

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051319\
 Data File : VN055579.D
 Acq On : 13 May 2019 17:01
 Operator : JC/SP
 Sample : K2840-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 KR-03_10-20

Quant Time: May 14 01:49:33 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	951276	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1599724	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1335146	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	422540	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	604856	42.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.46%	
35) Dibromofluoromethane	7.59	113	484327	46.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.86%	
50) Toluene-d8	10.09	98	1931087	48.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.04%	
62) 4-Bromofluorobenzene	12.40	95	578500	42.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.32%	

Target Compounds

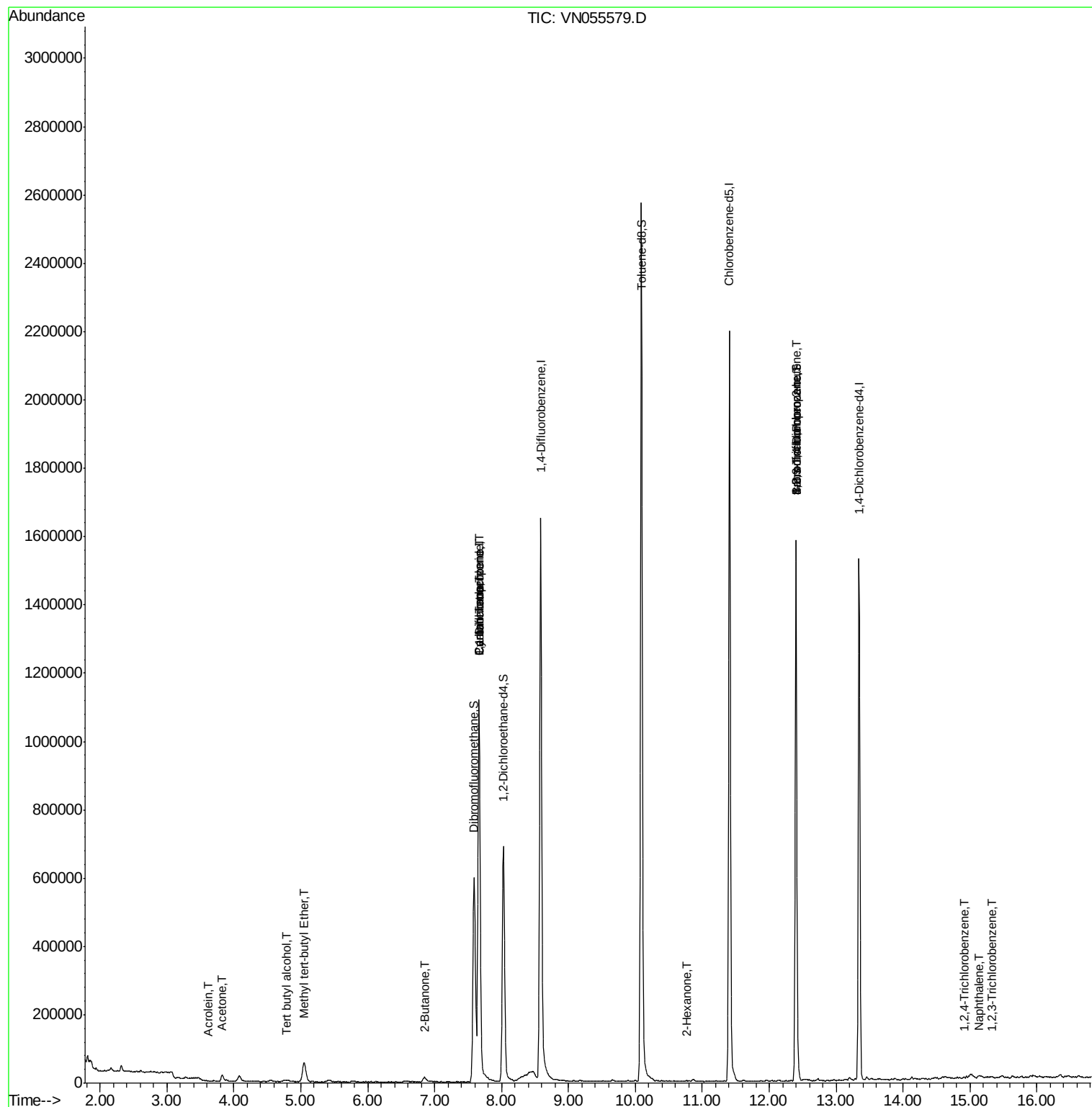
						Qvalue
11) Tert butyl alcohol	4.80	59	506	0.239	ug/l #	73
13) Acrolein	3.61	56	333	0.236	ug/l #	50
16) Acetone	3.83	43	33728	5.086	ug/l	96
18) Methyl Acetate	4.34	43	342	Below Cal	#	56
19) Methyl tert-butyl Ether	5.05	73	94662	2.740	ug/l	93
25) 2-Butanone	6.85	43	5660	0.618	ug/l	99
31) Cyclohexane	7.66	56	19255	0.833	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	73853	4.686	ug/l #	50
38) Carbon Tetrachloride	7.66	117	87941	6.627	ug/l #	15
59) 2-Hexanone	10.76	43	2414	0.200	ug/l	96
71) Bromoform	12.40	173	3912	0.613	ug/l #	1
73) Isopropylbenzene	12.25	105	1464	Below Cal		82
75) 1,1,2,2-Tetrachloroethane	12.52	83	105	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	282860	24.590	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	282860	90.734	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	602	3.295	ug/l #	45
94) Hexachlorobutadiene	15.00	225	488	Below Cal		88
95) Naphthalene	15.13	128	6791	3.300	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.31	180	1089	2.576	ug/l	90

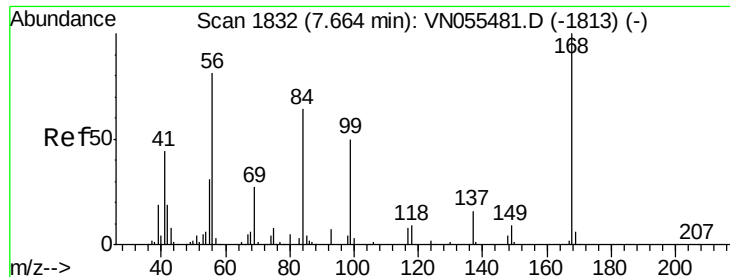
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 10 06:48:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055579.D

Acq: 13 May 2019 17:01

Instrument :

MSVOA_N

ClientSampleId :

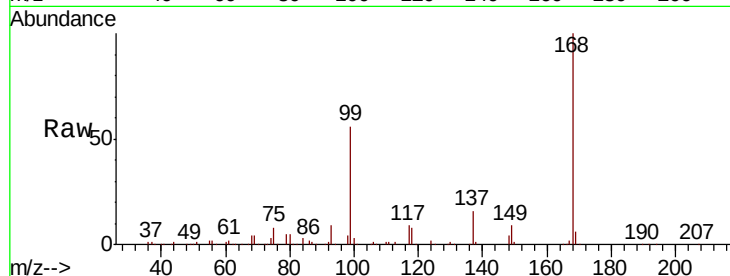
KR-03_10-20

Tot Ion:168 Resp: 951276

Ion Ratio Lower Upper

168 100

99 55.7 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): VN055579.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055579.D (-1739) (-)

7.66

400000

300000

200000

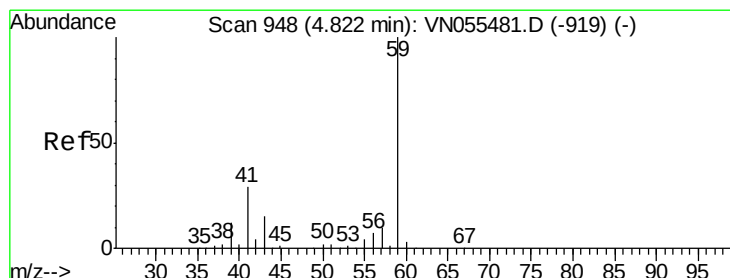
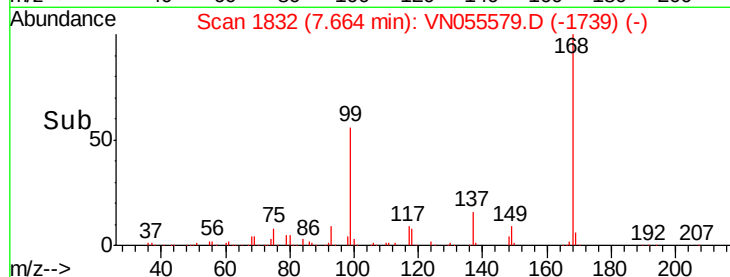
100000

0

7.60

7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.239 ug/l

RT: 4.80 min Scan# 940

Delta R.T. -0.03 min

Lab File: VN055579.D

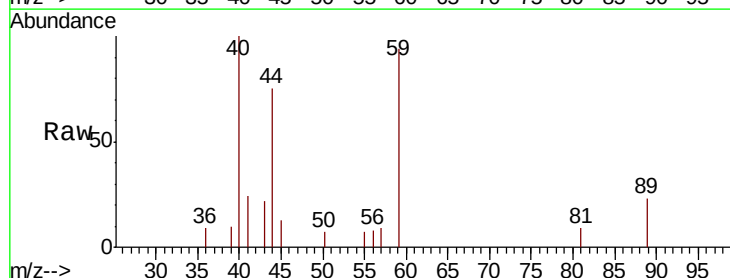
Acq: 13 May 2019 17:01

Tgt Ion: 59 Resp: 506

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN055579.D (-855) (-)

Ion 57.00 (56.70 to 57.70): VN055579.D (-855) (-)

4.80

2000

1500

1000

500

0

4.77

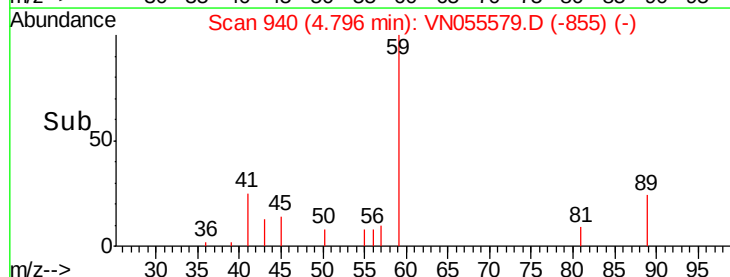
4.78

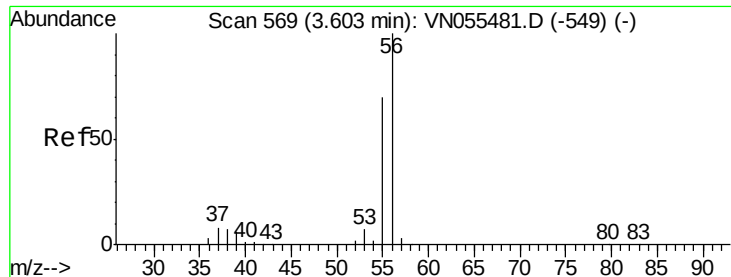
4.79

4.80

4.81

Time-->





#13

Acrolein

Concen: 0.236 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN055579.D

Acq: 13 May 2019 17:01

Instrument :

MSVOA_N

ClientSampled :

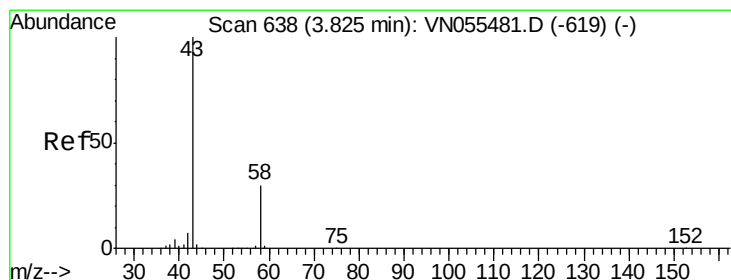
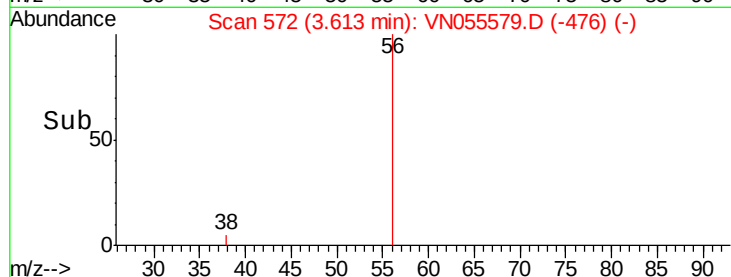
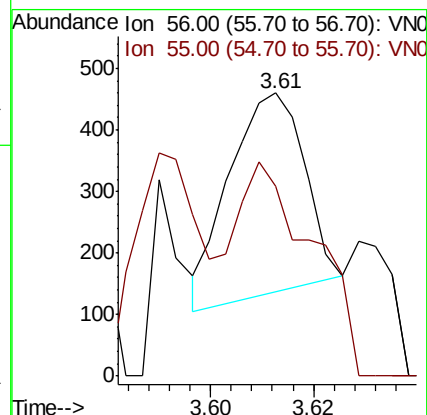
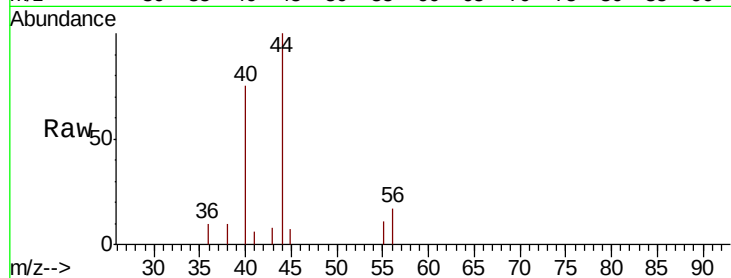
KR-03 10-20

Tot Ion: 56 Resp: 333

Ion Ratio Lower Upper

56 100

55 113.5 57.7 86.5#



#16

Acetone

Concen: 5.086 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.00 min

Lab File: VN055579.D

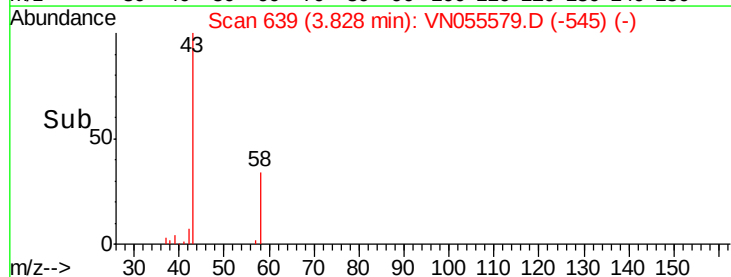
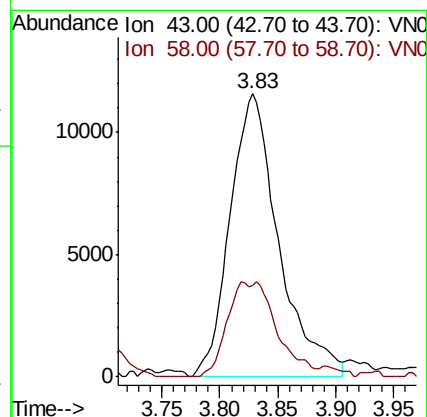
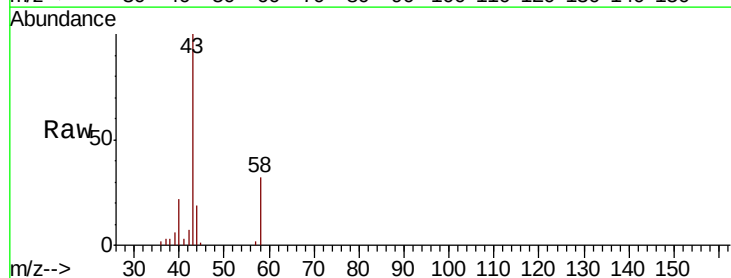
Acq: 13 May 2019 17:01

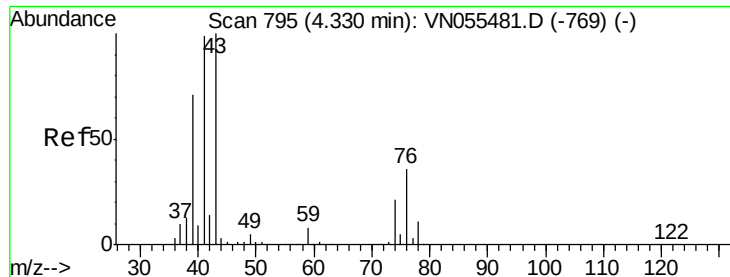
Tgt Ion: 43 Resp: 33728

Ion Ratio Lower Upper

43 100

58 32.5 24.2 36.2

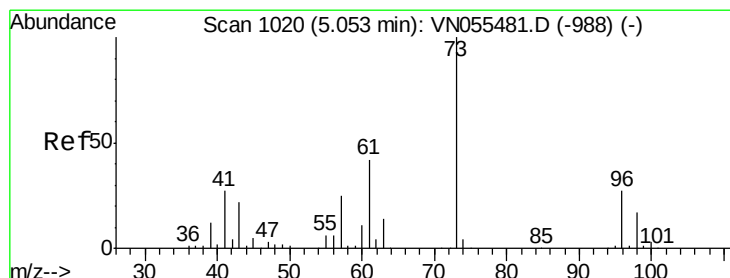
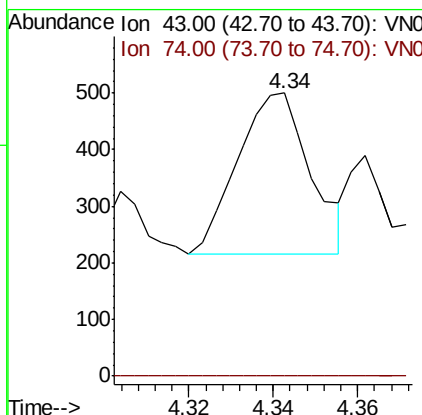
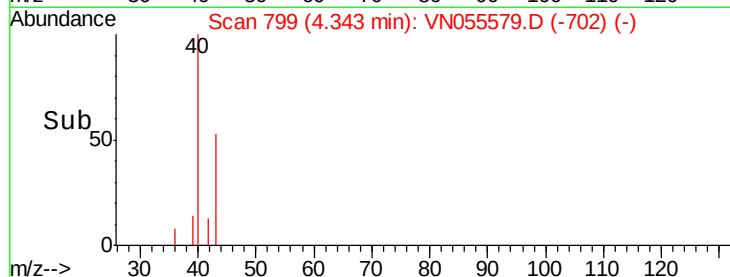
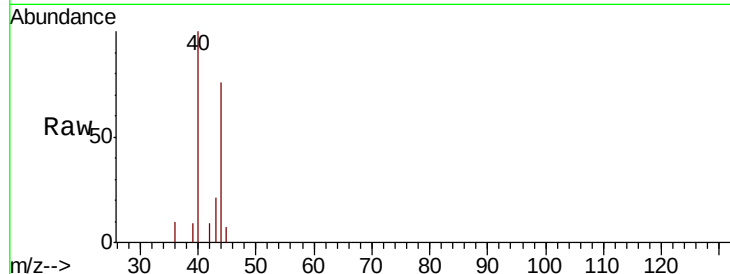




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN055579.D
Acq: 13 May 2019 17:01

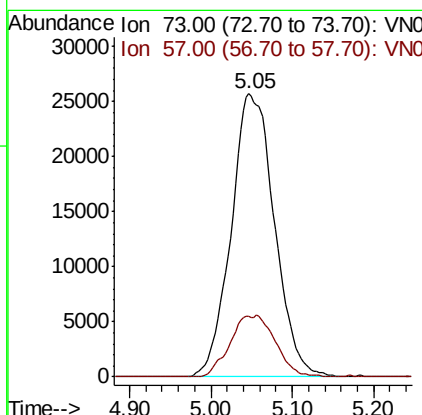
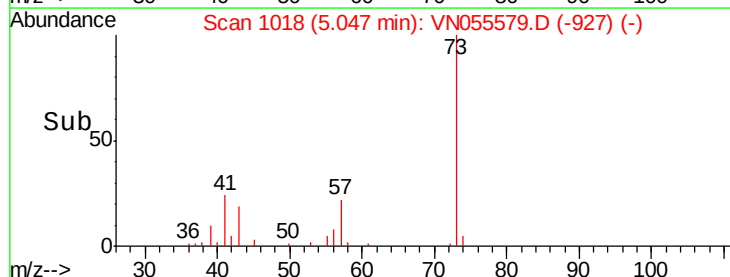
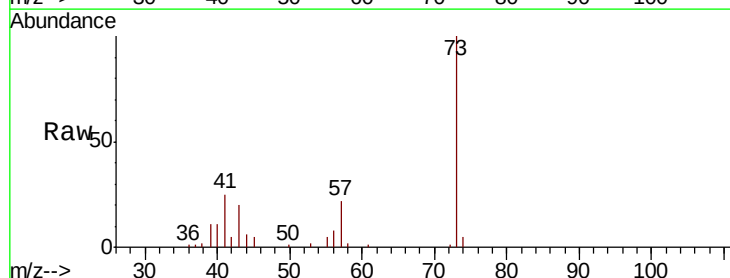
Instrument :
MSVOA_N
ClientSampled :
KR-03 10-20

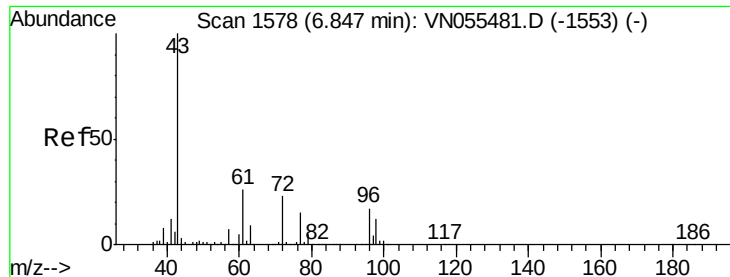
Tot Ion: 43 Resp: 342
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#19
Methyl tert-butyl Ether
Concen: 2.740 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.01 min
Lab File: VN055579.D
Acq: 13 May 2019 17:01

Tgt Ion: 73 Resp: 94662
Ion Ratio Lower Upper
73 100
57 21.6 20.0 30.0

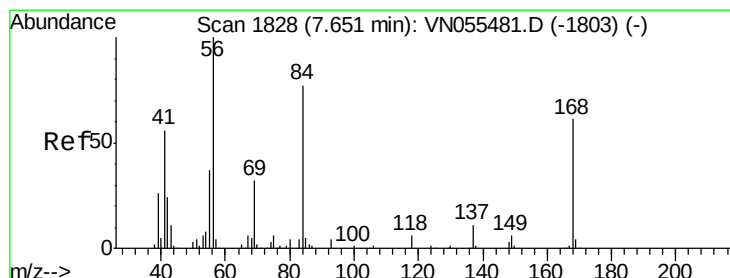
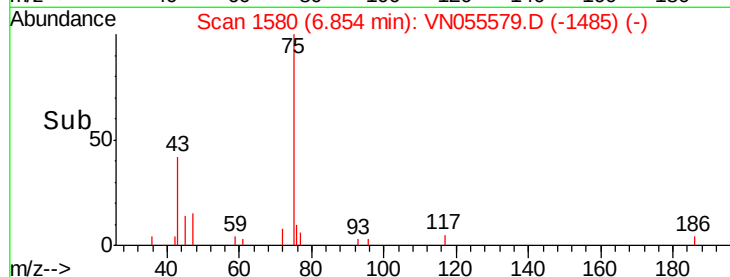
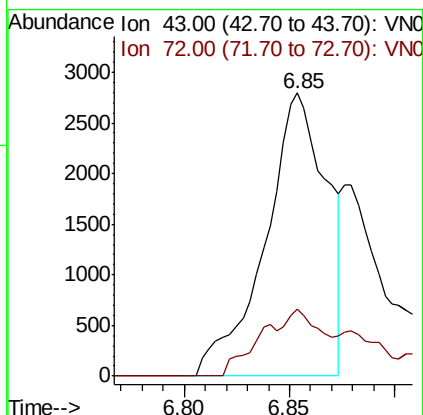
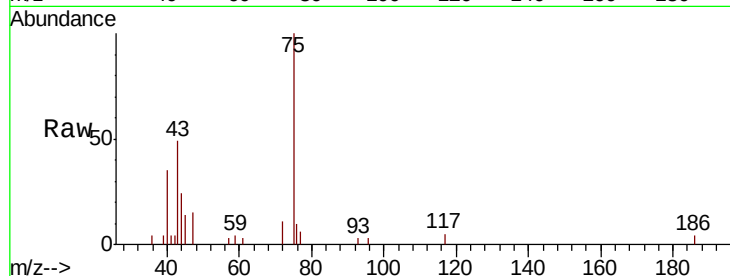




#25
2-Butanone
Concen: 0.618 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN055579.D
Acq: 13 May 2019 17:01

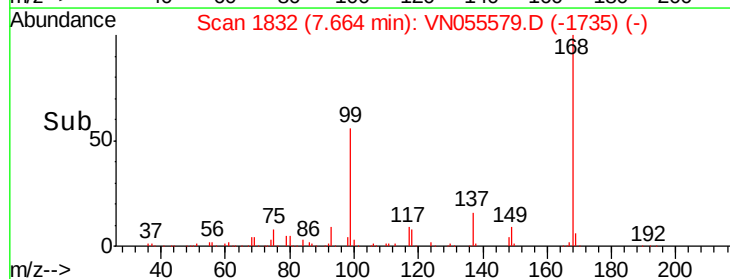
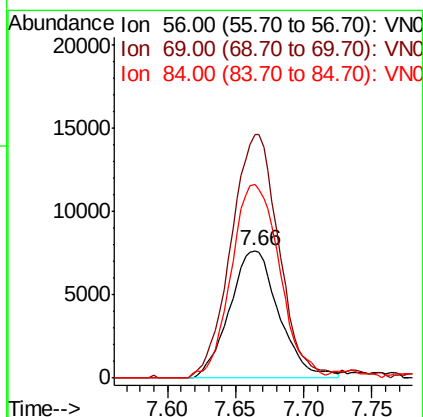
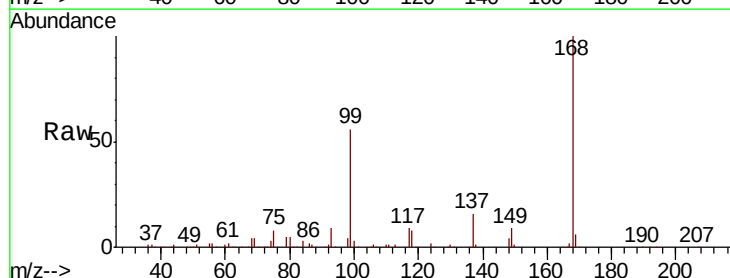
Instrument :
MSVOA_N
ClientSampled :
KR-03_10-20

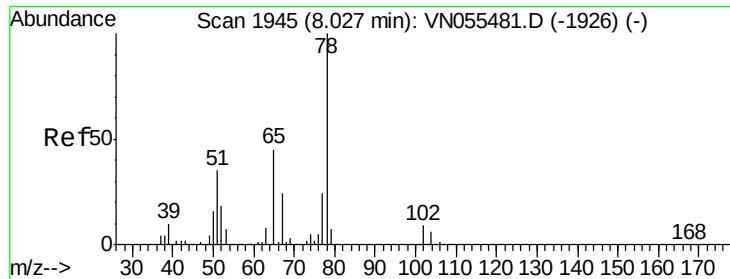
Tot Ion: 43 Resp: 5660
Ion Ratio Lower Upper
43 100
72 23.6 18.6 27.8



#31
Cyclohexane
Concen: 0.833 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN055579.D
Acq: 13 May 2019 17:01

Tgt Ion: 56 Resp: 19255
Ion Ratio Lower Upper
56 100
69 191.3 26.0 39.0#
84 152.7 61.9 92.9#

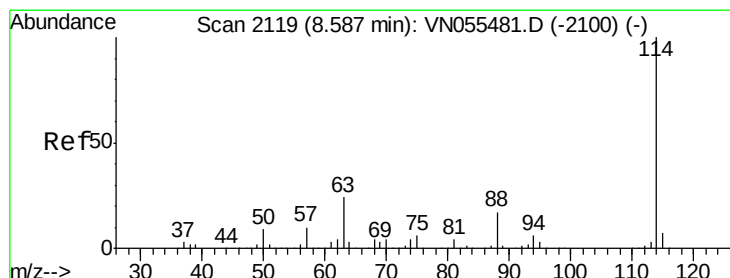
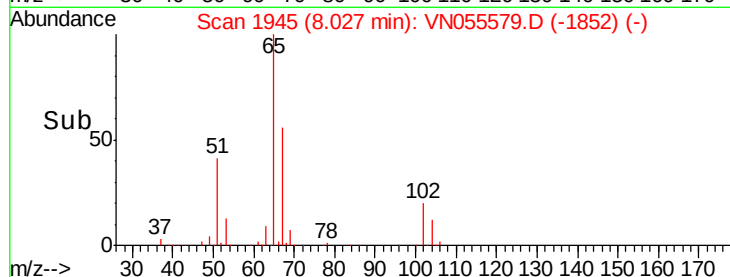
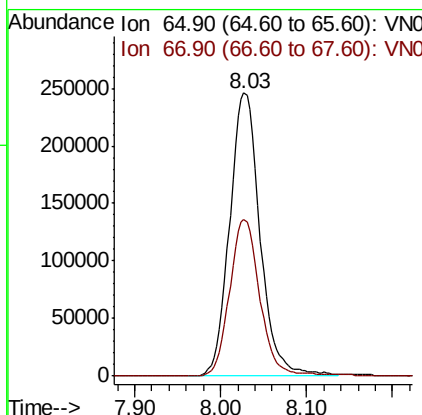
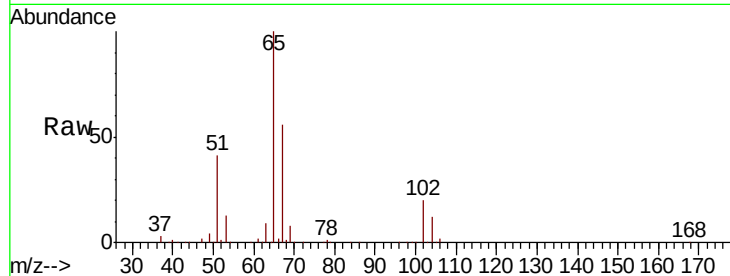




#33
 1,2-Dichloroethane-d4
 Concen: 42.230 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055579.D
 Acq: 13 May 2019 17:01

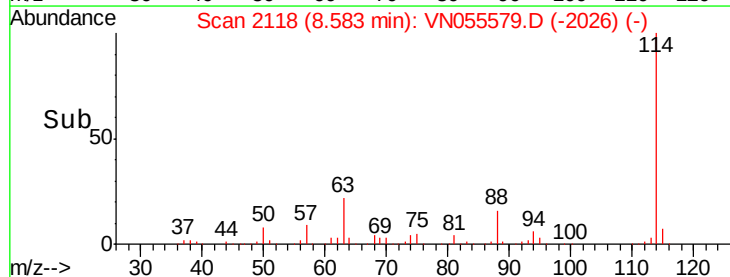
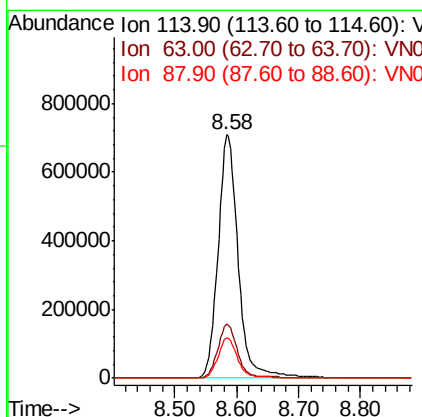
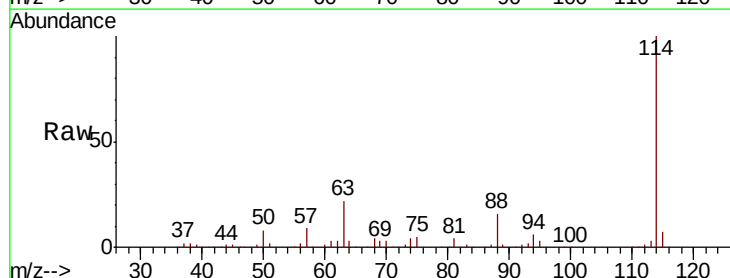
Instrument :
 MSVOA_N
 ClientSampled :
 KR-03_10-20

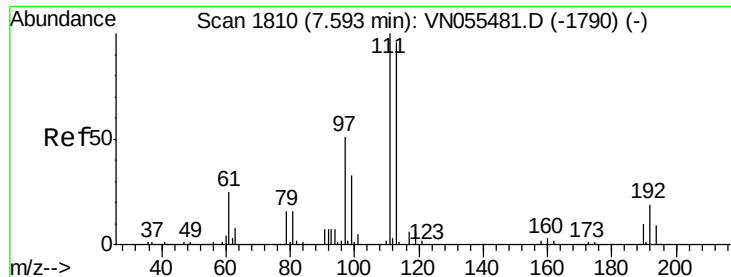
Tot Ion: 65 Resp: 604856
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055579.D
 Acq: 13 May 2019 17:01

Tgt Ion: 114 Resp: 1599724
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 47.4
 88 16.3 0.0 34.0

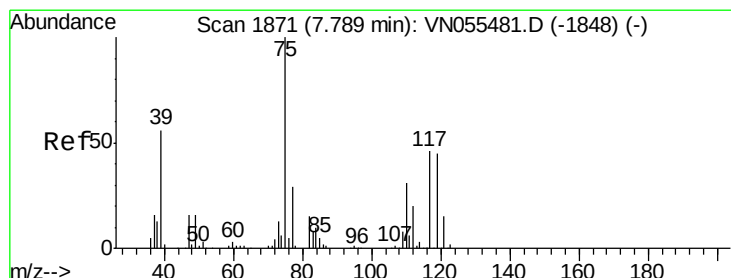
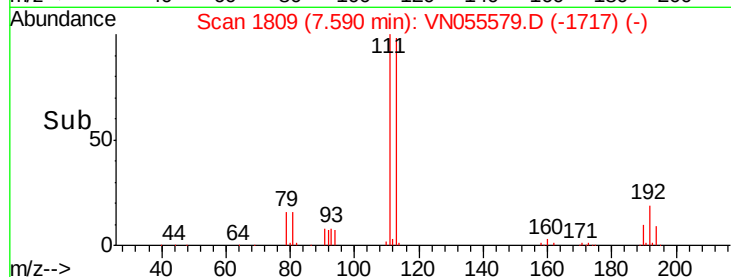
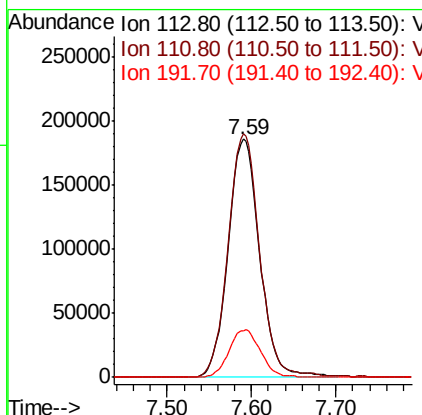
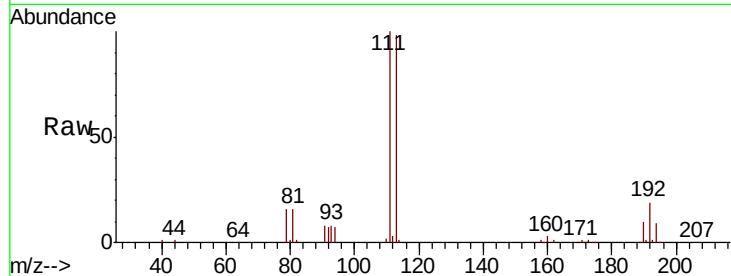




#35
 Dibromofluoromethane
 Concen: 46.933 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055579.D
 Acq: 13 May 2019 17:01

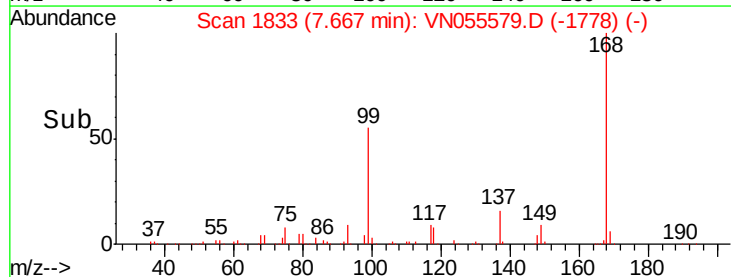
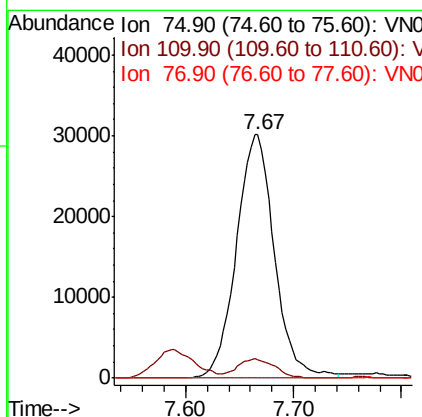
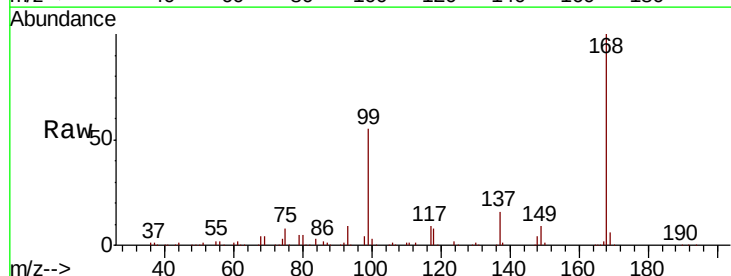
Instrument :
 MSVOA_N
 ClientSampleId :
 KR-03_10-20

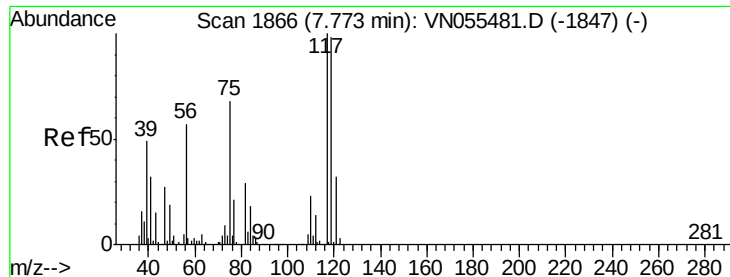
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.9	124.3
192	20.0	15.6	23.4



#36
 1,1-Dichloropropene
 Concen: 4.686 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055579.D
 Acq: 13 May 2019 17:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	16.1	48.3#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.627 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055579.D

Acq: 13 May 2019 17:01

Instrument :

MSVOA_N

ClientSampleId :

KR-03_10-20

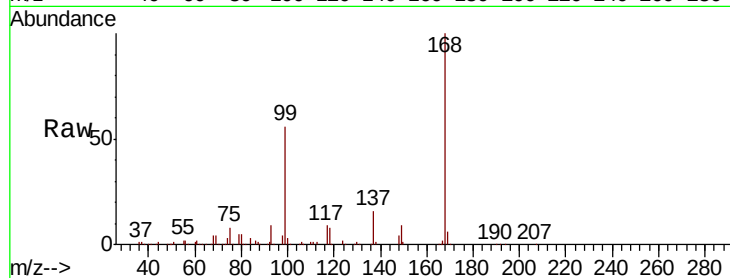
Tot Ion:117 Resp: 87941

Ion Ratio Lower Upper

117 100

119 4.7 77.8 116.6#

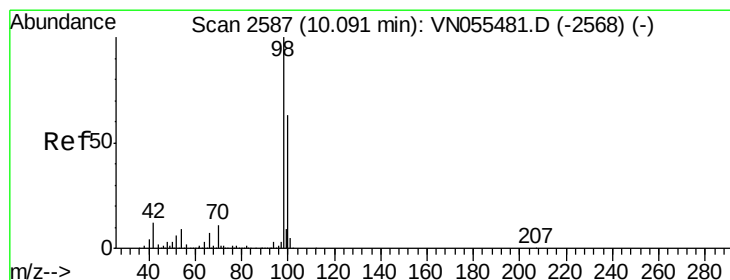
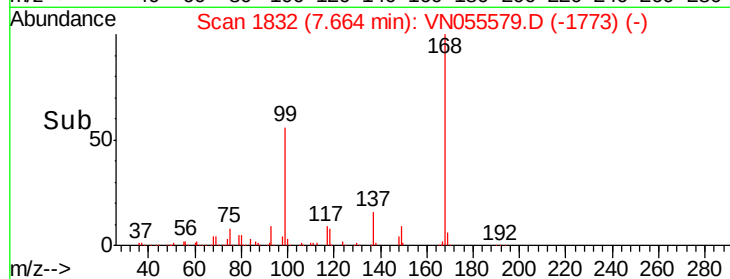
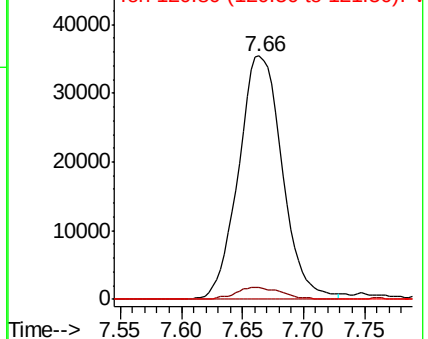
121 0.0 25.2 37.8#



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



#50

Toluene-d8

Concen: 48.020 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055579.D

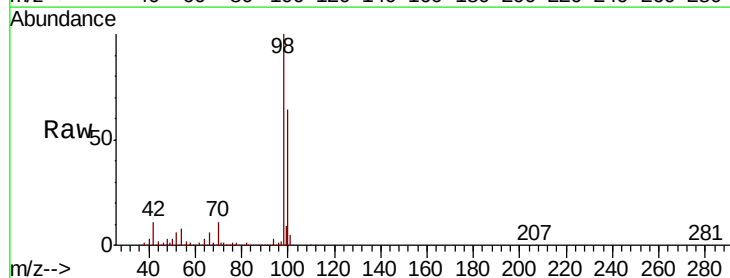
Acq: 13 May 2019 17:01

Tgt Ion: 98 Resp: 1931087

Ion Ratio Lower Upper

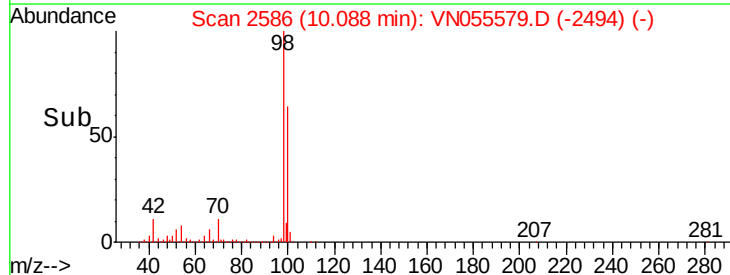
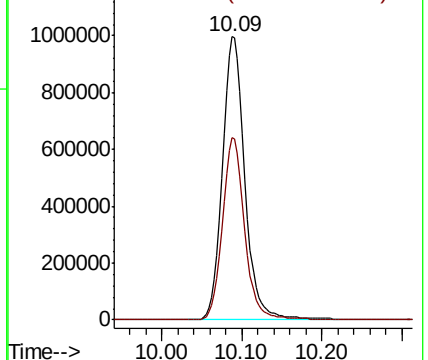
98 100

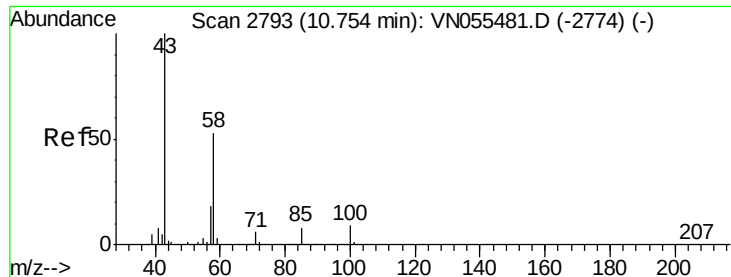
100 63.5 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

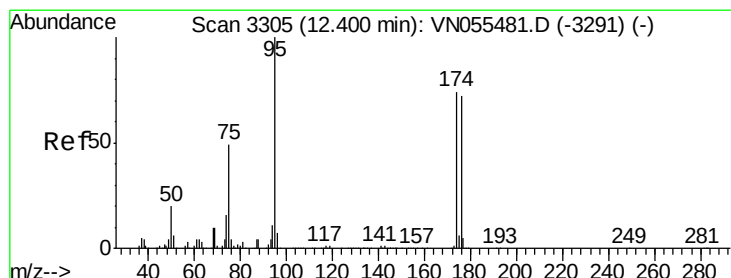
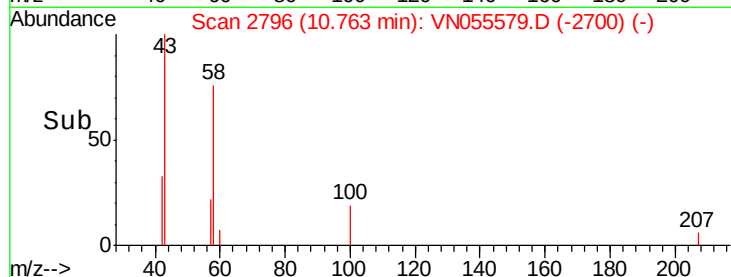
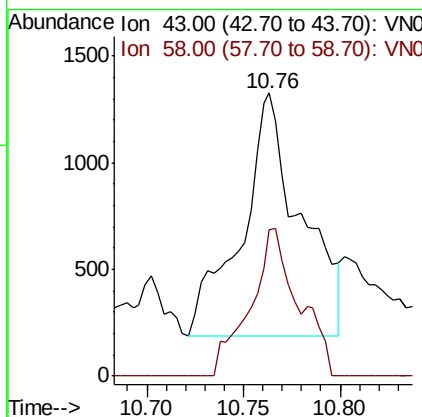
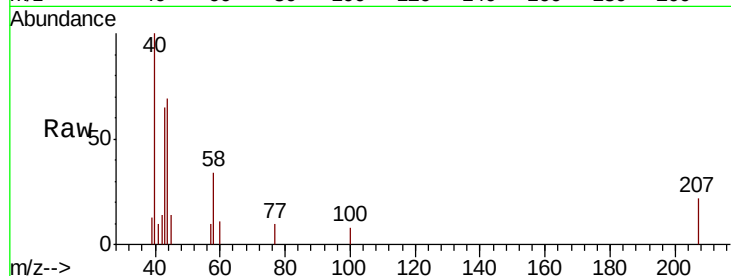




#59
2-Hexanone
Concen: 0.200 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN055579.D
Acq: 13 May 2019 17:01

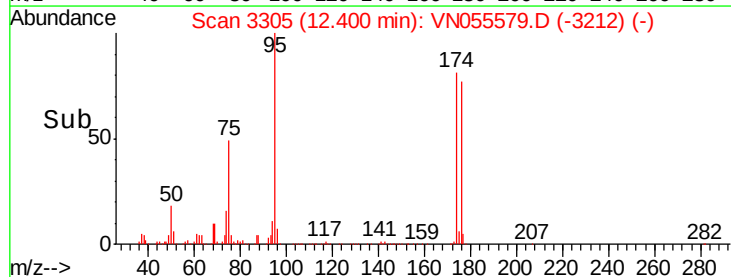
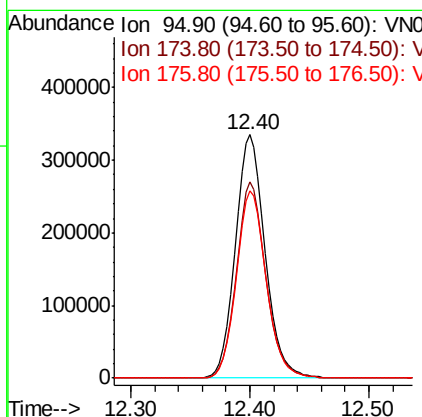
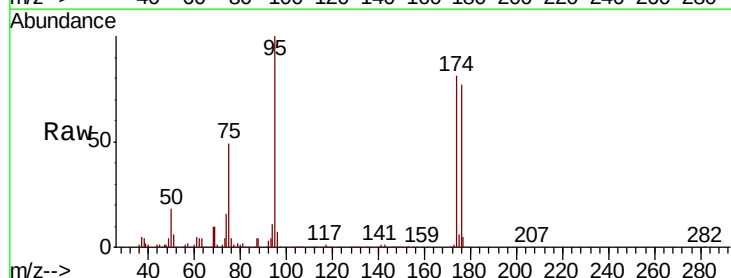
Instrument :
MSVOA_N
ClientSampled :
KR-03_10-20

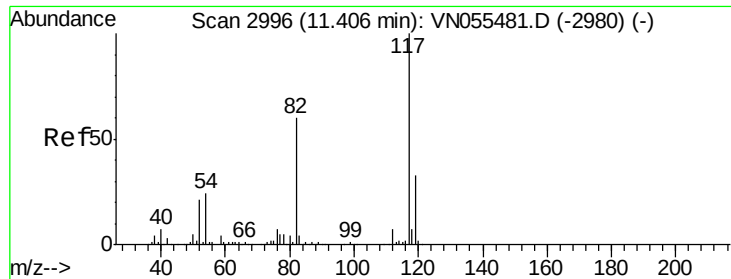
Tot Ion: 43 Resp: 2414
Ion Ratio Lower Upper
43 100
58 50.0 26.4 79.0



#62
4-Bromofluorobenzene
Concen: 42.663 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055579.D
Acq: 13 May 2019 17:01

Tgt Ion: 95 Resp: 578500
Ion Ratio Lower Upper
95 100
174 79.7 0.0 152.2
176 77.4 0.0 147.8

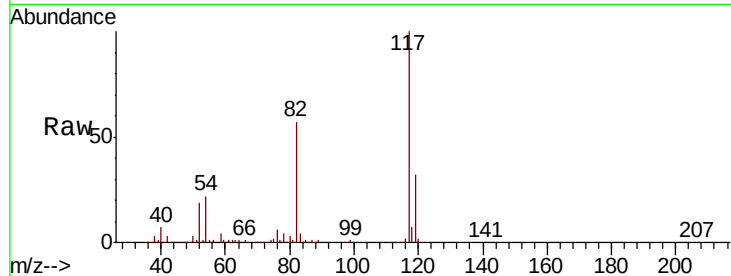




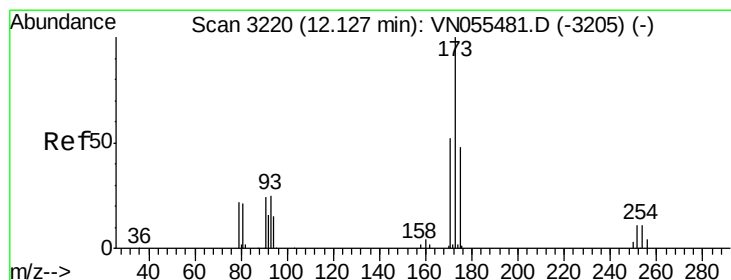
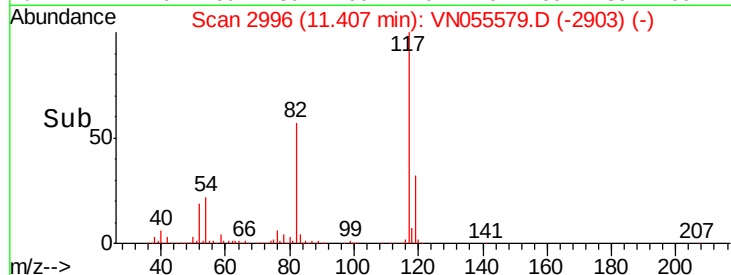
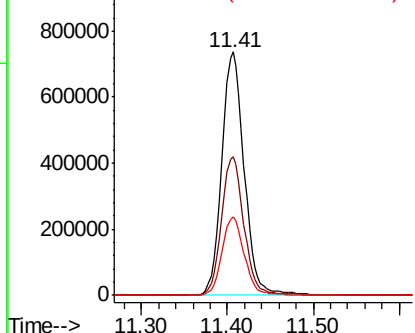
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055579.D
Acq: 13 May 2019 17:01

Instrument :
MSVOA_N
ClientSampleId :
KR-03_10-20

Tot Ion:117 Resp: 1335146
Ion Ratio Lower Upper
117 100
82 57.1 48.0 72.0
119 32.1 26.0 39.0

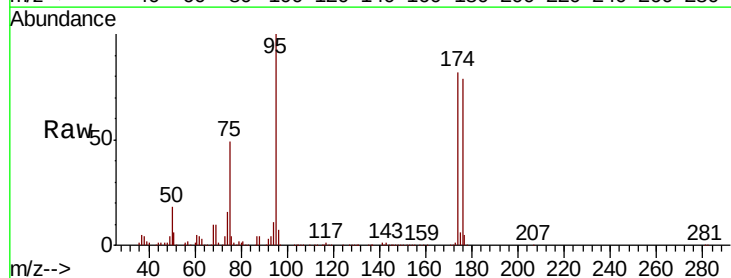


Abundance Ion 116.90 (116.60 to 117.60): V
1000000 Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

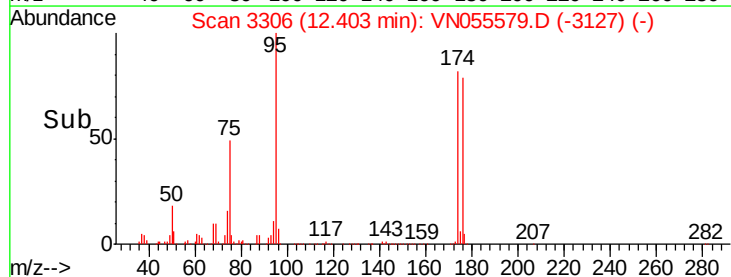
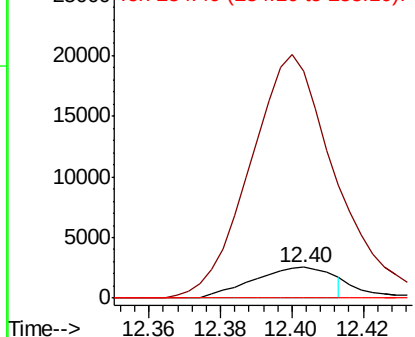


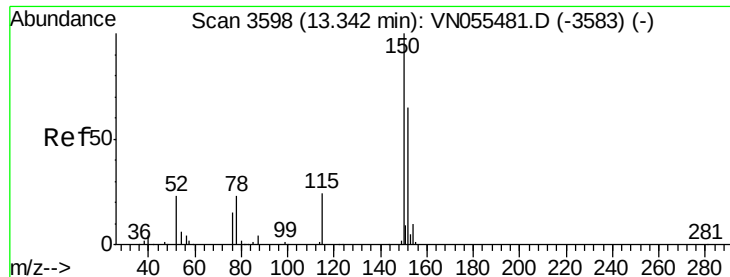
#71
Bromoform
Concen: 0.613 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055579.D
Acq: 13 May 2019 17:01

Tgt Ion:173 Resp: 3912
Ion Ratio Lower Upper
173 100
175 738.2 24.1 72.4#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
25000 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: VN055579.D

Acq: 13 May 2019 17:01

Instrument :

MSVOA_N

ClientSampled :

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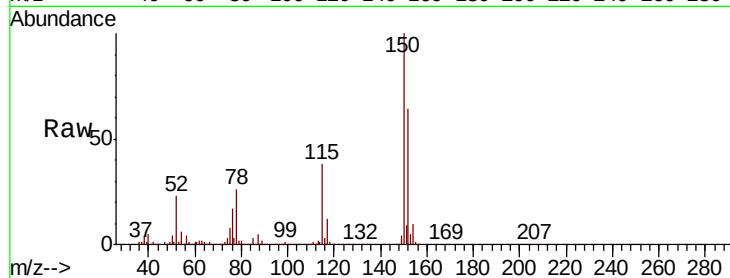
Tot Ion:152 Resp: 422540

Ion Ratio Lower Upper

152 100

115 58.8 30.1 90.5

150 157.2 0.0 355.0

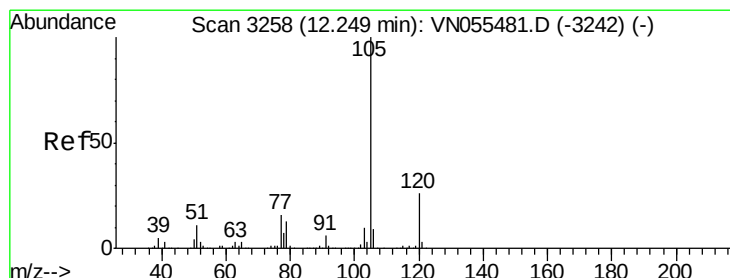
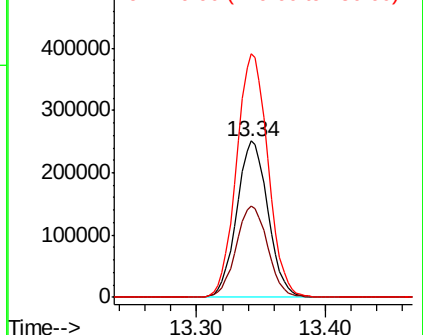
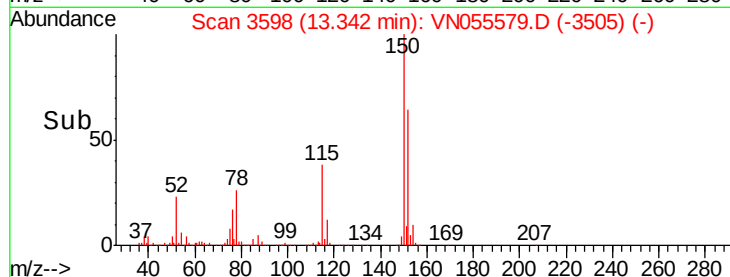


Abundance

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: VN055579.D

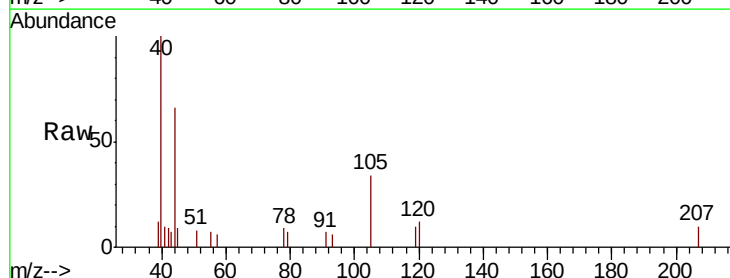
Acq: 13 May 2019 17:01

Tgt Ion:105 Resp: 1464

Ion Ratio Lower Upper

105 100

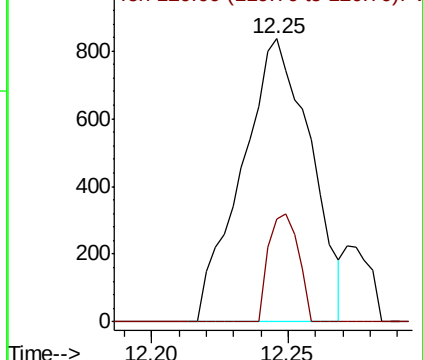
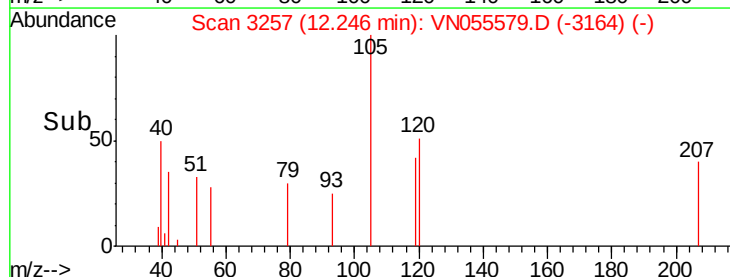
120 16.6 13.0 39.0

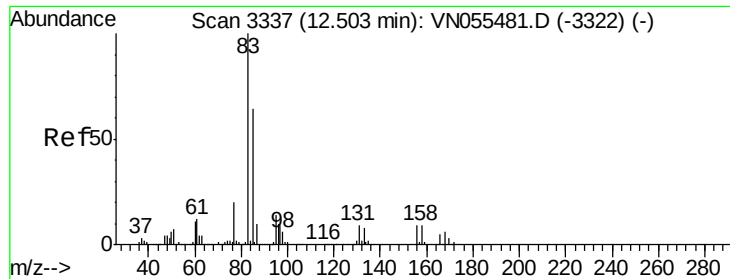


Abundance

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: 12.52 min Scan# 3341

Delta R.T. 0.01 min

Lab File: VN055579.D

Acq: 13 May 2019 17:01

Instrument :

MSVOA_N

ClientSampled :

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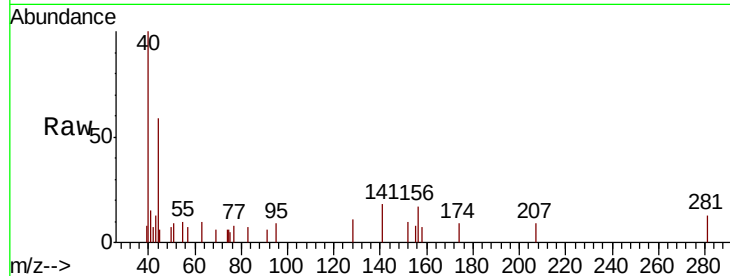
Tot Ion: 83 Resp: 105

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

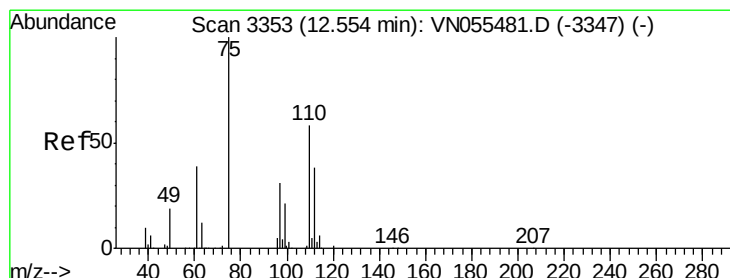
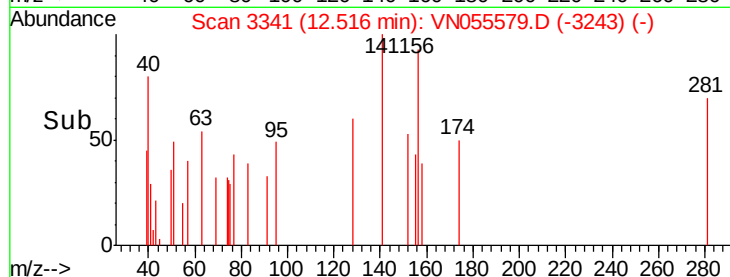
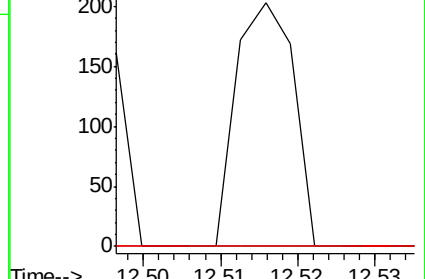
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 24.590 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055579.D

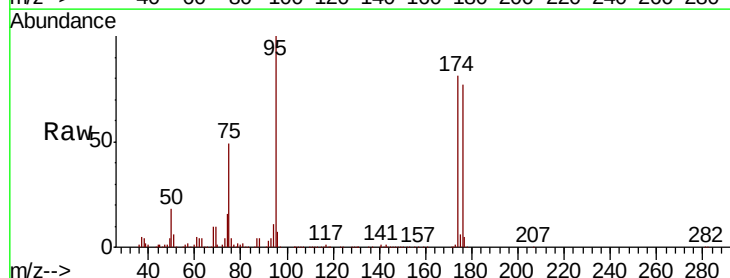
Acq: 13 May 2019 17:01

Tgt Ion: 75 Resp: 282860

Ion Ratio Lower Upper

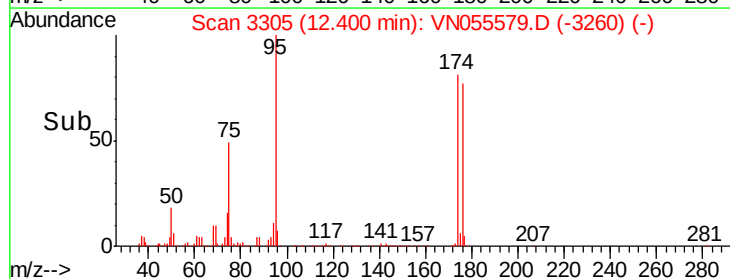
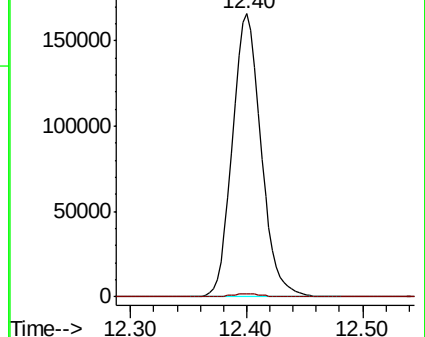
75 100

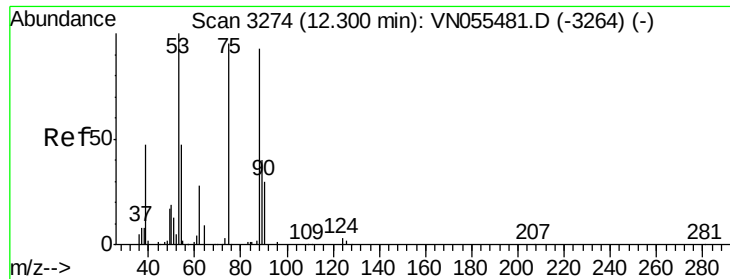
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 90.734 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055579.D

Acq: 13 May 2019 17:01

Instrument :

MSVOA_N

ClientSampleId :

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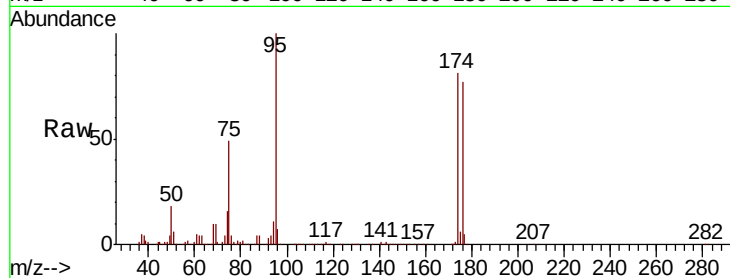
Tot Ion: 75 Resp: 282860

Ion Ratio Lower Upper

75 100

53 0.0 86.5 129.7#

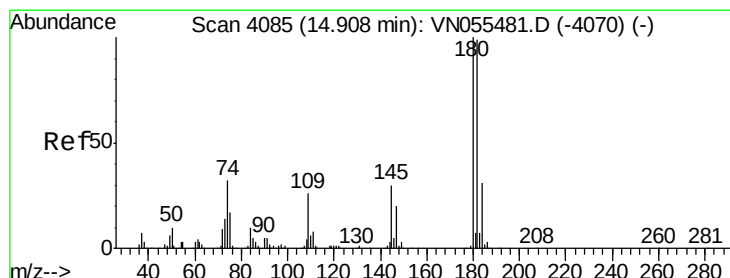
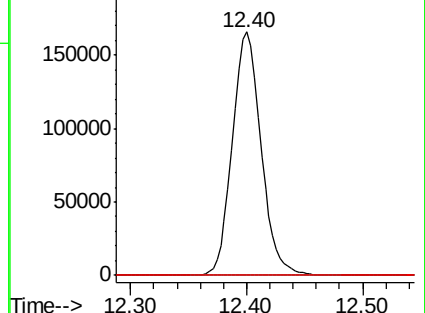
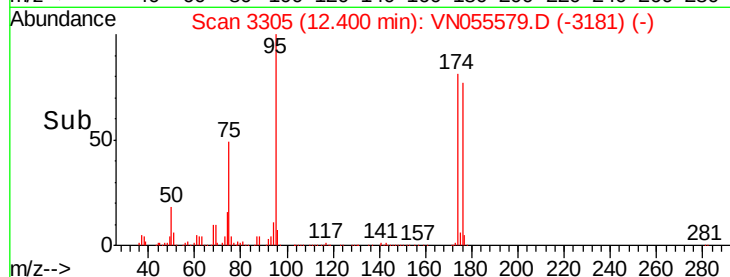
89 0.0 35.7 53.5#



Abundance Ion 74.90 (74.60 to 75.60): VN055579.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055579.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055579.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.295 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055579.D

Acq: 13 May 2019 17:01

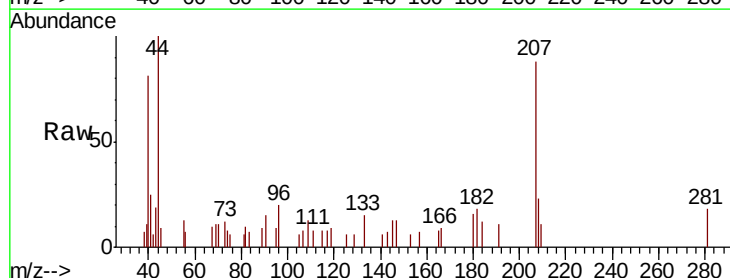
Tgt Ion: 180 Resp: 602

Ion Ratio Lower Upper

180 100

182 130.4 48.7 146.1

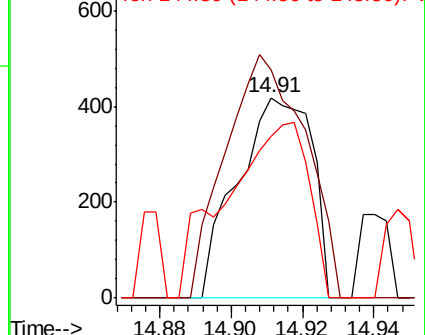
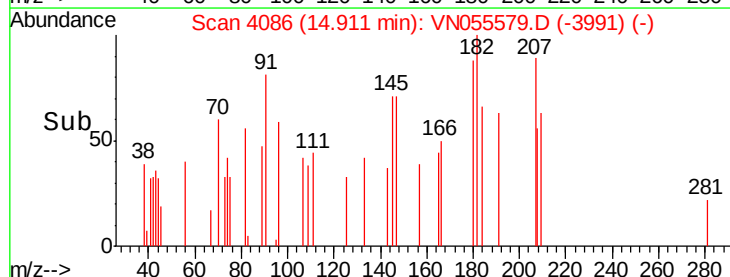
145 97.3 15.3 45.9#

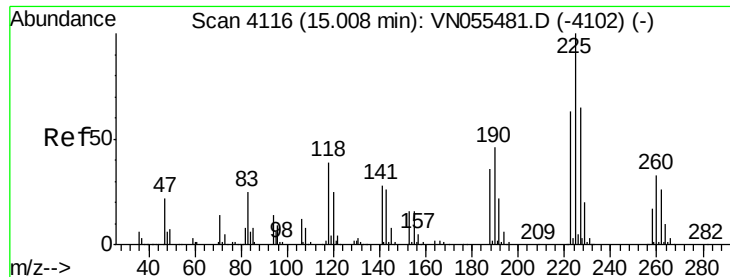


Abundance Ion 179.80 (179.50 to 180.50): VN055579.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN055579.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN055579.D (-3991) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN055579.D

Acq: 13 May 2019 17:01

Instrument :

MSVOA_N

ClientSampled :

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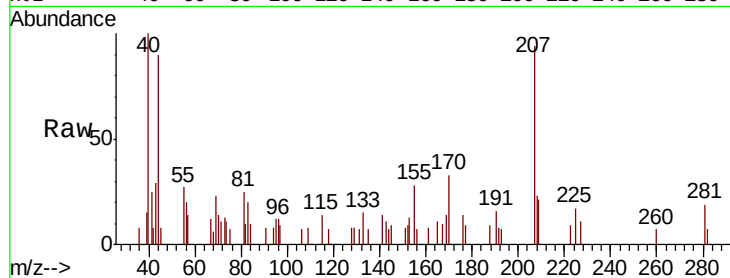
Tot Ion:225 Resp: 488

Ion Ratio Lower Upper

225 100

223 50.2 31.4 94.3

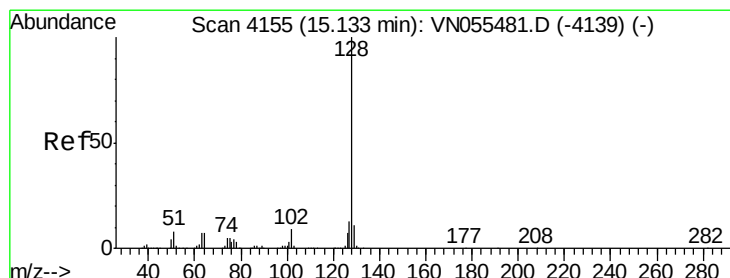
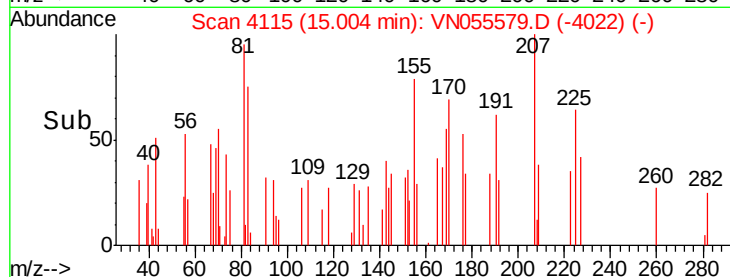
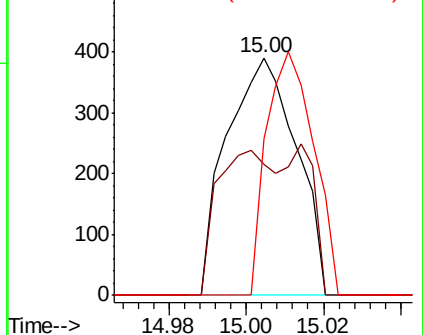
227 69.7 32.0 96.0



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: 3.300 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055579.D

Acq: 13 May 2019 17:01

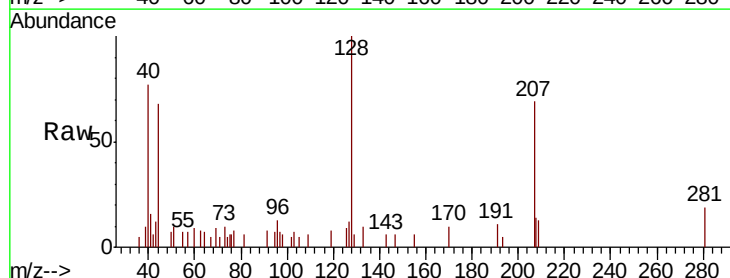
Tgt Ion:128 Resp: 6791

Ion Ratio Lower Upper

128 100

127 11.7 10.0 15.0

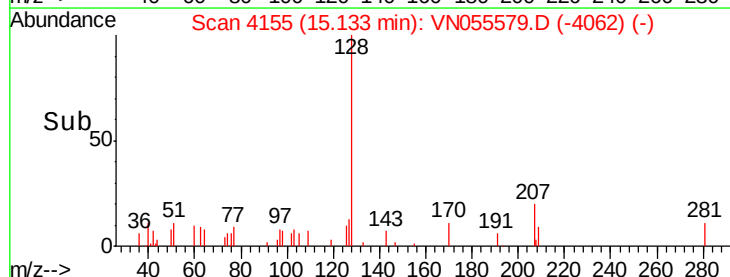
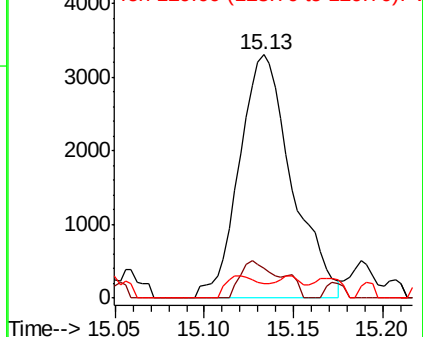
129 5.5 8.8 13.2#

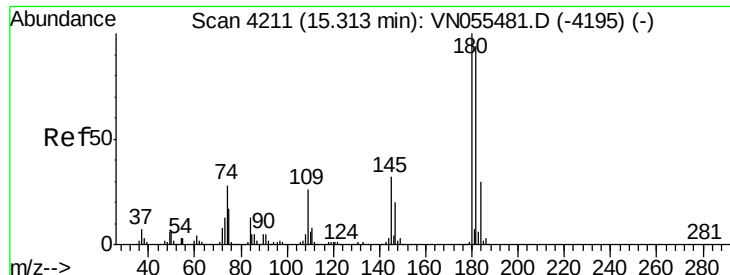


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.576 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN055579.D
 Acq: 13 May 2019 17:01

Instrument :
 MSVOA_N
 ClientSampleId :
 KR-03_10-20

Tot Ion	Ratio	Lower	Upper
180	100		
182	81.8	47.1	141.3
145	29.9	15.8	47.4

