

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061749.D
 Acq On : 11 Jun 2020 16:04
 Operator : JC/MD
 Sample : L2988-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D2-20200608

Quant Time: Jun 12 05:11:52 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	7.63	168	292340	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	487489	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	484343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	212635	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	161579	46.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.78%	
35) Dibromofluoromethane	7.55	113	134425	54.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.72%	
50) Toluene-d8	10.06	98	588207	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	
62) 4-Bromofluorobenzene	12.38	95	204883	49.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.00%	

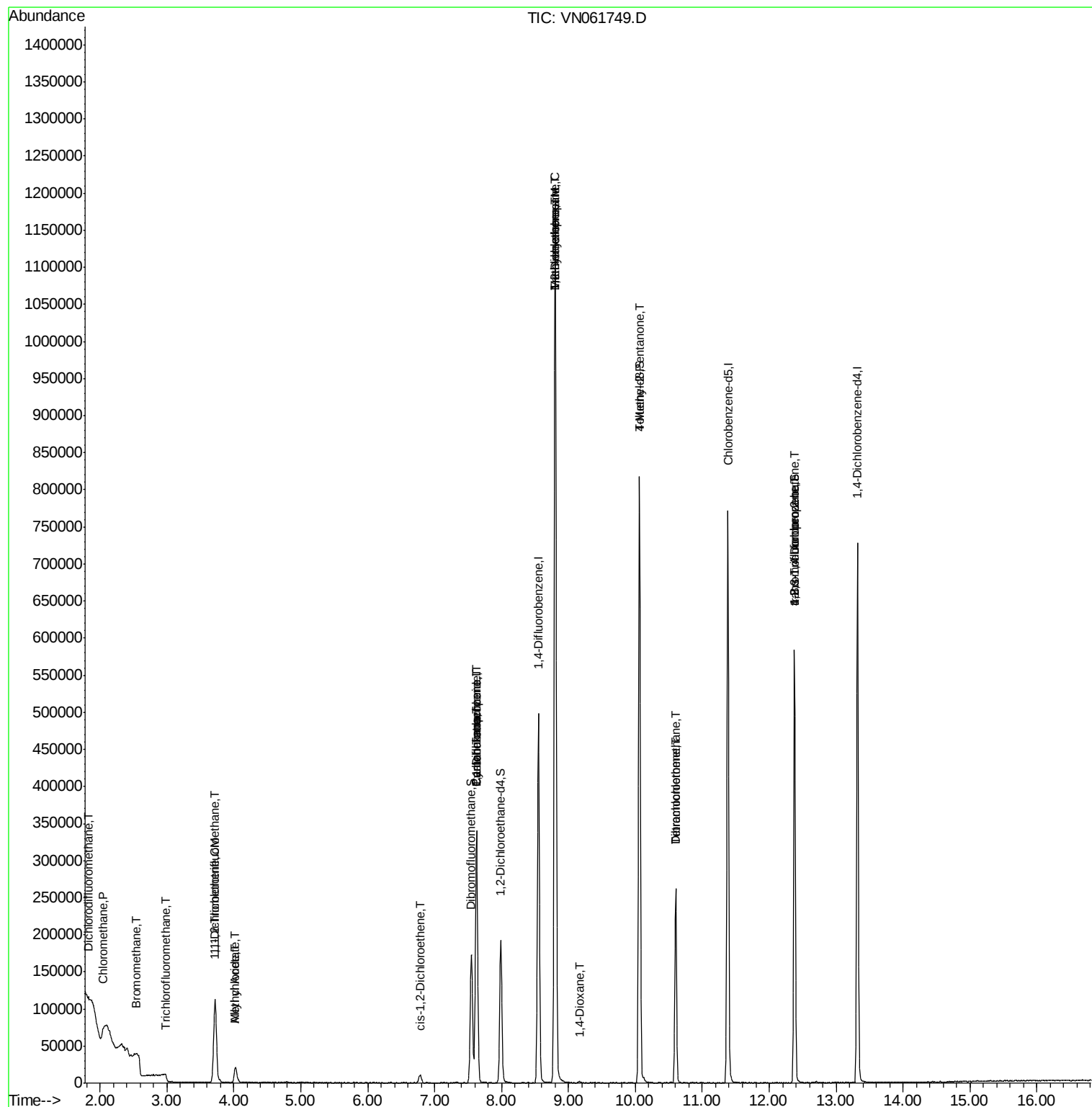
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	211	1.209	ug/l #	43
3) Chloromethane	2.03	50	1385	0.388	ug/l #	84
5) Bromomethane	2.55	94	578	0.206	ug/l #	62
7) Trichlorofluoromethane	2.98	101	1583	0.251	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.72	101	71226	25.474	ug/l	98
12) 1,1-Dichloroethene	3.70	96	1581	0.529	ug/l #	76
14) Allyl chloride	4.02	41	3386	0.867	ug/l #	69
16) Acetone	3.79	43	3737	Below Cal	#	76
18) Methyl Acetate	4.02	43	7745	2.456	ug/l #	46
20) Methylene Chloride	4.50	84	317	Below Cal	#	60
27) cis-1,2-Dichloroethene	6.78	96	3612	0.947	ug/l	24
31) Cyclohexane	7.62	56	4928	1.004	ug/l #	4
36) 1,1-Dichloropropene	7.63	75	19886	4.608	ug/l #	48
38) Carbon Tetrachloride	7.63	117	27325	6.564	ug/l #	15
39) Methylcyclohexane	8.80	83	5170	0.972	ug/l #	1
44) Trichloroethene	8.80	130	470363	114.943	ug/l	95
45) 1,2-Dichloropropane	8.81	63	790	0.250	ug/l #	1
49) 1,4-Dioxane	9.16	88	723	16.588	ug/l #	18
51) 4-Methyl-2-Pentanone	10.06	43	2063	0.585	ug/l #	1
60) Dibromochloromethane	10.60	129	54663	13.887	ug/l #	11
64) Tetrachloroethene	10.60	164	63282	13.880	ug/l	97
76) 1,2,3-Trichloropropane	12.38	75	99859	25.827	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	99859	66.045	ug/l #	15

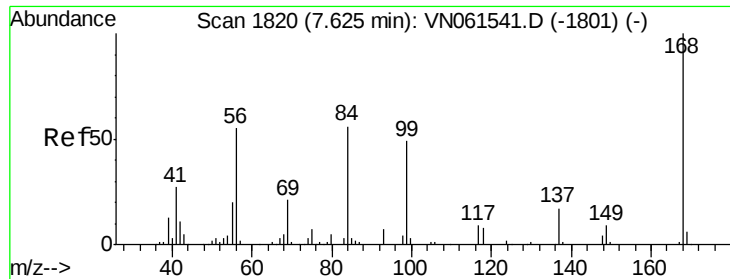
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061120\
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Quant Title : SW846 8260
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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: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

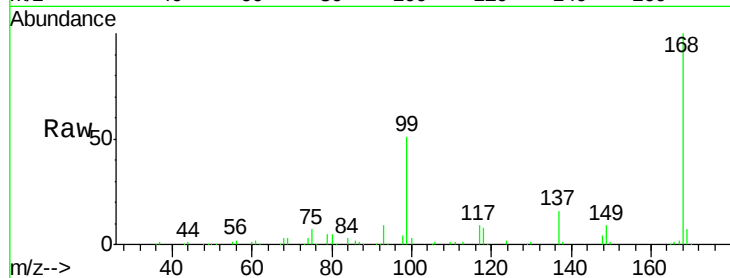
RE134D2-20200608

Tot Ion:168 Resp: 292340

Ion Ratio Lower Upper

168 100

99 51.2 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

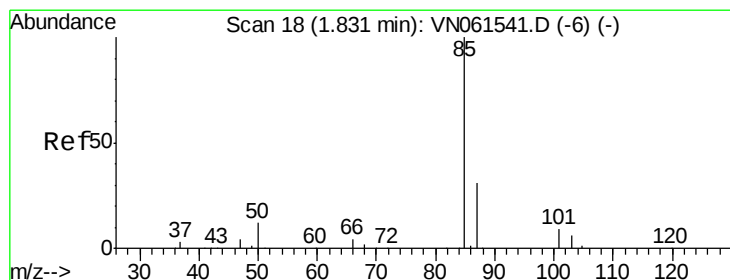
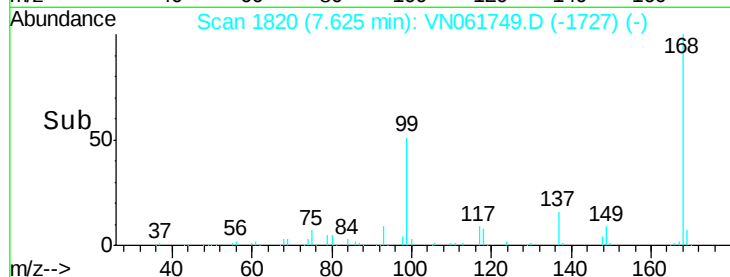
7.63

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.209 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN061749.D

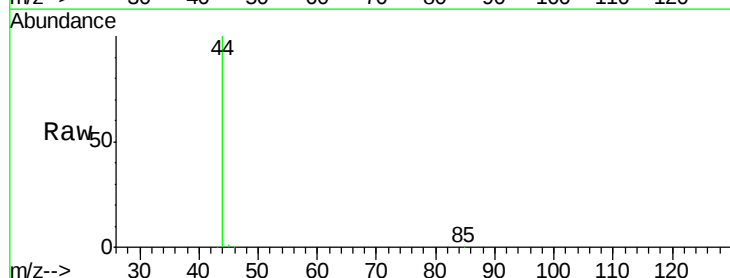
Acq: 11 Jun 2020 16:04

Tgt Ion: 85 Resp: 211

Ion Ratio Lower Upper

85 100

87 0.0 15.6 46.8#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

200

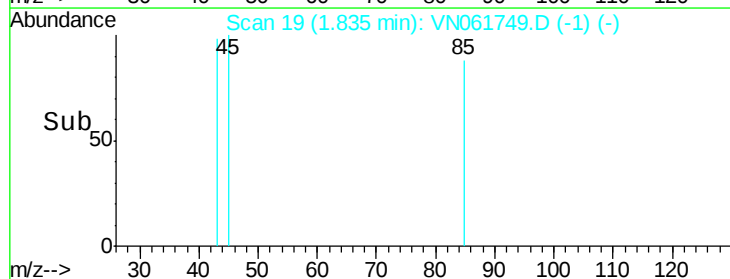
150

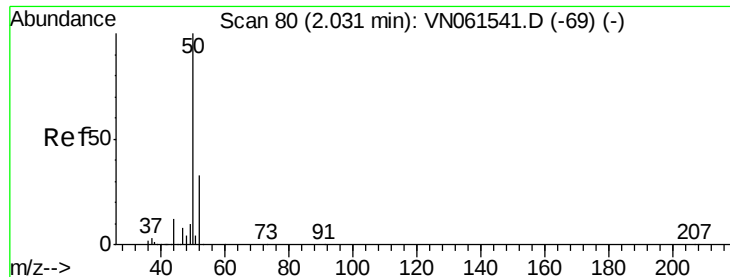
100

50

0

Time-->





#3

Chloromethane

Concen: 0.388 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

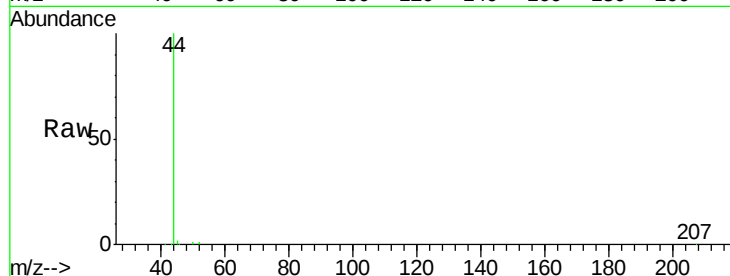
RE134D2-20200608

Tot Ion: 50 Resp: 1385

Ion Ratio Lower Upper

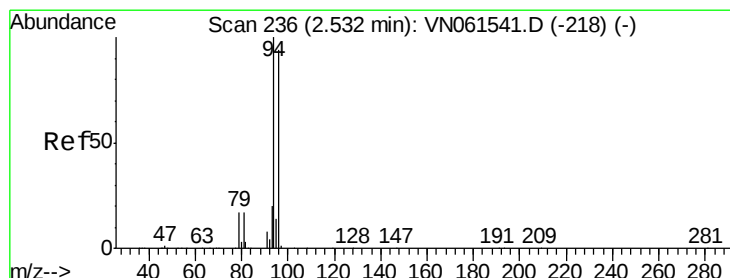
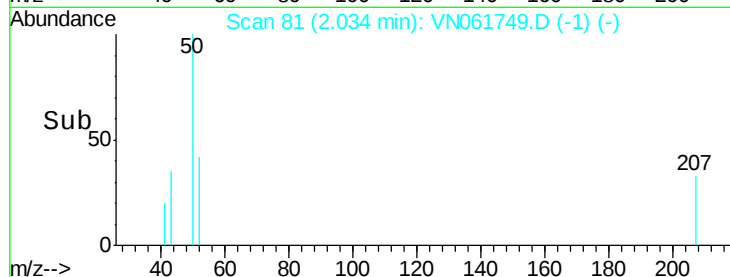
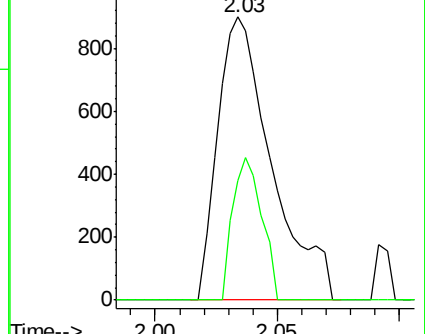
50 100

52 42.4 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#5

Bromomethane

Concen: 0.206 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN061749.D

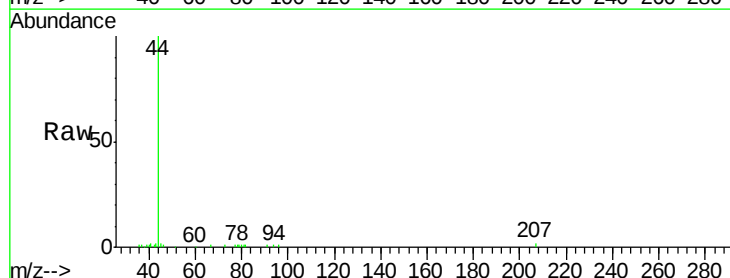
Acq: 11 Jun 2020 16:04

Tgt Ion: 94 Resp: 578

Ion Ratio Lower Upper

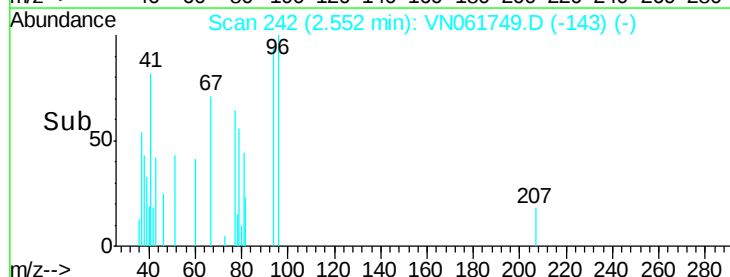
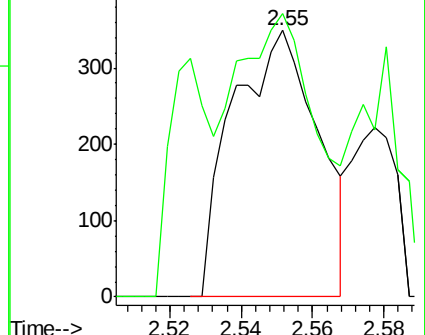
94 100

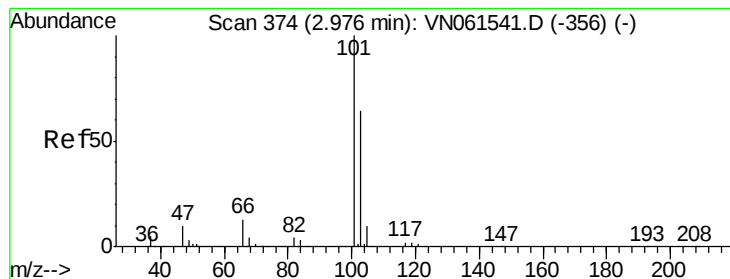
96 57.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#7

Trichlorofluoromethane

Concen: 0.251 ug/l

RT: 2.98 min Scan# 376

Delta R.T. 0.01 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

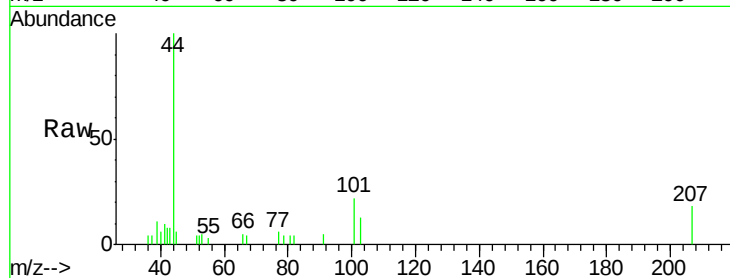
RE134D2-20200608

Tot Ion:101 Resp: 1583

Ion Ratio Lower Upper

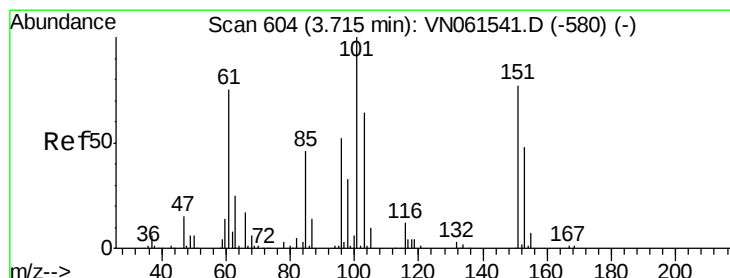
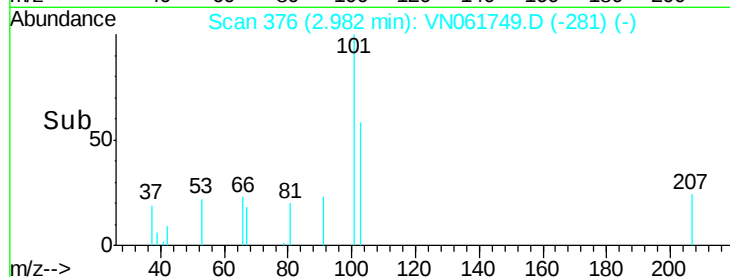
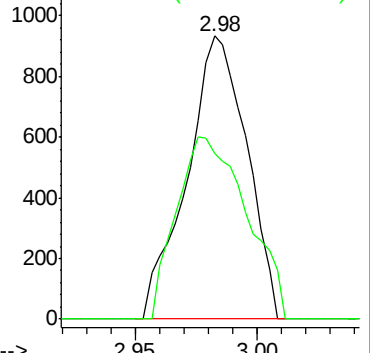
101 100

103 58.4 51.4 77.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.474 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

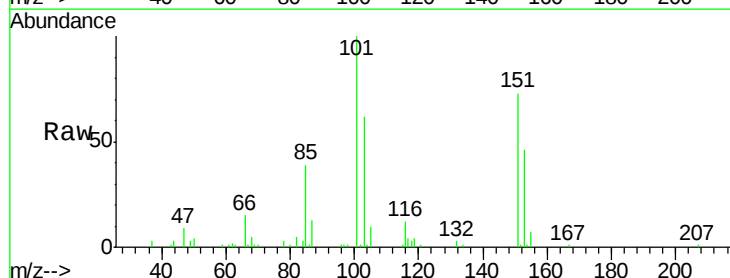
Tgt Ion:101 Resp: 71226

Ion Ratio Lower Upper

101 100

85 42.1 35.2 52.8

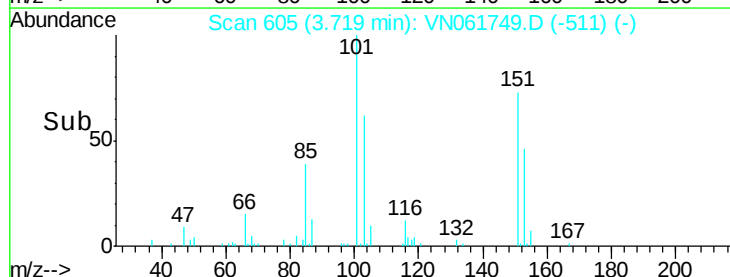
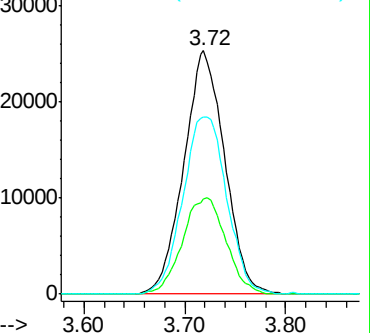
151 78.2 61.0 91.6

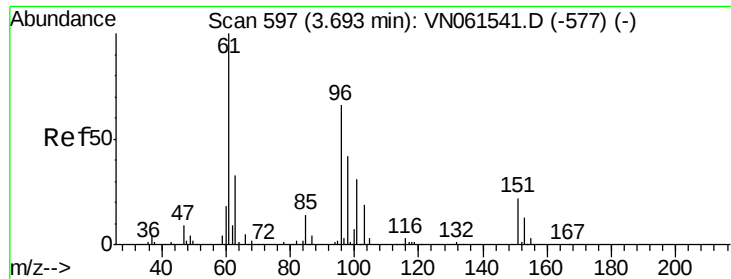


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V





#12

1,1-Dichloroethene

Concen: 0.529 ug/l

RT: 3.70 min Scan# 600

Delta R.T. 0.01 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200608

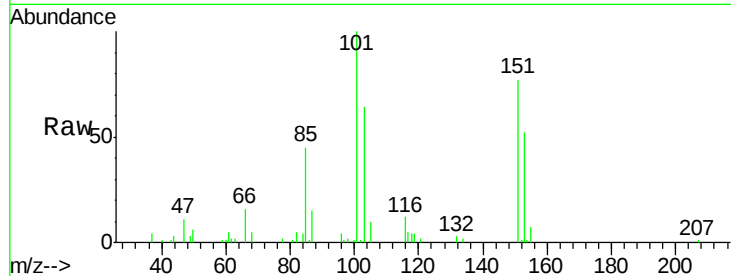
Tot Ion: 96 Resp: 1581

Ion Ratio Lower Upper

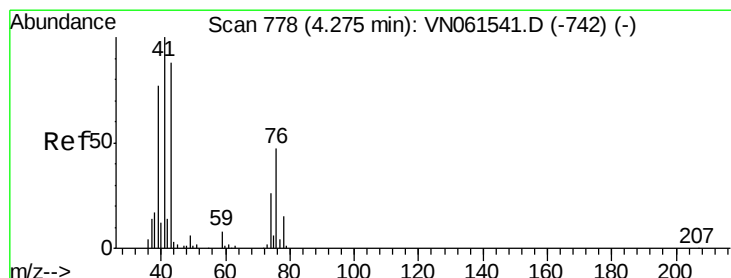
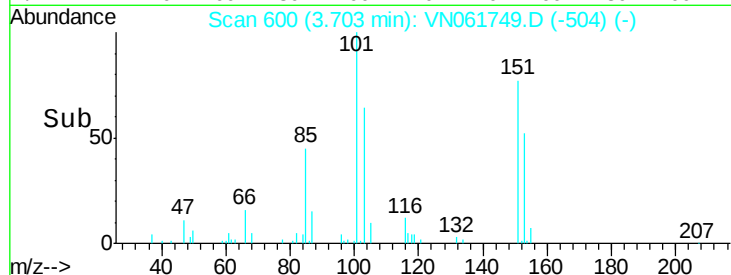
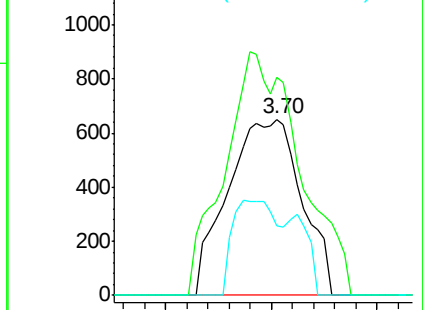
96 100

61 123.8 120.5 180.7

98 39.4 50.8 76.2#



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#14

Allyl chloride

Concen: 0.867 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.25 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

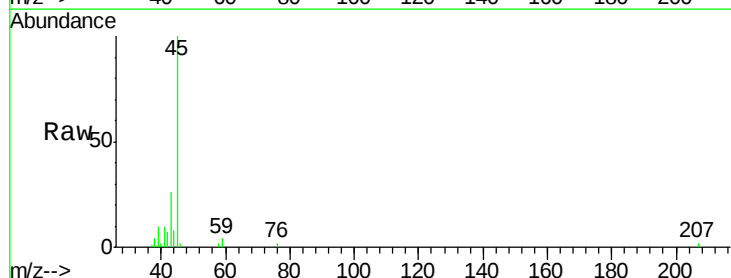
Tgt Ion: 41 Resp: 3386

Ion Ratio Lower Upper

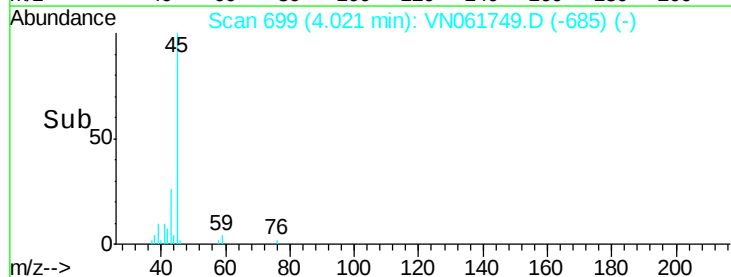
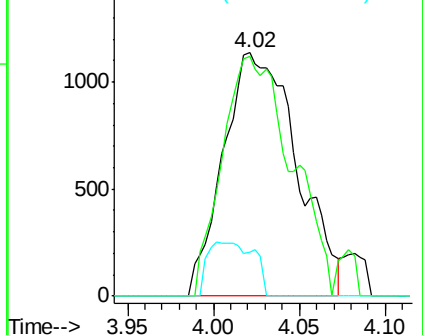
41 100

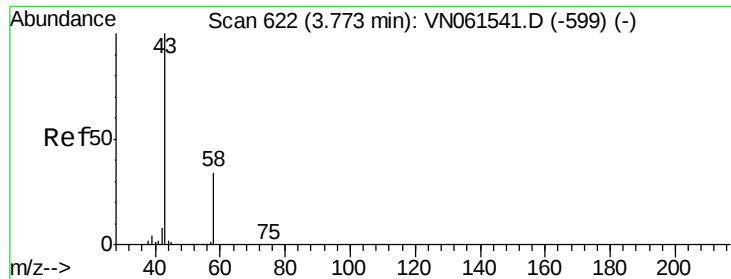
39 92.9 58.6 88.0#

76 14.0 34.2 51.4#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

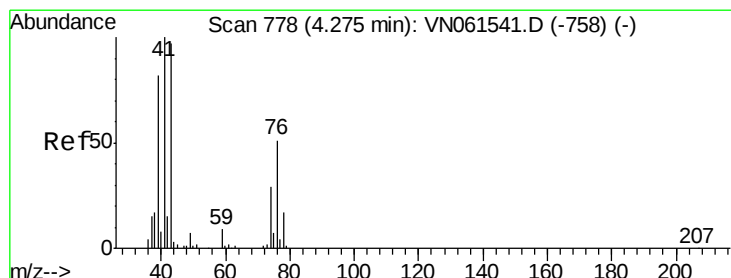
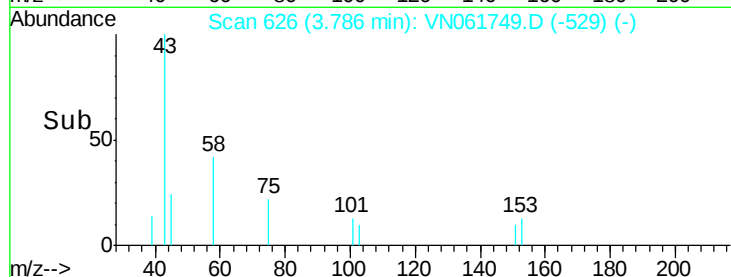
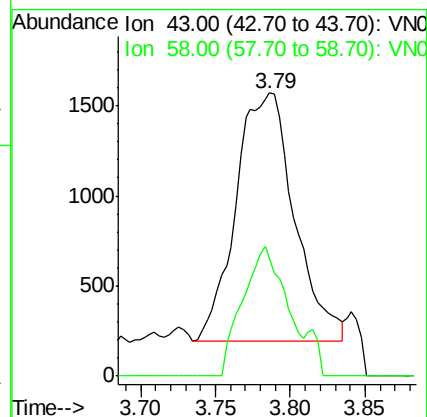
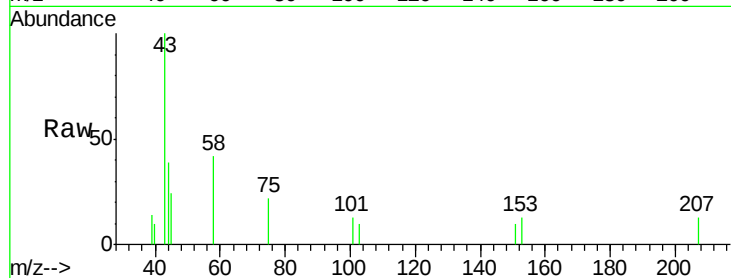
RE134D2-20200608

Tot Ion: 43 Resp: 3737

Ion Ratio Lower Upper

43 100

58 48.0 27.2 40.8#



#18

Methyl Acetate

Concen: 2.456 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.25 min

Lab File: VN061749.D

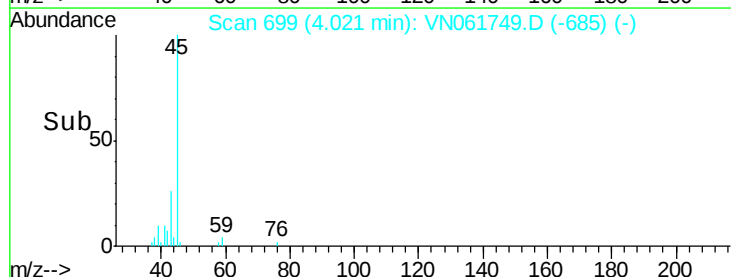
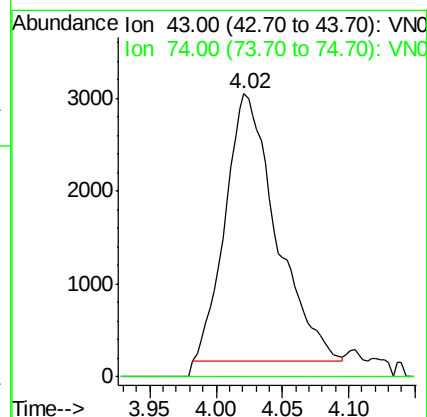
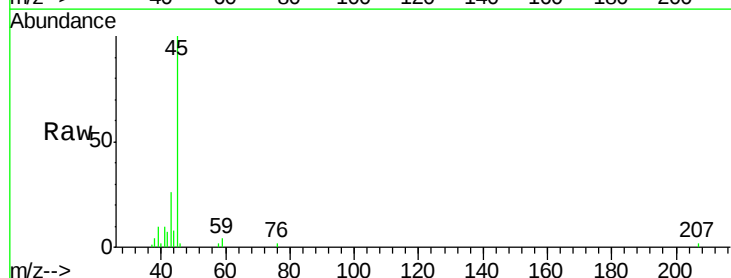
Acq: 11 Jun 2020 16:04

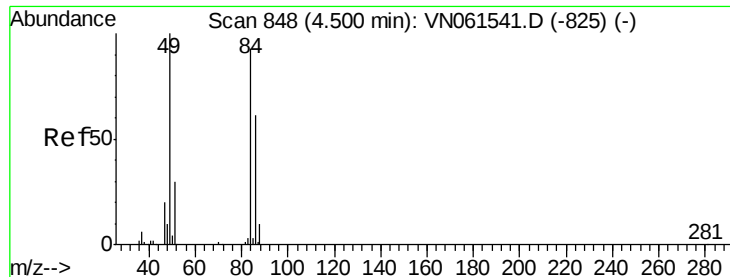
Tgt Ion: 43 Resp: 7745

Ion Ratio Lower Upper

43 100

74 0.0 23.2 34.8#

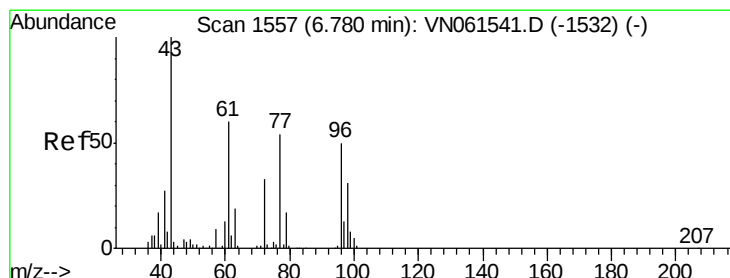
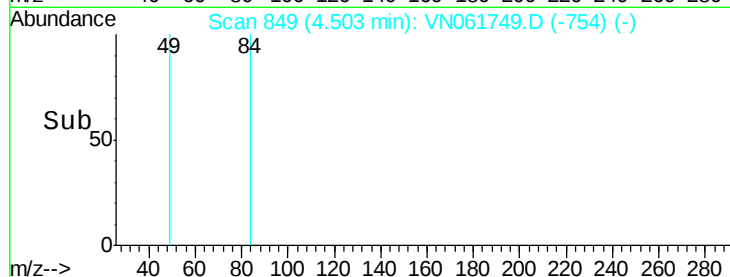
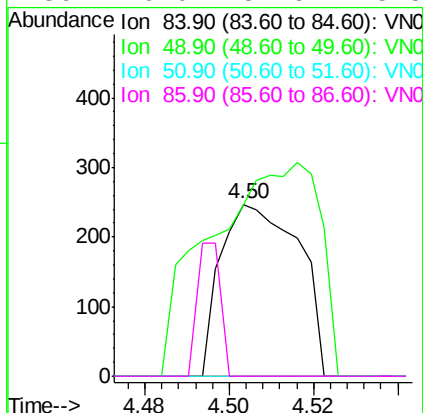
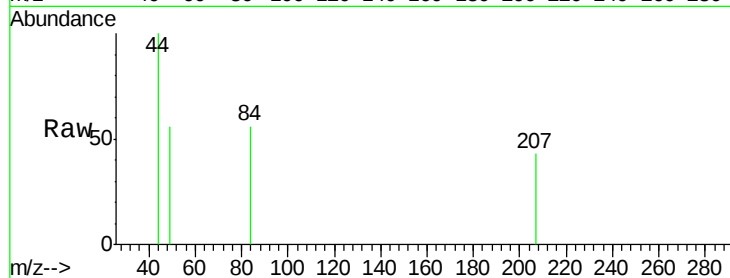




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061749.D
Acq: 11 Jun 2020 16:04

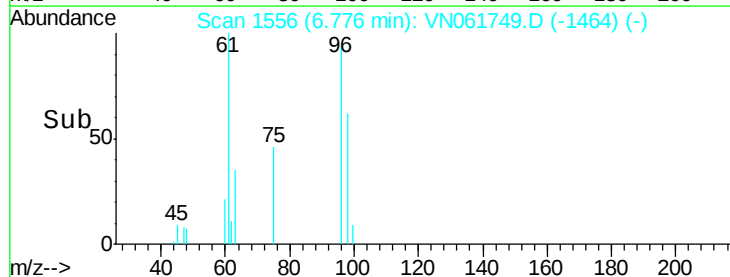
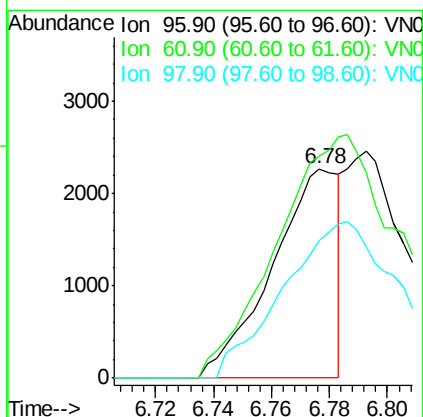
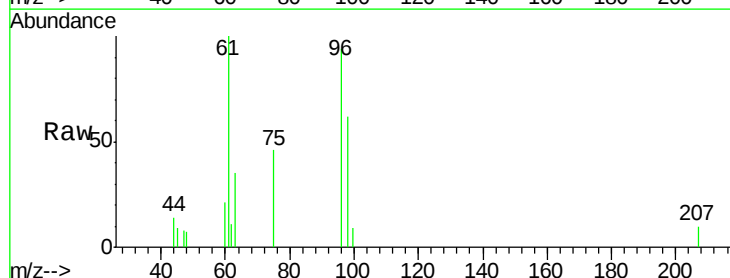
Instrument :
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RE134D2-20200608

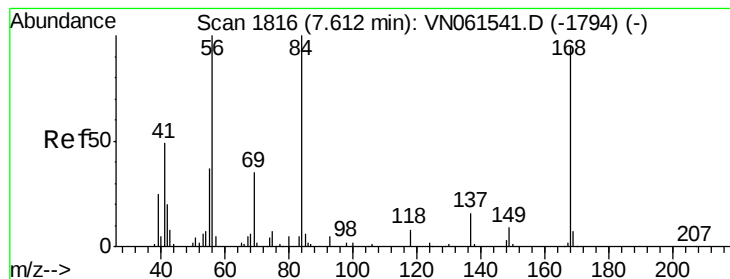
Tot Ion: 84 Resp: 317
Ion Ratio Lower Upper
84 100
49 99.6 85.8 128.8
51 0.0 26.2 39.2#
86 0.0 52.6 78.8#



#27
cis-1,2-Dichloroethene
Concen: 0.947 ug/l
RT: 6.78 min Scan# 1556
Delta R.T. -0.00 min
Lab File: VN061749.D
Acq: 11 Jun 2020 16:04

Tgt Ion: 96 Resp: 3612
Ion Ratio Lower Upper
96 100
61 209.9 0.0 252.2
98 127.9 0.0 129.2





#31

Cyclohexane

Concen: 1.004 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200608

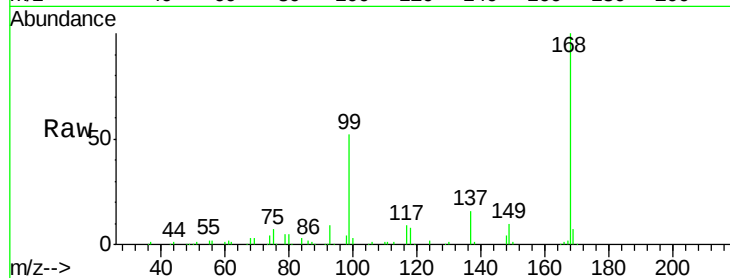
Tot Ion: 56 Resp: 4928

Ion Ratio Lower Upper

56 100

69 172.0 27.8 41.8#

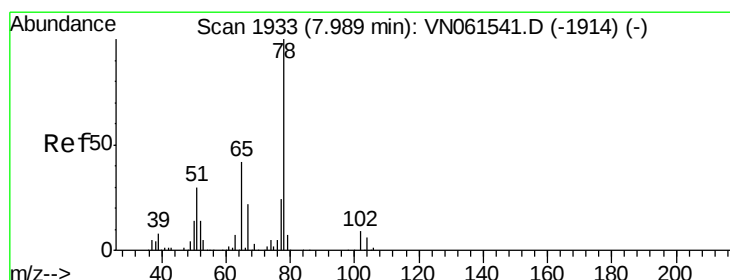
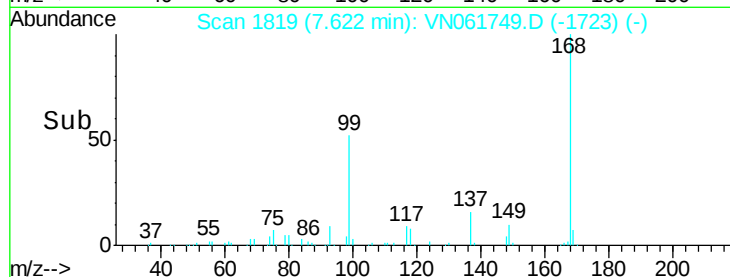
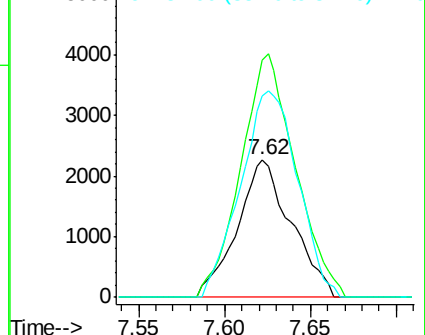
84 146.6 79.9 119.9#



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: 46.390 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061749.D

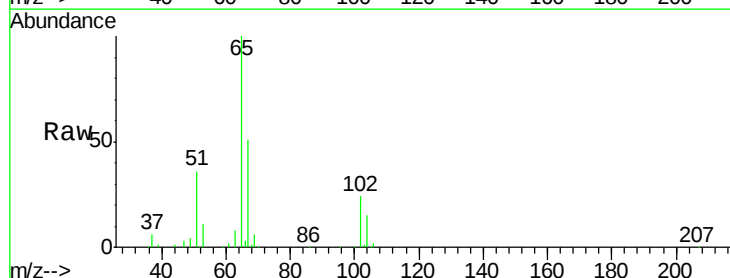
Acq: 11 Jun 2020 16:04

Tgt Ion: 65 Resp: 161579

Ion Ratio Lower Upper

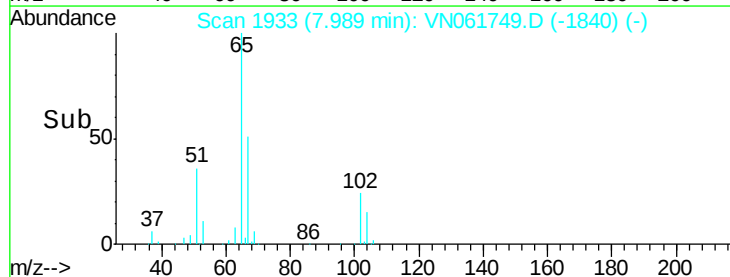
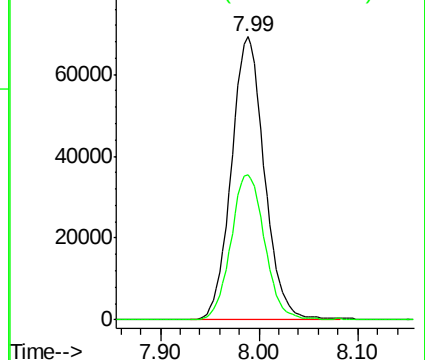
65 100

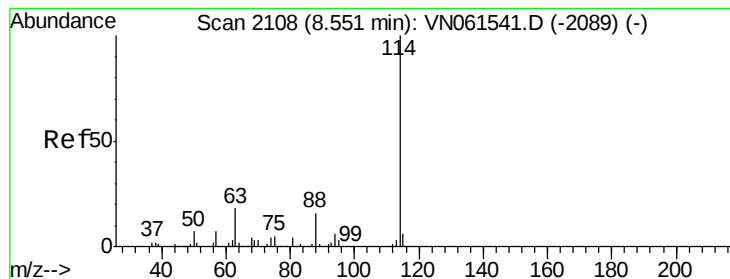
67 52.3 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200608

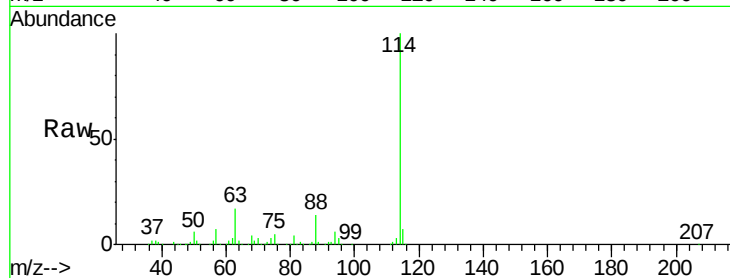
Tot Ion:114 Resp: 487489

Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.8

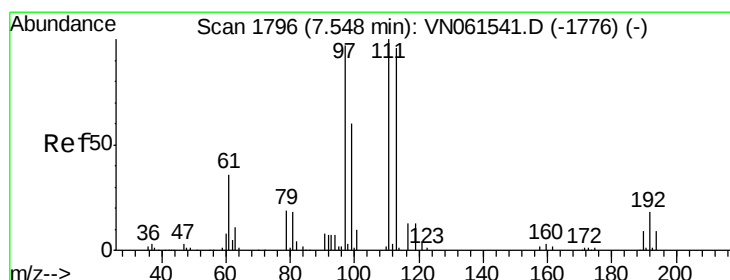
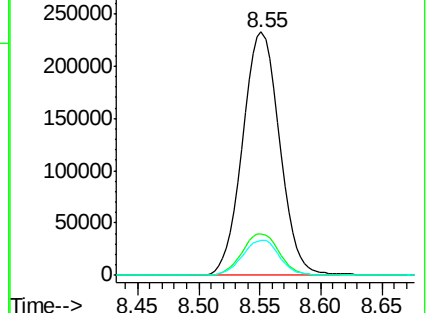
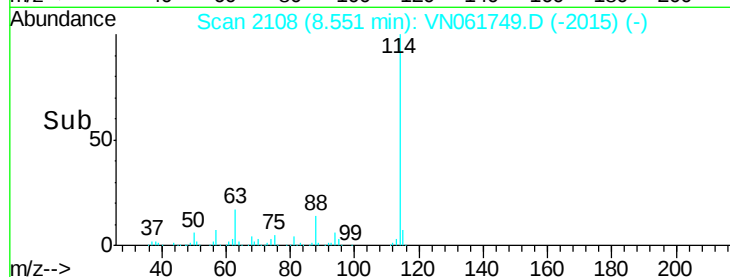
88 14.4 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 54.358 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

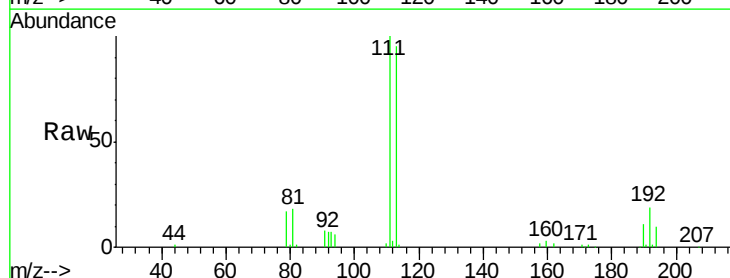
Tgt Ion:113 Resp: 134425

Ion Ratio Lower Upper

113 100

111 102.2 83.4 125.0

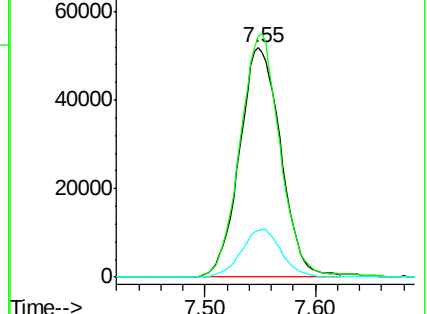
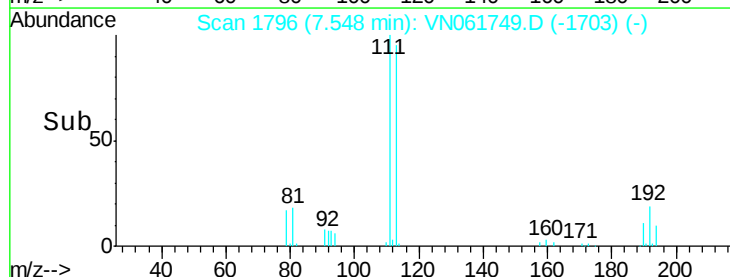
192 20.1 15.4 23.2

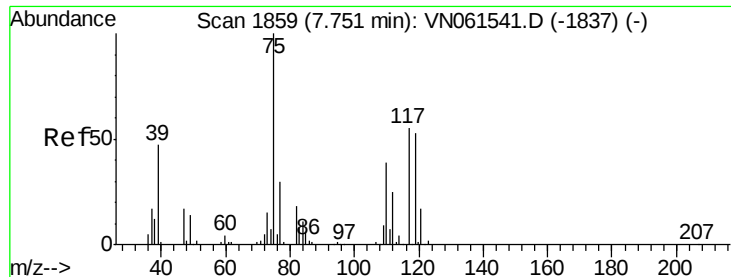


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

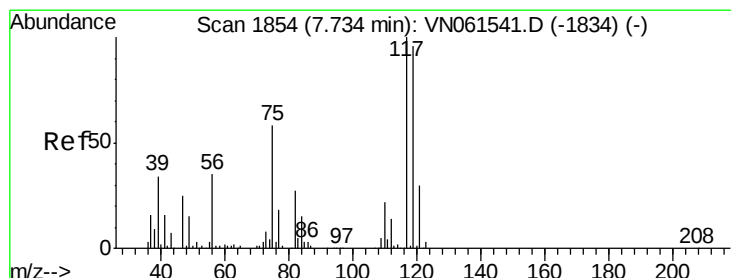
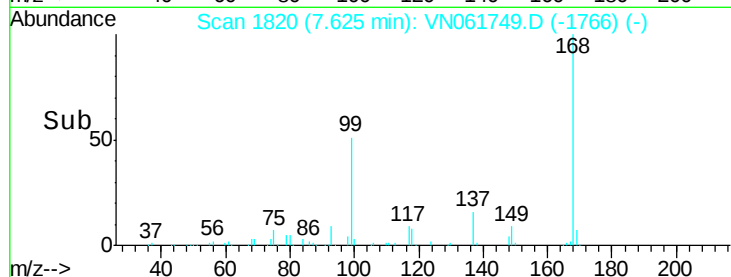
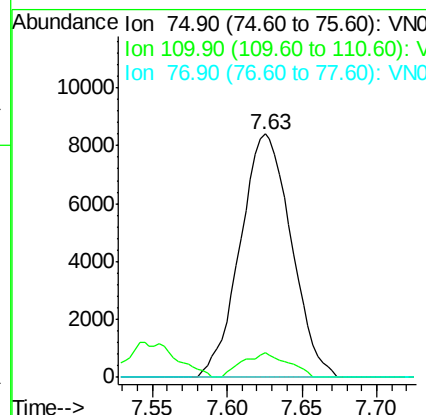
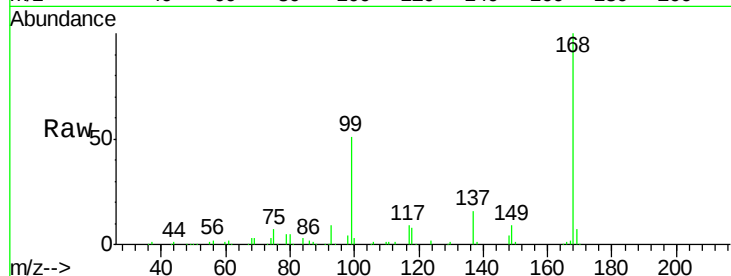




#36
 1,1-Dichloropropene
 Concen: 4.608 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061749.D
 Acq: 11 Jun 2020 16:04

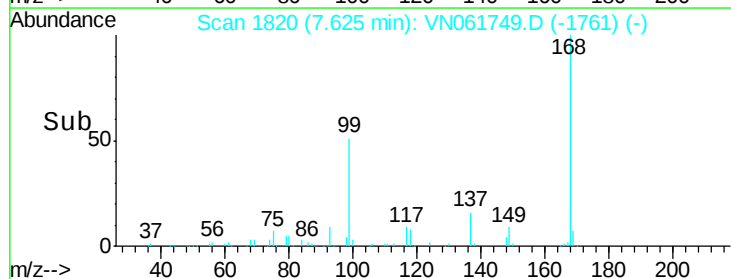
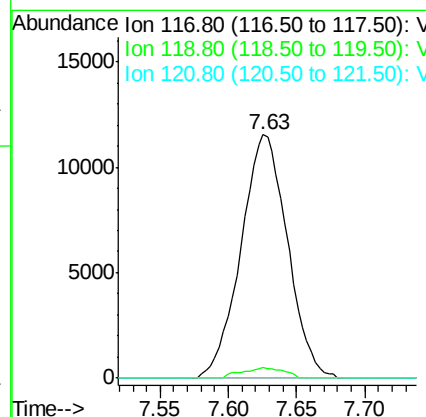
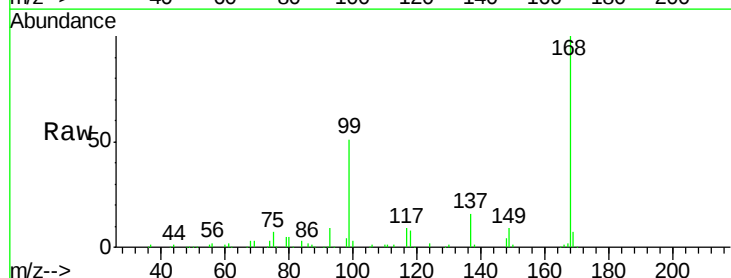
Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D2-20200608

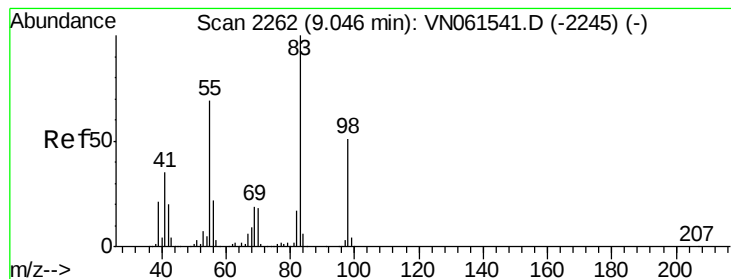
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.1	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.564 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061749.D
 Acq: 11 Jun 2020 16:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.2	76.5	114.7#
121	0.0	24.1	36.1#

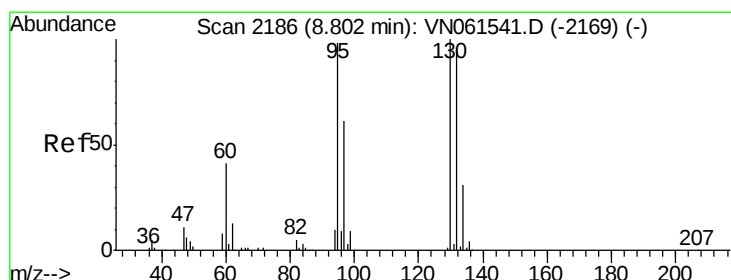
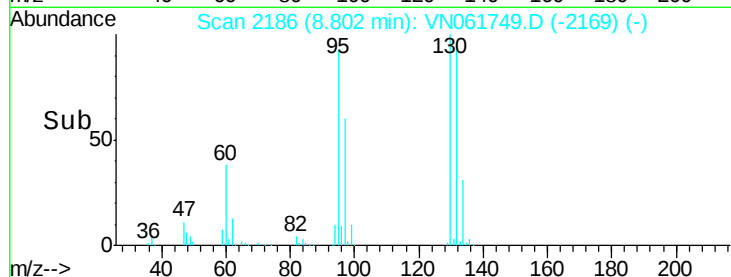
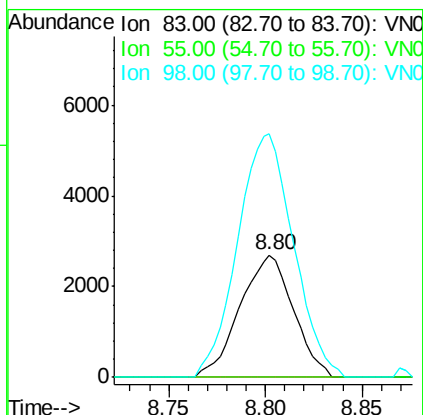
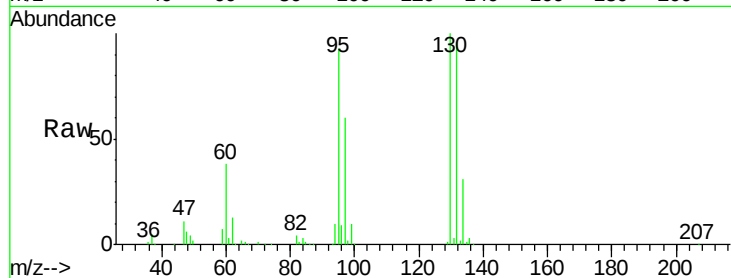




#39
Methvlcvclohexane
Concen: 0.972 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN061749.D
Acq: 11 Jun 2020 16:04

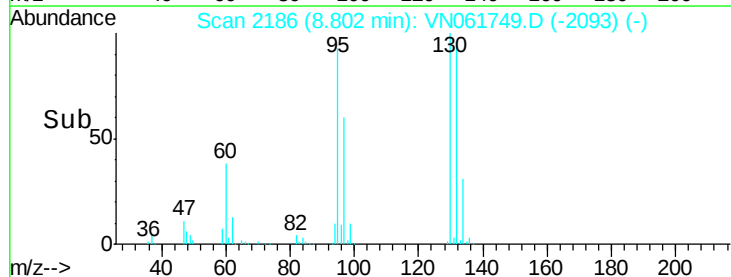
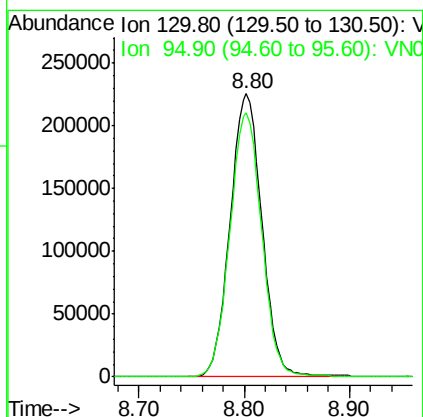
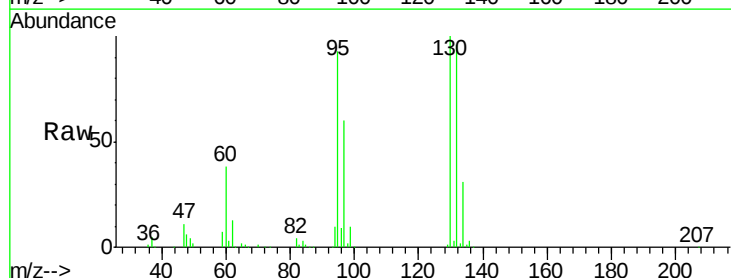
Instrument :
MSVOA_N
ClientSampleId :
RE134D2-20200608

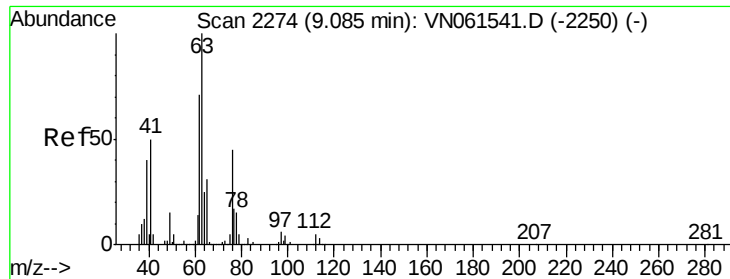
Tot Ion: 83 Resp: 5170
Ion Ratio Lower Upper
83 100
55 0.0 54.9 82.3#
98 199.1 41.0 61.4#



#44
Trichloroethene
Concen: 114.943 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VN061749.D
Acq: 11 Jun 2020 16:04

Tgt Ion:130 Resp: 470363
Ion Ratio Lower Upper
130 100
95 93.2 0.0 196.6





#45

1,2-Dichloropropane

Concen: 0.250 ug/l

RT: 8.81 min Scan# 2188

Delta R.T. -0.28 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

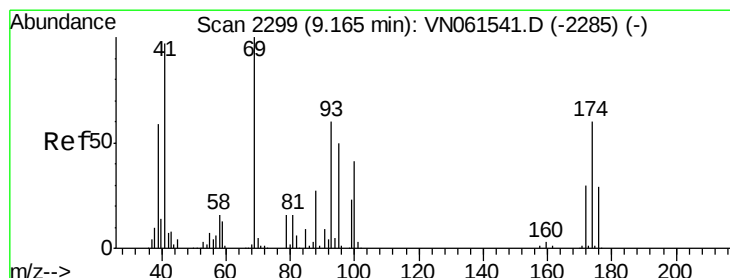
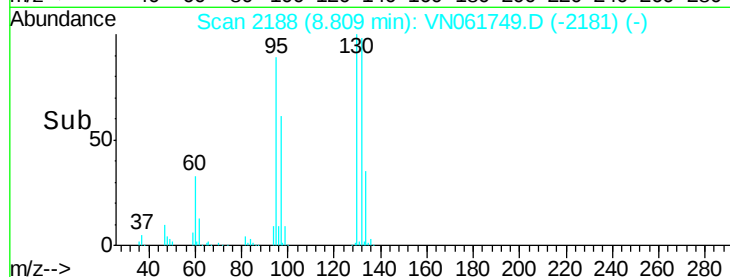
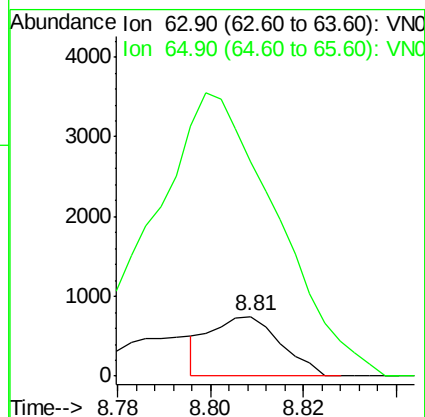
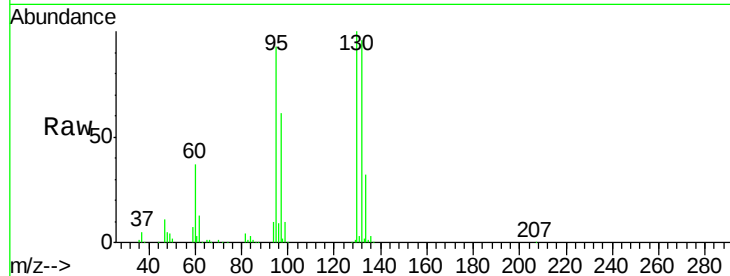
RE134D2-20200608

Tot Ion: 63 Resp: 790

Ion Ratio Lower Upper

63 100

65 298.0 24.7 37.1#



#49

1,4-Dioxane

Concen: 16.588 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.00 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

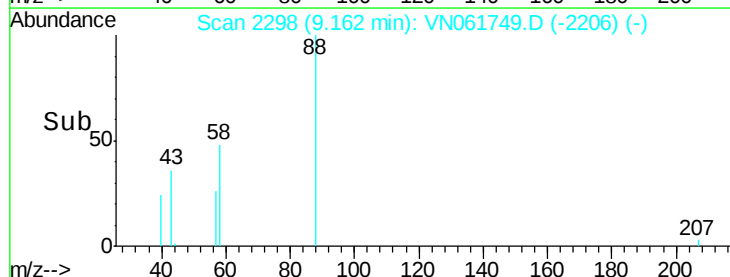
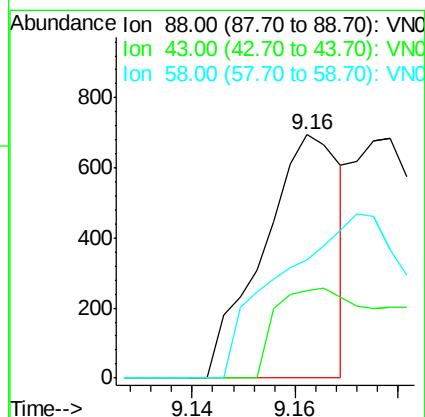
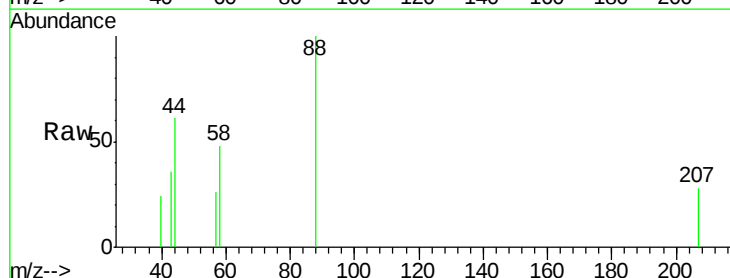
Tgt Ion: 88 Resp: 723

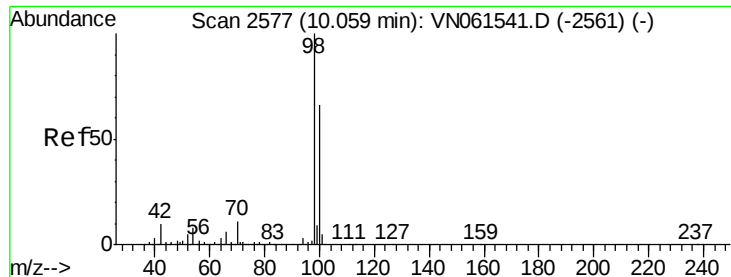
Ion Ratio Lower Upper

88 100

43 66.1 23.1 34.7#

58 126.6 48.3 72.5#





#50

Toluene-d8

Concen: 51.327 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

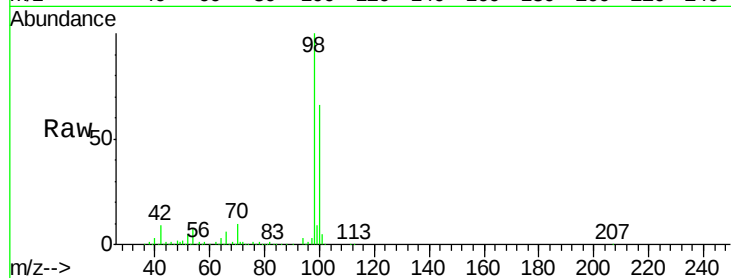
RE134D2-20200608

Tot Ion: 98 Resp: 588207

Ion Ratio Lower Upper

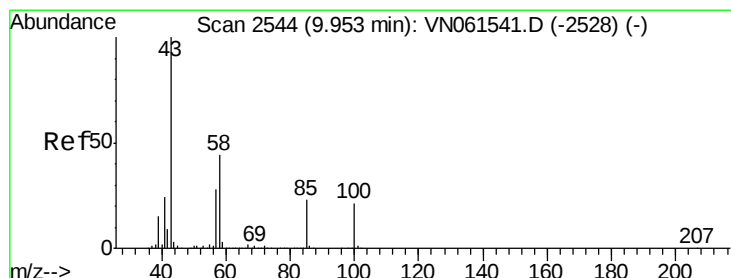
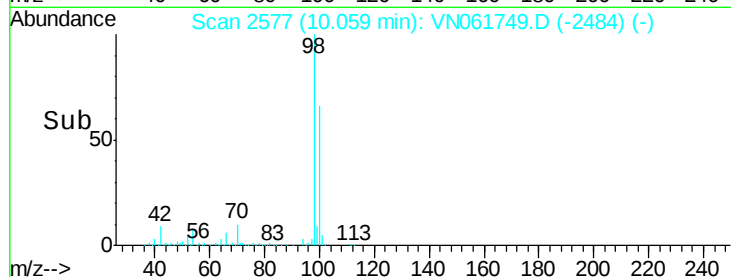
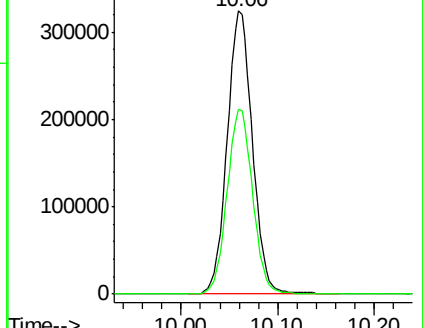
98 100

100 66.0 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061541.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.585 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061749.D

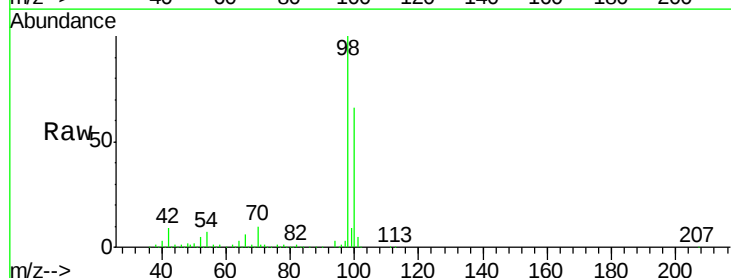
Acq: 11 Jun 2020 16:04

Tgt Ion: 43 Resp: 2063

Ion Ratio Lower Upper

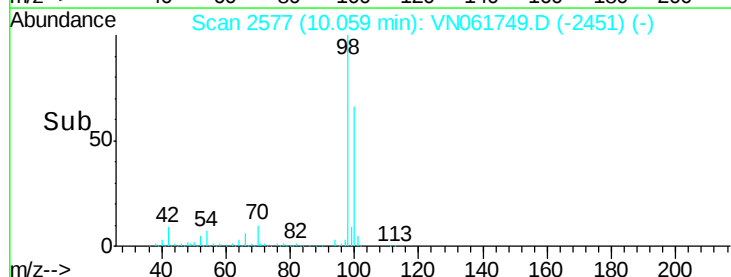
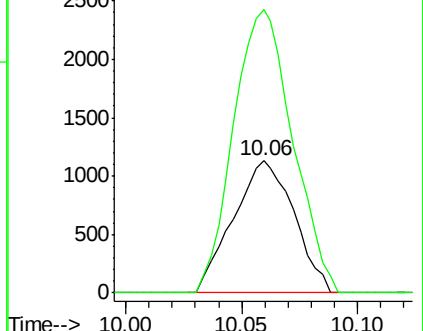
43 100

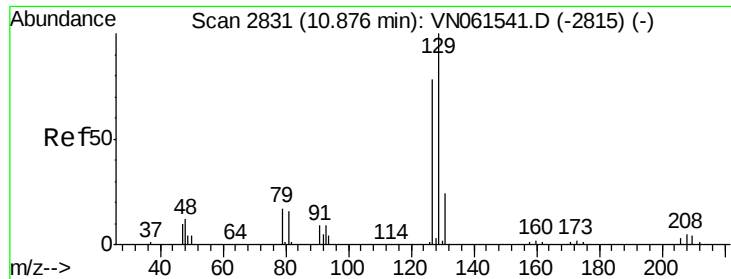
58 208.0 35.0 52.6#



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: 13.887 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

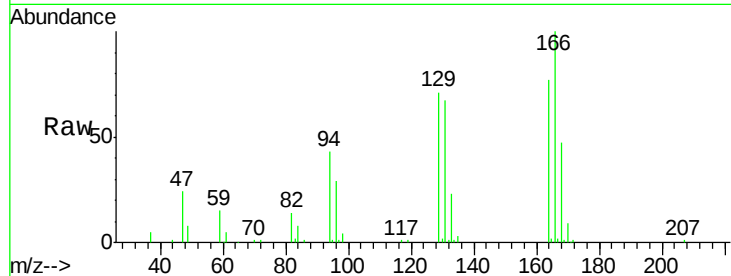
RE134D2-20200608

Tot Ion:129 Resp: 54663

Ion Ratio Lower Upper

129 100

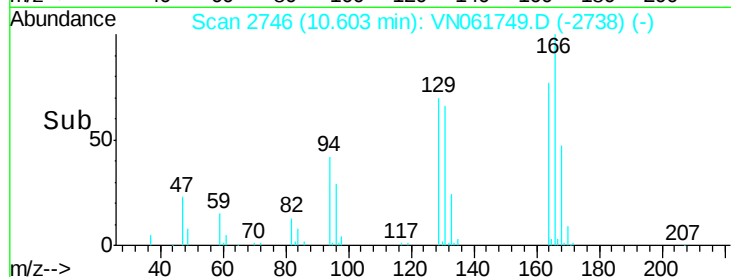
127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.60



Abundance

10.60

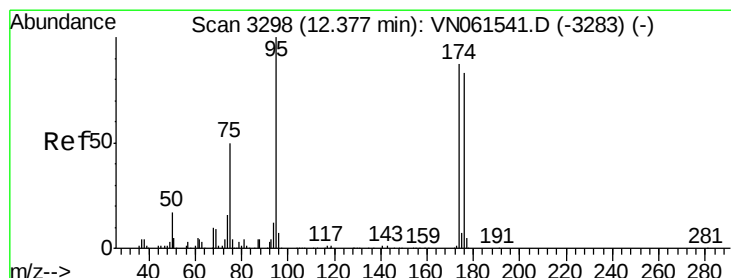
30000

20000

10000

0

Time--> 10.55 10.60 10.65



#62

4-Bromofluorobenzene

Concen: 49.004 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

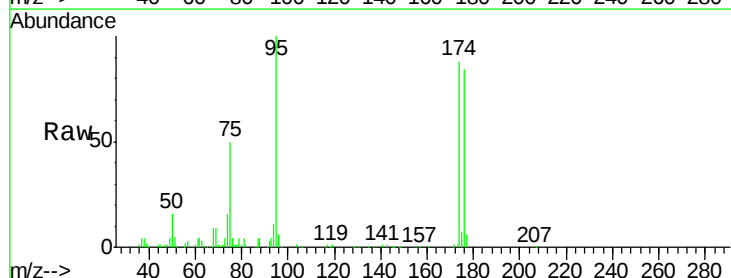
Tgt Ion: 95 Resp: 204883

Ion Ratio Lower Upper

95 100

174 87.4 0.0 172.8

176 83.9 0.0 164.8

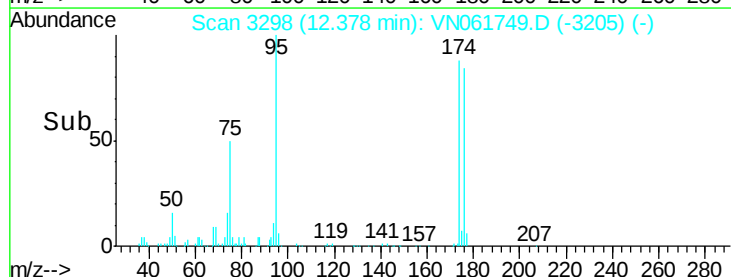


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.38



Abundance

12.38

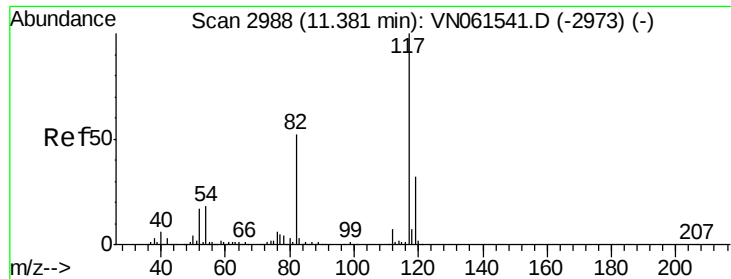
150000

100000

50000

0

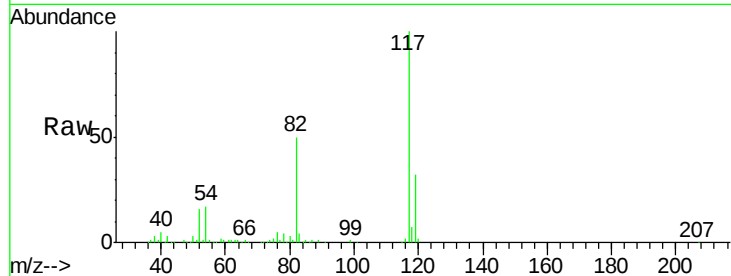
Time--> 12.30 12.40 12.50



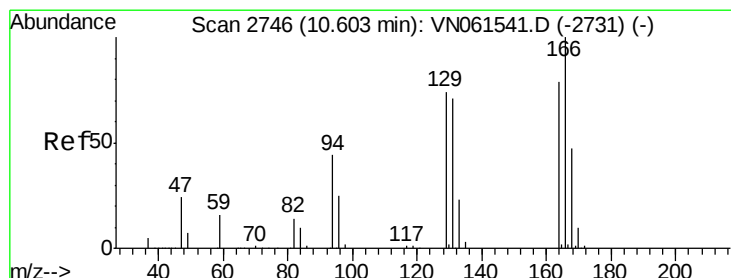
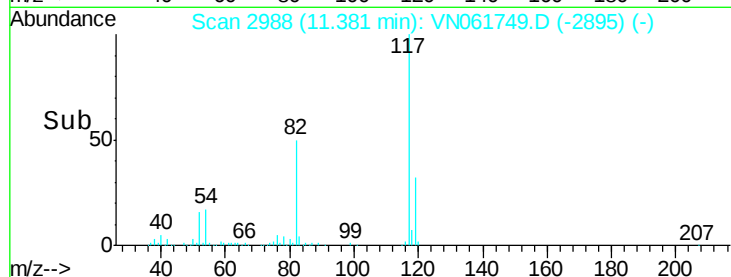
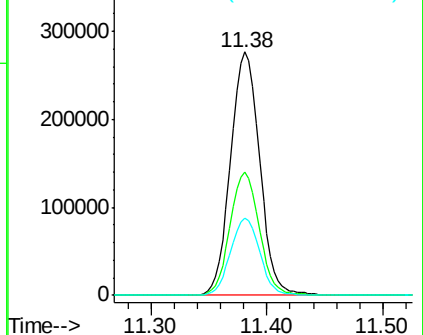
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061749.D
Acq: 11 Jun 2020 16:04

Instrument :
MSVOA_N
ClientSampleId :
RE134D2-20200608

Tot Ion:117 Resp: 484343
Ion Ratio Lower Upper
117 100
82 50.5 41.5 62.3
119 31.6 25.6 38.4

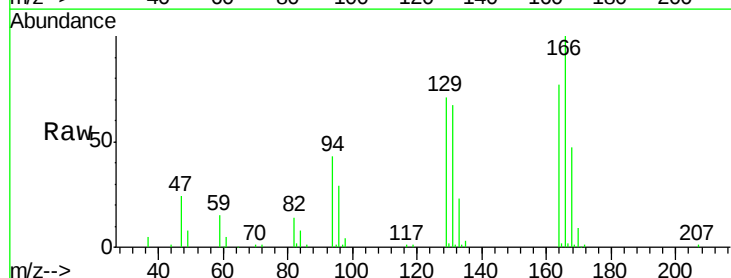


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

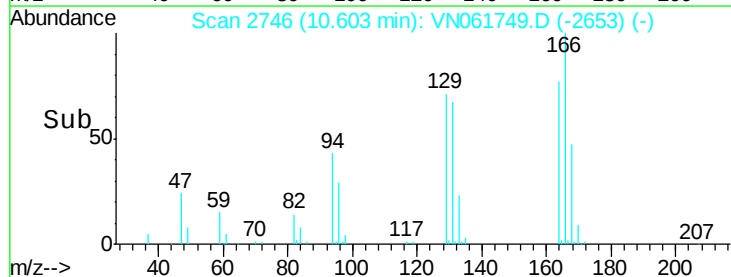
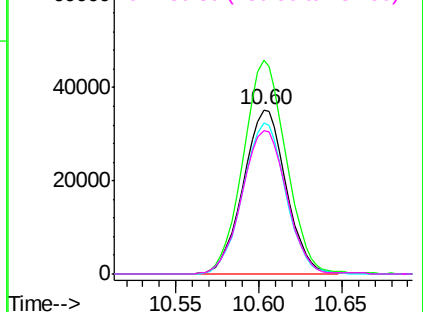


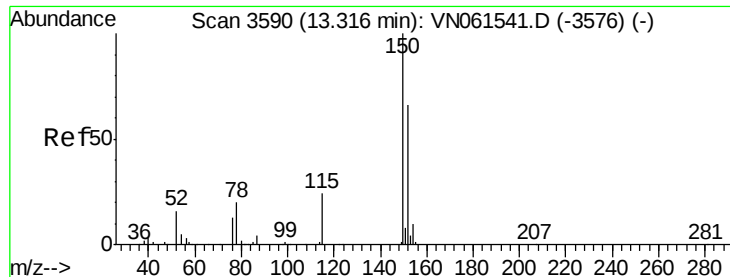
#64
Tetrachloroethene
Concen: 13.880 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN061749.D
Acq: 11 Jun 2020 16:04

Tgt Ion:164 Resp: 63282
Ion Ratio Lower Upper
164 100
166 130.2 101.5 152.3
129 91.8 74.9 112.3
131 87.5 72.2 108.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200608

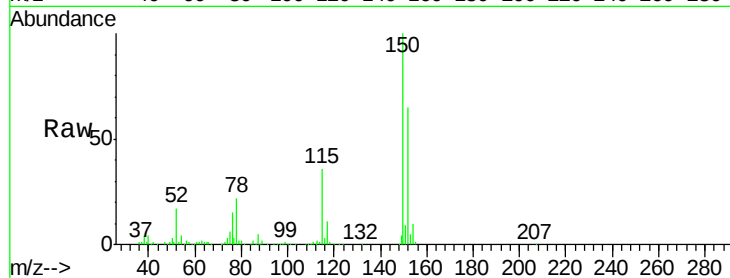
Tot Ion:152 Resp: 212635

Ion Ratio Lower Upper

152 100

115 55.7 28.0 84.0

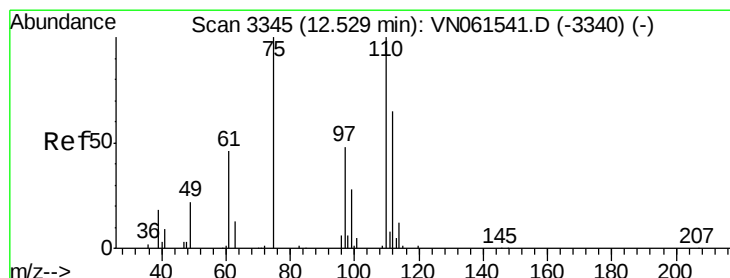
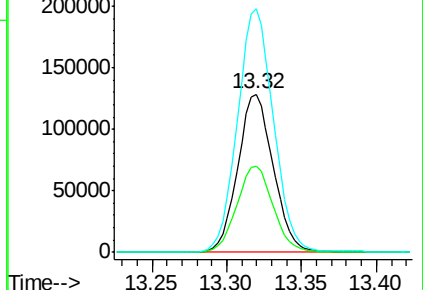
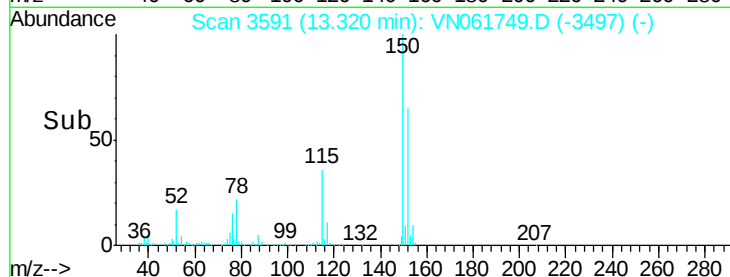
150 156.2 0.0 344.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.827 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061749.D

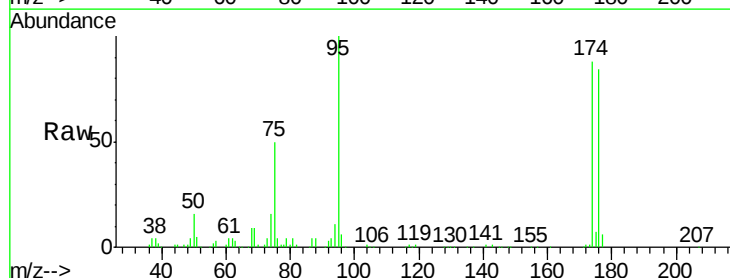
Acq: 11 Jun 2020 16:04

Tgt Ion: 75 Resp: 99859

Ion Ratio Lower Upper

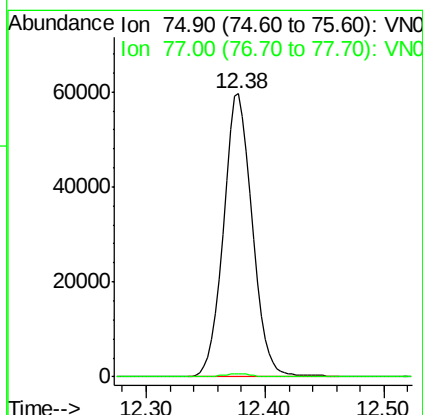
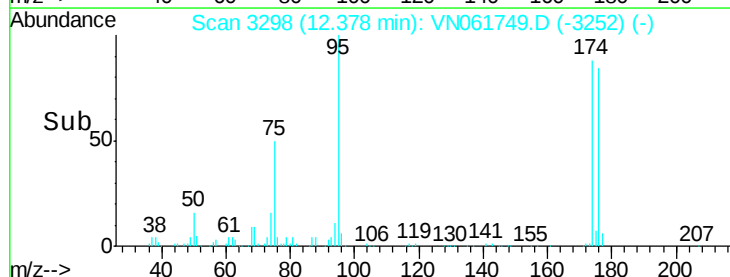
75 100

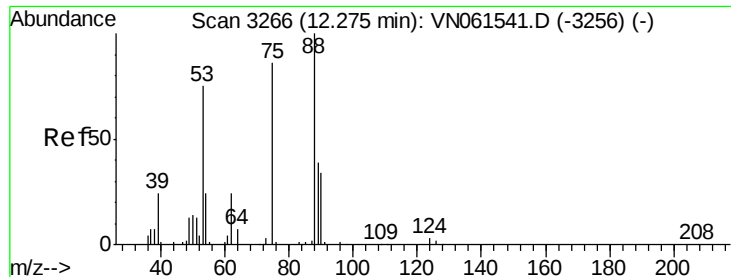
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 66.045 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061749.D

Acq: 11 Jun 2020 16:04

Instrument :

MSVOA_N

ClientSampleId :

RE134D2-20200608

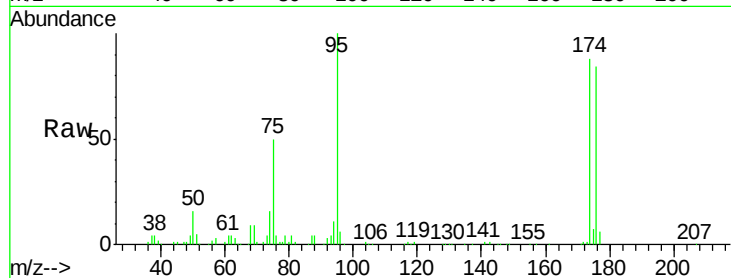
Tot Ion: 75 Resp: 99859

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

