

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055516.D
 Acq On : 9 May 2019 23:59
 Operator : JC/SP
 Sample : K2758-31
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EQUIPMENT-BLANK-1

Quant Time: May 10 04:20:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 04:17:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	882354	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1485745	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1234497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	327048	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	602580	45.36	ug/l	0.00
Spiked Amount						
			Recovery	=	90.72%	
35) Dibromofluoromethane	7.59	113	460450	48.04	ug/l	0.00
Spiked Amount						
			Recovery	=	96.08%	
50) Toluene-d8	10.09	98	1817351	48.66	ug/l	0.00
Spiked Amount						
			Recovery	=	97.32%	
62) 4-Bromofluorobenzene	12.40	95	506827	40.25	ug/l	0.00
Spiked Amount						
			Recovery	=	80.50%	

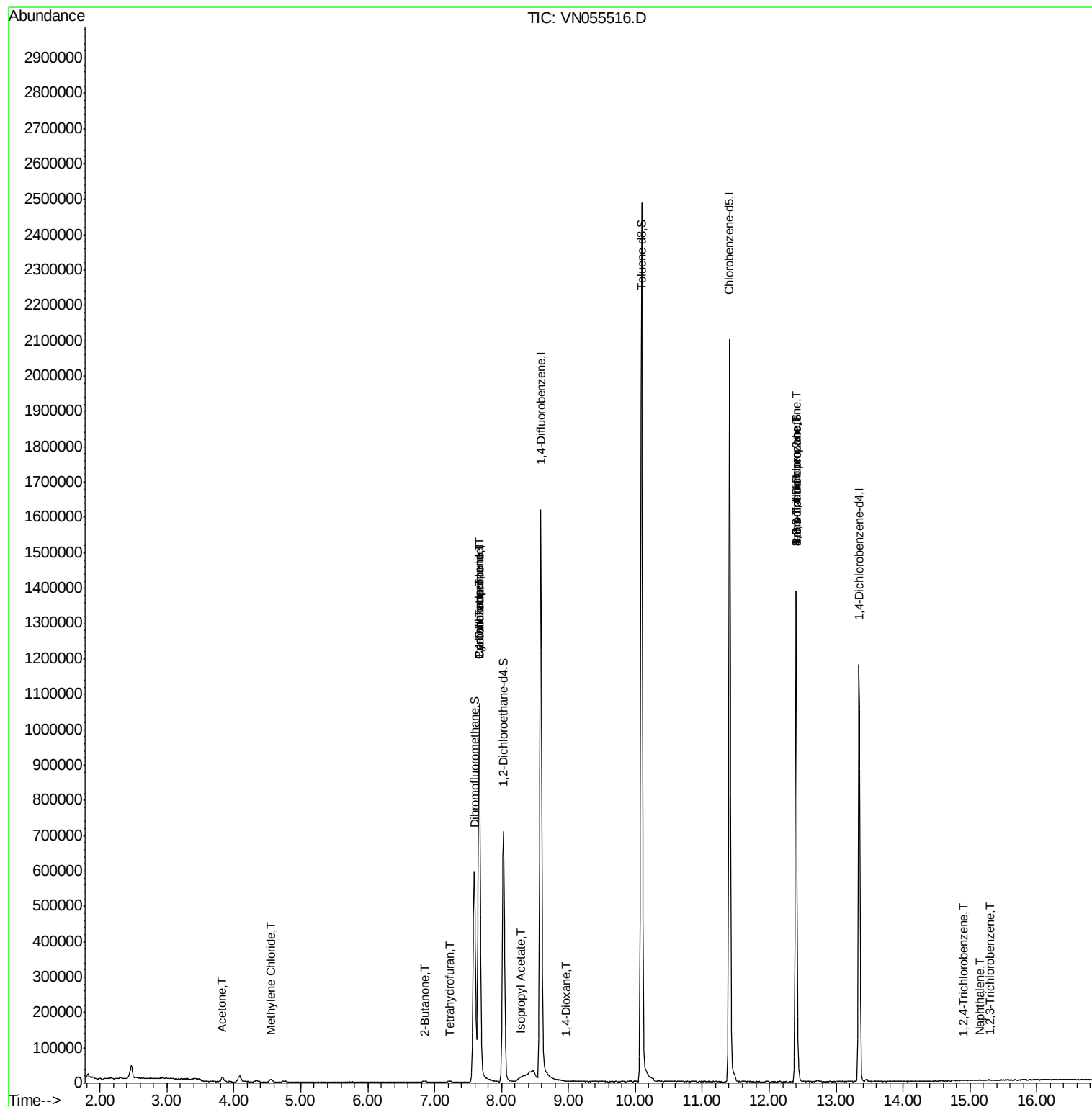
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	17913	2.912	ug/l	96
18) Methyl Acetate	4.34	43	5098	Below Cal	#	88
20) Methylene Chloride	4.55	84	4340	0.345	ug/l #	84
25) 2-Butanone	6.86	43	1947	0.229	ug/l #	52
29) Tetrahydrofuran	7.23	42	3660	0.652	ug/l #	52
31) Cyclohexane	7.66	56	19184	0.895	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	73311	5.009	ug/l #	50
38) Carbon Tetrachloride	7.67	117	86210	6.995	ug/l #	16
43) Isopropyl Acetate	8.27	43	11789	0.486	ug/l #	63
49) 1,4-Dioxane	8.95	88	89	0.391	ug/l #	1
71) Bromoform	12.40	173	3702	0.627	ug/l #	1
73) Isopropylbenzene	12.24	105	147	Below Cal		92
75) 1,1,2,2-Tetrachloroethane	12.40	83	312	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	254939	28.634	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	254939	105.656	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	233	3.250	ug/l #	22
94) Hexachlorobutadiene	15.01	225	176	Below Cal	#	41
95) Naphthalene	15.15	128	767	2.990	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.30	180	66	2.435	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

Instrument :

MSVOA_N

ClientSampleId :

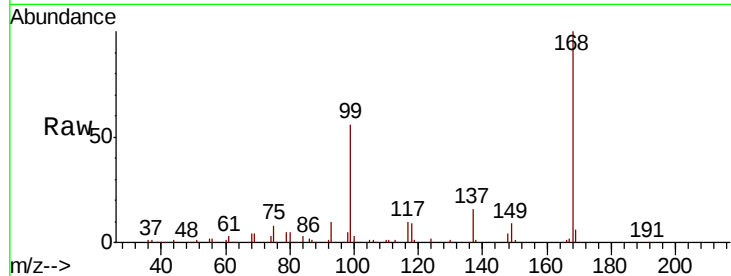
EQUIPMENT-BLANK-1

Tot Ion:168 Resp: 882354

Ion Ratio Lower Upper

168 100

99 56.1 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

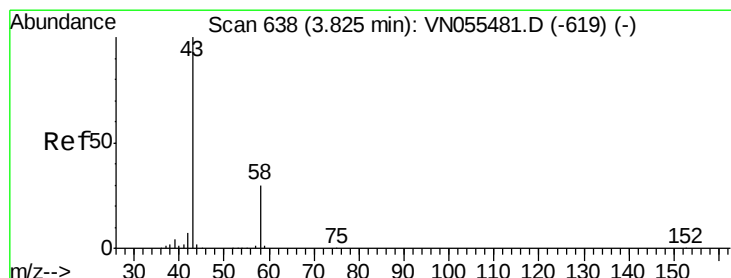
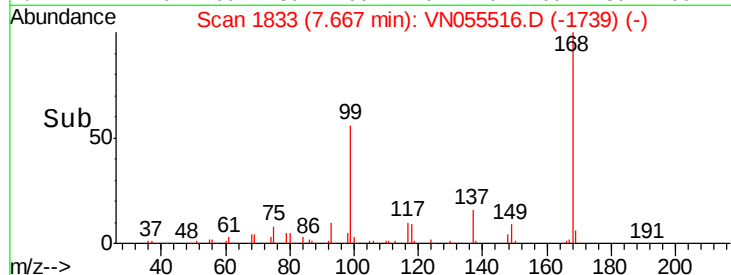
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 2.912 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN055516.D

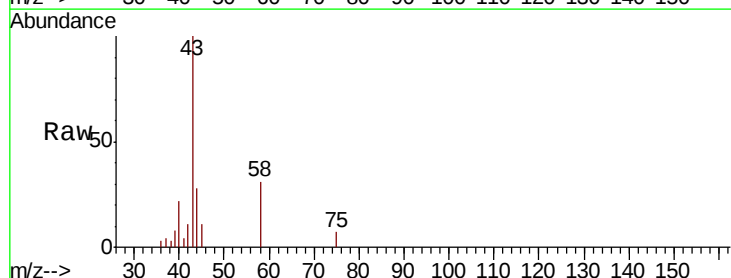
Acq: 9 May 2019 23:59

Tgt Ion: 43 Resp: 17913

Ion Ratio Lower Upper

43 100

58 32.3 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.83

8000

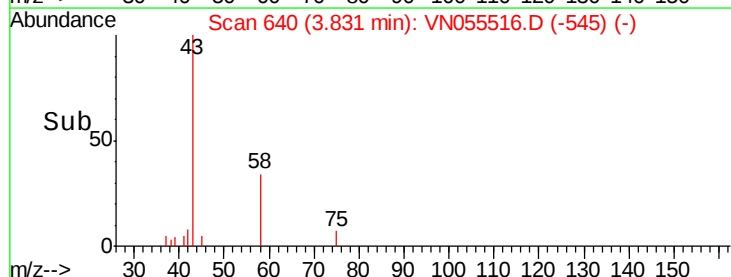
6000

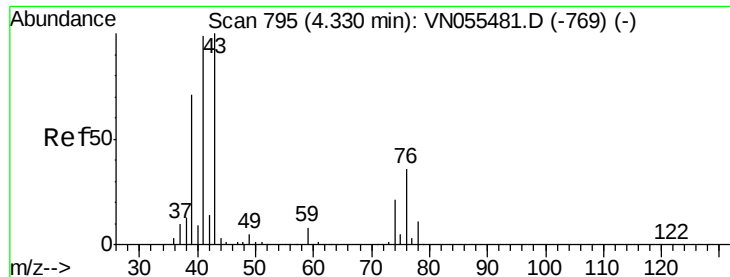
4000

2000

0

Time-->

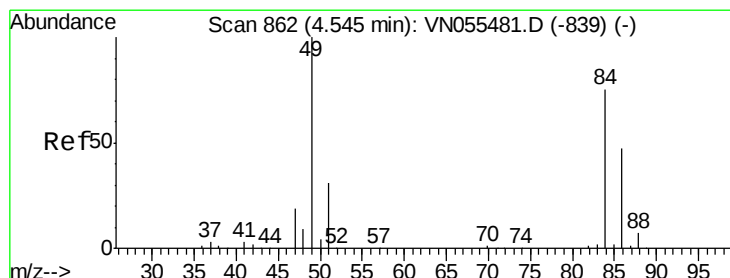
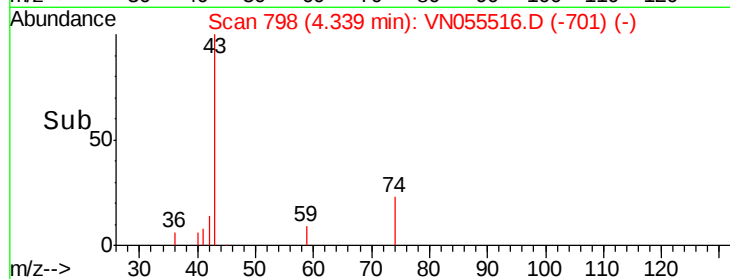
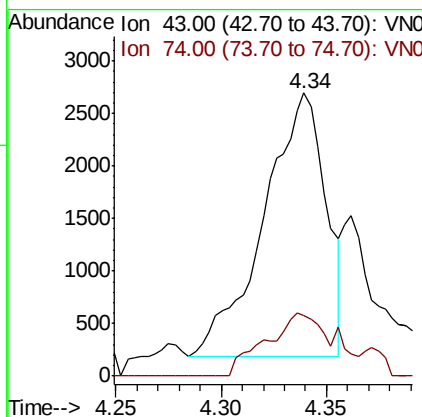
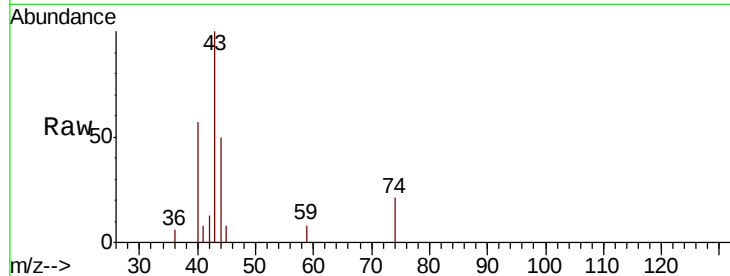




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN055516.D
Acq: 9 May 2019 23:59

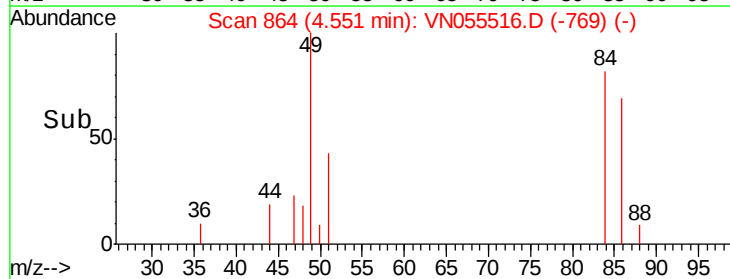
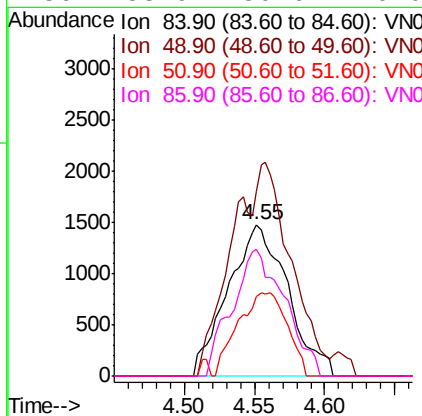
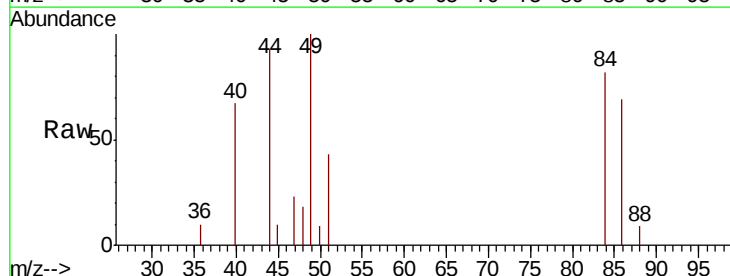
Instrument :
MSVOA_N
ClientSampleId :
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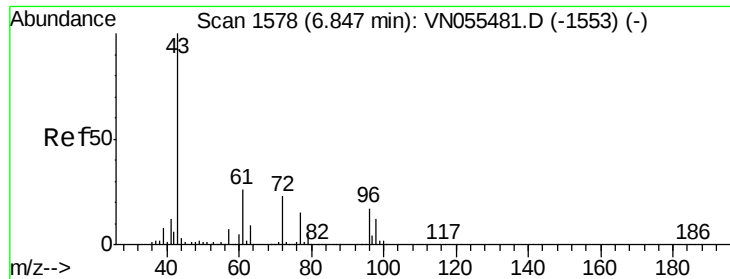
Tot Ion: 43 Resp: 5098
Ion Ratio Lower Upper
43 100
74 26.2 16.3 24.5#



#20
Methylene Chloride
Concen: 0.345 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN055516.D
Acq: 9 May 2019 23:59

Tgt Ion: 84 Resp: 4340
Ion Ratio Lower Upper
84 100
49 122.2 107.0 160.6
51 52.5 33.0 49.4#
86 83.9 50.6 76.0#





#25

2-Butanone

Concen: 0.229 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.01 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

Instrument :

MSVOA_N

ClientSampleId :

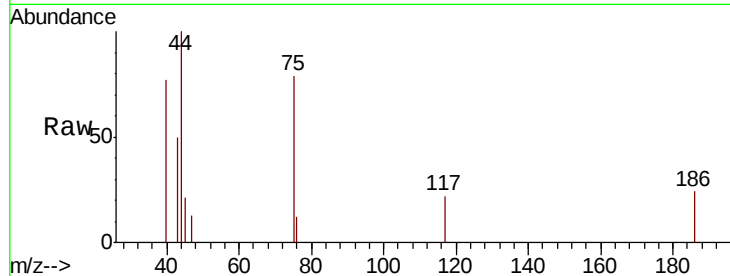
EQUIPMENT-BLANK-1

Tot Ion: 43 Resp: 1947

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.86

800

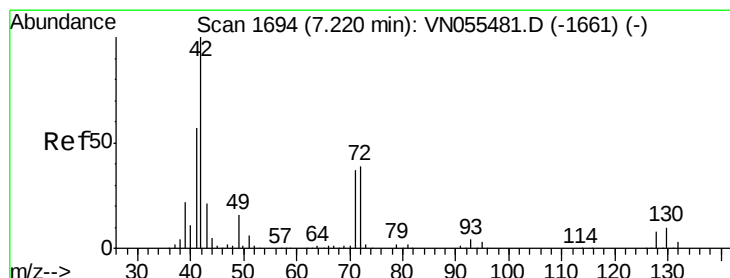
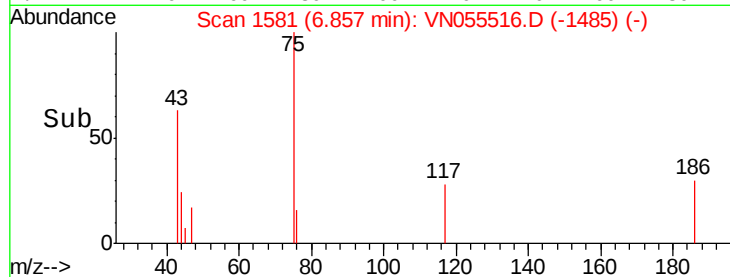
600

400

200

0

Time--> 6.80 6.85 6.90



#29

Tetrahydrofuran

Concen: 0.652 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

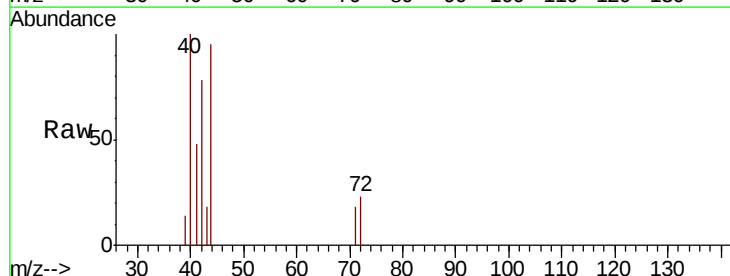
Tgt Ion: 42 Resp: 3660

Ion Ratio Lower Upper

42 100

72 3.2 31.0 46.6#

71 15.2 29.4 44.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

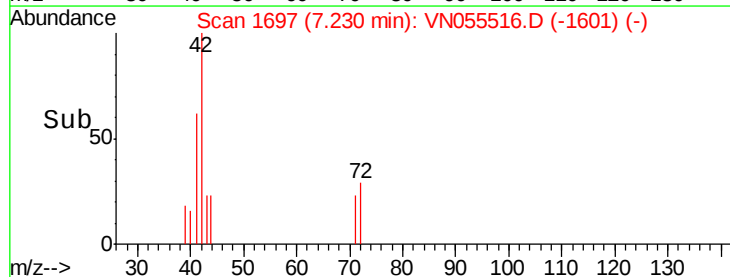
1500

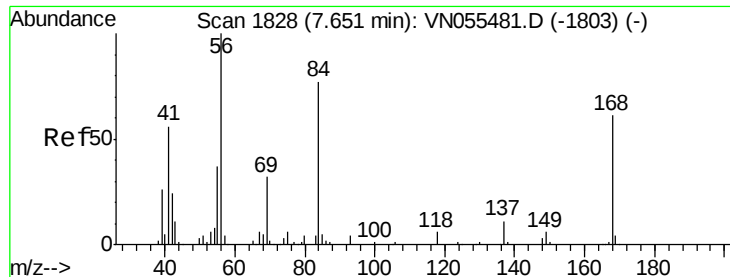
1000

500

0

Time--> 7.15 7.20 7.25 7.30

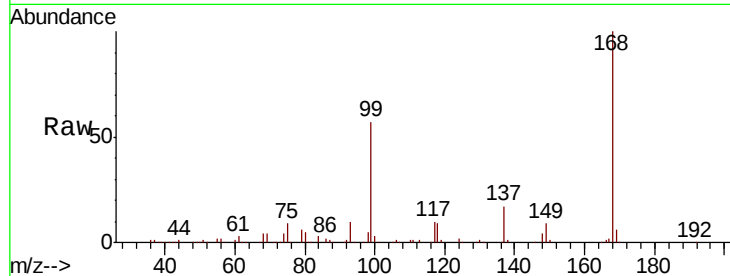




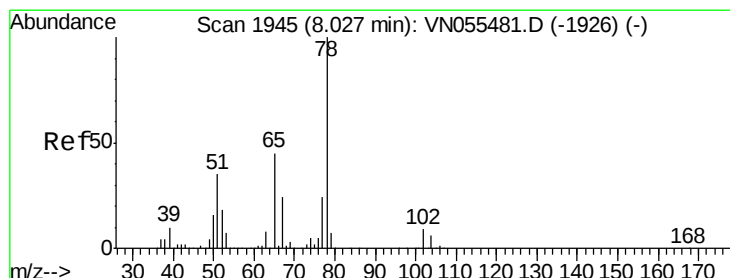
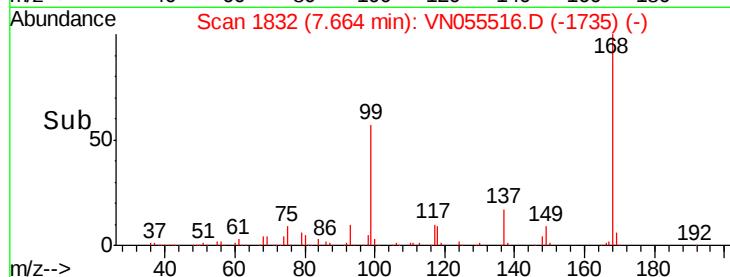
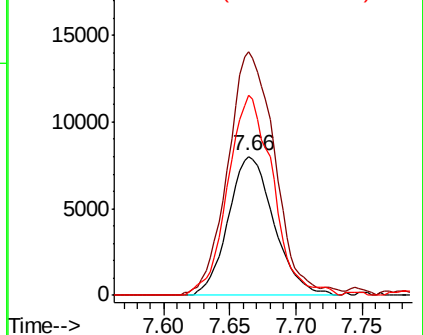
#31
Cyclohexane
Concen: 0.895 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN055516.D
Acq: 9 May 2019 23:59

Instrument :
MSVOA_N
ClientSampleId :
EQUIPMENT-BLANK-1

Tot Ion: 56 Resp: 19184
Ion Ratio Lower Upper
56 100
69 173.0 26.0 39.0#
84 144.1 61.9 92.9#

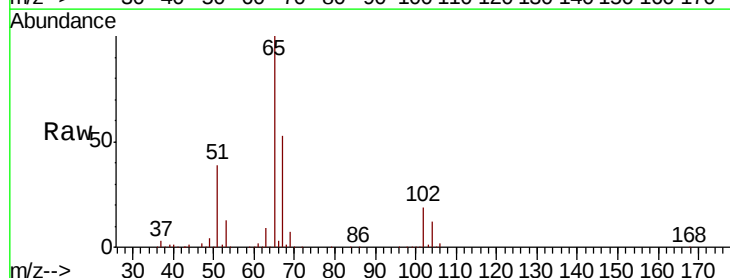


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

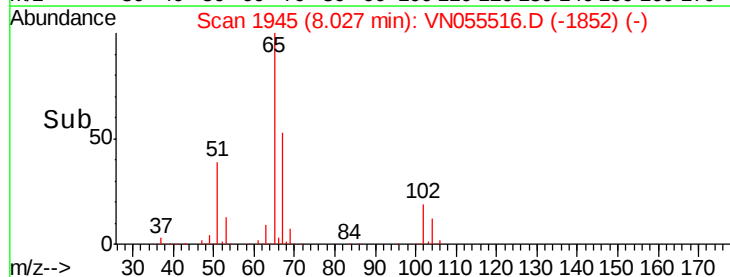
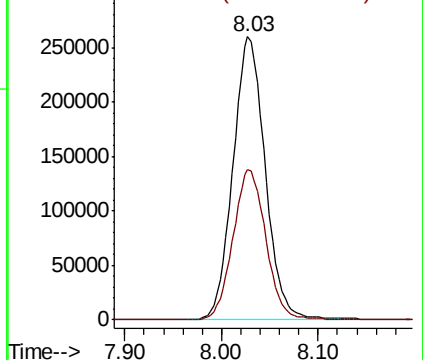


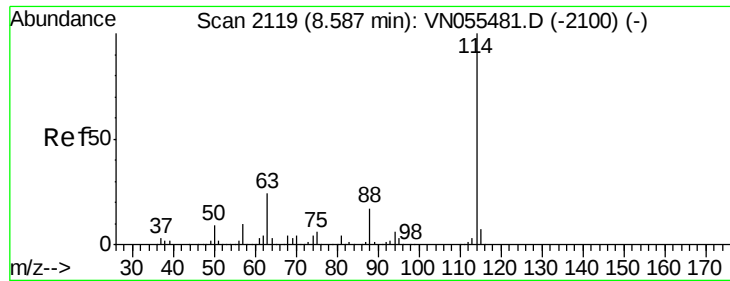
#33
1,2-Dichloroethane-d4
Concen: 45.357 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055516.D
Acq: 9 May 2019 23:59

Tgt Ion: 65 Resp: 602580
Ion Ratio Lower Upper
65 100
67 54.1 0.0 109.6



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

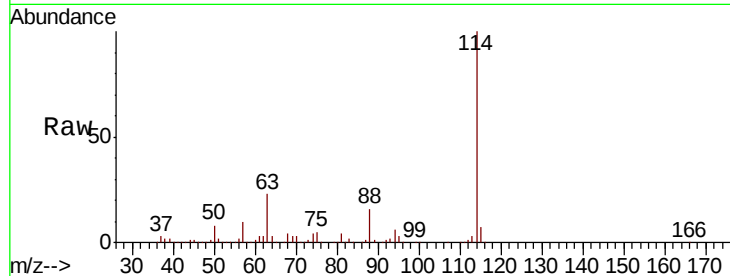




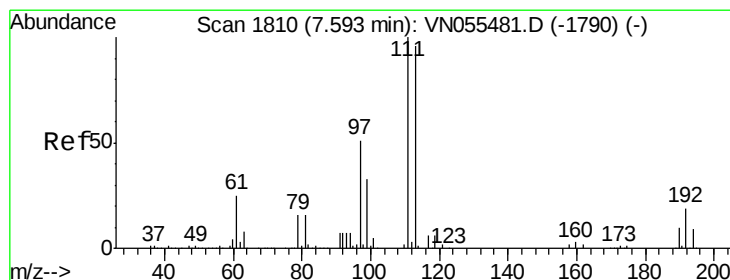
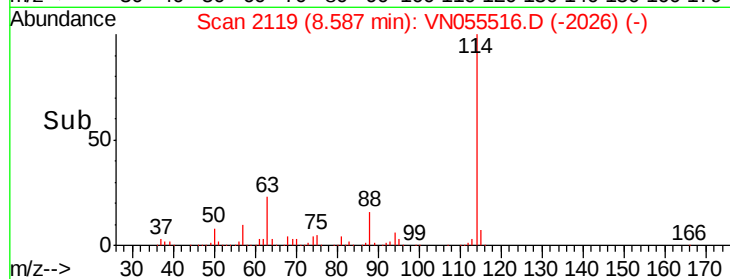
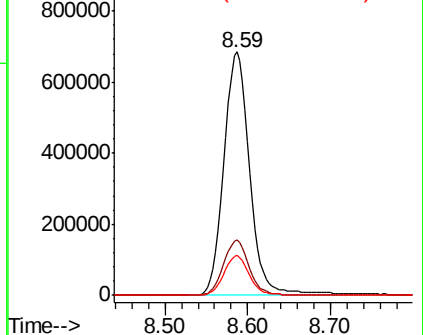
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055516.D
 Acq: 9 May 2019 23:59

Instrument :
 MSVOA_N
 ClientSampleId :
 EQUIPMENT-BLANK-1

Tot Ion:114 Resp: 1485745
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 47.4
 88 16.2 0.0 34.0

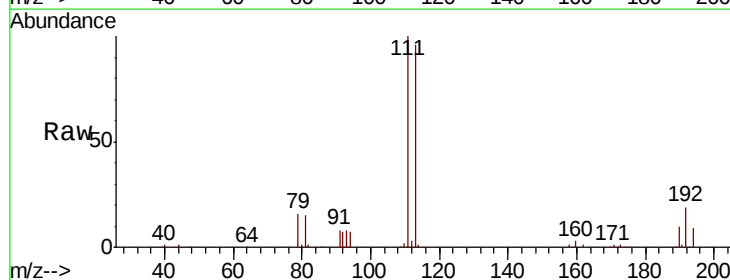


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

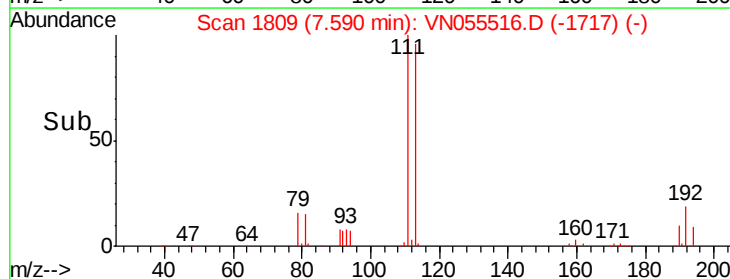
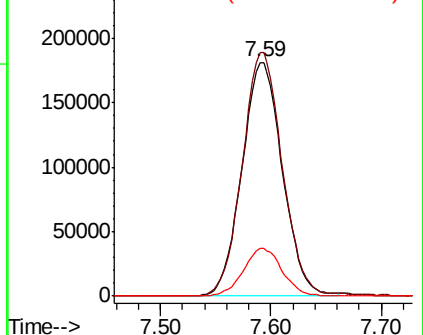


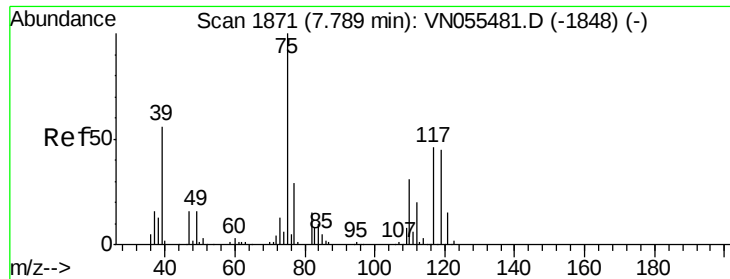
#35
 Dibromofluoromethane
 Concen: 48.042 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055516.D
 Acq: 9 May 2019 23:59

Tgt Ion:113 Resp: 460450
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.9 124.3
 192 19.7 15.6 23.4



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

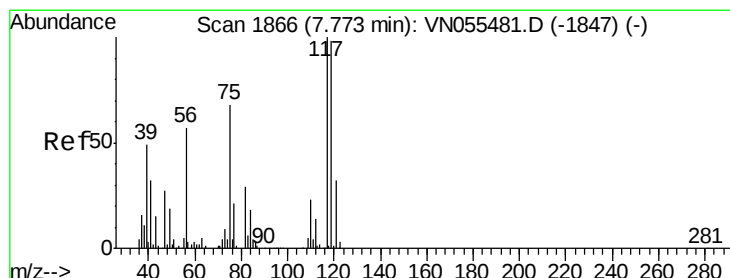
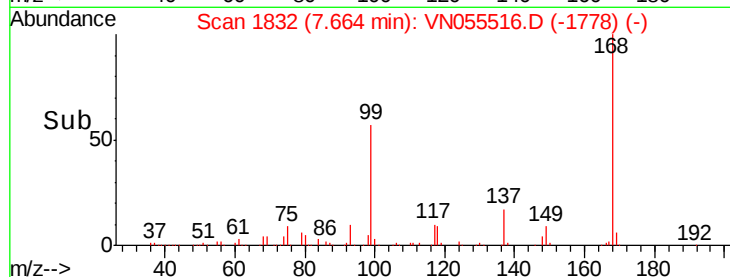
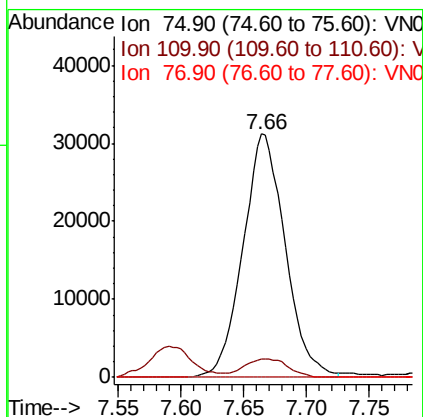
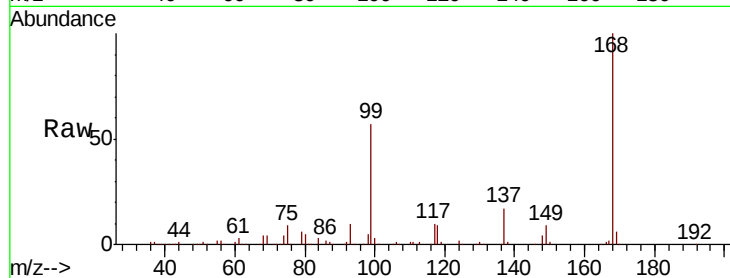




#36
 1,1-Dichloropropene
 Concen: 5.009 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055516.D
 Acq: 9 May 2019 23:59

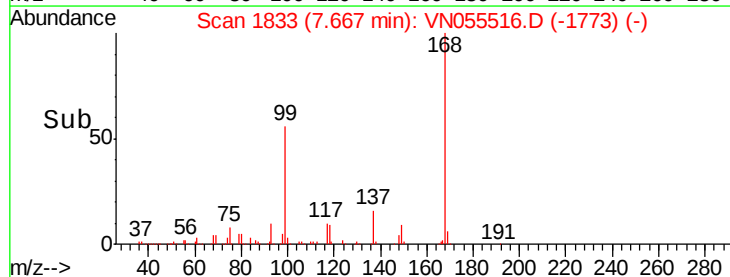
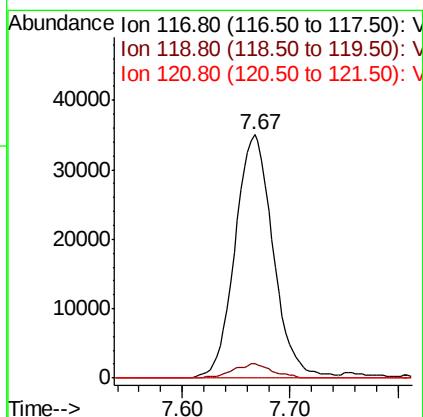
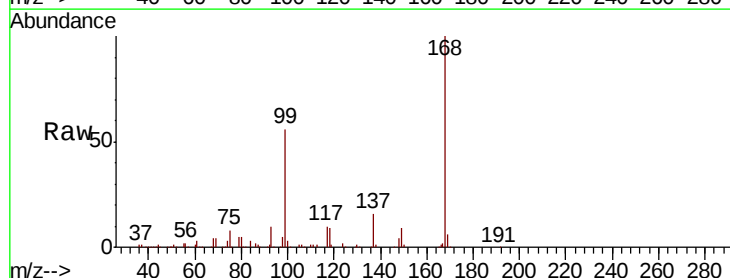
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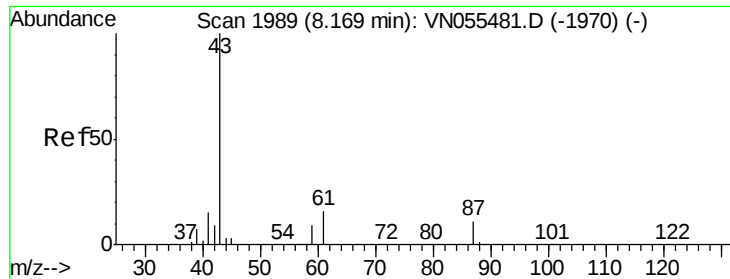
Tot Ion: 75 Resp: 73311
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.1 48.3#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 6.995 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN055516.D
 Acq: 9 May 2019 23:59

Tgt Ion: 117 Resp: 86210
 Ion Ratio Lower Upper
 117 100
 119 5.9 77.8 116.6#
 121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 0.486 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

Instrument :

MSVOA_N

ClientSampleId :

EQUIPMENT-BLANK-1

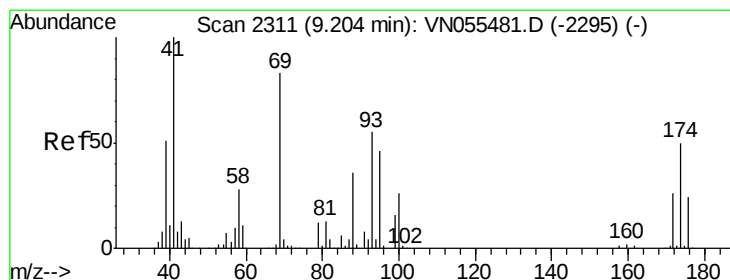
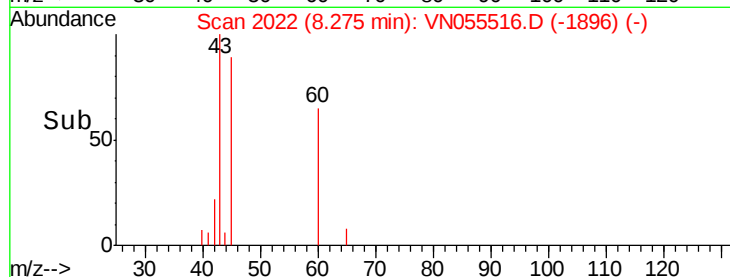
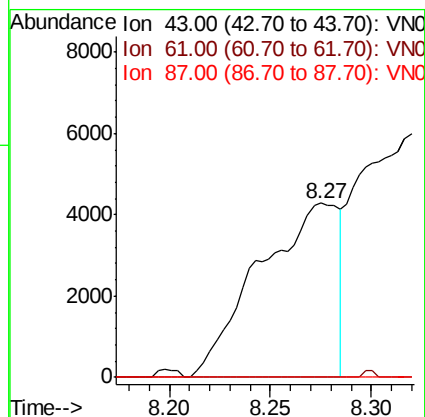
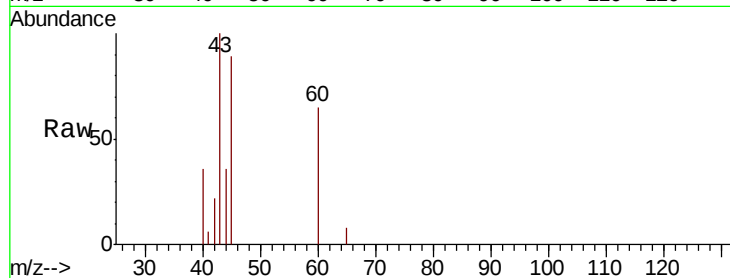
Tot Ion: 43 Resp: 11789

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

87 0.0 9.0 13.6#



#49

1,4-Dioxane

Concen: 0.391 ug/l

RT: 8.95 min Scan# 2233

Delta R.T. -0.25 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

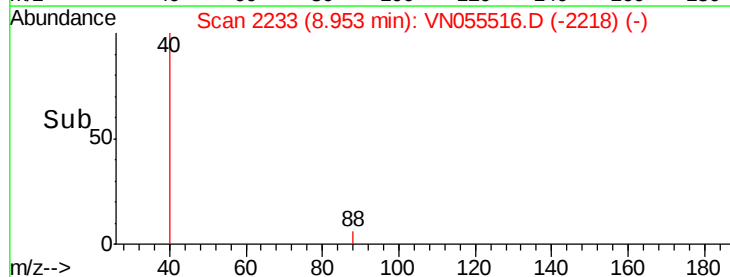
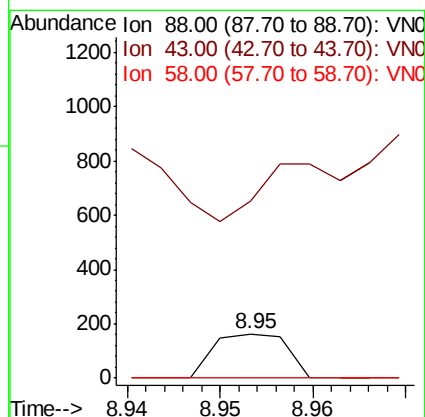
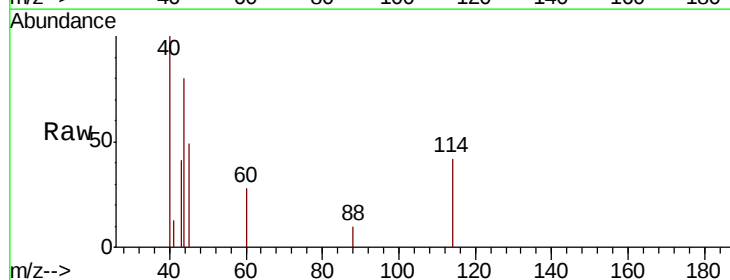
Tgt Ion: 88 Resp: 89

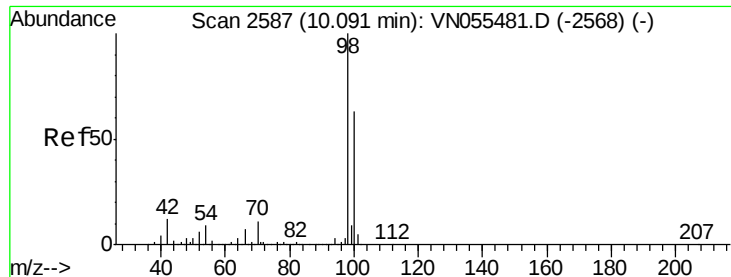
Ion Ratio Lower Upper

88 100

43 382.0 27.8 41.8#

58 0.0 61.8 92.6#





#50

Toluene-d8

Concen: 48.659 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

Instrument :

MSVOA_N

ClientSampleId :

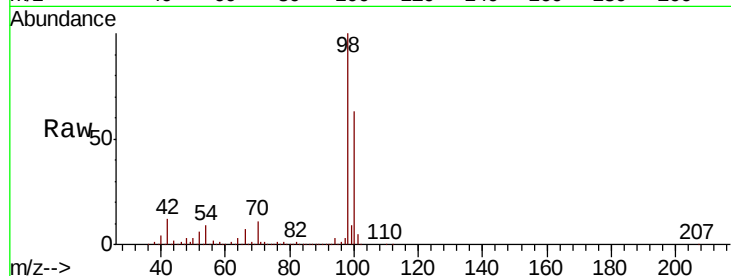
EQUIPMENT-BLANK-1

Tot Ion: 98 Resp: 1817351

Ion Ratio Lower Upper

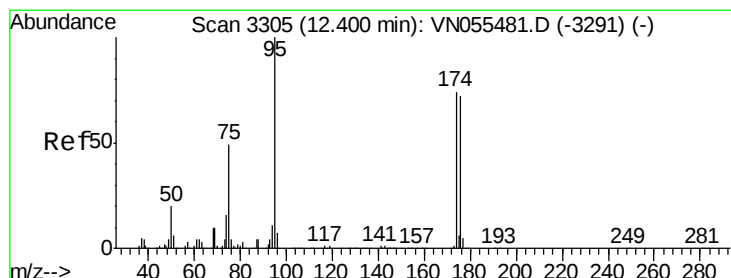
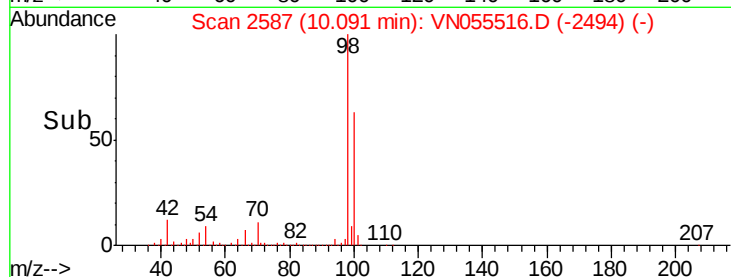
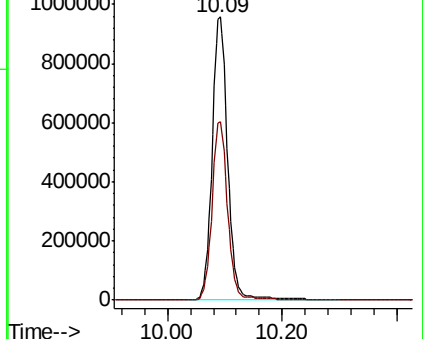
98 100

100 62.8 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 40.245 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

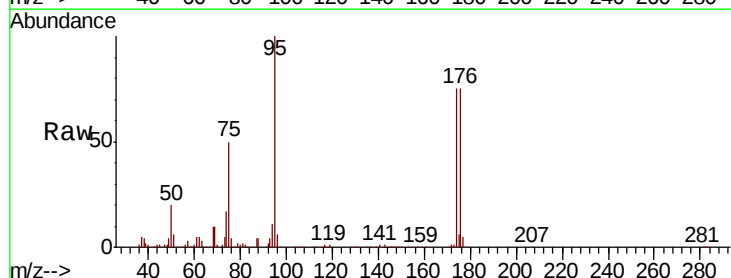
Tgt Ion: 95 Resp: 506827

Ion Ratio Lower Upper

95 100

174 77.9 0.0 152.2

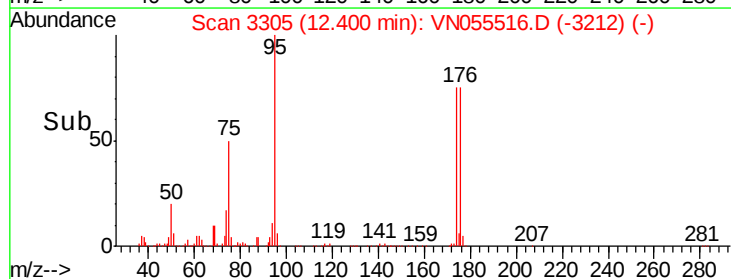
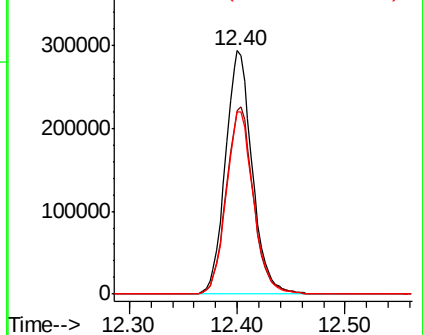
176 76.2 0.0 147.8

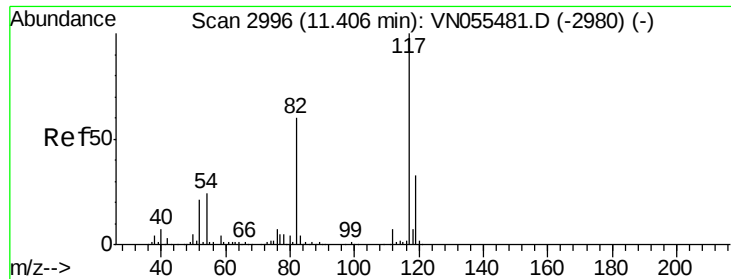


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

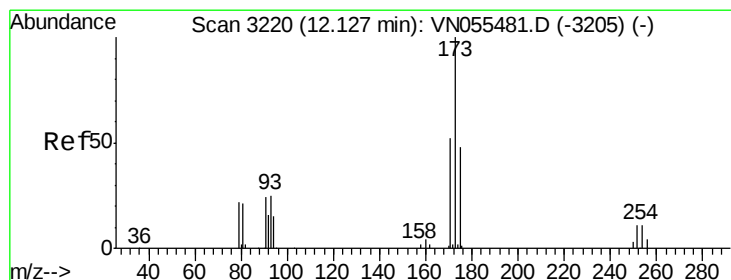
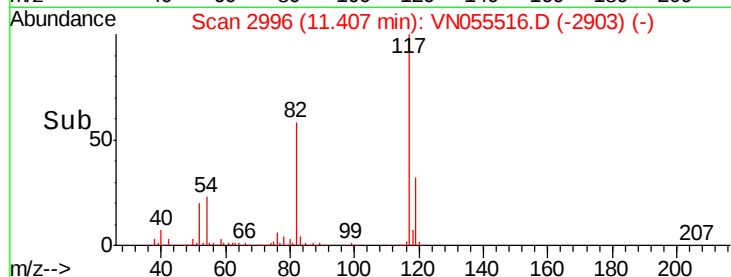
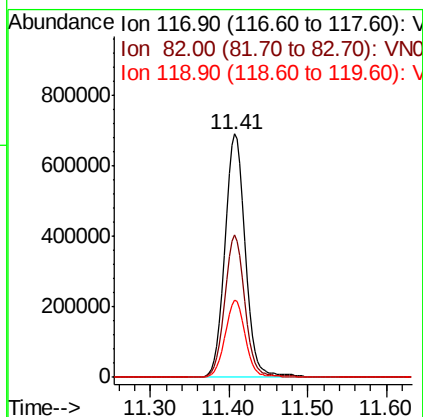
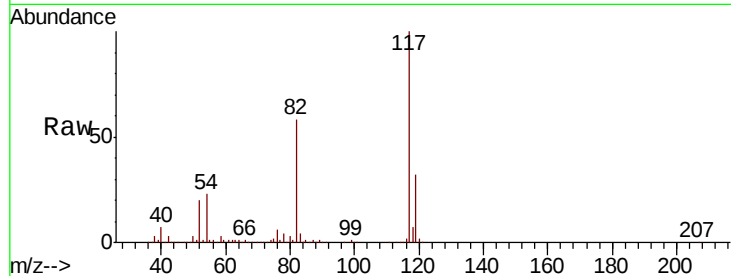




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055516.D
Acq: 9 May 2019 23:59

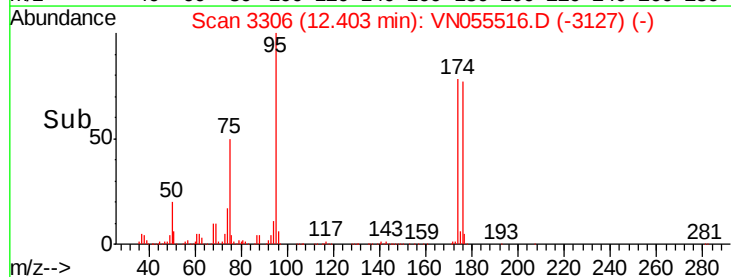
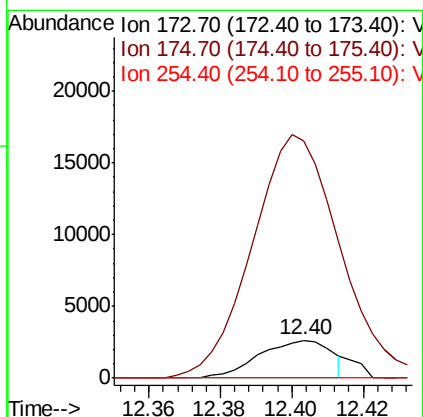
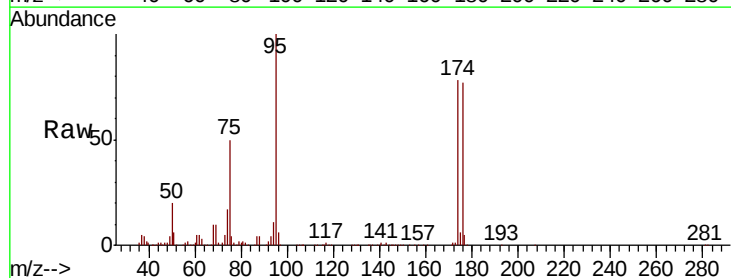
Instrument :
MSVOA_N
ClientSampleId :
EQUIPMENT-BLANK-1

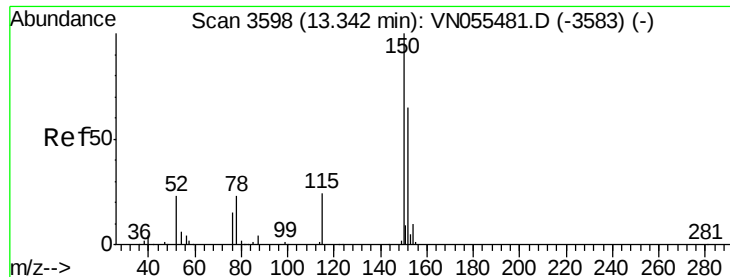
Tot Ion:117 Resp: 1234497
Ion Ratio Lower Upper
117 100
82 58.3 48.0 72.0
119 31.6 26.0 39.0



#71
Bromoform
Concen: 0.627 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055516.D
Acq: 9 May 2019 23:59

Tgt Ion:173 Resp: 3702
Ion Ratio Lower Upper
173 100
175 677.7 24.1 72.4#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

Instrument :

MSVOA_N

ClientSampleId :

EQUIPMENT-BLANK-1

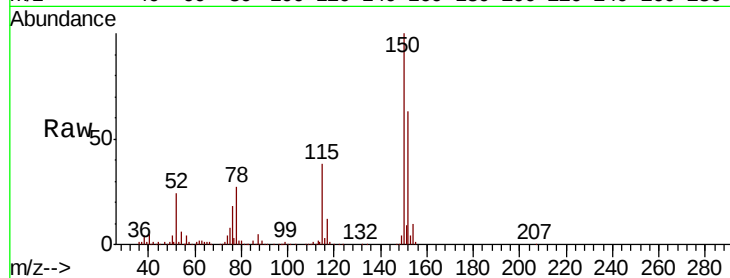
Tot Ion:152 Resp: 327048

Ion Ratio Lower Upper

152 100

115 60.0 30.1 90.5

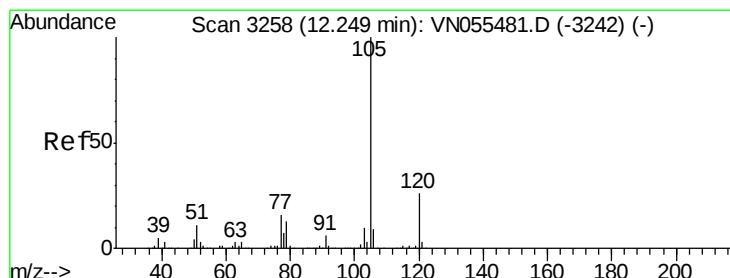
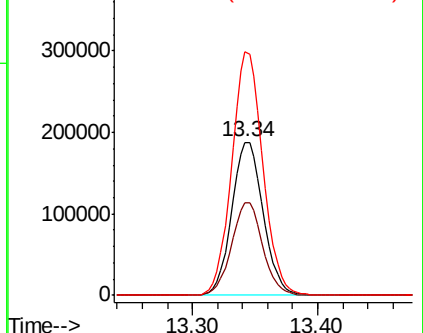
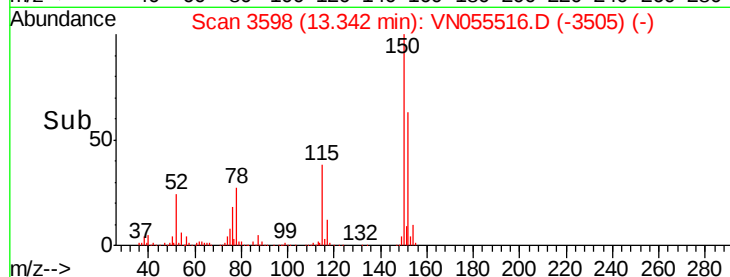
150 157.3 0.0 355.0



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: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN055516.D

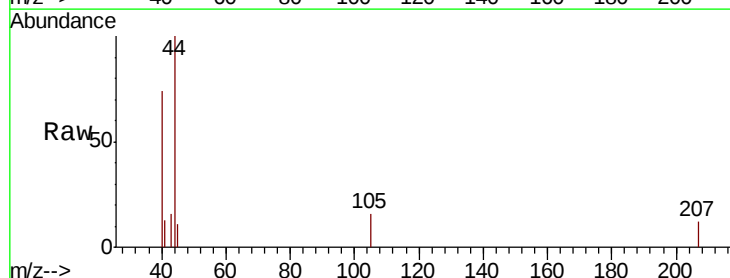
Acq: 9 May 2019 23:59

Tgt Ion:105 Resp: 147

Ion Ratio Lower Upper

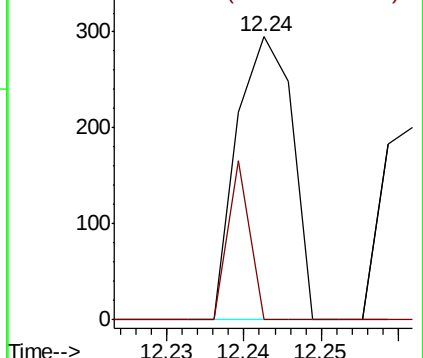
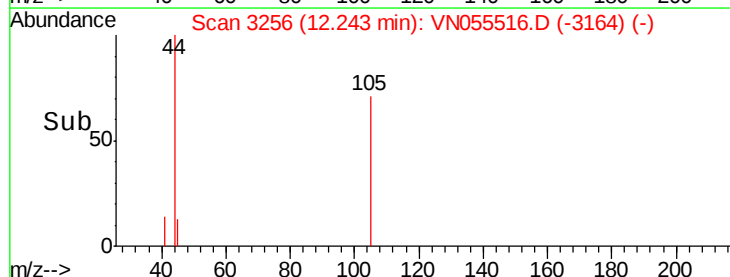
105 100

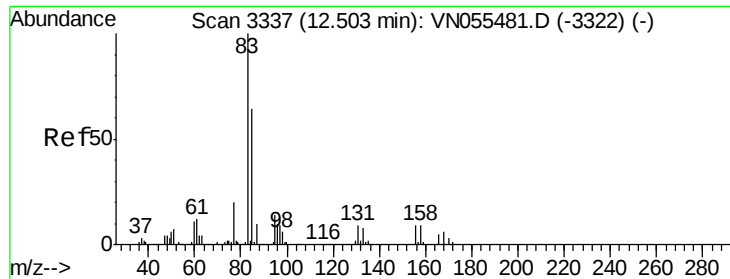
120 21.8 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

Instrument :

MSVOA_N

ClientSampleId :

EQUIPMENT-BLANK-1

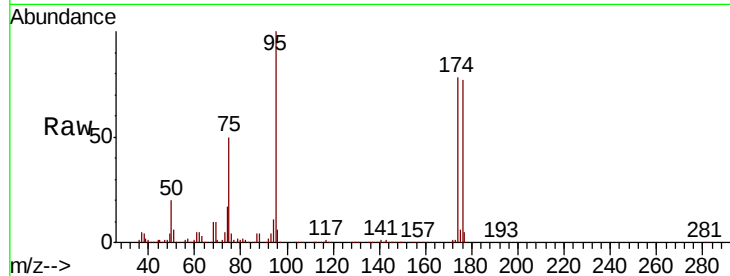
Tot Ion: 83 Resp: 312

Ion Ratio Lower Upper

83 100

131 126.0 4.5 13.5#

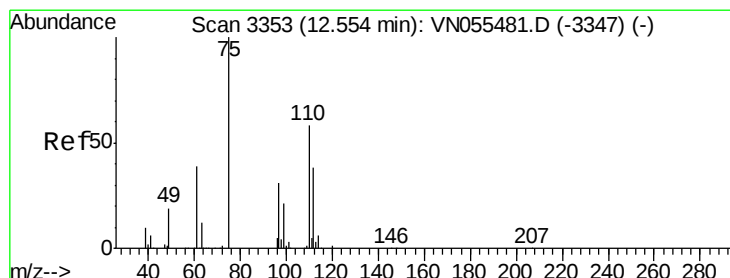
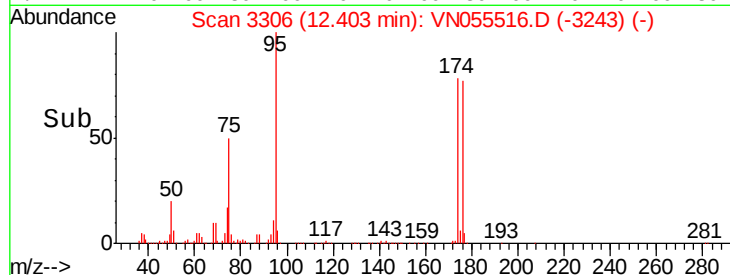
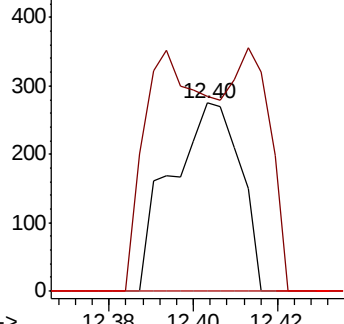
85 0.0 32.0 96.0#



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: 28.634 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055516.D

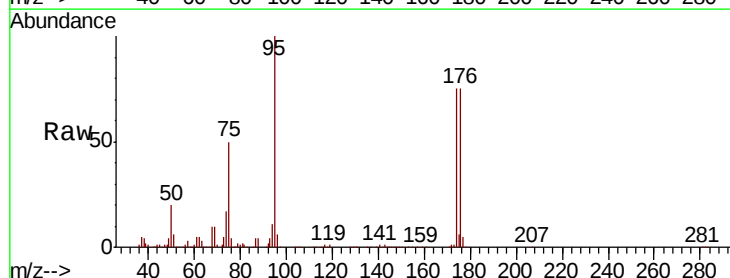
Acq: 9 May 2019 23:59

Tgt Ion: 75 Resp: 254939

Ion Ratio Lower Upper

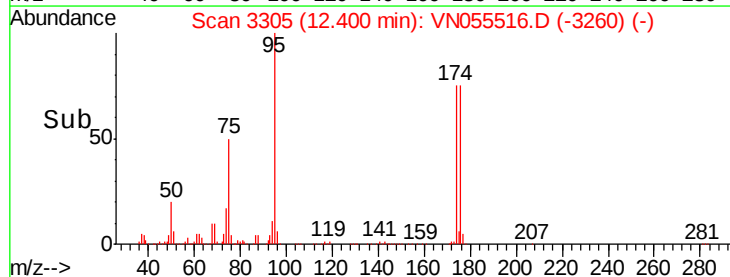
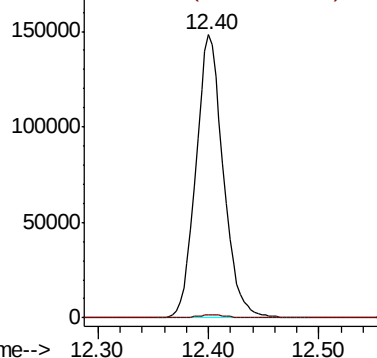
75 100

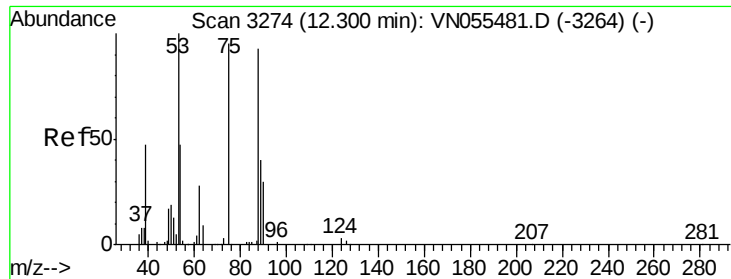
77 1.1 0.0 0.0#



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: 105.656 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

Instrument :

MSVOA_N

ClientSampleId :

EQUIPMENT-BLANK-1

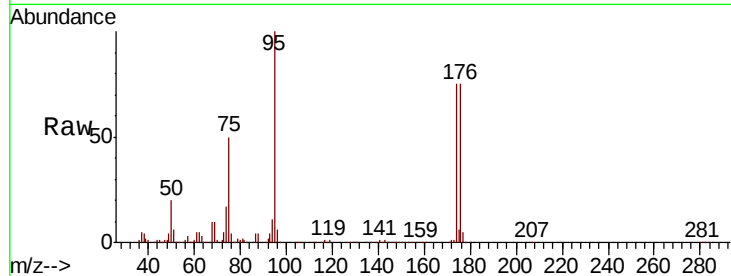
Tot Ion: 75 Resp: 254939

Ion Ratio Lower Upper

75 100

53 0.0 86.5 129.7#

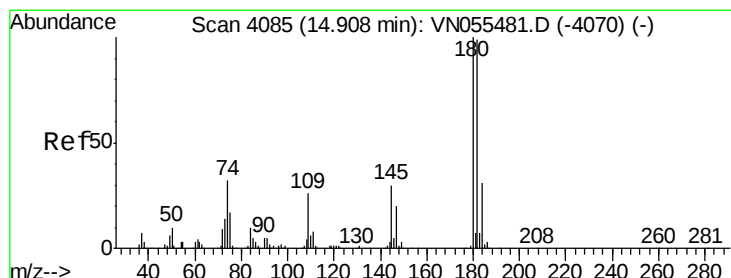
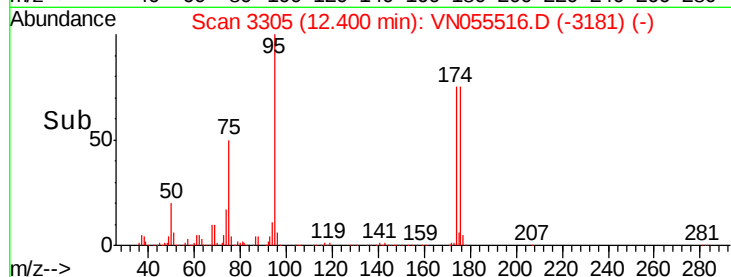
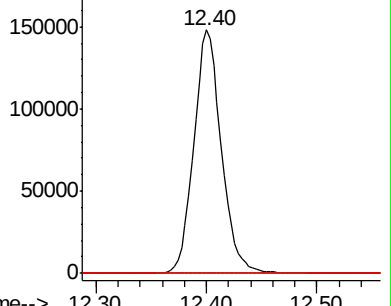
89 0.0 35.7 53.5#



Abundance Ion 74.90 (74.60 to 75.60): VN055516.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055516.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055516.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.250 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

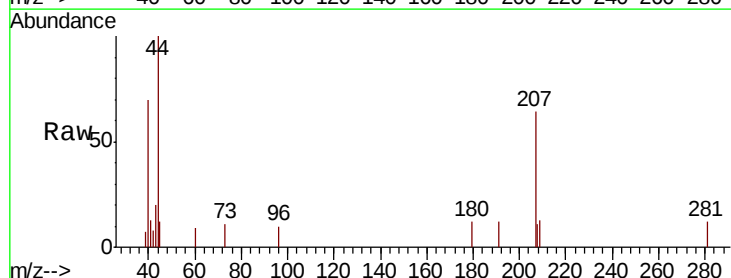
Tgt Ion:180 Resp: 233

Ion Ratio Lower Upper

180 100

182 13.7 48.7 146.1#

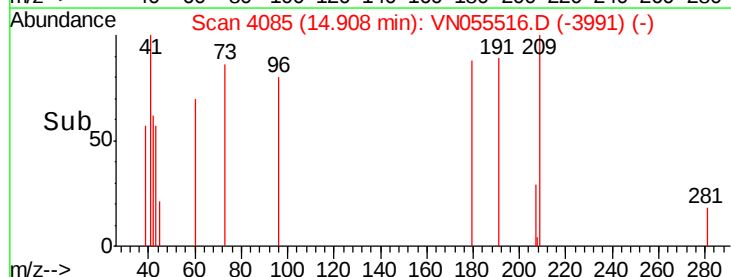
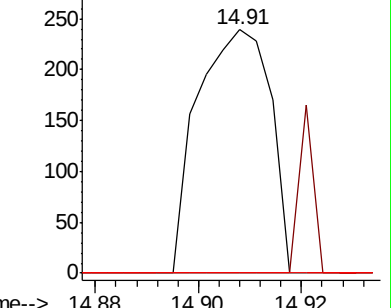
145 0.0 15.3 45.9#

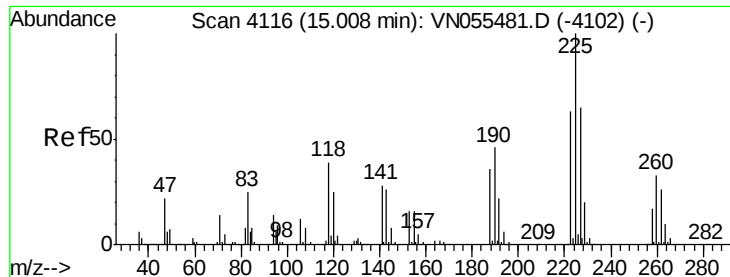


Abundance Ion 179.80 (179.50 to 180.50): VN055516.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN055516.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN055516.D (-3991) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4118

Delta R.T. 0.01 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

Instrument :

MSVOA_N

ClientSampleId :

EQUIPMENT-BLANK-1

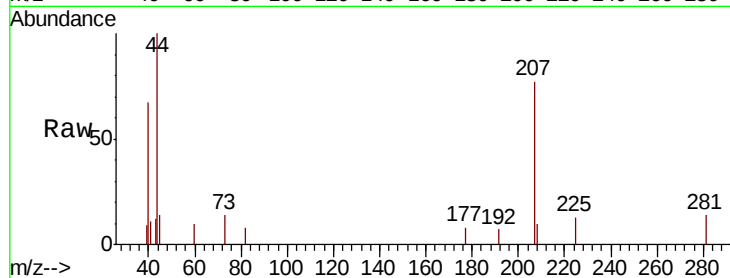
Tot Ion:225 Resp: 176

Ion Ratio Lower Upper

225 100

223 34.7 31.4 94.3

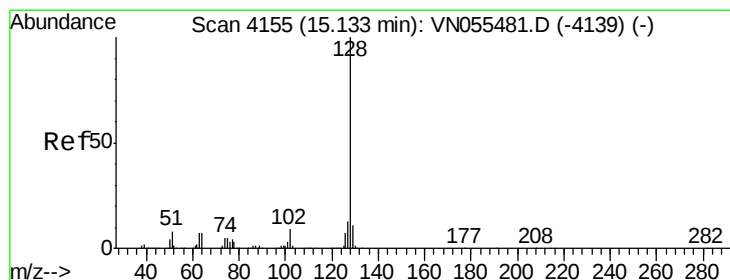
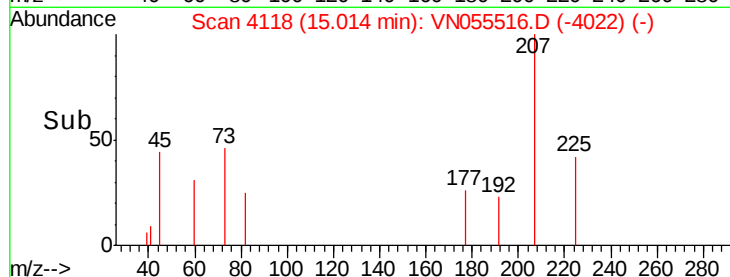
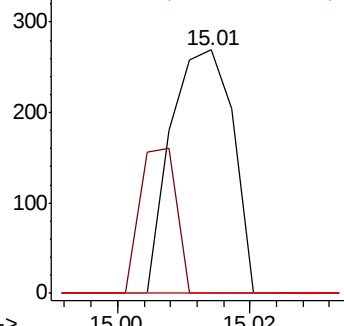
227 0.0 32.0 96.0#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.990 ug/l

RT: 15.15 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN055516.D

Acq: 9 May 2019 23:59

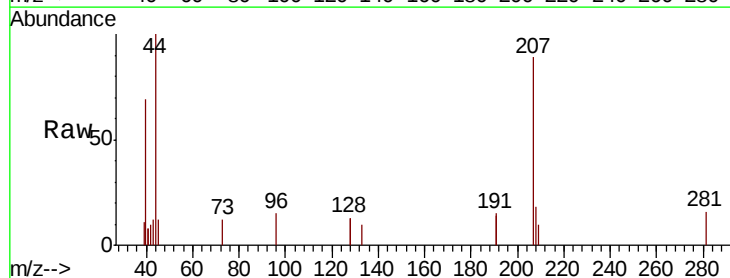
Tgt Ion:128 Resp: 767

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

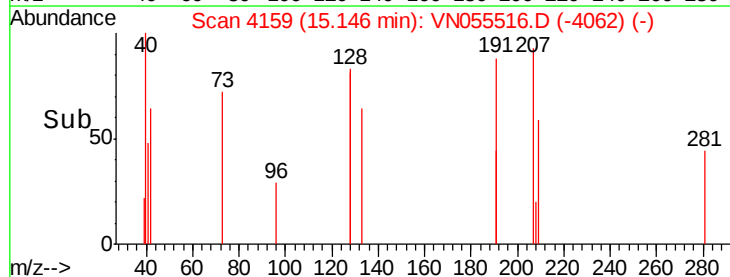
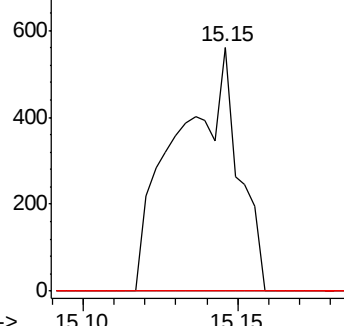
129 0.0 8.8 13.2#

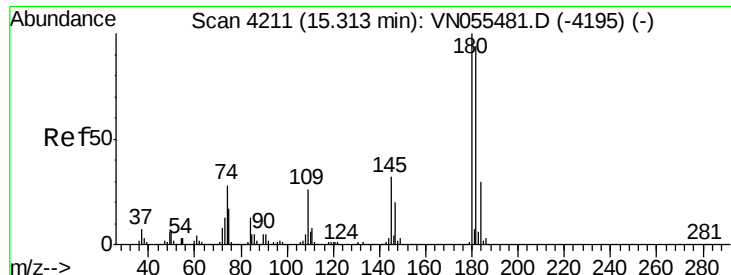


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.435 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.02 min
 Lab File: VN055516.D
 Acq: 9 May 2019 23:59

Instrument :
 MSVOA_N
 ClientSampleId :
 EQUIPMENT-BLANK-1

Tot Ion:	180	Resp:	66
Ion Ratio	Lower	Upper	
180	100		
182	0.0	47.1	141.3#
145	0.0	15.8	47.4#

