (-)
Ion 92.00 (91.70 to 92.70): VN054762.D (-3668) (-)
Ion 134.00 (133.70 to 134.70): VN054762.D (-3668) (-)

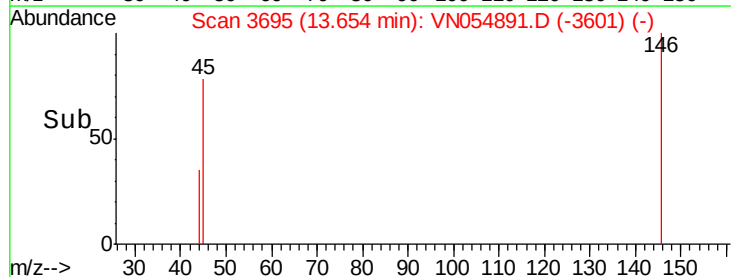
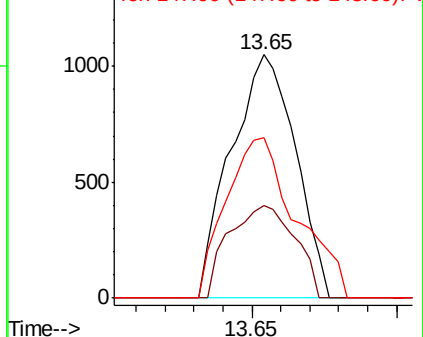


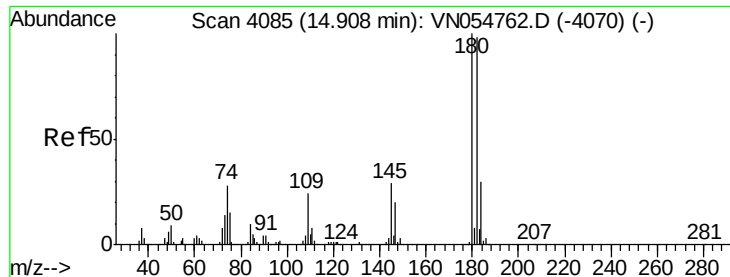
#91
1,2-Dichlorobenzene
Concen: 0.244 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN054891.D
Acq: 2 Apr 2019 10:34

Tgt Ion: 146 Resp: 1618
Ion Ratio Lower Upper
146 100
111 38.9 19.1 57.3
148 72.2 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): VN054762.D (-3680) (-)
Ion 110.90 (110.60 to 111.60): VN054762.D (-3680) (-)
Ion 147.90 (147.60 to 148.60): VN054762.D (-3680) (-)





#93

1,2,4-Trichlorobenzene

Concen: 0.789 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

Instrument :

MSVOA_N

ClientSampleId :

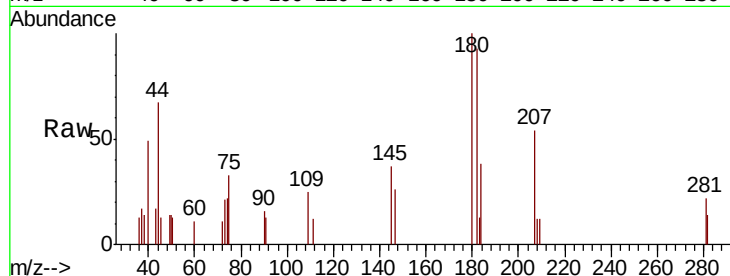
Tot Ion:180 Resp: 2519

Ion Ratio Lower Upper

180 100

182 94.8 48.0 144.2

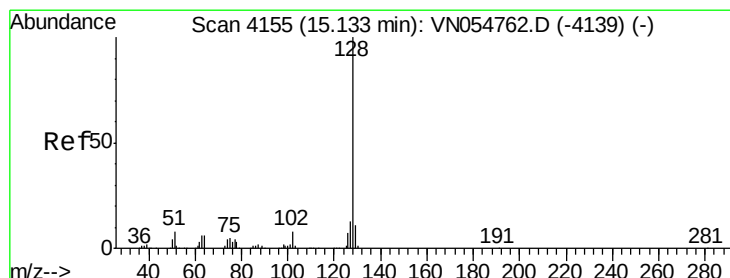
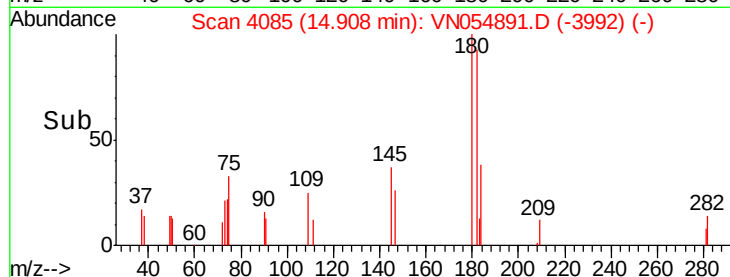
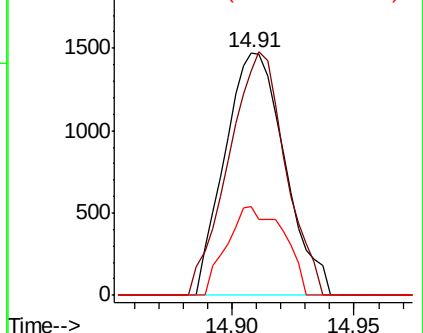
145 34.4 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 1.159 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054891.D

Acq: 2 Apr 2019 10:34

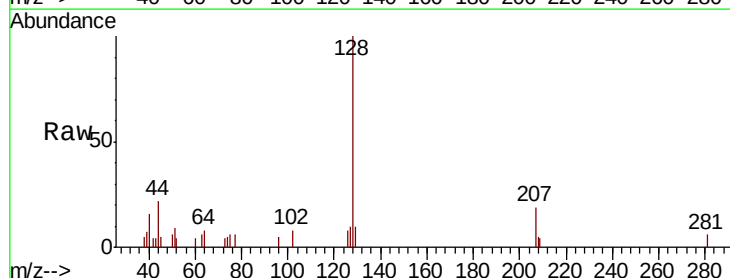
Tgt Ion:128 Resp: 8297

Ion Ratio Lower Upper

128 100

127 9.6 10.1 15.1#

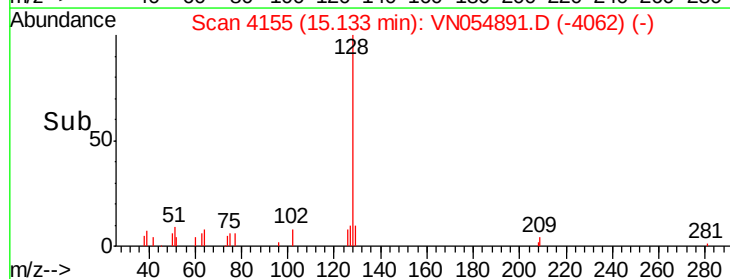
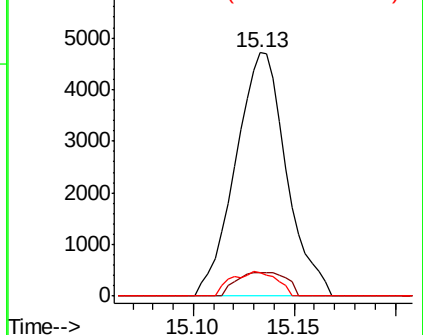
129 9.0 8.7 13.1

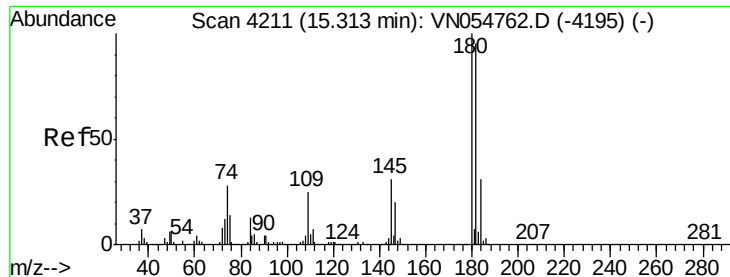


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

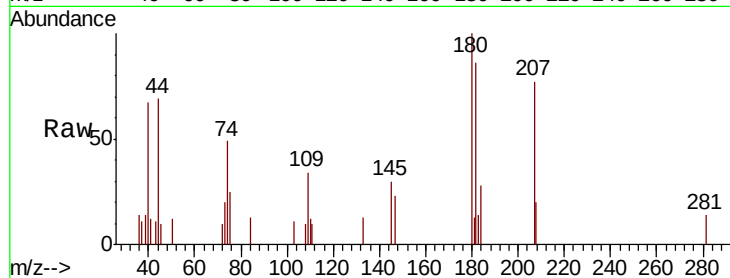




#96
 1,2,3-Trichlorobenzene
 Concen: 0.904 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN054891.D
 Acq: 2 Apr 2019 10:34

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	47.5	142.6
145	17.9	14.8	44.3



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

