

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055883.D
 Acq On : 29 May 2019 17:28
 Operator : JC/SP
 Sample : K3082-03 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

Quant Time: May 30 03:41:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	52383	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	276037	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	222274	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	106364	31.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.53%
60) 4-Bromofluorobenzene	12.40	95	79165	22.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.33%
63) Toluene-d8	10.09	98	322228	31.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.73%

Target Compounds

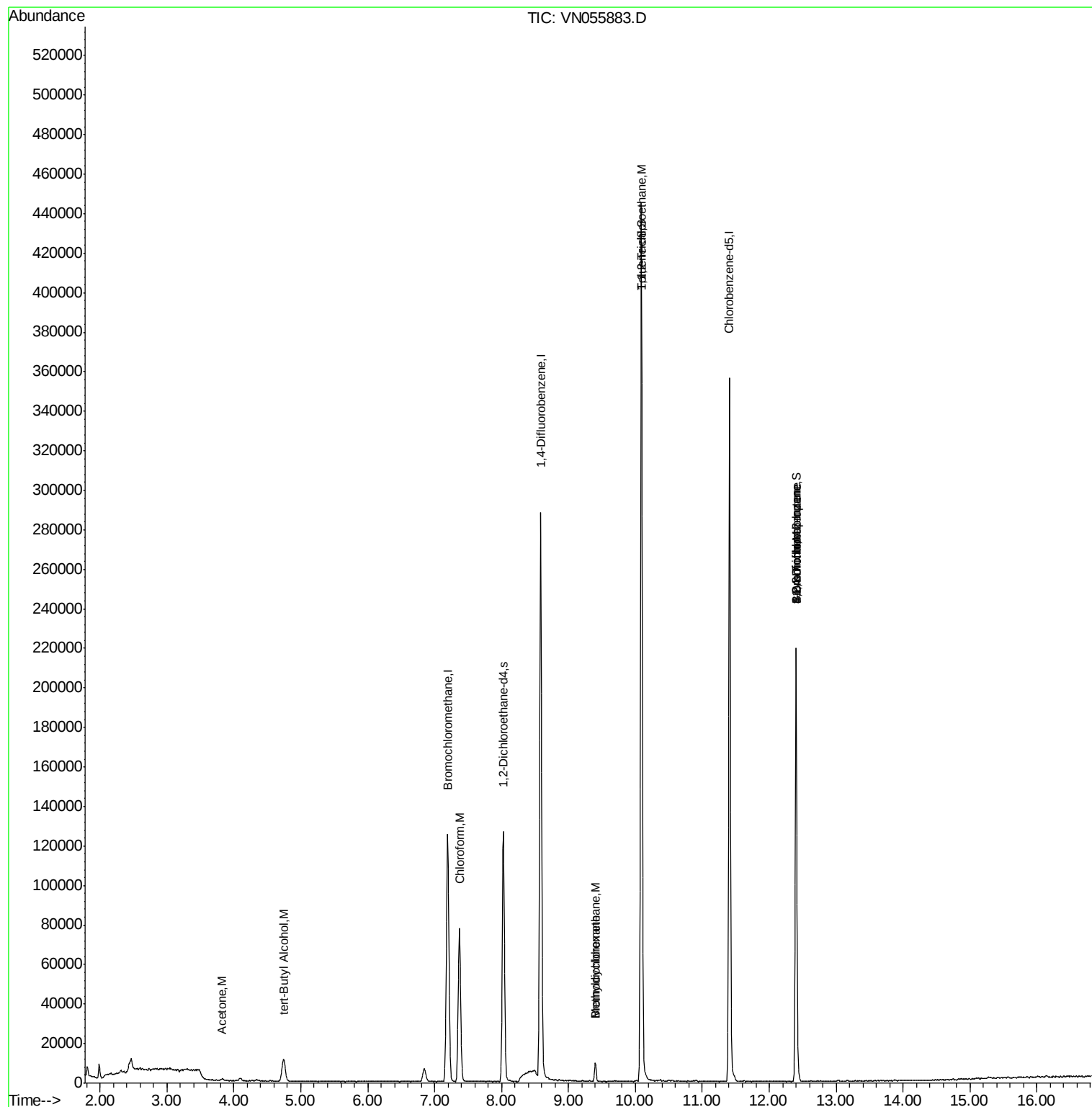
					Ovalue	
15) Acetone	3.82	58	135	0.282	ug/l #	8
23) tert-Butyl Alcohol	4.74	59	11294	16.680	ug/l #	100
25) Chloroform	7.37	83	84409	15.653	ug/l	100
38) Methylcyclohexane	9.40	83	6727	1.374	ug/l #	19
41) Bromodichloromethane	9.40	83	6727	1.585	ug/l	97
50) 1,1,2-Trichloroethane	10.10	97	9851	3.267	ug/l #	1
56) Bromoform	12.40	173	596	0.204	ug/l #	1
72) 1,2,3-Trichloropropane	12.40	75	36758	10.804	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	36758	27.199	ug/l #	17

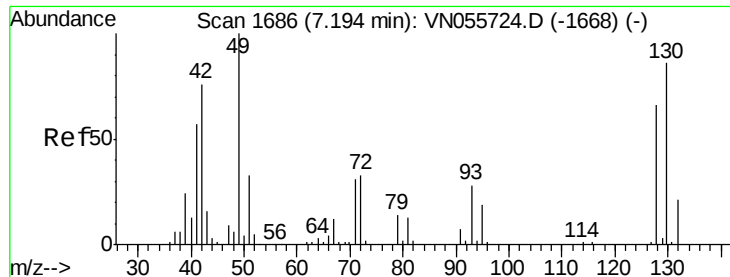
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
14B-3

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QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN055883.D

Acq: 29 May 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

14B-3

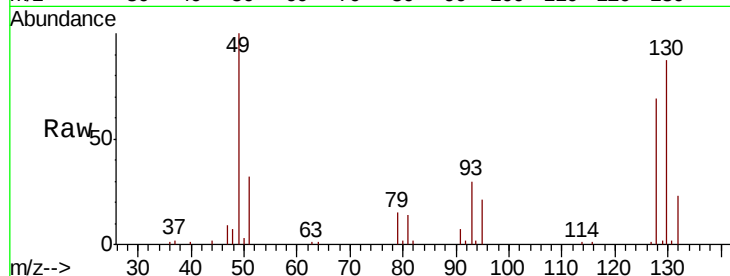
Tot Ion:128 Resp: 52383

Ion Ratio Lower Upper

128 100

49 145.3 0.0 383.2

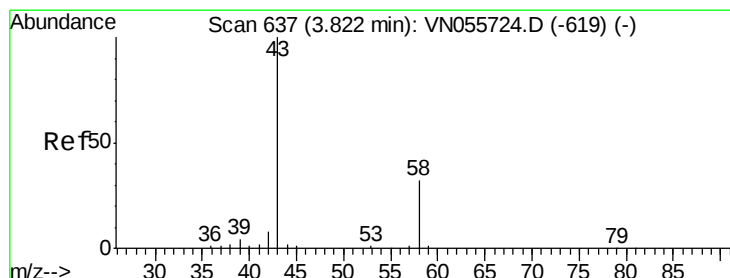
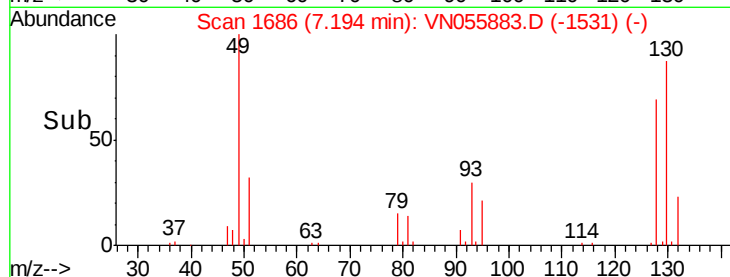
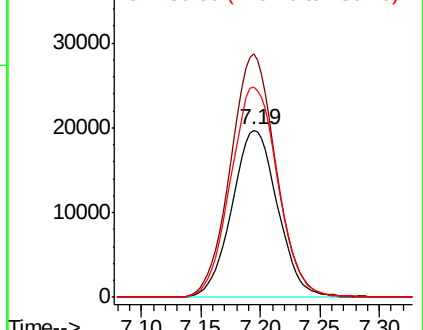
130 130.5 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 0.282 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN055883.D

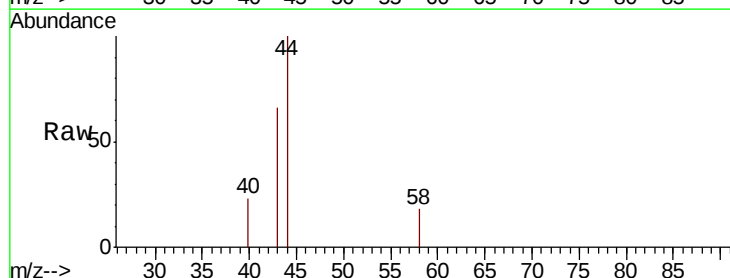
Acq: 29 May 2019 17:28

Tgt Ion: 58 Resp: 135

Ion Ratio Lower Upper

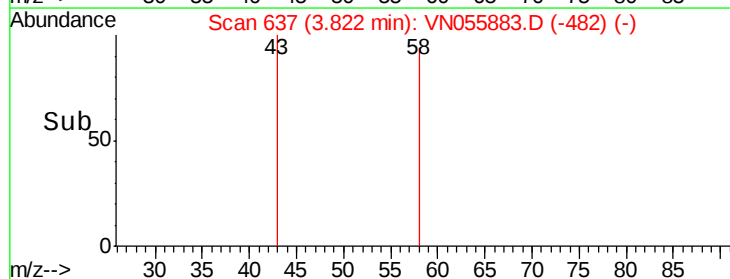
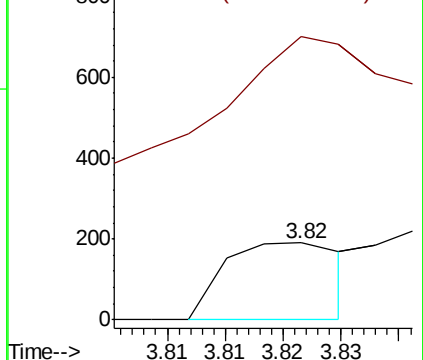
58 100

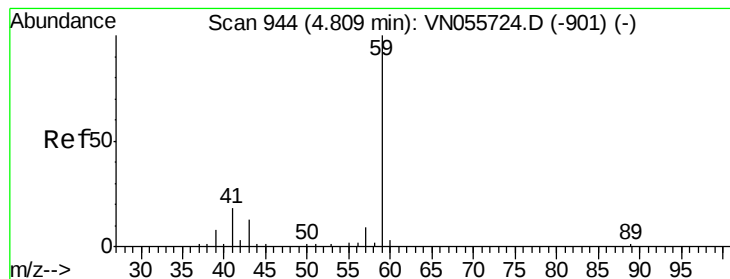
43 126.8 248.8 373.2#



Abundance Ion 58.00 (57.70 to 58.70): VN

Ion 43.00 (42.70 to 43.70): VN





#23

tert-Butyl Alcohol

Concen: 16.680 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055883.D

Acq: 29 May 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

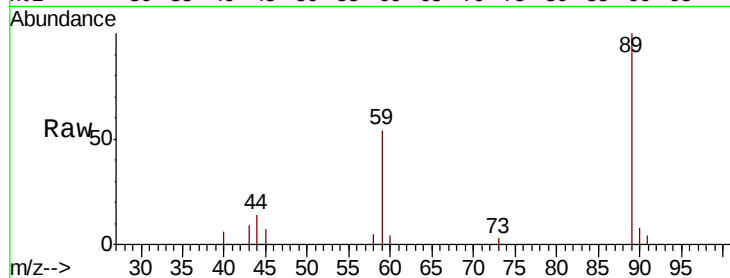
14B-3

Tot Ion: 59 Resp: 11294

Ion Ratio Lower Upper

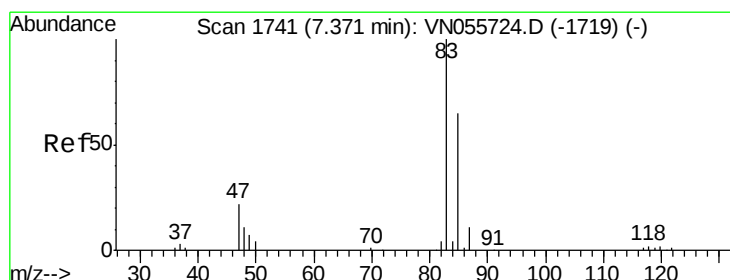
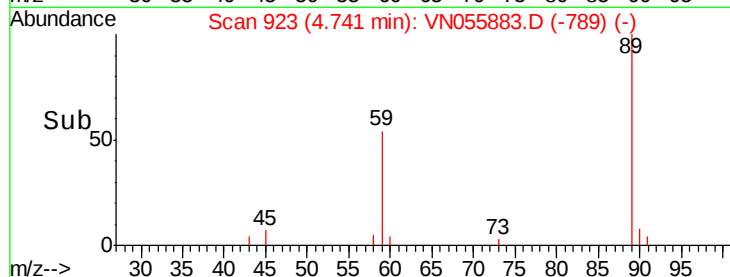
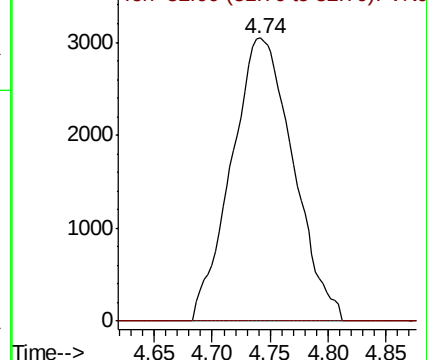
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#25

Chloroform

Concen: 15.653 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN055883.D

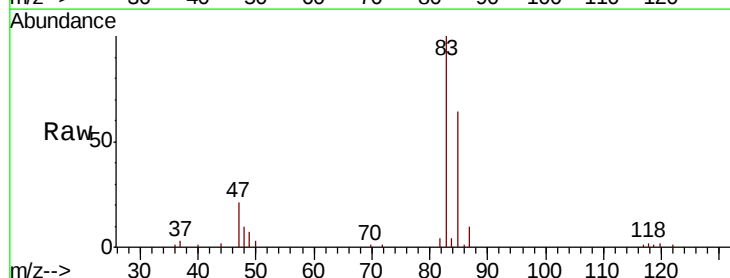
Acq: 29 May 2019 17:28

Tgt Ion: 83 Resp: 84409

Ion Ratio Lower Upper

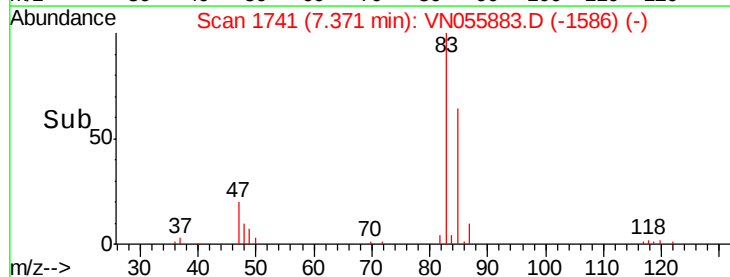
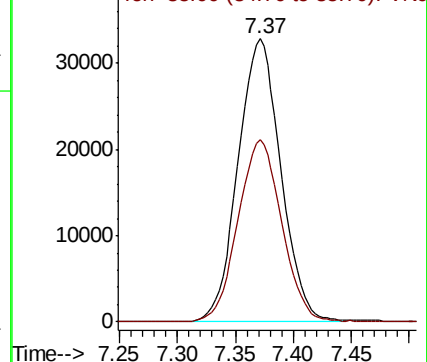
83 100

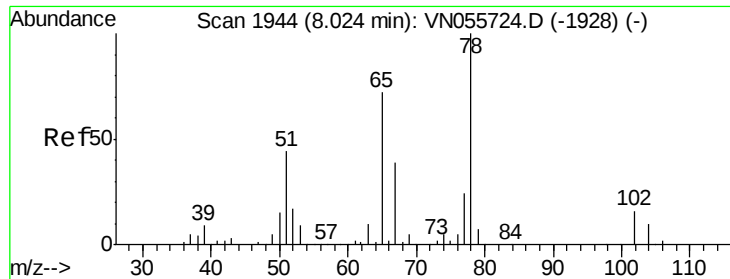
85 64.3 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 31.065 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055883.D

Acq: 29 May 2019 17:28

Instrument :

MSVOA_N

ClientSampled :

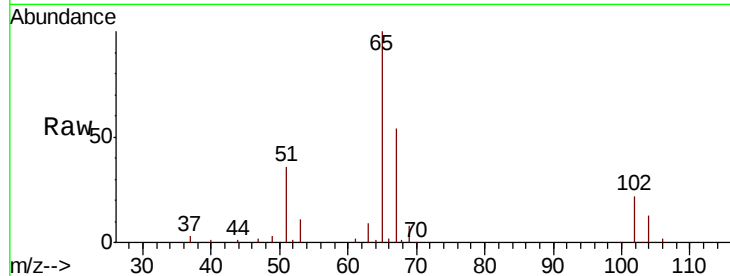
14B-3

Tot Ion: 65 Resp: 106364

Ion Ratio Lower Upper

65 100

67 54.7 43.5 65.3



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

8.03

50000

40000

30000

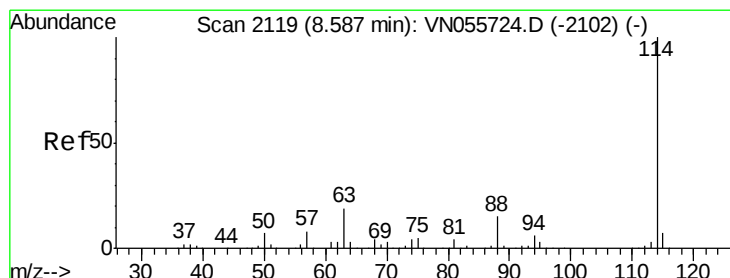
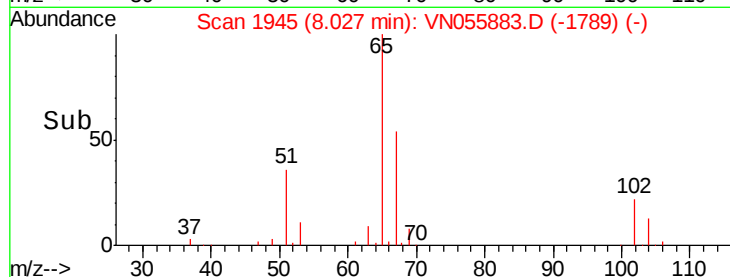
20000

10000

0

8.00 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN055883.D

Acq: 29 May 2019 17:28

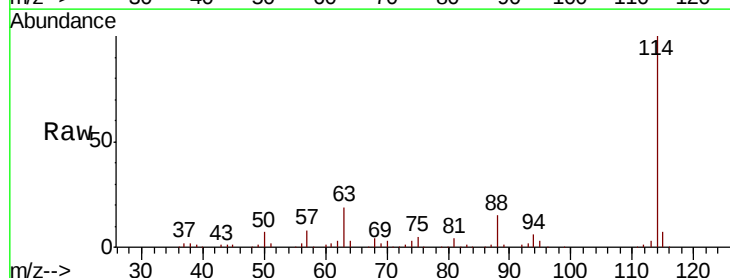
Tgt Ion: 114 Resp: 276037

Ion Ratio Lower Upper

114 100

63 19.3 15.6 23.4

88 15.1 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

150000

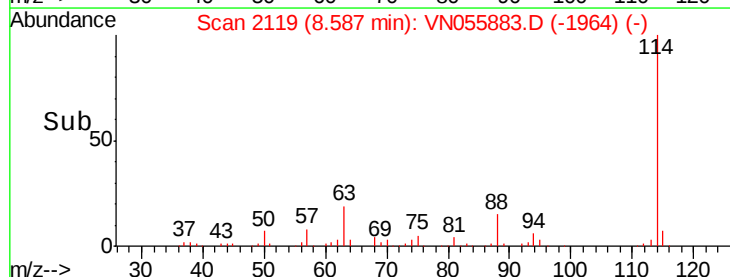
100000

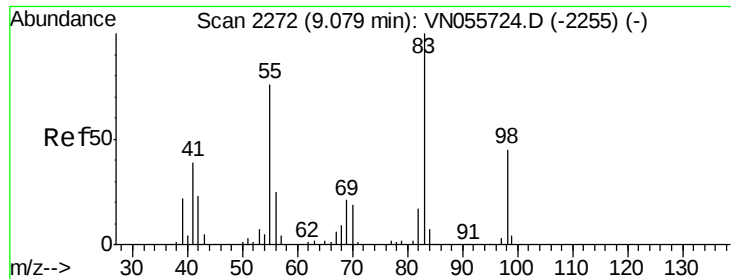
50000

0

8.50 8.60 8.70

Time-->

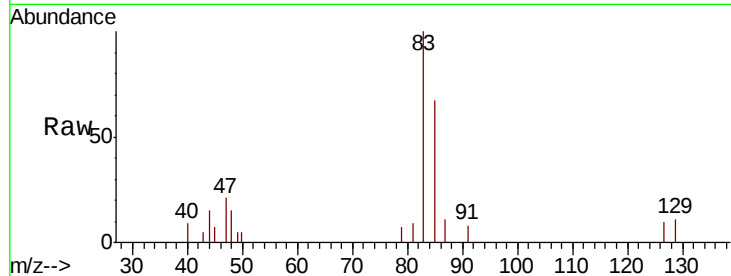




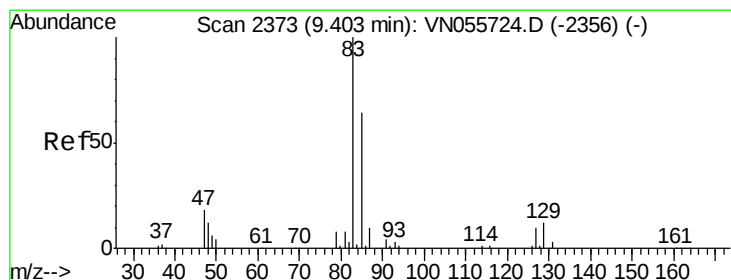
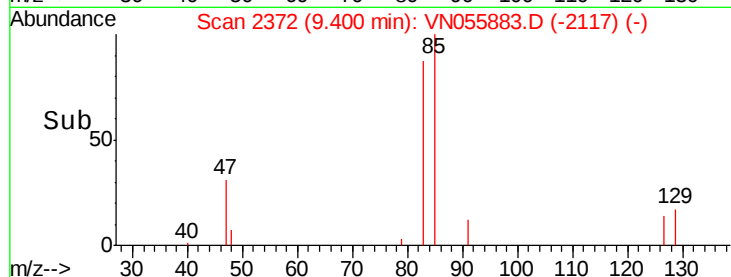
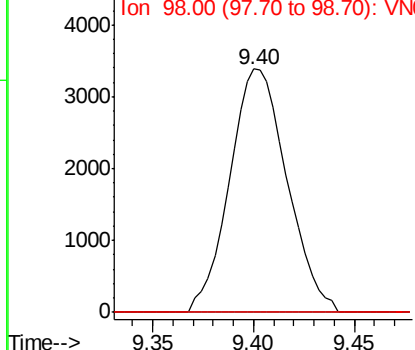
#38
Methylcyclohexane
Concen: 1.374 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. 0.32 min
Lab File: VN055883.D
Acq: 29 May 2019 17:28

Instrument :
MSVOA_N
ClientSampled :
14B-3

Tot Ion: 83 Resp: 6727
Ion Ratio Lower Upper
83 100
55 0.0 37.8 113.4#
98 0.0 22.6 67.8#

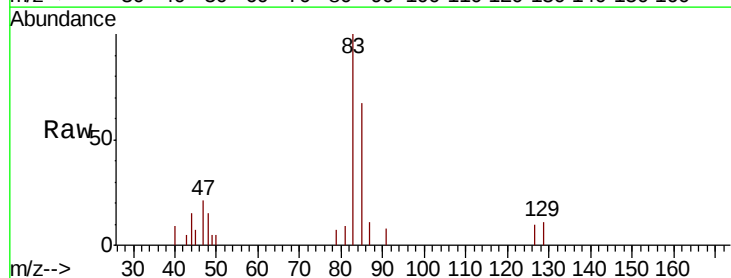


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

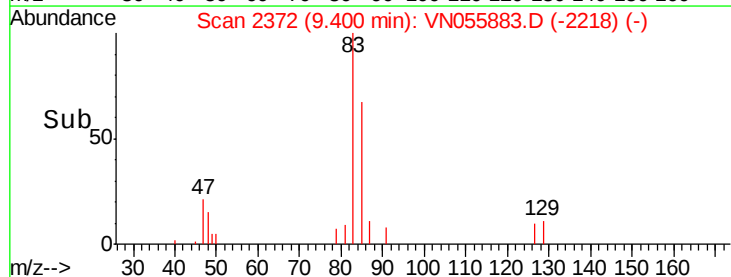
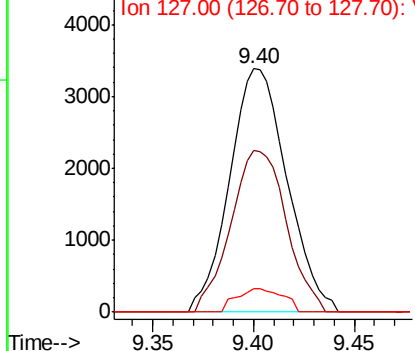


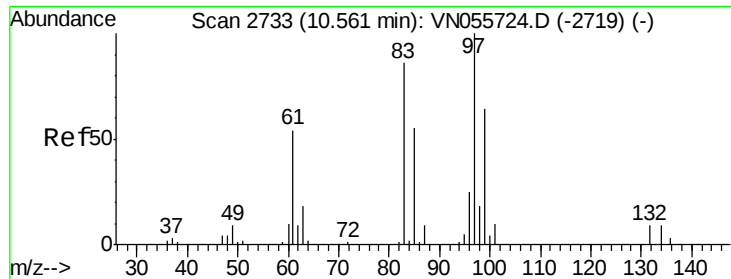
#41
Bromodichloromethane
Concen: 1.585 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN055883.D
Acq: 29 May 2019 17:28

Tgt Ion: 83 Resp: 6727
Ion Ratio Lower Upper
83 100
85 66.6 51.4 77.0
127 9.5 7.7 11.5



Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0
Ion 127.00 (126.70 to 127.70): V

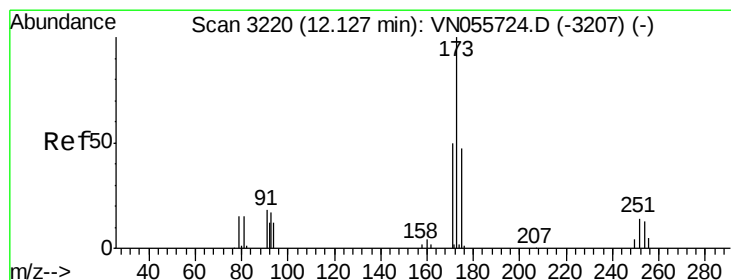
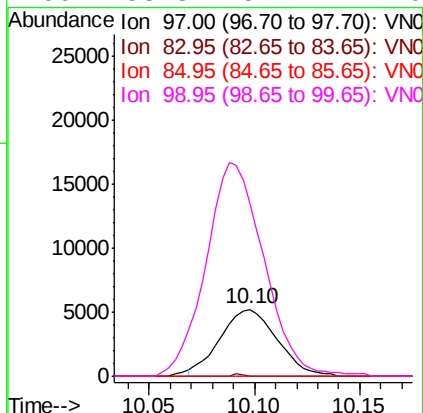
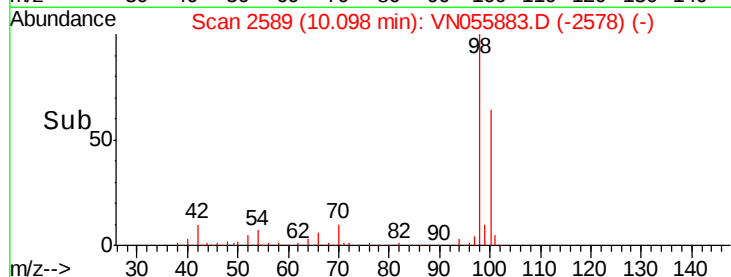
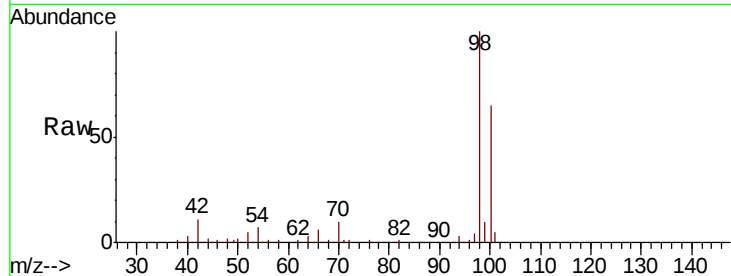




#50
 1,1,2-Trichloroethane
 Concen: 3.267 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.46 min
 Lab File: VN055883.D
 Acq: 29 May 2019 17:28

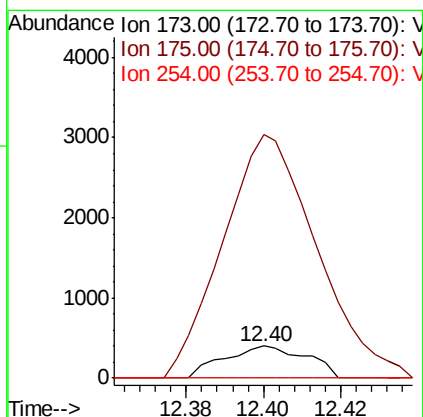
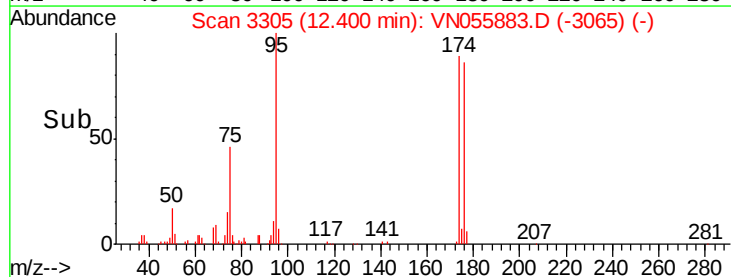
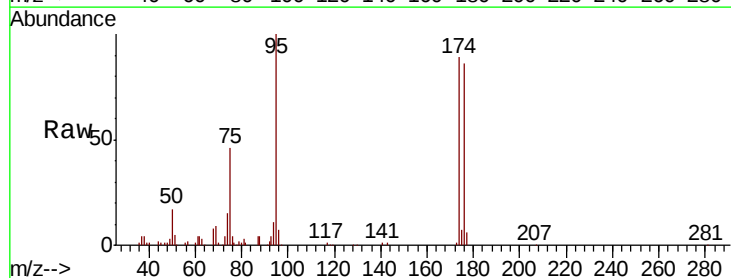
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

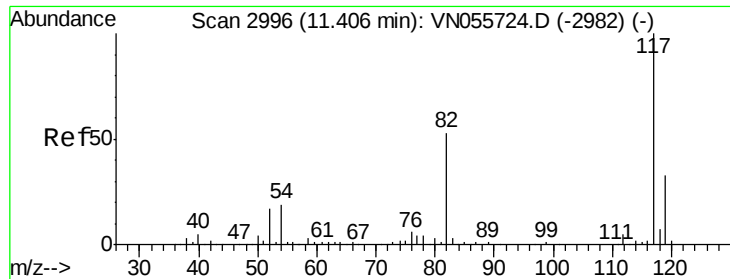
Tot Ion: 97 Resp: 9851
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.9 103.3#
 85 0.0 44.3 66.5#
 99 253.8 51.4 77.0#



#56
 Bromoform
 Concen: 0.204 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.27 min
 Lab File: VN055883.D
 Acq: 29 May 2019 17:28

Tgt Ion: 173 Resp: 596
 Ion Ratio Lower Upper
 173 100
 175 858.4 38.5 57.7#
 254 0.0 9.4 14.0#

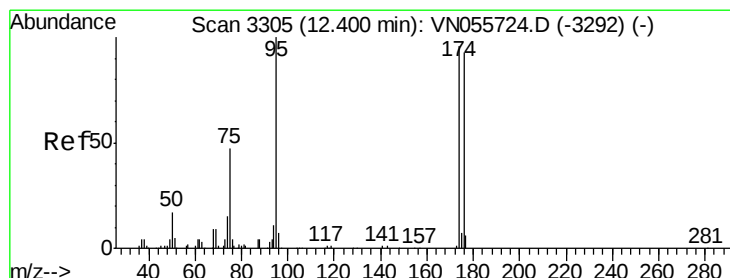
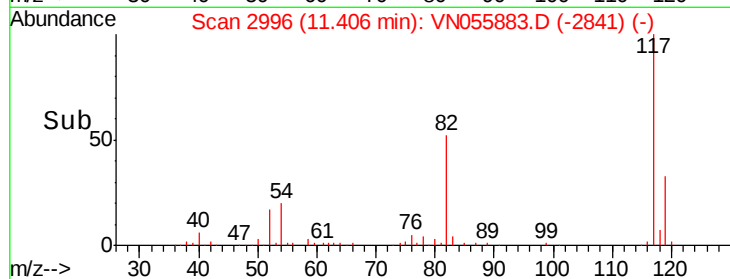
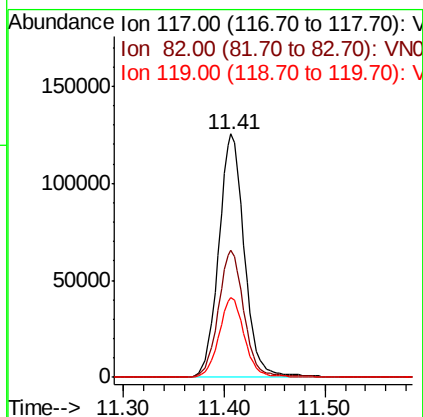
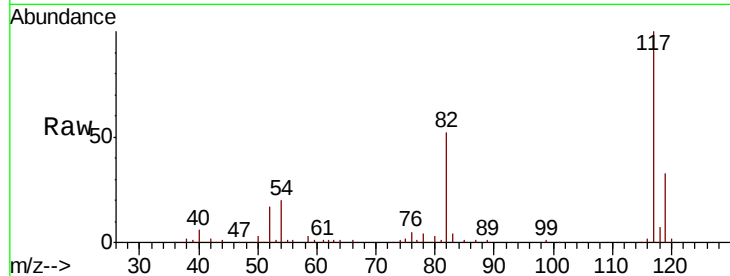




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055883.D
Acq: 29 May 2019 17:28

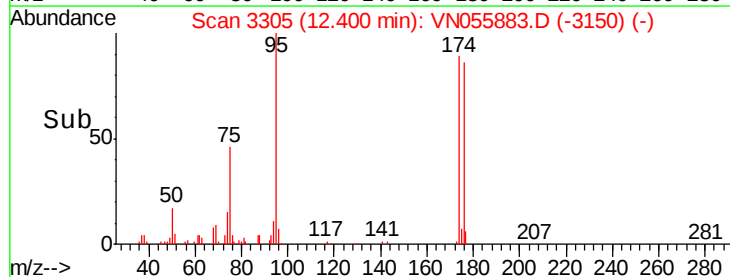
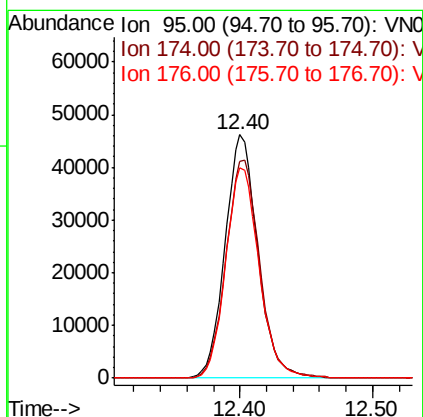
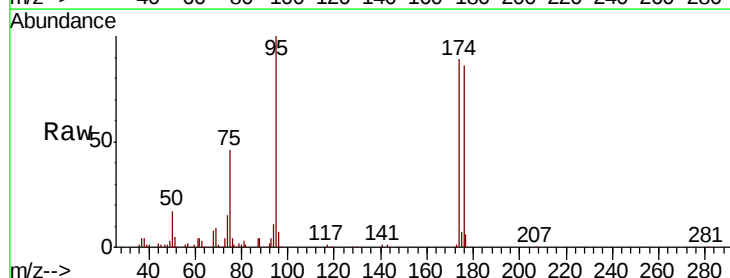
Instrument :
MSVOA_N
ClientSampleId :
14B-3

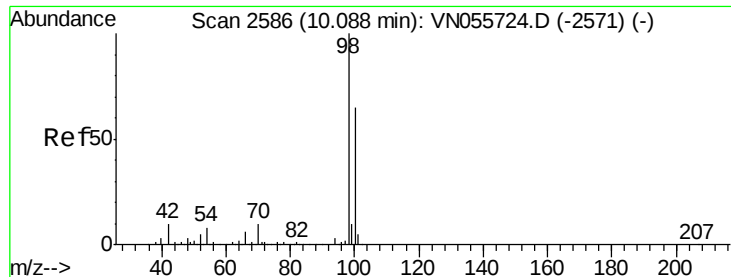
Tot Ion:117 Resp: 222274
Ion Ratio Lower Upper
117 100
82 52.1 42.6 64.0
119 32.5 25.9 38.9



#60
4-Bromofluorobenzene
Concen: 22.895 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055883.D
Acq: 29 May 2019 17:28

Tgt Ion: 95 Resp: 79165
Ion Ratio Lower Upper
95 100
174 92.0 75.7 113.5
176 88.2 74.1 111.1





#63

Toluene-d8

Concen: 31.723 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055883.D

Acq: 29 May 2019 17:28

Instrument :

MSVOA_N

ClientSampleId :

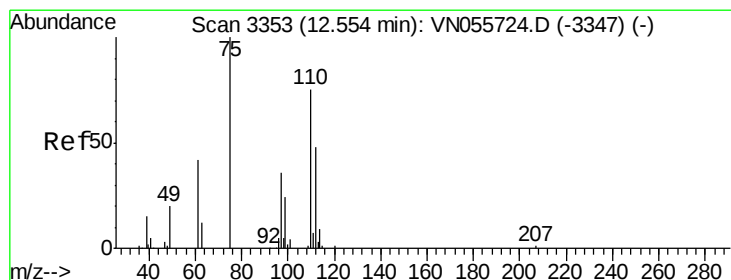
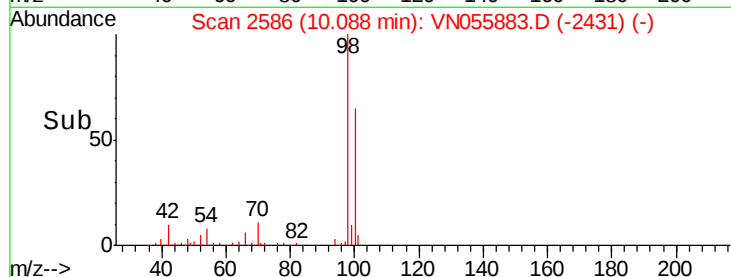
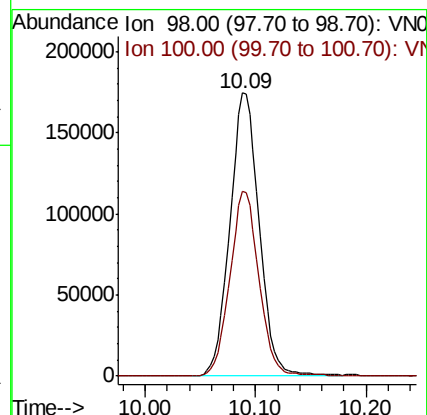
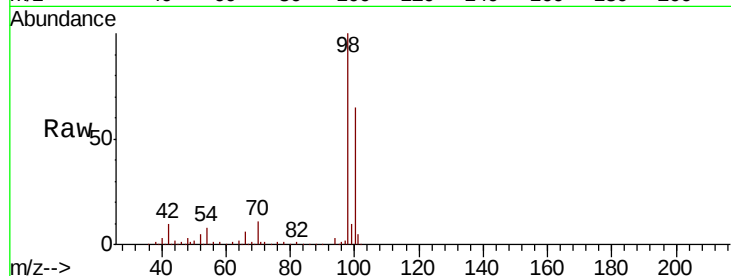
14B-3

Tot Ion: 98 Resp: 322228

Ion Ratio Lower Upper

98 100

100 64.8 51.6 77.4



#72

1,2,3-Trichloropropane

Concen: 10.804 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055883.D

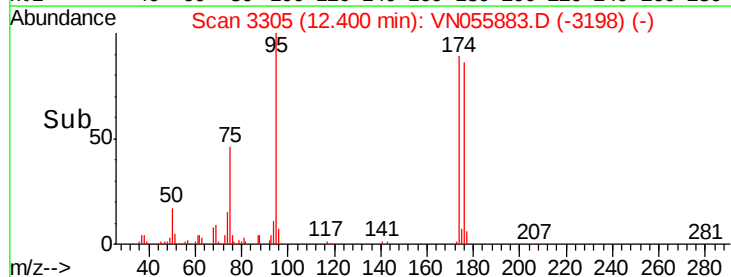
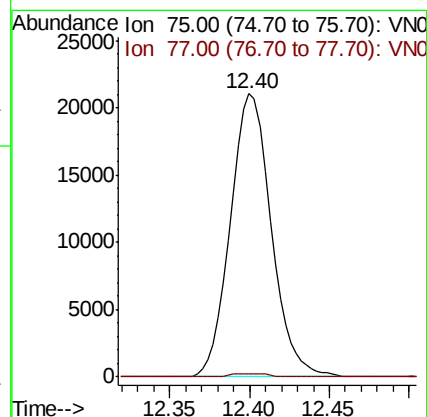
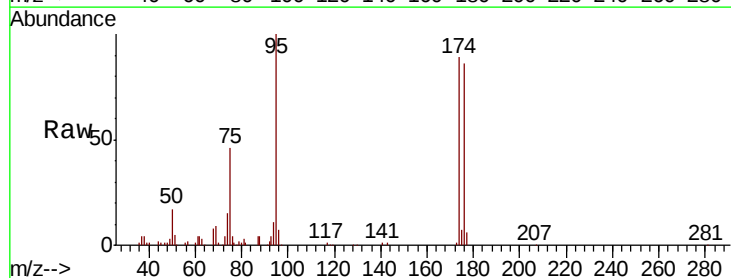
Acq: 29 May 2019 17:28

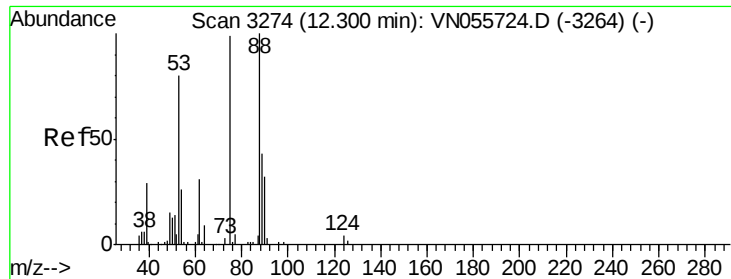
Tgt Ion: 75 Resp: 36758

Ion Ratio Lower Upper

75 100

77 1.0 0.0 349.8





#77
t-1,4-Dichloro-2-butene
Concen: 27.199 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055883.D
Acq: 29 May 2019 17:28

Instrument :
MSVOA_N
ClientSampleId :
14B-3

Tot Ion: 75 Resp: 36758
Ion Ratio Lower Upper
75 100
53 0.0 40.1 120.3#
89 0.0 22.6 67.8#

