

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061220\
 Data File : VN061787.D
 Acq On : 12 Jun 2020 13:40
 Operator : JC/MD
 Sample : L2988-10DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D2-20200608DL

Quant Time: Jun 13 05:11:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	301233	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	505890	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	511475	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	222537	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	166150	46.29	ug/l	0.00
Spiked Amount			Recovery	=	92.58%	
35) Dibromofluoromethane	7.54	113	143365	55.86	ug/l	0.00
Spiked Amount			Recovery	=	111.72%	
50) Toluene-d8	10.06	98	615745	51.78	ug/l	0.00
Spiked Amount			Recovery	=	103.56%	
62) 4-Bromofluorobenzene	12.38	95	215682	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	

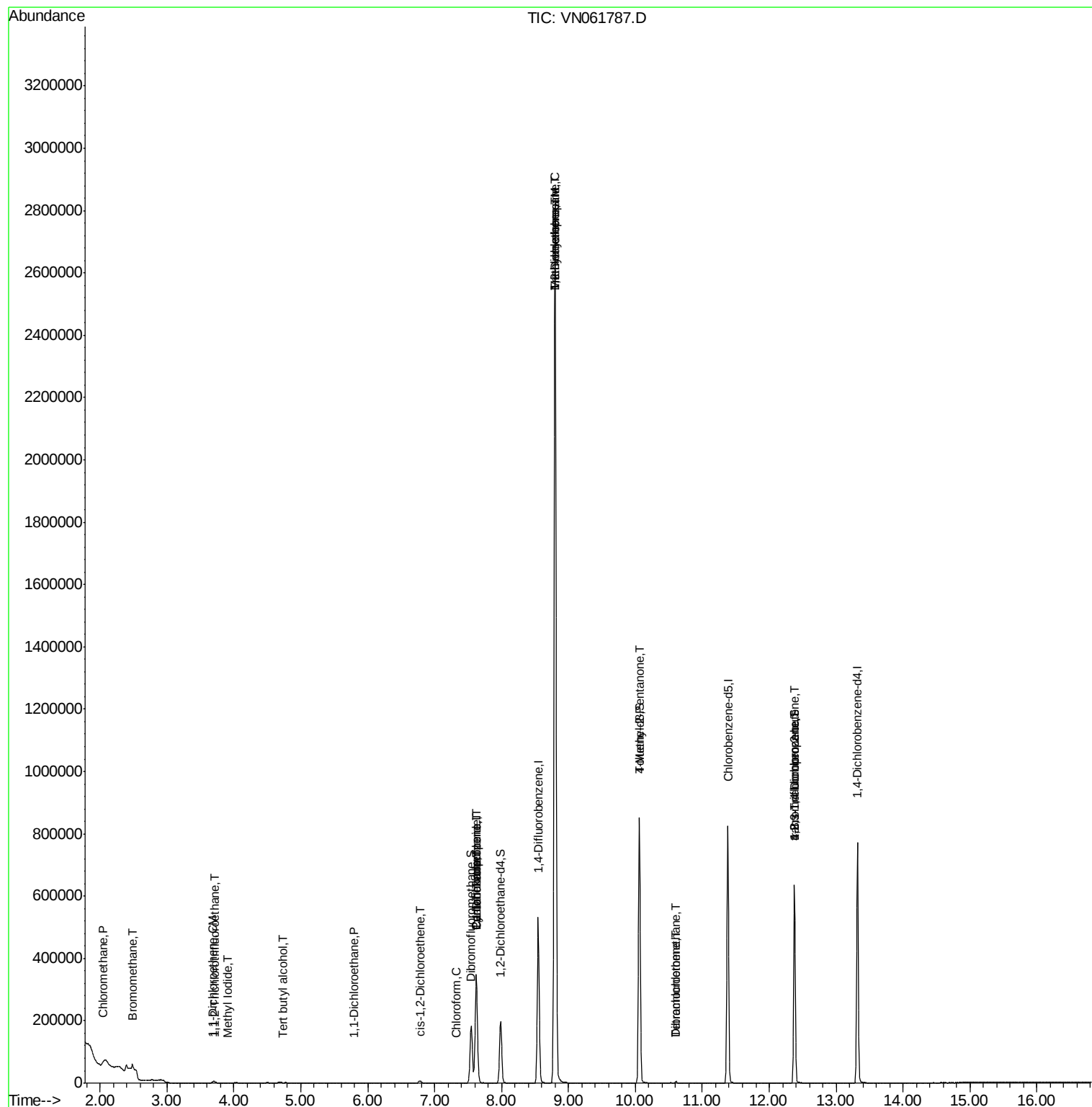
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	976	0.266	ug/l #	41
5) Bromomethane	2.50	94	1138	0.394	ug/l #	80
9) 1,1,2-Trichlorotrifluoroet	3.71	101	2488	0.864	ug/l #	30
10) Methyl Iodide	3.92	142	1273	0.318	ug/l #	48
11) Tert butyl alcohol	4.74	59	175	0.367	ug/l #	72
12) 1,1-Dichloroethene	3.68	96	766	0.249	ug/l #	92
16) Acetone	3.78	43	1303	Below Cal	#	75
20) Methylene Chloride	4.51	84	1328	Below Cal	#	83
24) 1,1-Dichloroethane	5.80	63	1917	0.341	ug/l #	81
27) cis-1,2-Dichloroethene	6.78	96	2273	0.578	ug/l	91
30) Chloroform	7.33	83	1323	0.213	ug/l	88
31) Cyclohexane	7.62	56	5158	1.020	ug/l #	9
36) 1,1-Dichloropropene	7.63	75	19953	4.455	ug/l #	47
38) Carbon Tetrachloride	7.62	117	28649	6.632	ug/l #	17
39) Methylcyclohexane	8.80	83	12552	2.274	ug/l #	1
44) Trichloroethene	8.80	130	1100553	259.160	ug/l	96
45) 1,2-Dichloropropane	8.80	63	2126	0.648	ug/l #	1
51) 4-Methyl-2-Pentanone	10.06	43	2058	0.563	ug/l #	1
60) Dibromochloromethane	10.60	129	958	0.235	ug/l #	11
64) Tetrachloroethene	10.60	164	1204	0.250	ug/l	88
76) 1,2,3-Trichloropropane	12.38	75	103822	25.657	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	103822	65.611	ug/l #	15

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

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QLast Update : Fri May 29 02:14:10 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

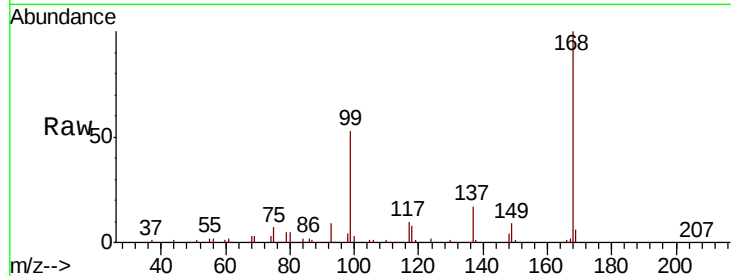
RE108D2-20200608DL

Tot Ion:168 Resp: 301233

Ion Ratio Lower Upper

168 100

99 52.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

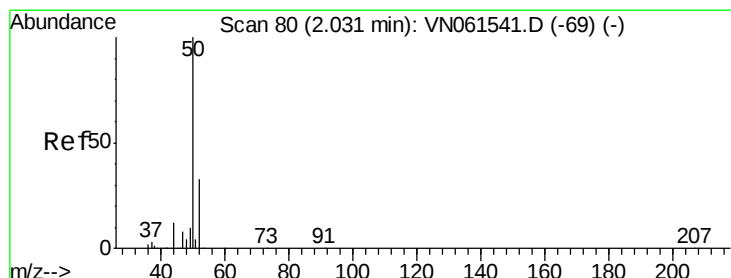
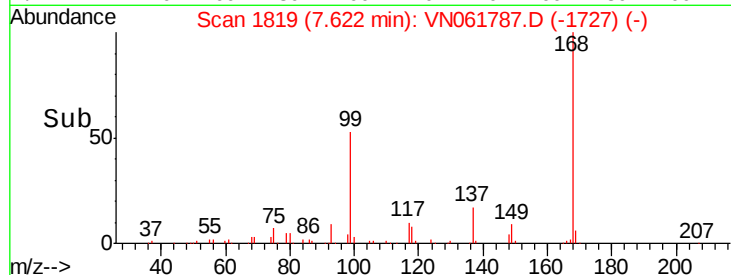
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.266 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.01 min

Lab File: VN061787.D

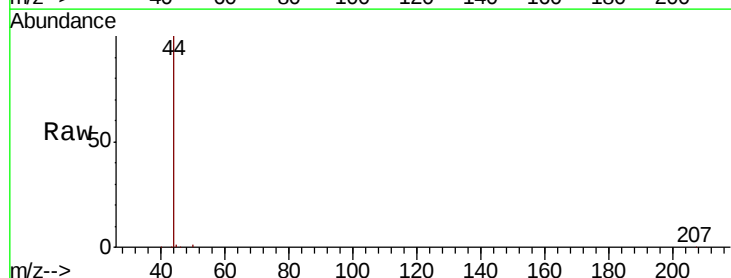
Acq: 12 Jun 2020 13:40

Tgt Ion: 50 Resp: 976

Ion Ratio Lower Upper

50 100

52 0.0 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

600

500

400

300

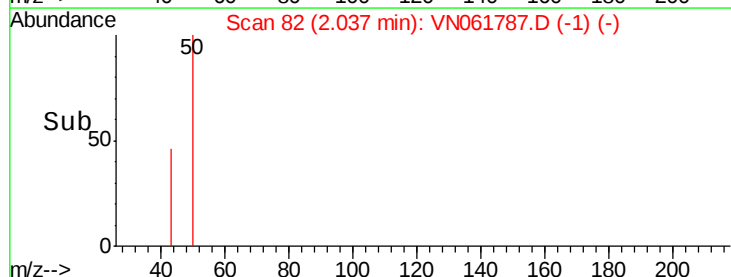
200

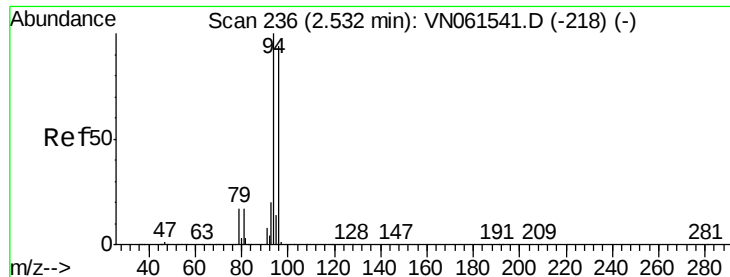
100

0

2.00 2.02 2.04 2.06

Time-->





#5

Bromomethane

Concen: 0.394 ug/l

RT: 2.50 min Scan# 225

Delta R.T. -0.04 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

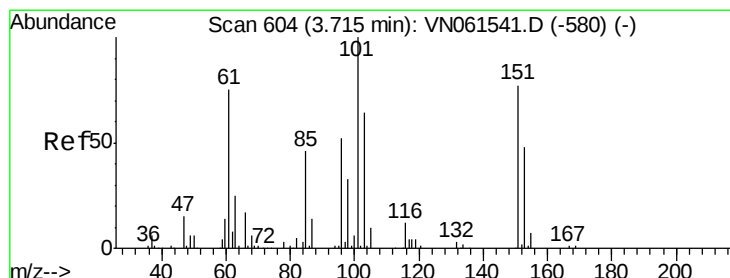
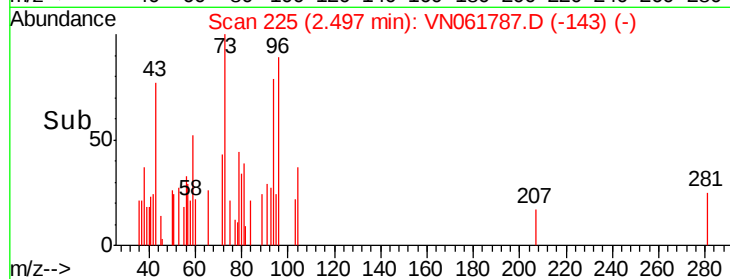
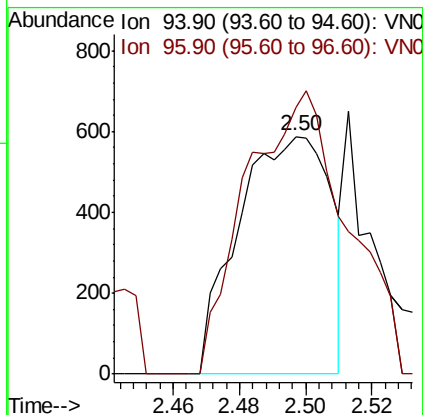
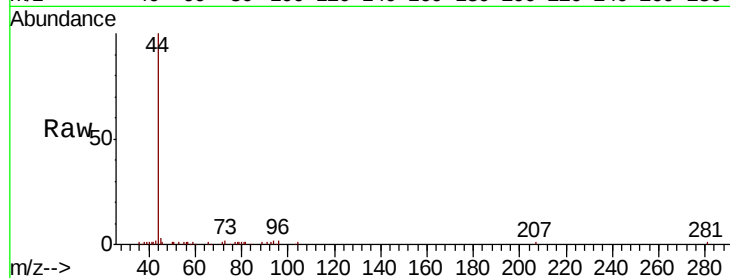
RE108D2-20200608DL

Tot Ion: 94 Resp: 1138

Ion Ratio Lower Upper

94 100

96 112.4 74.8 112.2#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.864 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

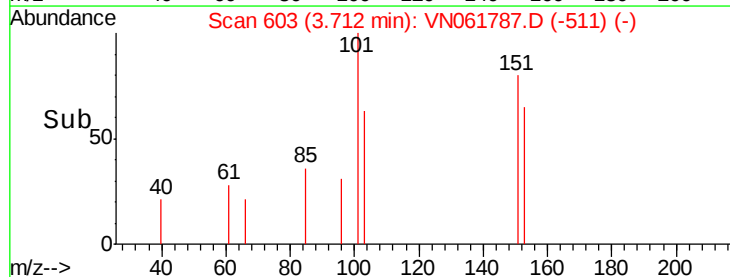
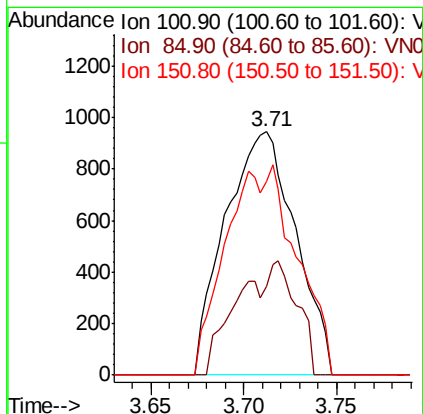
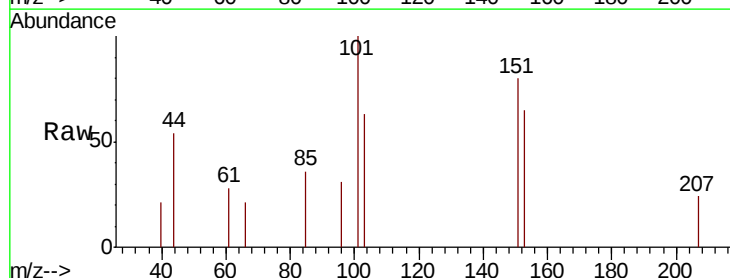
Tgt Ion: 101 Resp: 2488

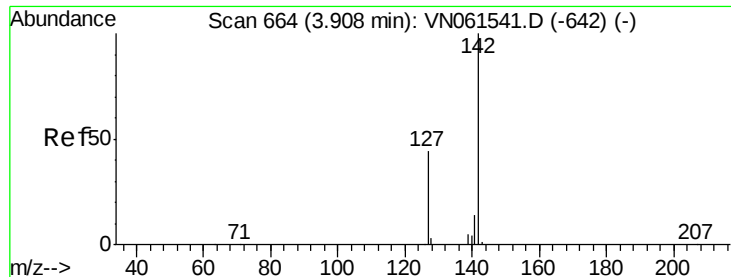
Ion Ratio Lower Upper

101 100

85 20.5 35.2 52.8#

151 0.0 61.0 91.6#

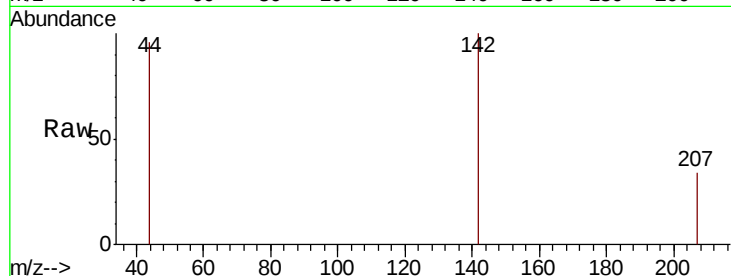




#10
Methvl Iodide
Concen: 0.318 ug/l
RT: 3.92 min Scan# 667
Delta R.T. 0.01 min
Lab File: VN061787.D
Acq: 12 Jun 2020 13:40

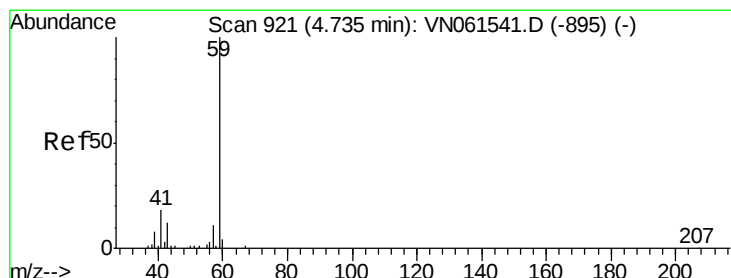
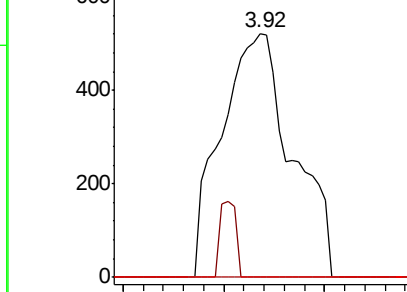
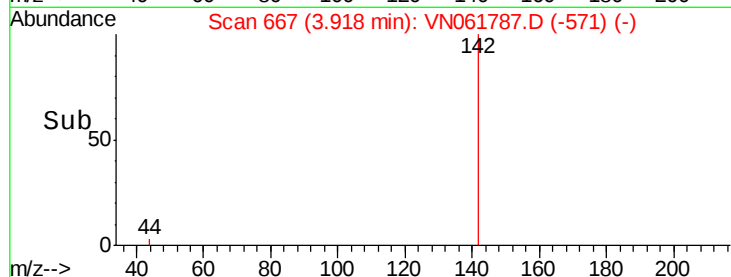
Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20200608DL

Tot Ion:142 Resp: 1273
Ion Ratio Lower Upper
142 100
127 7.1 35.5 53.3#
141 0.0 11.5 17.3#



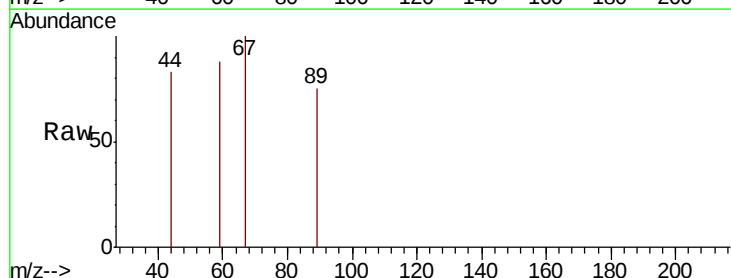
Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

3.92



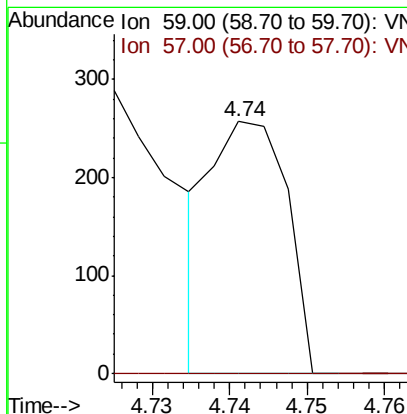
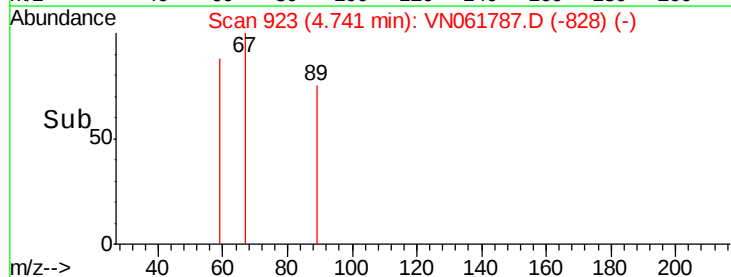
#11
Tert butyl alcohol
Concen: 0.367 ug/l
RT: 4.74 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN061787.D
Acq: 12 Jun 2020 13:40

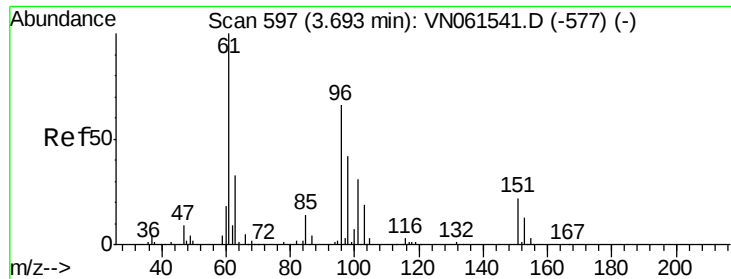
Tgt Ion: 59 Resp: 175
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

4.74

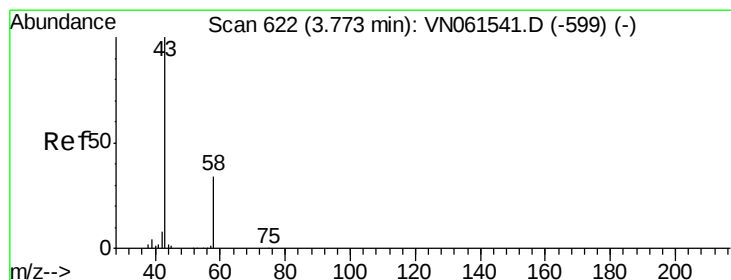
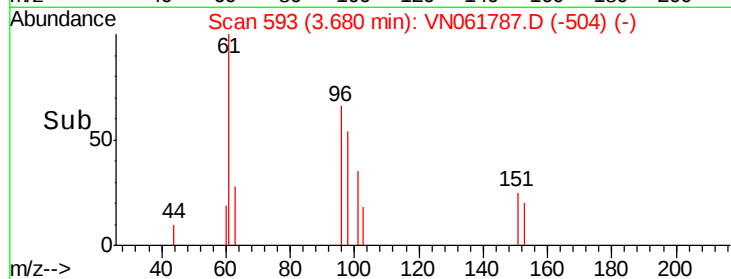
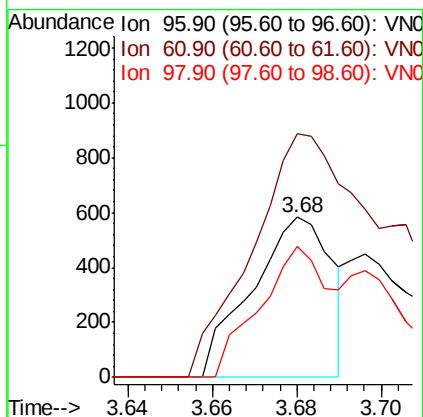
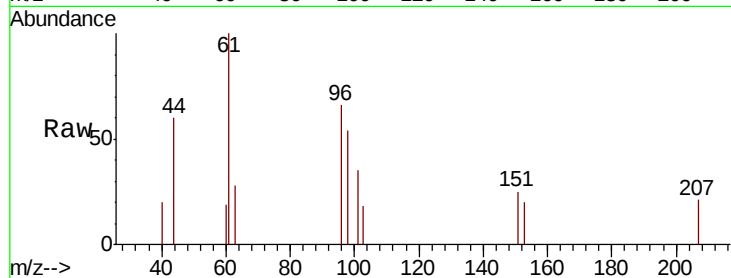




#12
 1,1-Dichloroethene
 Concen: 0.249 ug/l
 RT: 3.68 min Scan# 593
 Delta R.T. -0.01 min
 Lab File: VN061787.D
 Acq: 12 Jun 2020 13:40

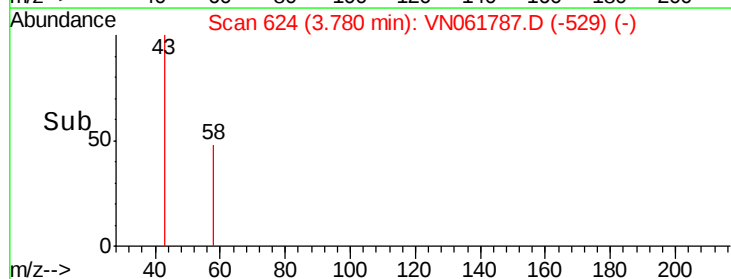
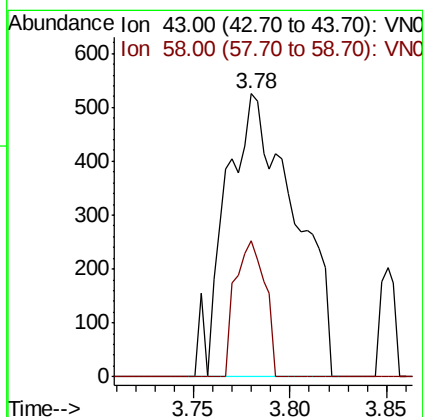
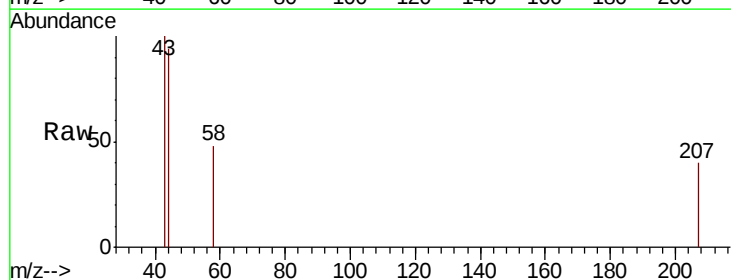
Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D2-20200608DL

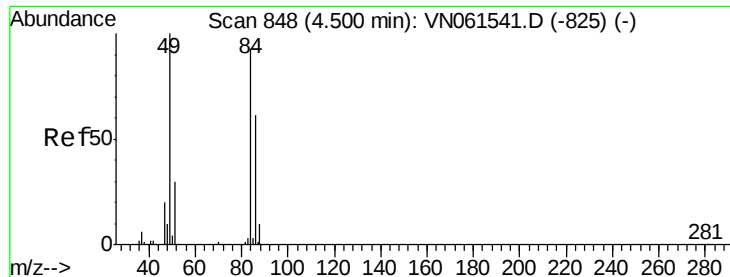
Tot Ion: 96 Resp: 766
 Ion Ratio Lower Upper
 96 100
 61 152.1 120.5 180.7
 98 81.6 50.8 76.2#



#16
 Acetone
 Concen: Below Cal
 RT: 3.78 min Scan# 624
 Delta R.T. 0.01 min
 Lab File: VN061787.D
 Acq: 12 Jun 2020 13:40

Tgt Ion: 43 Resp: 1303
 Ion Ratio Lower Upper
 43 100
 58 48.2 27.2 40.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 850

Delta R.T. 0.01 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

RE108D2-20200608DL

Tot Ion: 84 Resp: 1328

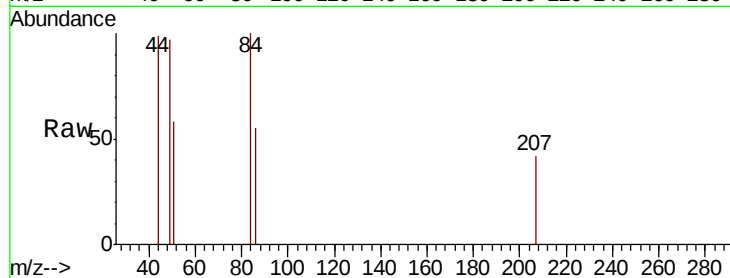
Ion Ratio Lower Upper

84 100

49 97.4 85.8 128.8

51 58.0 26.2 39.2#

86 54.6 52.6 78.8

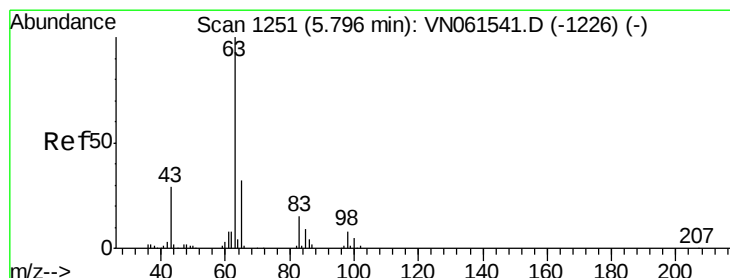
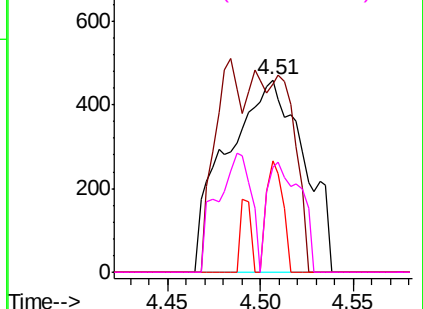
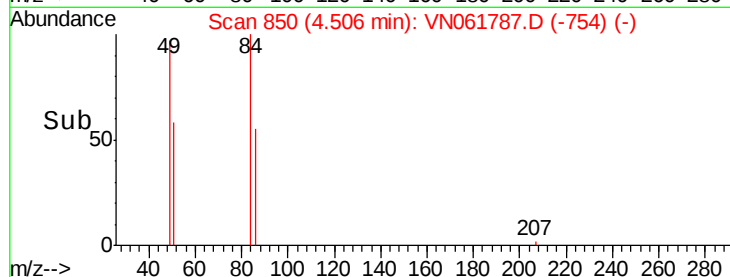


Abundance Ion 83.90 (83.60 to 84.60): VN061541.D (-825) (-)

Ion 48.90 (48.60 to 49.60): VN061541.D (-825) (-)

Ion 50.90 (50.60 to 51.60): VN061541.D (-825) (-)

Ion 85.90 (85.60 to 86.60): VN061541.D (-825) (-)



#24

1,1-Dichloroethane

Concen: 0.341 ug/l

RT: 5.80 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

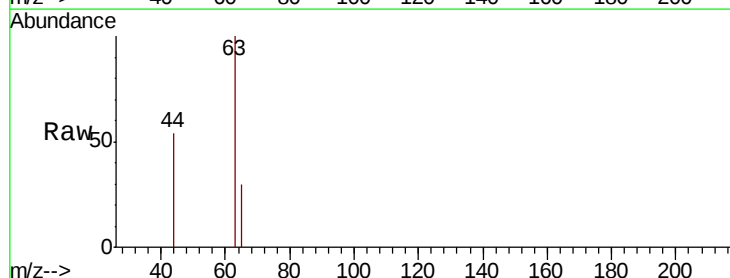
Tgt Ion: 63 Resp: 1917

Ion Ratio Lower Upper

63 100

98 0.0 3.8 11.4#

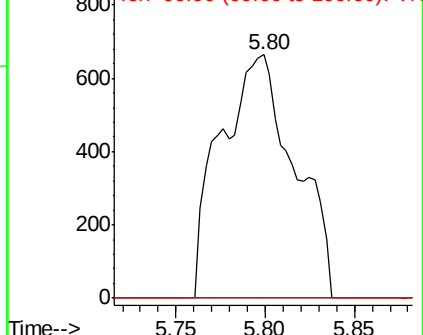
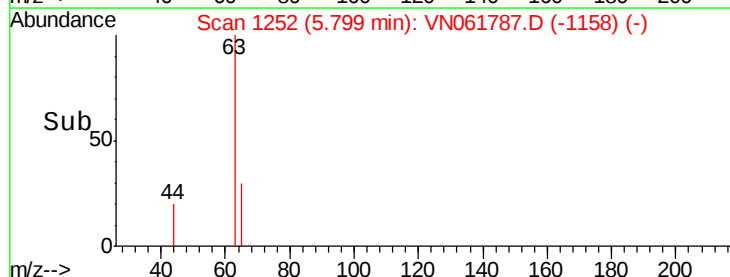
100 0.0 2.5 7.6#

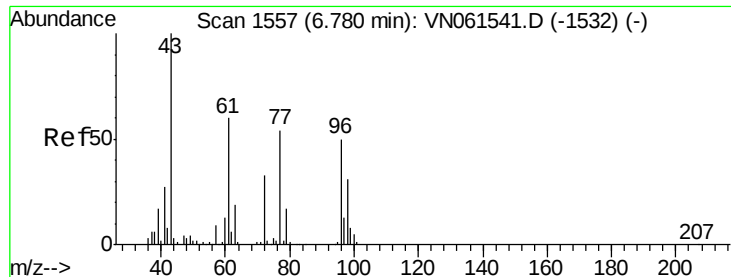


Abundance Ion 62.90 (62.60 to 63.60): VN061541.D (-1226) (-)

Ion 97.90 (97.60 to 98.60): VN061541.D (-1226) (-)

Ion 99.90 (99.60 to 100.60): VN061541.D (-1226) (-)





#27

cis-1,2-Dichloroethene

Concen: 0.578 ug/l

RT: 6.78 min Scan# 1556

Delta R.T. -0.00 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

Instrument :

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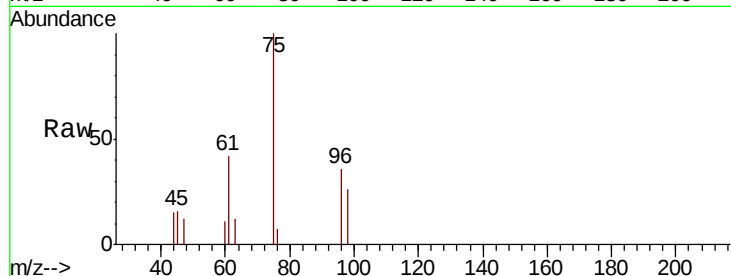
Tot Ion: 96 Resp: 2273

Ion Ratio Lower Upper

96 100

61 116.7 0.0 252.2

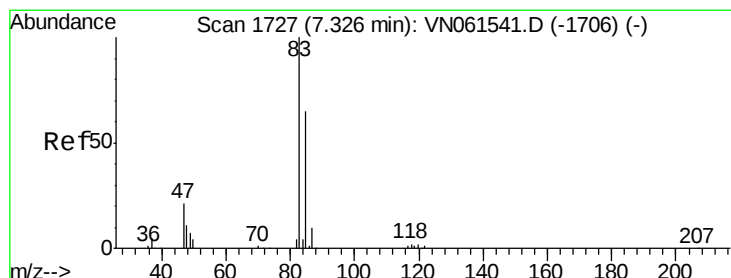
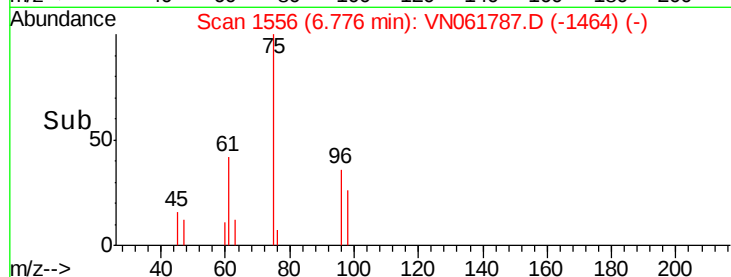
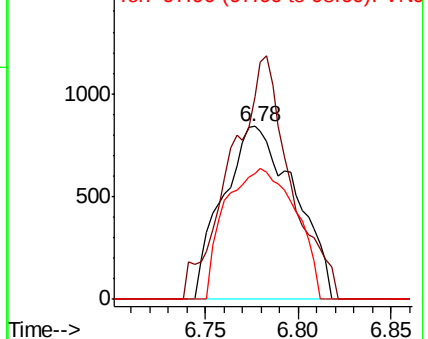
98 73.3 0.0 129.2



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



#30

Chloroform

Concen: 0.213 ug/l

RT: 7.33 min Scan# 1727

Delta R.T. 0.00 min

Lab File: VN061787.D

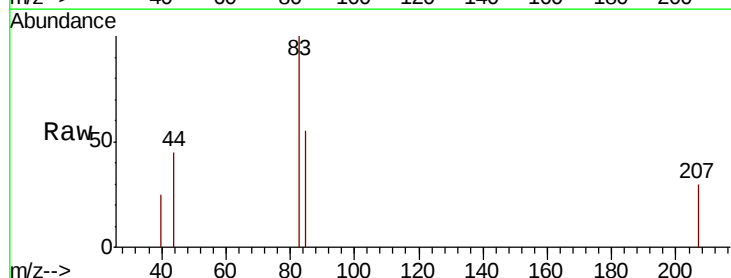
Acq: 12 Jun 2020 13:40

Tgt Ion: 83 Resp: 1323

Ion Ratio Lower Upper

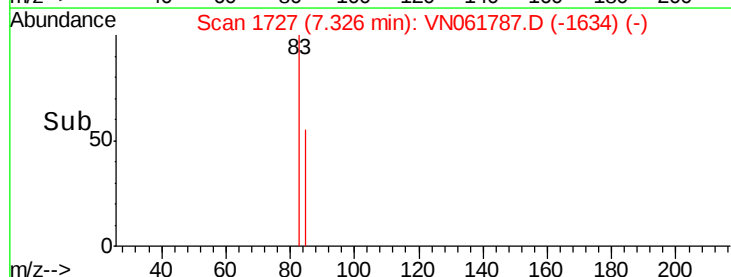
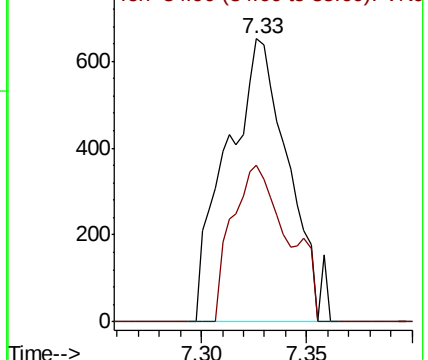
83 100

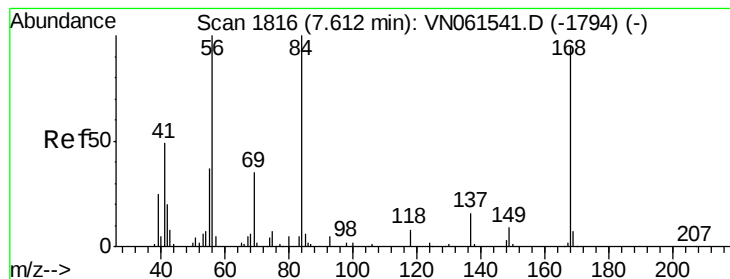
85 55.2 51.7 77.5



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 1.020 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

Instrument :

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ClientSampleId :

RE108D2-20200608DL

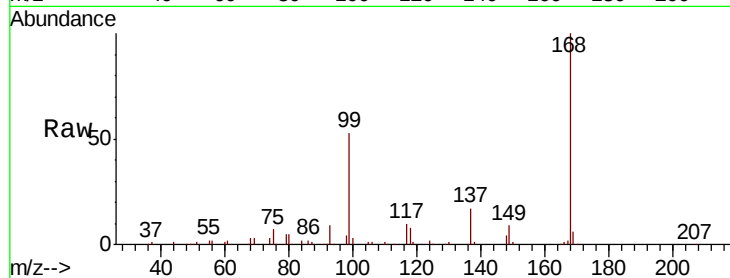
Tot Ion: 56 Resp: 5158

Ion Ratio Lower Upper

56 100

69 174.8 27.8 41.8#

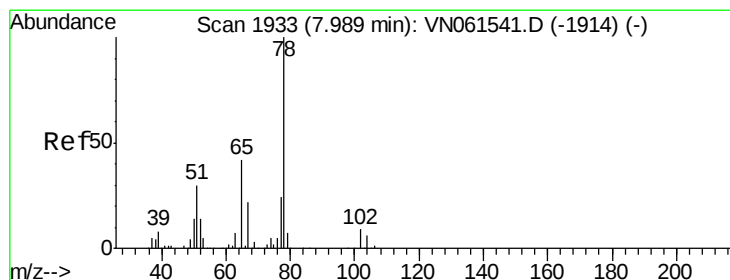
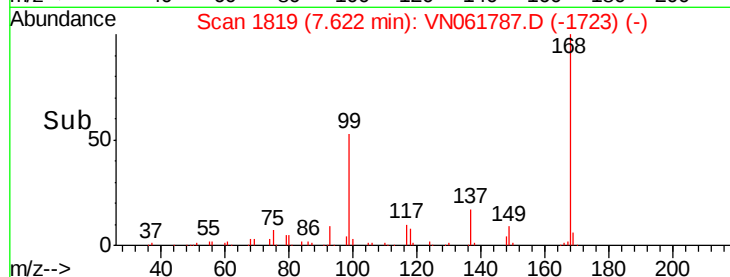
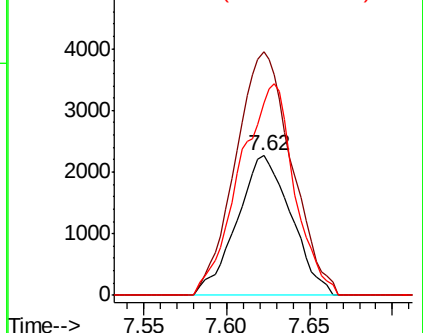
84 138.1 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061787.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061787.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061787.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.294 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061787.D

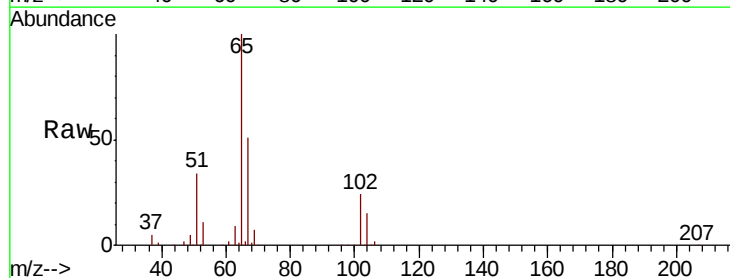
Acq: 12 Jun 2020 13:40

Tgt Ion: 65 Resp: 166150

Ion Ratio Lower Upper

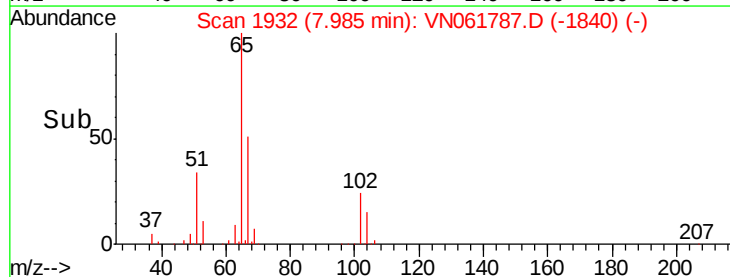
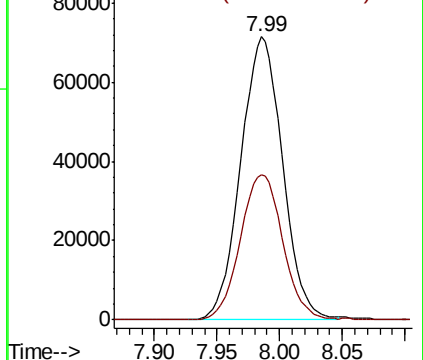
65 100

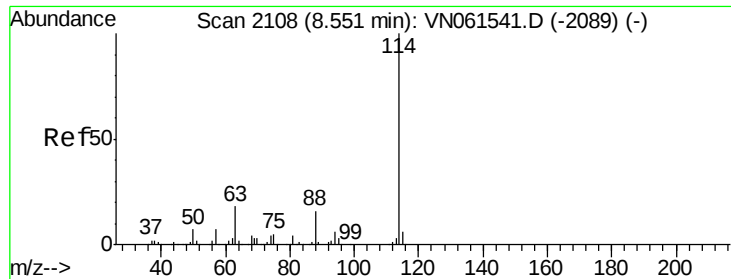
67 51.9 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061787.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061787.D (-1840) (-)

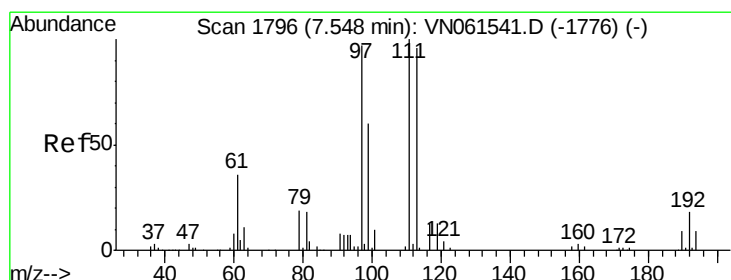
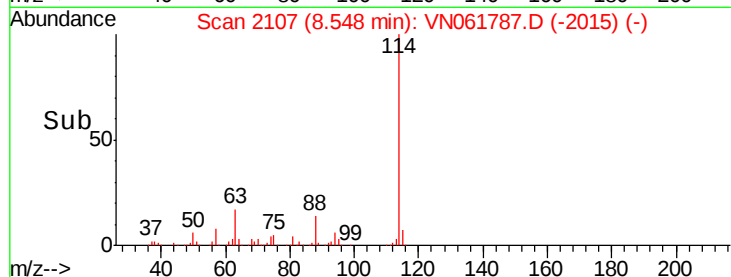
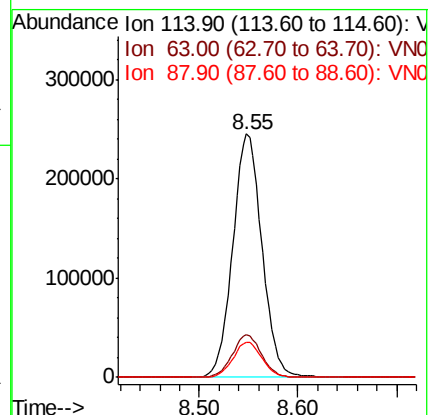
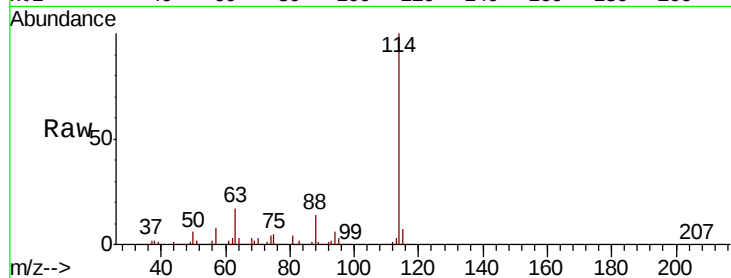




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN061787.D
 Acq: 12 Jun 2020 13:40

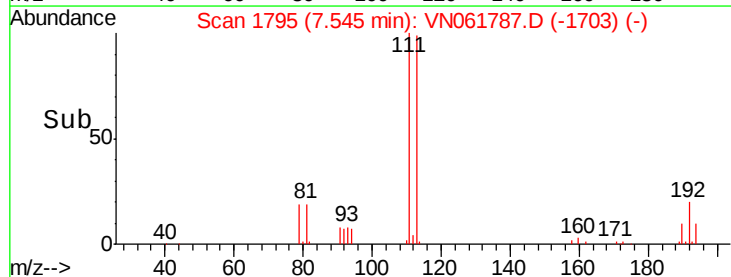
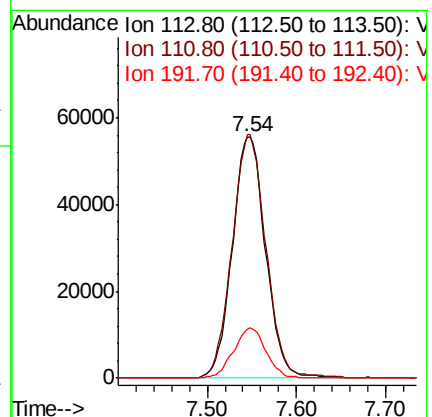
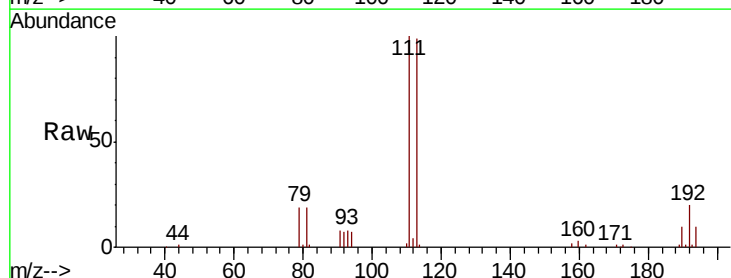
Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D2-20200608DL

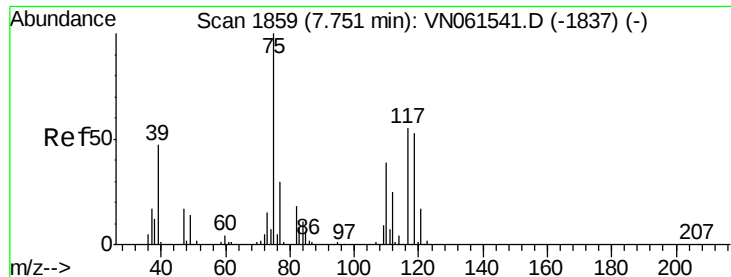
Tot Ion:114 Resp: 505890
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 35.8
 88 14.5 0.0 31.0



#35
 Dibromofluoromethane
 Concen: 55.865 ug/l
 RT: 7.54 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VN061787.D
 Acq: 12 Jun 2020 13:40

Tgt Ion:113 Resp: 143365
 Ion Ratio Lower Upper
 113 100
 111 102.4 83.4 125.0
 192 20.3 15.4 23.2

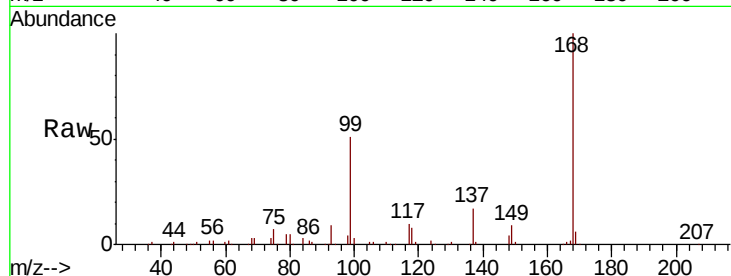




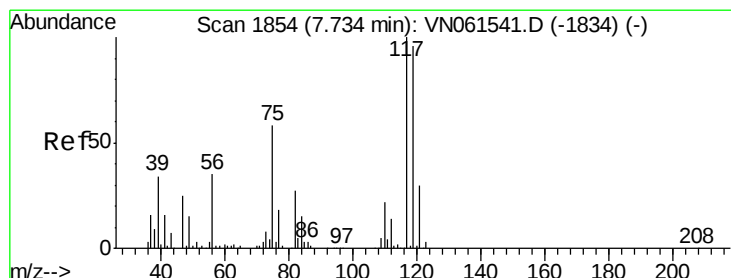
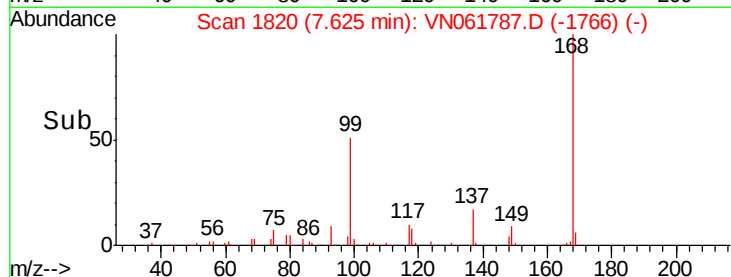
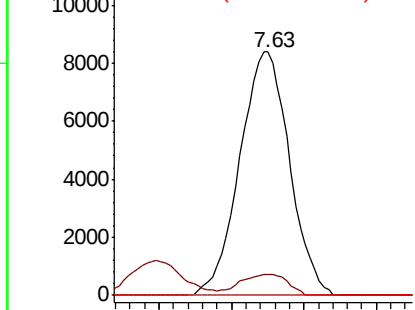
#36
 1,1-Dichloropropene
 Concen: 4.455 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061787.D
 Acq: 12 Jun 2020 13:40

Instrument :
 MSVOA_N
 ClientSampleId :
 RE108D2-20200608DL

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	19.5	58.5#
77	0.0	24.7	37.1#

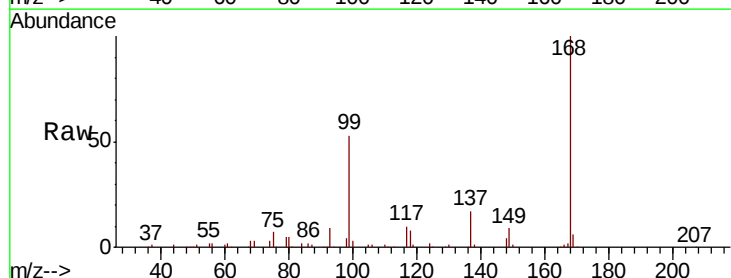


Abundance Ion 74.90 (74.60 to 75.60): VN061541.D (-1837) (-)
 Ion 109.90 (109.60 to 110.60): VN061541.D (-1837) (-)
 Ion 76.90 (76.60 to 77.60): VN061541.D (-1837) (-)

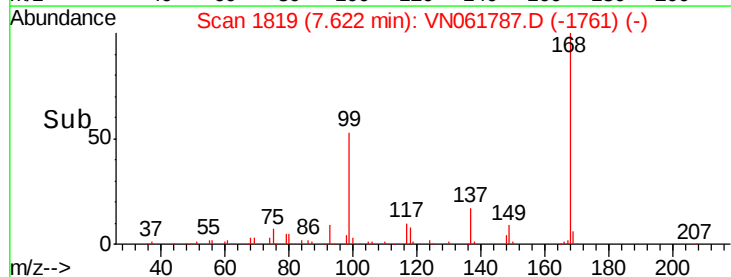
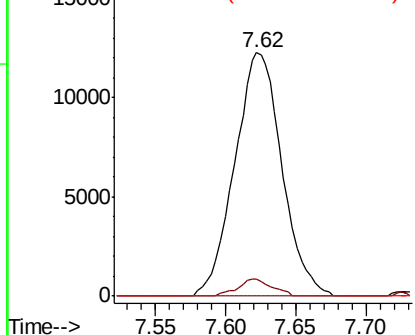


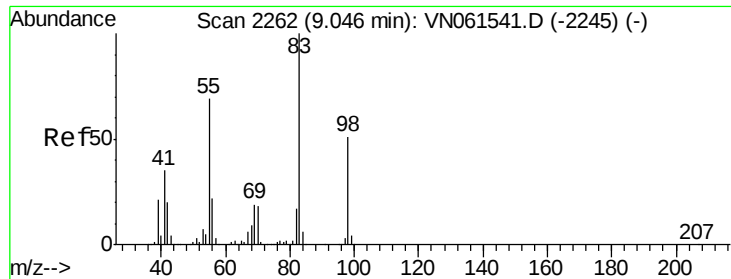
#38
 Carbon Tetrachloride
 Concen: 6.632 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN061787.D
 Acq: 12 Jun 2020 13:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	76.5	114.7#
121	0.0	24.1	36.1#



Abundance Ion 116.80 (116.50 to 117.50): VN061541.D (-1834) (-)
 Ion 118.80 (118.50 to 119.50): VN061541.D (-1834) (-)
 Ion 120.80 (120.50 to 121.50): VN061541.D (-1834) (-)

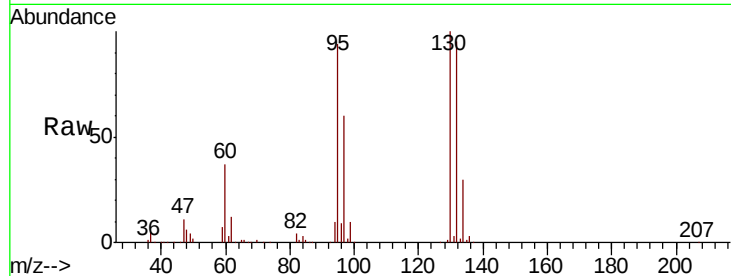




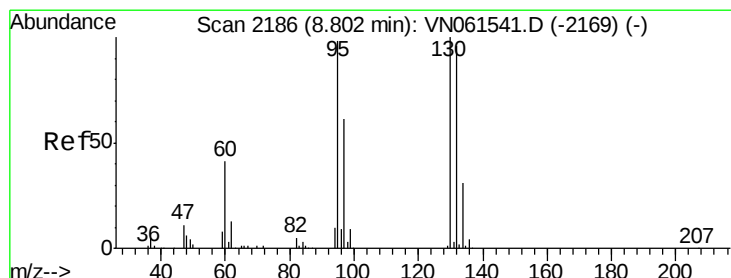
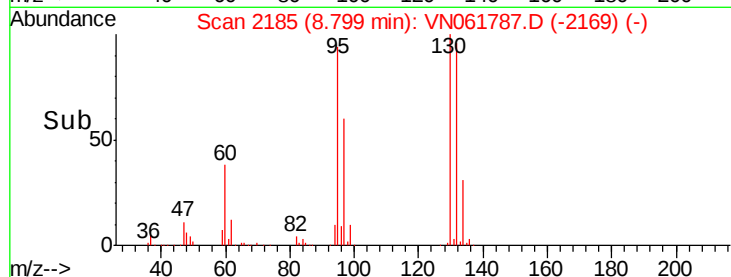
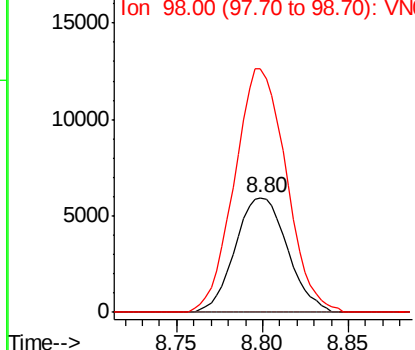
#39
Methylcyclohexane
Concen: 2.274 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.25 min
Lab File: VN061787.D
Acq: 12 Jun 2020 13:40

Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20200608DL

Tot Ion: 83 Resp: 12552
Ion Ratio Lower Upper
83 100
55 0.0 54.9 82.3#
98 209.1 41.0 61.4#

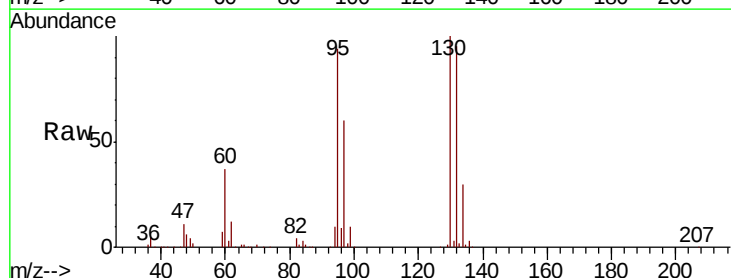


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

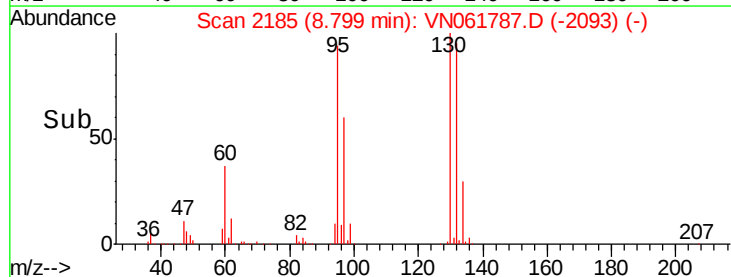
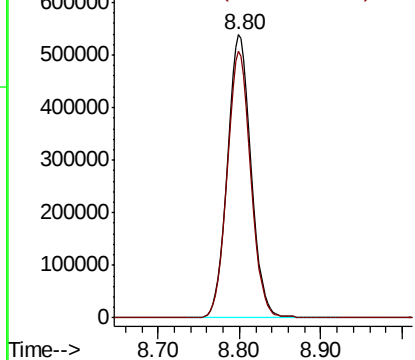


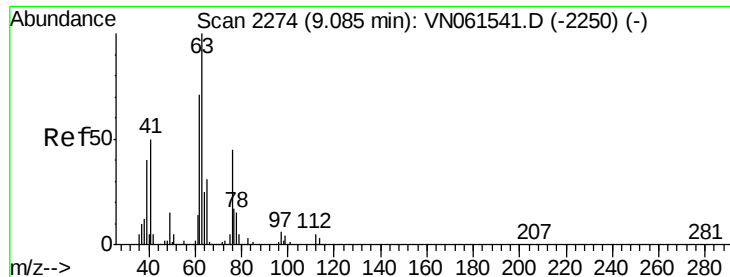
#44
Trichloroethene
Concen: 259.160 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.00 min
Lab File: VN061787.D
Acq: 12 Jun 2020 13:40

Tgt Ion:130 Resp: 1100553
Ion Ratio Lower Upper
130 100
95 94.5 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0





#45

1,2-Dichloropropane

Concen: 0.648 ug/l

RT: 8.80 min Scan# 2184

Delta R.T. -0.29 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

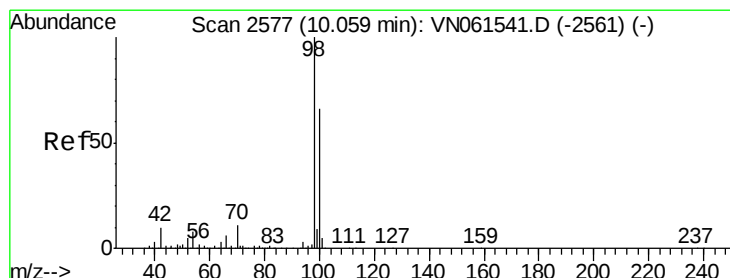
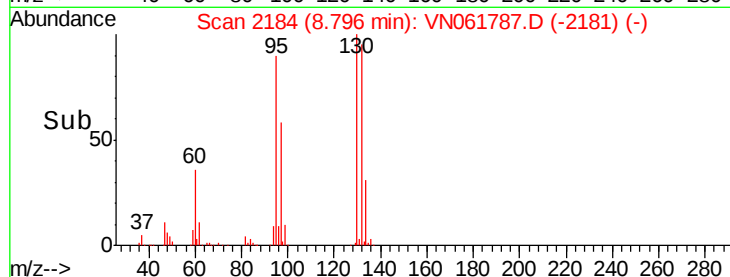
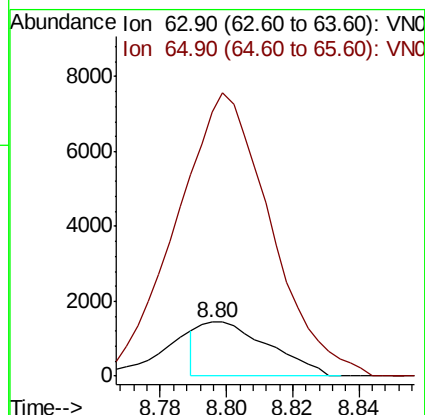
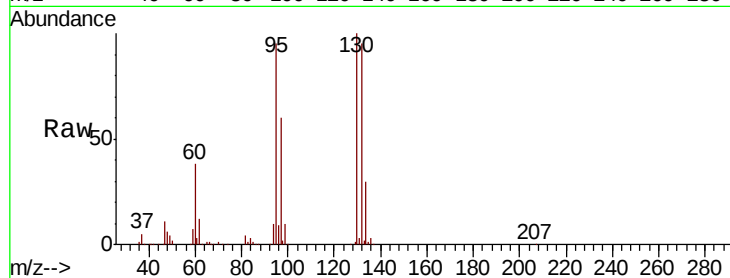
RE108D2-20200608DL

Tot Ion: 63 Resp: 2126

Ion Ratio Lower Upper

63 100

65 456.7 24.7 37.1#



#50

Toluene-d8

Concen: 51.776 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061787.D

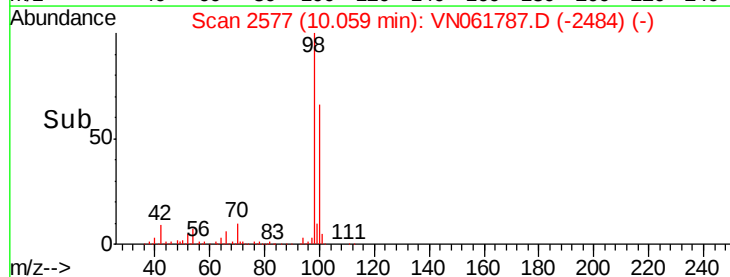
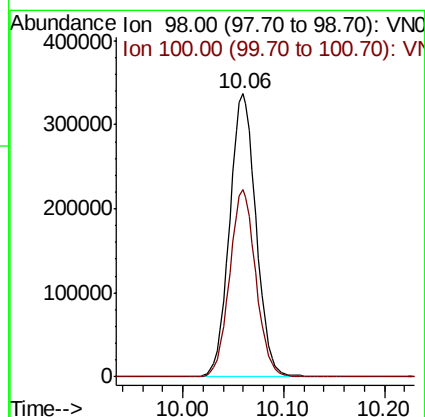
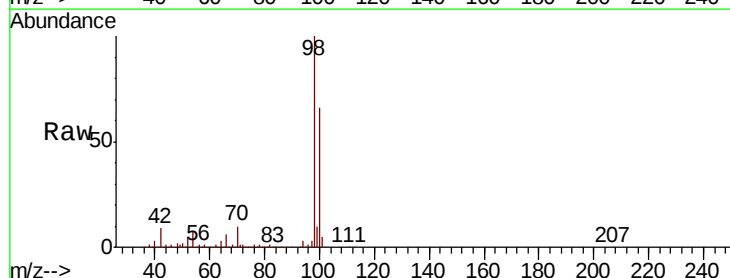
Acq: 12 Jun 2020 13:40

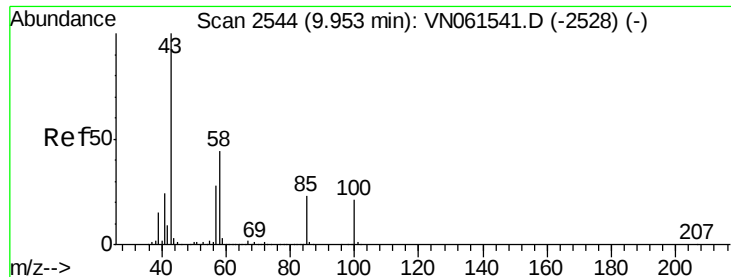
Tgt Ion: 98 Resp: 615745

Ion Ratio Lower Upper

98 100

100 65.4 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 0.563 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

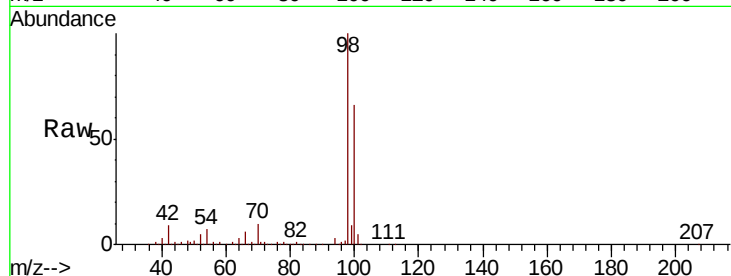
RE108D2-20200608DL

Tot Ion: 43 Resp: 2058

Ion Ratio Lower Upper

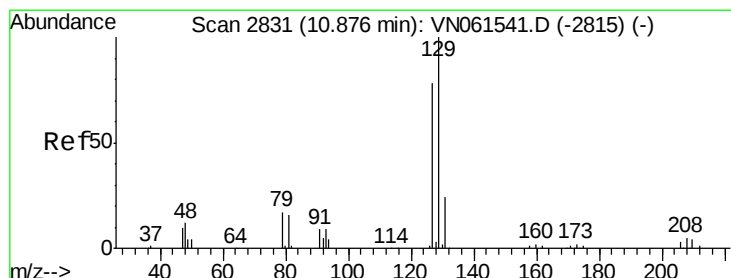
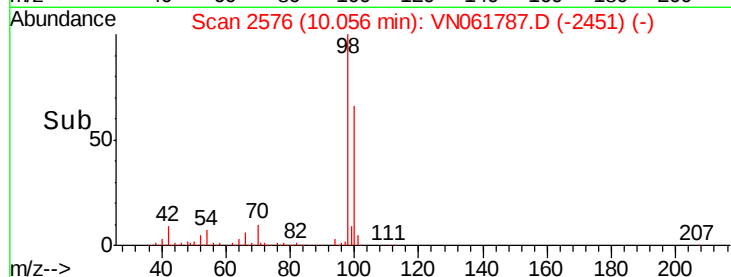
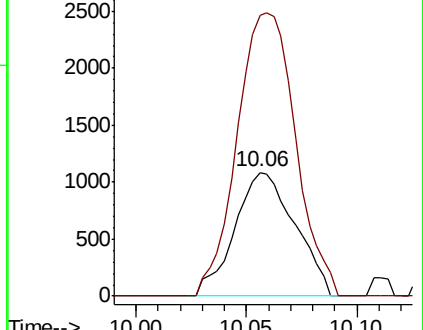
43 100

58 222.0 35.0 52.6#



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN061541.D (-2528) (-)



#60

Dibromochloromethane

Concen: 0.235 ug/l

RT: 10.60 min Scan# 2745

Delta R.T. -0.28 min

Lab File: VN061787.D

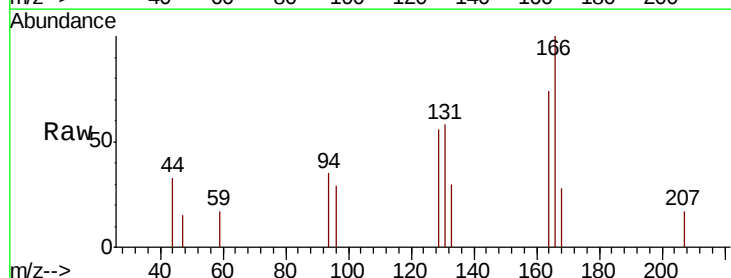
Acq: 12 Jun 2020 13:40

Tgt Ion: 129 Resp: 958

Ion Ratio Lower Upper

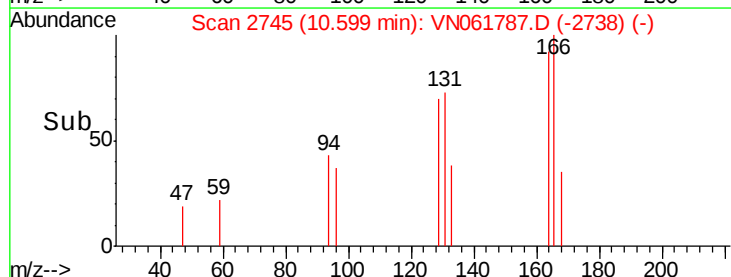
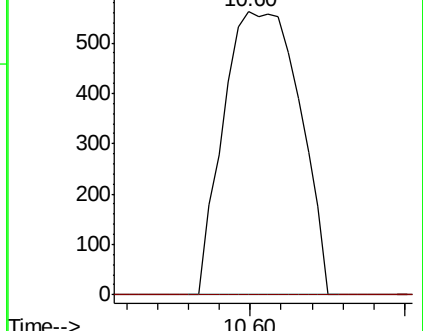
129 100

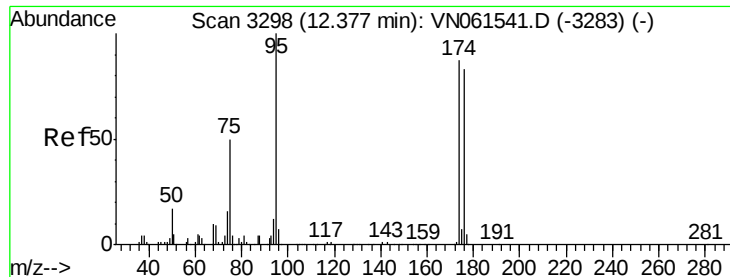
127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): VN061541.D (-2815) (-)

Ion 126.80 (126.50 to 127.50): VN061541.D (-2815) (-)

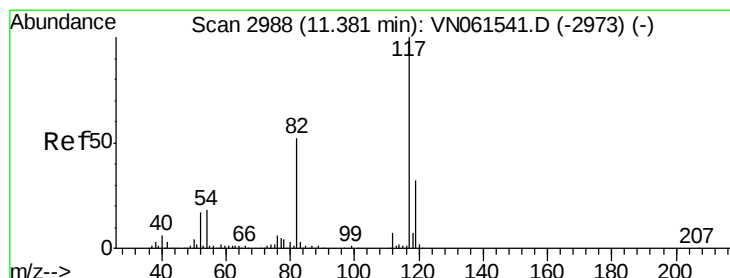
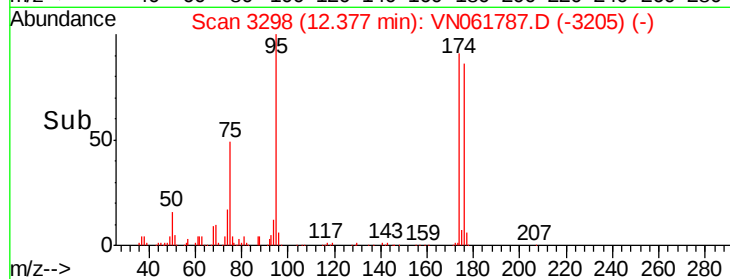
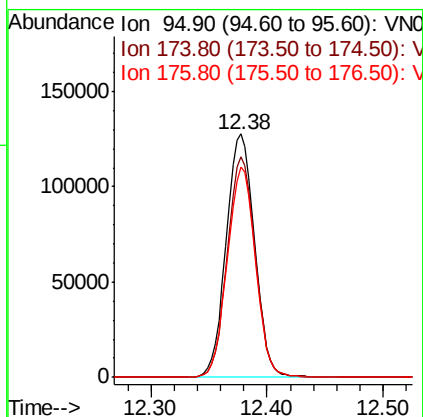
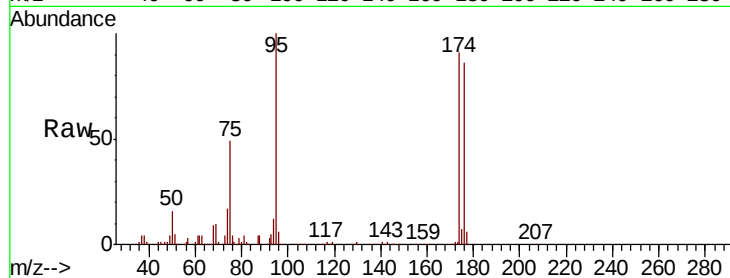




#62
4-Bromofluorobenzene
Concen: 49.710 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061787.D
Acq: 12 Jun 2020 13:40

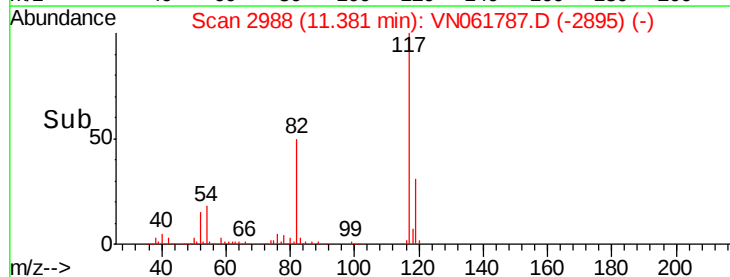
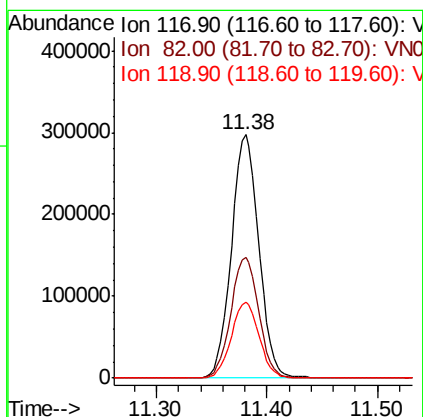
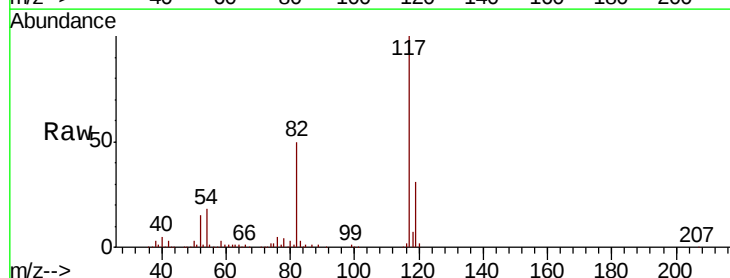
Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20200608DL

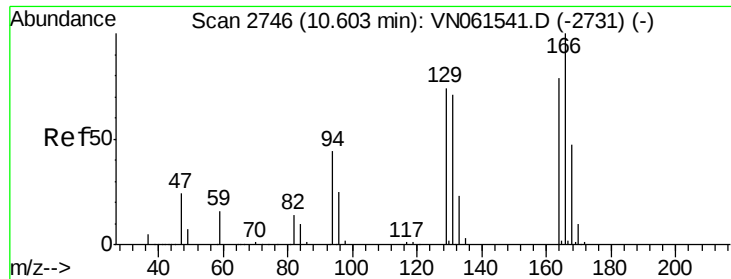
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.3	0.0	172.8
176	85.4	0.0	164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061787.D
Acq: 12 Jun 2020 13:40

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.6	41.5	62.3
119	31.4	25.6	38.4

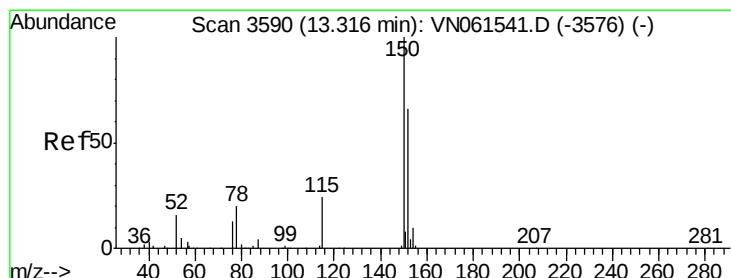
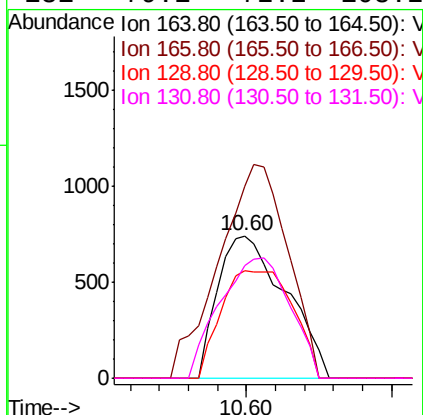
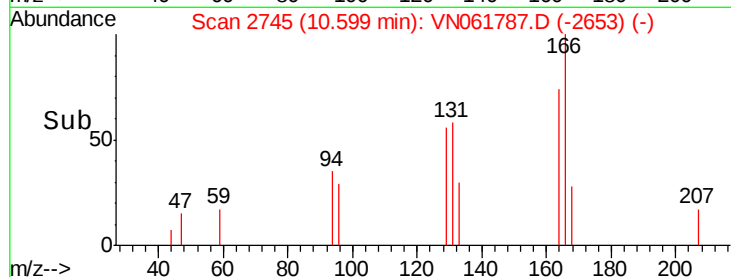
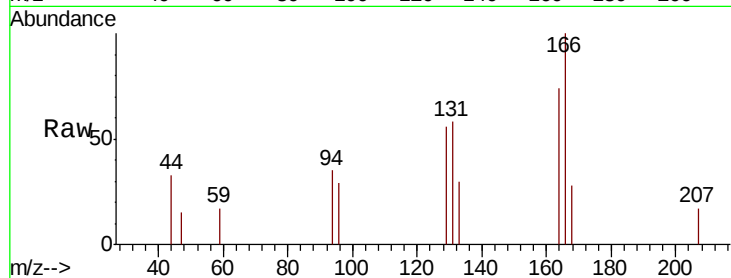




#64
Tetrachloroethene
Concen: 0.250 ug/l
RT: 10.60 min Scan# 2745
Delta R.T. -0.00 min
Lab File: VN061787.D
Acq: 12 Jun 2020 13:40

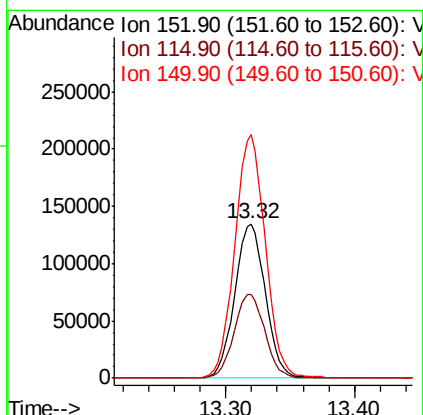
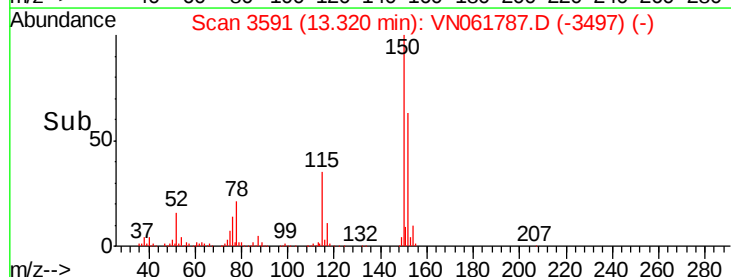
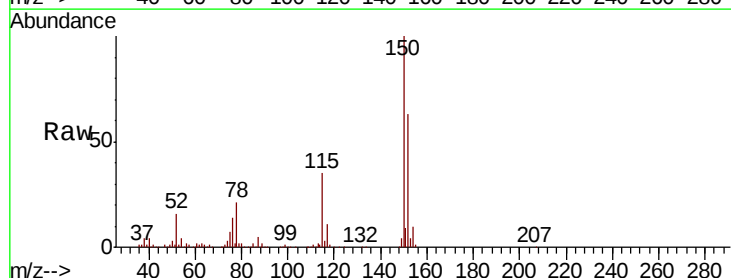
Instrument :
MSVOA_N
ClientSampleId :
RE108D2-20200608DL

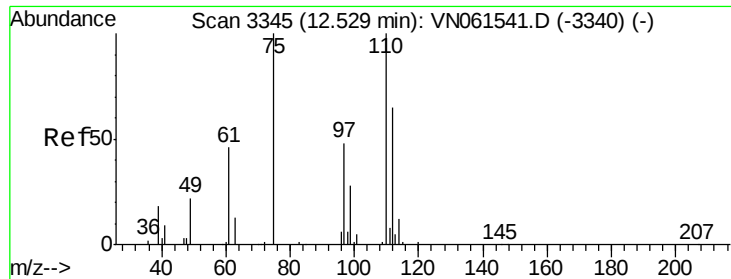
Tot Ion:164 Resp: 1204
Ion Ratio Lower Upper
164 100
166 135.2 101.5 152.3
129 75.8 74.9 112.3
131 79.1 72.2 108.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN061787.D
Acq: 12 Jun 2020 13:40

Tgt Ion:152 Resp: 222537
Ion Ratio Lower Upper
152 100
115 54.7 28.0 84.0
150 157.9 0.0 344.0





#76

1,2,3-Trichloropropane

Concen: 25.657 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

Instrument :

MSVOA_N

ClientSampleId :

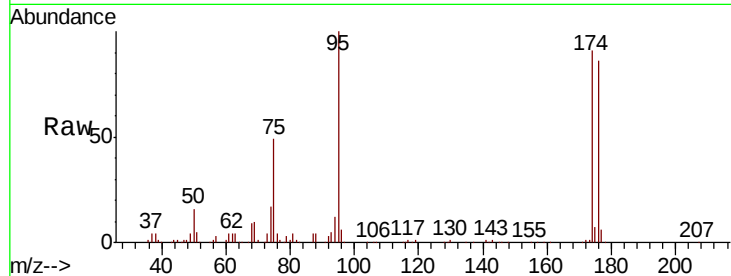
RE108D2-20200608DL

Tot Ion: 75 Resp: 103822

Ion Ratio Lower Upper

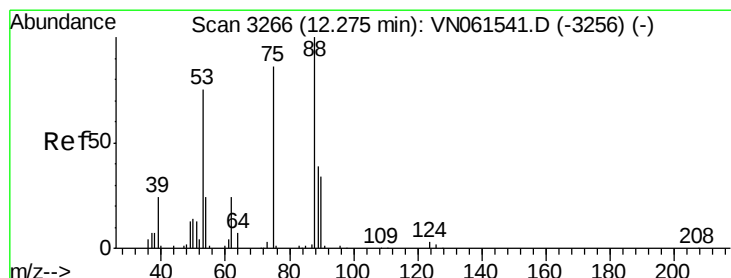
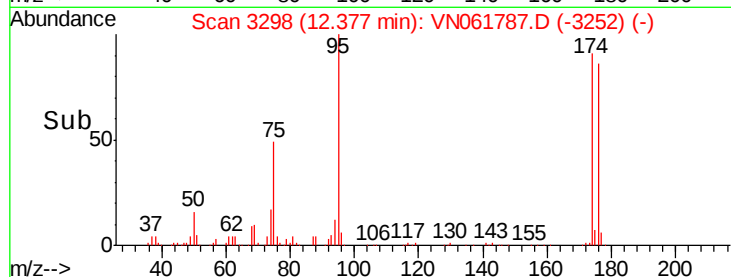
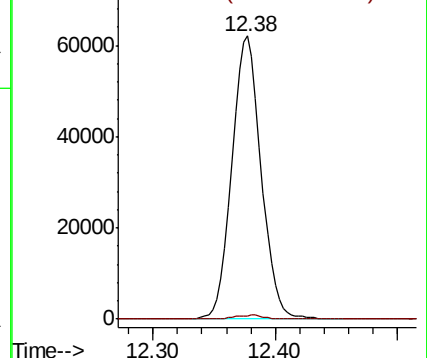
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 65.611 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061787.D

Acq: 12 Jun 2020 13:40

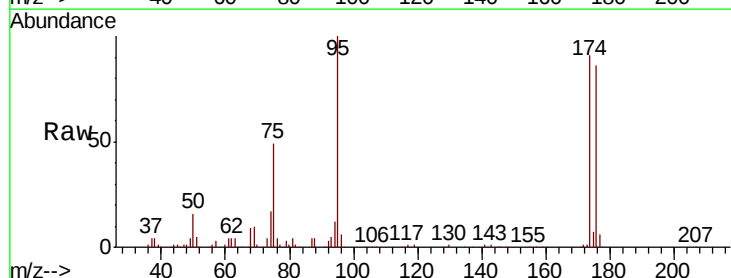
Tgt Ion: 75 Resp: 103822

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

