

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056125.D
 Acq On : 8 Jun 2019 2:26
 Operator : JC/SP
 Sample : K3223-03DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-0532-190605DL

Quant Time: Jun 08 05:17:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

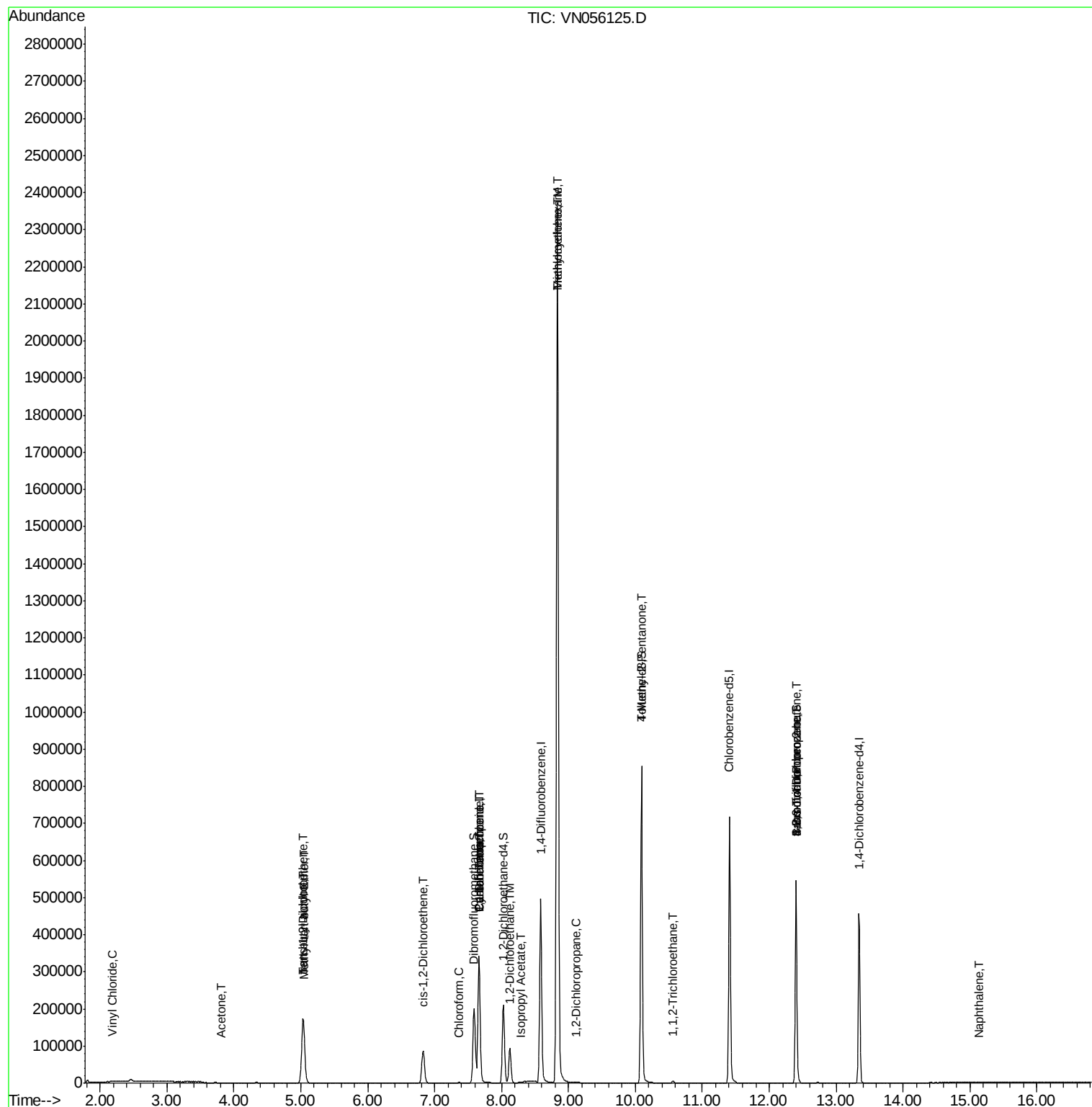
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	324565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	491330	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	462763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	140751	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	173899	53.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.92%	
35) Dibromofluoromethane	7.59	113	155720	51.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.32%	
50) Toluene-d8	10.09	98	638635	55.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.12%	
62) 4-Bromofluorobenzene	12.40	95	195388	49.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.06%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.18	62	1988	0.563	ug/l	94
11) Tert butyl alcohol	5.04	59	4437	7.912	ug/l #	1
16) Acetone	3.81	43	374	0.243	ug/l #	41
19) Methyl tert-butyl Ether	5.05	73	26817	3.088	ug/l	99
21) trans-1,2-Dichloroethene	5.03	96	115674	39.623	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	62221	18.132	ug/l	90
30) Chloroform	7.37	83	1620	0.314	ug/l	91
31) Cyclohexane	7.66	56	4307	0.842	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18864	4.465	ug/l #	47
38) Carbon Tetrachloride	7.66	117	26899	6.906	ug/l #	15
39) Methylcyclohexane	8.83	83	10117	1.922	ug/l #	1
42) 1,2-Dichloroethane	8.12	62	88994	21.561	ug/l	99
43) Isopropyl Acetate	8.28	43	1501	0.246	ug/l #	53
44) Trichloroethene	8.83	130	969631	262.978	ug/l	100
45) 1,2-Dichloropropane	9.12	63	734	0.223	ug/l	94
51) 4-Methyl-2-Pentanone	10.09	43	2465	0.647	ug/l #	1
55) 1,1,2-Trichloroethane	10.56	97	2202	0.696	ug/l	94
71) Bromoform	12.40	173	863	3.048	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	87806	33.903	ug/l #	100
79) 2-Chlorotoluene	12.40	91	465	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	87806	112.905	ug/l #	15
95) Naphthalene	15.14	128	60	3.860	ug/l #	69

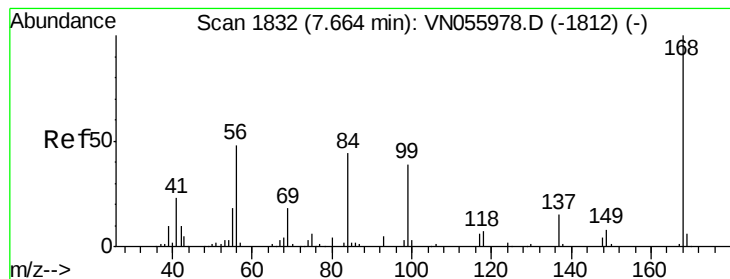
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056125.D

Acq: 8 Jun 2019 2:26

Instrument :

MSVOA_N

ClientSampleId :

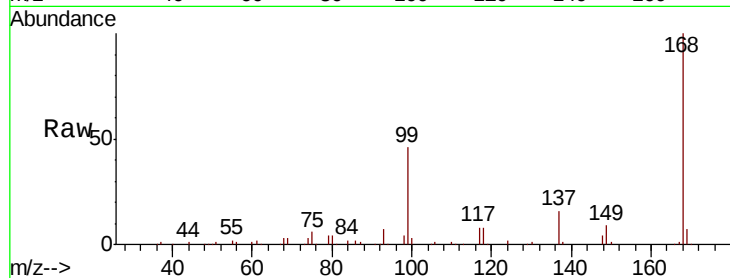
DUP-0532-190605DL

Tot Ion:168 Resp: 324565

Ion Ratio Lower Upper

168 100

99 46.1 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

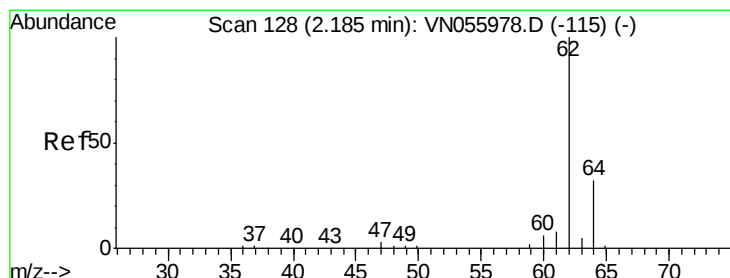
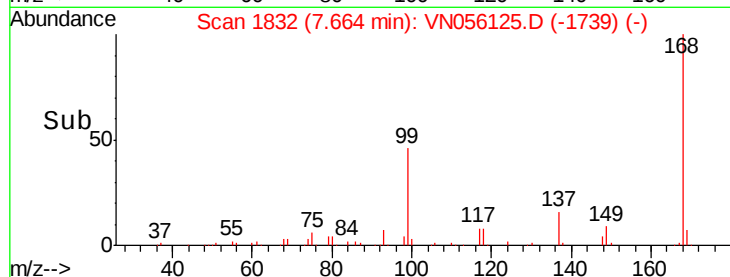
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.563 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056125.D

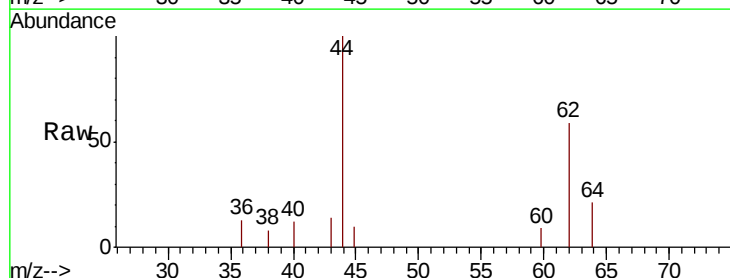
Acq: 8 Jun 2019 2:26

Tgt Ion: 62 Resp: 1988

Ion Ratio Lower Upper

62 100

64 35.4 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

2.18

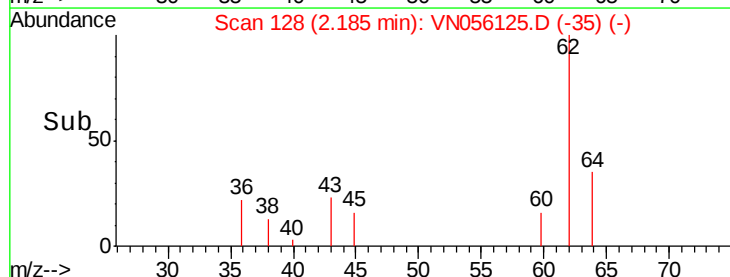
1500

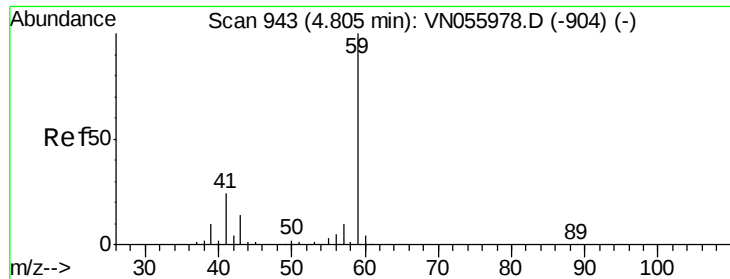
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Time-->

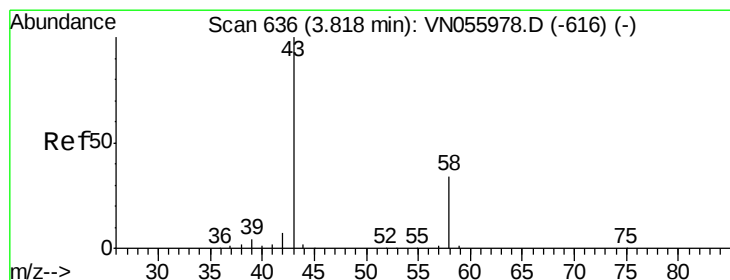
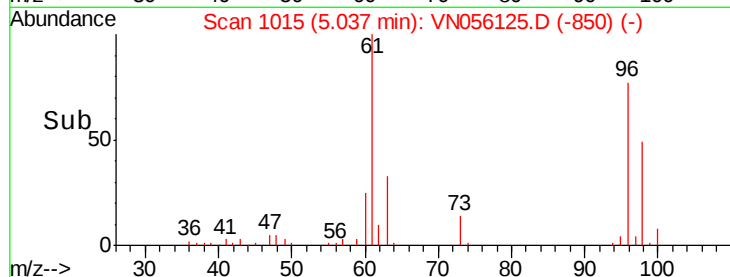
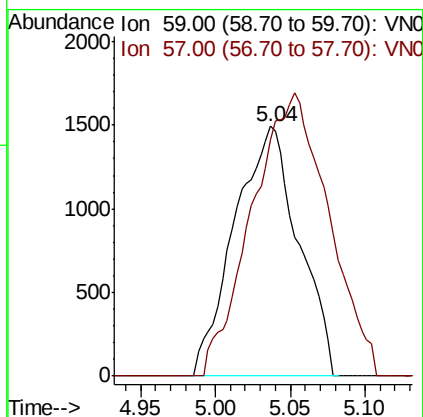
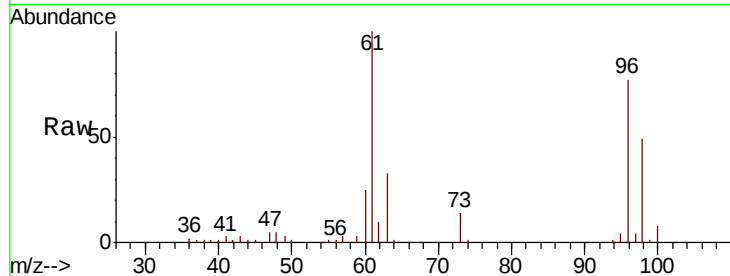




#11
Tert butyl alcohol
Concen: 7.912 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.23 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

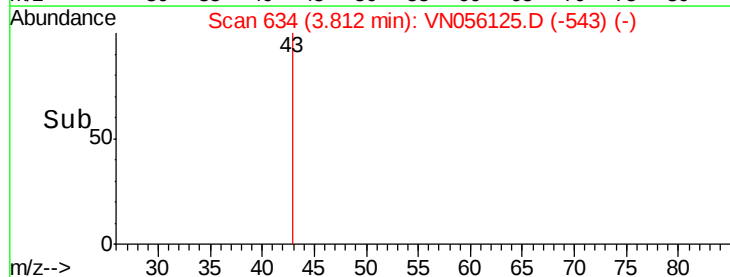
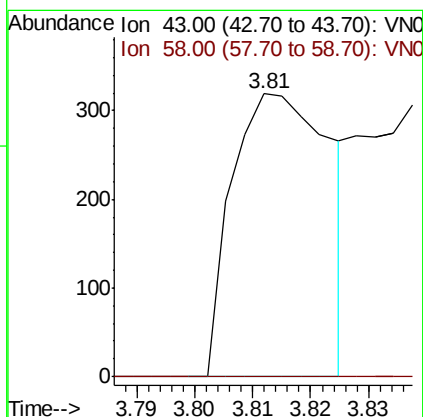
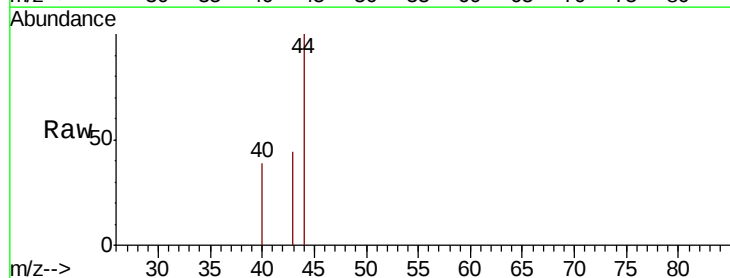
Instrument :
MSVOA_N
ClientSampleId :
DUP-0532-190605DL

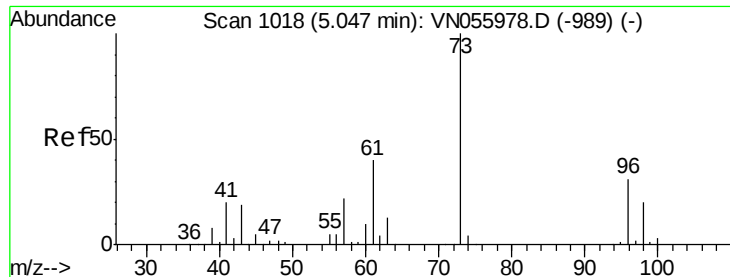
Tot Ion: 59 Resp: 4437
Ion Ratio Lower Upper
59 100
57 130.8 7.8 11.6#



#16
Acetone
Concen: 0.243 ug/l
RT: 3.81 min Scan# 634
Delta R.T. -0.01 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

Tgt Ion: 43 Resp: 374
Ion Ratio Lower Upper
43 100
58 0.0 26.6 39.8#

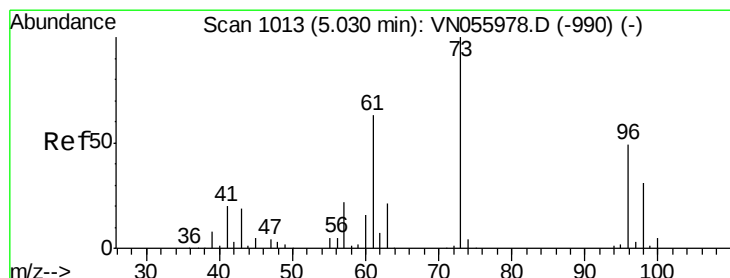
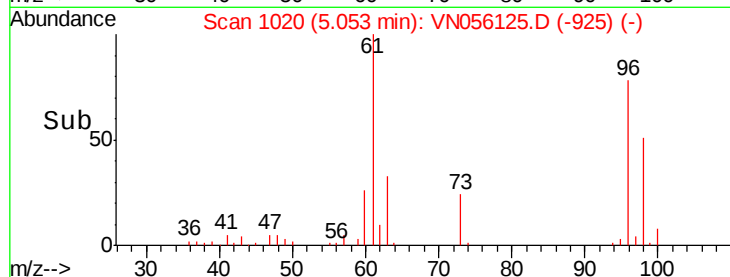
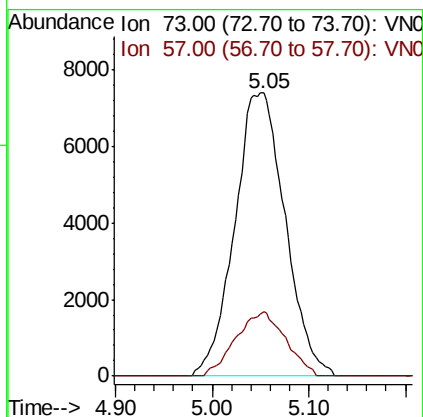
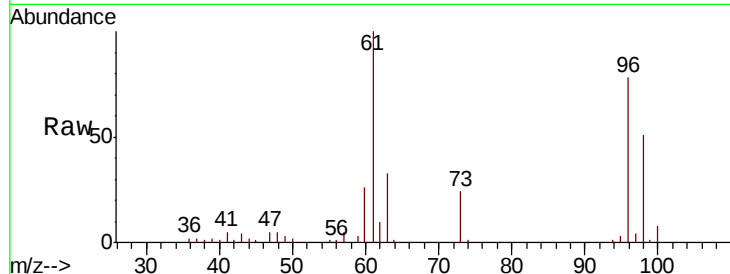




#19
Methvl tert-butvl Ether
Concen: 3.088 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

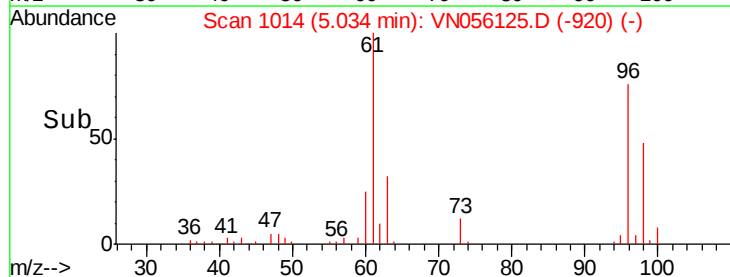
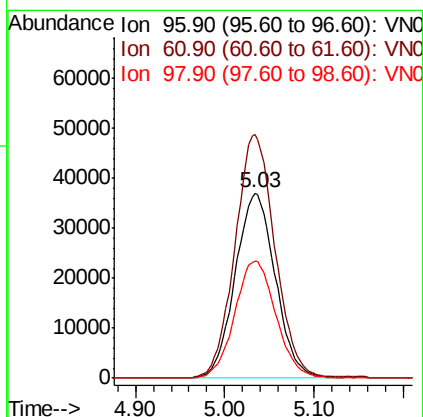
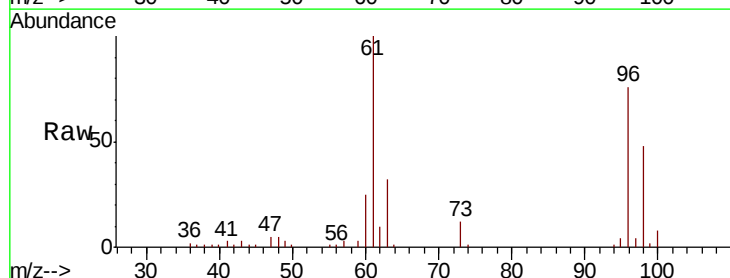
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MSVOA_N
ClientSampleId :
DUP-0532-190605DL

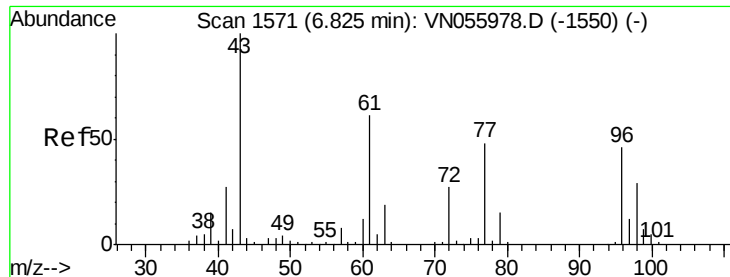
Tot Ion: 73 Resp: 26817
Ion Ratio Lower Upper
73 100
57 22.9 17.8 26.8



#21
trans-1,2-Dichloroethene
Concen: 39.623 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

Tgt Ion: 96 Resp: 115674
Ion Ratio Lower Upper
96 100
61 131.4 107.8 161.8
98 63.0 49.8 74.8





#27

cis-1,2-Dichloroethene

Concen: 18.132 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056125.D

Acq: 8 Jun 2019 2:26

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

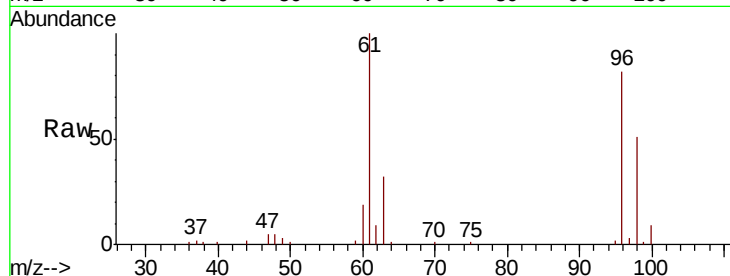
Tot Ion: 96 Resp: 62221

Ion Ratio Lower Upper

96 100

61 120.8 0.0 275.8

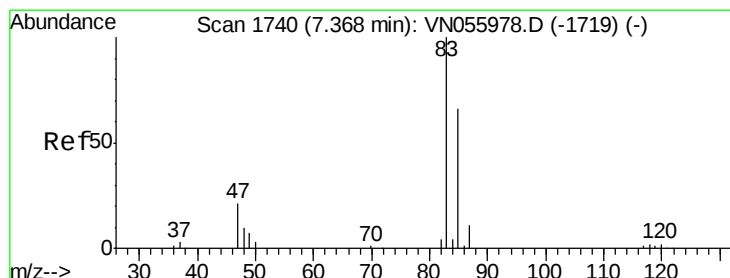
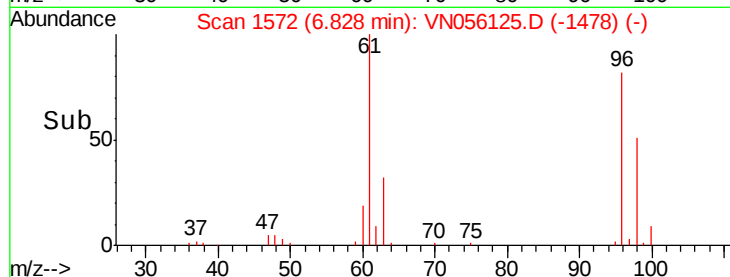
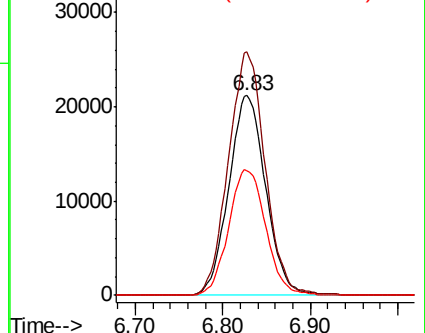
98 63.1 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#30

Chloroform

Concen: 0.314 ug/l

RT: 7.37 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VN056125.D

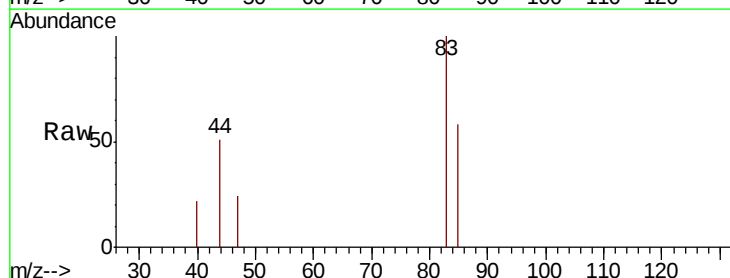
Acq: 8 Jun 2019 2:26

Tgt Ion: 83 Resp: 1620

Ion Ratio Lower Upper

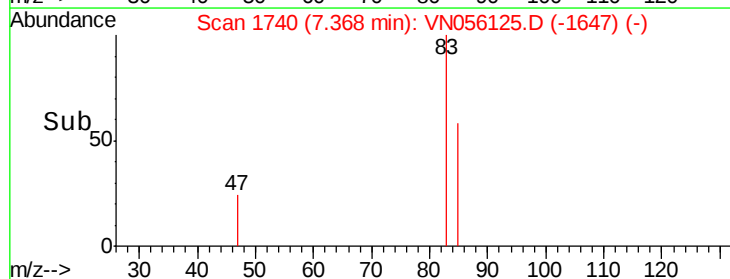
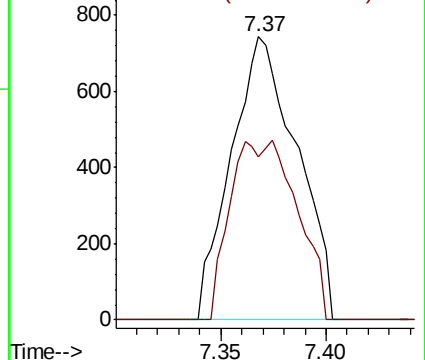
83 100

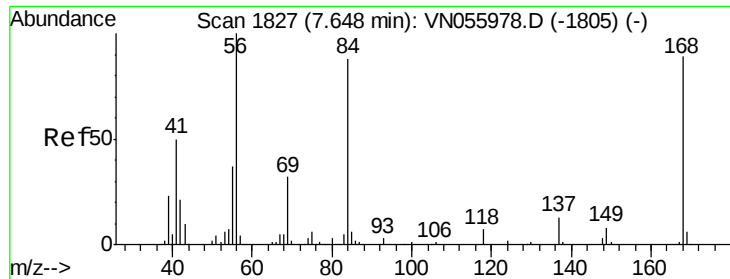
85 57.6 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 84.90 (84.60 to 85.60): VNC

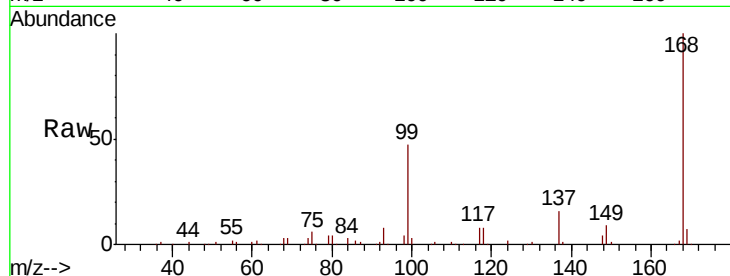




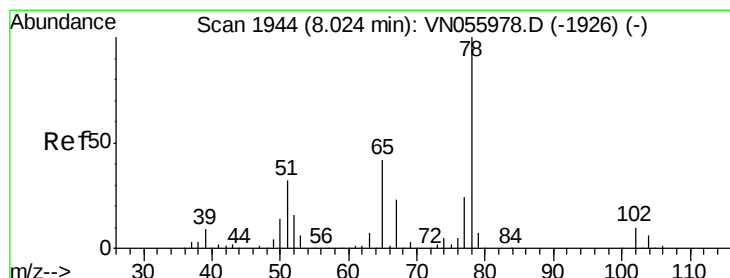
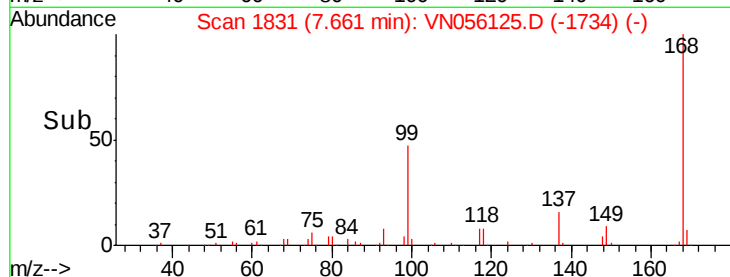
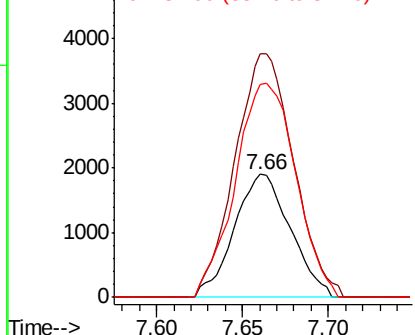
#31
Cyclohexane
Concen: 0.842 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

Instrument :
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DUP-0532-190605DL

Tot Ion: 56 Resp: 4307
Ion Ratio Lower Upper
56 100
69 198.3 25.6 38.4#
84 174.0 67.4 101.0#

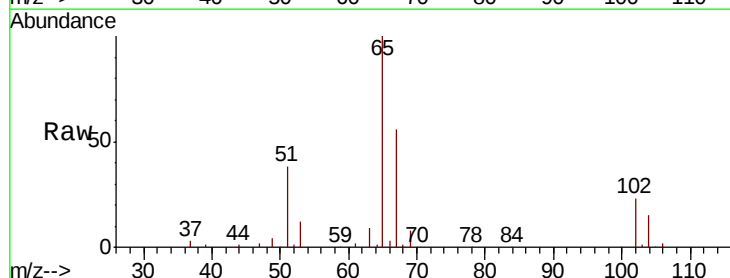


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

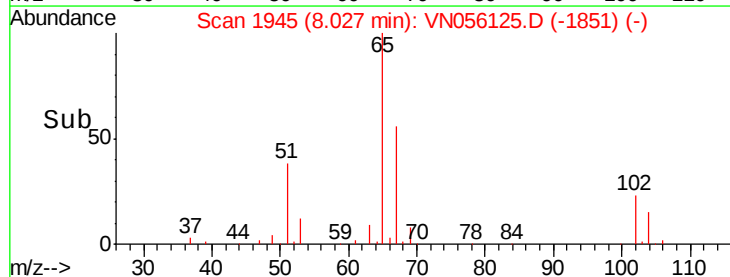
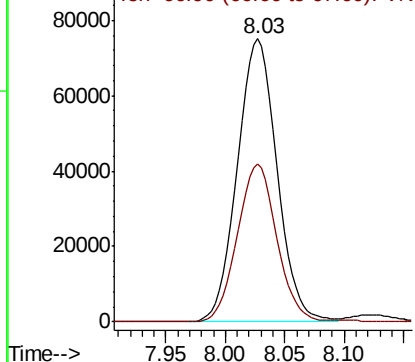


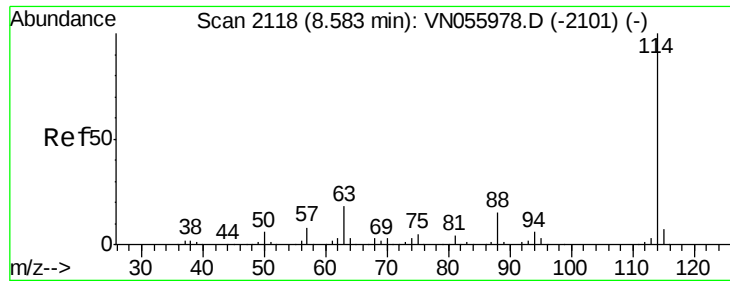
#33
1,2-Dichloroethane-d4
Concen: 53.961 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

Tgt Ion: 65 Resp: 173899
Ion Ratio Lower Upper
65 100
67 55.4 0.0 109.2



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

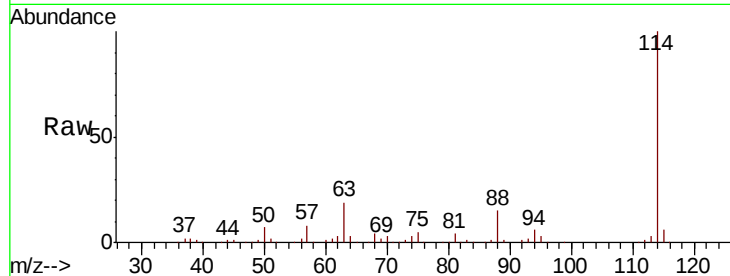




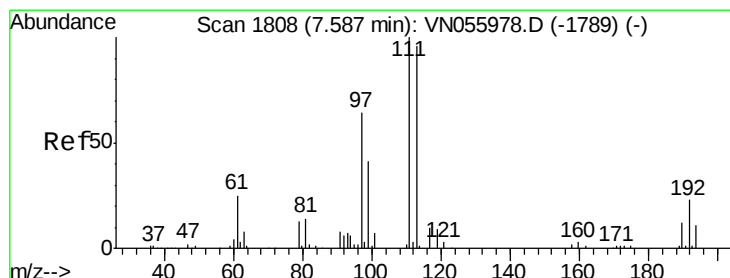
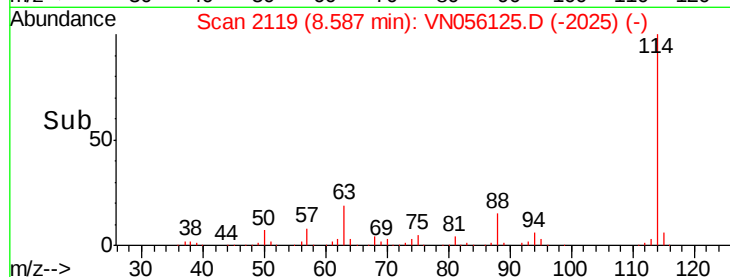
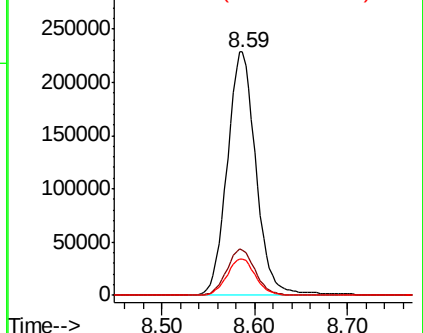
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056125.D
 Acq: 8 Jun 2019 2:26

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-0532-190605DL

Tot Ion:114 Resp: 491330
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 15.1 0.0 31.0

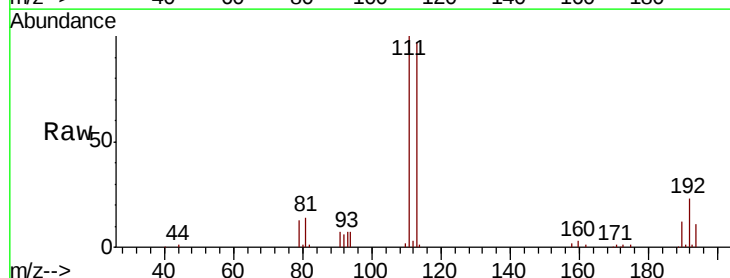


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

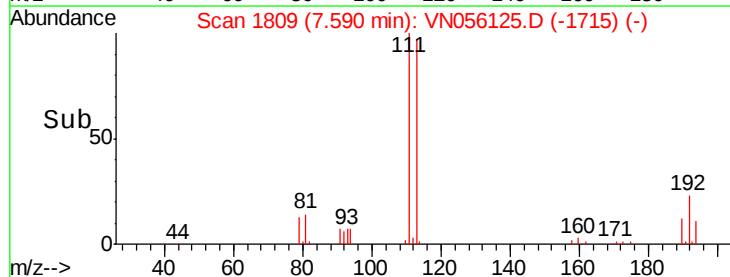
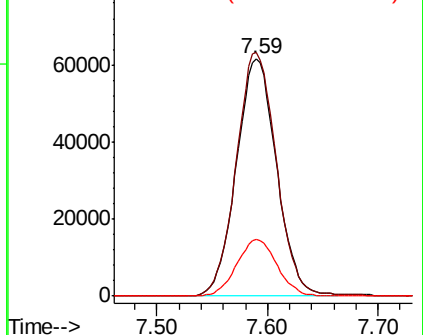


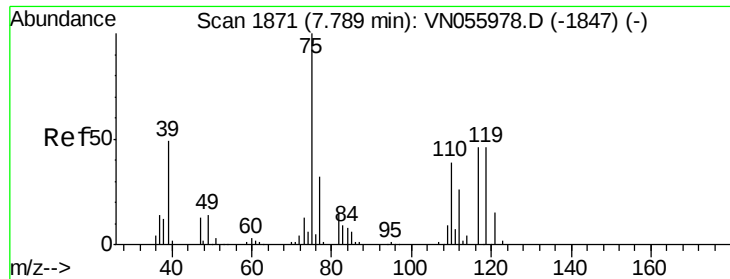
#35
 Dibromofluoromethane
 Concen: 51.657 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056125.D
 Acq: 8 Jun 2019 2:26

Tgt Ion:113 Resp: 155720
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.9 122.9
 192 23.9 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

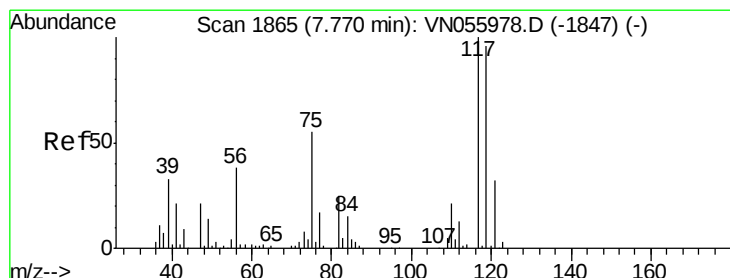
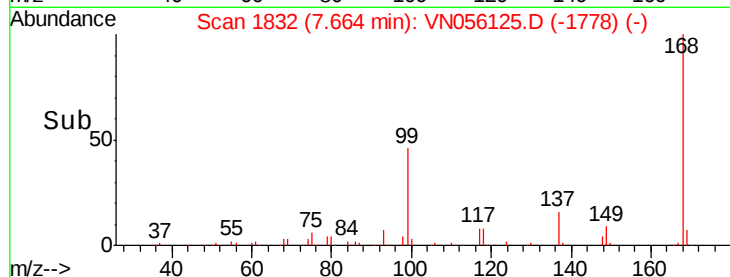
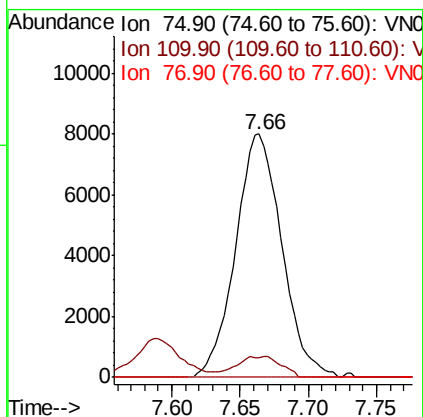
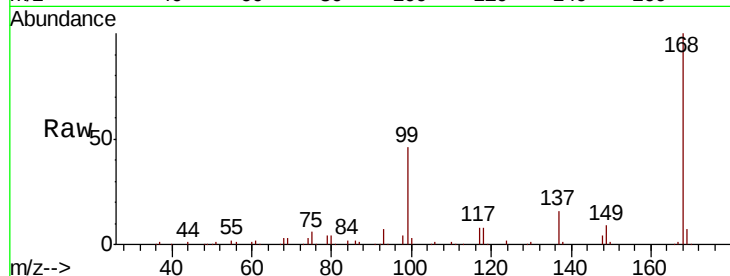




#36
 1,1-Dichloropropene
 Concen: 4.465 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056125.D
 Acq: 8 Jun 2019 2:26

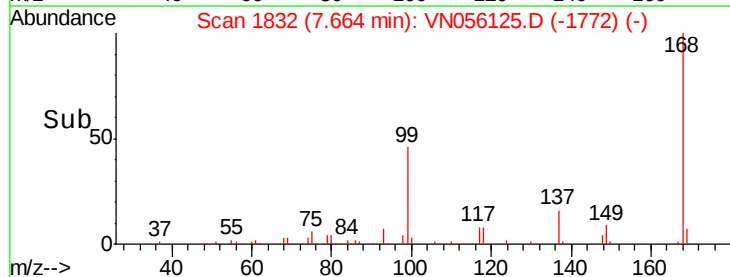
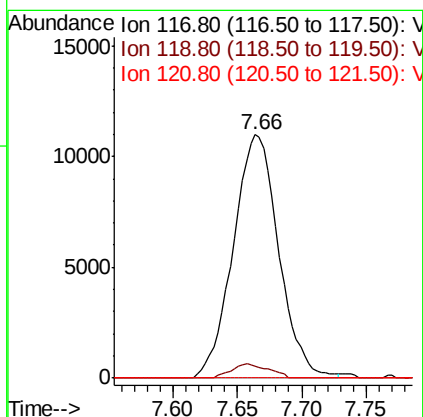
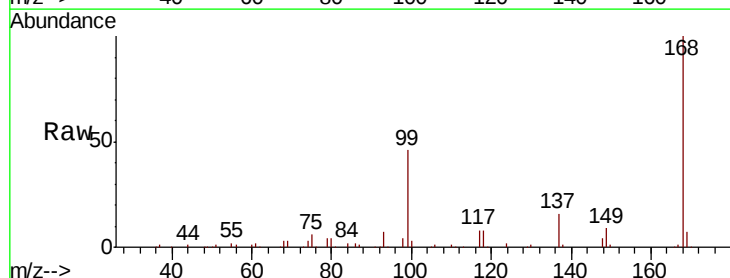
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-0532-190605DL

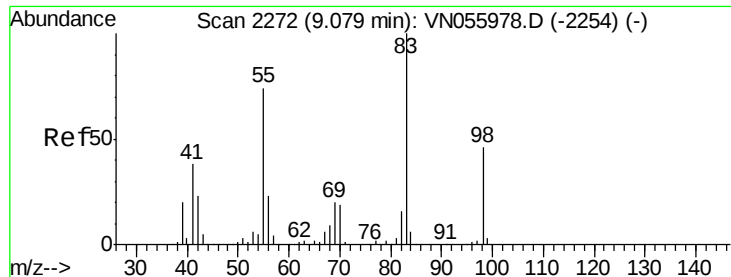
Tot Ion	75	Resp	18864
Ion Ratio	Lower	Upper	
75	100		
110	8.4	19.0	57.0#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.906 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056125.D
 Acq: 8 Jun 2019 2:26

Tgt Ion	117	Resp	26899
Ion Ratio	Lower	Upper	
117	100		
119	4.9	79.0	118.6#
121	0.0	24.7	37.1#

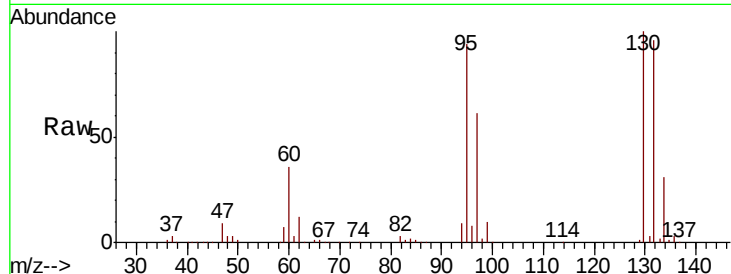




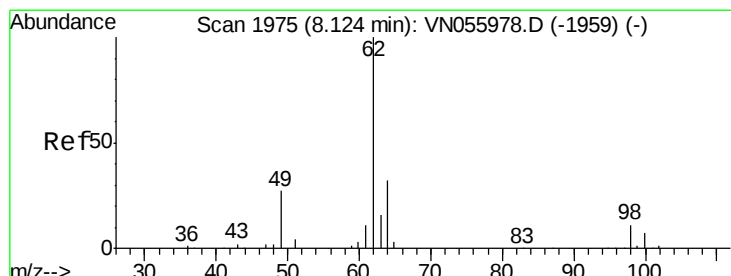
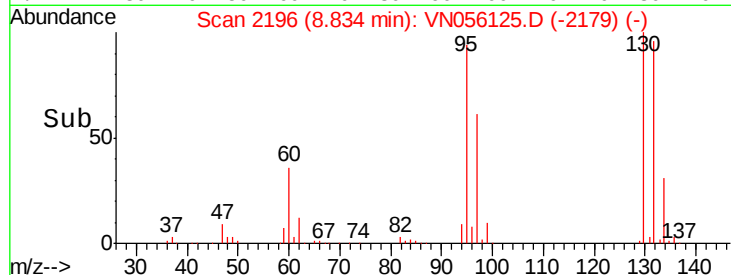
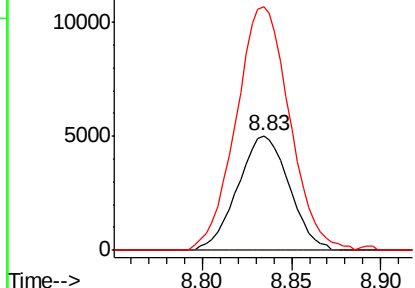
#39
Methylcyclohexane
Concen: 1.922 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

Instrument :
MSVOA_N
ClientSampleId :
DUP-0532-190605DL

Tot Ion: 83 Resp: 10117
Ion Ratio Lower Upper
83 100
55 0.0 59.3 88.9#
98 212.6 36.6 54.8#

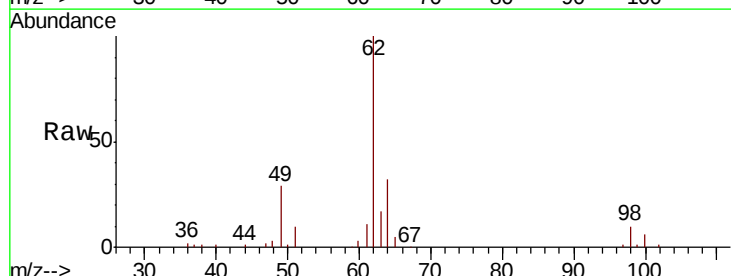


Abundance Ion 83.00 (82.70 to 83.70): VNC
Ion 55.00 (54.70 to 55.70): VNC
Ion 98.00 (97.70 to 98.70): VNC

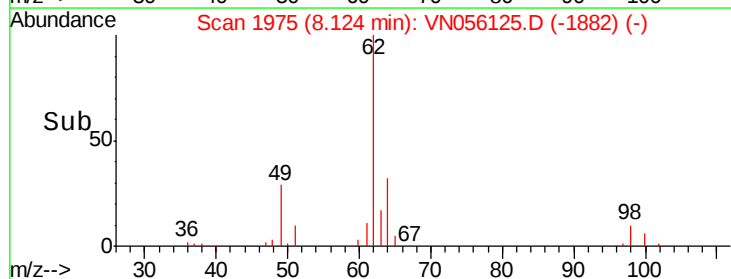
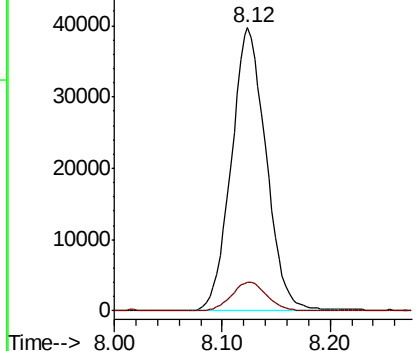


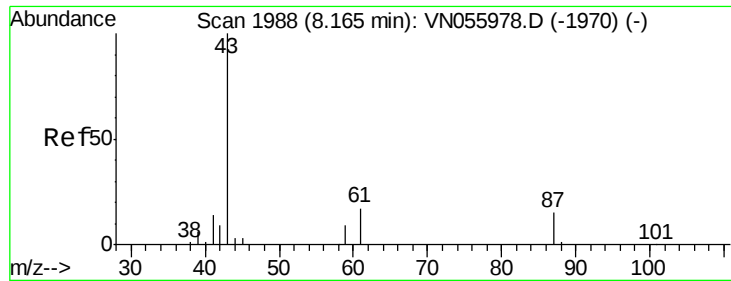
#42
1,2-Dichloroethane
Concen: 21.561 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

Tgt Ion: 62 Resp: 88994
Ion Ratio Lower Upper
62 100
98 10.3 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 0.246 ug/l

RT: 8.28 min Scan# 2024

Delta R.T. 0.12 min

Lab File: VN056125.D

Acq: 8 Jun 2019 2:26

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

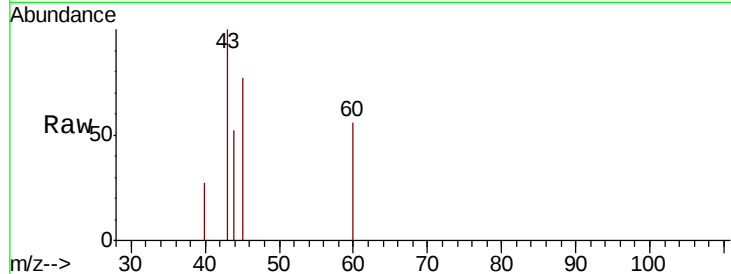
Tot Ion: 43 Resp: 1501

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

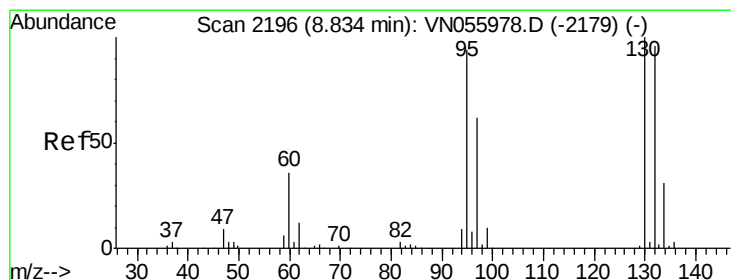
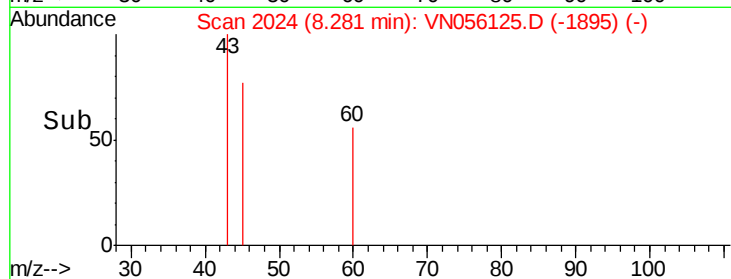
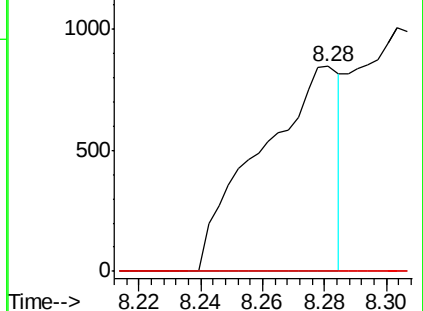
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)



#44

Trichloroethene

Concen: 262.978 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056125.D

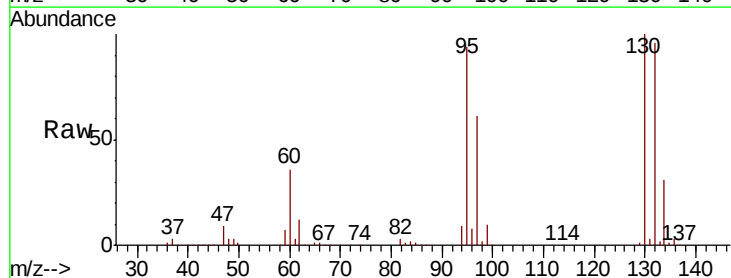
Acq: 8 Jun 2019 2:26

Tgt Ion: 130 Resp: 969631

Ion Ratio Lower Upper

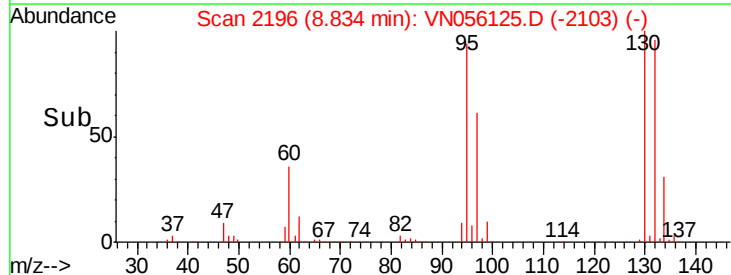
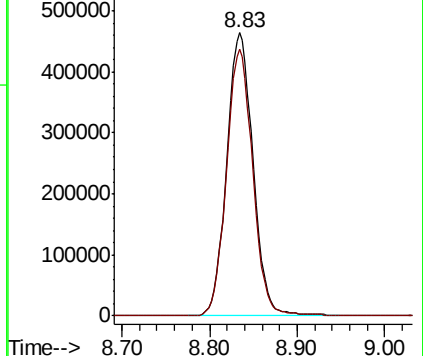
130 100

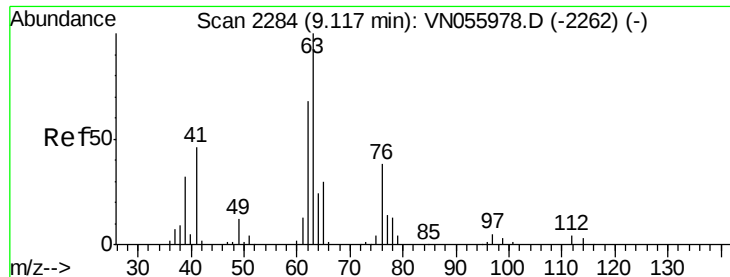
95 94.2 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055978.D (-2179) (-)





#45

1,2-Dichloropropane

Concen: 0.223 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN056125.D

Acq: 8 Jun 2019 2:26

Instrument :

MSVOA_N

ClientSampleId :

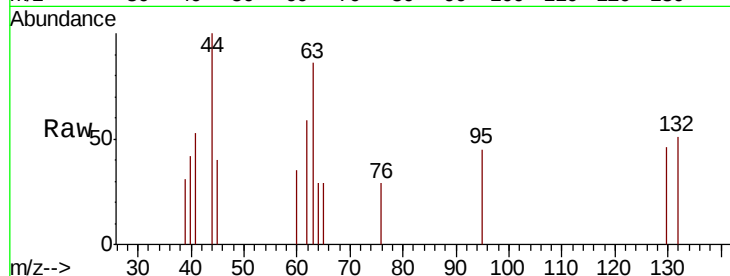
DUP-0532-190605DL

Tot Ion: 63 Resp: 734

Ion Ratio Lower Upper

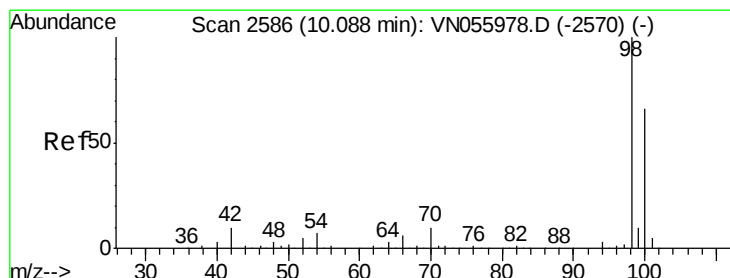
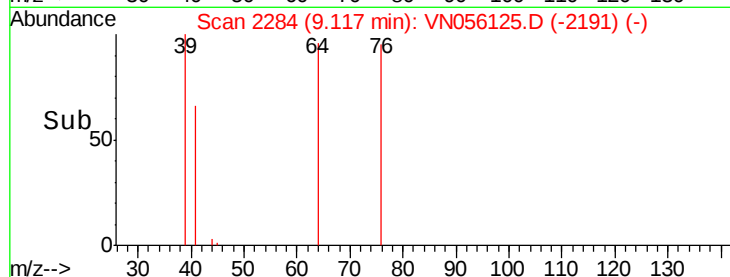
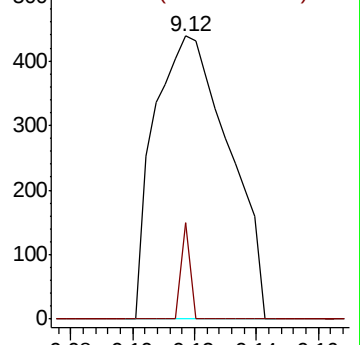
63 100

65 34.2 24.6 36.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#50

Toluene-d8

Concen: 55.056 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056125.D

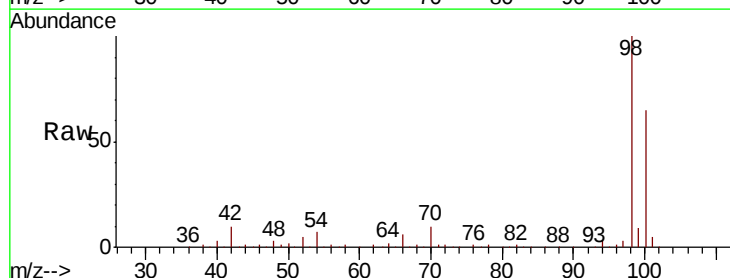
Acq: 8 Jun 2019 2:26

Tgt Ion: 98 Resp: 638635

Ion Ratio Lower Upper

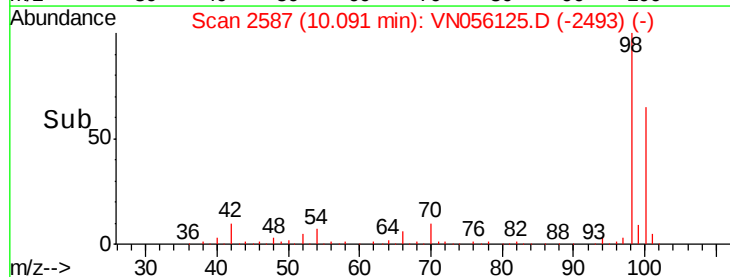
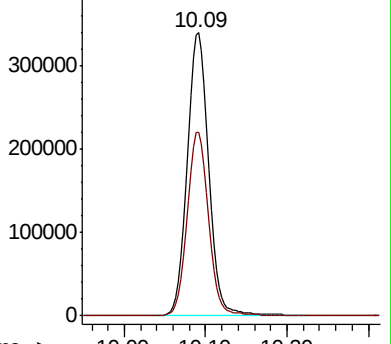
98 100

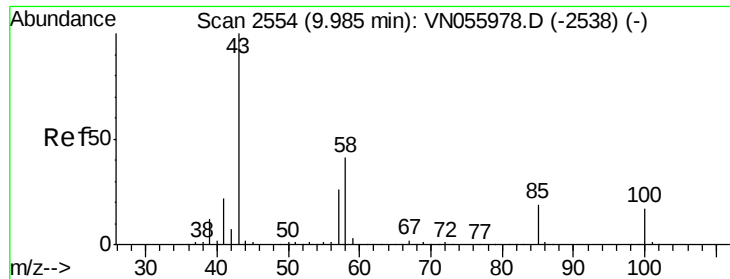
100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

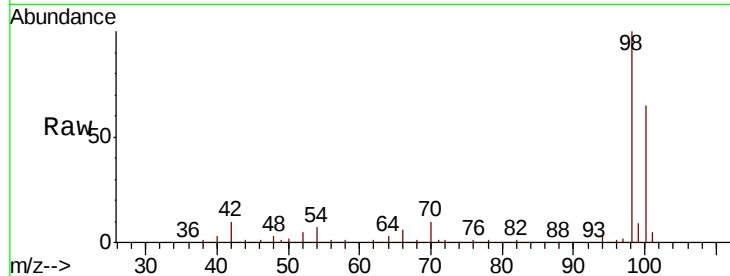




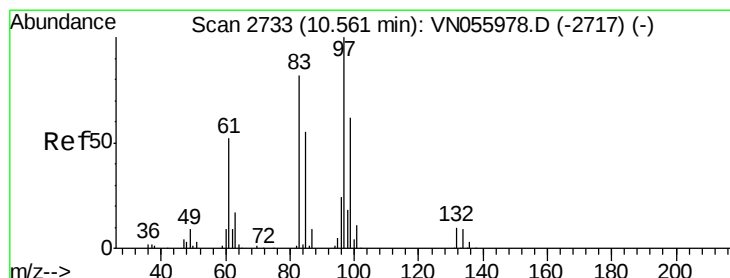
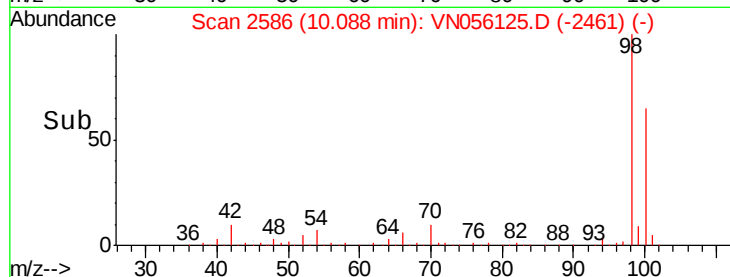
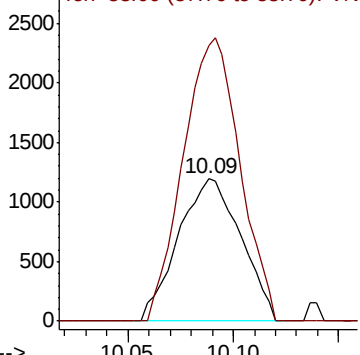
#51
4-Methyl-2-Pentanone
Concen: 0.647 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.10 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

Instrument :
MSVOA_N
ClientSampleId :
DUP-0532-190605DL

Tot Ion: 43 Resp: 2465
Ion Ratio Lower Upper
43 100
58 180.4 32.1 48.1#

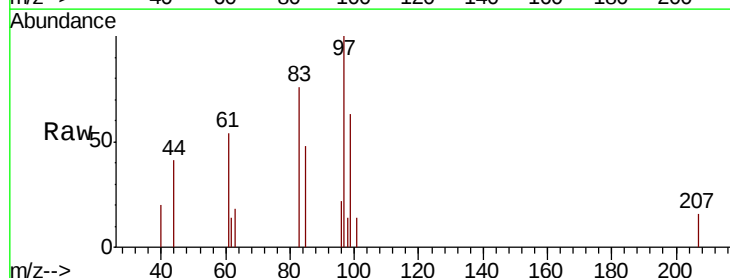


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

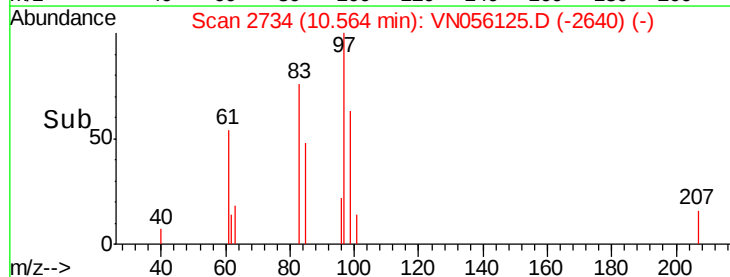
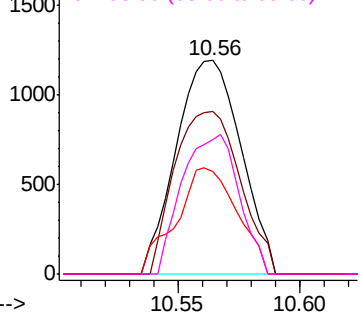


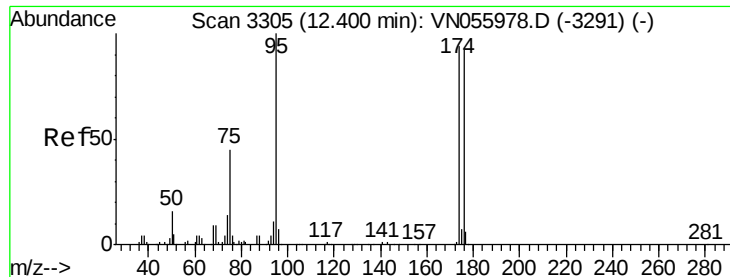
#55
1,1,2-Trichloroethane
Concen: 0.696 ug/l
RT: 10.56 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN056125.D
Acq: 8 Jun 2019 2:26

Tgt Ion: 97 Resp: 2202
Ion Ratio Lower Upper
97 100
83 76.2 67.0 100.6
85 47.9 44.0 66.0
99 62.8 50.6 75.8



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 98.90 (98.60 to 99.60): VN0





#62

4-Bromofluorobenzene

Concen: 49.531 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056125.D

Acq: 8 Jun 2019 2:26

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

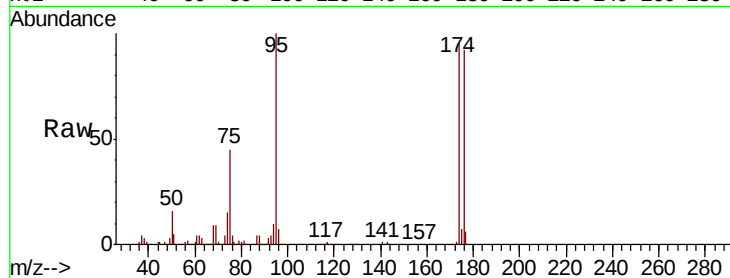
Tot Ion: 95 Resp: 195388

Ion Ratio Lower Upper

95 100

174 96.3 0.0 191.0

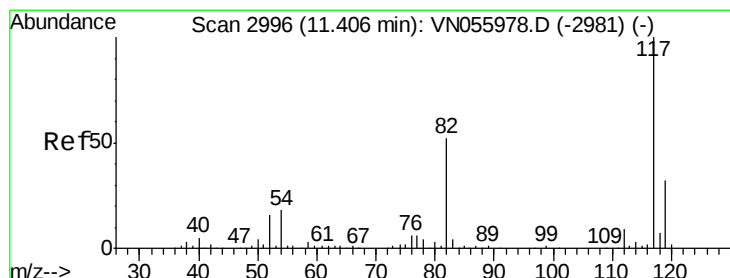
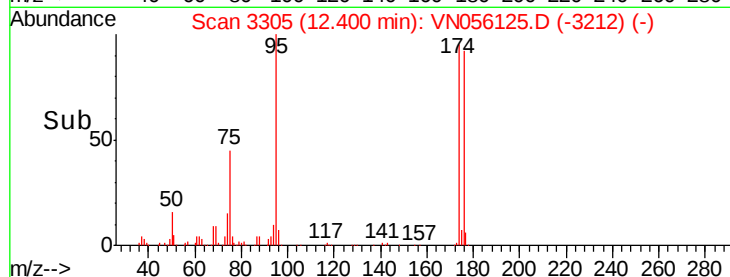
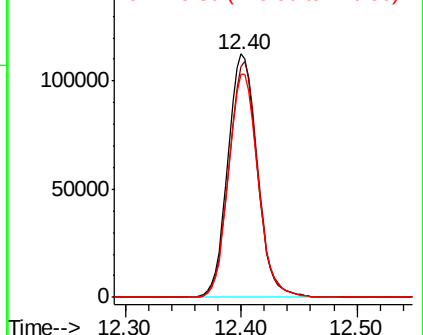
176 92.0 0.0 185.2



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: VN056125.D

Acq: 8 Jun 2019 2:26

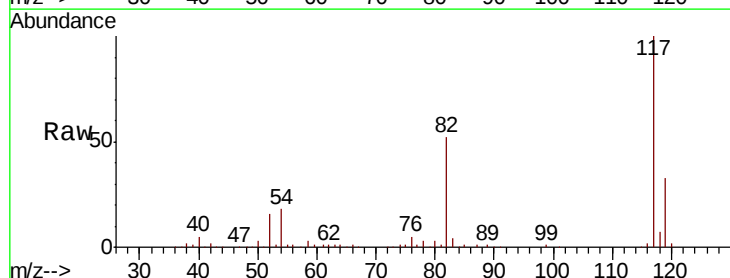
Tgt Ion: 117 Resp: 462763

Ion Ratio Lower Upper

117 100

82 51.5 41.8 62.8

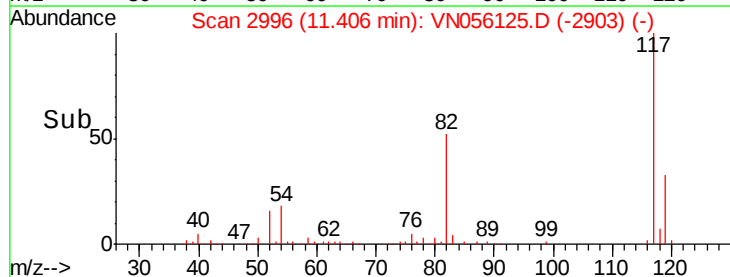
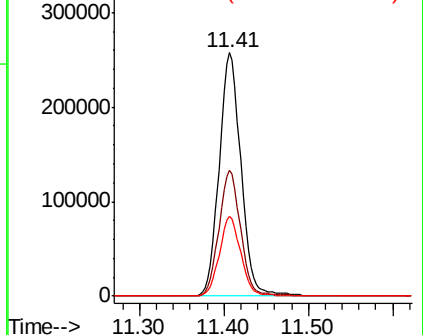
119 32.9 25.4 38.0

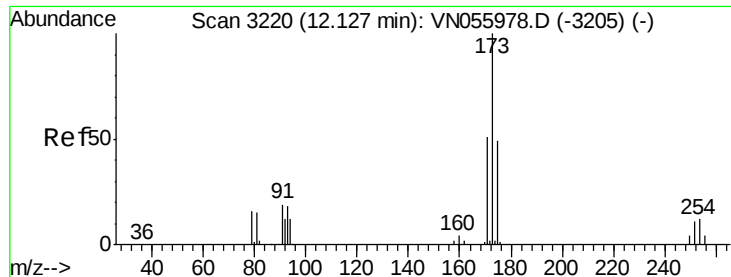


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 3.048 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056125.D

Acq: 8 Jun 2019 2:26

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

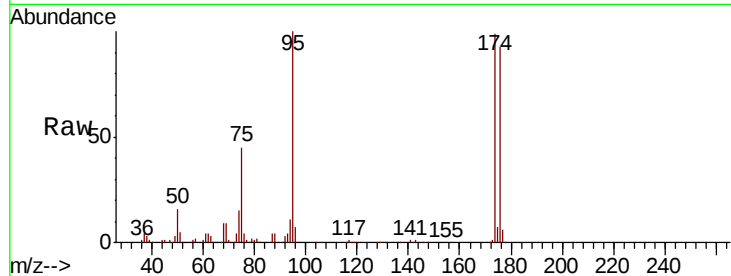
Tot Ion:173 Resp: 863

Ion Ratio Lower Upper

173 100

175 1363.0 24.3 72.8#

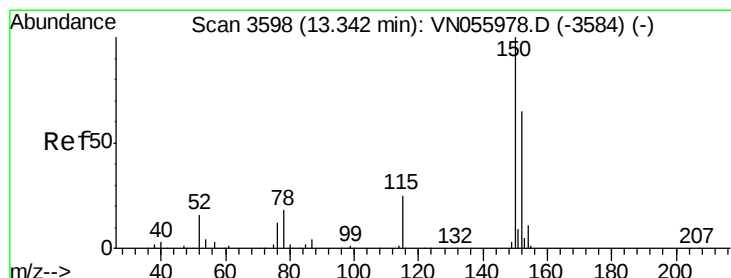
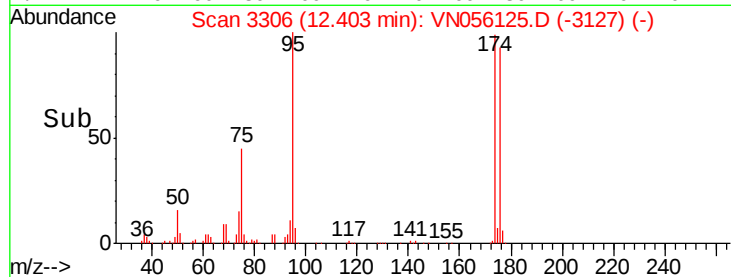
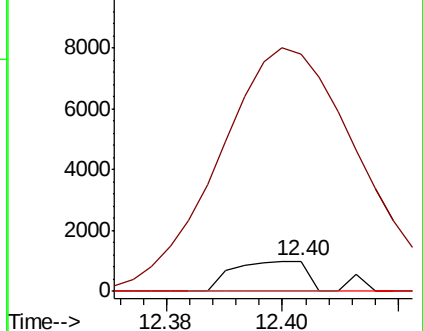
254 0.0 0.0 0.0



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN056125.D

Acq: 8 Jun 2019 2:26

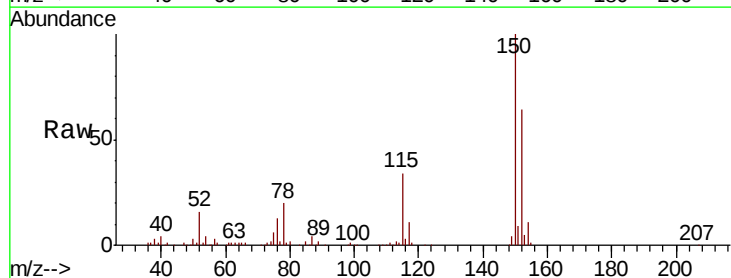
Tgt Ion:152 Resp: 140751

Ion Ratio Lower Upper

152 100

115 53.4 27.0 81.0

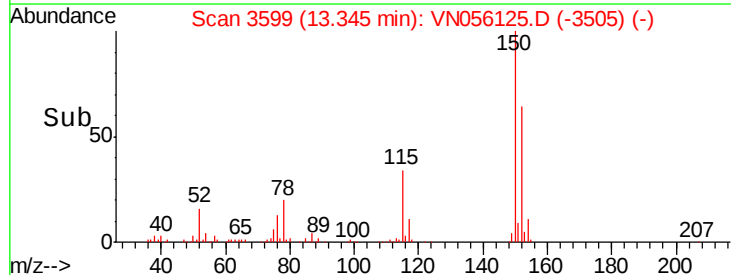
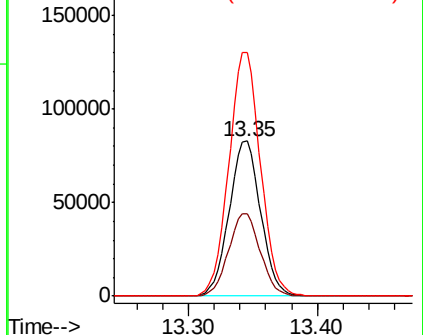
150 157.1 0.0 343.2

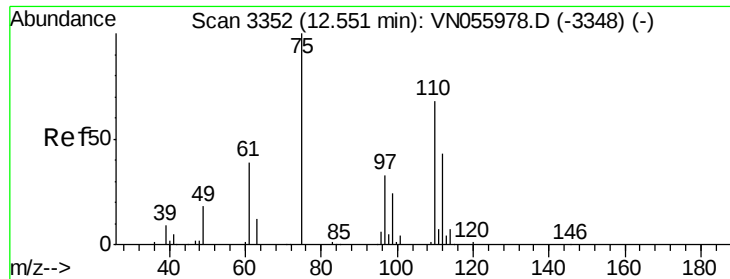


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.903 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056125.D

Acq: 8 Jun 2019 2:26

Instrument :

MSVOA_N

ClientSampleId :

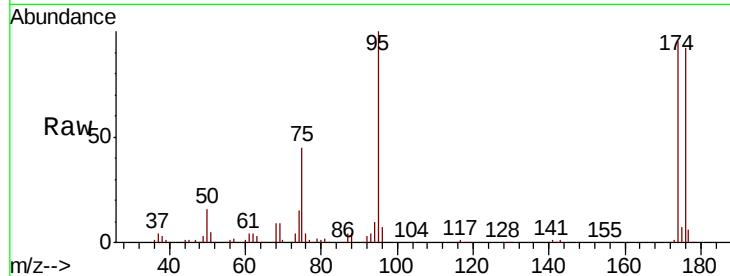
DUP-0532-190605DL

Tot Ion: 75 Resp: 87806

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

12.40

50000

40000

30000

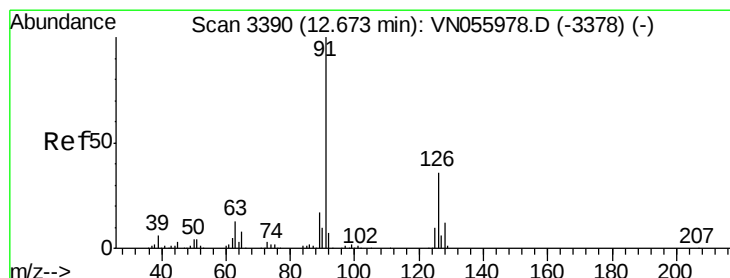
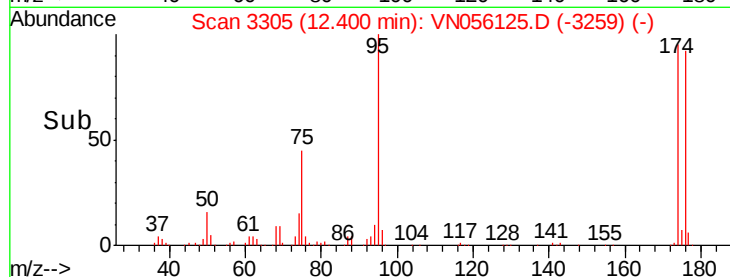
20000

10000

0

Time-->

12.35 12.40 12.45 12.50



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056125.D

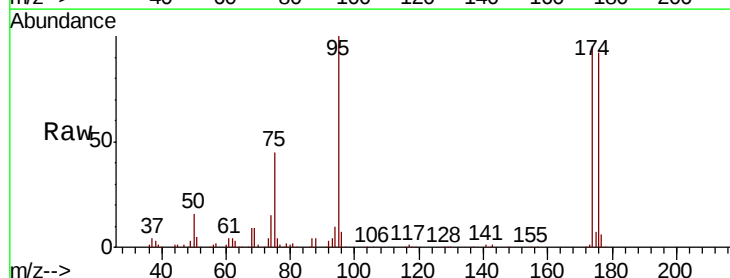
Acq: 8 Jun 2019 2:26

Tgt Ion: 91 Resp: 465

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

12.40

400

300

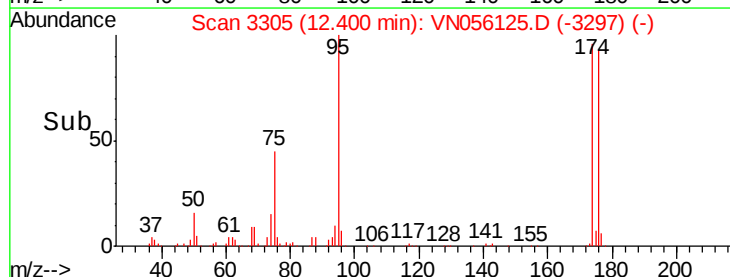
200

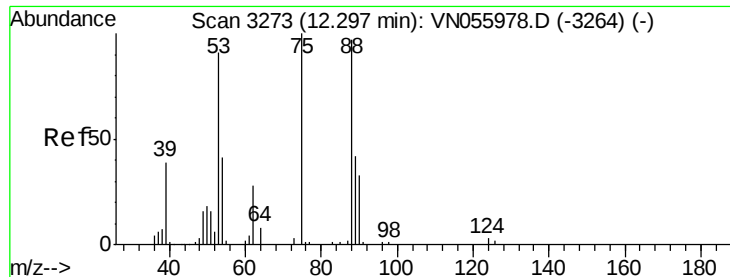
100

0

Time-->

12.38 12.40 12.42





#81

trans-1,4-Dichloro-2-butene

Concen: 112.905 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056125.D

Acq: 8 Jun 2019 2:26

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

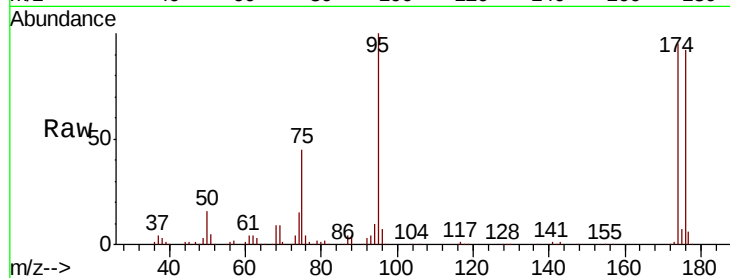
Tot Ion: 75 Resp: 87806

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

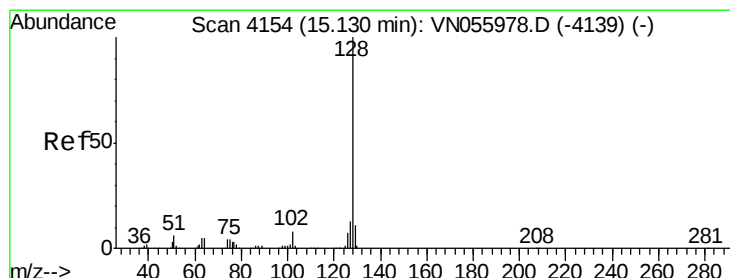
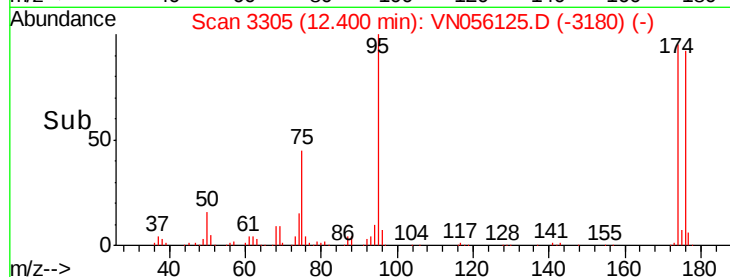
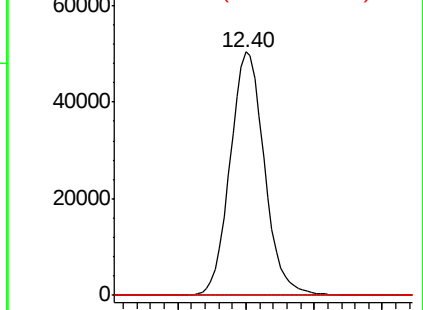
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#95

Naphthalene

Concen: 3.860 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056125.D

Acq: 8 Jun 2019 2:26

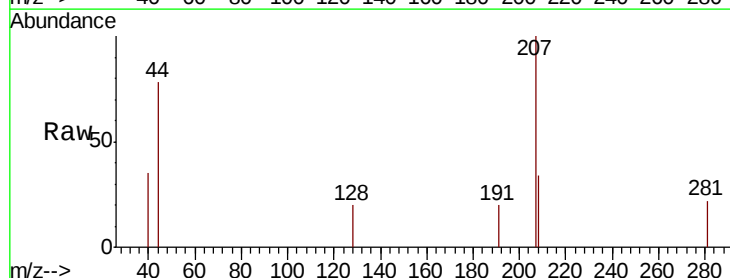
Tgt Ion: 128 Resp: 60

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN055978.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN055978.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN055978.D (-4139) (-)

