

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051319\
 Data File : VN055580.D
 Acq On : 13 May 2019 17:26
 Operator : JC/SP
 Sample : K2840-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 KR-02 4-14

Quant Time: May 14 01:49:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 06:48:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	959794	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1579199	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1324987	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	391586	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	609095	42.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.30%	
35) Dibromofluoromethane	7.59	113	483186	47.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.86%	
50) Toluene-d8	10.09	98	1906446	48.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.04%	
62) 4-Bromofluorobenzene	12.40	95	562720	42.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.08%	

Target Compounds

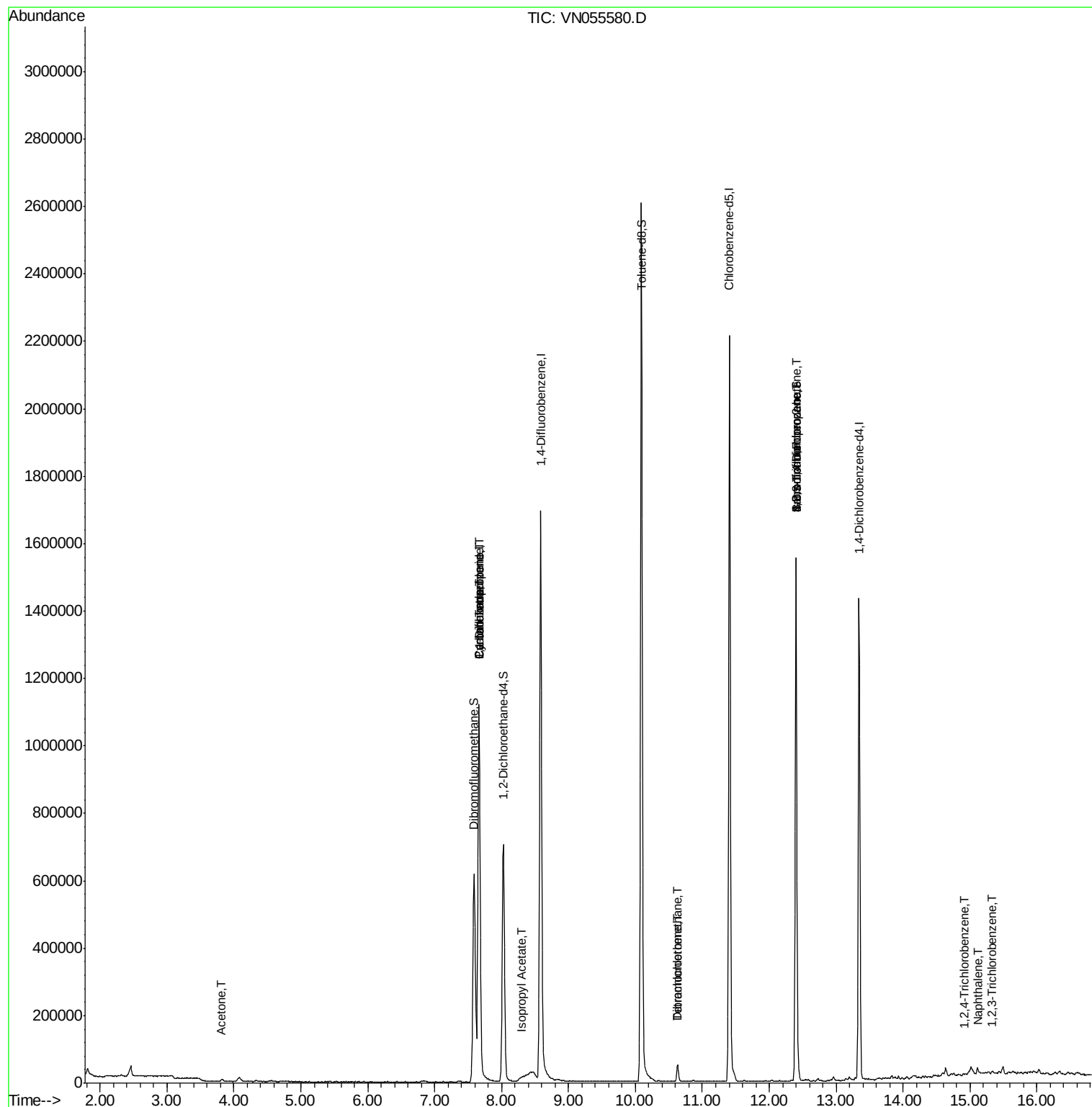
					Qvalue	
16) Acetone	3.82	43	8847	1.322	ug/l #	86
18) Methyl Acetate	4.33	43	6682	Below Cal	#	76
31) Cyclohexane	7.67	56	19239	0.825	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	73753	4.741	ug/l #	51
38) Carbon Tetrachloride	7.66	117	88304	6.741	ug/l #	15
43) Isopropyl Acetate	8.29	43	12966	0.503	ug/l #	63
60) Dibromochloromethane	10.63	129	10699	1.052	ug/l #	11
64) Tetrachloroethene	10.63	164	11832	1.090	ug/l	93
71) Bromoform	12.40	173	2866	0.453	ug/l #	1
73) Isopropylbenzene	12.25	105	405	Below Cal	#	42
75) 1,1,2,2-Tetrachloroethane	12.50	83	83	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	277053	25.989	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	277053	95.897	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	559	3.295	ug/l #	75
94) Hexachlorobutadiene	15.01	225	341	Below Cal	#	63
95) Naphthalene	15.13	128	3541	3.141	ug/l	96
96) 1,2,3-Trichlorobenzene	15.32	180	899	2.559	ug/l #	57

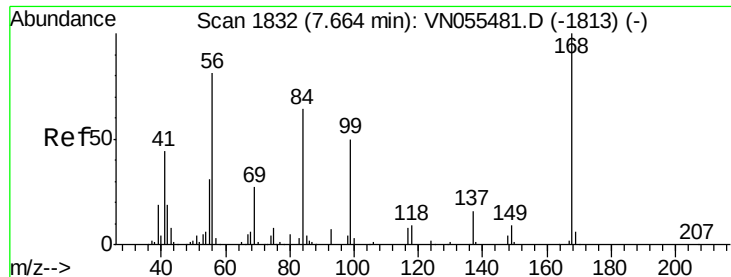
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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KR-02_4-14

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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: VN055580.D

Acq: 13 May 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

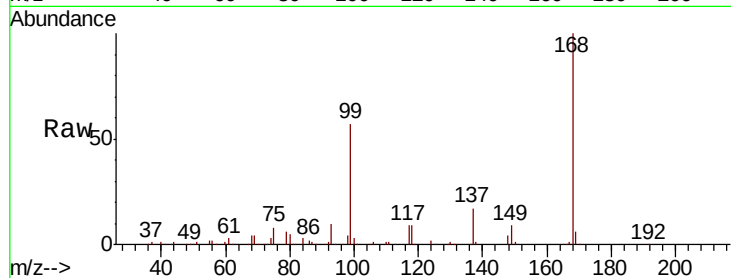
KR-02 4-14

Tot Ion:168 Resp: 959794

Ion Ratio Lower Upper

168 100

99 56.7 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

400000

300000

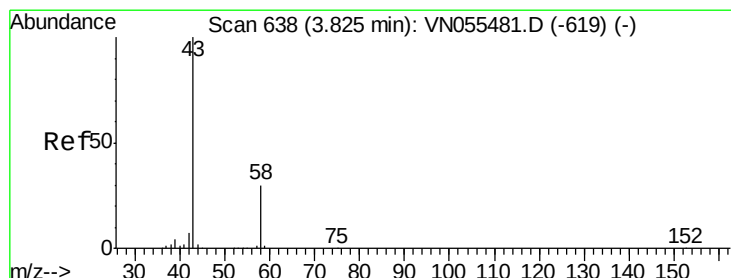
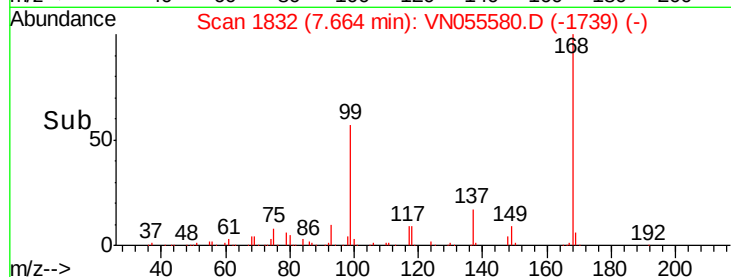
200000

100000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 1.322 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN055580.D

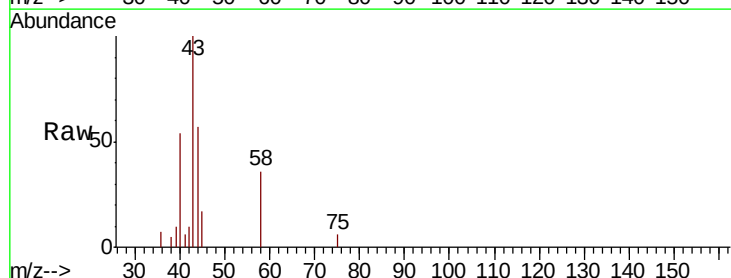
Acq: 13 May 2019 17:26

Tgt Ion: 43 Resp: 8847

Ion Ratio Lower Upper

43 100

58 38.0 24.2 36.2#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

4000

3000

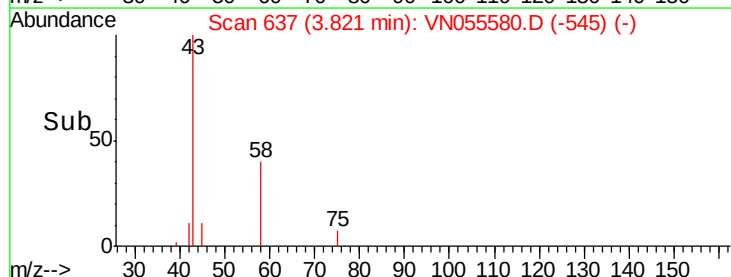
2000

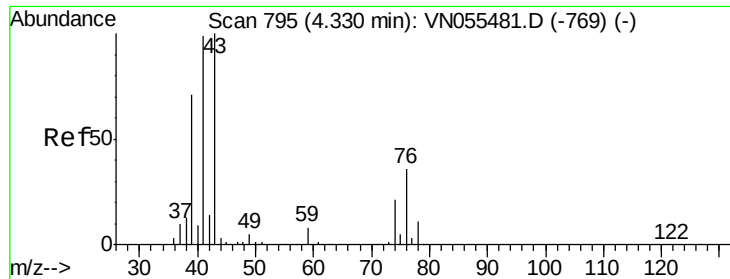
1000

0

3.75 3.80 3.85 3.90

Time-->

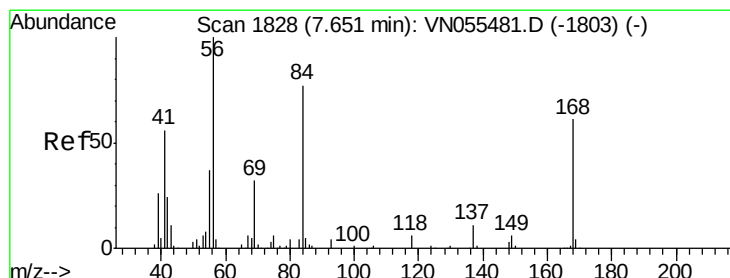
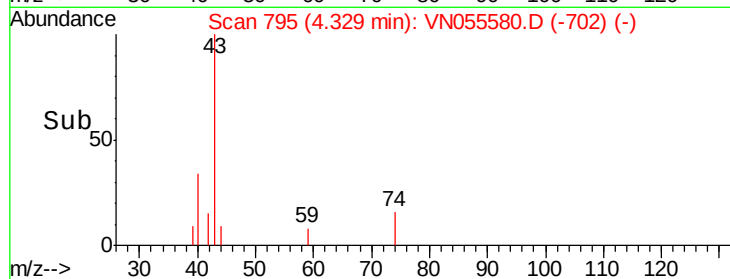
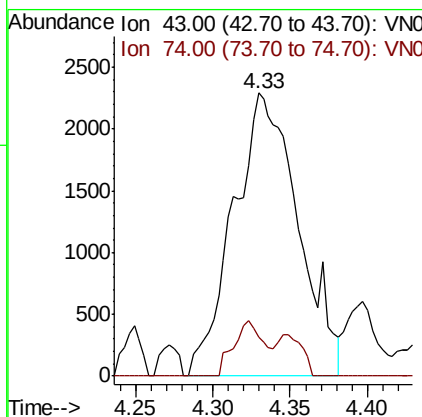
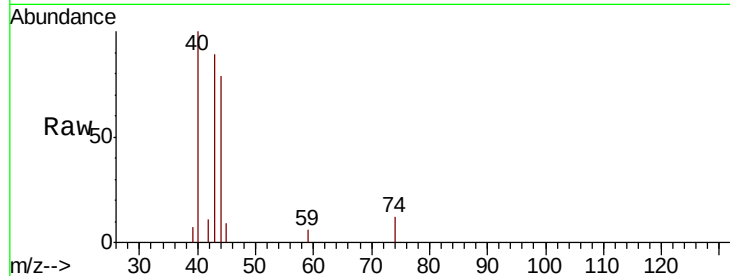




#18
Methvl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055580.D
Acq: 13 May 2019 17:26

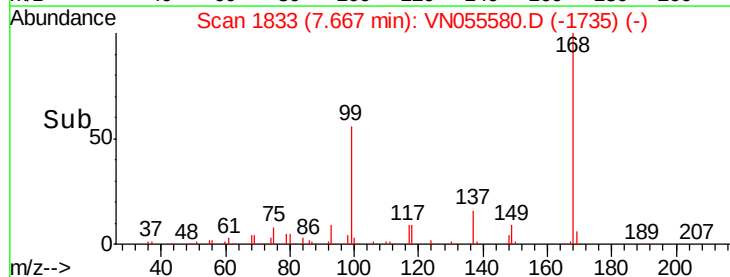
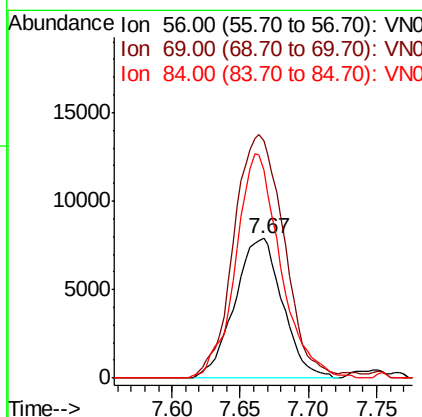
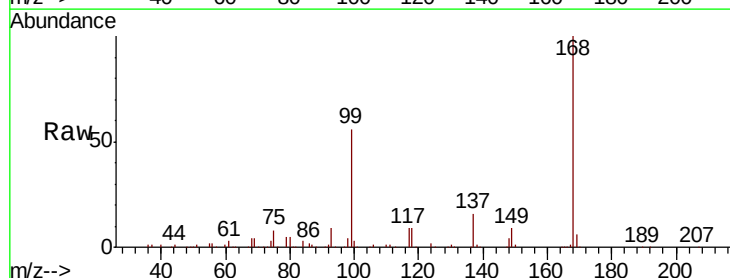
Instrument :
MSVOA_N
ClientSampled :
KR-02 4-14

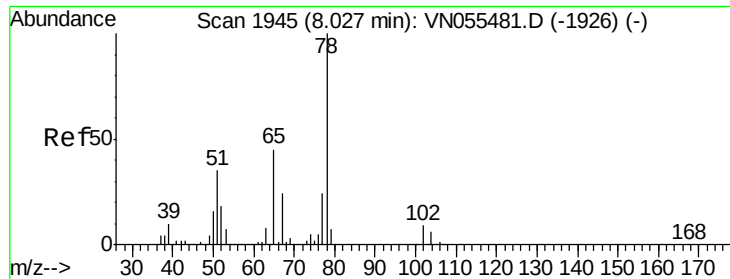
Tot Ion: 43 Resp: 6682
Ion Ratio Lower Upper
43 100
74 9.2 16.3 24.5#



#31
Cyclohexane
Concen: 0.825 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN055580.D
Acq: 13 May 2019 17:26

Tgt Ion: 56 Resp: 19239
Ion Ratio Lower Upper
56 100
69 170.2 26.0 39.0#
84 148.3 61.9 92.9#

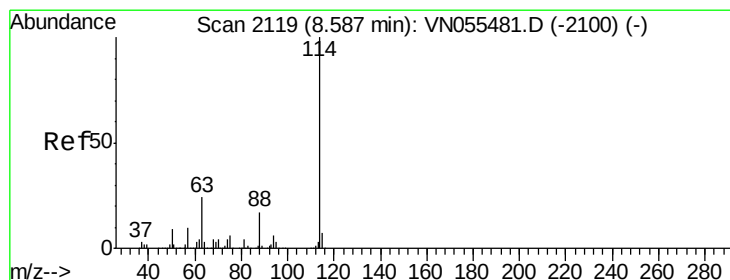
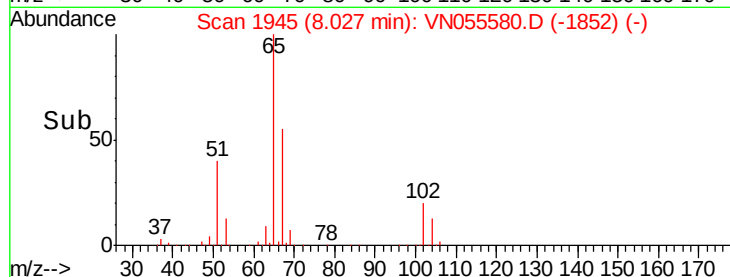
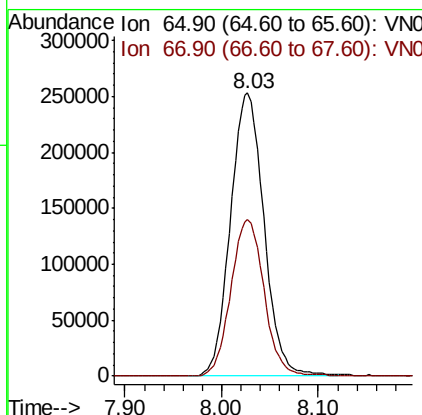
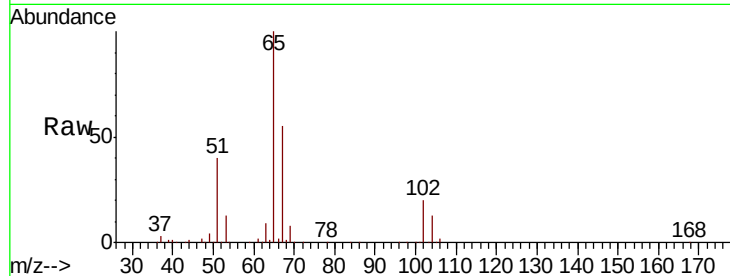




#33
 1,2-Dichloroethane-d4
 Concen: 42.148 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055580.D
 Acq: 13 May 2019 17:26

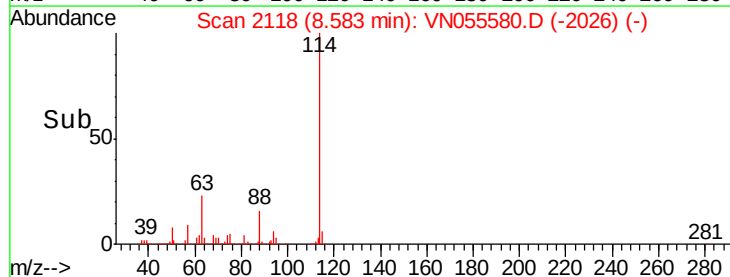
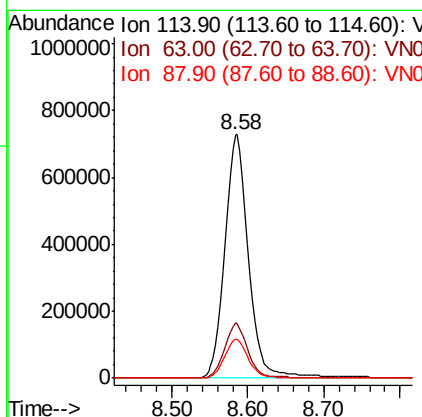
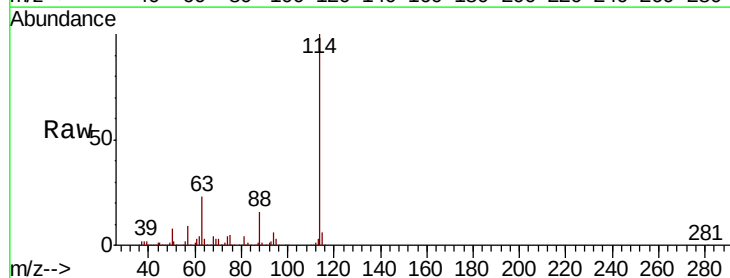
Instrument :
 MSVOA_N
 ClientSampled :
 KR-02 4-14

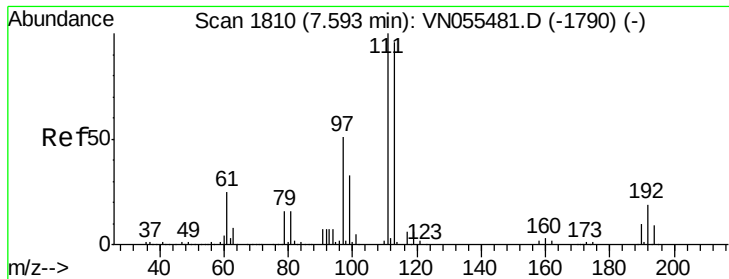
Tot Ion: 65 Resp: 609095
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055580.D
 Acq: 13 May 2019 17:26

Tgt Ion: 114 Resp: 1579199
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 47.4
 88 16.0 0.0 34.0





#35

Dibromofluoromethane

Concen: 47.431 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

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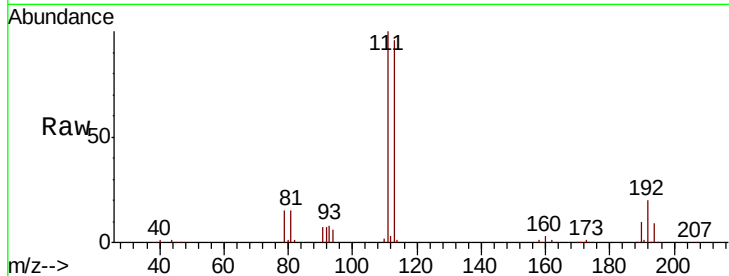
Tot Ion:113 Resp: 483186

Ion Ratio Lower Upper

113 100

111 104.7 82.9 124.3

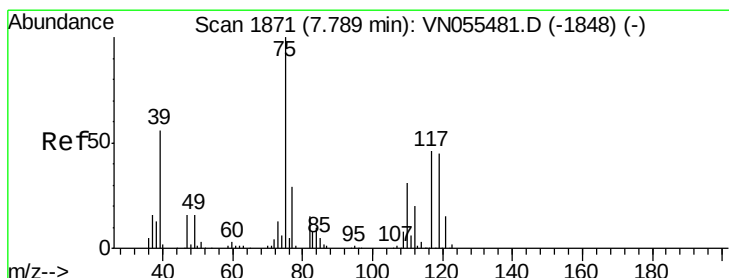
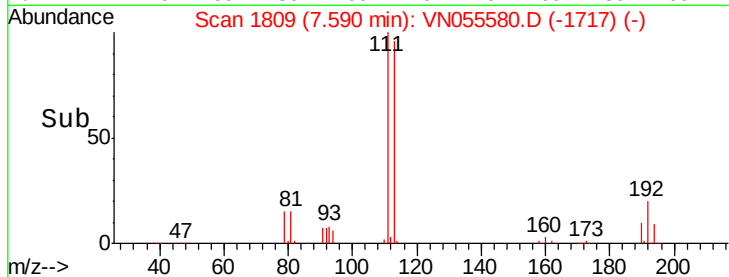
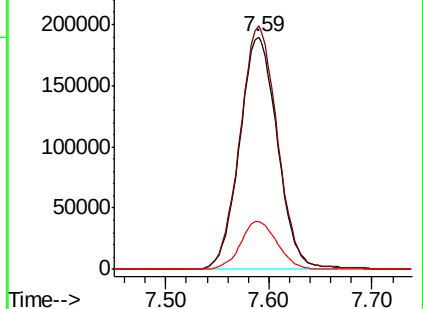
192 20.0 15.6 23.4



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: 4.741 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

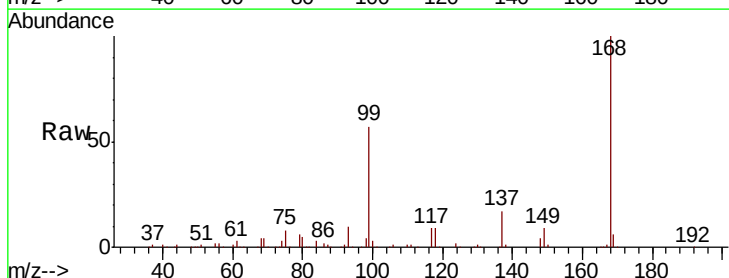
Tgt Ion: 75 Resp: 73753

Ion Ratio Lower Upper

75 100

110 8.2 16.1 48.3#

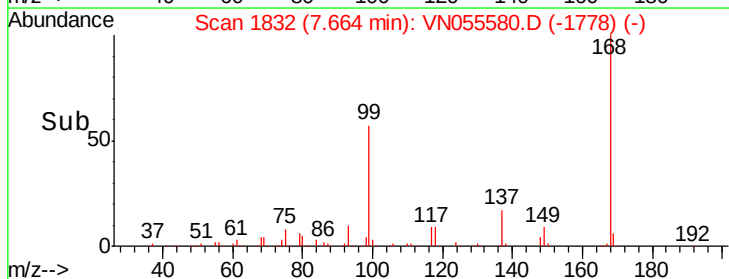
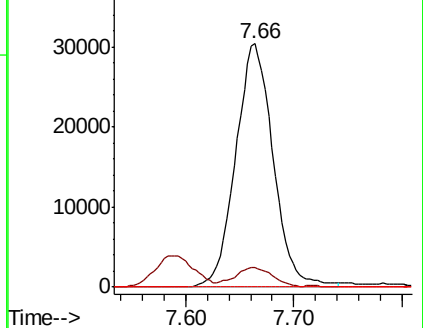
77 0.0 24.6 37.0#

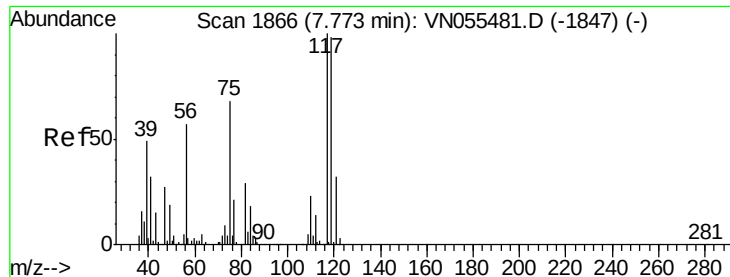


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.741 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

KR-02 4-14

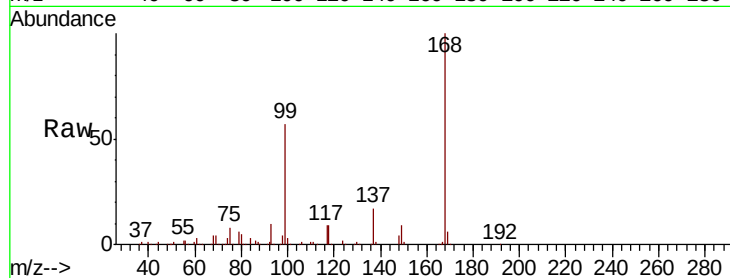
Tot Ion:117 Resp: 88304

Ion Ratio Lower Upper

117 100

119 4.5 77.8 116.6#

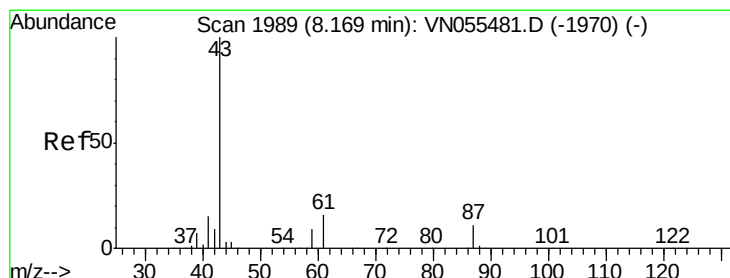
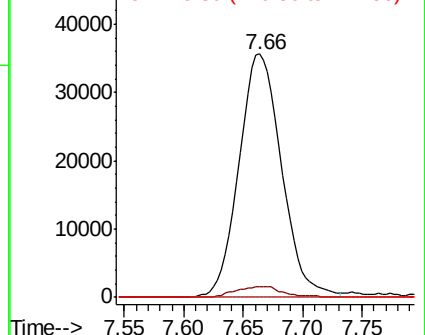
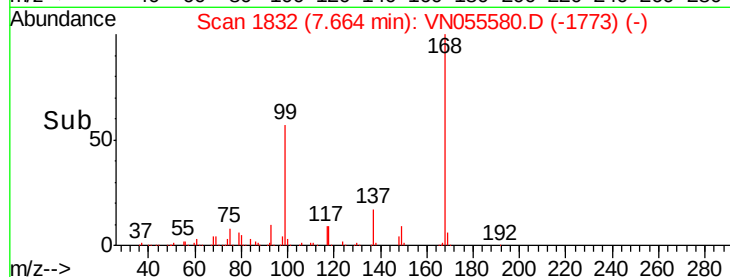
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.503 ug/l

RT: 8.29 min Scan# 2027

Delta R.T. 0.12 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

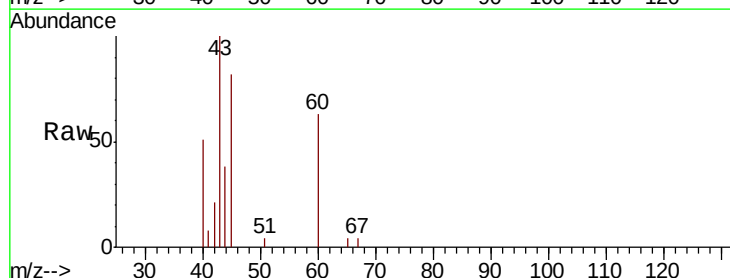
Tgt Ion: 43 Resp: 12966

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

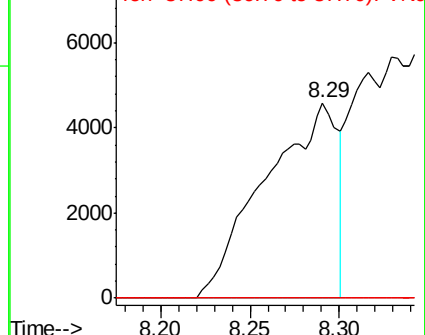
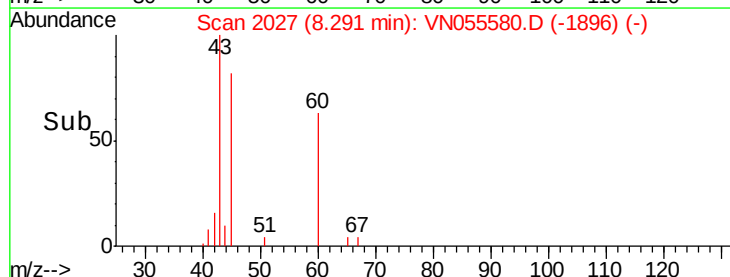
87 0.0 9.0 13.6#

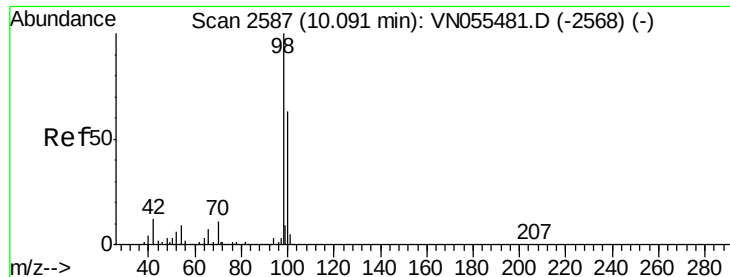


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 48.024 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

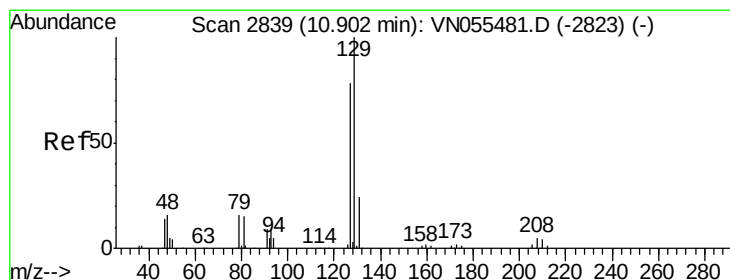
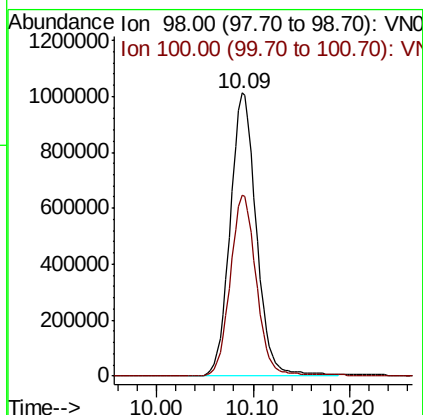
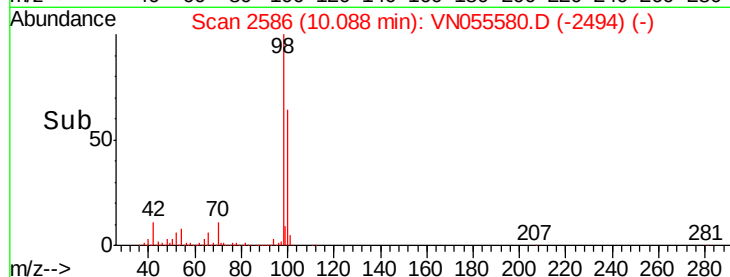
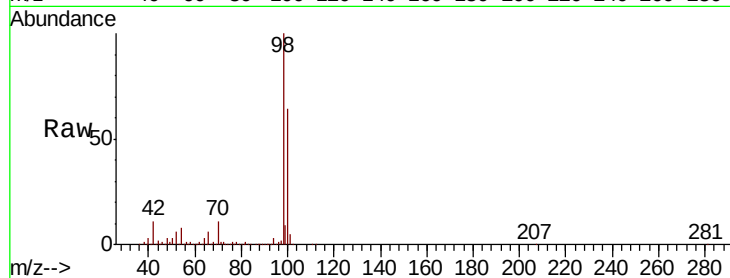
KR-02 4-14

Tot Ion: 98 Resp: 1906446

Ion Ratio Lower Upper

98 100

100 64.0 50.4 75.6



#60

Dibromochloromethane

Concen: 1.052 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN055580.D

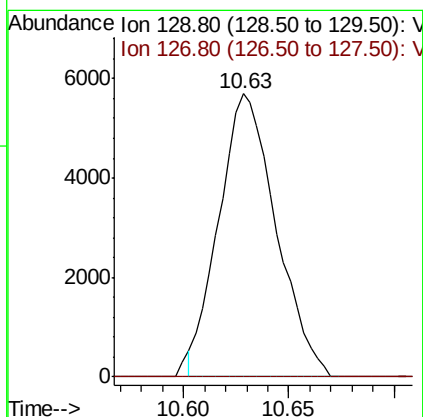
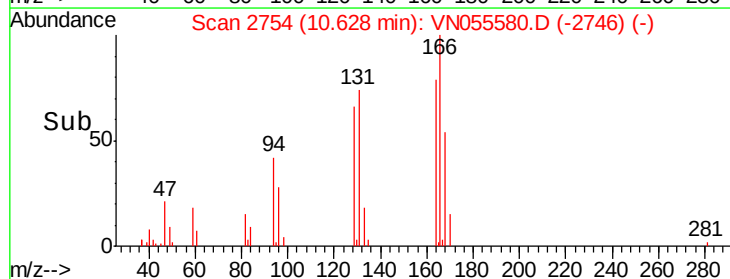
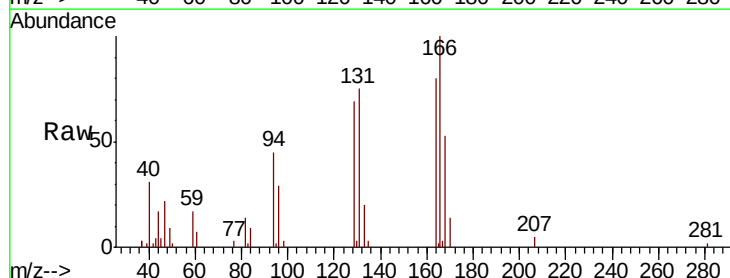
Acq: 13 May 2019 17:26

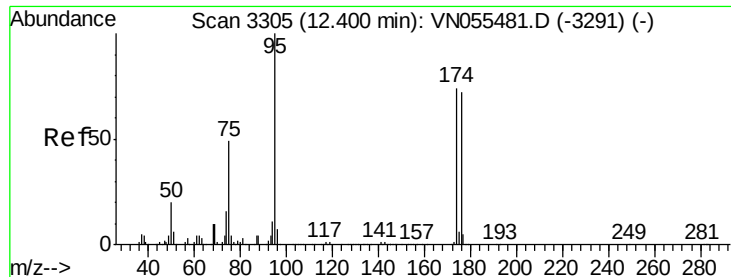
Tgt Ion: 129 Resp: 10699

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#

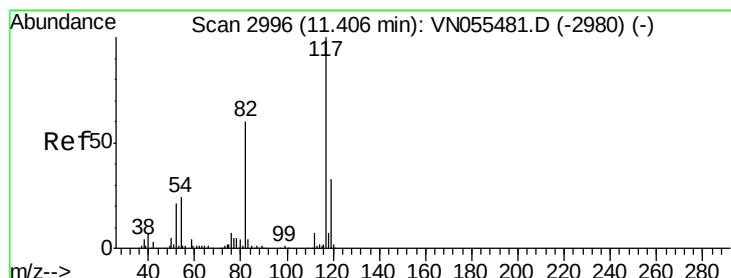
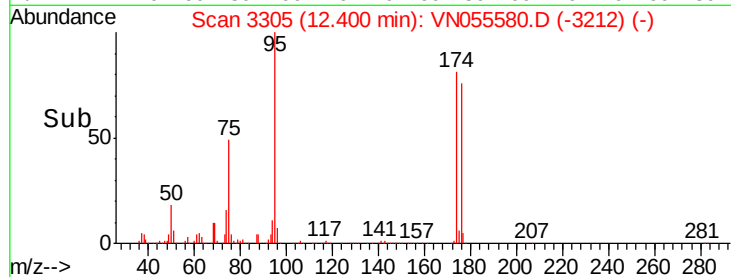
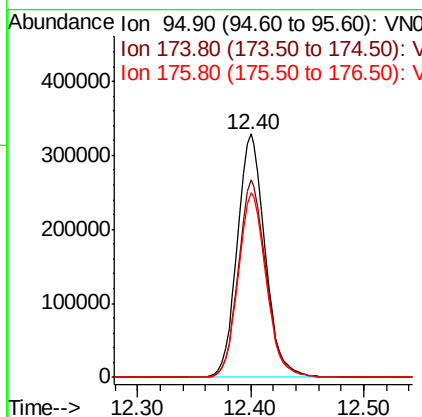
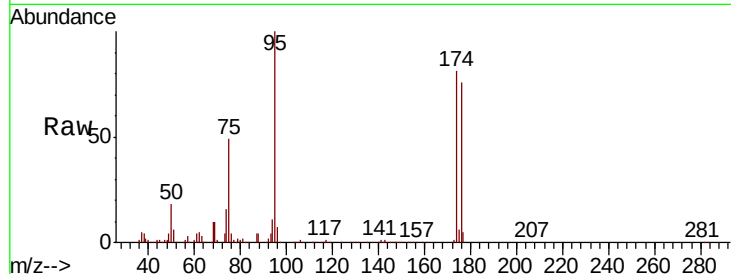




#62
4-Bromofluorobenzene
Concen: 42.039 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055580.D
Acq: 13 May 2019 17:26

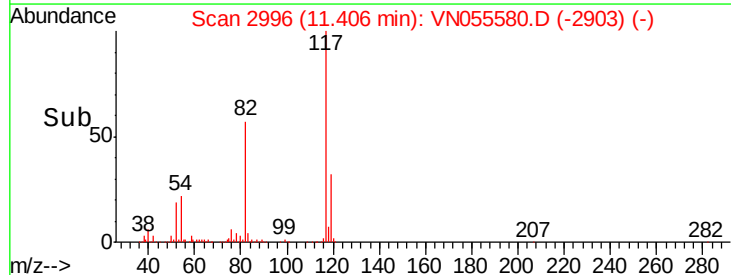
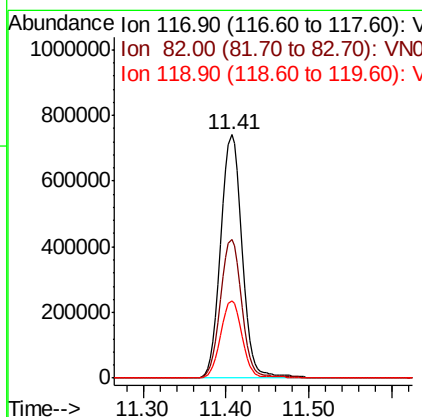
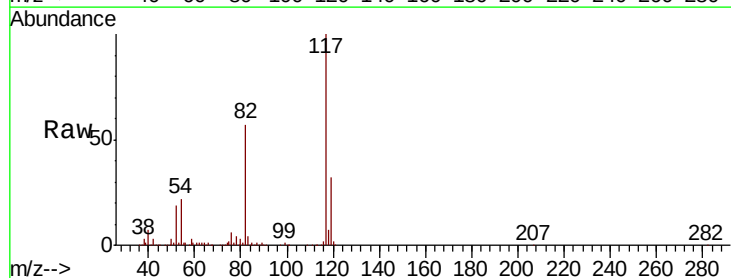
Instrument :
MSVOA_N
ClientSampled :
KR-02 4-14

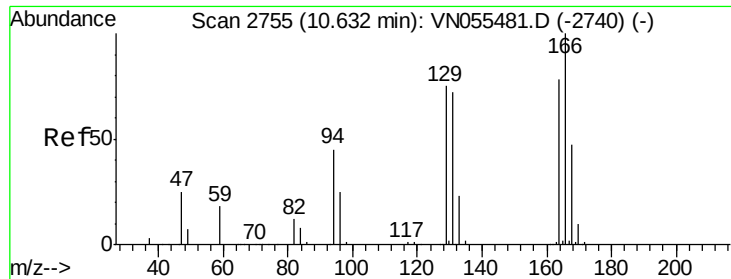
Tot Ion: 95 Resp: 562720
Ion Ratio Lower Upper
95 100
174 81.1 0.0 152.2
176 76.5 0.0 147.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055580.D
Acq: 13 May 2019 17:26

Tgt Ion: 117 Resp: 1324987
Ion Ratio Lower Upper
117 100
82 57.2 48.0 72.0
119 31.9 26.0 39.0





#64

Tetrachloroethene

Concen: 1.090 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

KR-02 4-14

Tot Ion:164 Resp: 11832

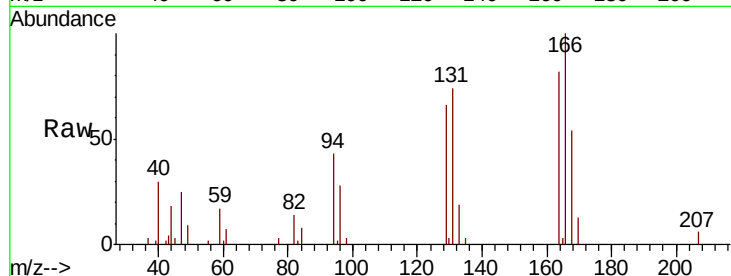
Ion Ratio Lower Upper

164 100

166 122.2 102.6 153.8

129 80.8 77.0 115.6

131 90.7 73.7 110.5



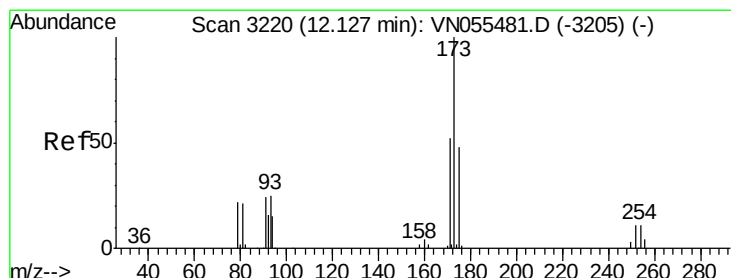
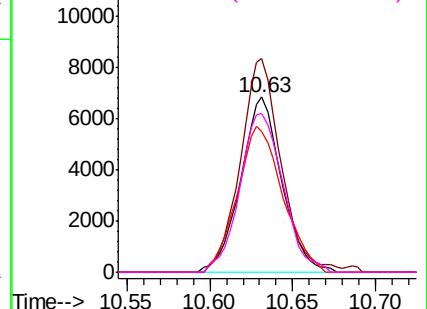
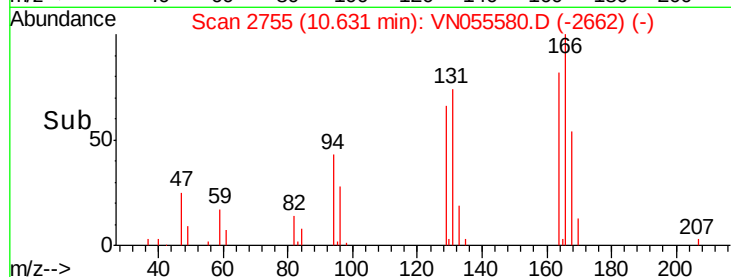
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.453 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

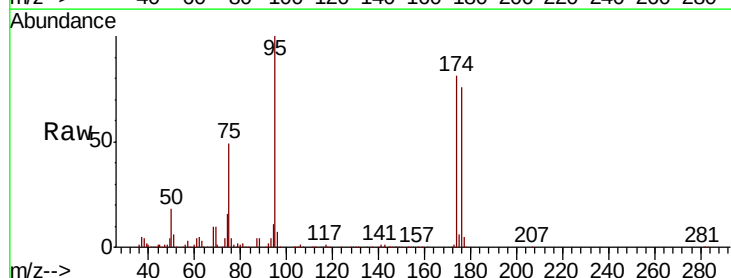
Tgt Ion:173 Resp: 2866

Ion Ratio Lower Upper

173 100

175 994.8 24.1 72.4#

254 0.0 0.1 0.1#

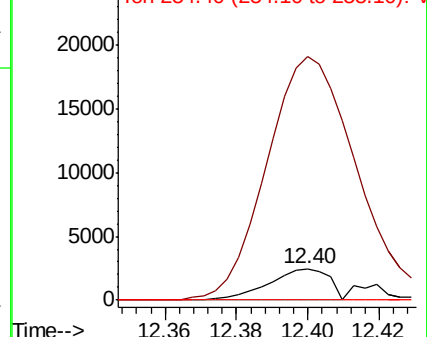
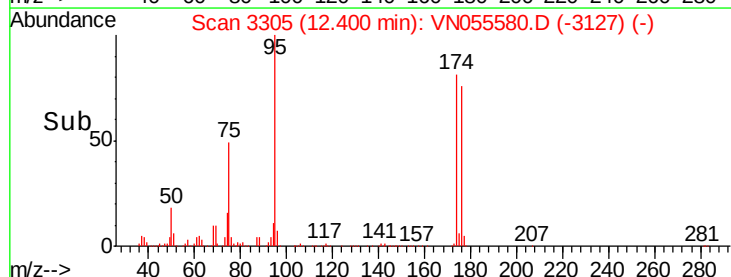


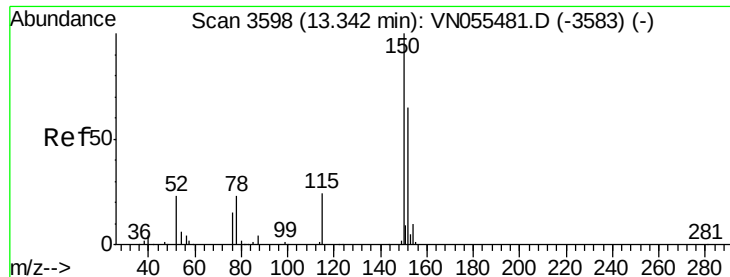
Abundance

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: VN055580.D

Acq: 13 May 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

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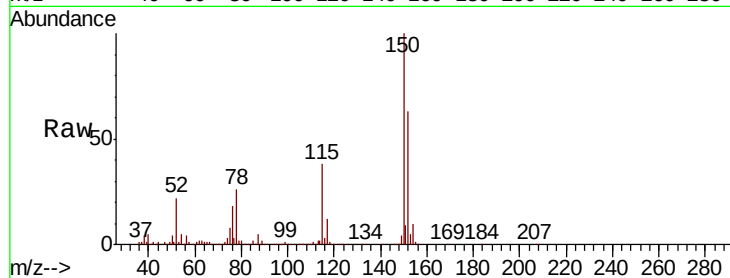
Tot Ion:152 Resp: 391586

Ion Ratio Lower Upper

152 100

115 58.9 30.1 90.5

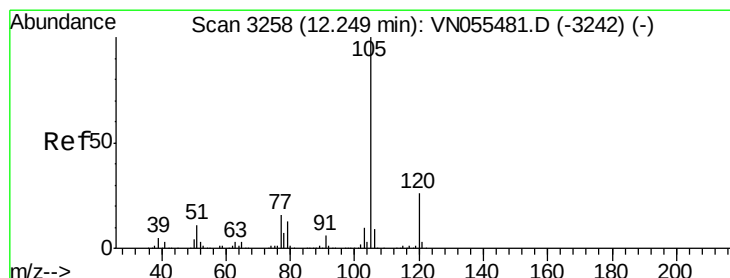
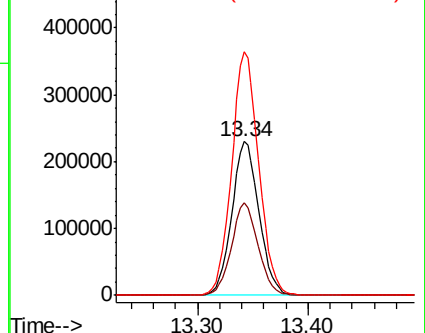
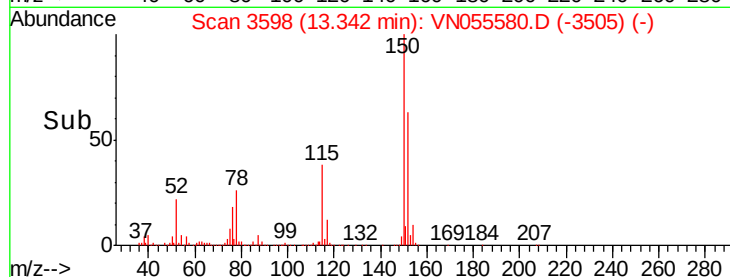
150 158.0 0.0 355.0



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: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055580.D

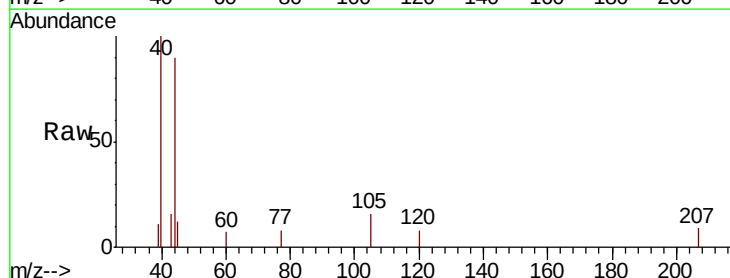
Acq: 13 May 2019 17:26

Tgt Ion:105 Resp: 405

Ion Ratio Lower Upper

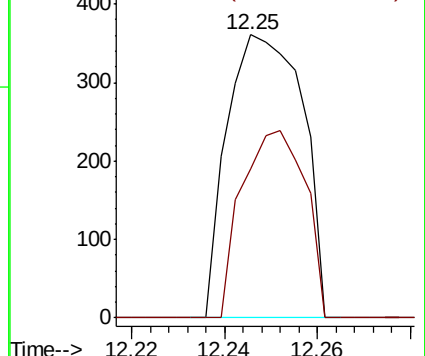
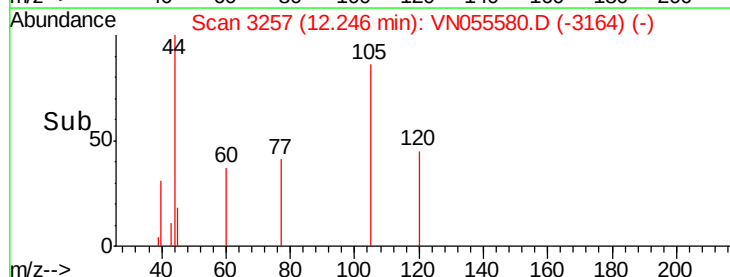
105 100

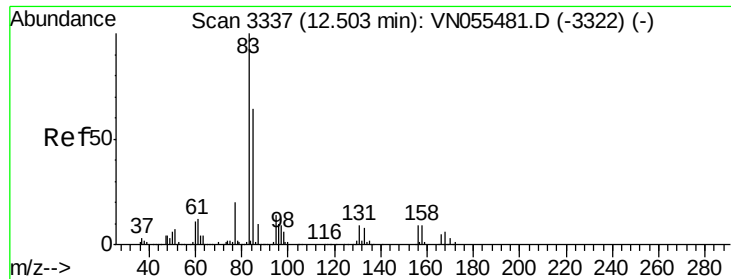
120 55.8 13.0 39.0#



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: 12.50 min Scan# 3335

Delta R.T. -0.01 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

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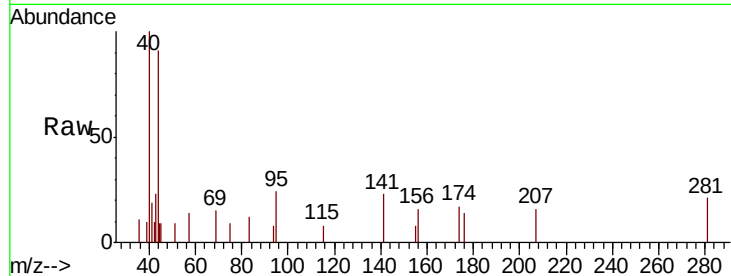
Tot Ion: 83 Resp: 83

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

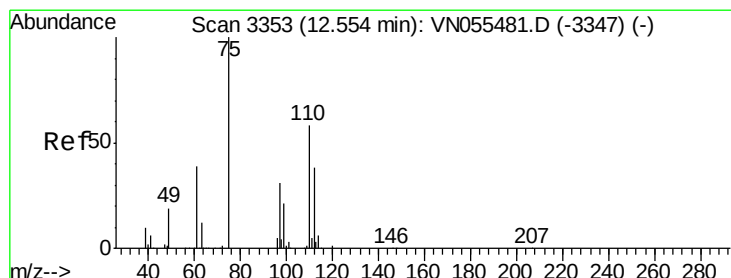
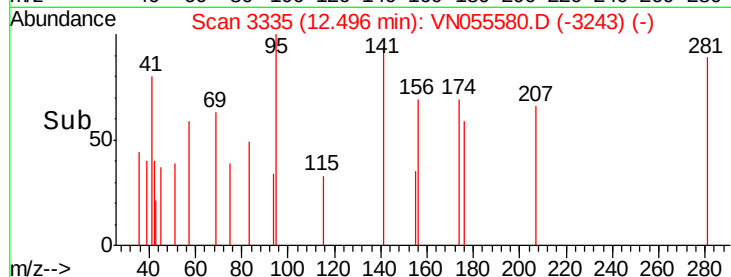
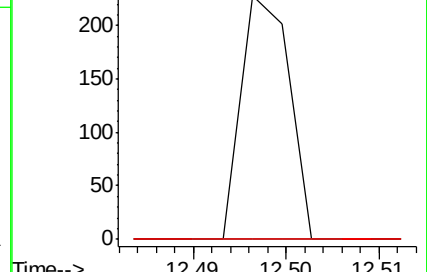
85 0.0 32.0 96.0#



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: 25.989 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055580.D

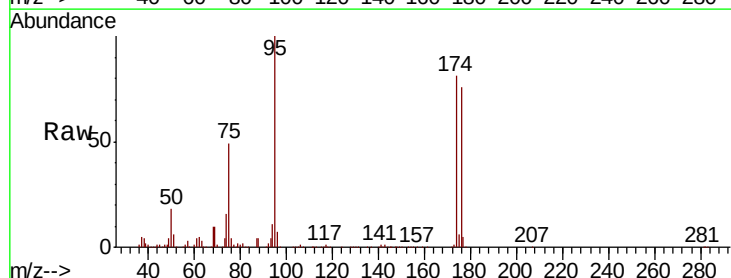
Acq: 13 May 2019 17:26

Tgt Ion: 75 Resp: 277053

Ion Ratio Lower Upper

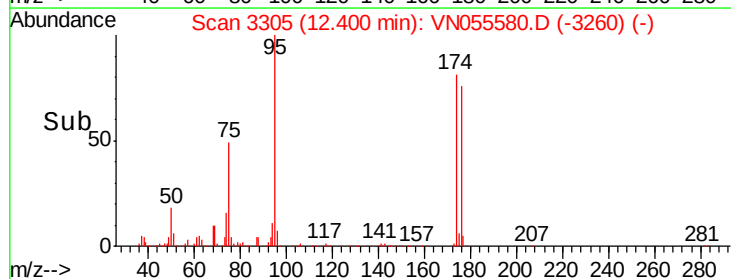
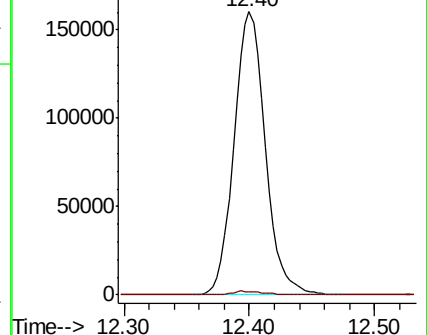
75 100

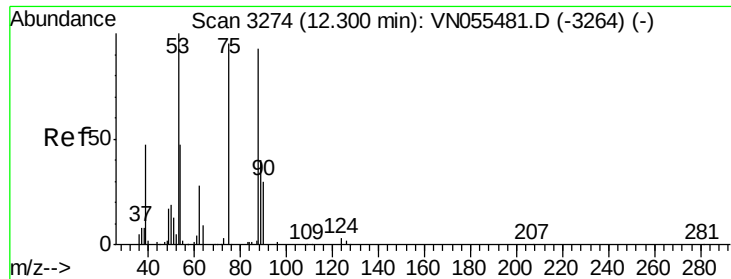
77 1.3 0.0 0.0#



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: 95.897 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

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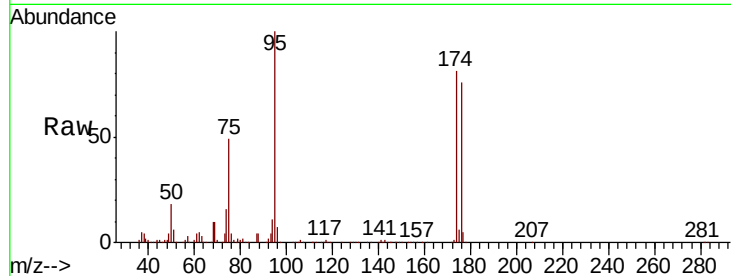
Tot Ion: 75 Resp: 277053

Ion Ratio Lower Upper

75 100

53 0.0 86.5 129.7#

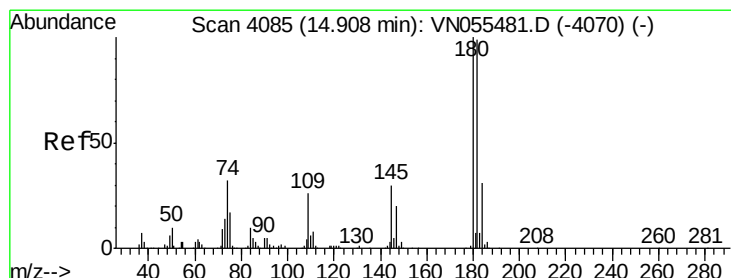
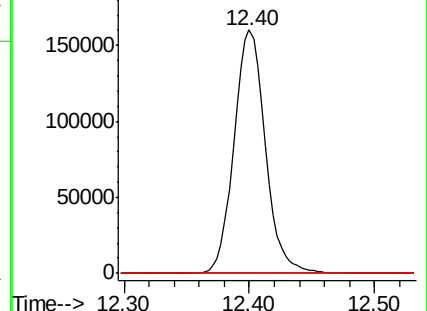
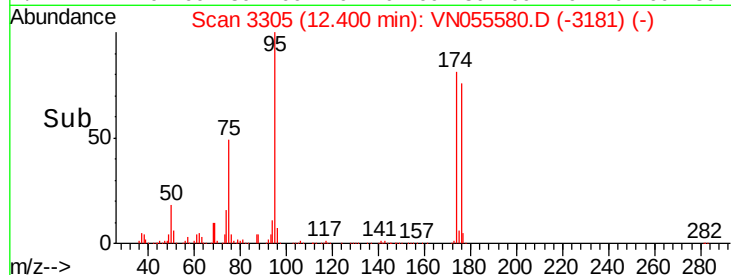
89 0.0 35.7 53.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 3.295 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

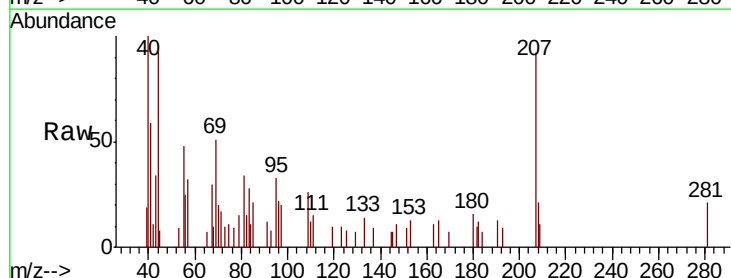
Tgt Ion:180 Resp: 559

Ion Ratio Lower Upper

180 100

182 112.0 48.7 146.1

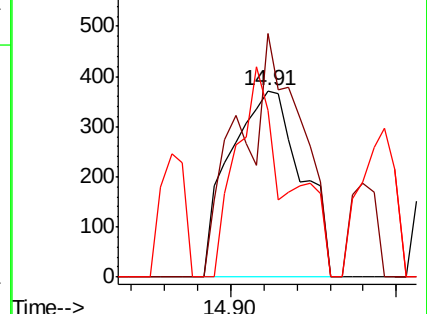
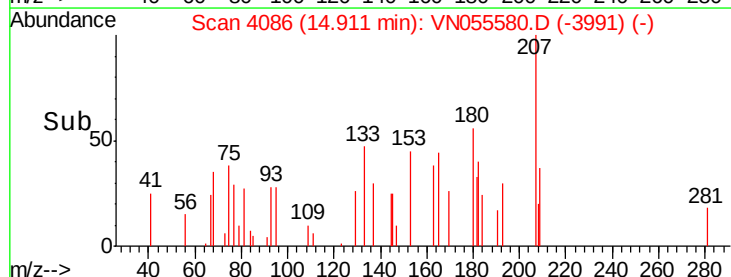
145 61.5 15.3 45.9#

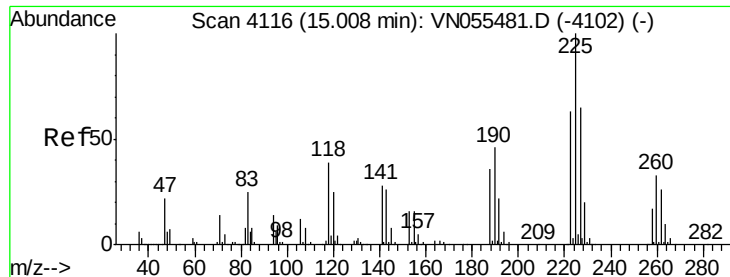


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

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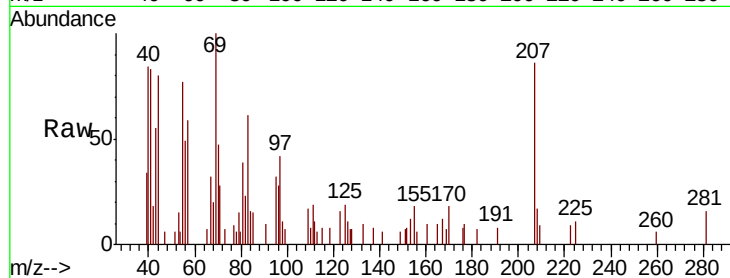
Tot Ion:225 Resp: 341

Ion Ratio Lower Upper

225 100

223 50.1 31.4 94.3

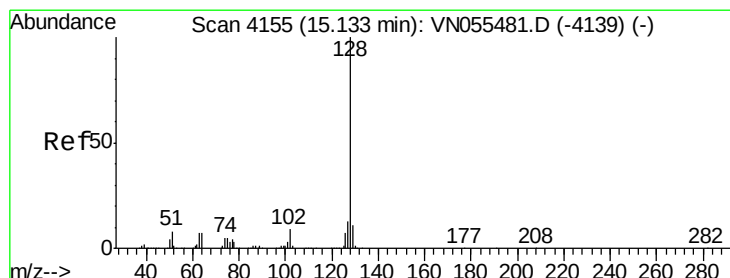
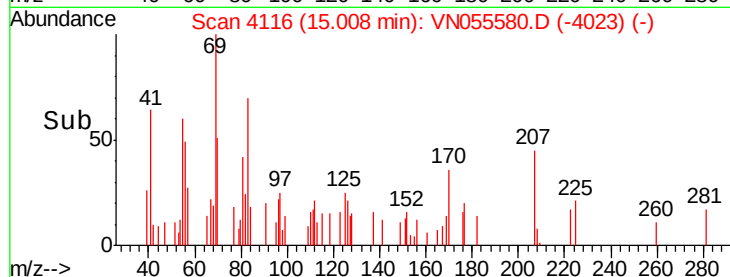
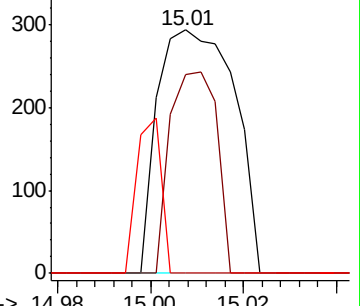
227 19.9 32.0 96.0#



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: 3.141 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN055580.D

Acq: 13 May 2019 17:26

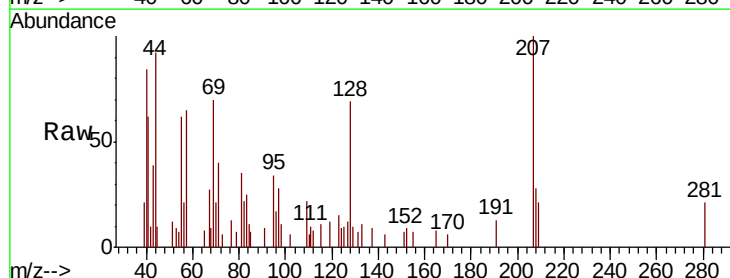
Tgt Ion:128 Resp: 3541

Ion Ratio Lower Upper

128 100

127 11.0 10.0 15.0

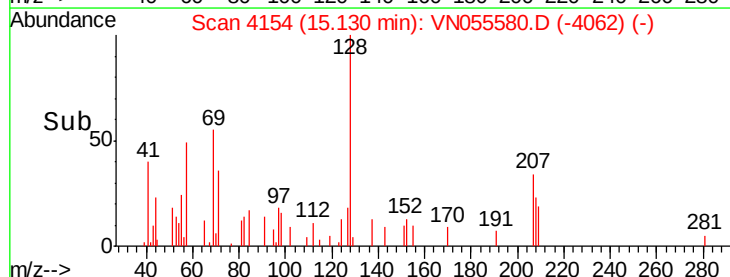
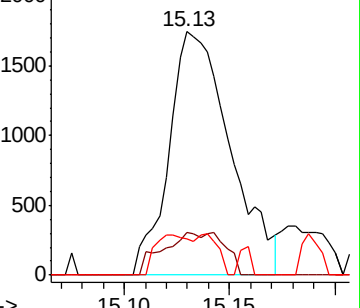
129 9.8 8.8 13.2

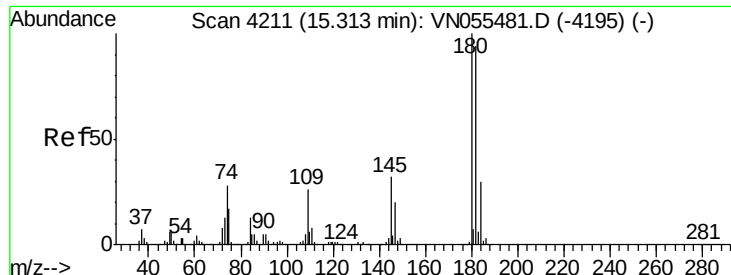


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

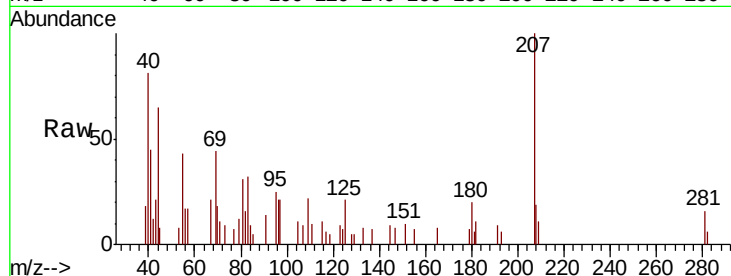




#96
 1,2,3-Trichlorobenzene
 Concen: 2.559 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN055580.D
 Acq: 13 May 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 KR-02_4-14

Tot Ion	Ratio	Lower	Upper
180	100		
182	40.2	47.1	141.3#
145	29.7	15.8	47.4



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

