

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042519\
 Data File : VN055236.D
 Acq On : 25 Apr 2019 10:24
 Operator : JC/SP
 Sample : VN0425WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0425WBL01

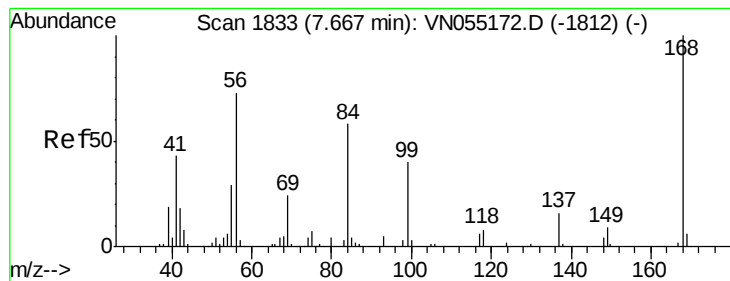
Quant Time: Apr 26 02:15:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 05:52:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	378131	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	641092	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	586962	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	153034	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	257743	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
35) Dibromofluoromethane	7.59	113	211448	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	10.09	98	791178	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	12.40	95	233715	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	107	9.739	ug/l #	14
16) Acetone	3.81	43	766	0.453	ug/l #	45
17) Carbon Disulfide	4.06	76	4505	0.414	ug/l #	92
18) Methyl Acetate	4.34	43	4953	0.240	ug/l #	86
29) Tetrahydrofuran	7.22	42	376	0.280	ug/l #	39
31) Cyclohexane	7.67	56	8447	Below Cal	#	12
36) 1,1-Dichloropropene	7.67	75	28801	4.840	ug/l #	50
38) Carbon Tetrachloride	7.66	117	35305	6.336	ug/l #	17
43) Isopropyl Acetate	8.30	43	49325	6.343	ug/l #	57
71) Bromoform	12.40	173	1543	0.582	ug/l #	1
73) Isopropylbenzene	12.25	105	292	Below Cal	#	49
76) 1,2,3-Trichloropropane	12.40	75	119226	38.402	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119226	145.577	ug/l #	5
83) tert-Butylbenzene	12.99	119	31	Below Cal	#	25
93) 1,2,4-Trichlorobenzene	14.90	180	145	2.799	ug/l #	30
94) Hexachlorobutadiene	15.00	225	229	Below Cal	#	50
95) Naphthalene	15.13	128	912	3.563	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	74	2.155	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

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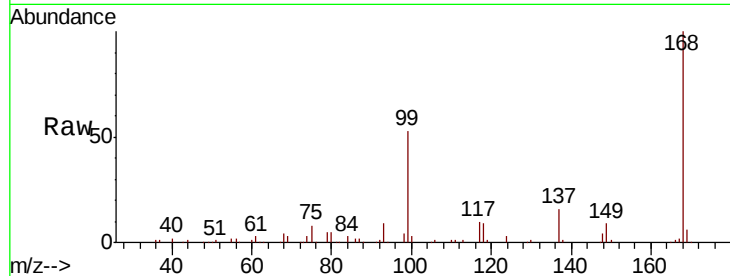
VN0425WBL01

Tot Ion:168 Resp: 378131

Ion Ratio Lower Upper

168 100

99 53.2 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VN055172.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055172.D (-1812) (-)

7.66

150000

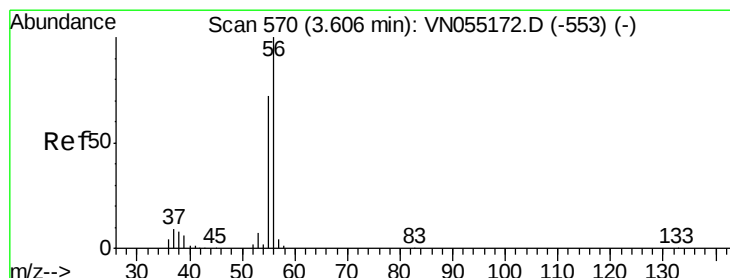
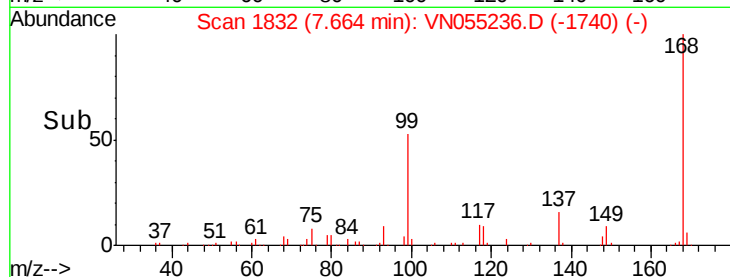
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 9.739 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN055236.D

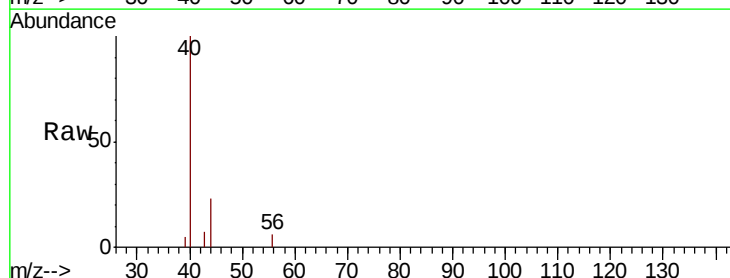
Acq: 25 Apr 2019 10:24

Tgt Ion: 56 Resp: 107

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN055172.D (-553) (-)

Ion 55.00 (54.70 to 55.70): VN055172.D (-553) (-)

3.61

200

150

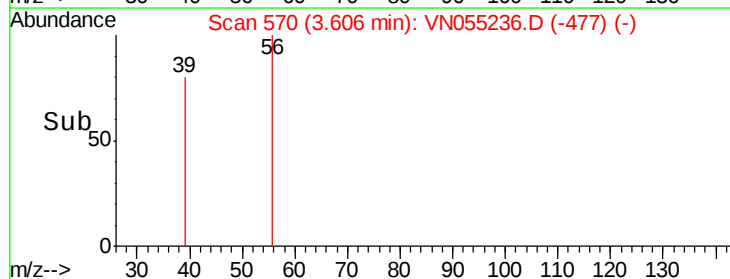
100

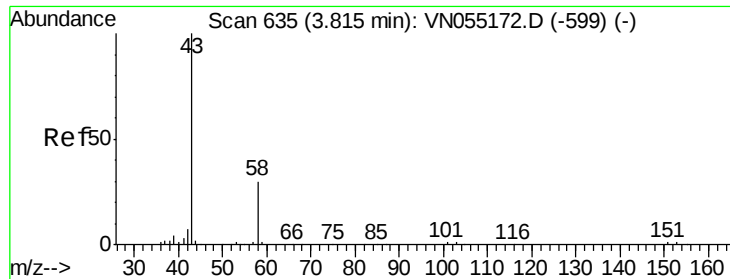
50

0

3.59 3.60 3.61 3.62

Time-->





#16

Acetone

Concen: 0.453 ug/l

RT: 3.81 min Scan# 633

Delta R.T. -0.01 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

Instrument :

MSVOA_N

ClientSampleId :

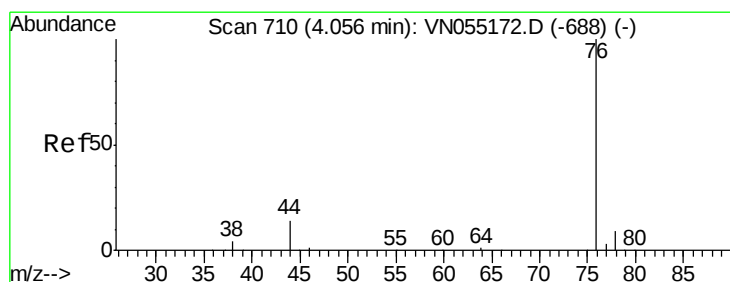
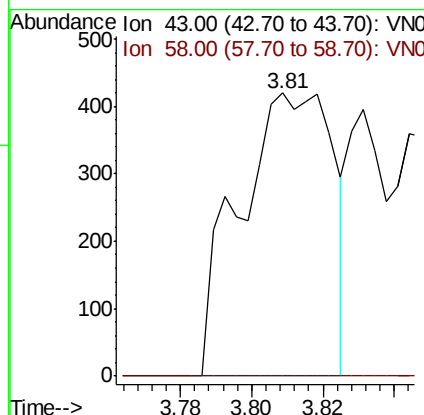
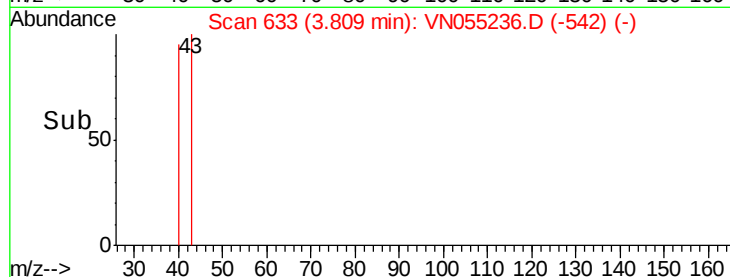
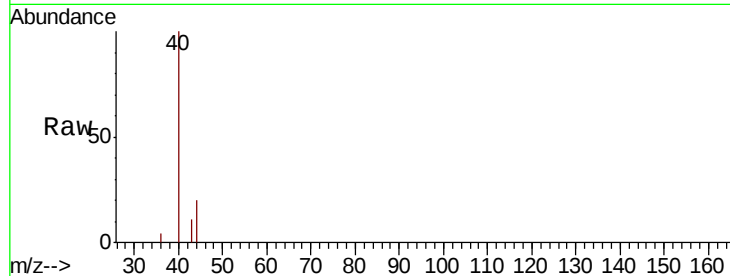
VN0425WBL01

Tot Ion: 43 Resp: 766

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.8#



#17

Carbon Disulfide

Concen: 0.414 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.01 min

Lab File: VN055236.D

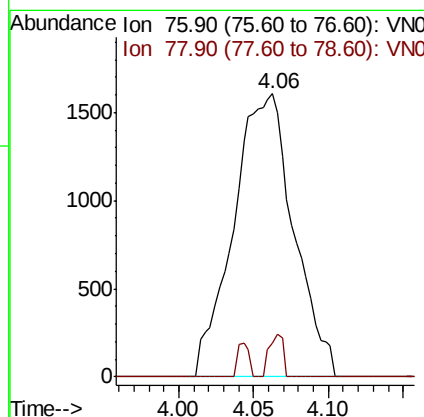
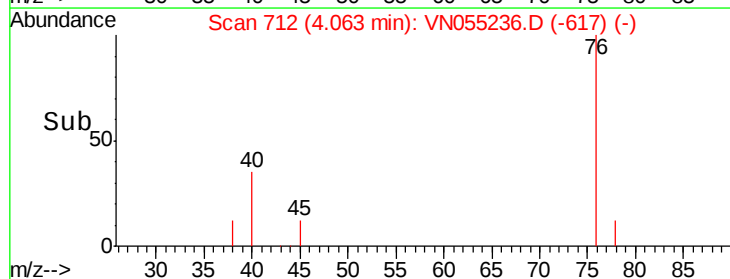
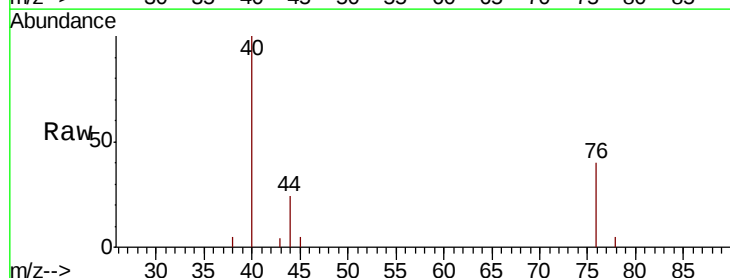
Acq: 25 Apr 2019 10:24

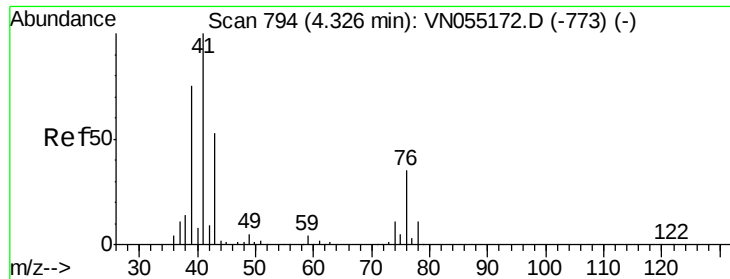
Tgt Ion: 76 Resp: 4505

Ion Ratio Lower Upper

76 100

78 12.1 7.3 10.9#

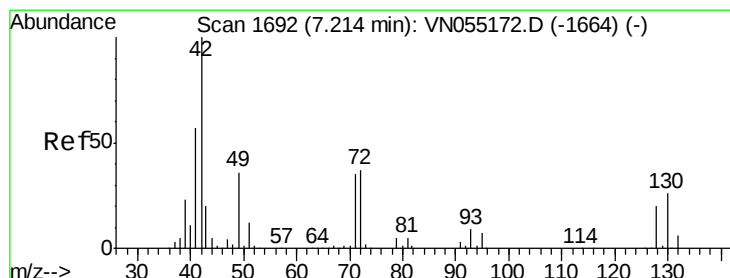
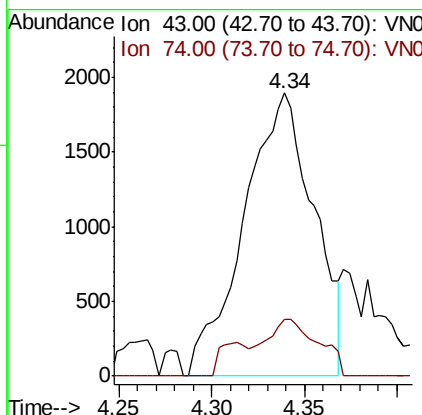
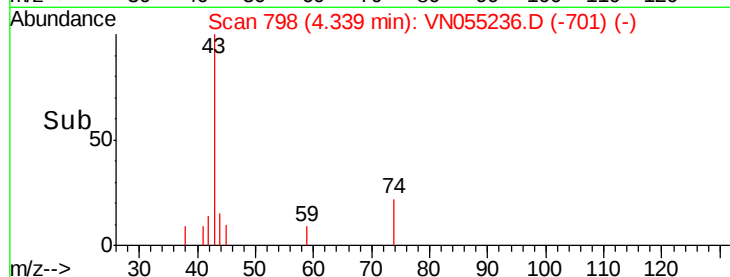
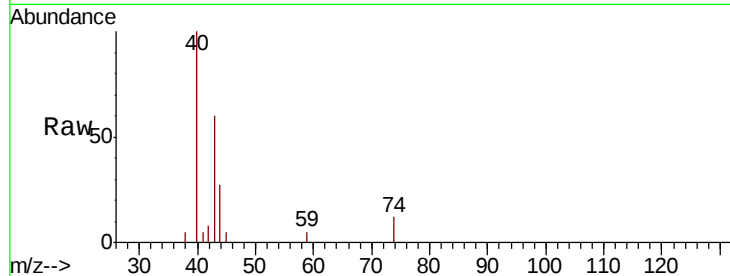




#18
Methyl Acetate
Concen: 0.240 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN055236.D
Acq: 25 Apr 2019 10:24

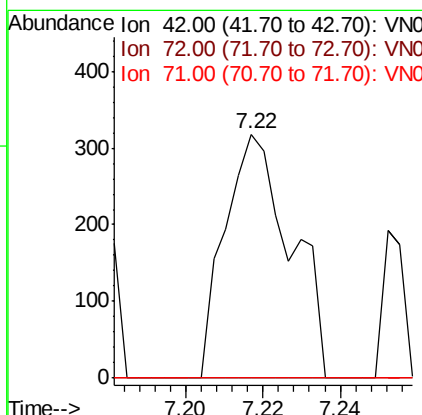
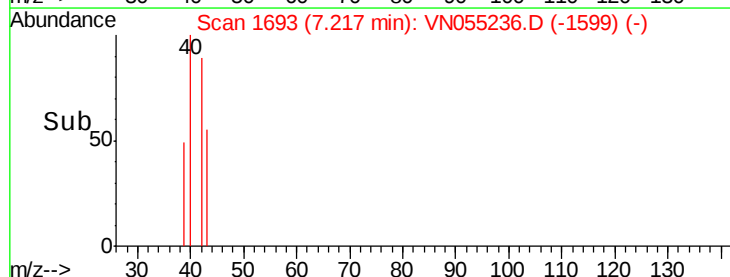
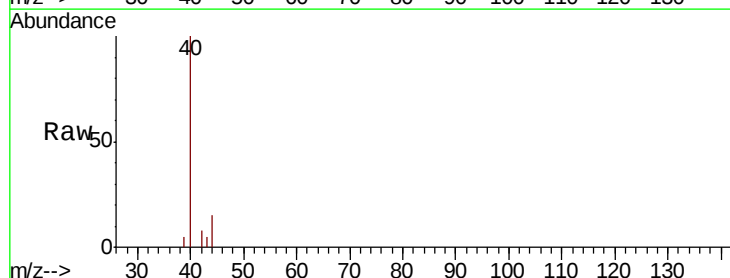
Instrument :
MSVOA_N
ClientSampled :
VN0425WBL01

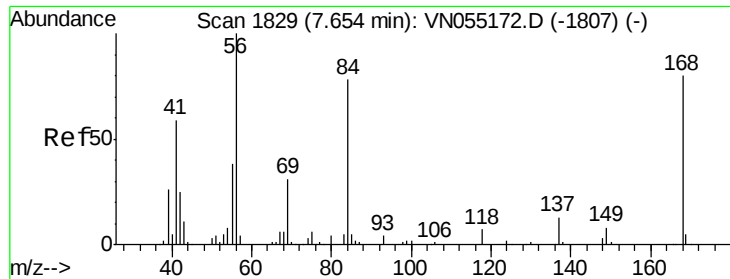
Tot Ion: 43 Resp: 4953
Ion Ratio Lower Upper
43 100
74 14.6 16.7 25.1#



#29
Tetrahydrofuran
Concen: 0.280 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN055236.D
Acq: 25 Apr 2019 10:24

Tgt Ion: 42 Resp: 376
Ion Ratio Lower Upper
42 100
72 0.0 29.4 44.2#
71 0.0 27.8 41.8#

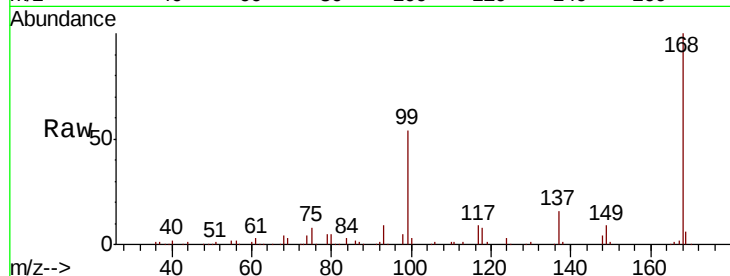




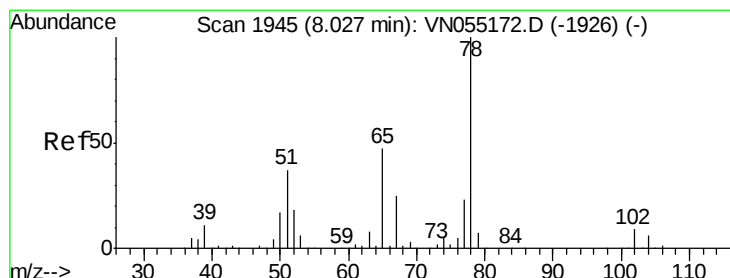
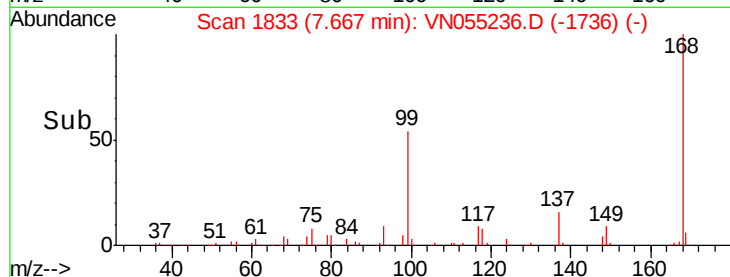
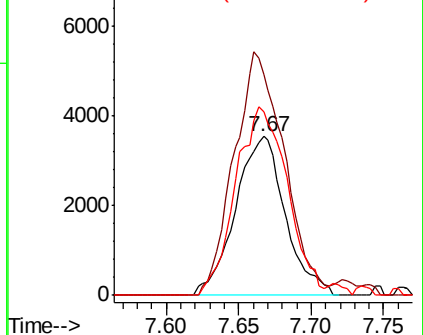
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN055236.D
Acq: 25 Apr 2019 10:24

Instrument :
MSVOA_N
ClientSampleId :
VN0425WBL01

Tot Ion: 56 Resp: 8447
Ion Ratio Lower Upper
56 100
69 138.7 24.6 37.0#
84 115.6 61.4 92.2#

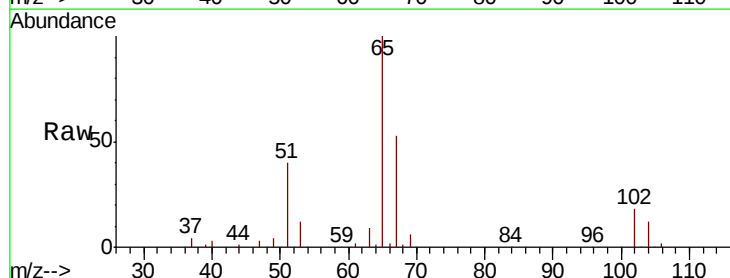


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

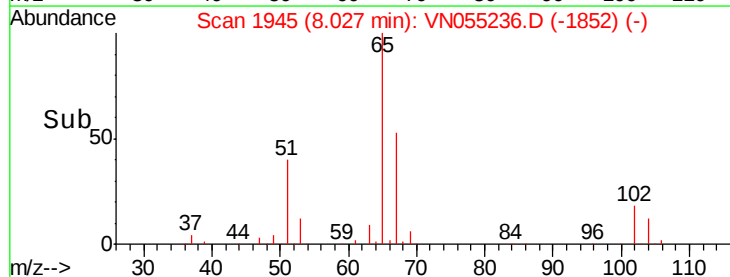
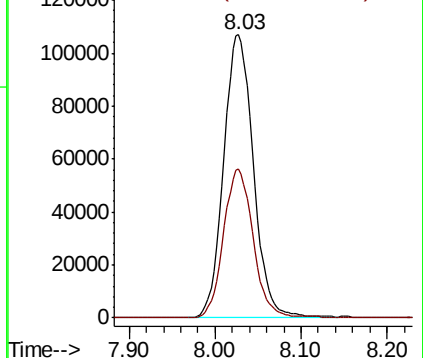


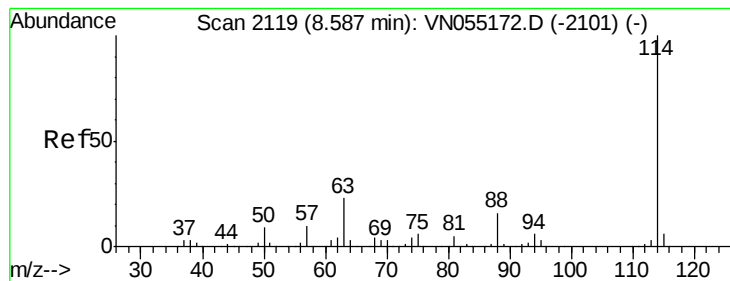
#33
1,2-Dichloroethane-d4
Concen: 50.359 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055236.D
Acq: 25 Apr 2019 10:24

Tgt Ion: 65 Resp: 257743
Ion Ratio Lower Upper
65 100
67 52.3 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

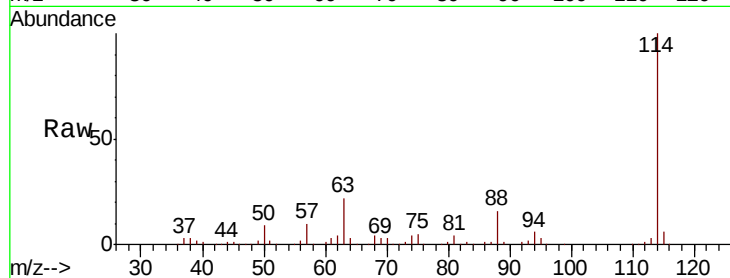
Tot Ion:114 Resp: 641092

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.2

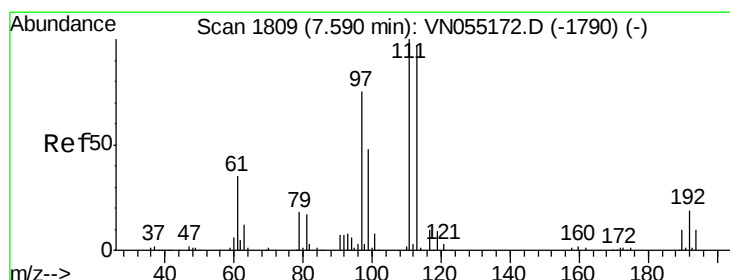
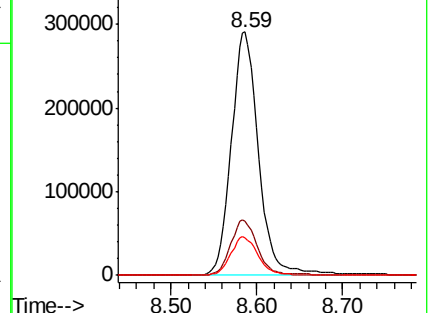
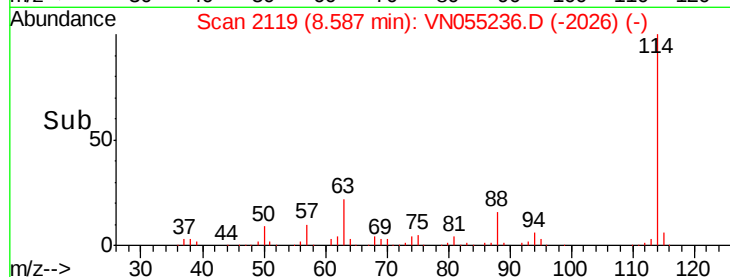
88 15.5 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.550 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

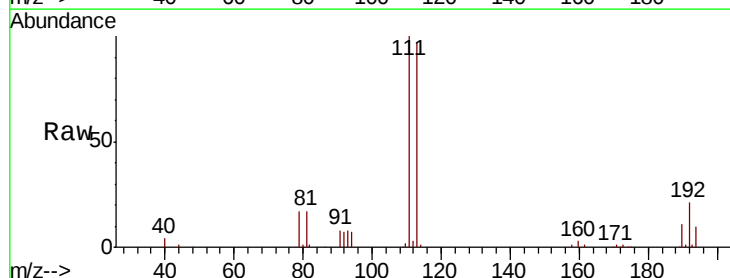
Tgt Ion:113 Resp: 211448

Ion Ratio Lower Upper

113 100

111 103.0 81.0 121.4

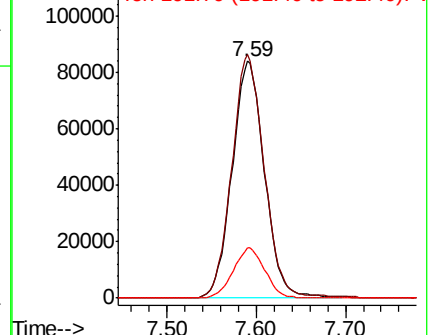
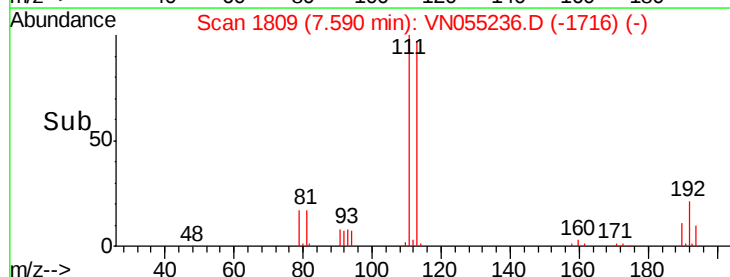
192 20.7 16.2 24.4

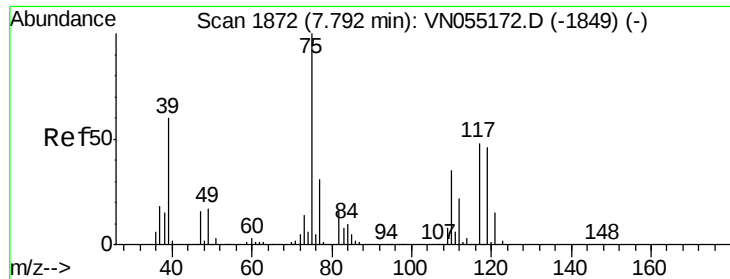


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

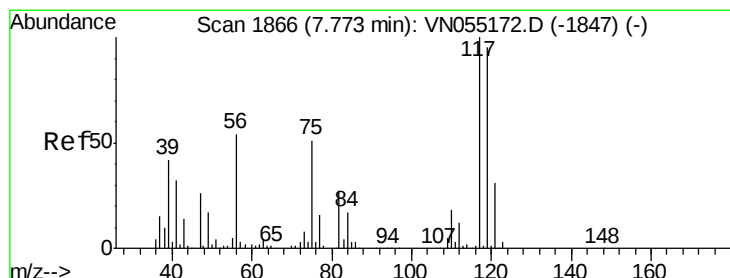
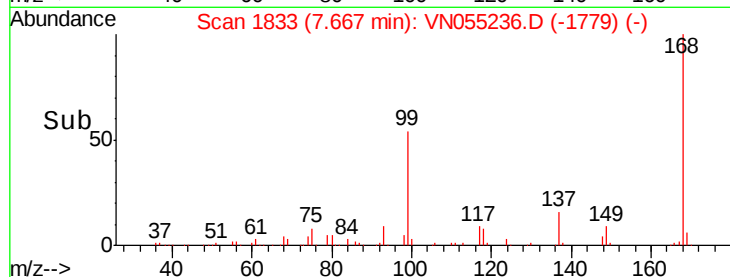
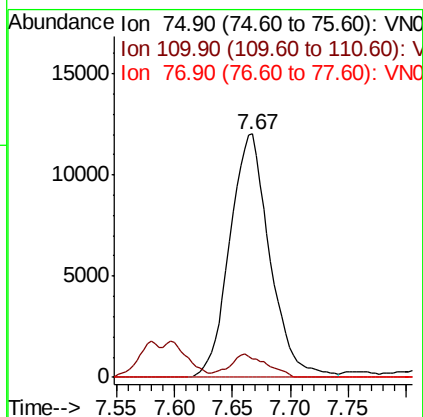
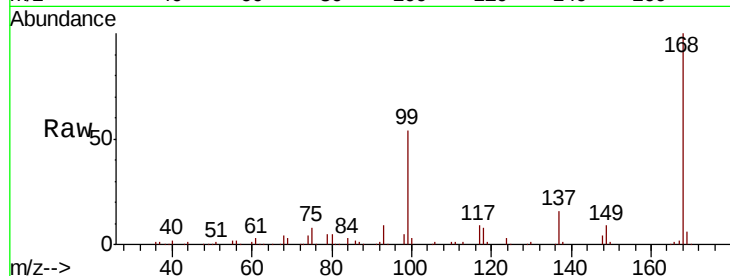




#36
 1,1-Dichloropropene
 Concen: 4.840 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055236.D
 Acq: 25 Apr 2019 10:24

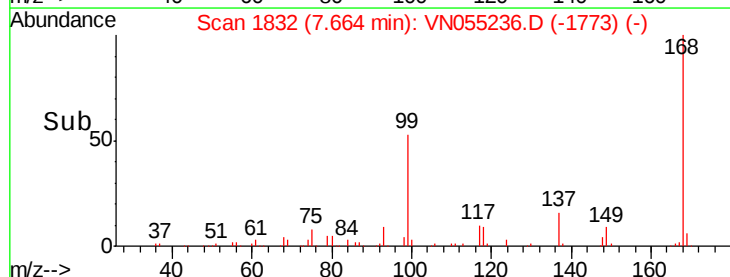
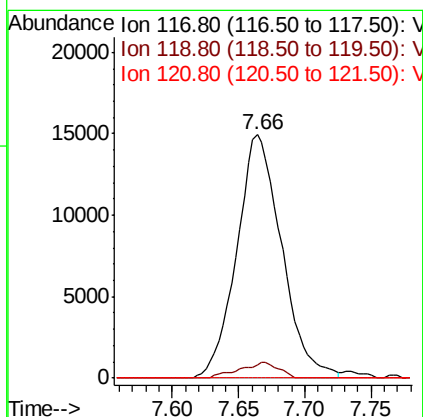
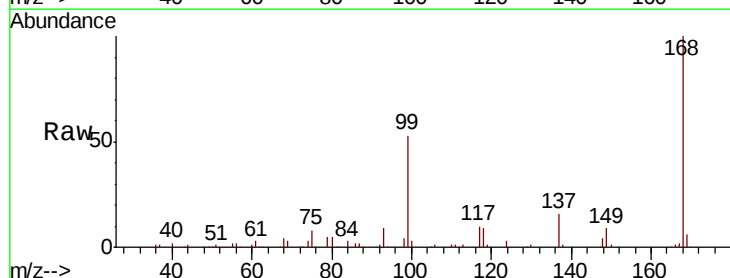
Instrument :
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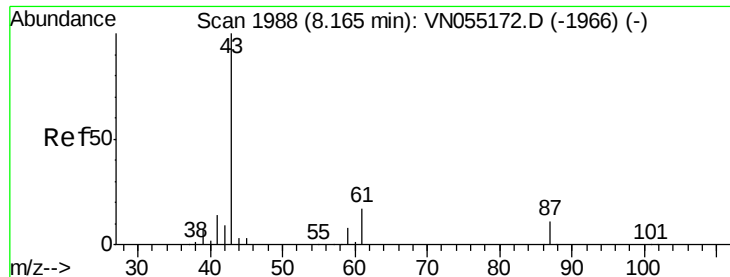
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.1	51.2#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.336 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055236.D
 Acq: 25 Apr 2019 10:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.0	114.0#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 6.343 ug/l

RT: 8.30 min Scan# 2029

Delta R.T. 0.13 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

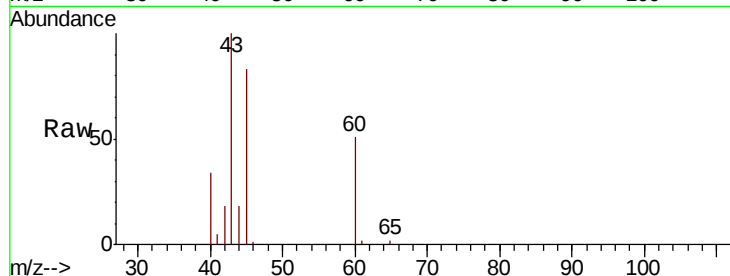
Tot Ion: 43 Resp: 49325

Ion Ratio Lower Upper

43 100

61 0.5 20.6 30.8#

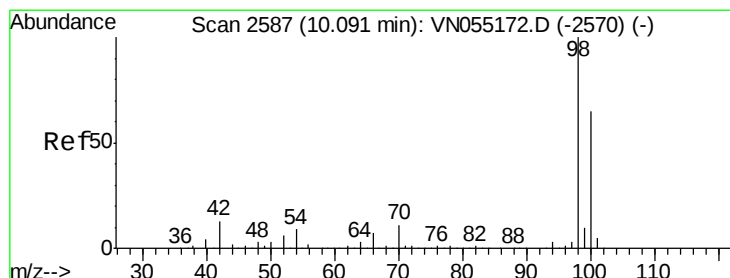
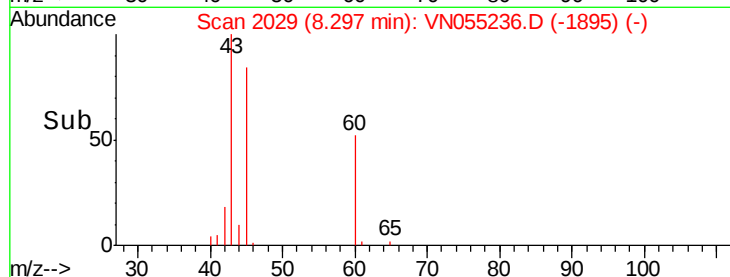
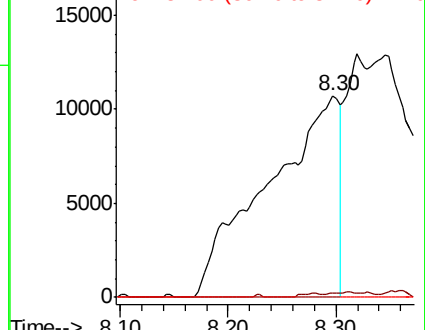
87 0.0 8.8 13.2#



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



#50

Toluene-d8

Concen: 49.029 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055236.D

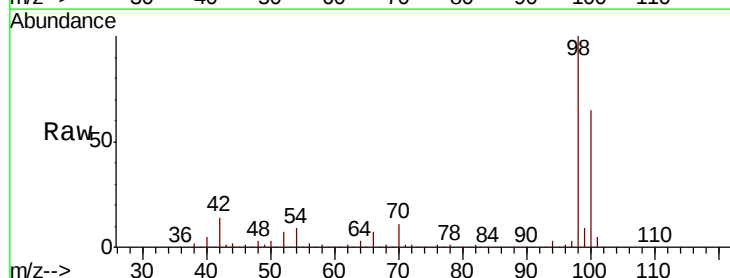
Acq: 25 Apr 2019 10:24

Tgt Ion: 98 Resp: 791178

Ion Ratio Lower Upper

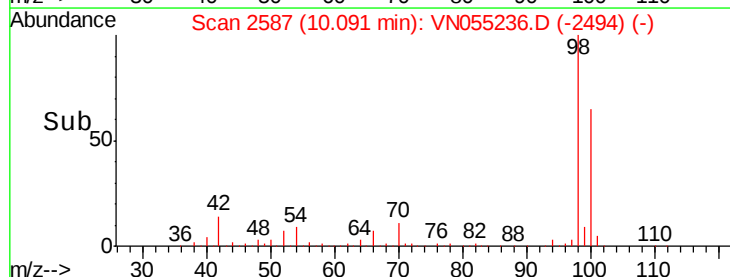
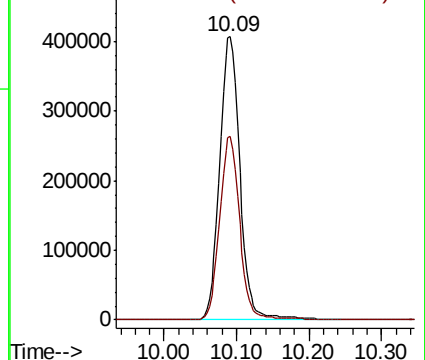
98 100

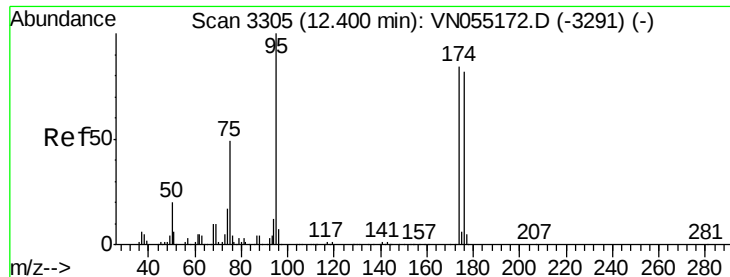
100 64.3 51.8 77.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.736 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

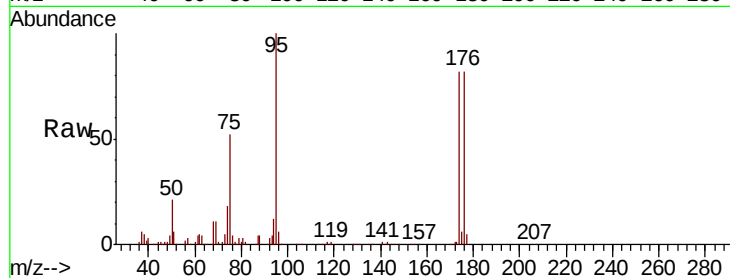
Tot Ion: 95 Resp: 233715

Ion Ratio Lower Upper

95 100

174 83.9 0.0 168.4

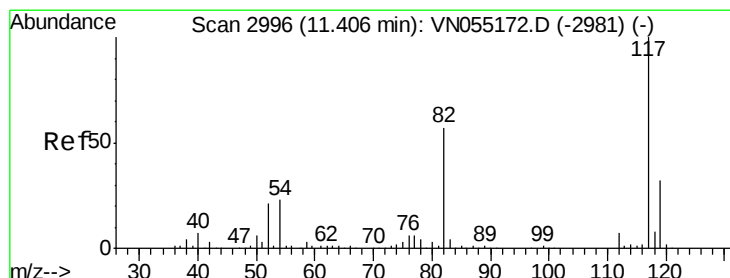
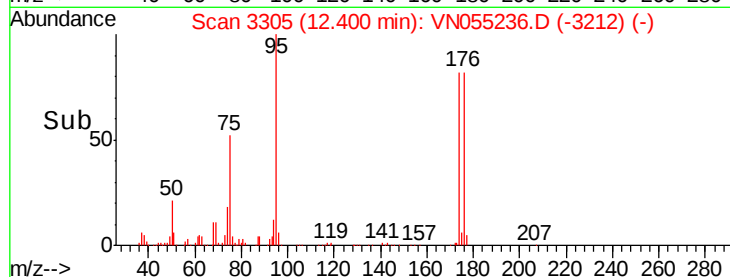
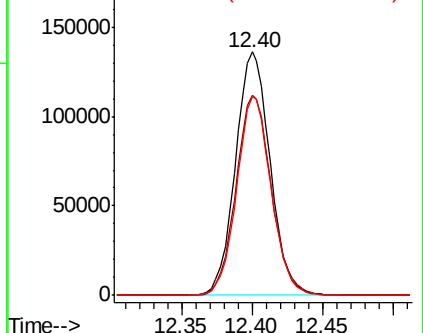
176 81.3 0.0 164.0



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: VN055236.D

Acq: 25 Apr 2019 10:24

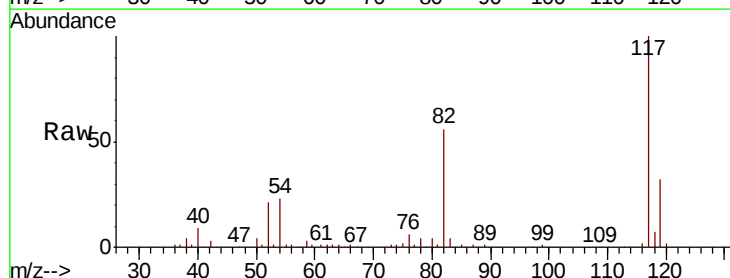
Tgt Ion: 117 Resp: 586962

Ion Ratio Lower Upper

117 100

82 56.0 45.7 68.5

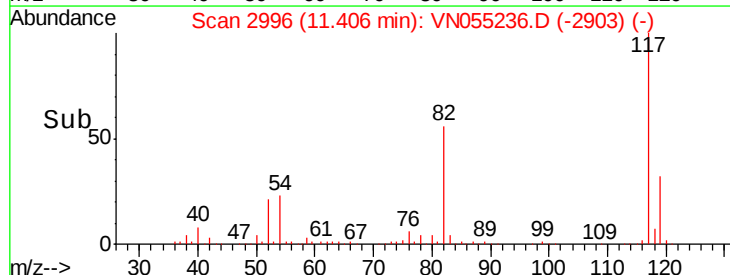
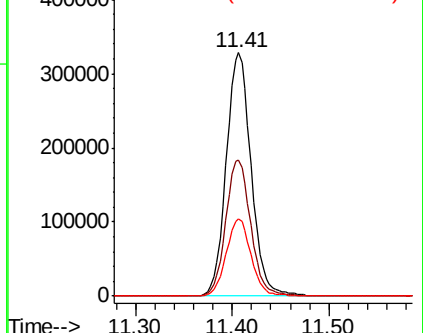
119 31.9 25.4 38.2

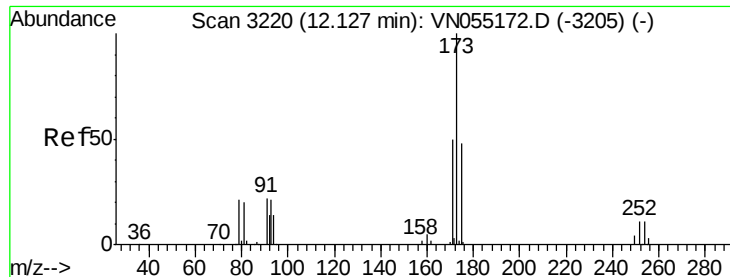


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.582 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

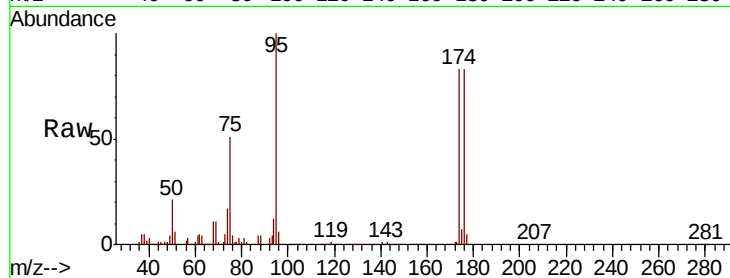
Tot Ion:173 Resp: 1543

Ion Ratio Lower Upper

173 100

175 866.4 23.8 71.2#

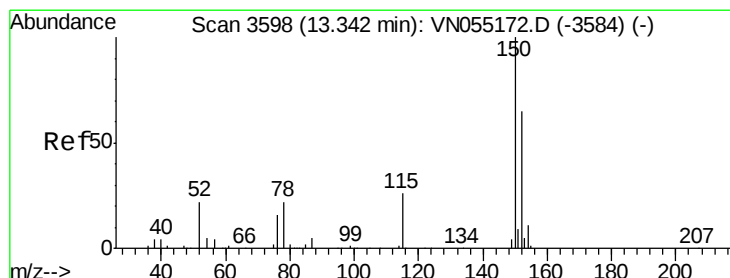
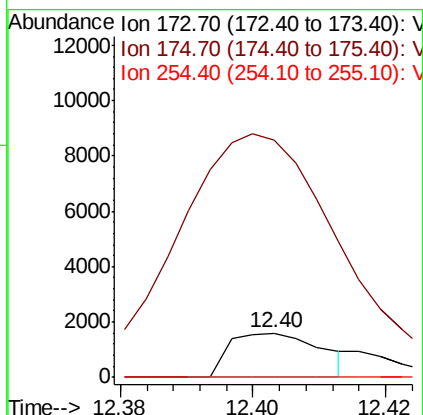
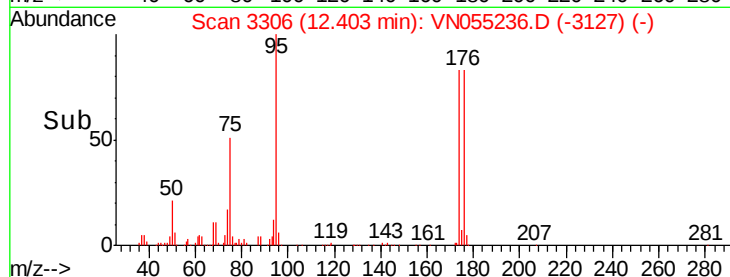
254 0.0 0.1 0.1#



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: VN055236.D

Acq: 25 Apr 2019 10:24

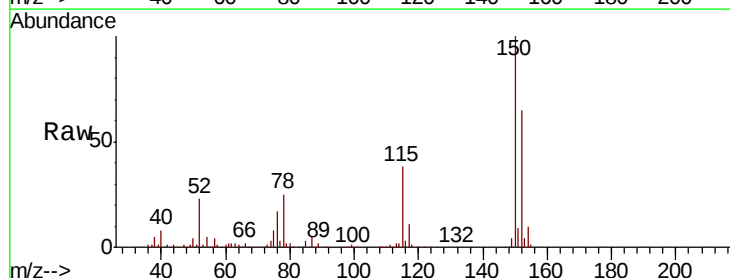
Tgt Ion:152 Resp: 153034

Ion Ratio Lower Upper

152 100

115 59.9 28.9 86.7

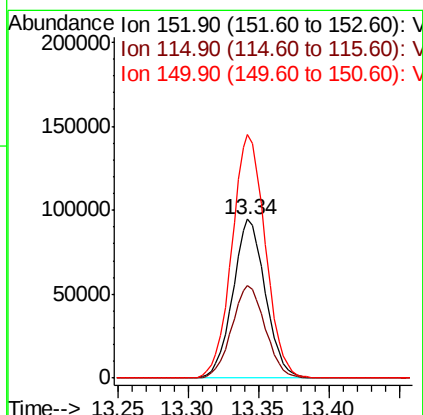
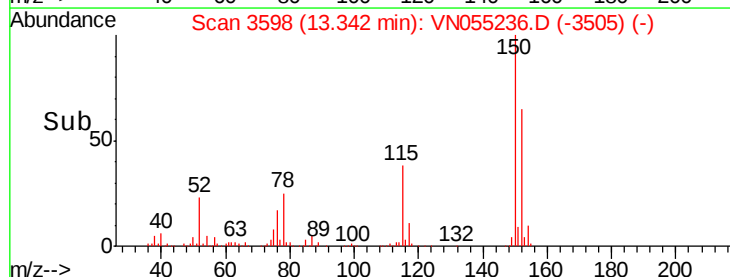
150 157.1 0.0 346.6

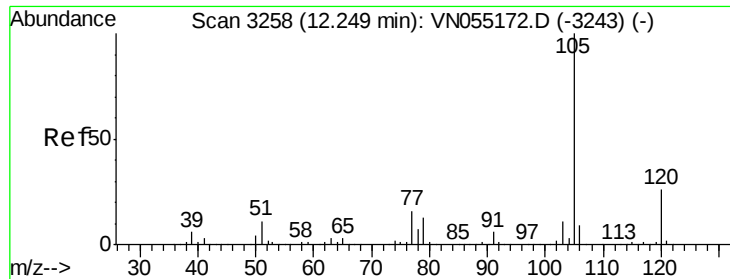


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

Instrument :

MSVOA_N

ClientSampled :

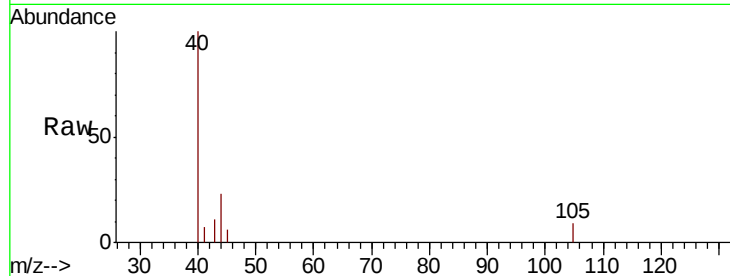
VN0425WBL01

Tot Ion:105 Resp: 292

Ion Ratio Lower Upper

105 100

120 0.0 13.1 39.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

300

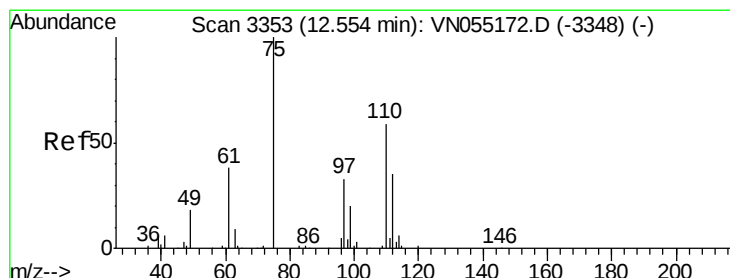
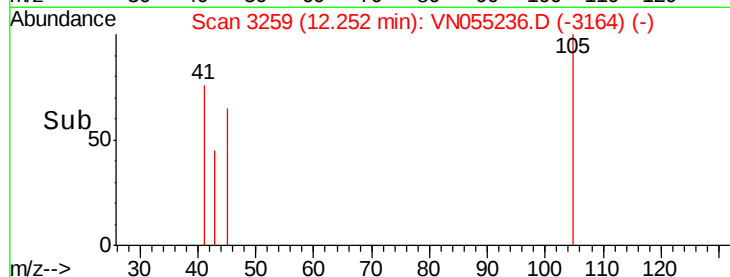
200

100

0

12.24 12.26

Time-->



#76

1,2,3-Trichloropropane

Concen: 38.402 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055236.D

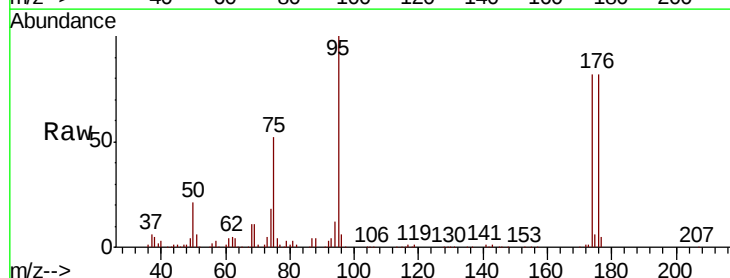
Acq: 25 Apr 2019 10:24

Tgt Ion: 75 Resp: 119226

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

80000

60000

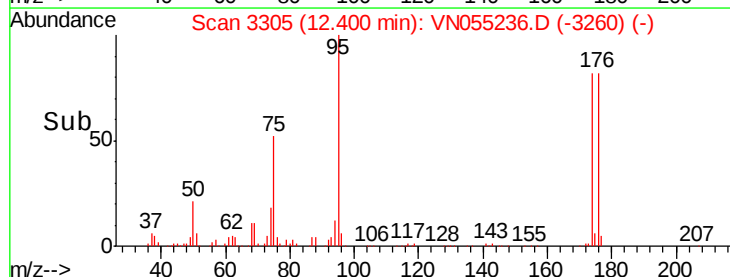
40000

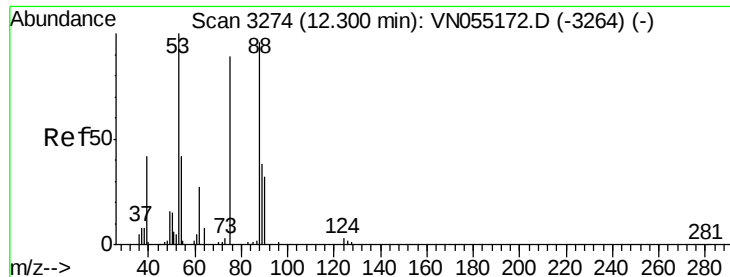
20000

0

12.35 12.40 12.45

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 145.577 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

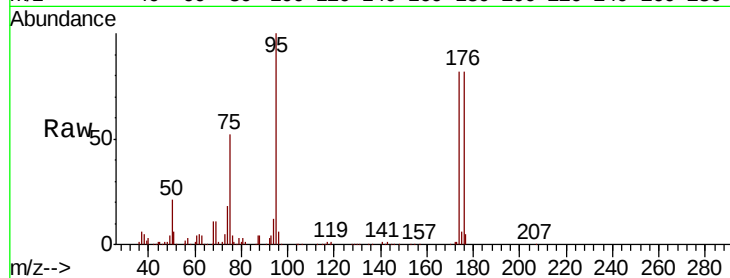
Tot Ion: 75 Resp: 119226

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

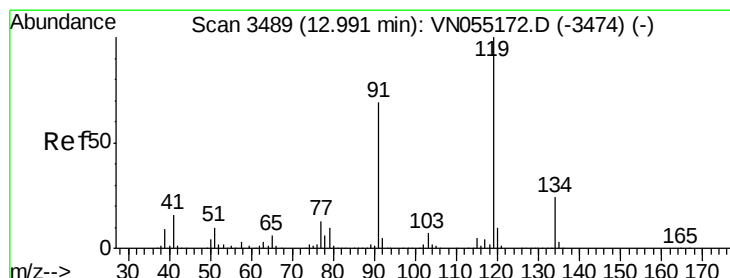
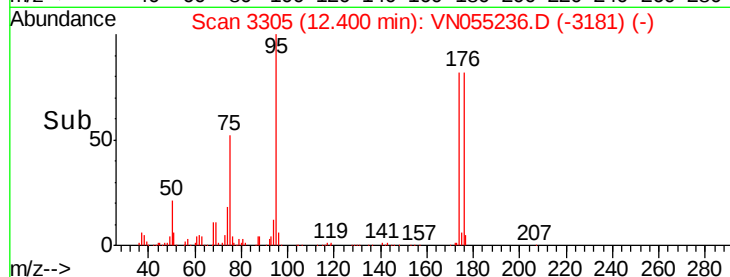
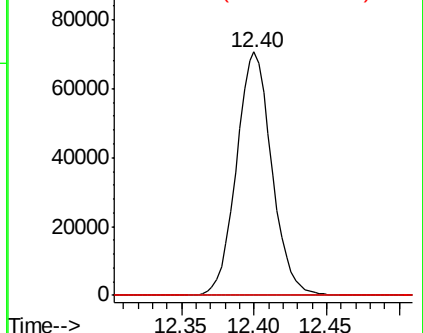
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3487

Delta R.T. -0.01 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

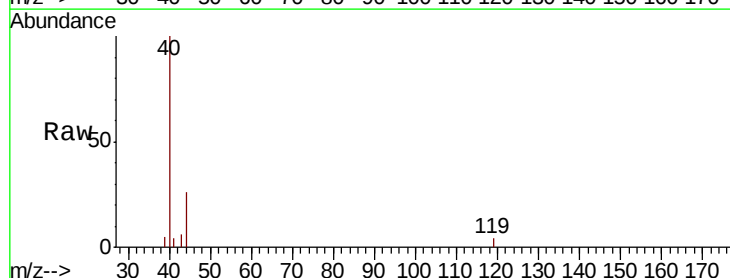
Tgt Ion: 119 Resp: 31

Ion Ratio Lower Upper

119 100

91 0.0 33.8 101.3#

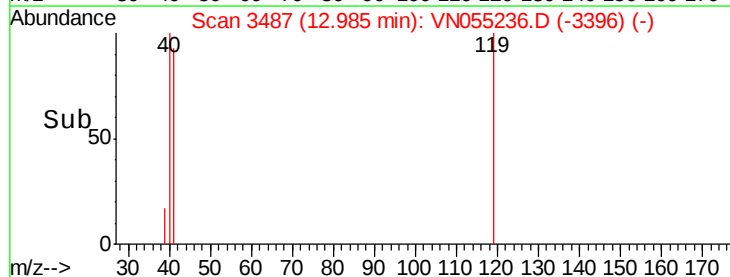
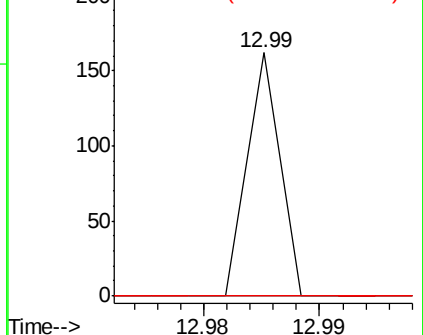
134 0.0 13.2 39.5#

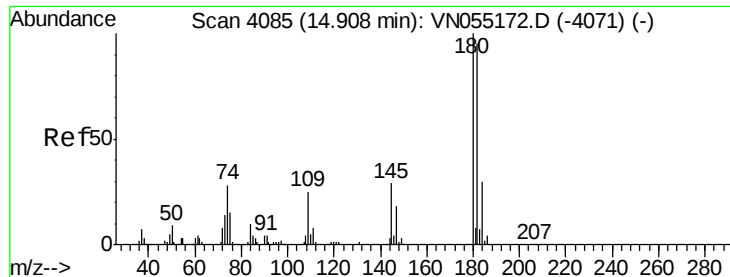


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

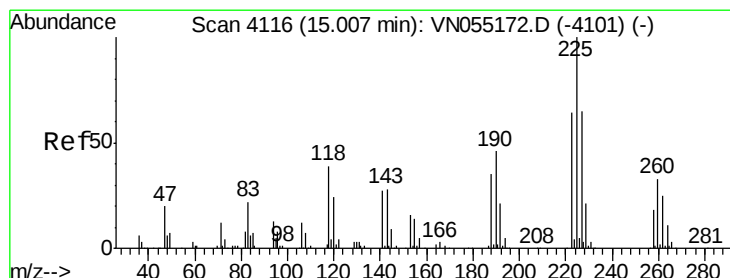
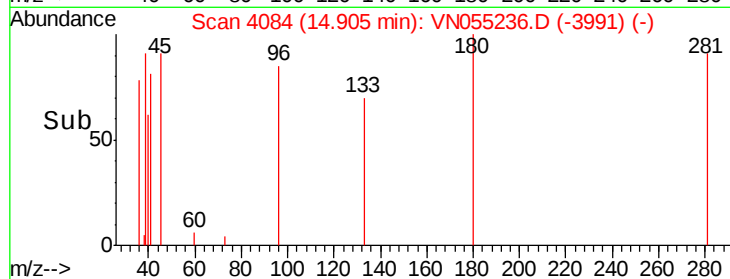
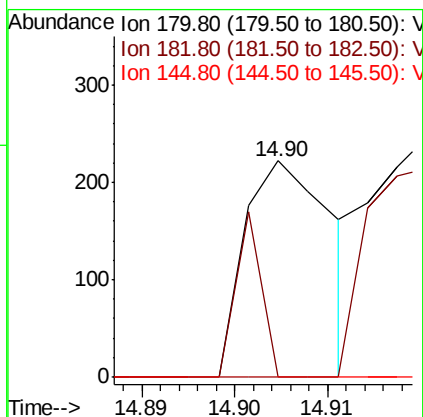
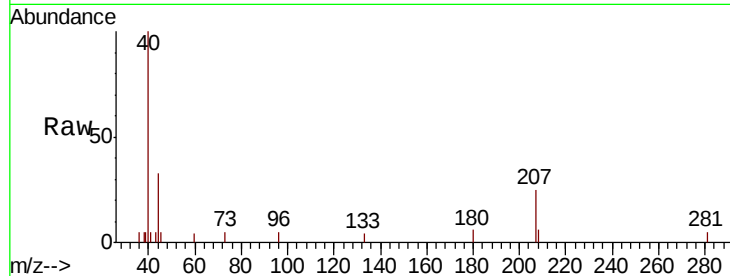




#93
 1,2,4-Trichlorobenzene
 Concen: 2.799 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN055236.D
 Acq: 25 Apr 2019 10:24

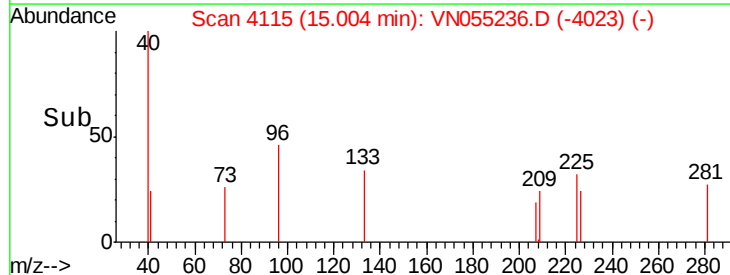
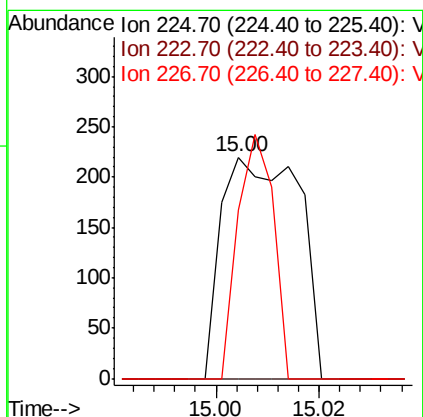
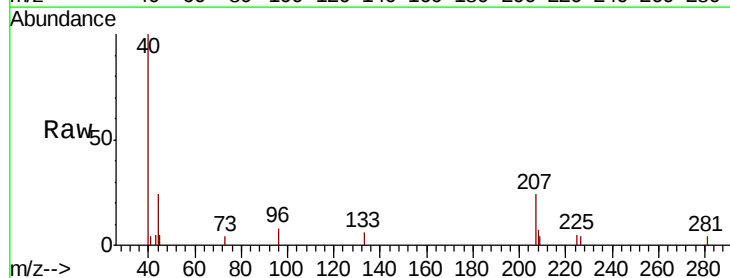
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0425WBL01

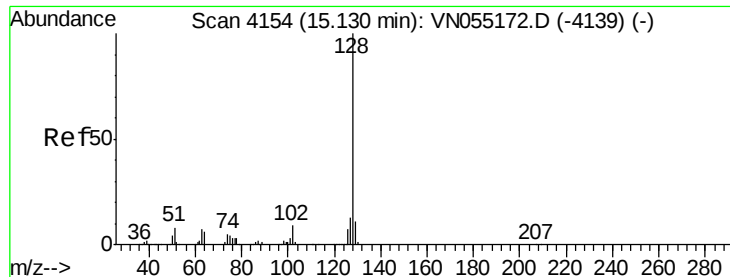
Tot Ion	Ratio	Lower	Upper
180	100		
182	22.8	47.8	143.4#
145	0.0	14.5	43.5#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN055236.D
 Acq: 25 Apr 2019 10:24

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	32.2	96.6#
227	50.7	32.6	98.0





#95

Naphthalene

Concen: 3.563 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

Instrument :

MSVOA_N

ClientSampleId :

VN0425WBL01

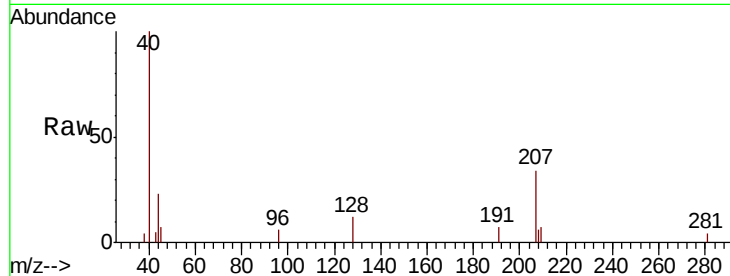
Tot Ion:128 Resp: 912

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.8 13.2#



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

15.13

400

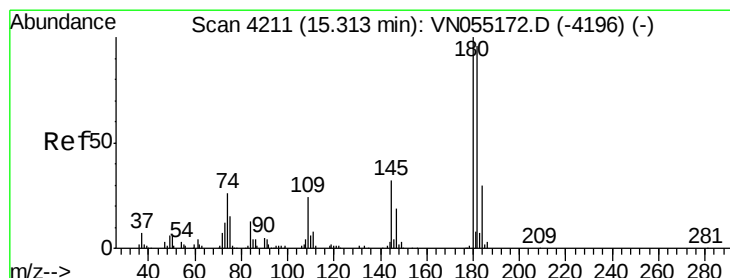
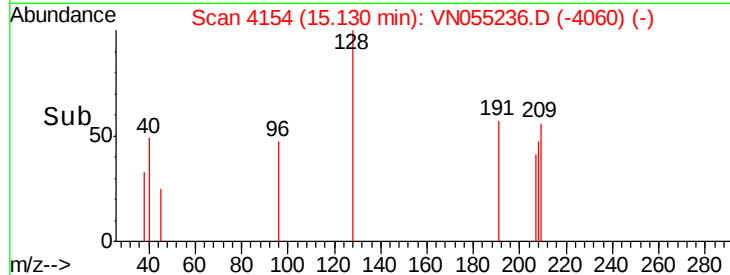
300

200

100

0

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.155 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055236.D

Acq: 25 Apr 2019 10:24

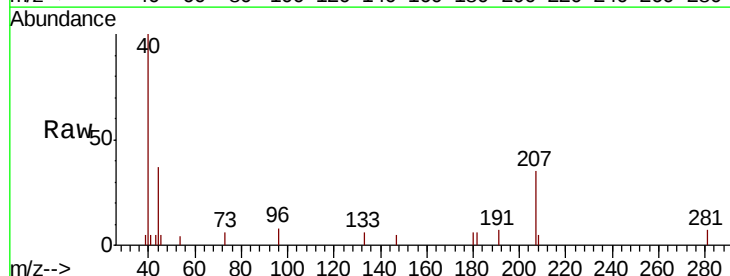
Tgt Ion:180 Resp: 74

Ion Ratio Lower Upper

180 100

182 287.8 47.2 141.6#

145 0.0 15.4 46.1#



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

15.31

200

150

100

50

0

Time-->

