

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031320\
 Data File : VN060494.D
 Acq On : 13 Mar 2020 12:03
 Operator : JC/MD
 Sample : L1762-13
 Misc : 4.33g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:26:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	187155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	307617	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293487	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145127	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	119079	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
35) Dibromofluoromethane	7.56	113	88293	61.84	ug/l	0.00
Spiked Amount			Recovery	=	123.68%	
50) Toluene-d8	10.08	98	380914	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
62) 4-Bromofluorobenzene	12.40	95	149012	54.40	ug/l	0.00
Spiked Amount			Recovery	=	108.80%	

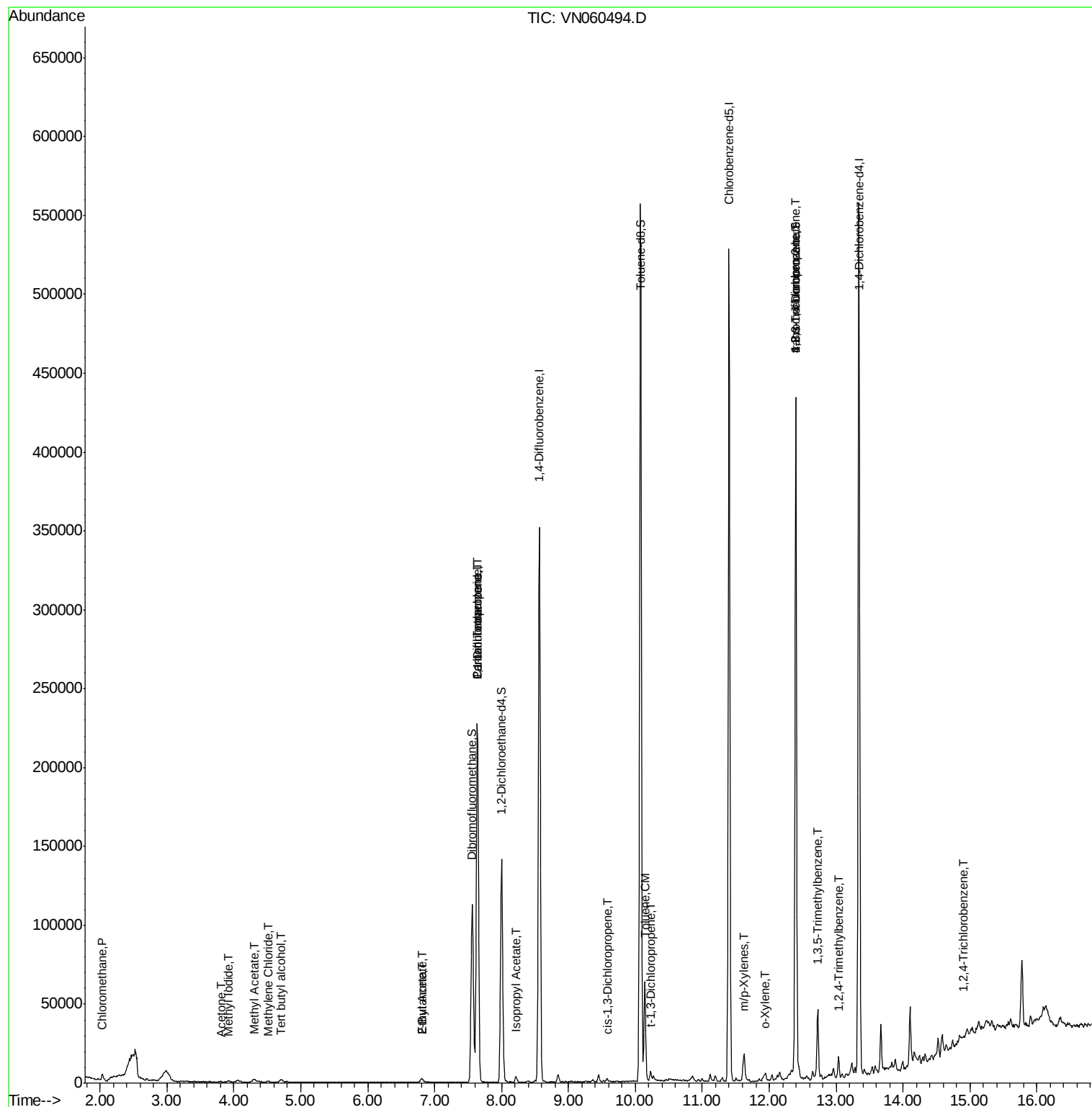
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	3279	1.098	ug/l	96
5) Bromomethane	2.49	94	561	Below Cal		94
10) Methyl Iodide	3.91	142	1315	0.778	ug/l #	71
11) Tert butyl alcohol	4.70	59	598	1.677	ug/l #	73
16) Acetone	3.80	43	376	0.485	ug/l #	44
17) Carbon Disulfide	4.01	76	177	Below Cal	#	75
18) Methyl Acetate	4.30	43	4859	1.878	ug/l #	62
20) Methylene Chloride	4.52	84	433	0.203	ug/l #	28
25) 2-Butanone	6.82	43	2954	2.358	ug/l	97
31) Cyclohexane	7.64	56	4230	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	14396	4.910	ug/l #	49
37) Ethyl Acetate	6.82	43	2954	1.064	ug/l #	68
38) Carbon Tetrachloride	7.64	117	17857	6.256	ug/l #	16
43) Isopropyl Acetate	8.22	43	1528	0.314	ug/l #	55
52) Toluene	10.14	92	24058	4.488	ug/l	99
53) t-1,3-Dichloropropene	10.23	75	3919	1.086	ug/l #	44
54) cis-1,3-Dichloropropene	9.58	75	1903	0.509	ug/l #	31
68) m/p-Xylenes	11.61	106	2954	0.725	ug/l	95
69) o-Xylene	11.94	106	1201	0.309	ug/l	82
76) 1,2,3-Trichloropropane	12.40	75	76636	24.068	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3310	0.365	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76636	66.440	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.04	105	8070	0.883	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	269	Below Cal	#	11
88) 1,4-Dichlorobenzene	13.36	146	415	Below Cal	#	25
93) 1,2,4-Trichlorobenzene	14.91	180	548	0.275	ug/l #	59
96) 1,2,3-Trichlorobenzene	15.31	180	420	Below Cal	#	30

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

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.01 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Instrument :

MSVOA_N

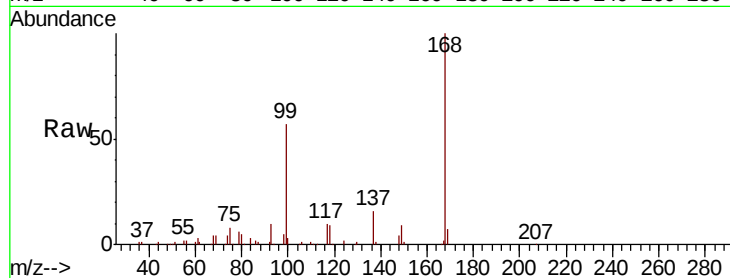
ClientSampled :

Tot Ion:168 Resp: 187155

Ion Ratio Lower Upper

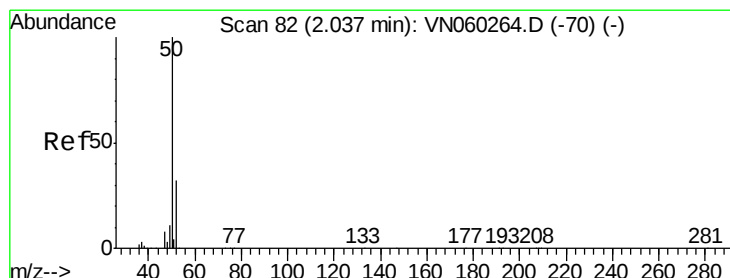
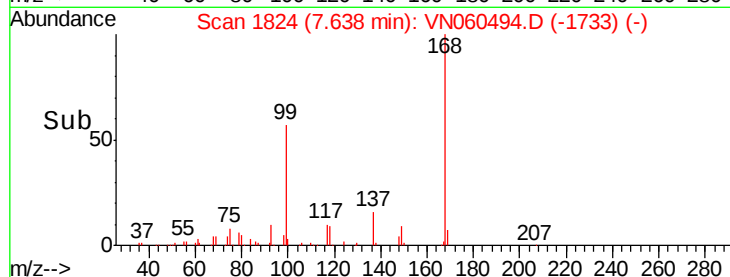
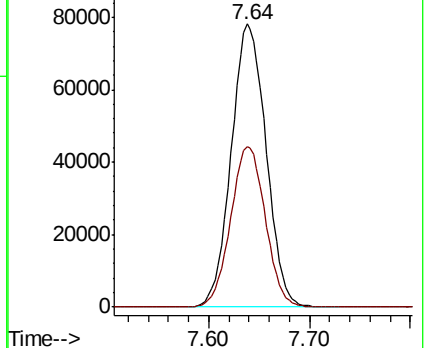
168 100

99 56.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 1.098 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN060494.D

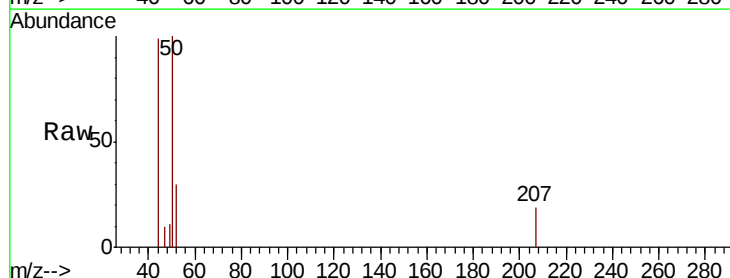
Acq: 13 Mar 2020 12:03

Tgt Ion: 50 Resp: 3279

Ion Ratio Lower Upper

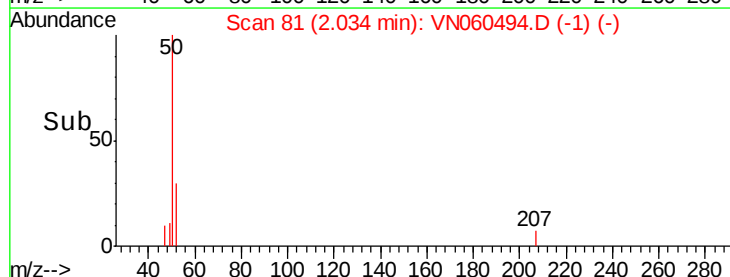
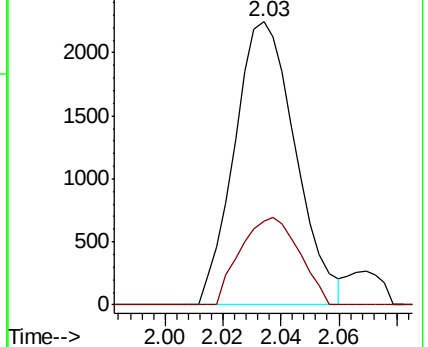
50 100

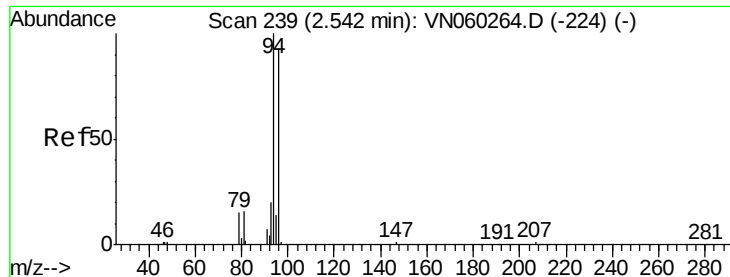
52 29.7 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#5

Bromomethane

Concen: Below Cal

RT: 2.49 min Scan# 222

Delta R.T. -0.05 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Instrument :

MSVOA_N

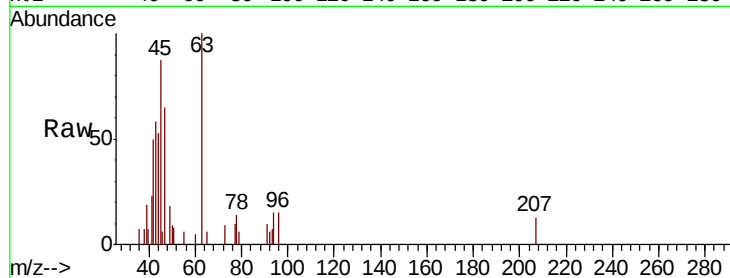
ClientSampleId :

Tot Ion: 94 Resp: 561

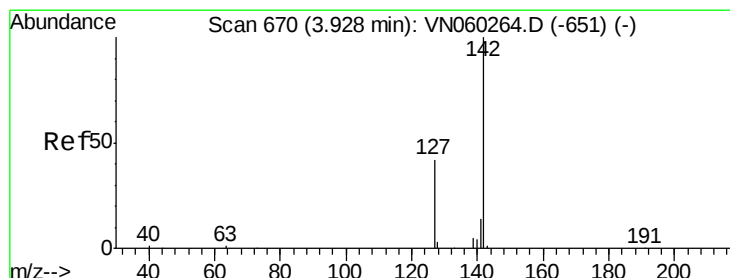
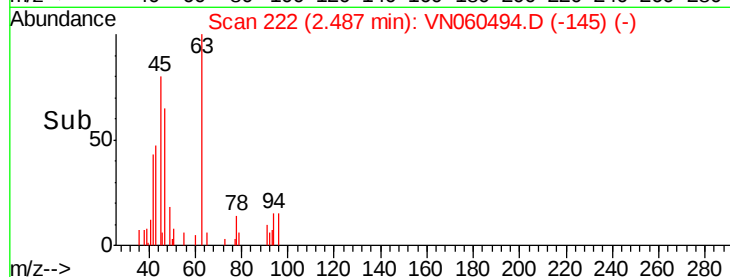
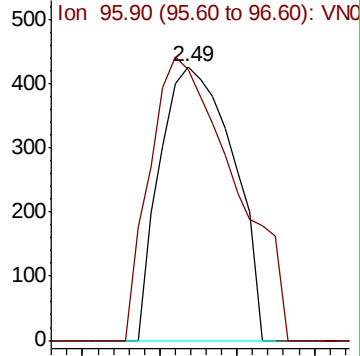
Ion Ratio Lower Upper

94 100

96 98.8 74.3 111.5



Abundance Ion 93.90 (93.60 to 94.60): VN060264.D (-224) (-)



#10

Methyl Iodide

Concen: 0.778 ug/l

RT: 3.91 min Scan# 664

Delta R.T. -0.02 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

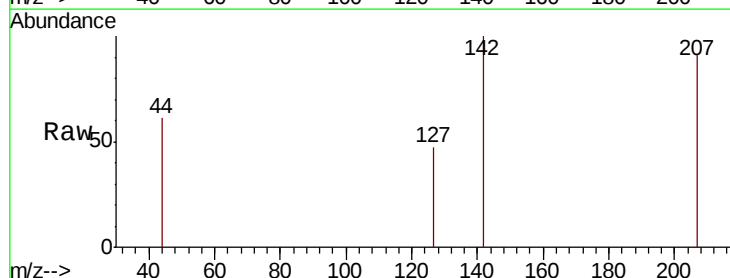
Tgt Ion: 142 Resp: 1315

Ion Ratio Lower Upper

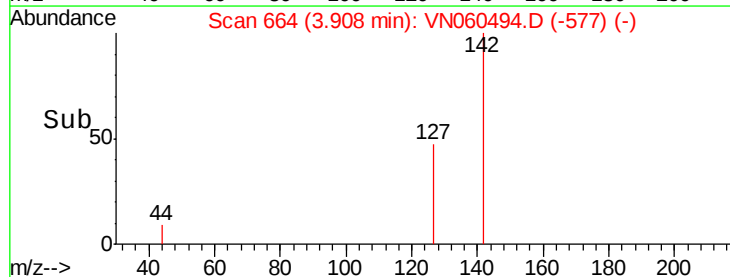
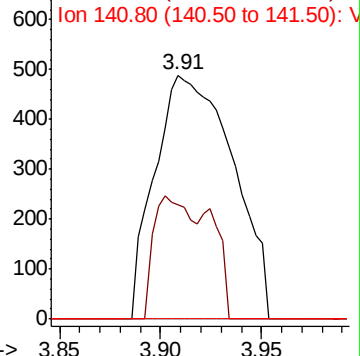
142 100

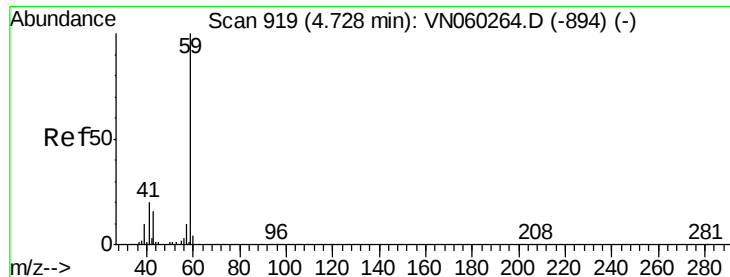
127 25.2 33.8 50.6#

141 0.0 11.1 16.7#



Abundance Ion 141.80 (141.50 to 142.50): VN060264.D (-651) (-)

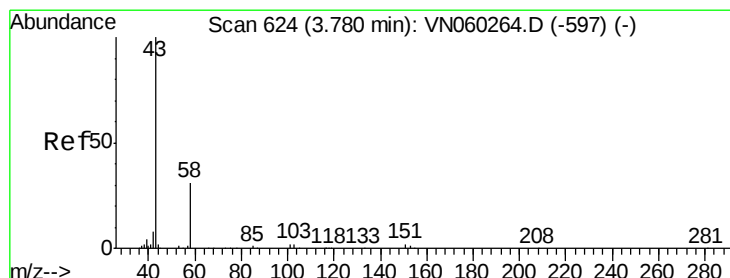
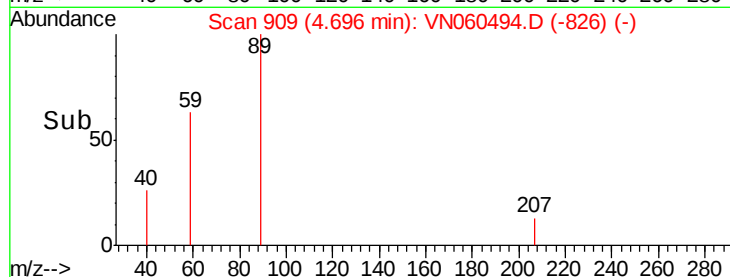
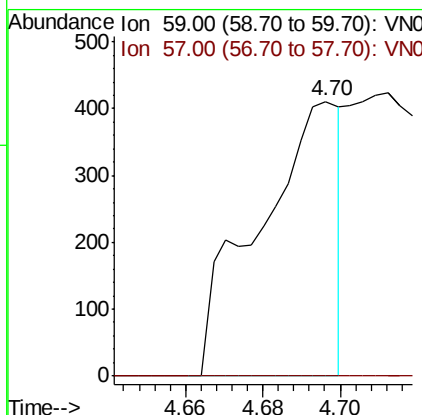
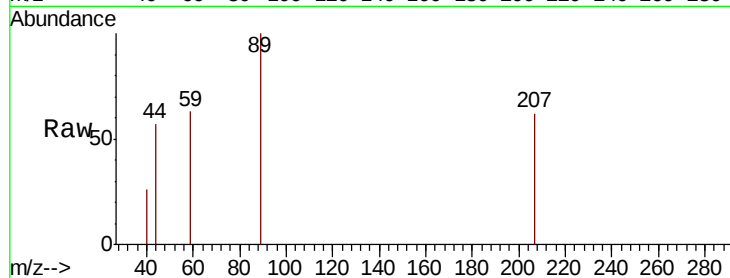




#11
Tert butyl alcohol
Concen: 1.677 ug/l
RT: 4.70 min Scan# 909
Delta R.T. -0.03 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

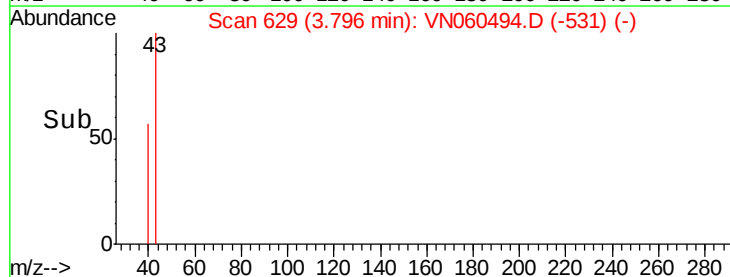
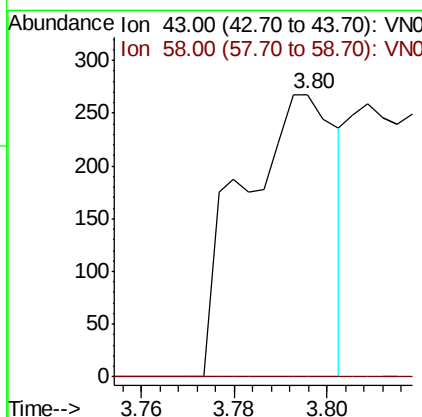
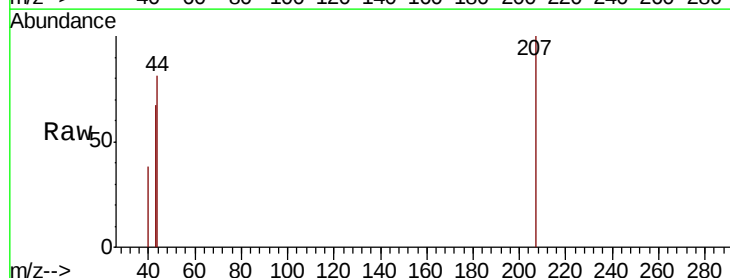
Instrument :
MSVOA_N
ClientSampled :

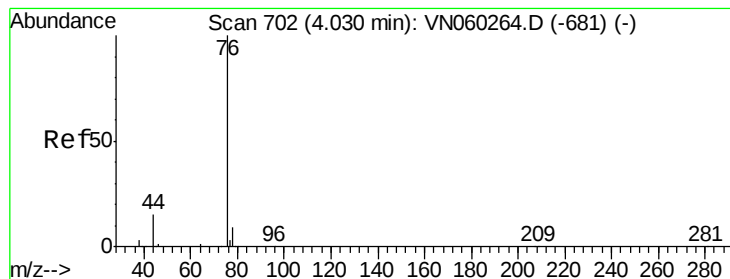
Tot Ion: 59 Resp: 598
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 0.485 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.02 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

Tgt Ion: 43 Resp: 376
Ion Ratio Lower Upper
43 100
58 0.0 24.6 36.8#





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 695

Delta R.T. -0.02 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Instrument :

MSVOA_N

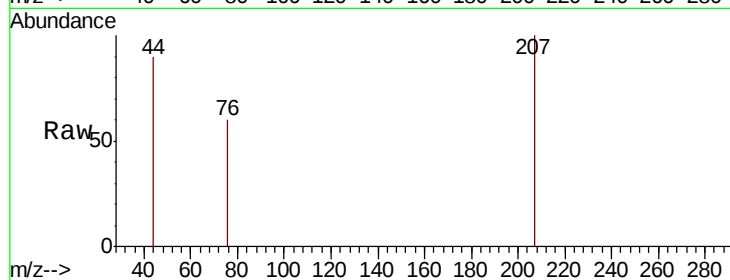
ClientSampleId :

Tot Ion: 76 Resp: 177

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

250

200

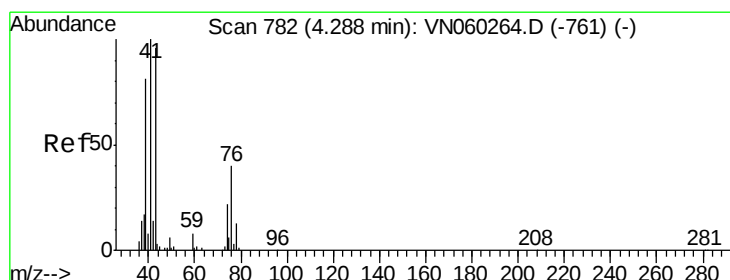
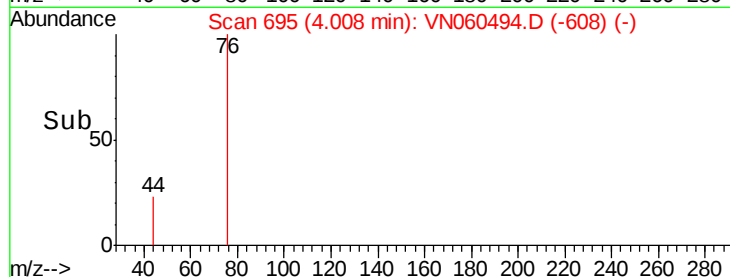
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 1.878 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.02 min

Lab File: VN060494.D

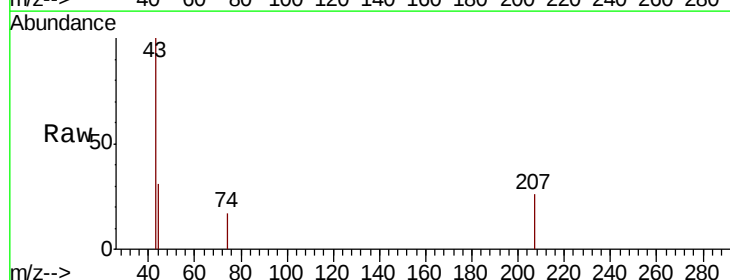
Acq: 13 Mar 2020 12:03

Tgt Ion: 43 Resp: 4859

Ion Ratio Lower Upper

43 100

74 5.0 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

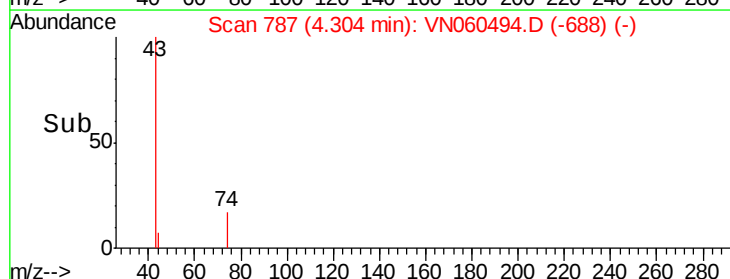
1500

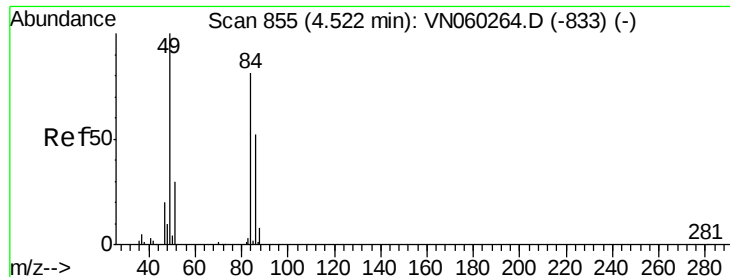
1000

500

0

Time-->





#20

Methvlene Chloride

Concen: 0.203 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 433

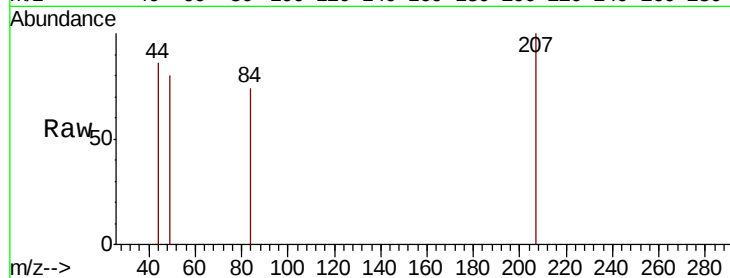
Ion Ratio Lower Upper

84 100

49 45.4 99.3 148.9#

51 0.0 30.1 45.1#

86 0.0 51.1 76.7#

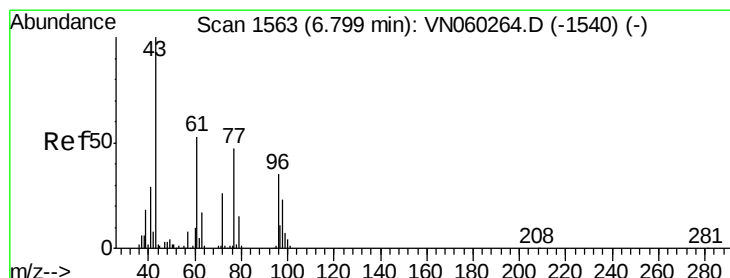
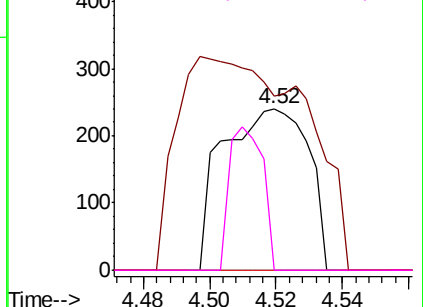
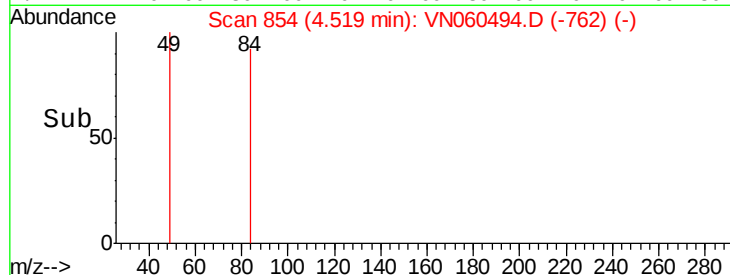


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.358 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VN060494.D

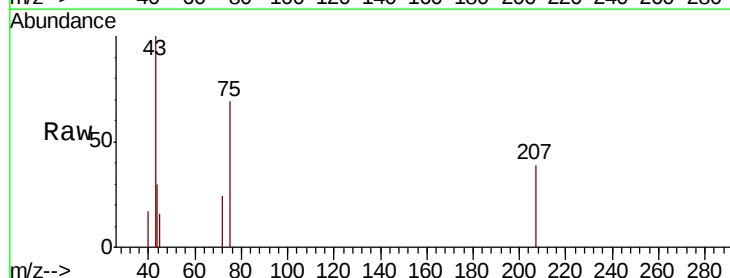
Acq: 13 Mar 2020 12:03

Tgt Ion: 43 Resp: 2954

Ion Ratio Lower Upper

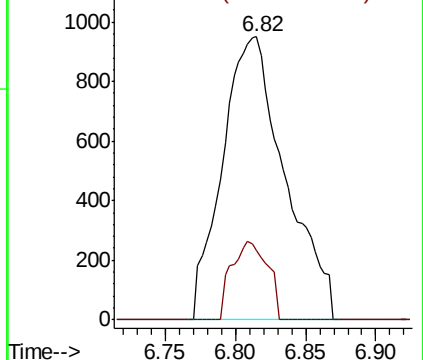
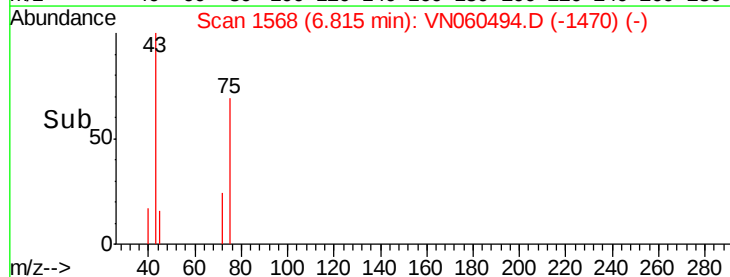
43 100

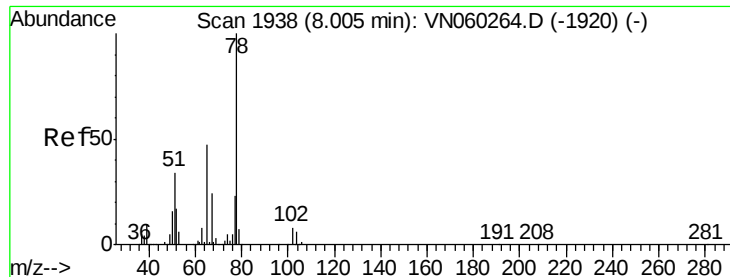
72 24.4 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 49.591 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Instrument :

MSVOA_N

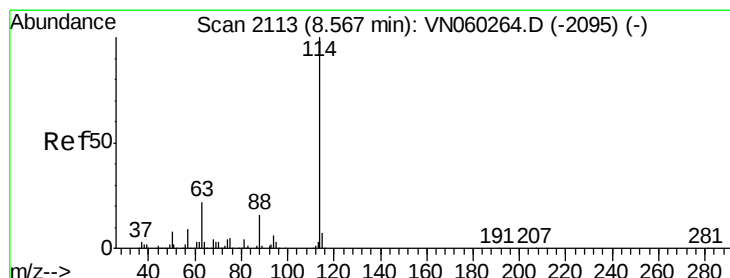
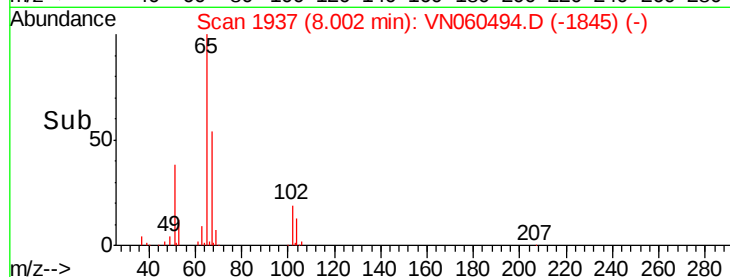
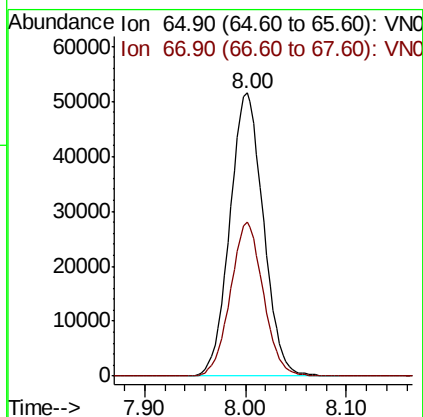
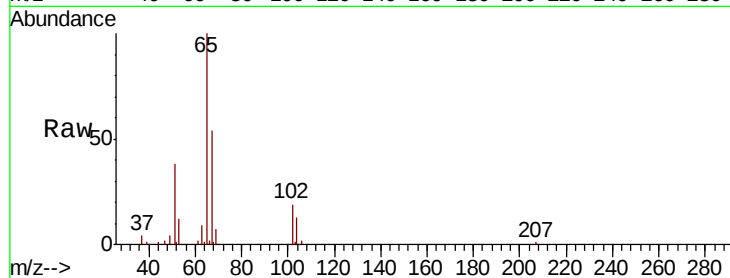
ClientSampleId :

Tot Ion: 65 Resp: 119079

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

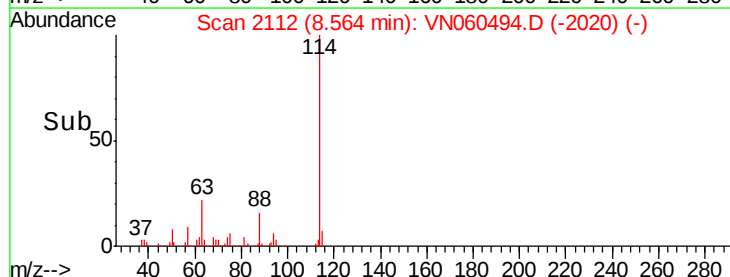
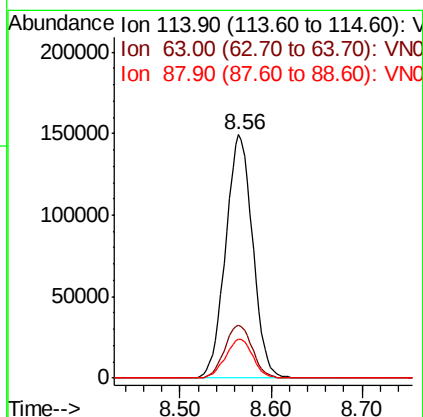
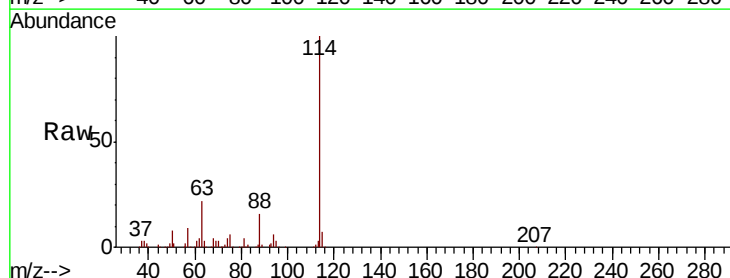
Tgt Ion: 114 Resp: 307617

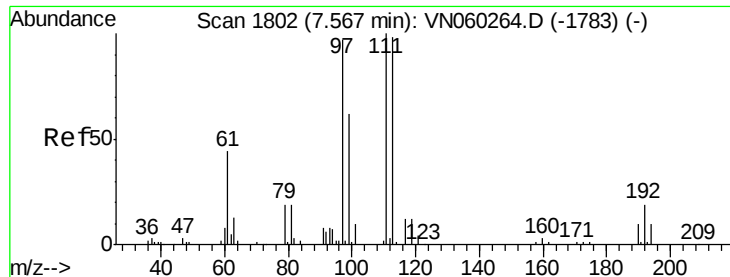
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 16.1 0.0 31.6

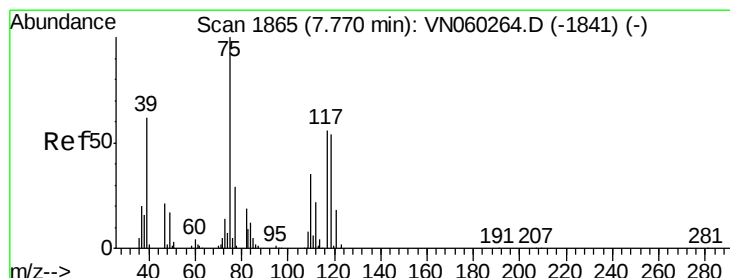
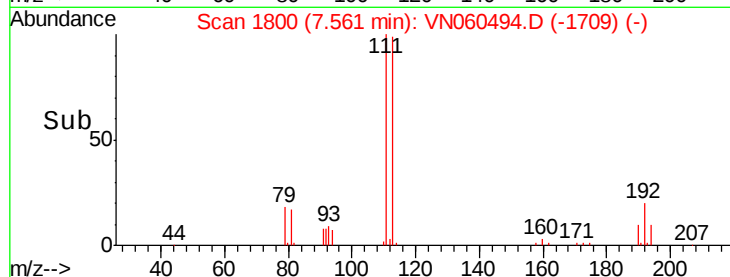
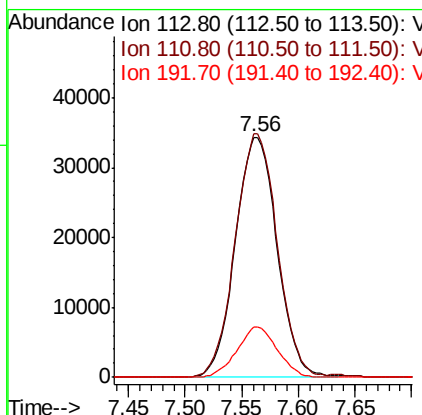
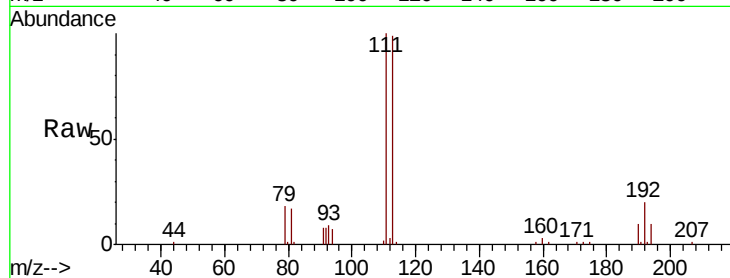




#35
 Dibromofluoromethane
 Concen: 61.836 ug/l
 RT: 7.56 min Scan# 1800
 Delta R.T. -0.01 min
 Lab File: VN060494.D
 Acq: 13 Mar 2020 12:03

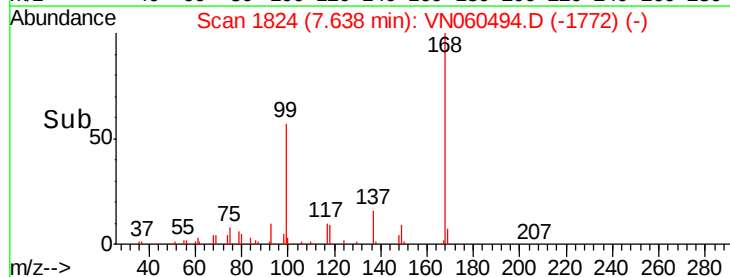
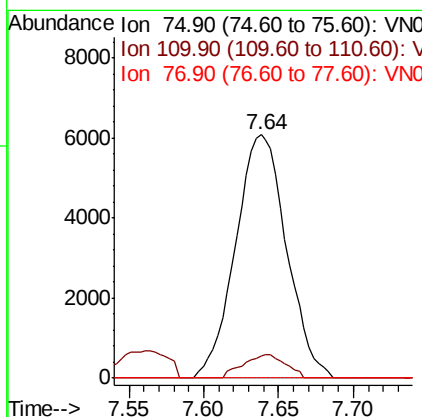
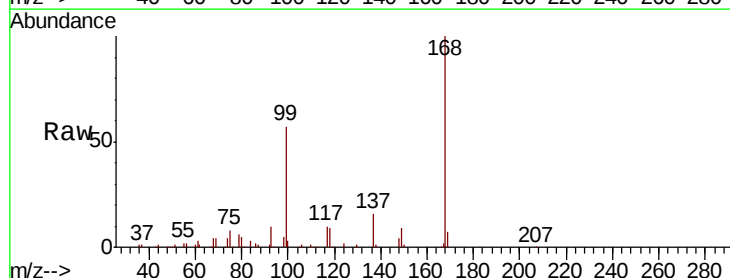
Instrument :
 MSVOA_N
 ClientSampleId :

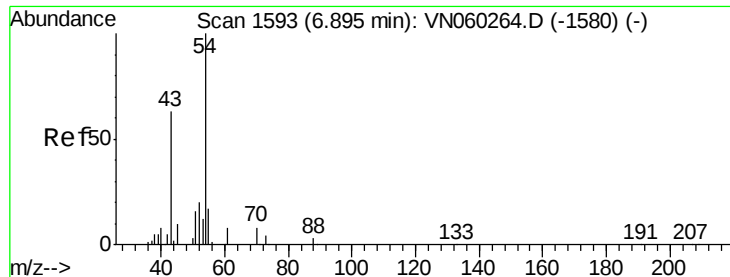
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.4	123.6
192	20.1	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.910 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060494.D
 Acq: 13 Mar 2020 12:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.3	52.0#
77	0.0	24.2	36.2#

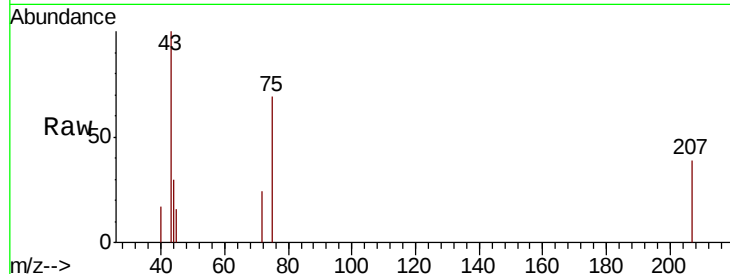




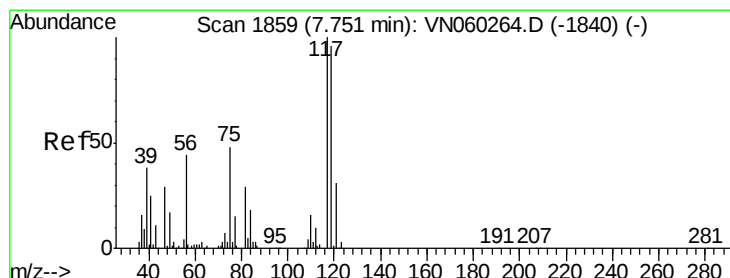
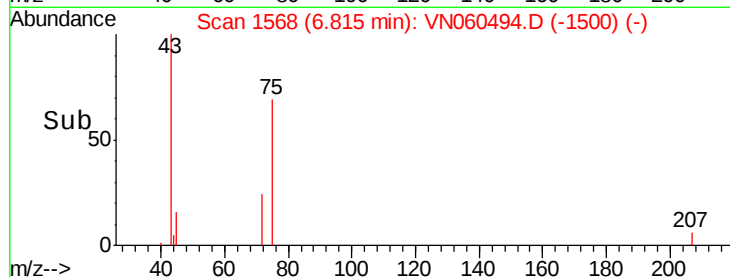
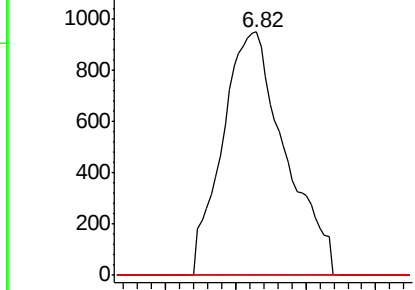
#37
Ethyl Acetate
Concen: 1.064 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. -0.08 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 2954
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#

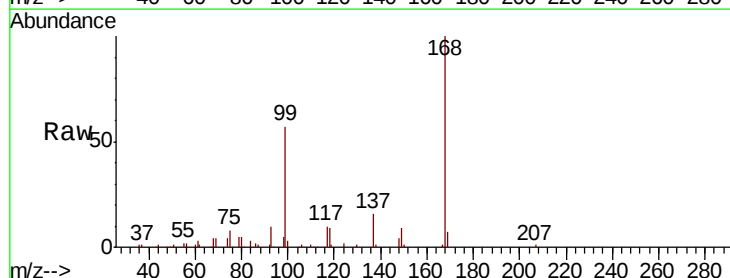


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

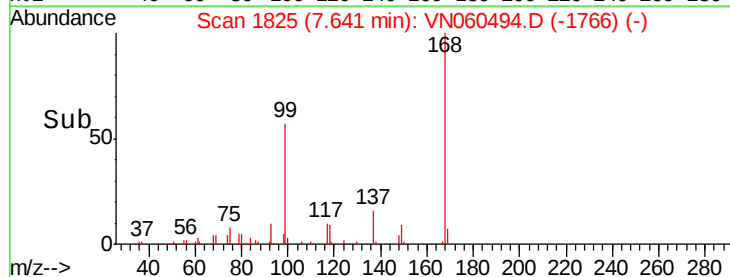
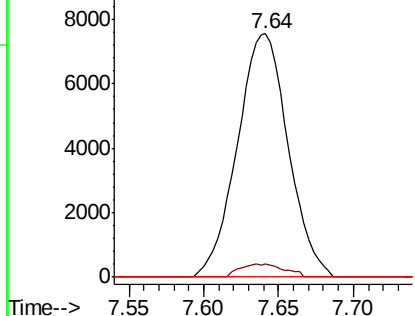


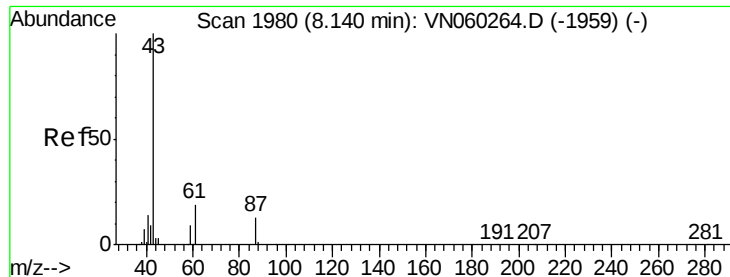
#38
Carbon Tetrachloride
Concen: 6.256 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

Tgt Ion: 117 Resp: 17857
Ion Ratio Lower Upper
117 100
119 5.2 76.7 115.1#
121 0.0 24.5 36.7#



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: 0.314 ug/l

RT: 8.22 min Scan# 2005

Delta R.T. 0.08 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Instrument :

MSVOA_N

ClientSampleId :

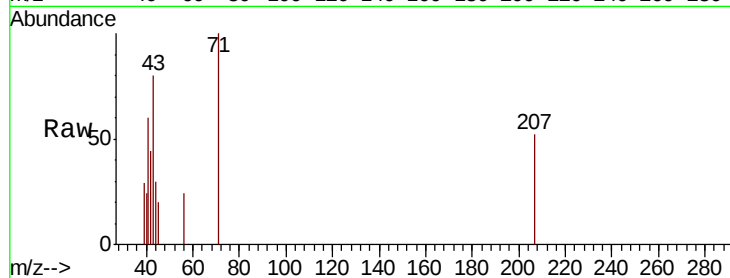
Tot Ion: 43 Resp: 1528

Ion Ratio Lower Upper

43 100

61 0.0 20.9 31.3#

87 0.0 10.6 16.0#



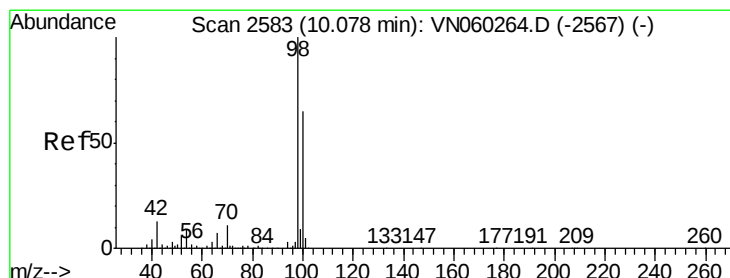
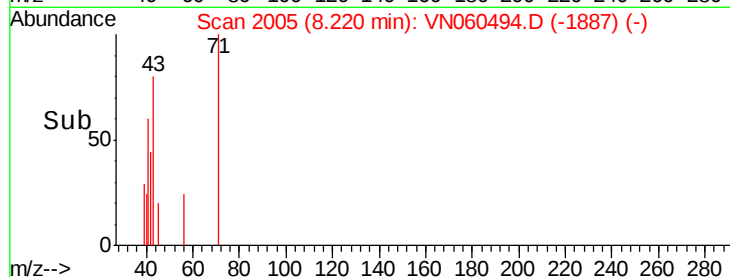
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

8.22

Time--> 8.15 8.20 8.25



#50

Toluene-d8

Concen: 52.710 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060494.D

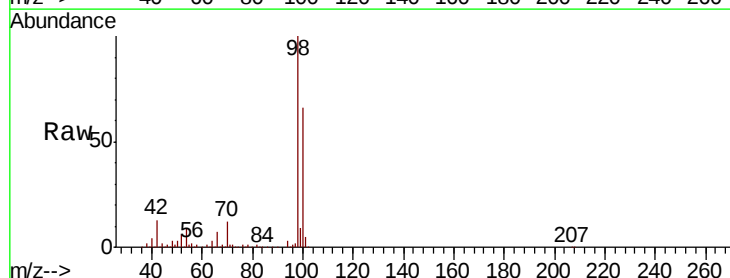
Acq: 13 Mar 2020 12:03

Tgt Ion: 98 Resp: 380914

Ion Ratio Lower Upper

98 100

100 64.8 52.2 78.2

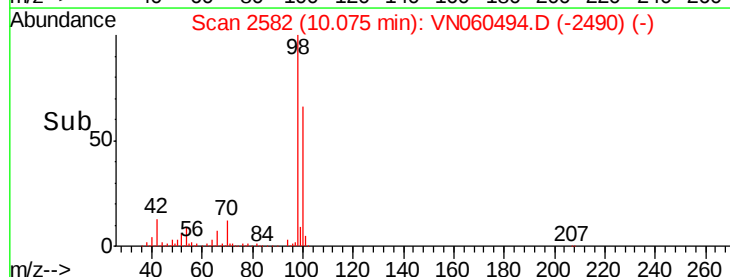


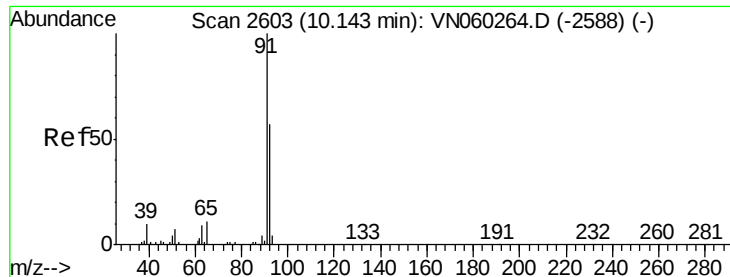
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

10.08

Time--> 10.00 10.10 10.20





#52

Toluene

Concen: 4.488 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Instrument :

MSVOA_N

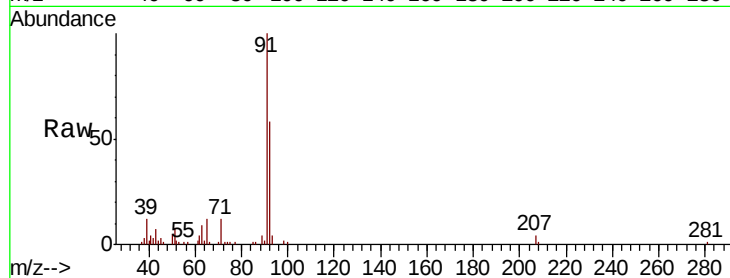
ClientSampled :

Tot Ion: 92 Resp: 24058

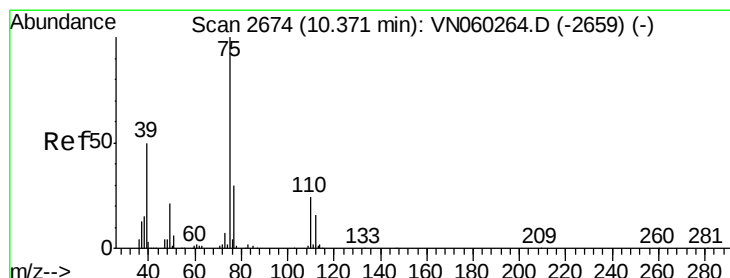
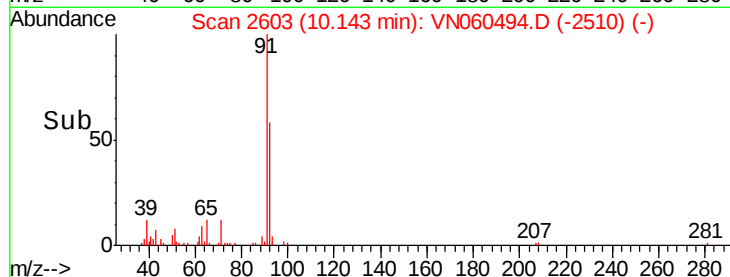
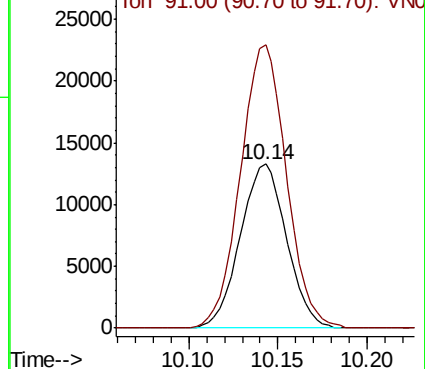
Ion Ratio Lower Upper

92 100

91 171.8 138.1 207.1



Abundance Ion 92.00 (91.70 to 92.70): VN060264.D (-2588) (-)



#53

t-1,3-Dichloropropene

Concen: 1.086 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.14 min

Lab File: VN060494.D

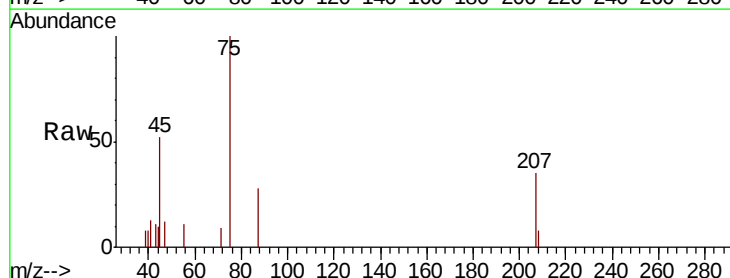
Acq: 13 Mar 2020 12:03

Tgt Ion: 75 Resp: 3919

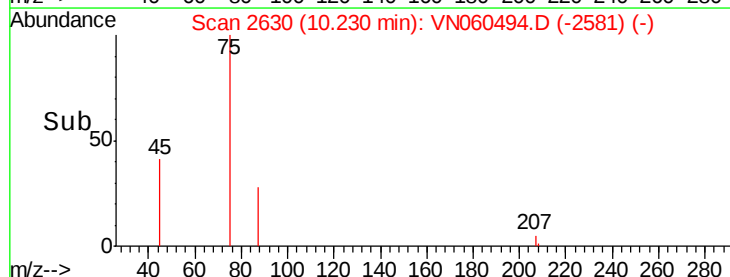
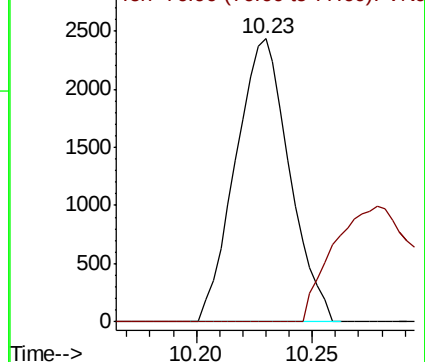
Ion Ratio Lower Upper

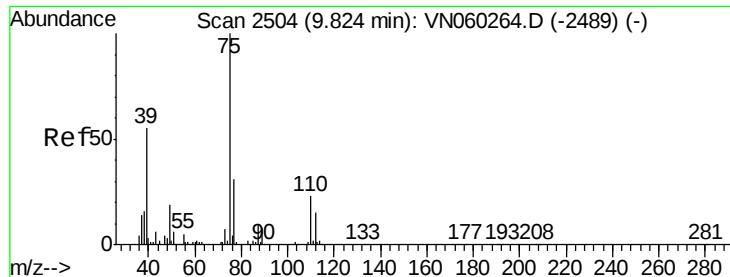
75 100

77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-2659) (-)



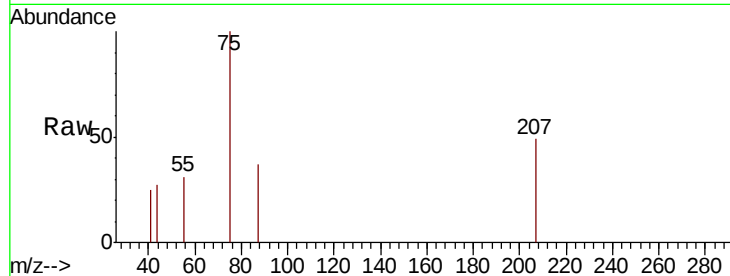


#54

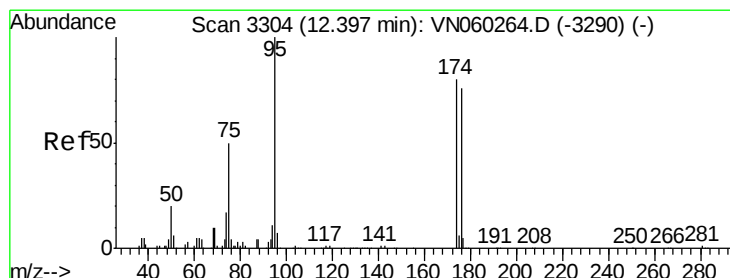
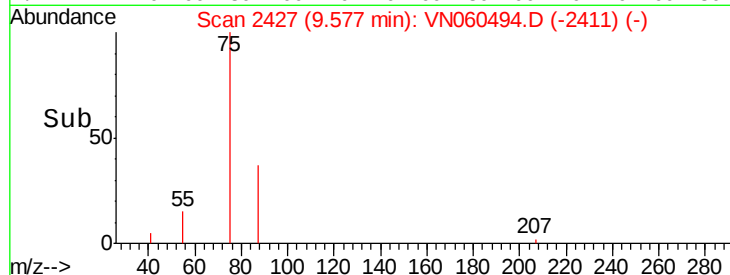
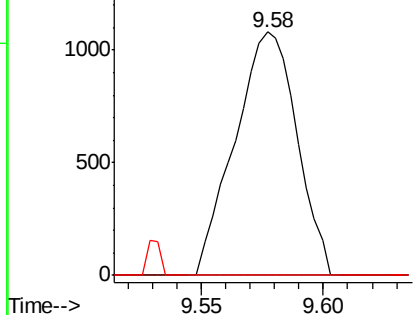
cis-1,3-Dichloropropene
Concen: 0.509 ug/l
RT: 9.58 min Scan# 2427
Delta R.T. -0.25 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	0.0	43.8	65.8#



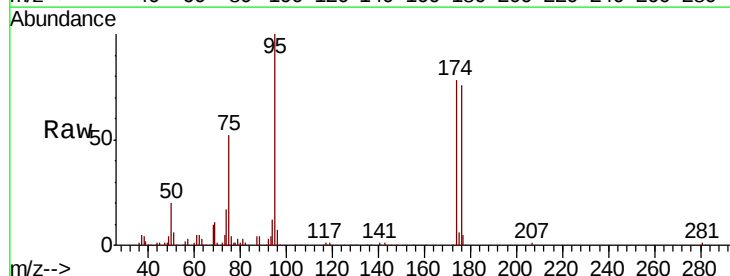
Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



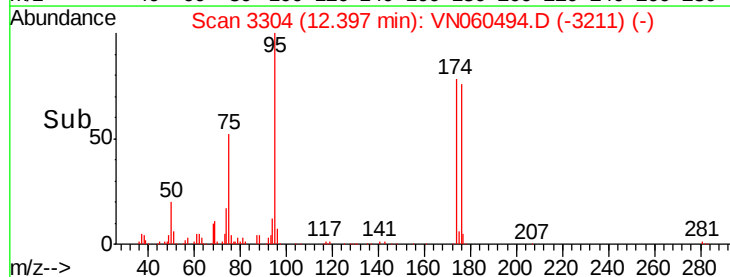
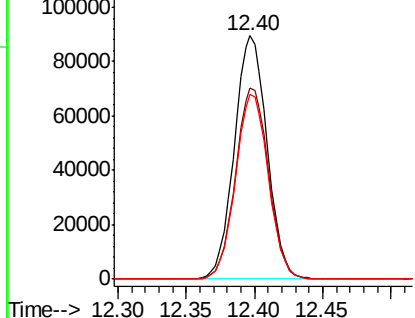
#62

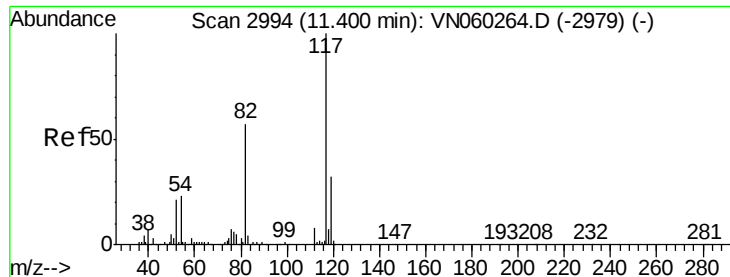
4-Bromofluorobenzene
Concen: 54.396 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	79.0	0.0	159.2
176	76.3	0.0	153.8



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

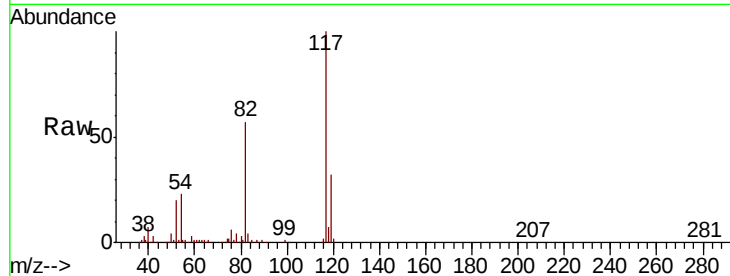




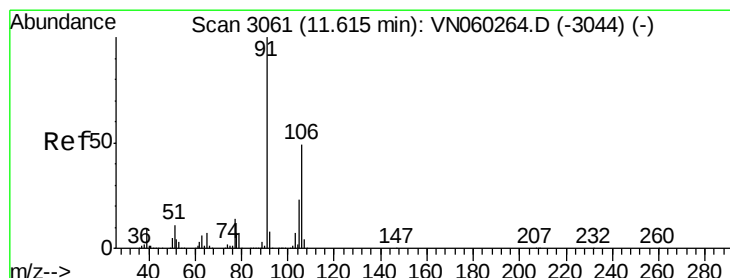
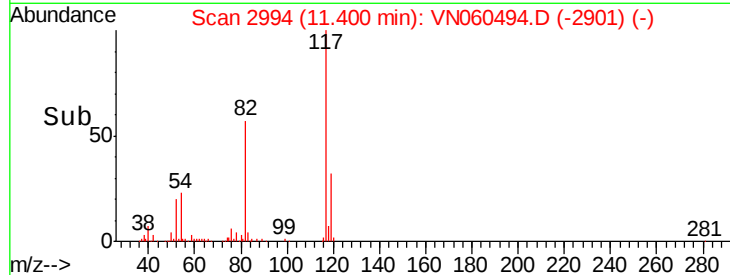
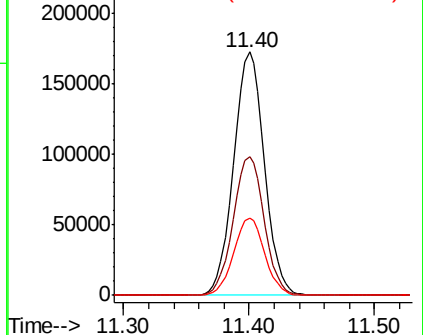
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.8	68.6
119	31.9	25.8	38.8

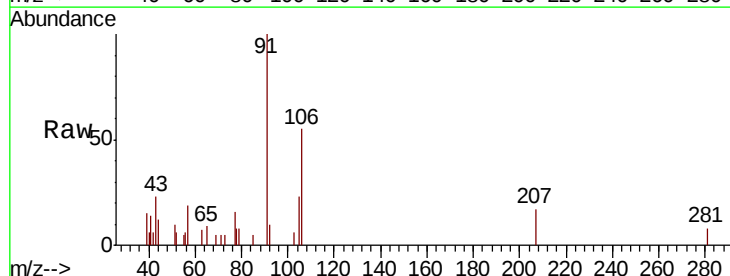


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

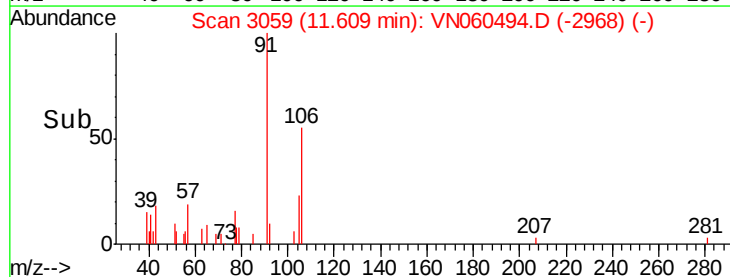
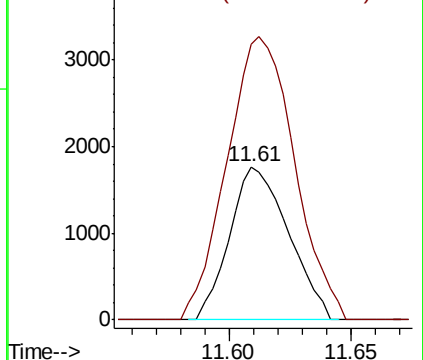


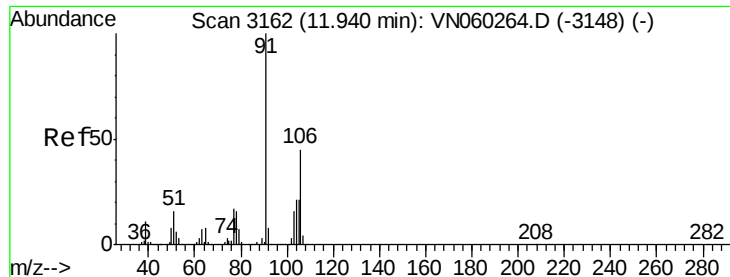
#68
m/p-Xylenes
Concen: 0.725 ug/l
RT: 11.61 min Scan# 3059
Delta R.T. -0.01 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

Tgt Ion	Ratio	Lower	Upper
106	100		
91	212.6	164.5	246.7



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

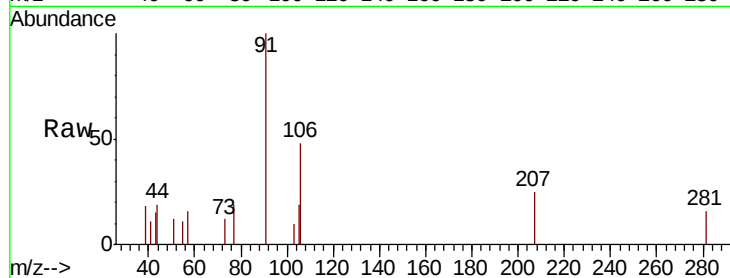




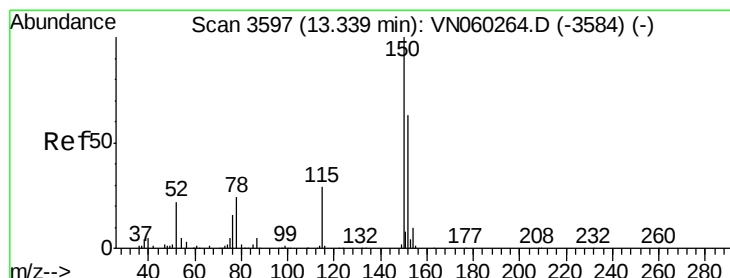
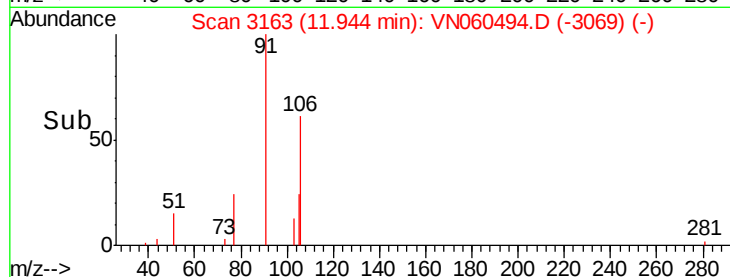
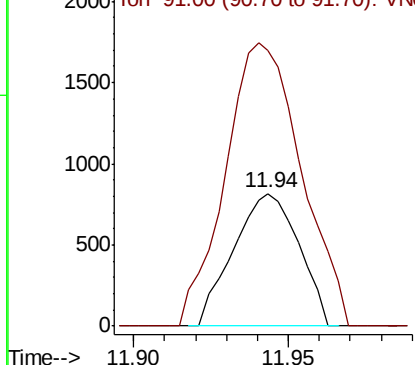
#69
o-Xylene
Concen: 0.309 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 1201
Ion Ratio Lower Upper
106 100
91 247.8 109.5 328.4

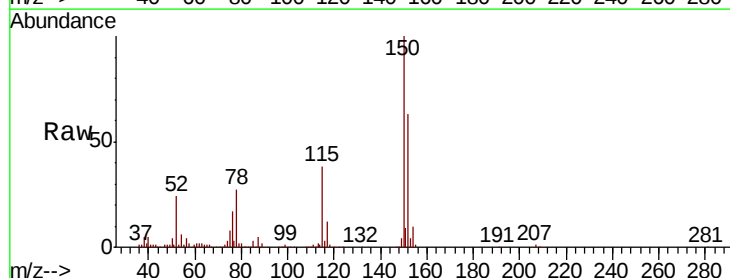


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

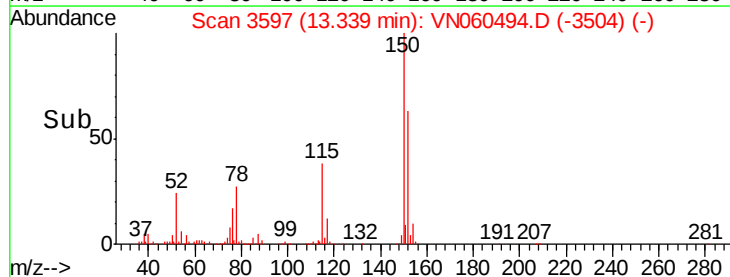
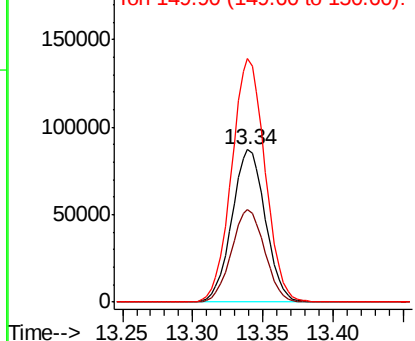


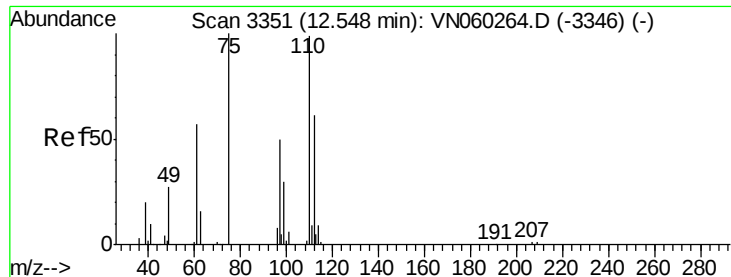
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060494.D
Acq: 13 Mar 2020 12:03

Tgt Ion:152 Resp: 145127
Ion Ratio Lower Upper
152 100
115 60.2 30.0 90.0
150 159.3 0.0 349.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.068 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Instrument :

MSVOA_N

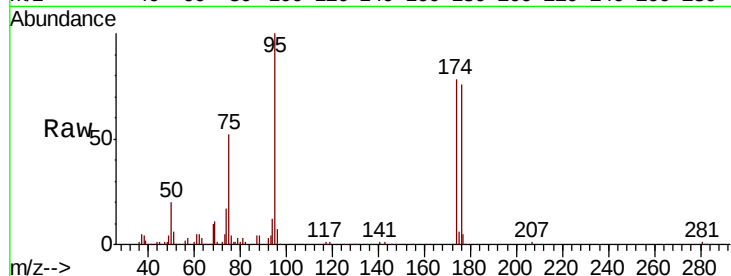
ClientSampled :

Tot Ion: 75 Resp: 76636

Ion Ratio Lower Upper

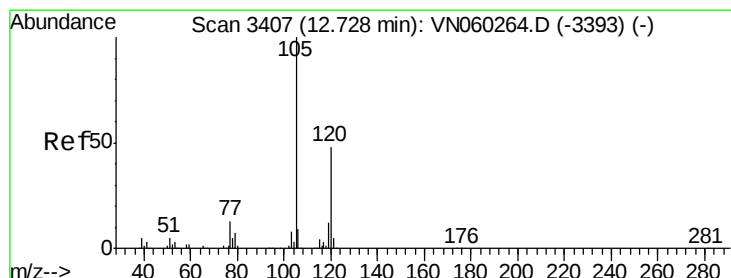
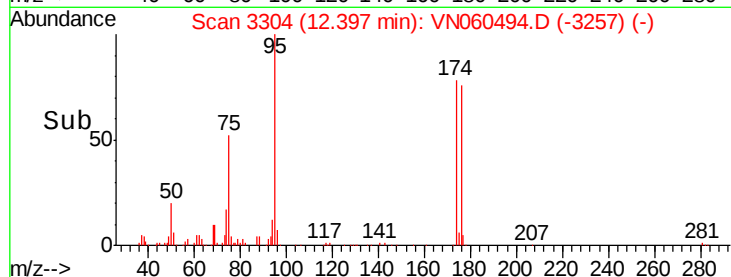
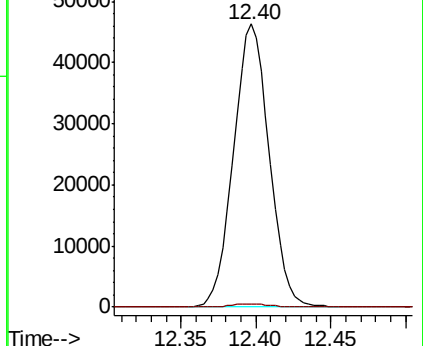
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060264.D (-3346) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.365 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060494.D

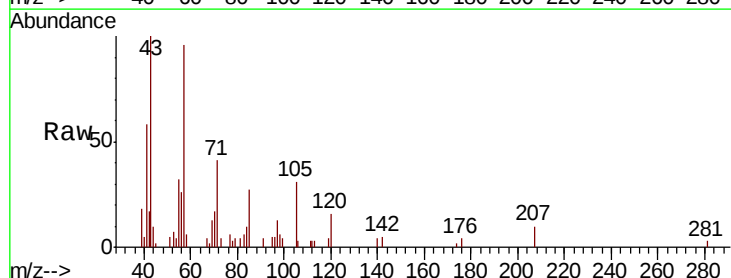
Acq: 13 Mar 2020 12:03

Tgt Ion: 105 Resp: 3310

Ion Ratio Lower Upper

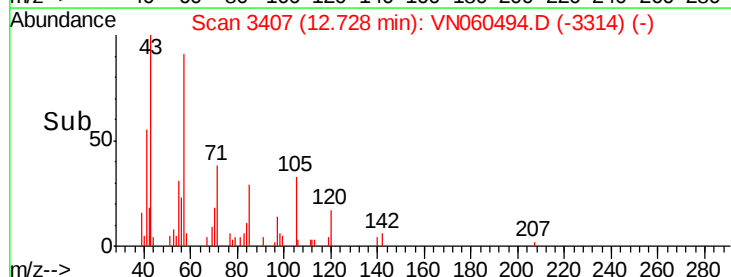
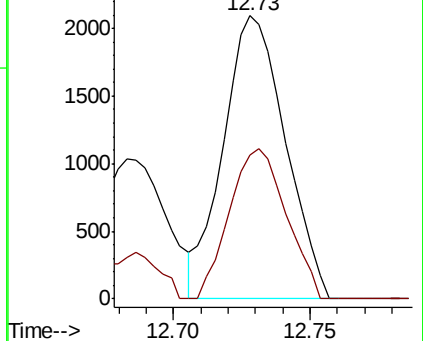
105 100

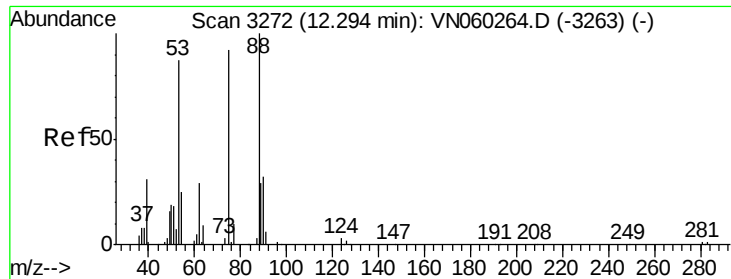
120 48.6 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060264.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN060264.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 66.440 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Instrument :

MSVOA_N

ClientSampleId :

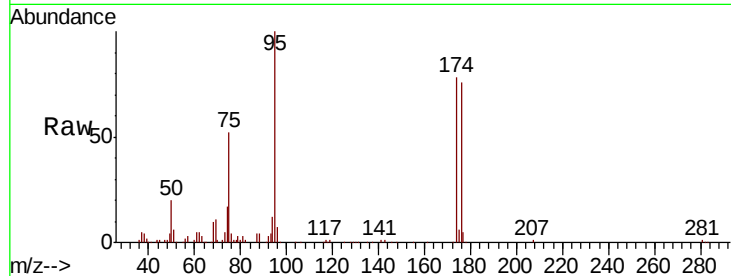
Tot Ion: 75 Resp: 76636

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

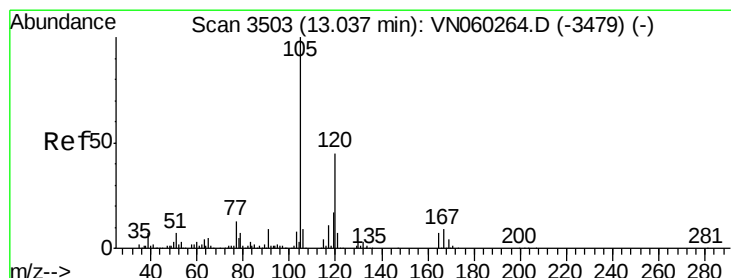
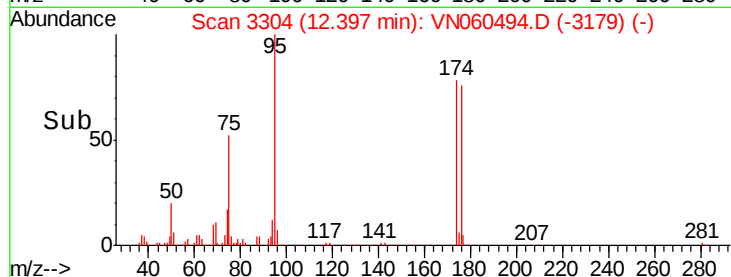
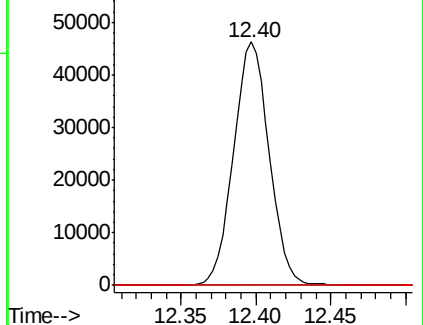
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060494.D (-3304) (-)

Ion 53.00 (52.70 to 53.70): VN060494.D (-3304) (-)

Ion 88.90 (88.60 to 89.60): VN060494.D (-3304) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.883 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN060494.D

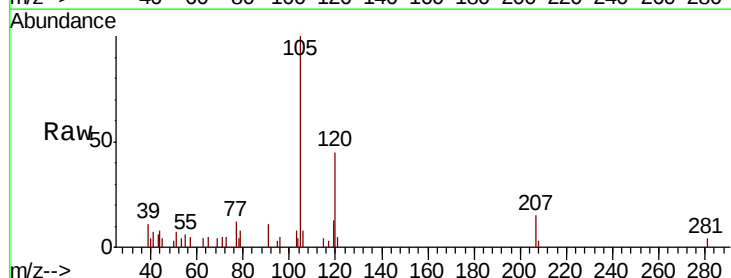
Acq: 13 Mar 2020 12:03

Tgt Ion: 105 Resp: 8070

Ion Ratio Lower Upper

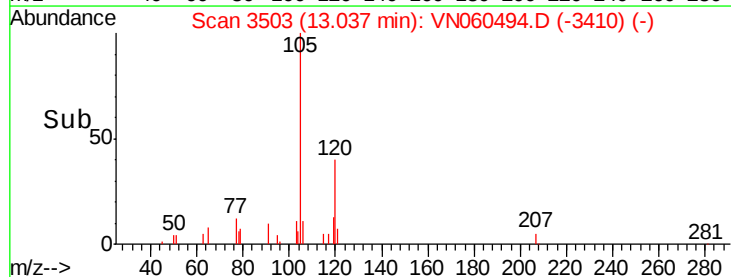
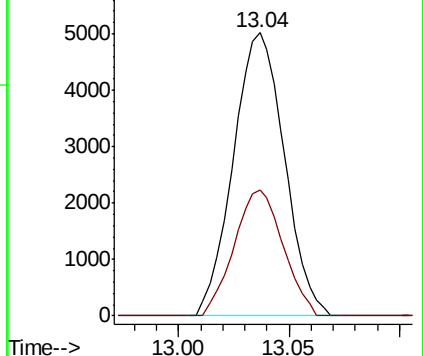
105 100

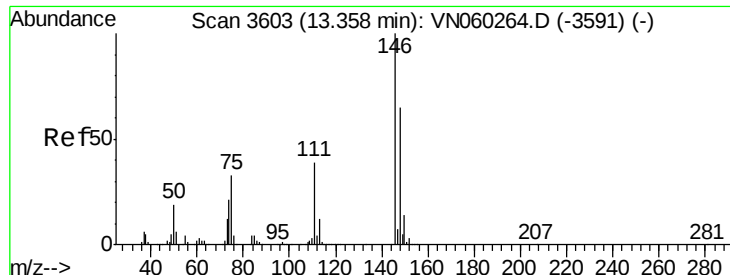
120 42.6 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): VN060494.D (-3503) (-)

Ion 120.00 (119.70 to 120.70): VN060494.D (-3503) (-)





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN060494.D

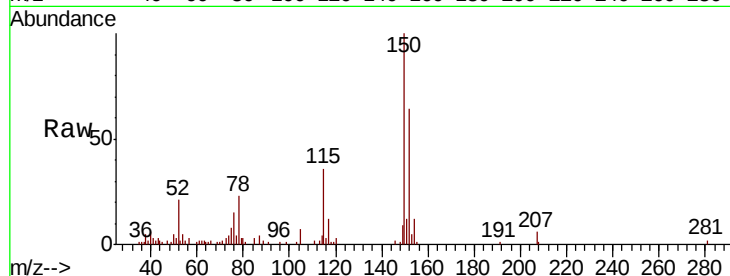
Acq: 13 Mar 2020 12:03

Instrument :

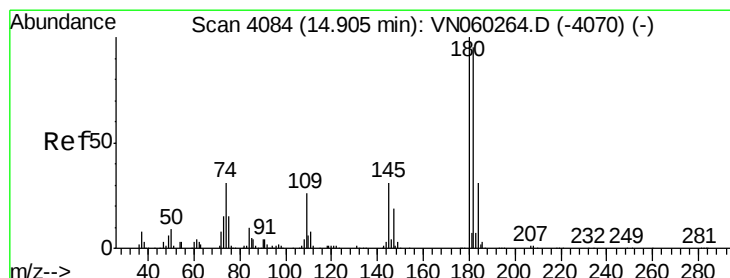
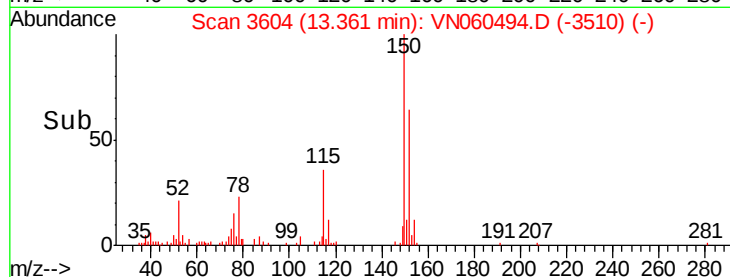
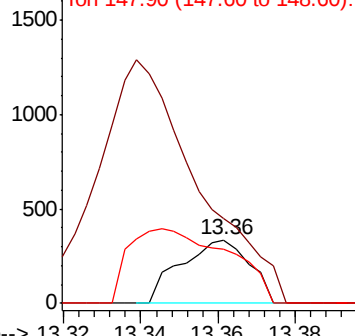
MSVOA_N

ClientSampleId :

Tot Ion:	146	Resp:	415
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.8	59.4#
148	0.0	32.3	96.9#



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.275 ug/l

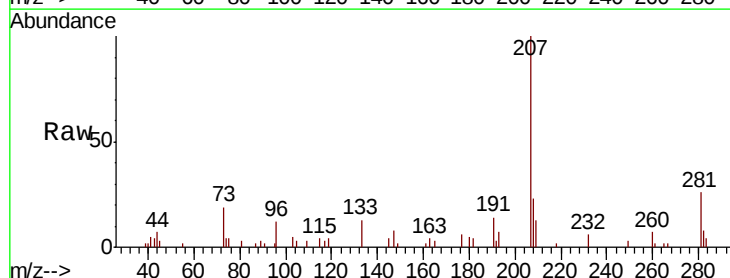
RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN060494.D

Acq: 13 Mar 2020 12:03

Tgt Ion:	180	Resp:	548
Ion	Ratio	Lower	Upper
180	100		
182	73.5	47.8	143.3
145	83.9	15.4	46.1#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

