

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081720\
 Data File : VN062977.D
 Acq On : 17 Aug 2020 18:43
 Operator : JC/MD
 Sample : VN0817WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBL01

Quant Time: Aug 18 05:50:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081720W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 17 17:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	219534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	363829	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	376889	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	141931	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	145460	62.55	ug/l	0.00
Spiked Amount			Recovery	=	125.10%	
35) Dibromofluoromethane	7.55	113	123067	51.93	ug/l	0.00
Spiked Amount			Recovery	=	103.86%	
50) Toluene-d8	10.06	98	464051	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
62) 4-Bromofluorobenzene	12.38	95	162158	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	

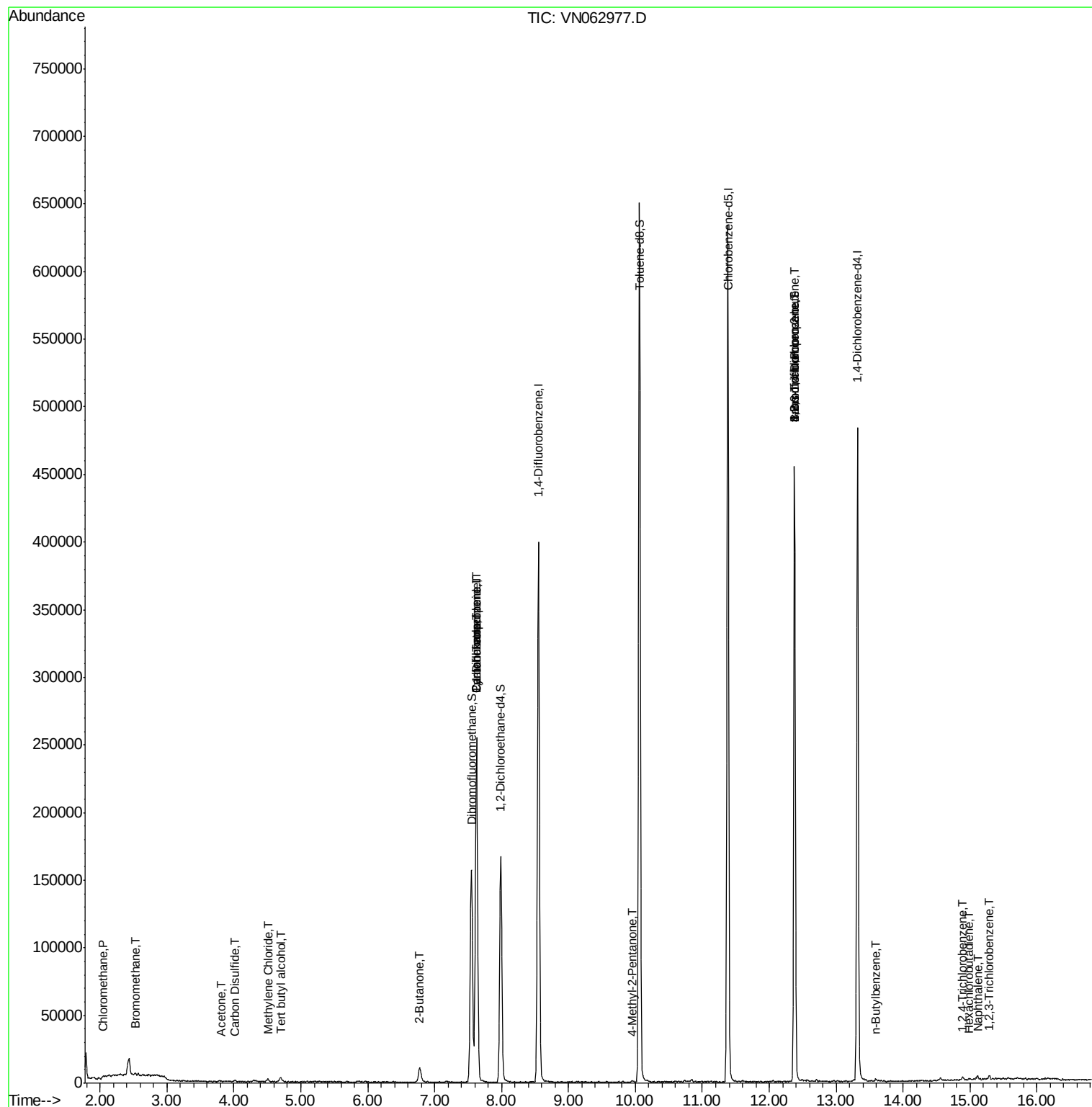
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	29	Below Cal	#	43
3) Chloromethane	2.04	50	504	0.213	ug/l #	42
5) Bromomethane	2.53	94	538	0.254	ug/l	89
11) Tert butyl alcohol	4.70	59	2822	7.101	ug/l #	74
16) Acetone	3.80	43	757	0.841	ug/l #	39
17) Carbon Disulfide	4.01	76	1492	0.276	ug/l #	75
18) Methyl Acetate	4.28	43	976	Below Cal	#	73
20) Methylene Chloride	4.50	84	1553	1.317	ug/l	96
25) 2-Butanone	6.78	43	473	0.364	ug/l #	45
29) Tetrahydrofuran	7.16	42	29	Below Cal	#	29
31) Cyclohexane	7.62	56	4052	1.130	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	15867	5.084	ug/l #	47
38) Carbon Tetrachloride	7.63	117	20061	6.084	ug/l #	16
51) 4-Methyl-2-Pentanone	9.96	43	935	0.308	ug/l #	33
59) 2-Hexanone	10.73	43	1092	Below Cal	#	58
71) Bromoform	12.38	173	1416	0.565	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.48	83	66	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.38	75	76611	27.317	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	76611	73.187	ug/l #	16
89) n-Butylbenzene	13.59	91	1379	0.204	ug/l	92
93) 1,2,4-Trichlorobenzene	14.89	180	896	4.604	ug/l	97
94) Hexachlorobutadiene	14.99	225	389	0.224	ug/l #	43
95) Naphthalene	15.11	128	3685	0.379	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.29	180	1296	4.200	ug/l	96

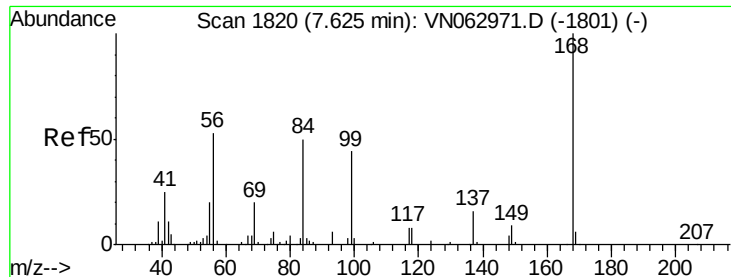
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN081720\
Data File : VN062977.D
Acq On : 17 Aug 2020 18:43
Operator : JC/MD
Sample : VN0817WBL01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBL01

Quant Time: Aug 18 05:50:51 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N081720W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 17 17:31:03 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

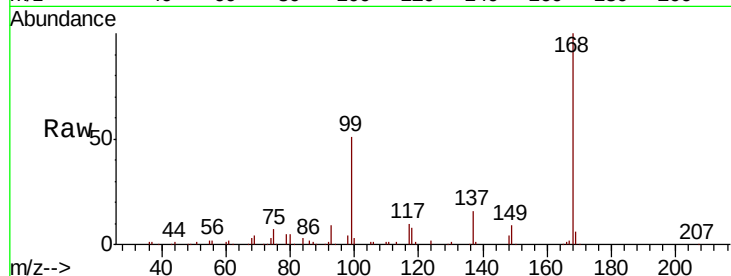
VN0817WBL01

Tot Ion:168 Resp: 219534

Ion Ratio Lower Upper

168 100

99 51.5 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

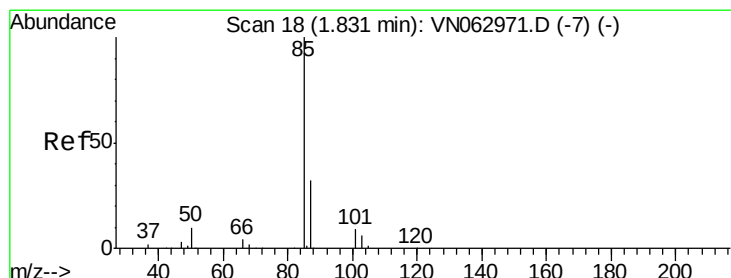
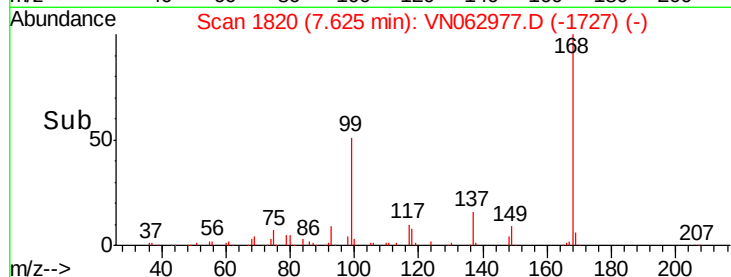
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.83 min Scan# 17

Delta R.T. -0.00 min

Lab File: VN062977.D

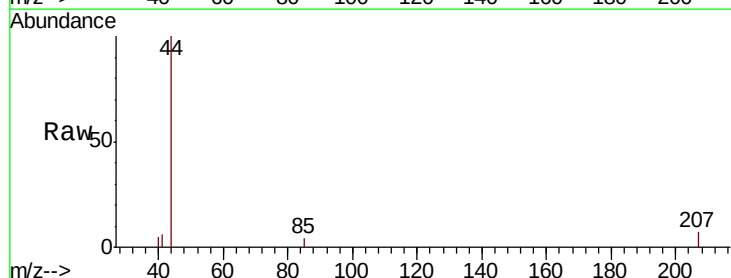
Acq: 17 Aug 2020 18:43

Tgt Ion: 85 Resp: 29

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

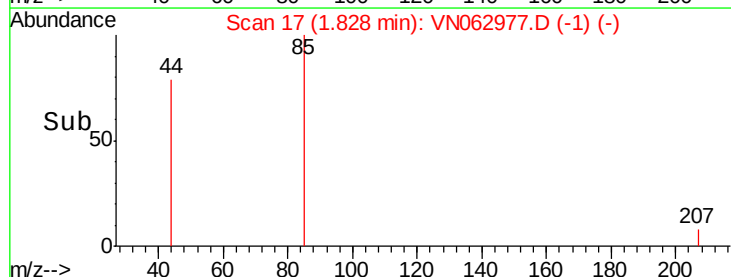
150

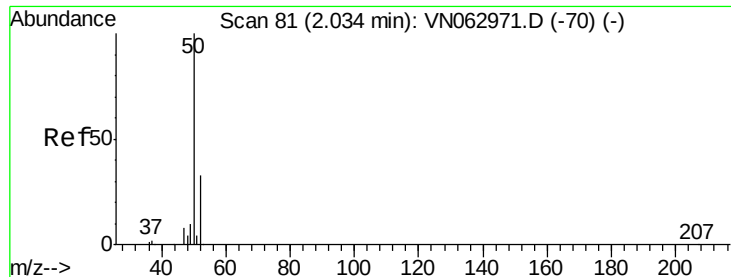
100

50

0

Time--> 1.82 1.83 1.84

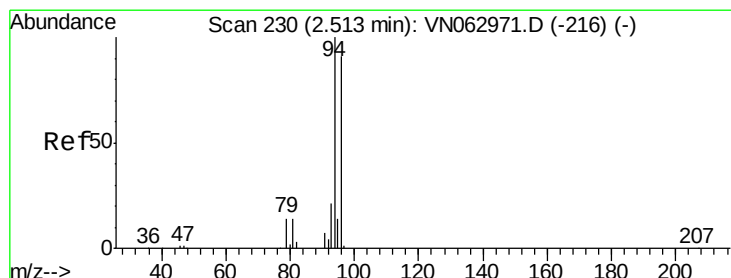
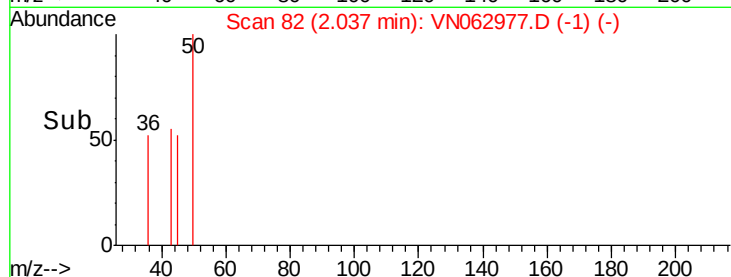
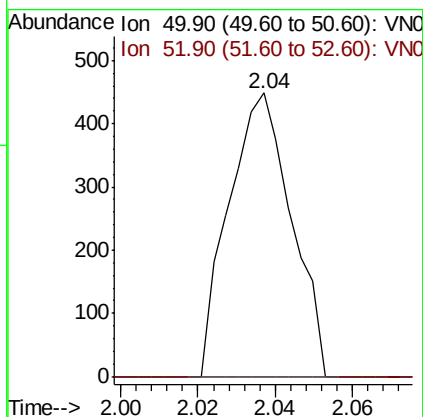
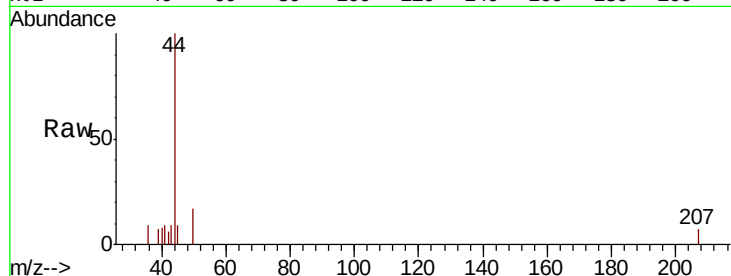




#3
Chloromethane
Concen: 0.213 ug/l
RT: 2.04 min Scan# 82
Delta R.T. 0.00 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

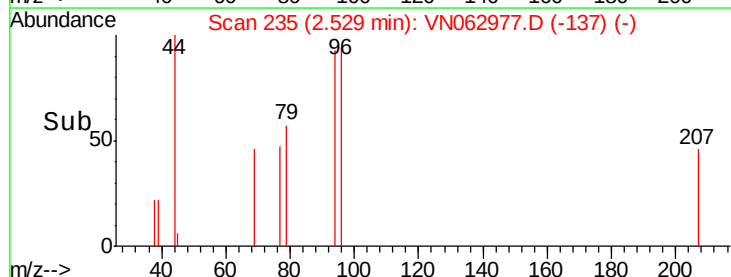
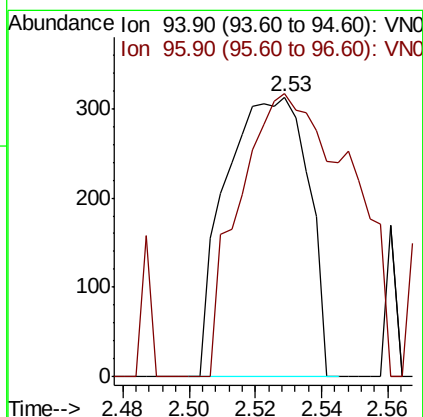
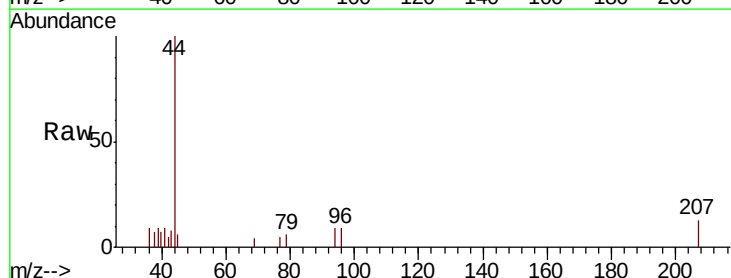
Instrument :
MSVOA_N
ClientSampleId :
VN0817WBL01

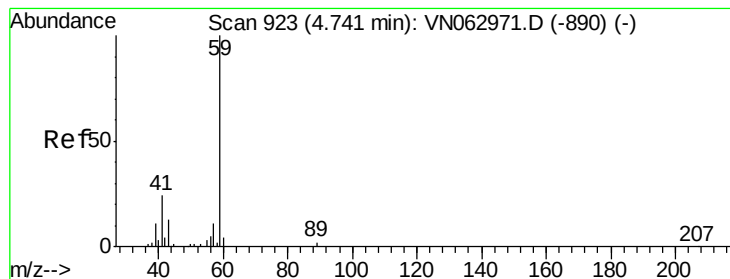
Tot Ion: 50 Resp: 504
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#



#5
Bromomethane
Concen: 0.254 ug/l
RT: 2.53 min Scan# 235
Delta R.T. 0.02 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

Tgt Ion: 94 Resp: 538
Ion Ratio Lower Upper
94 100
96 101.3 72.9 109.3





#11

Tert butyl alcohol

Concen: 7.101 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.04 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

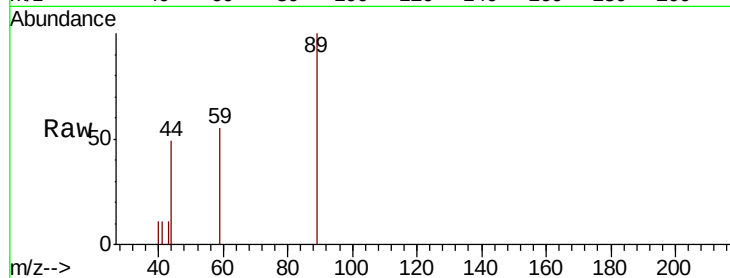
VN0817WBL01

Tot Ion: 59 Resp: 2822

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.70

800

600

400

200

0

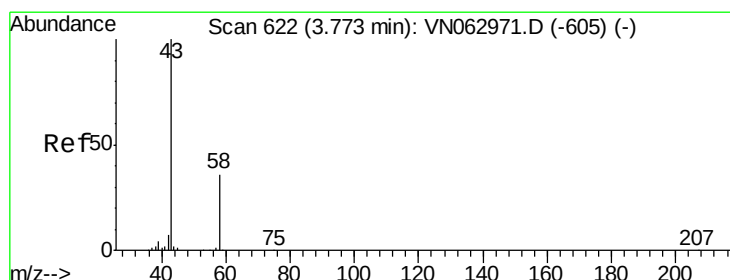
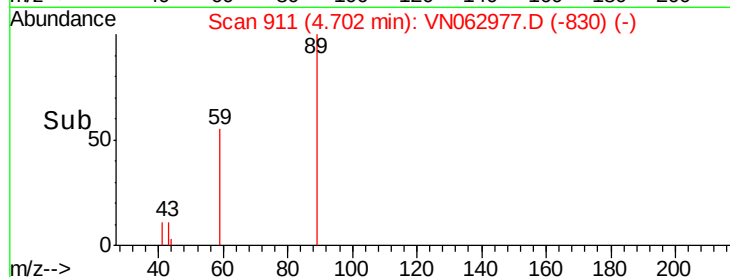
4.60

4.65

4.70

4.75

Time-->



#16

Acetone

Concen: 0.841 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.03 min

Lab File: VN062977.D

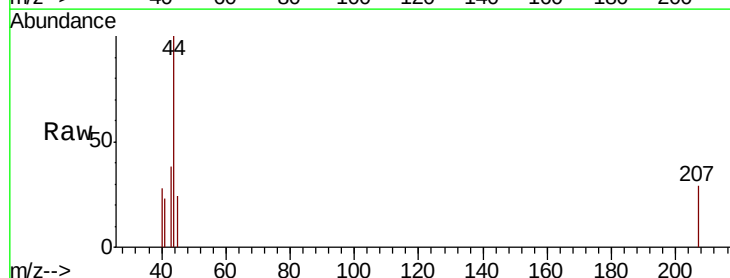
Acq: 17 Aug 2020 18:43

Tgt Ion: 43 Resp: 757

Ion Ratio Lower Upper

43 100

58 0.0 28.7 43.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

300

250

200

150

100

50

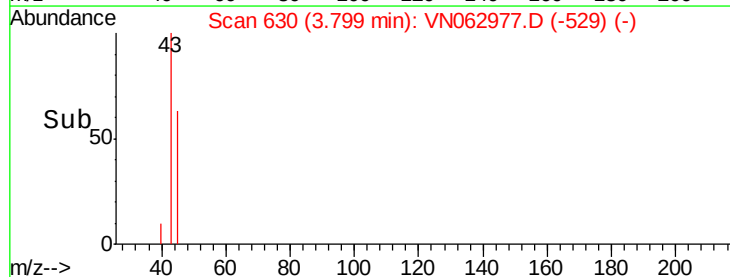
0

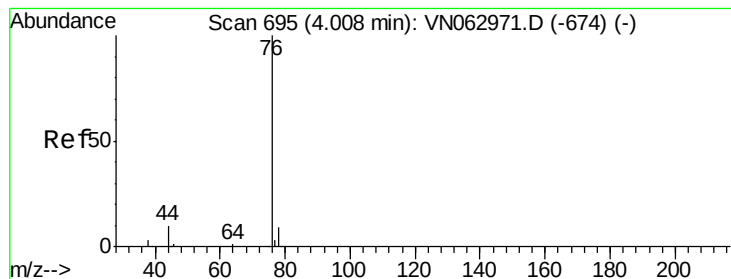
3.75

3.80

3.85

Time-->





#17

Carbon Disulfide

Concen: 0.276 ug/l

RT: 4.01 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

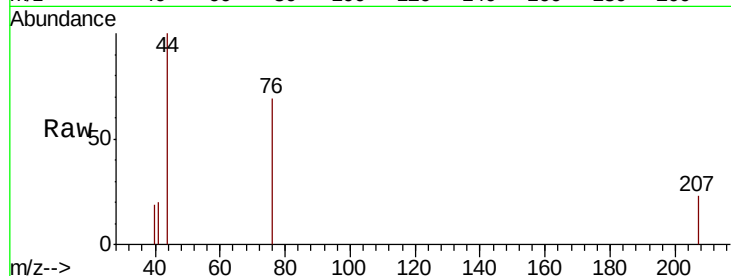
VN0817WBL01

Tot Ion: 76 Resp: 1492

Ion Ratio Lower Upper

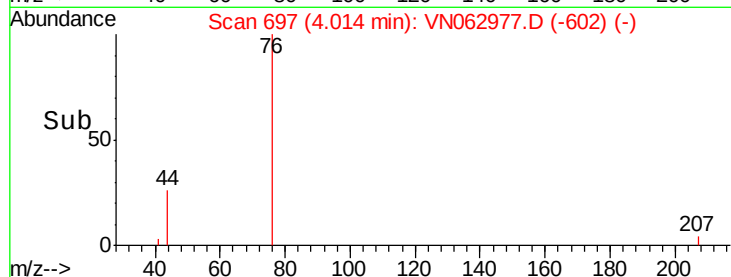
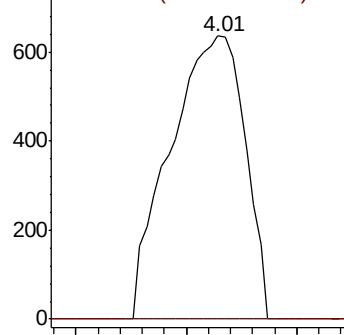
76 100

78 0.0 7.4 11.0#

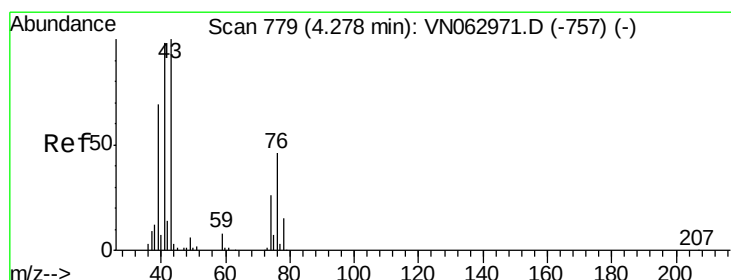


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN062977.D

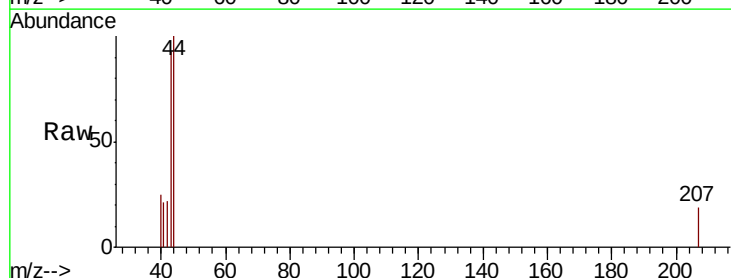
Acq: 17 Aug 2020 18:43

Tgt Ion: 43 Resp: 976

Ion Ratio Lower Upper

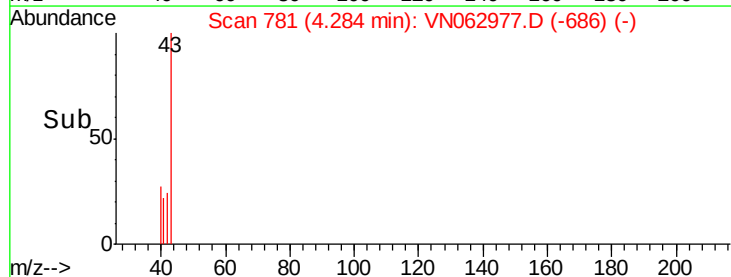
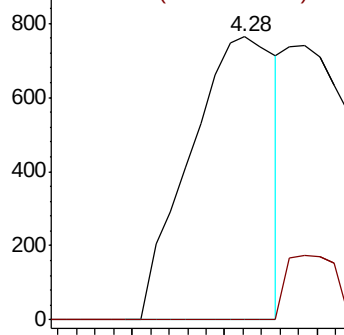
43 100

74 13.1 21.6 32.4#

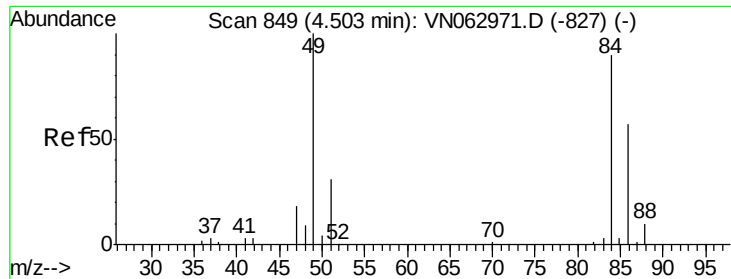


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



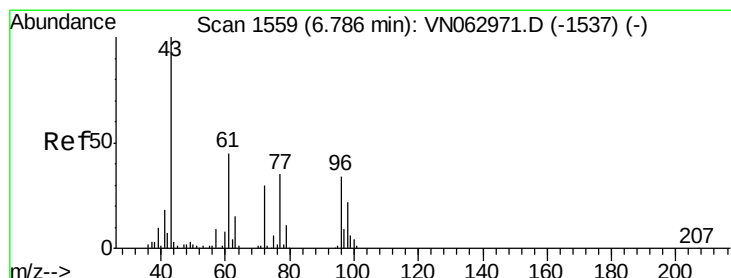
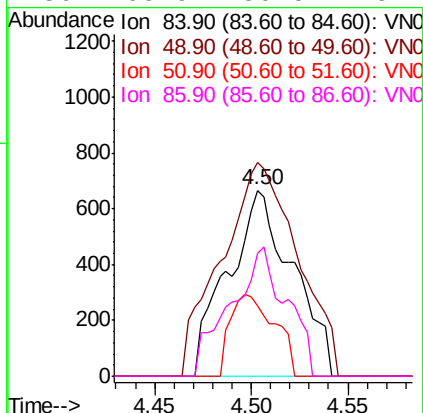
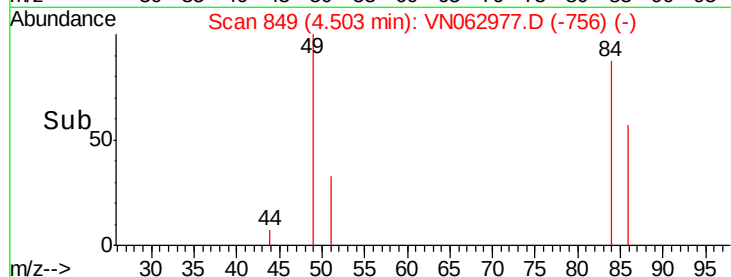
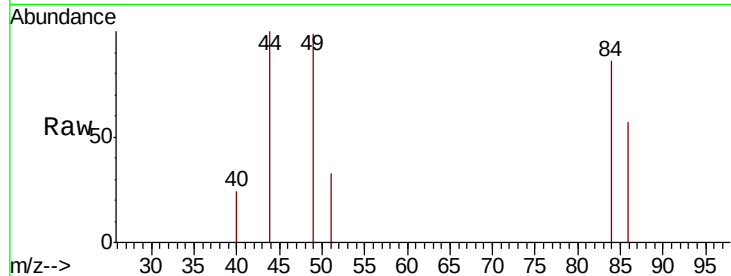
Time-->



#20
Methvlene Chloride
Concen: 1.317 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

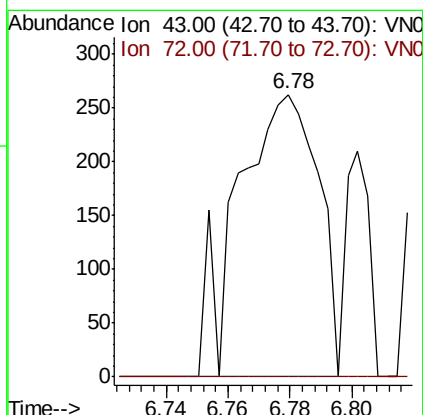
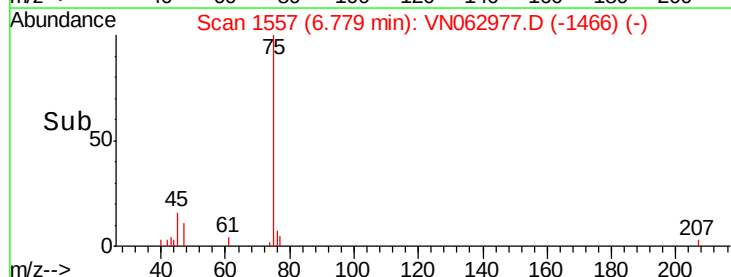
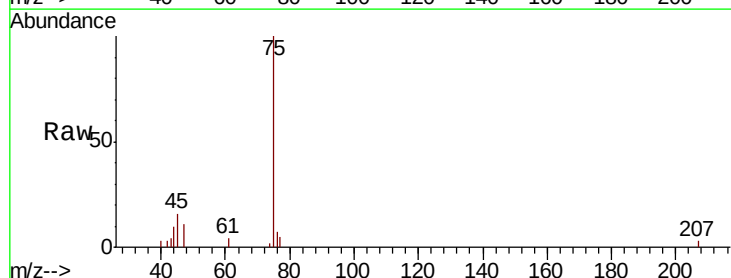
Instrument :
MSVOA_N
ClientSampleId :
VN0817WBL01

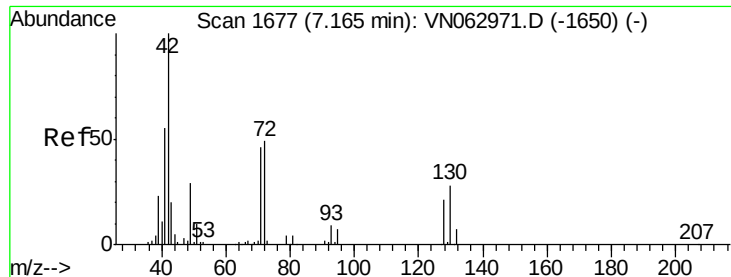
Tot Ion:	84	Resp:	1553
Ion	Ratio	Lower	Upper
84	100		
49	115.0	88.8	133.2
51	38.2	27.1	40.7
86	65.9	50.5	75.7



#25
2-Butanone
Concen: 0.364 ug/l
RT: 6.78 min Scan# 1557
Delta R.T. -0.01 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

Tgt Ion:	43	Resp:	473
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.9	35.9#

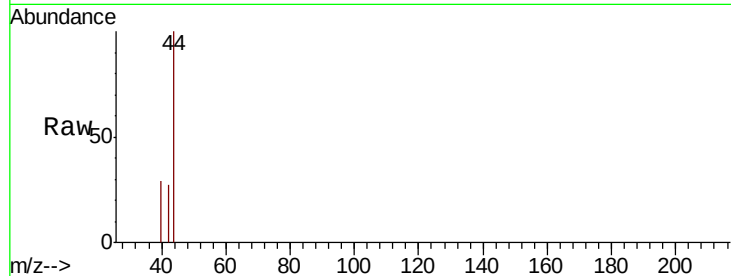




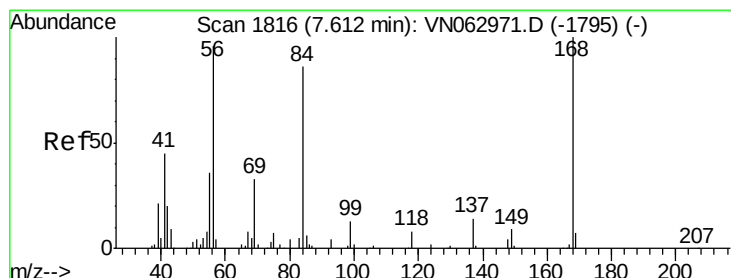
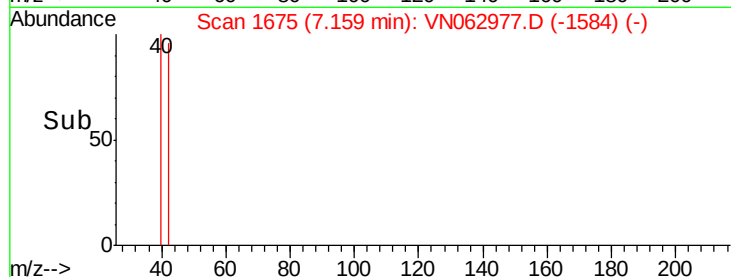
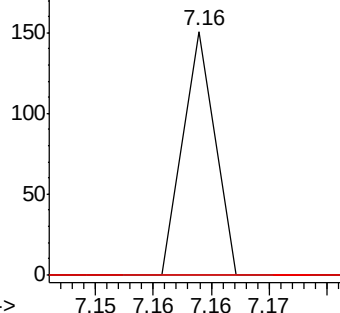
#29
Tetrahydrofuran
Concen: Below Cal
RT: 7.16 min Scan# 1675
Delta R.T. -0.01 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBL01

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.4	59.2#
71	0.0	37.2	55.8#

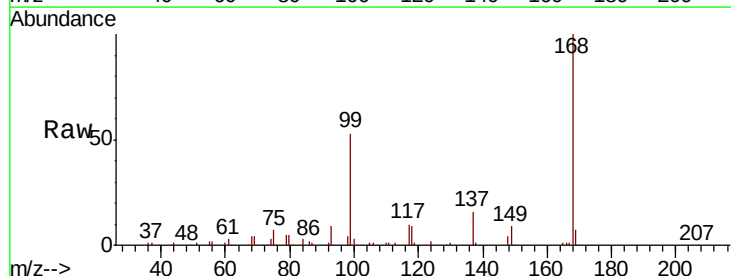


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

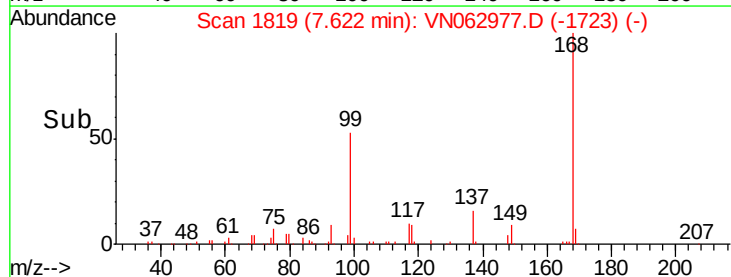
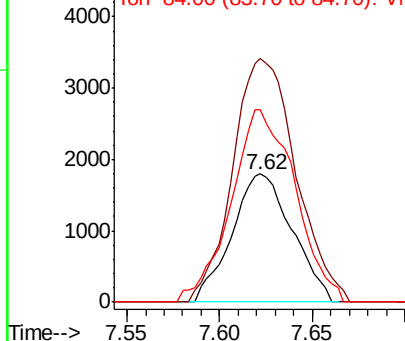


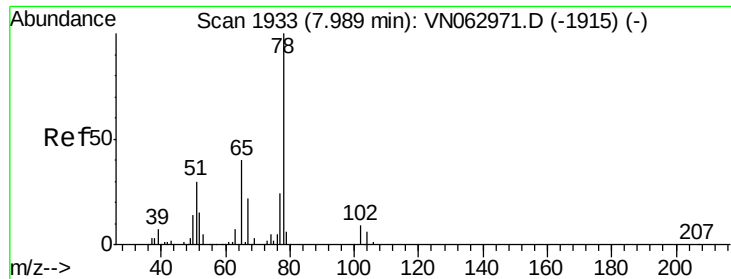
#31
Cyclohexane
Concen: 1.130 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

Tgt Ion	Ratio	Lower	Upper
56	100		
69	190.4	27.4	41.2#
84	141.2	71.3	106.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

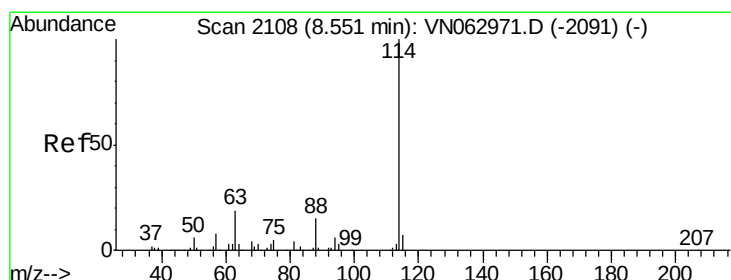
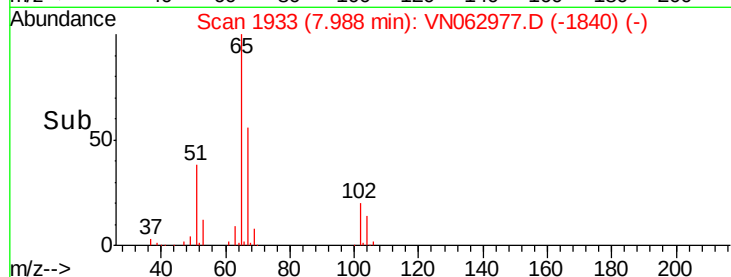
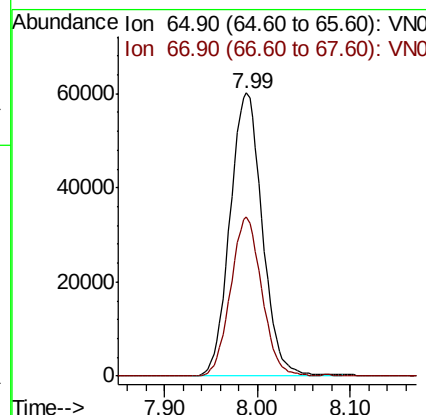
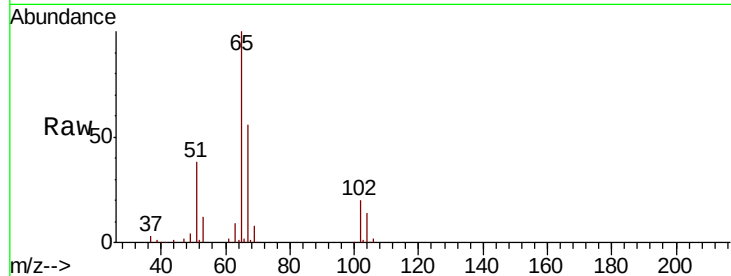




#33
 1,2-Dichloroethane-d4
 Concen: 62.547 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062977.D
 Acq: 17 Aug 2020 18:43

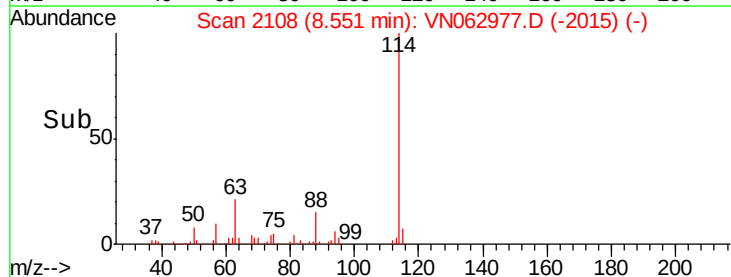
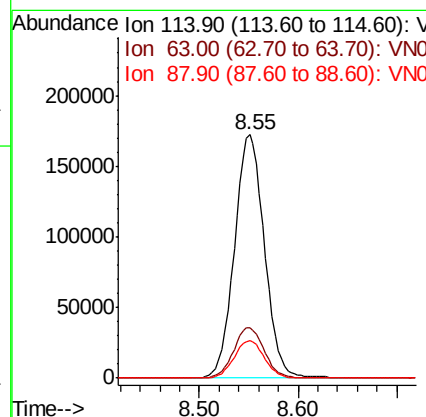
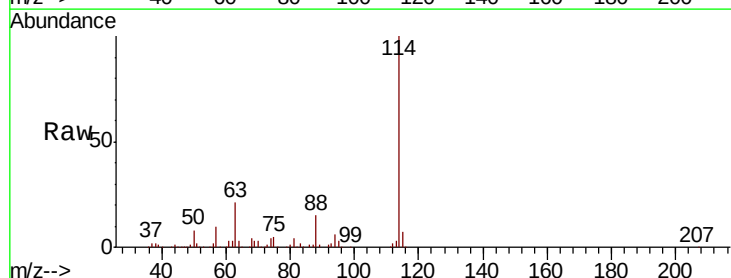
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBL01

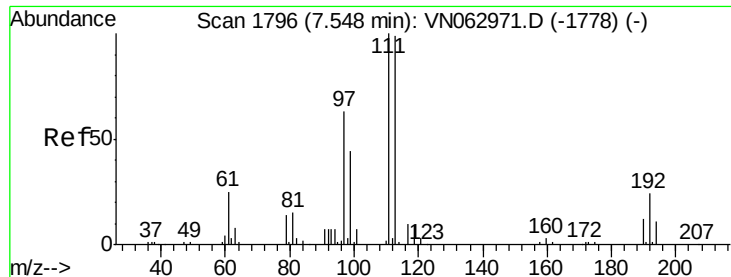
Tot Ion: 65 Resp: 145460
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062977.D
 Acq: 17 Aug 2020 18:43

Tgt Ion: 114 Resp: 363829
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 37.6
 88 15.4 0.0 31.0

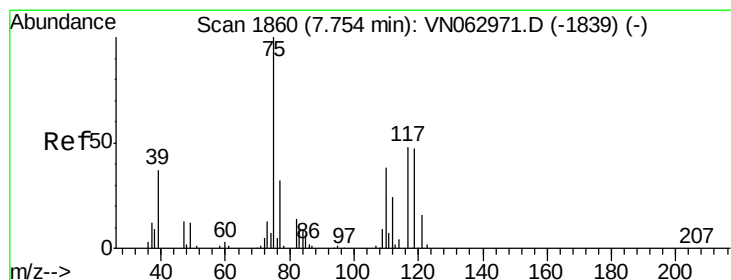
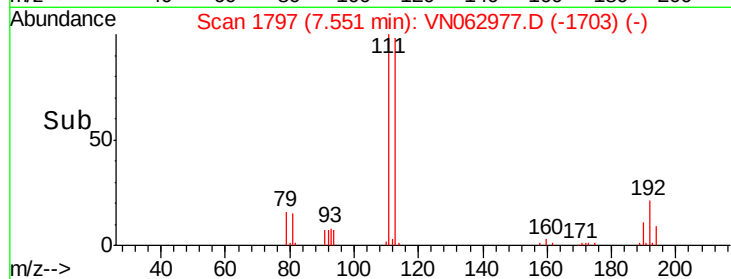
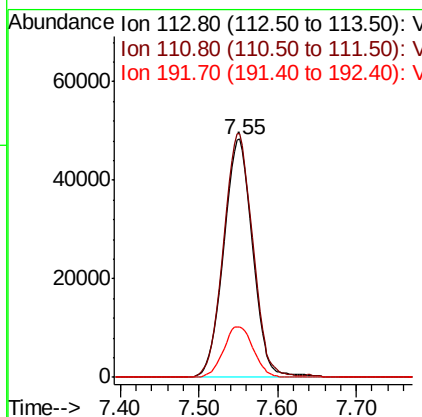
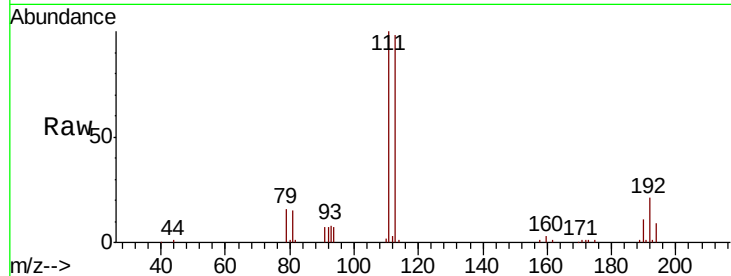




#35
 Dibromofluoromethane
 Concen: 51.932 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062977.D
 Acq: 17 Aug 2020 18:43

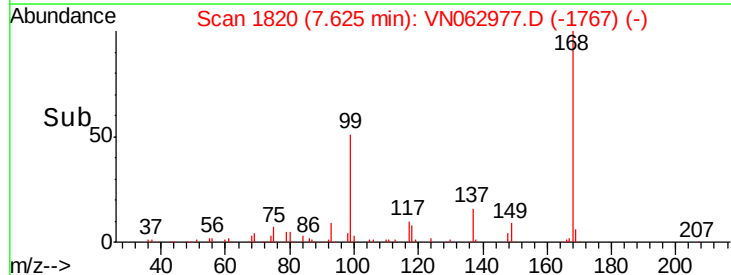
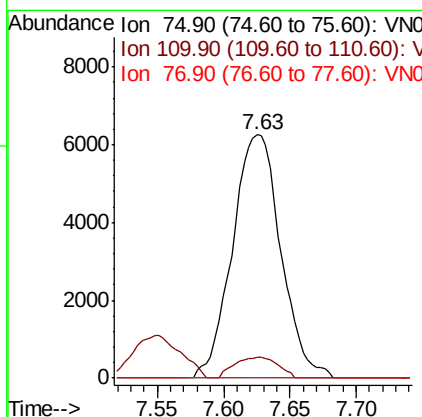
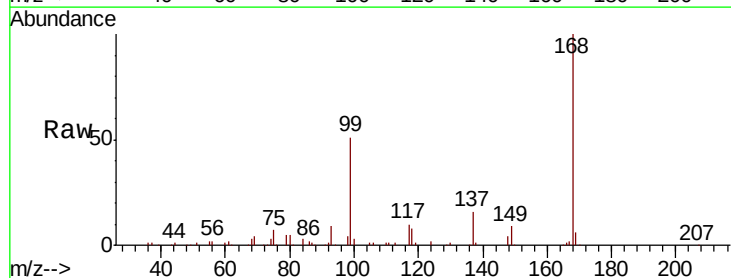
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBL01

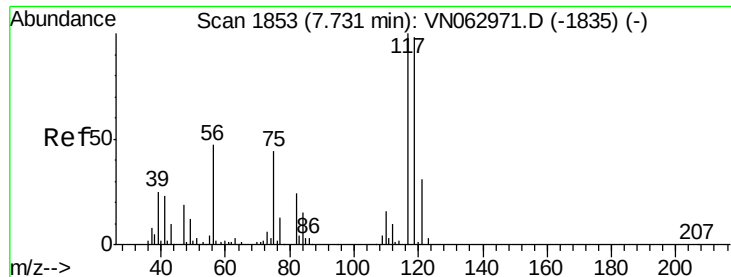
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.4	122.0
192	21.8	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.084 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062977.D
 Acq: 17 Aug 2020 18:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	18.7	56.1#
77	0.0	25.6	38.4#

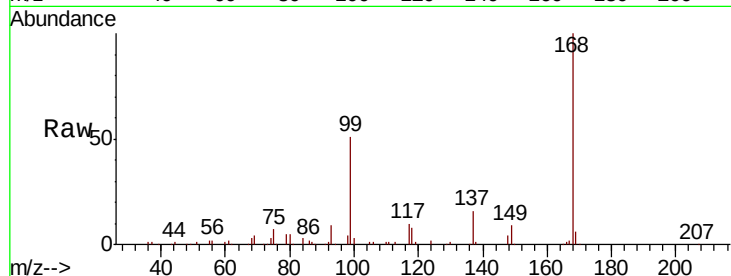




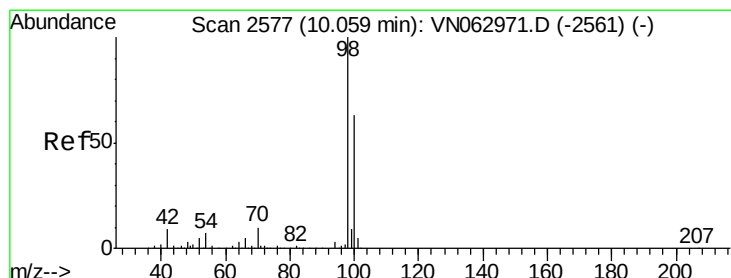
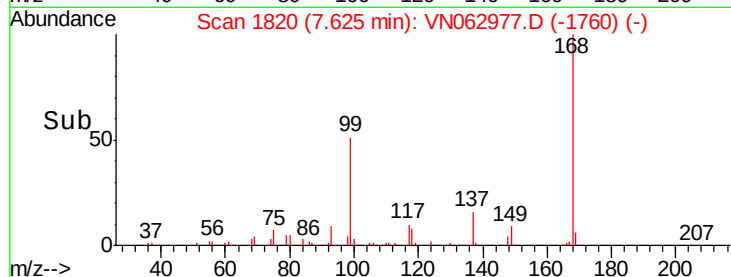
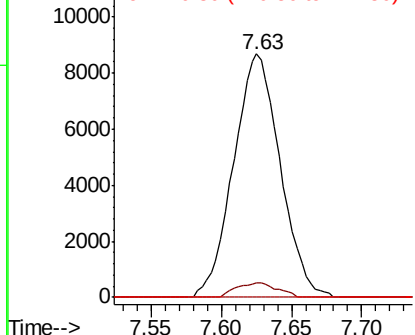
#38
Carbon Tetrachloride
Concen: 6.084 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBL01

Tot Ion:117 Resp: 20061
Ion Ratio Lower Upper
117 100
119 6.1 77.9 116.9#
121 0.0 24.8 37.2#

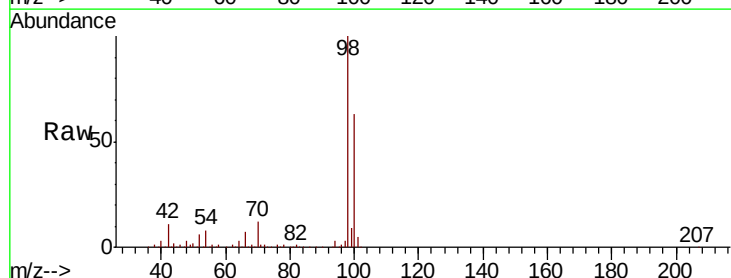


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

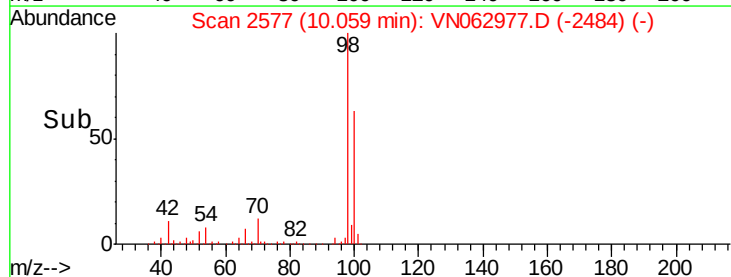
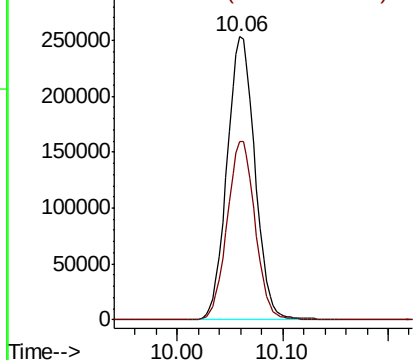


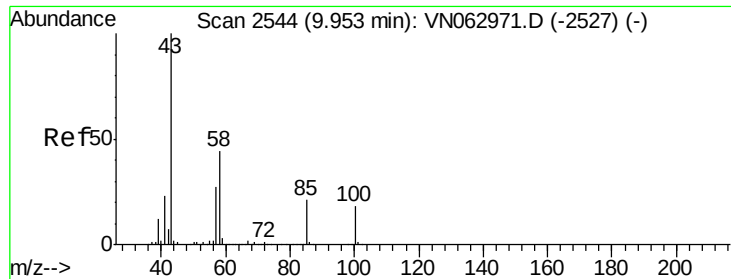
#50
Toluene-d8
Concen: 50.458 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

Tgt Ion: 98 Resp: 464051
Ion Ratio Lower Upper
98 100
100 63.0 51.0 76.4



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

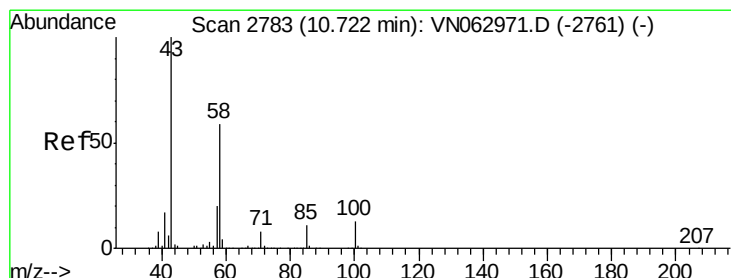
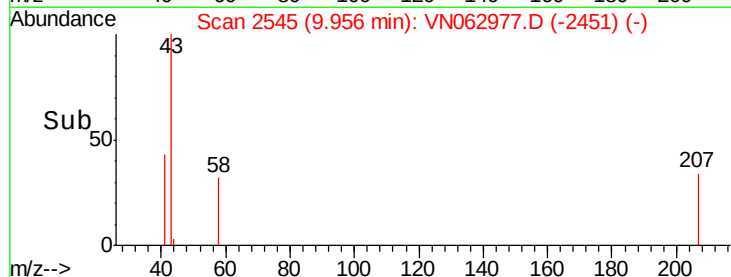
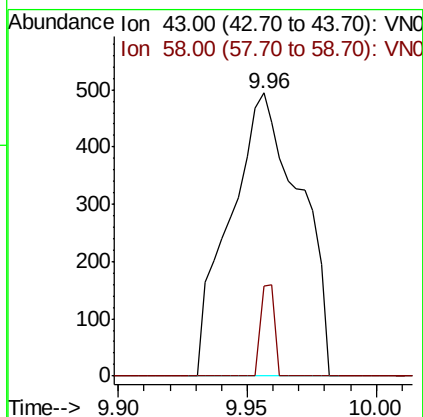
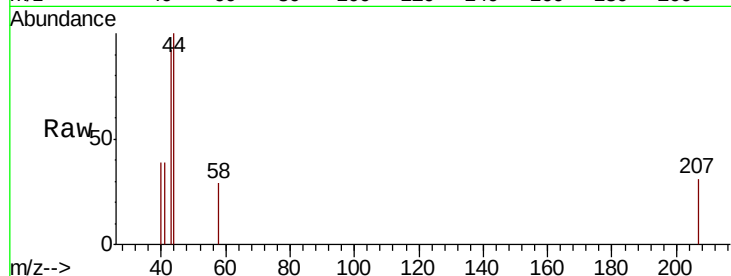




#51
4-Methyl-2-Pentanone
Concen: 0.308 ug/l
RT: 9.96 min Scan# 2545
Delta R.T. 0.00 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

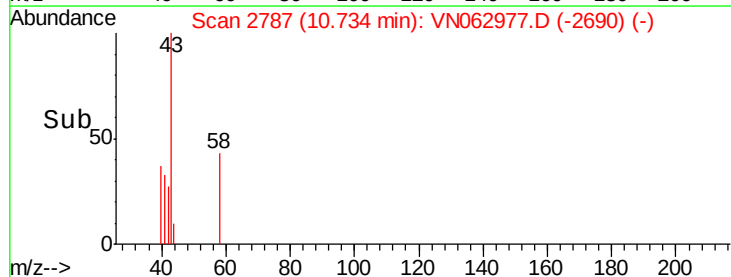
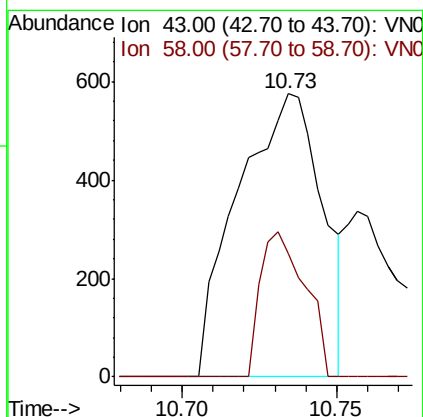
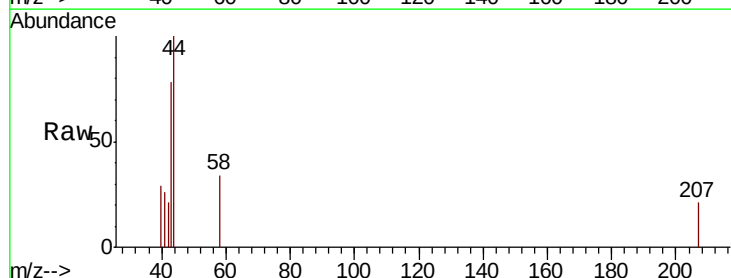
Instrument :
MSVOA_N
ClientSampled :
VN0817WBL01

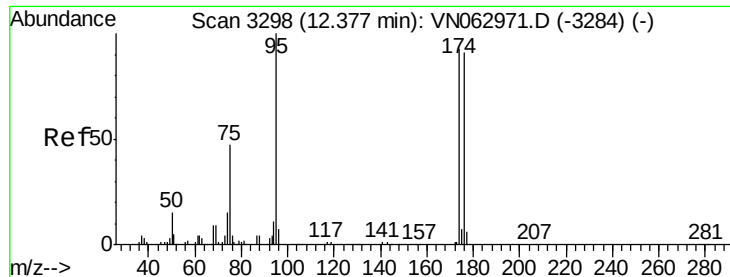
Tot Ion: 43 Resp: 935
Ion Ratio Lower Upper
43 100
58 0.0 34.3 51.5#



#59
2-Hexanone
Concen: Below Cal
RT: 10.73 min Scan# 2787
Delta R.T. 0.01 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

Tgt Ion: 43 Resp: 1092
Ion Ratio Lower Upper
43 100
58 27.2 29.5 88.5#





#62

4-Bromofluorobenzene

Concen: 49.069 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBL01

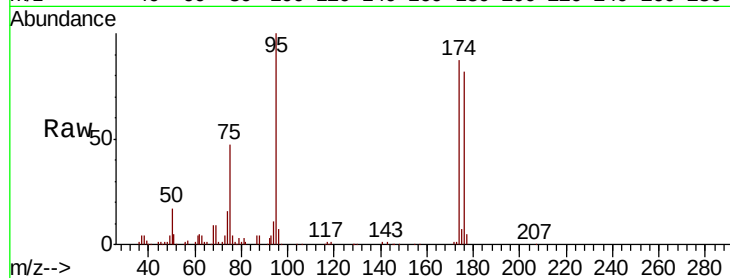
Tot Ion: 95 Resp: 162158

Ion Ratio Lower Upper

95 100

174 87.2 0.0 185.2

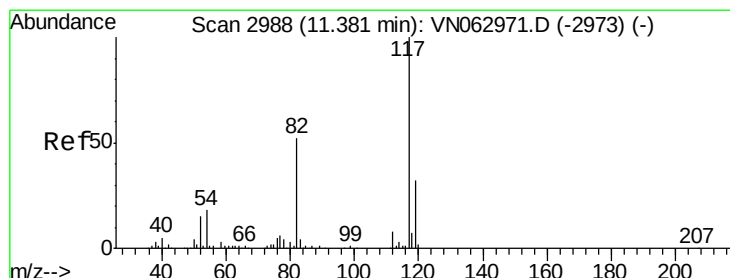
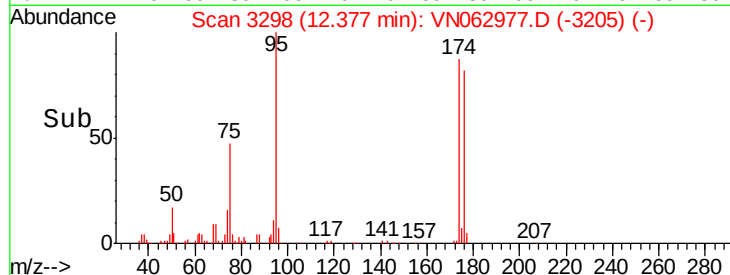
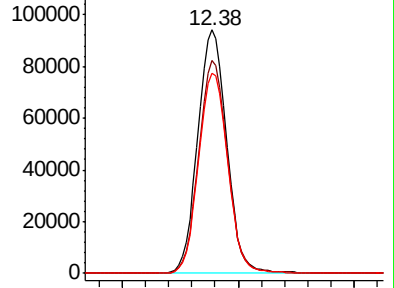
176 82.9 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN062977.D (-2895) (-)

Ion 173.80 (173.50 to 174.50): VN062977.D (-2895) (-)

Ion 175.80 (175.50 to 176.50): VN062977.D (-2895) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

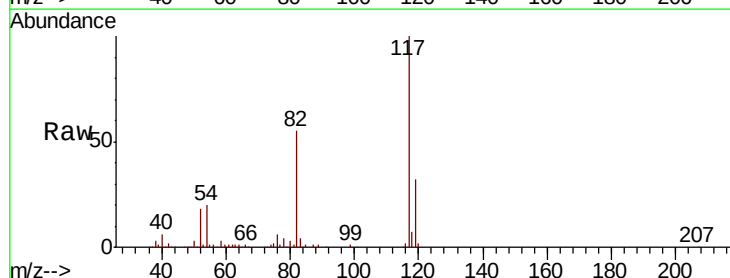
Tgt Ion: 117 Resp: 376889

Ion Ratio Lower Upper

117 100

82 55.4 41.3 61.9

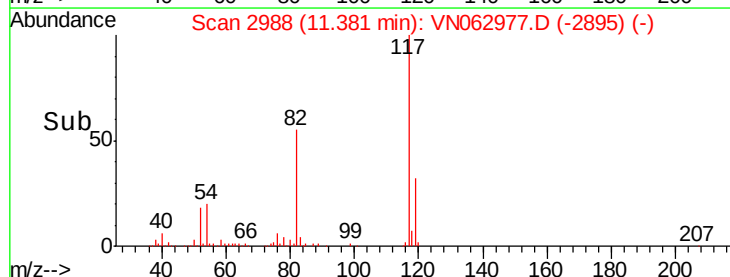
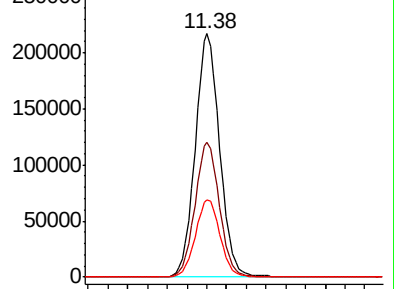
119 31.8 25.8 38.8

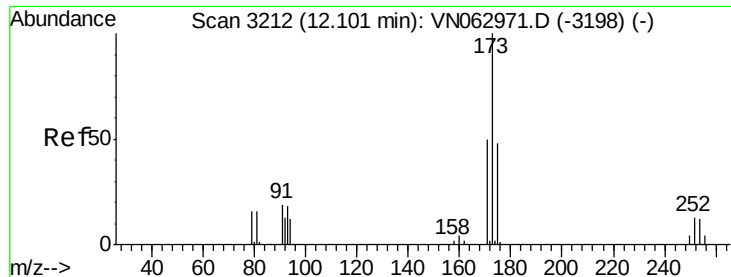


Abundance Ion 116.90 (116.60 to 117.60): VN062977.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062977.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062977.D (-2895) (-)





#71

Bromoform

Concen: 0.565 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBL01

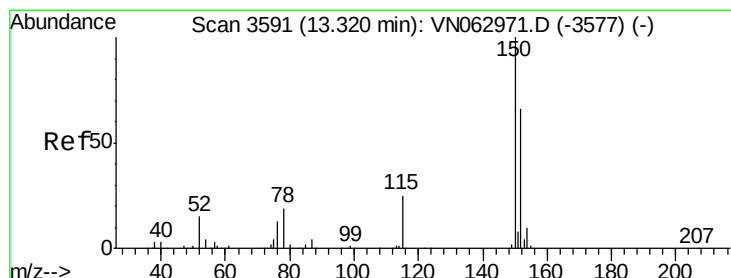
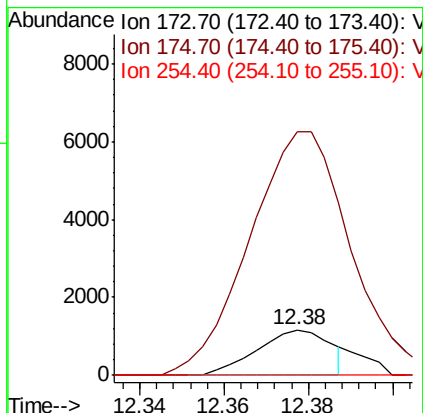
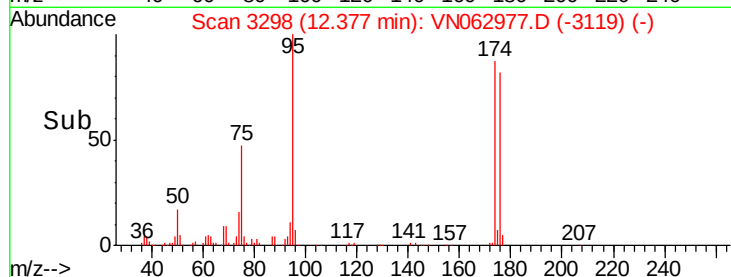
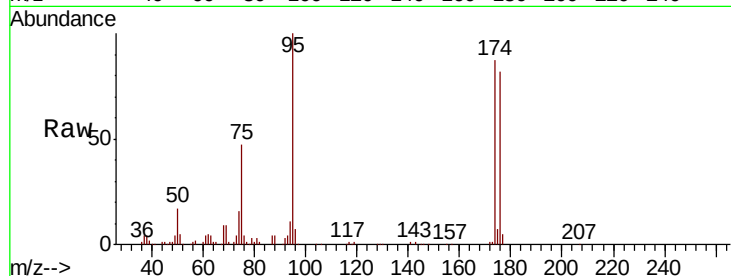
Tot Ion:173 Resp: 1416

Ion Ratio Lower Upper

173 100

175 613.4 24.1 72.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

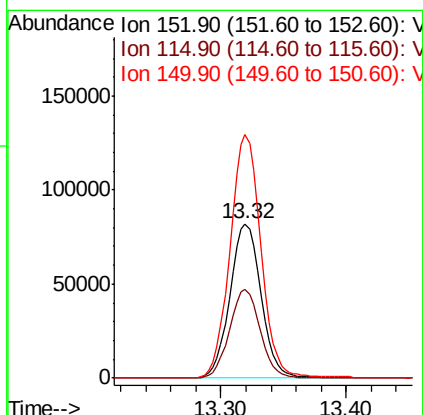
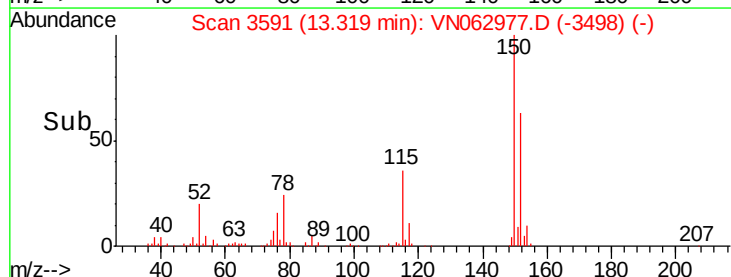
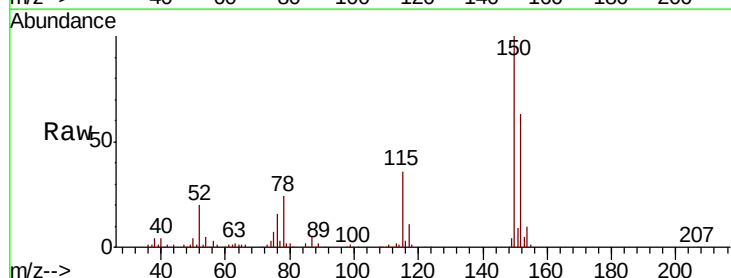
Tgt Ion:152 Resp: 141931

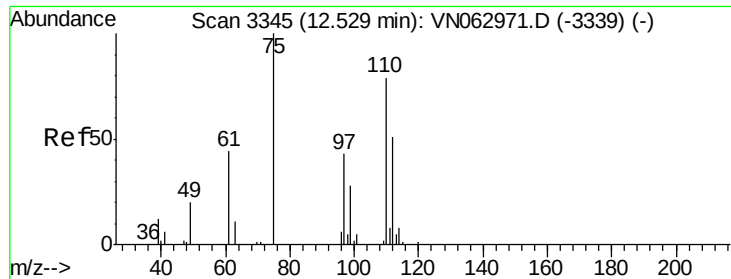
Ion Ratio Lower Upper

152 100

115 56.7 27.1 81.3

150 155.5 0.0 341.4





#76

1,2,3-Trichloropropane

Concen: 27.317 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

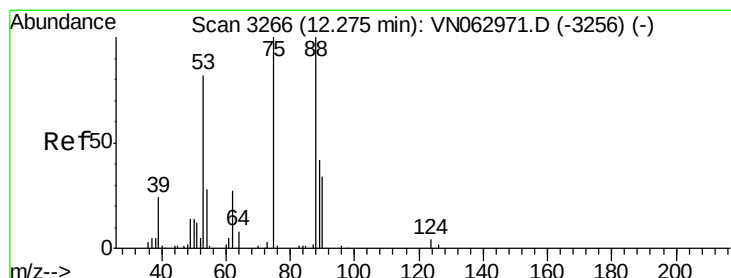
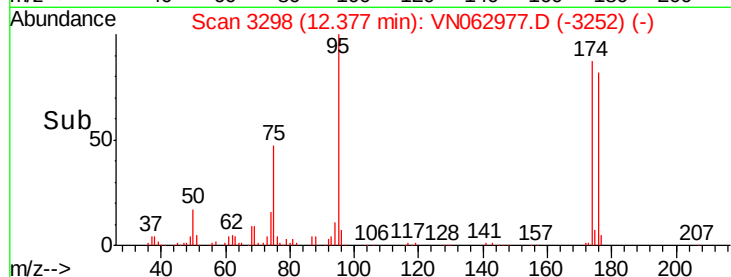
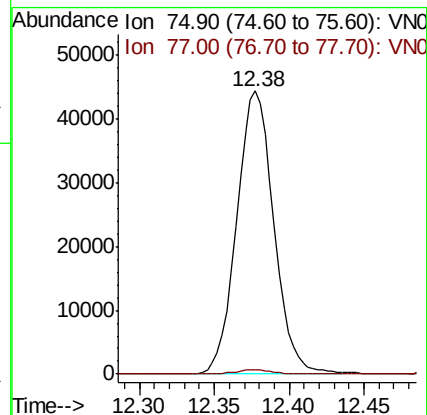
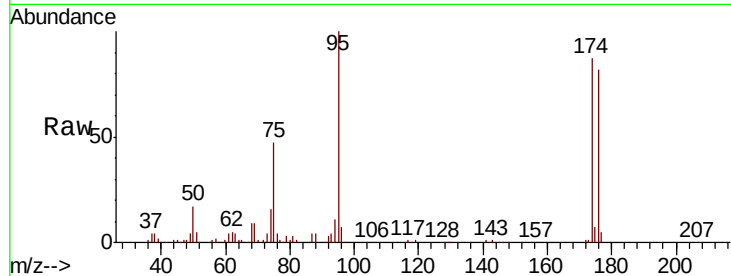
VN0817WBL01

Tot Ion: 75 Resp: 76611

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.187 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

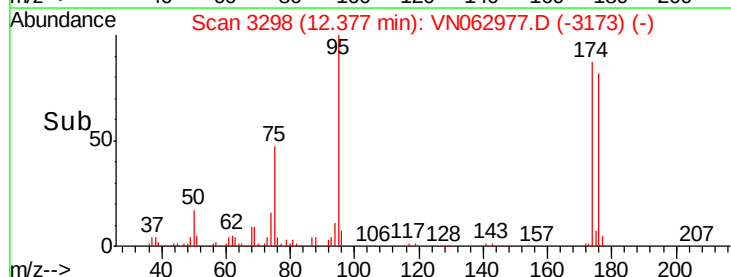
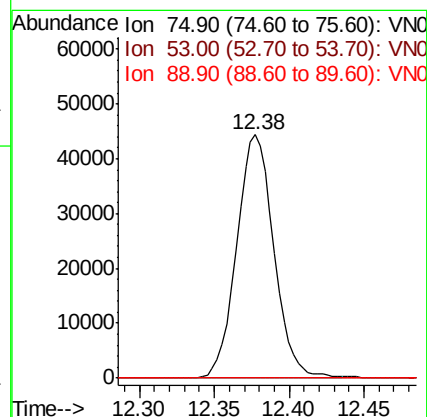
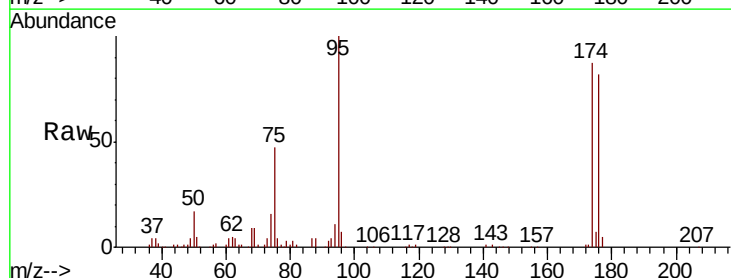
Tgt Ion: 75 Resp: 76611

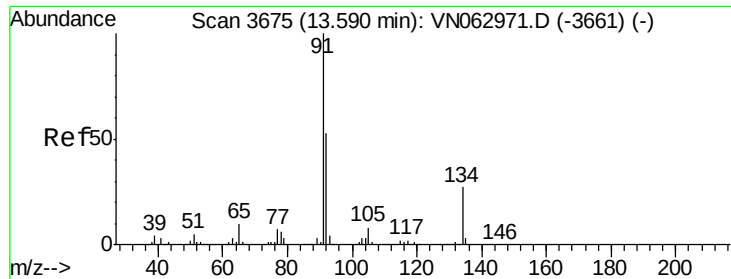
Ion Ratio Lower Upper

75 100

53 0.0 66.2 99.2#

89 0.0 35.0 52.4#

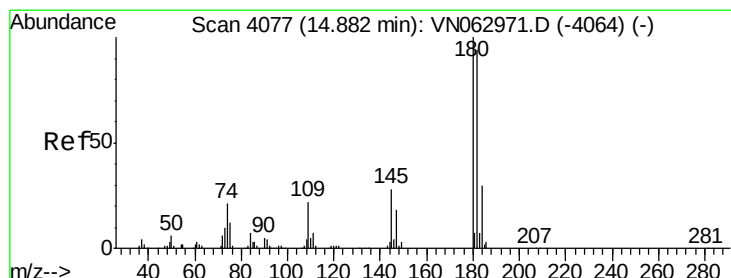
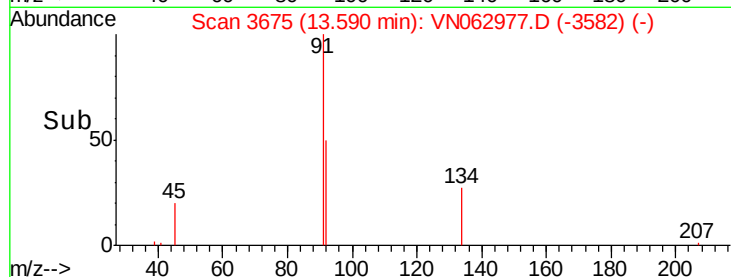
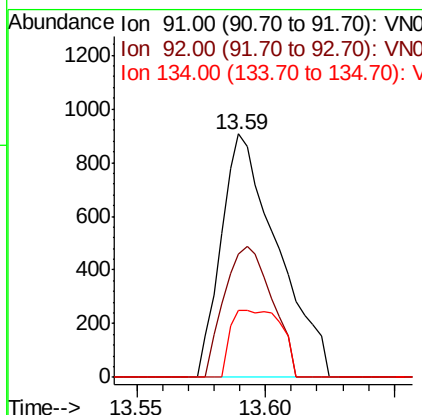
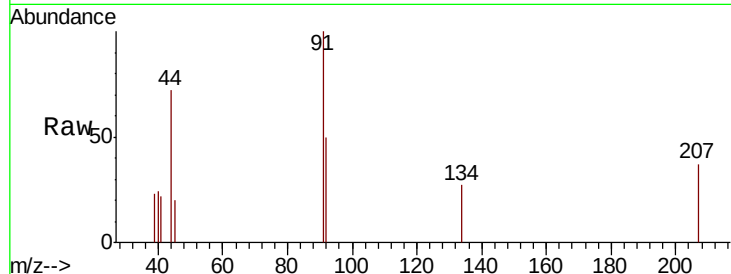




#89
n-Butylbenzene
Concen: 0.204 ug/l
RT: 13.59 min Scan# 3675
Delta R.T. -0.00 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

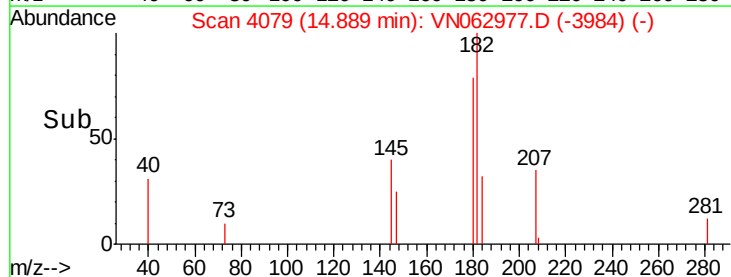
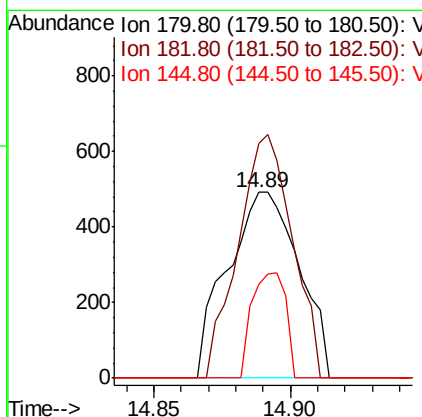
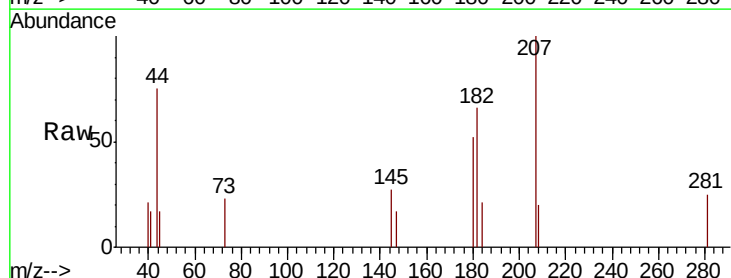
Instrument :
MSVOA_N
ClientSampleId :
VN0817WBL01

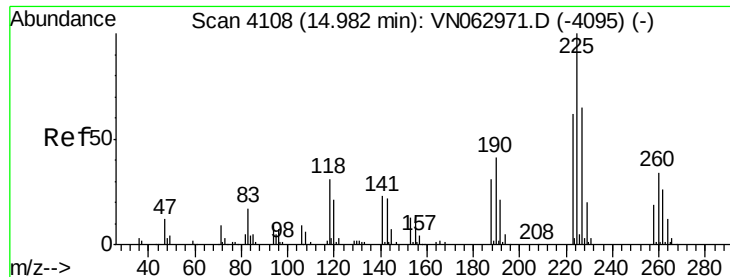
Tot Ion: 91 Resp: 1379
Ion Ratio Lower Upper
91 100
92 45.7 26.3 78.8
134 24.9 13.4 40.2



#93
1,2,4-Trichlorobenzene
Concen: 4.604 ug/l
RT: 14.89 min Scan# 4079
Delta R.T. 0.01 min
Lab File: VN062977.D
Acq: 17 Aug 2020 18:43

Tgt Ion: 180 Resp: 896
Ion Ratio Lower Upper
180 100
182 98.9 47.8 143.3
145 26.1 13.9 41.7





#94

Hexachlorobutadiene

Concen: 0.224 ug/l

RT: 14.99 min Scan# 4111

Delta R.T. 0.01 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBL01

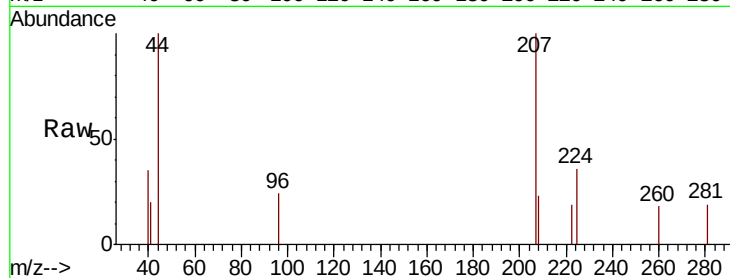
Tot Ion:225 Resp: 389

Ion Ratio Lower Upper

225 100

223 37.0 30.9 92.5

227 0.0 32.0 96.0#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

14.99

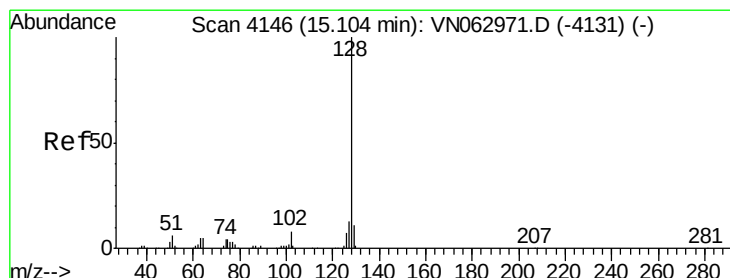
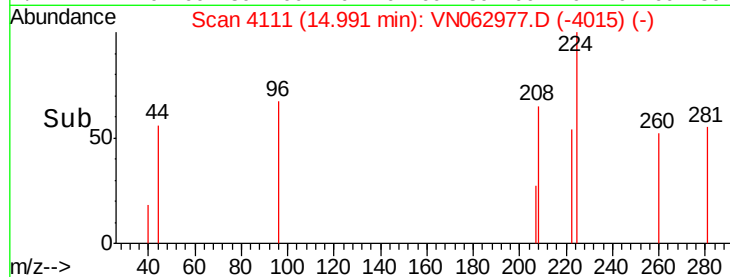
300

200

100

0

Time-->



#95

Naphthalene

Concen: 0.379 ug/l

RT: 15.11 min Scan# 4149

Delta R.T. 0.01 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

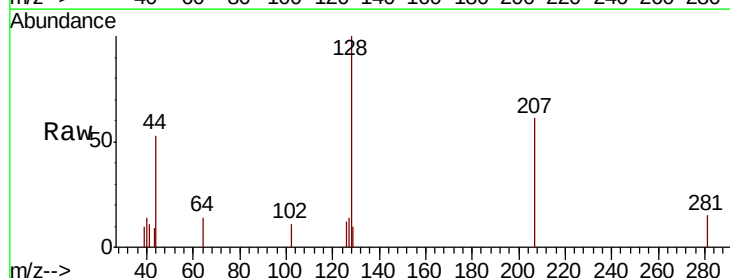
Tgt Ion:128 Resp: 3685

Ion Ratio Lower Upper

128 100

127 9.5 10.6 15.8#

129 6.9 8.6 12.8#



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

15.11

2000

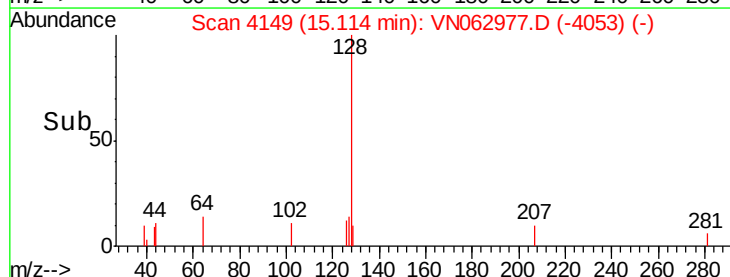
1500

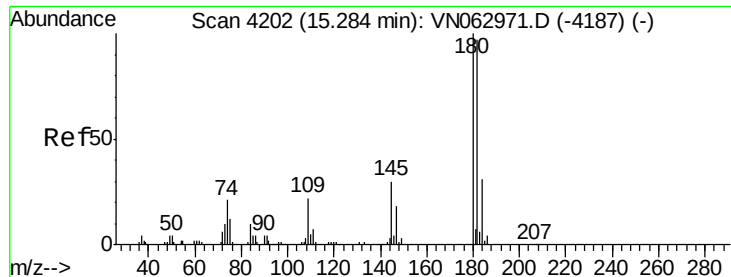
1000

500

0

Time-->





#96

1,2,3-Trichlorobenzene

Concen: 4.200 ug/l

RT: 15.29 min Scan# 4204

Delta R.T. 0.01 min

Lab File: VN062977.D

Acq: 17 Aug 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBL01

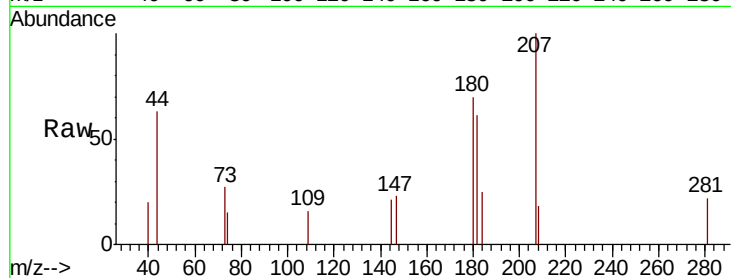
Tot Ion:180 Resp: 1296

Ion Ratio Lower Upper

180 100

182 101.5 49.3 147.8

145 25.5 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

