

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030320\
 Data File : VN060329.D
 Acq On : 3 Mar 2020 15:04
 Operator : JC/MD
 Sample : PB127227ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 04 01:14:43 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	196310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	325433	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	306972	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145934	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	129409	51.38	ug/l	0.00
Spiked Amount						
			Recovery	=	102.76%	
35) Dibromofluoromethane	7.57	113	90184	59.70	ug/l	0.00
Spiked Amount						
			Recovery	=	119.40%	
50) Toluene-d8	10.08	98	401214	52.48	ug/l	0.00
Spiked Amount						
			Recovery	=	104.96%	
62) 4-Bromofluorobenzene	12.40	95	150816	52.04	ug/l	0.00
Spiked Amount						
			Recovery	=	104.08%	

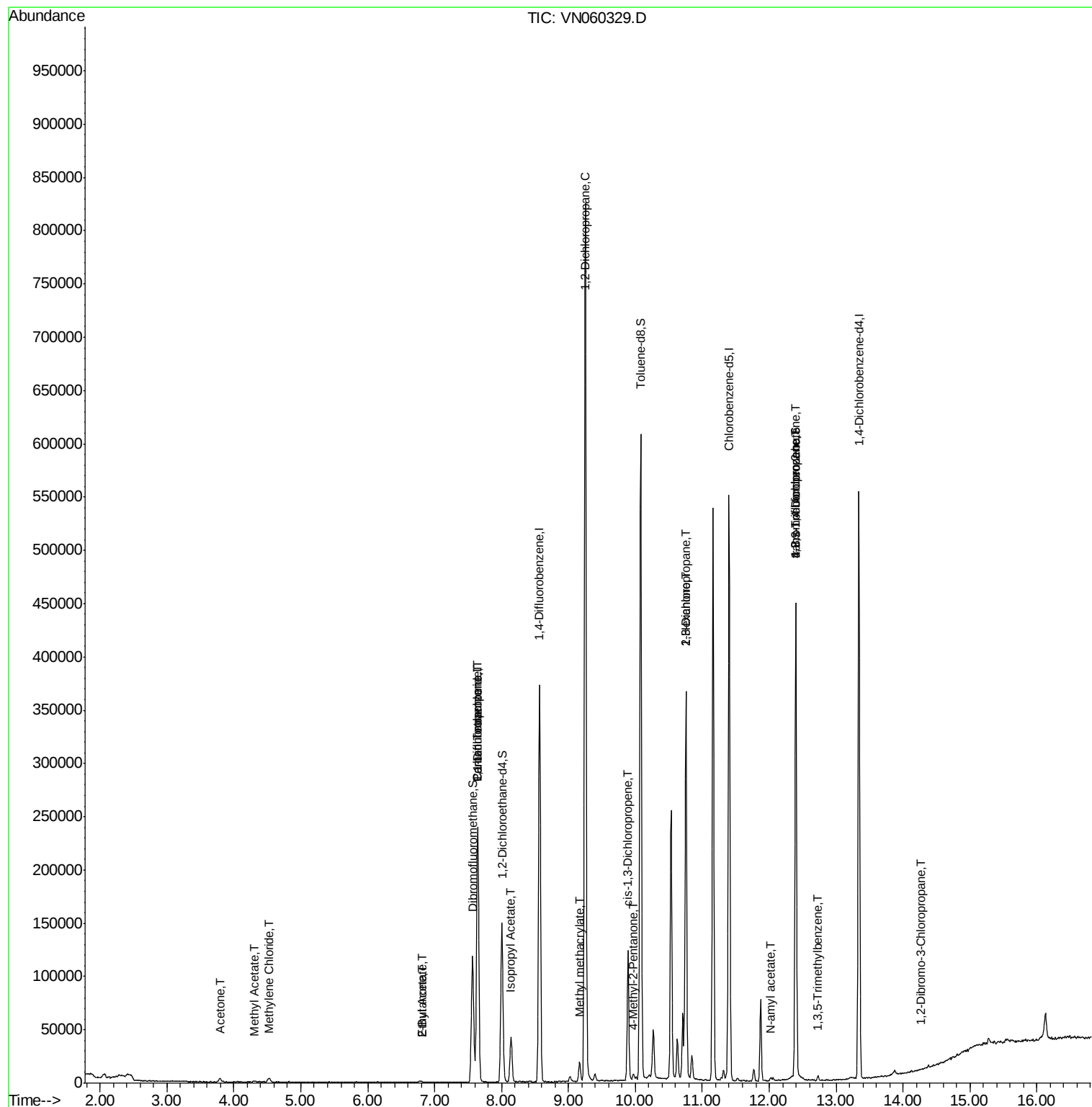
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5623	6.913	ug/l	97
18) Methyl Acetate	4.30	43	989	0.364	ug/l #	52
20) Methylene Chloride	4.53	84	3141	1.406	ug/l	99
21) trans-1,2-Dichloroethene	4.92	96	64	Below Cal	#	1
25) 2-Butanone	6.81	43	617	0.470	ug/l #	49
31) Cyclohexane	7.64	56	4303	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15257	4.919	ug/l #	50
37) Ethyl Acetate	6.81	43	617	0.210	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18824	6.234	ug/l #	16
43) Isopropyl Acetate	8.14	43	50288	9.781	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	986	0.418	ug/l #	44
48) Methyl methacrylate	9.16	41	2496	1.065	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4218	1.447	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	21429	5.419	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3620	0.973	ug/l #	42
59) 2-Hexanone	10.75	43	52736	24.640	ug/l #	52
74) N-amyl acetate	12.02	43	2433	0.515	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	78538	24.529	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2674	0.294	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	78538	67.712	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	112	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	227	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.27	75	184	0.276	ug/l #	3
95) Naphthalene	15.14	128	587	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	29	Below Cal	#	12

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

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Sample : PB127227ZHE#15
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Mar 04 01:14:43 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
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# 1825

Delta R.T. -0.00 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

Instrument :

MSVOA_N

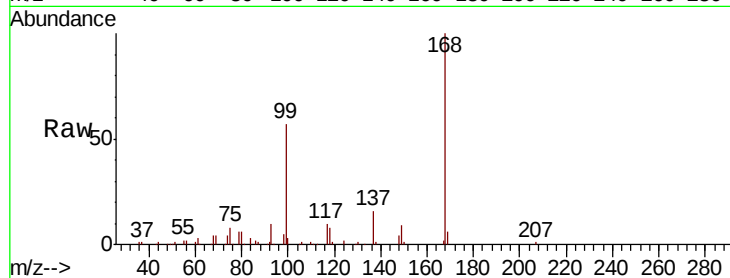
ClientSampled :

Tot Ion:168 Resp: 196310

Ion Ratio Lower Upper

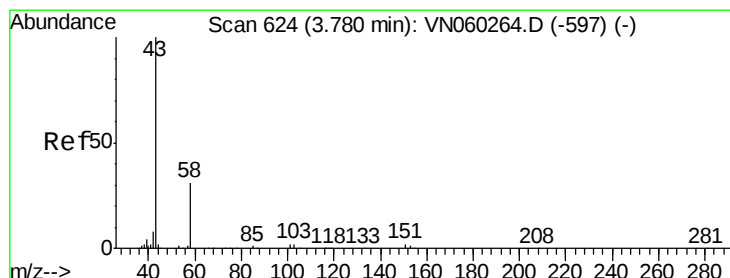
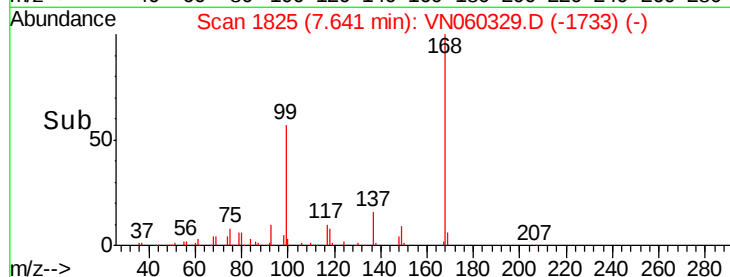
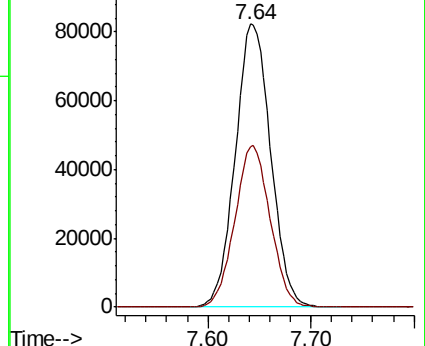
168 100

99 56.7 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 6.913 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060329.D

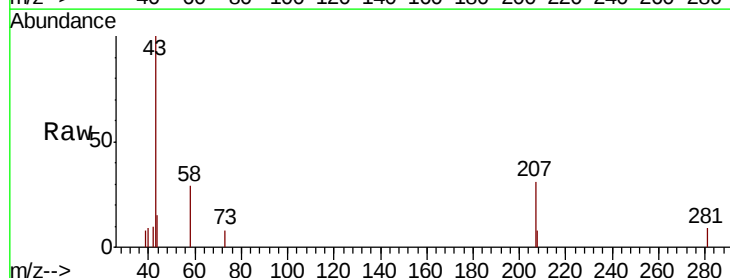
Acq: 3 Mar 2020 15:04

Tgt Ion: 43 Resp: 5623

Ion Ratio Lower Upper

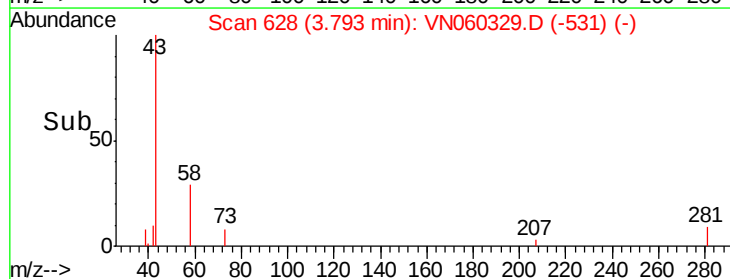
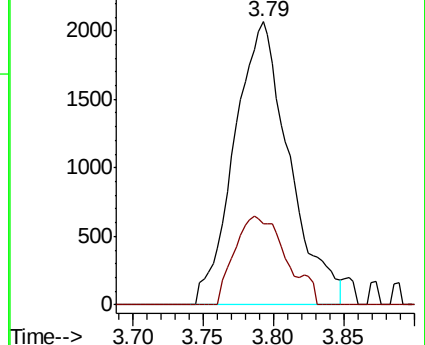
43 100

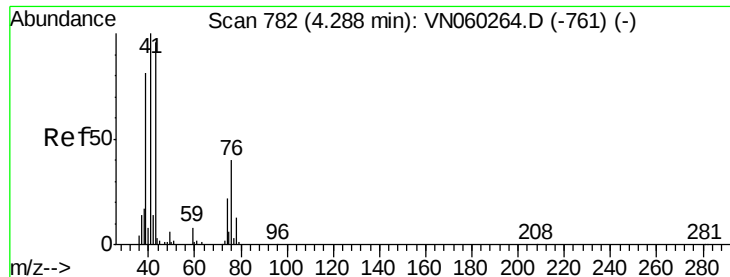
58 28.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

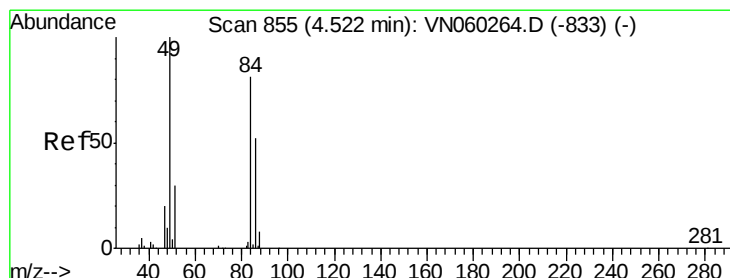
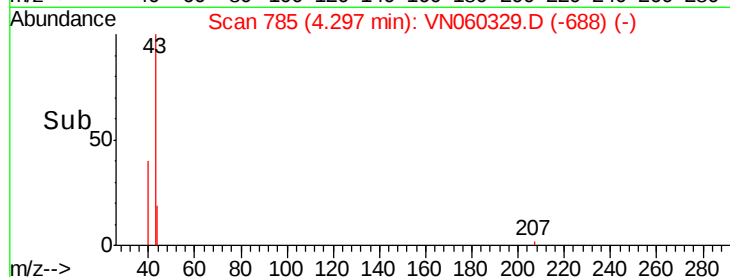
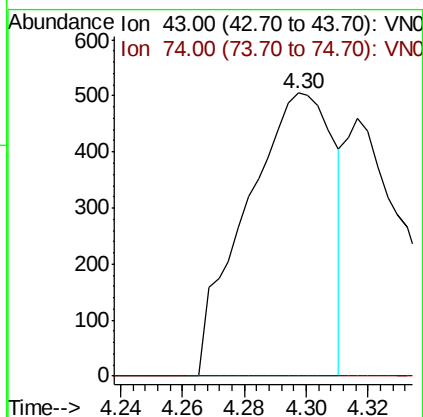
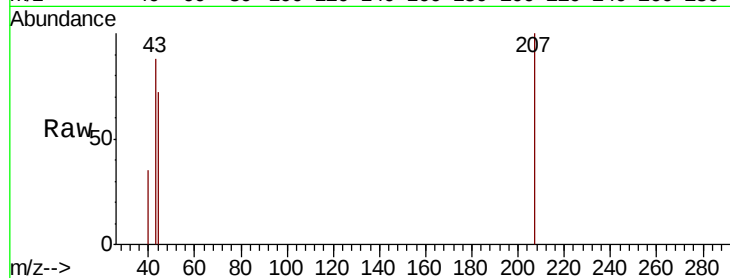




#18
Methyl Acetate
Concen: 0.364 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060329.D
Acq: 3 Mar 2020 15:04

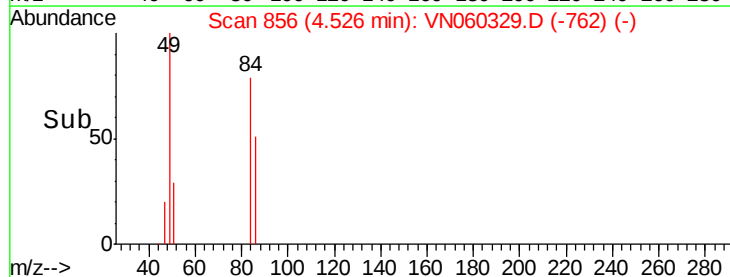
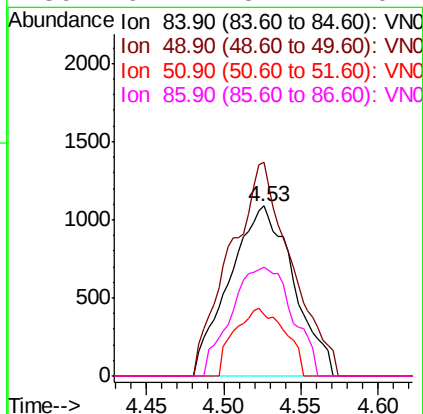
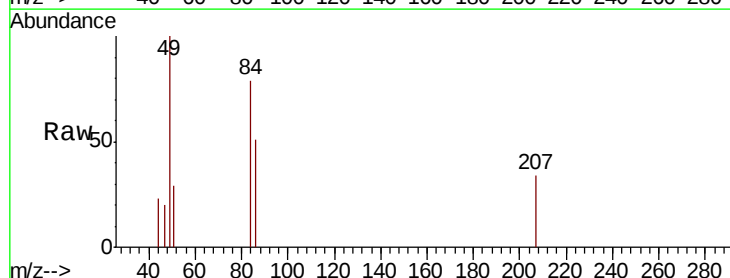
Instrument :
MSVOA_N
ClientSampleId :

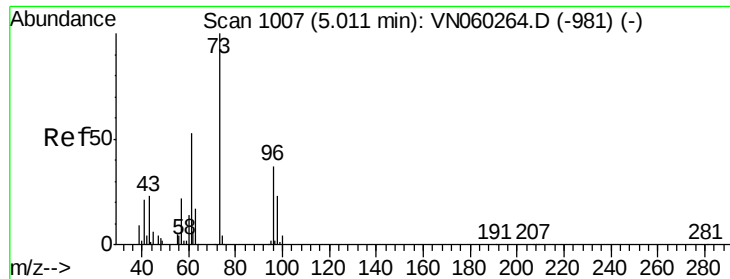
Tot Ion: 43 Resp: 989
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.406 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060329.D
Acq: 3 Mar 2020 15:04

Tgt Ion: 84 Resp: 3141
Ion Ratio Lower Upper
84 100
49 125.9 99.3 148.9
51 36.0 30.1 45.1
86 64.2 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 4.92 min Scan# 978

Delta R.T. -0.09 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

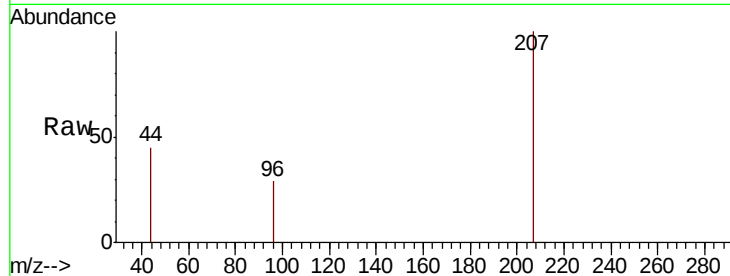
Tot Ion: 96 Resp: 64

Ion Ratio Lower Upper

96 100

61 0.0 113.8 170.8#

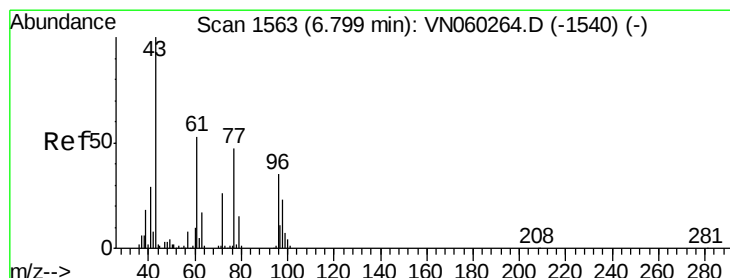
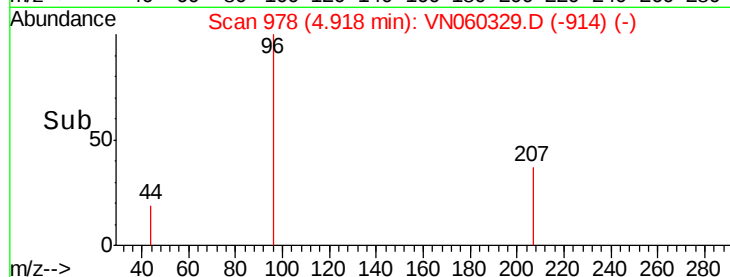
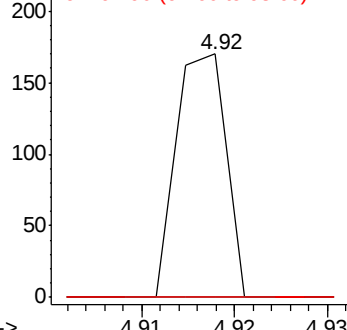
98 0.0 48.8 73.2#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#25

2-Butanone

Concen: 0.470 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN060329.D

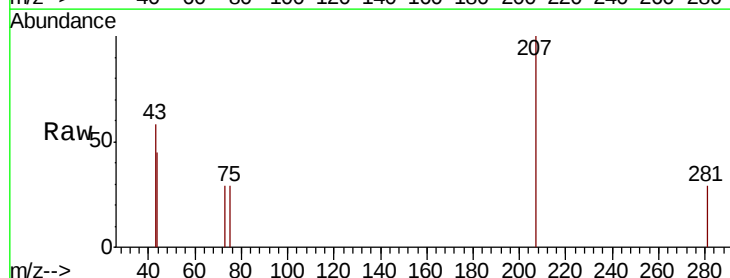
Acq: 3 Mar 2020 15:04

Tgt Ion: 43 Resp: 617

Ion Ratio Lower Upper

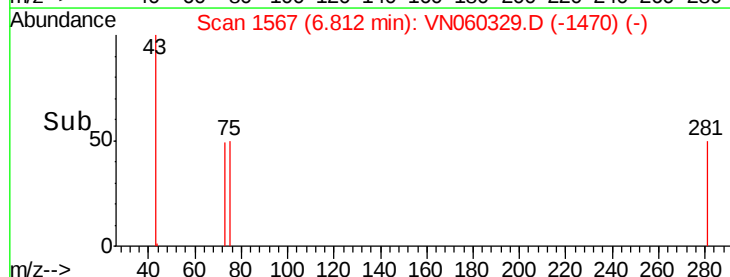
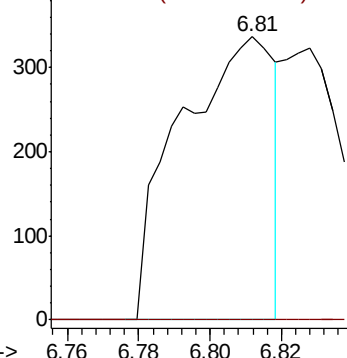
43 100

72 0.0 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: 51.380 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

Instrument :

MSVOA_N

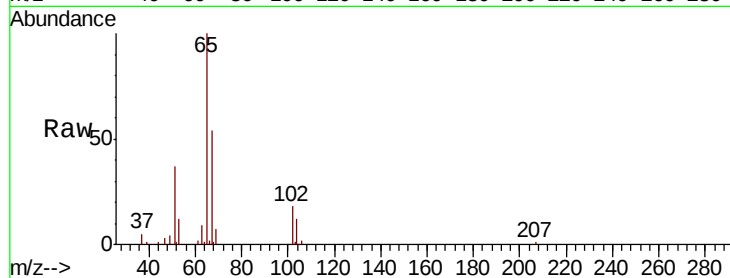
ClientSampled :

Tot Ion: 65 Resp: 129409

Ion Ratio Lower Upper

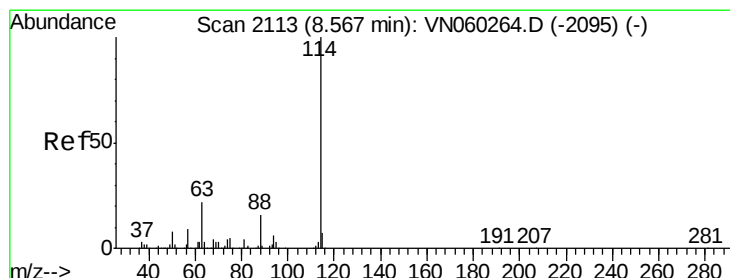
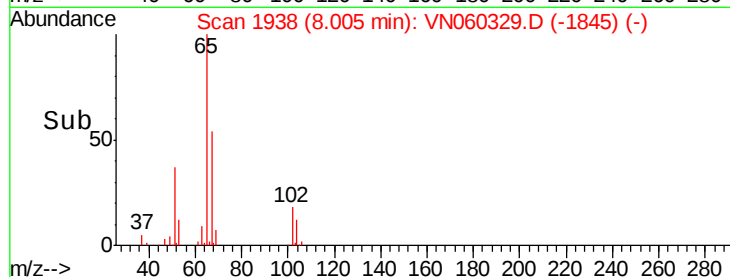
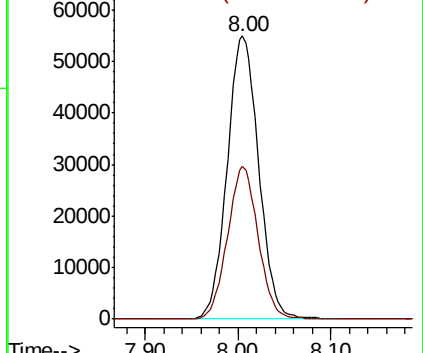
65 100

67 52.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060329.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060329.D (-1845) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

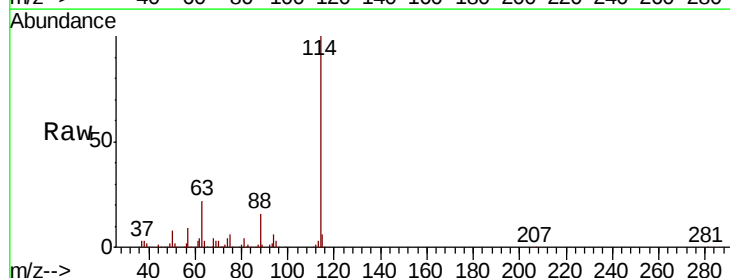
Tgt Ion: 114 Resp: 325433

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.2

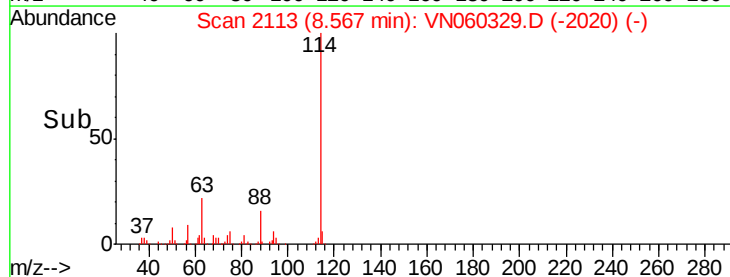
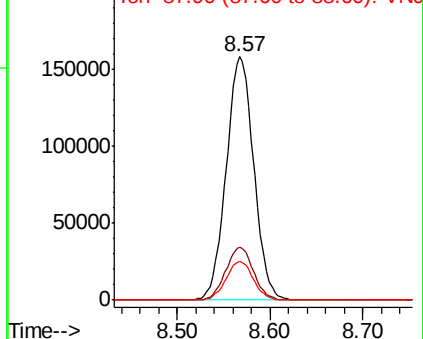
88 15.8 0.0 31.6

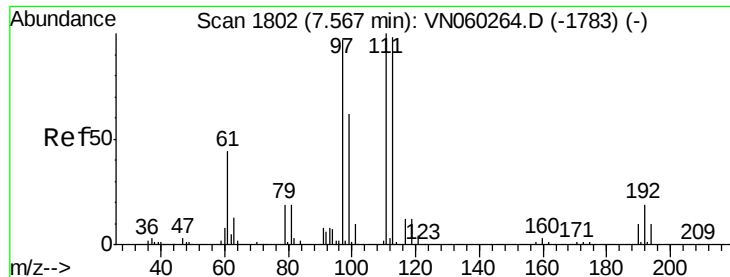


Abundance Ion 113.90 (113.60 to 114.60): VN060329.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN060329.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN060329.D (-2020) (-)

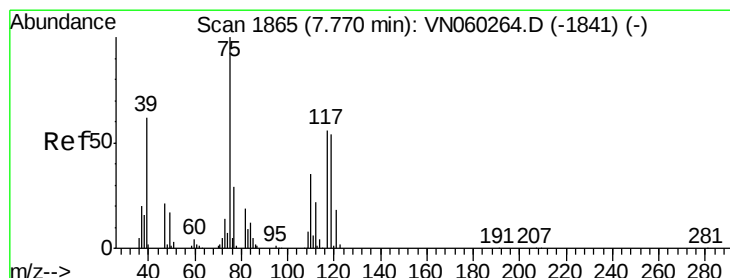
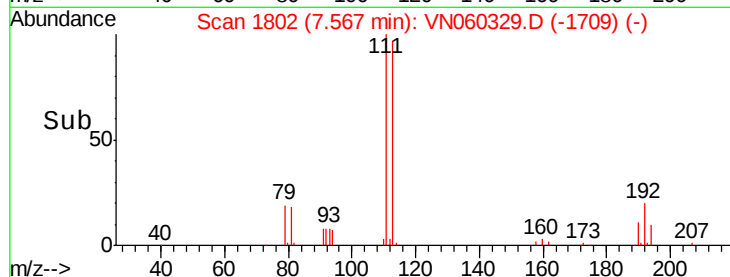
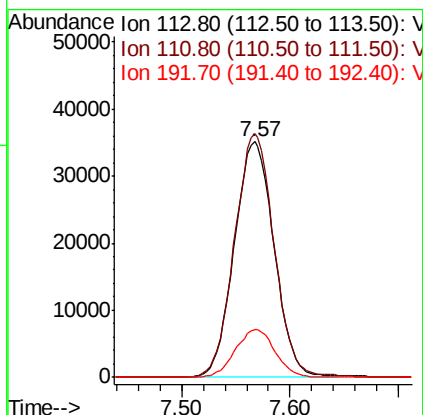
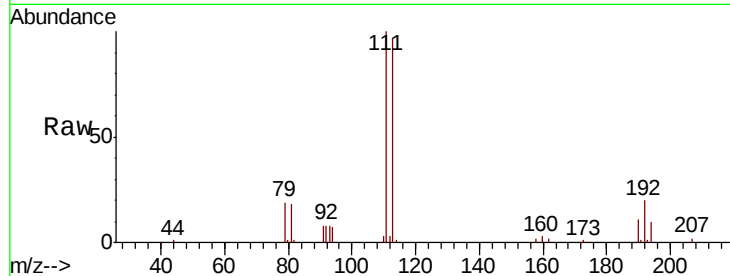




#35
 Dibromofluoromethane
 Concen: 59.703 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060329.D
 Acq: 3 Mar 2020 15:04

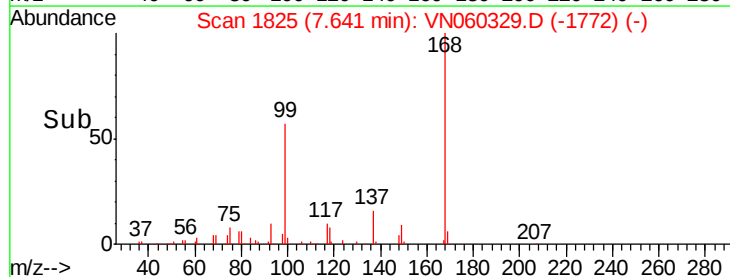
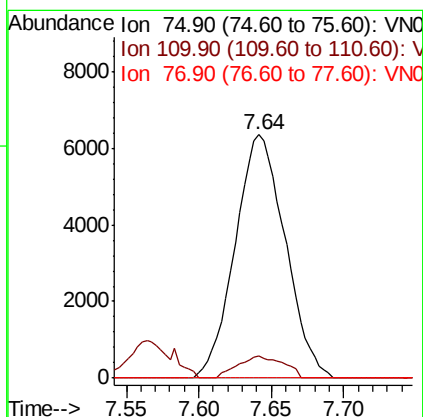
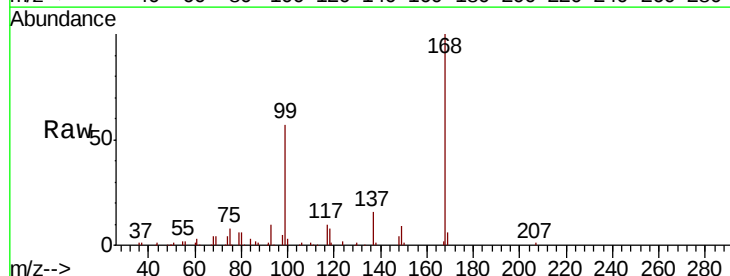
Instrument :
 MSVOA_N
 ClientSampleId :

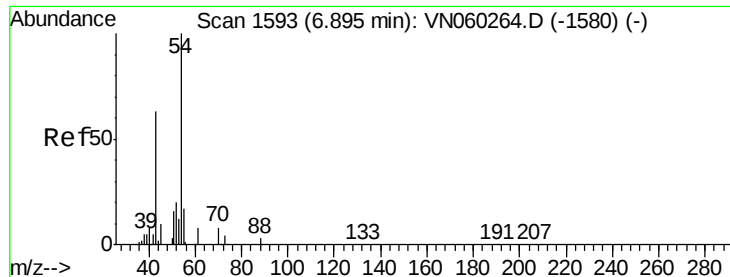
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.4	123.6
192	20.2	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 4.919 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060329.D
 Acq: 3 Mar 2020 15:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.3	52.0#
77	0.0	24.2	36.2#

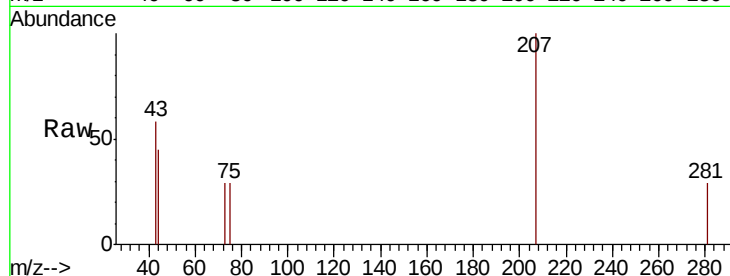




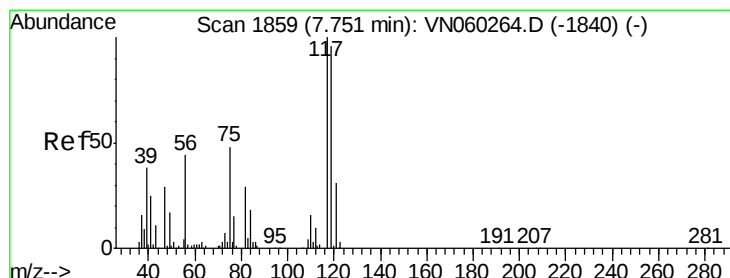
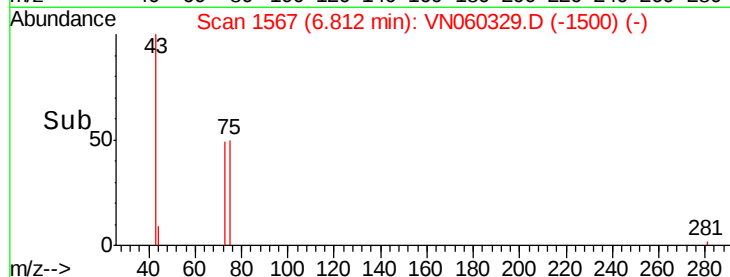
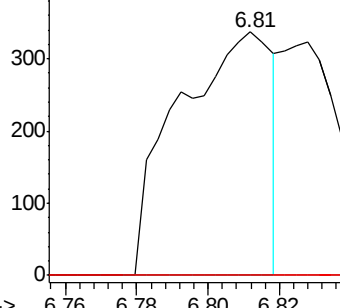
#37
Ethyl Acetate
Concen: 0.210 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.08 min
Lab File: VN060329.D
Acq: 3 Mar 2020 15:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 617
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#

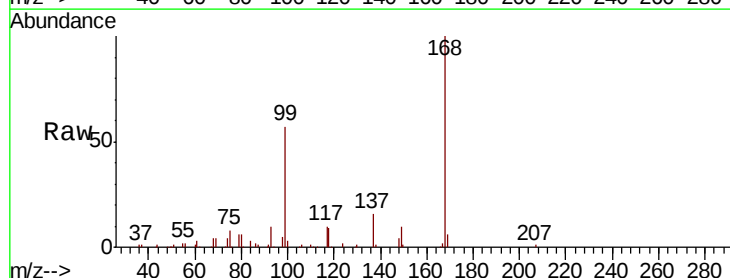


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

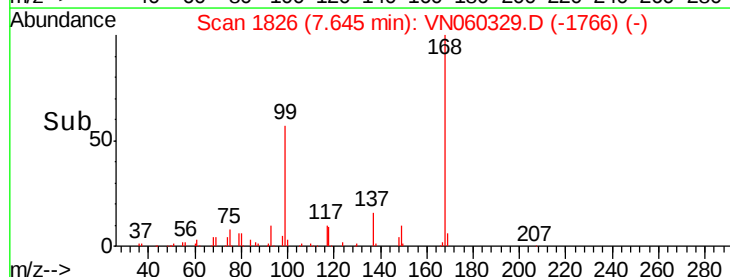
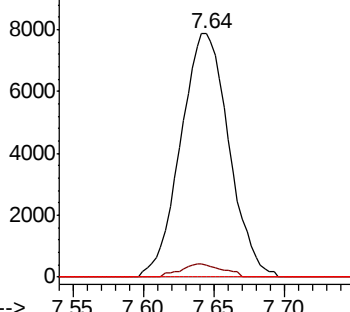


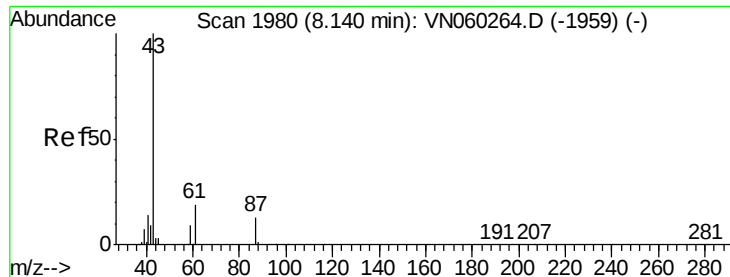
#38
Carbon Tetrachloride
Concen: 6.234 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060329.D
Acq: 3 Mar 2020 15:04

Tgt Ion: 117 Resp: 18824
Ion Ratio Lower Upper
117 100
119 5.1 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: 9.781 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

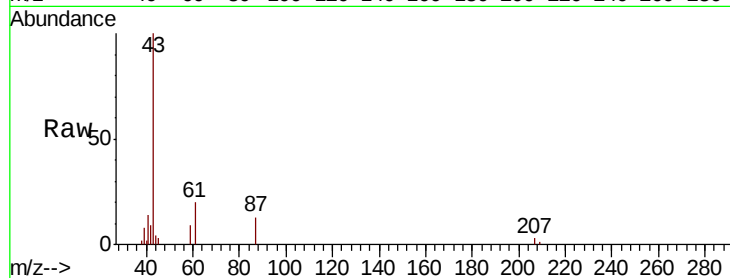
Tot Ion: 43 Resp: 50288

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

87 12.2 10.6 16.0



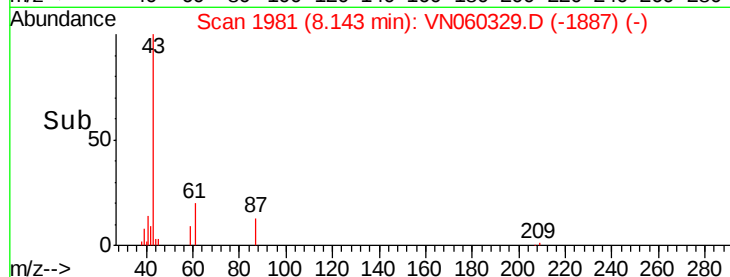
Abundance Ion 43.00 (42.70 to 43.70): VN060329.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060329.D (-1887) (-)

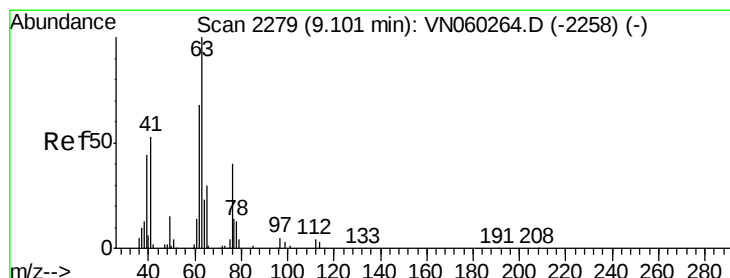
Ion 87.00 (86.70 to 87.70): VN060329.D (-1887) (-)

8.14

Time-->



Time-->



#45

1,2-Dichloropropane

Concen: 0.418 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060329.D

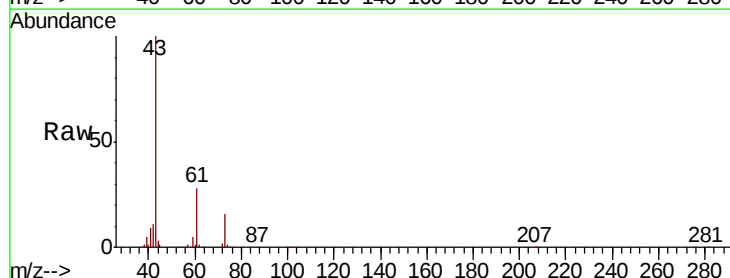
Acq: 3 Mar 2020 15:04

Tgt Ion: 63 Resp: 986

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#

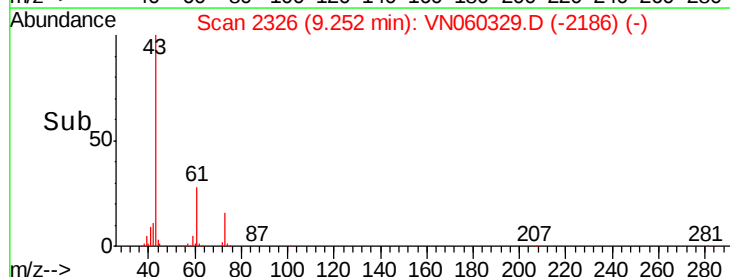


Abundance Ion 62.90 (62.60 to 63.60): VN060329.D (-2186) (-)

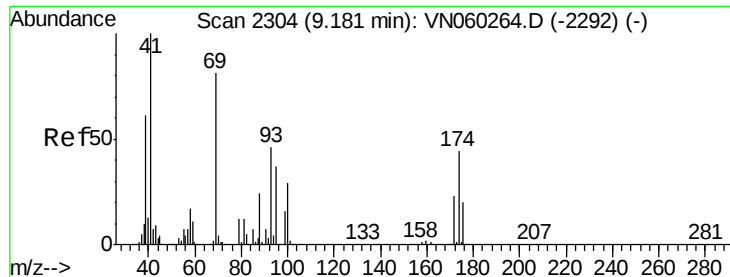
Ion 64.90 (64.60 to 65.60): VN060329.D (-2186) (-)

9.25

Time-->



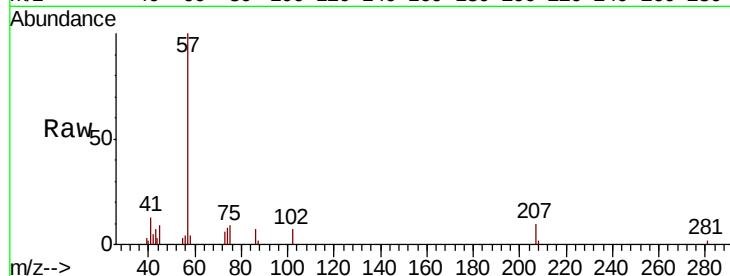
Time-->



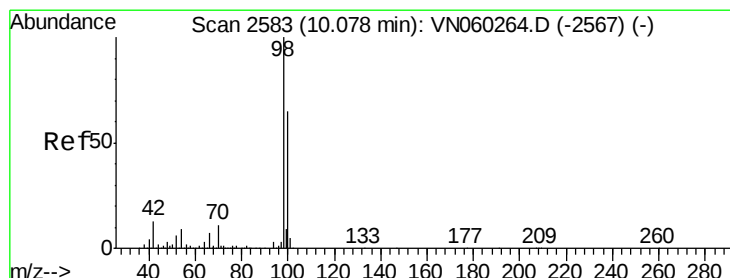
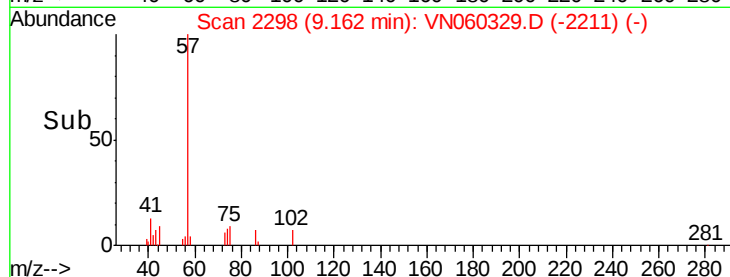
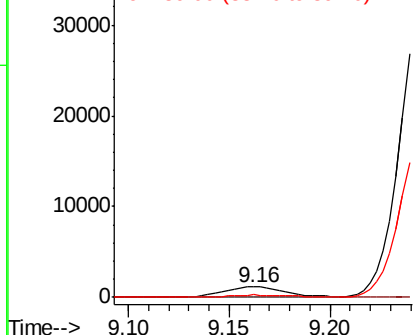
#48
Methvl methacrylate
Concen: 1.065 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060329.D
Acq: 3 Mar 2020 15:04

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2496
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

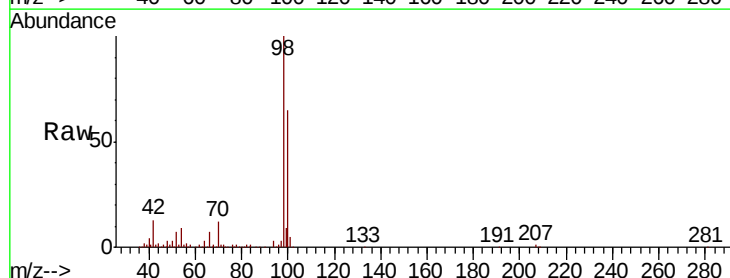


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

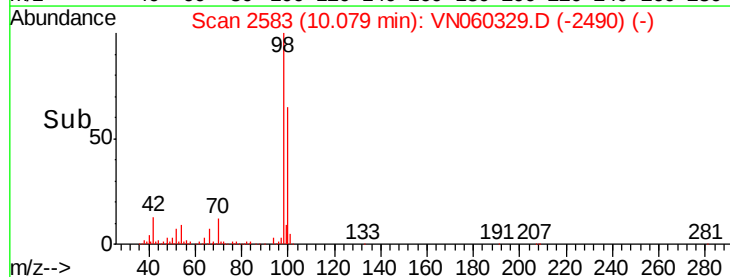
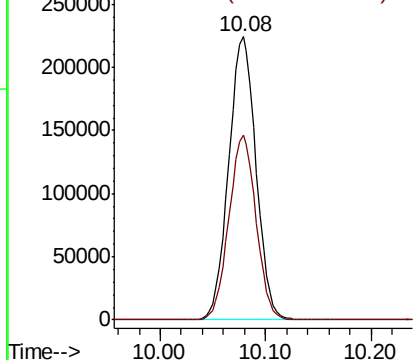


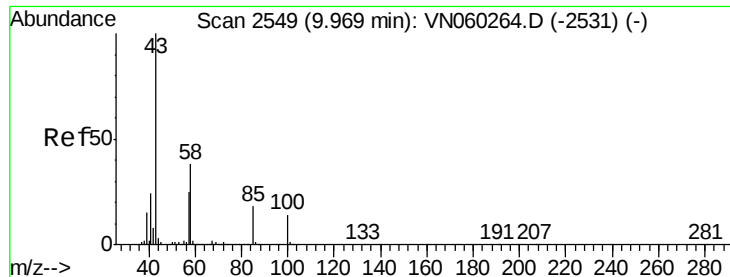
#50
Toluene-d8
Concen: 52.480 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060329.D
Acq: 3 Mar 2020 15:04

Tgt Ion: 98 Resp: 401214
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

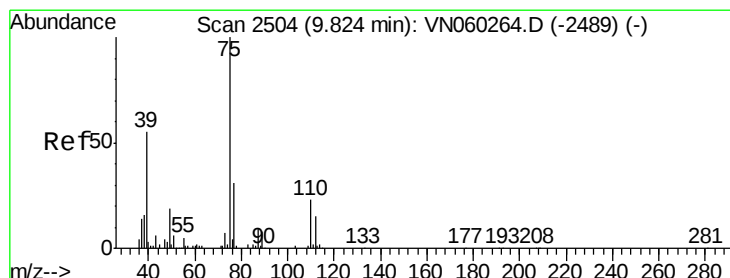
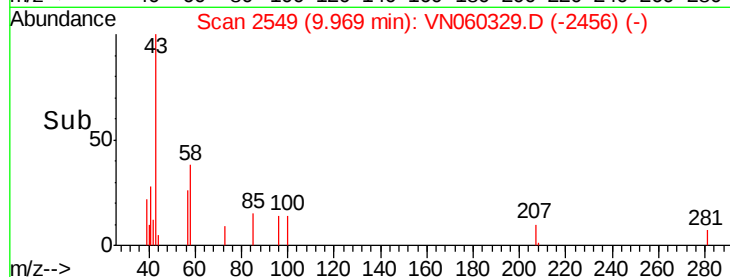
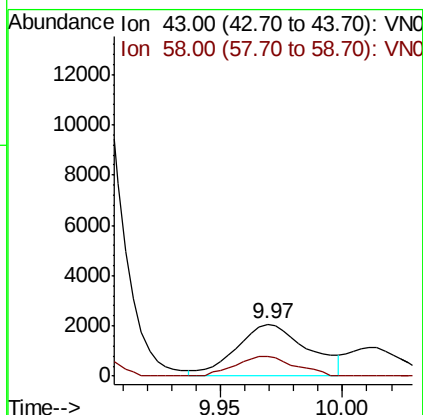
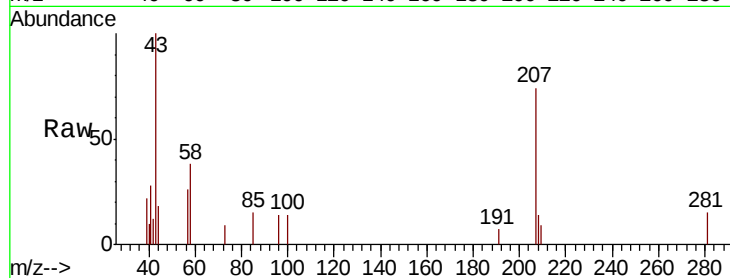




#51
 4-Methyl-2-Pentanone
 Concen: 1.447 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060329.D
 Acq: 3 Mar 2020 15:04

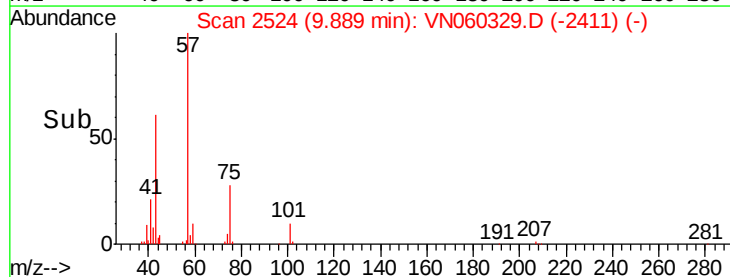
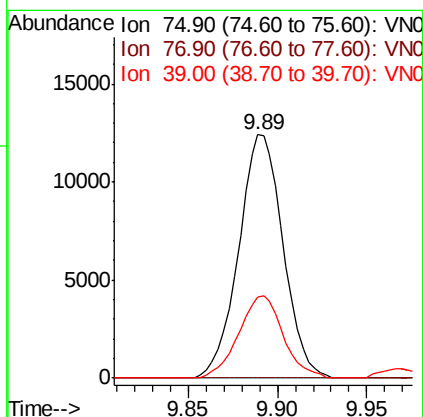
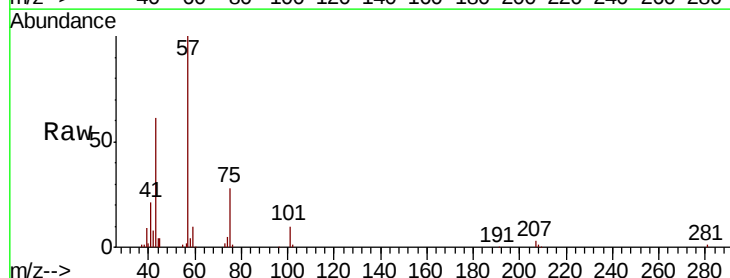
Instrument :
 MSVOA_N
 ClientSampled :

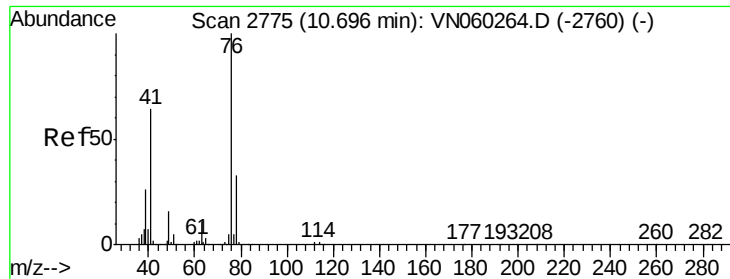
Tot Ion: 43 Resp: 4218
 Ion Ratio Lower Upper
 43 100
 58 31.3 30.9 46.3



#54
 cis-1,3-Dichloropropene
 Concen: 5.419 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060329.D
 Acq: 3 Mar 2020 15:04

Tgt Ion: 75 Resp: 21429
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 33.4 43.8 65.8#

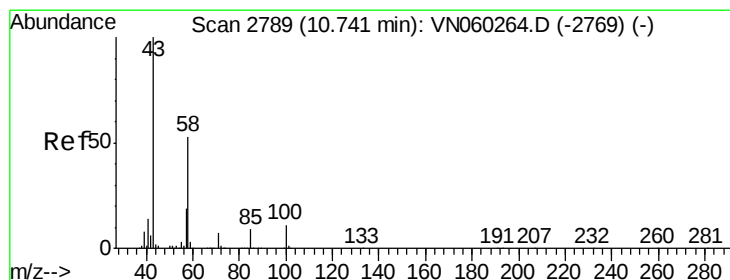
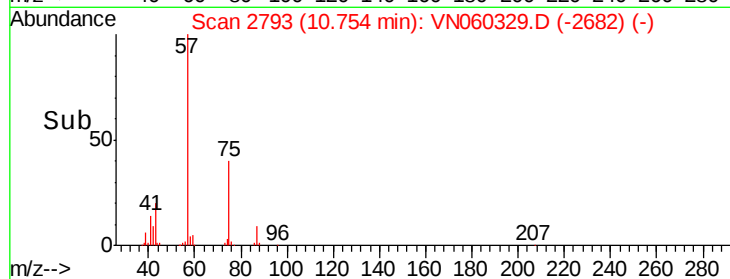
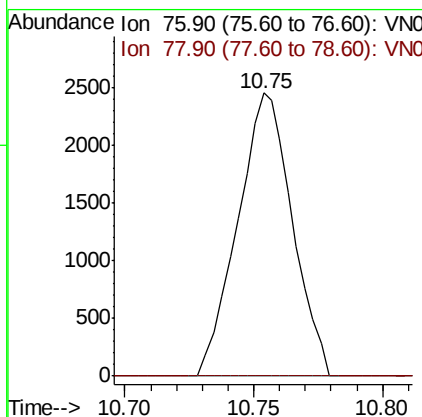
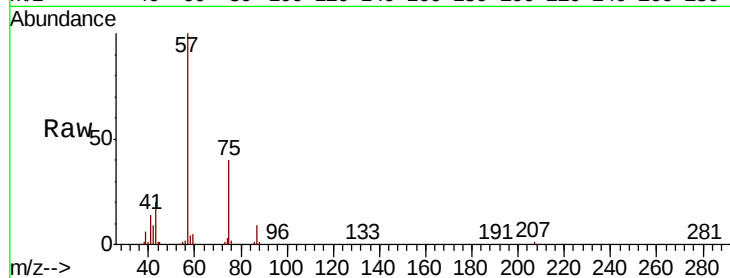




#57
 1,3-Dichloropropane
 Concen: 0.973 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060329.D
 Acq: 3 Mar 2020 15:04

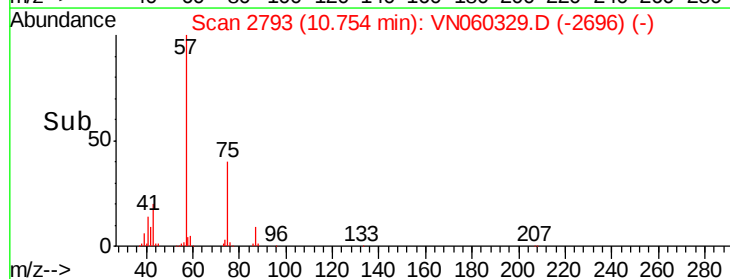
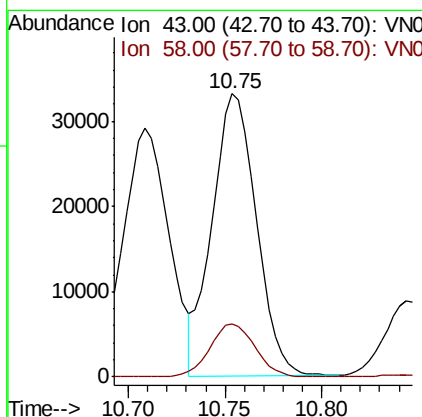
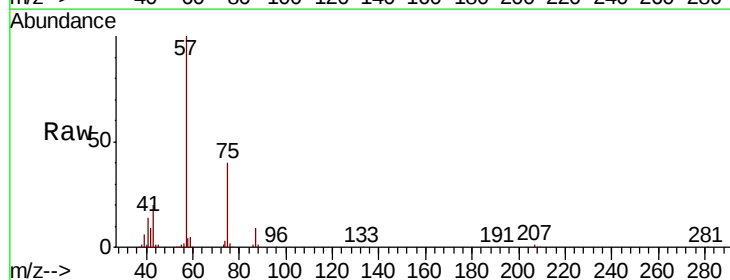
Instrument :
 MSVOA_N
 ClientSampled :

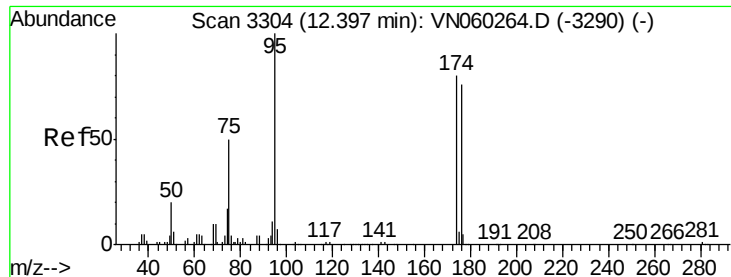
Tot Ion: 76 Resp: 3620
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 24.640 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060329.D
 Acq: 3 Mar 2020 15:04

Tgt Ion: 43 Resp: 52736
 Ion Ratio Lower Upper
 43 100
 58 19.1 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 52.040 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampleId :

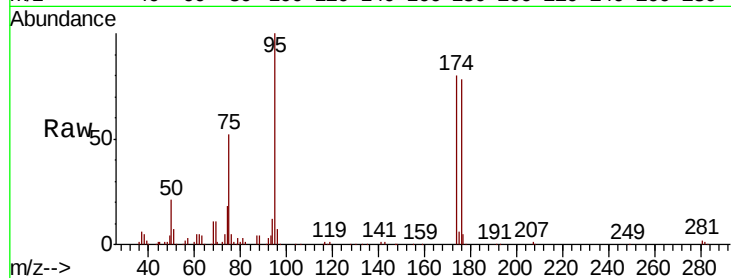
Tot Ion: 95 Resp: 150816

Ion Ratio Lower Upper

95 100

174 80.5 0.0 159.2

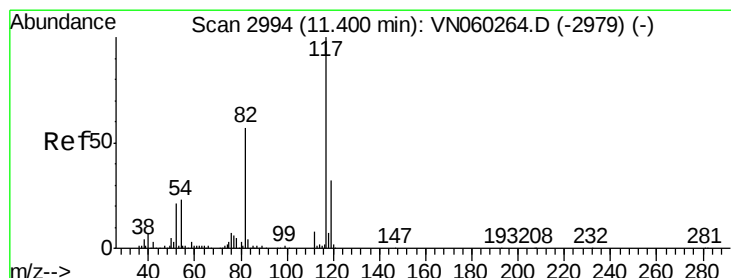
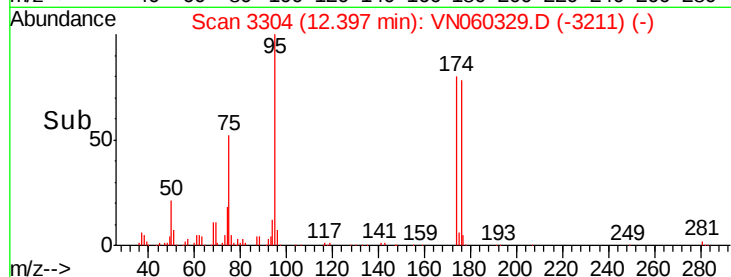
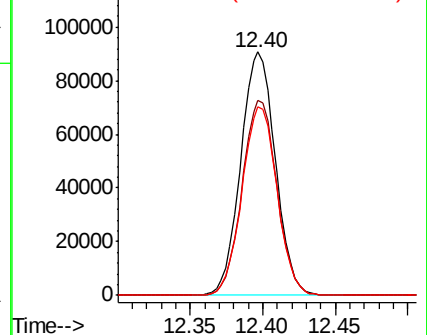
176 78.5 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060329.D (-2901) (-)

Ion 173.80 (173.50 to 174.50): VN060329.D (-2901) (-)

Ion 175.80 (175.50 to 176.50): VN060329.D (-2901) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

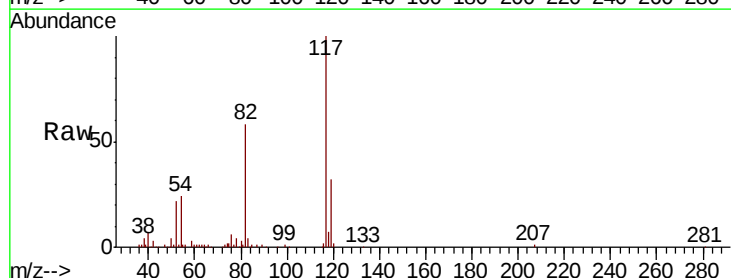
Tgt Ion: 117 Resp: 306972

Ion Ratio Lower Upper

117 100

82 57.9 45.8 68.6

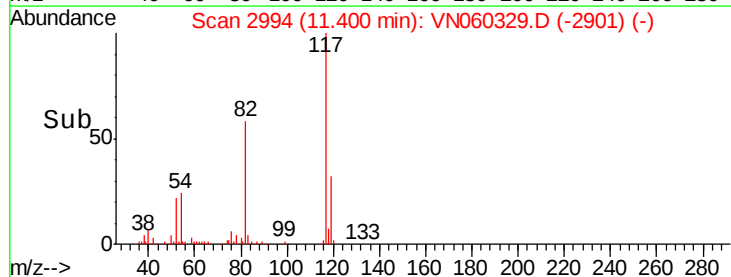
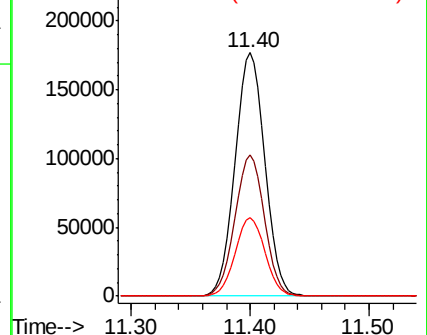
119 32.2 25.8 38.8

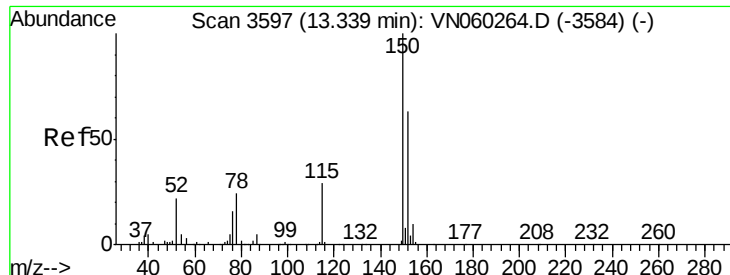


Abundance Ion 116.90 (116.60 to 117.60): VN060329.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060329.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060329.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampled :

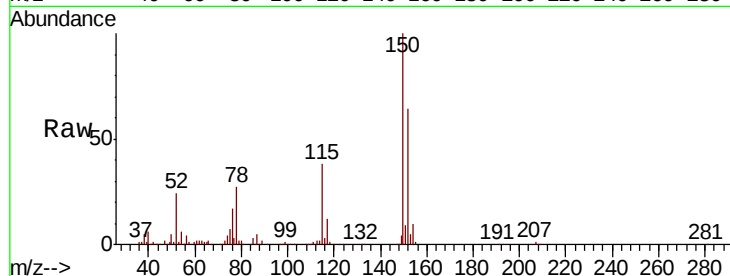
Tot Ion:152 Resp: 145934

Ion Ratio Lower Upper

152 100

115 59.7 30.0 90.0

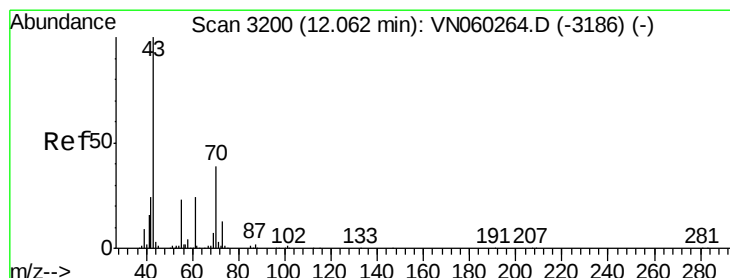
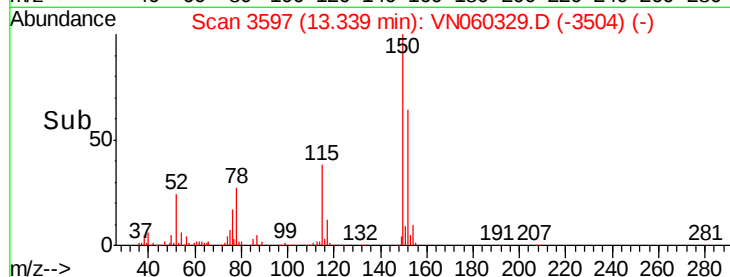
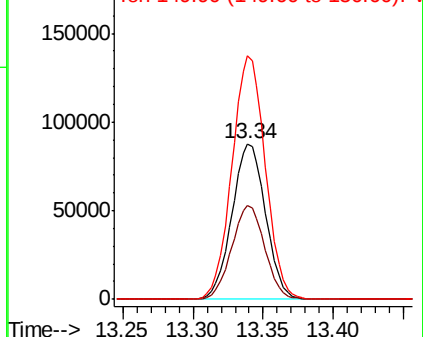
150 155.9 0.0 349.6



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



#74

N-ethyl acetate

Concen: 0.515 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

Tgt Ion: 43 Resp: 2433

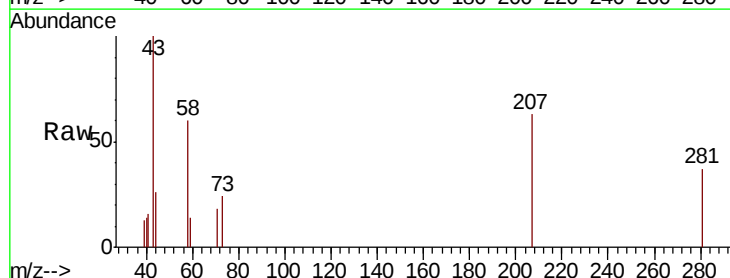
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

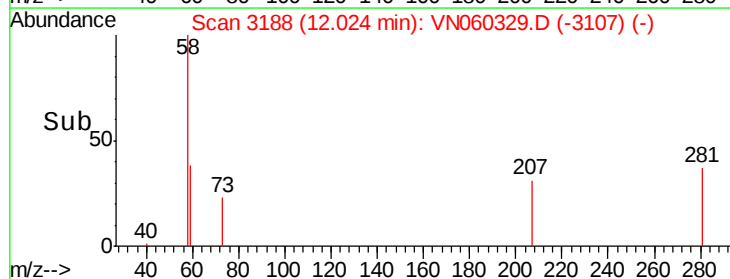
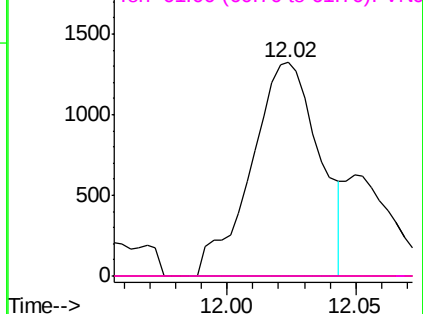


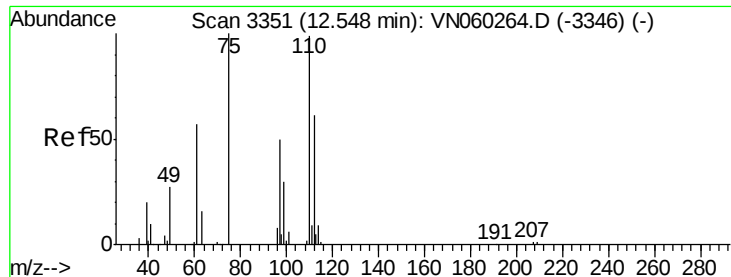
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 24.529 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

Instrument :

MSVOA_N

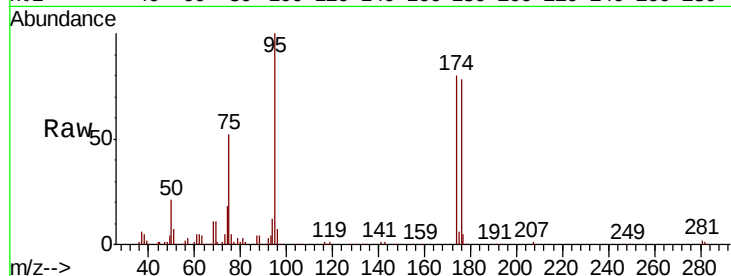
ClientSampled :

Tot Ion: 75 Resp: 78538

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060329.D (-3257) (-)

Ion 77.00 (76.70 to 77.70): VN060329.D (-3257) (-)

12.40

50000

40000

30000

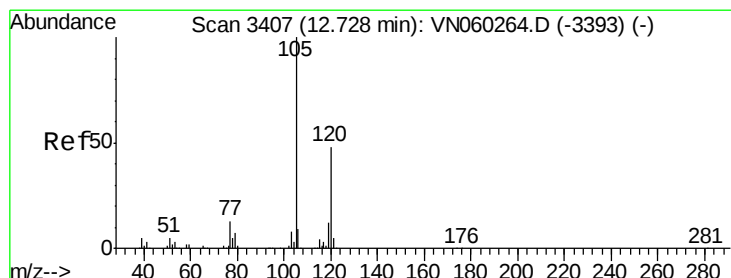
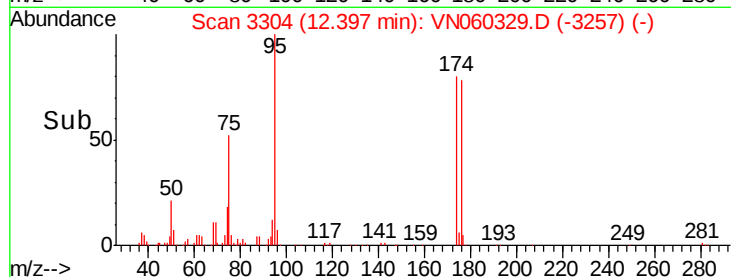
20000

10000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.294 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060329.D

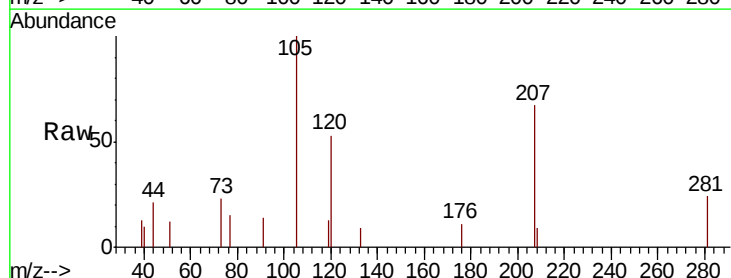
Acq: 3 Mar 2020 15:04

Tgt Ion:105 Resp: 2674

Ion Ratio Lower Upper

105 100

120 51.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060329.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060329.D (-3314) (-)

12.73

2000

1500

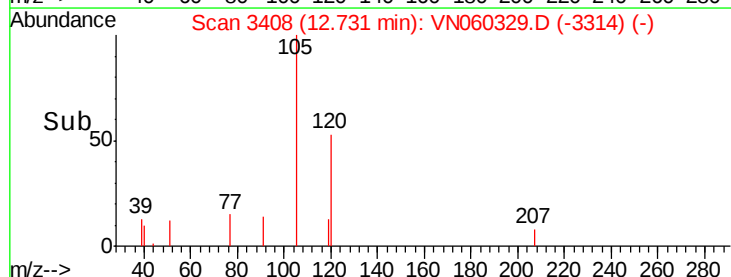
1000

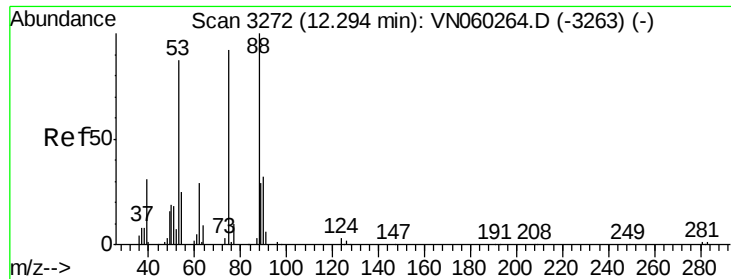
500

0

12.70 12.75

Time-->

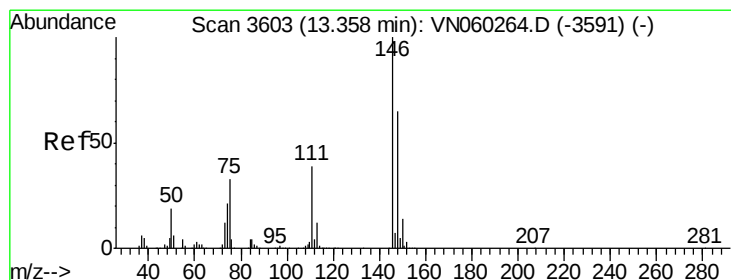
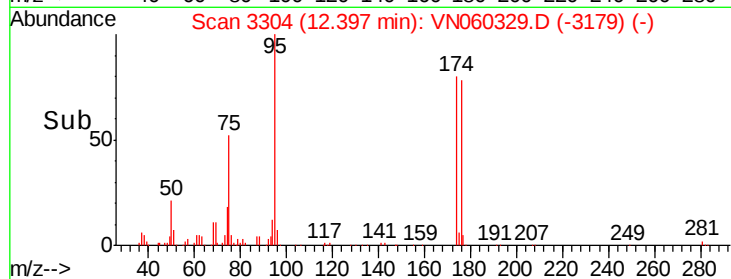
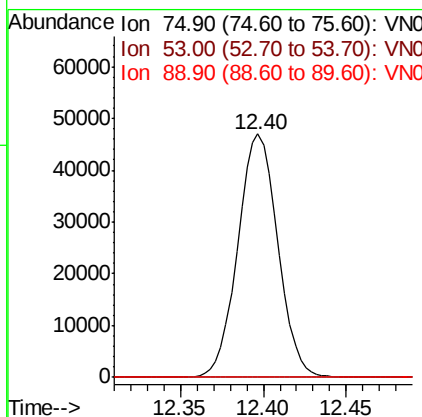
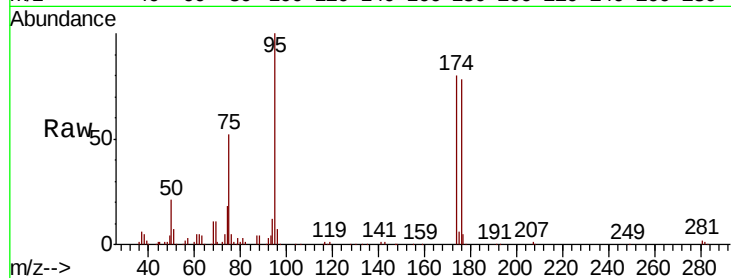




#81
trans-1,4-Dichloro-2-butene
Concen: 67.712 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060329.D
Acq: 3 Mar 2020 15:04

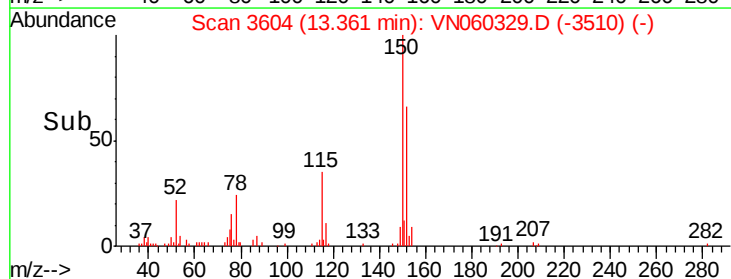
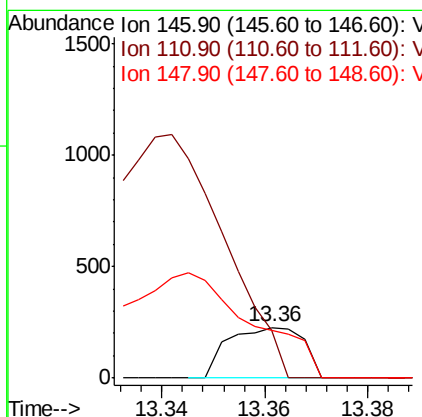
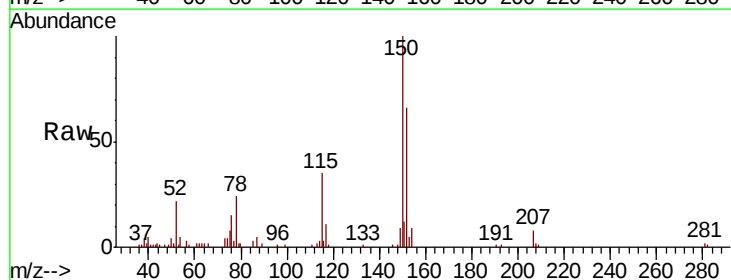
Instrument :
MSVOA_N
ClientSampleId :

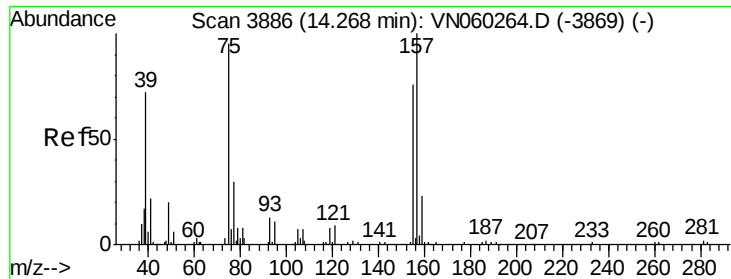
Tot Ion: 75 Resp: 78538
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 57.1 85.7#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.36 min Scan# 3604
Delta R.T. 0.00 min
Lab File: VN060329.D
Acq: 3 Mar 2020 15:04

Tgt Ion: 146 Resp: 227
Ion Ratio Lower Upper
146 100
111 814.5 19.8 59.4#
148 367.0 32.3 96.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.276 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

Instrument :

MSVOA_N

ClientSampled :

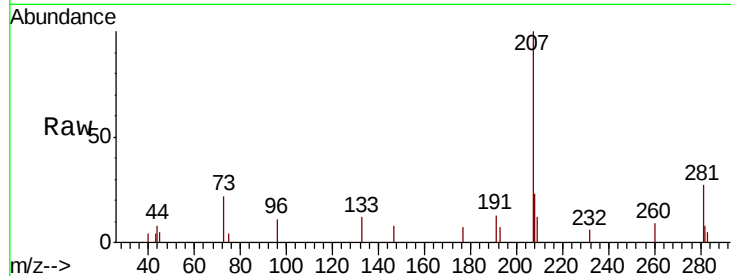
Tot Ion: 75 Resp: 184

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

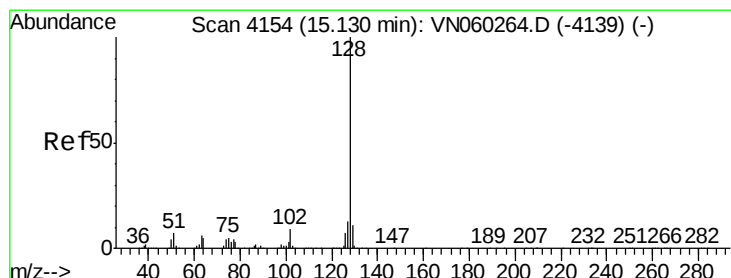
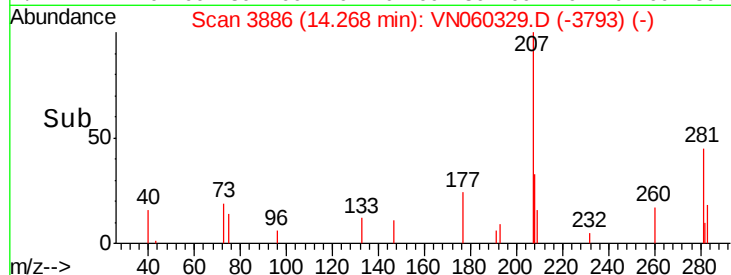
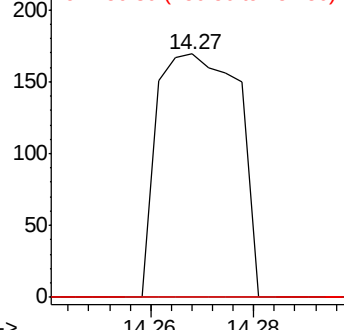
157 0.0 52.5 157.5#



Abundance Ion 74.90 (74.60 to 75.60): VN

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN060329.D

Acq: 3 Mar 2020 15:04

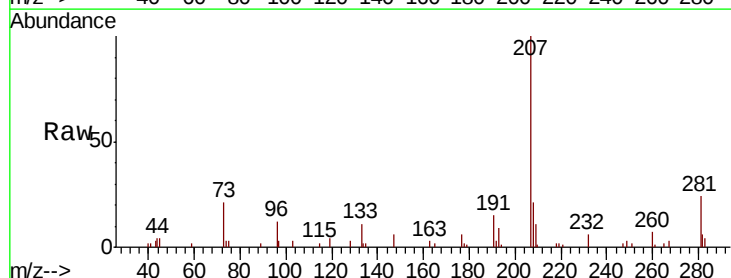
Tgt Ion: 128 Resp: 587

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



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

