

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058725.D
 Acq On : 12 Oct 2019 00:49
 Operator : JC/SP
 Sample : PB123847TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB123847TB

Quant Time: Oct 12 01:13:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	407112	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	643823	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	588165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	227833	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	289777	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
35) Dibromofluoromethane	7.57	113	208879	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
50) Toluene-d8	10.08	98	829852	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	12.41	95	272562	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	

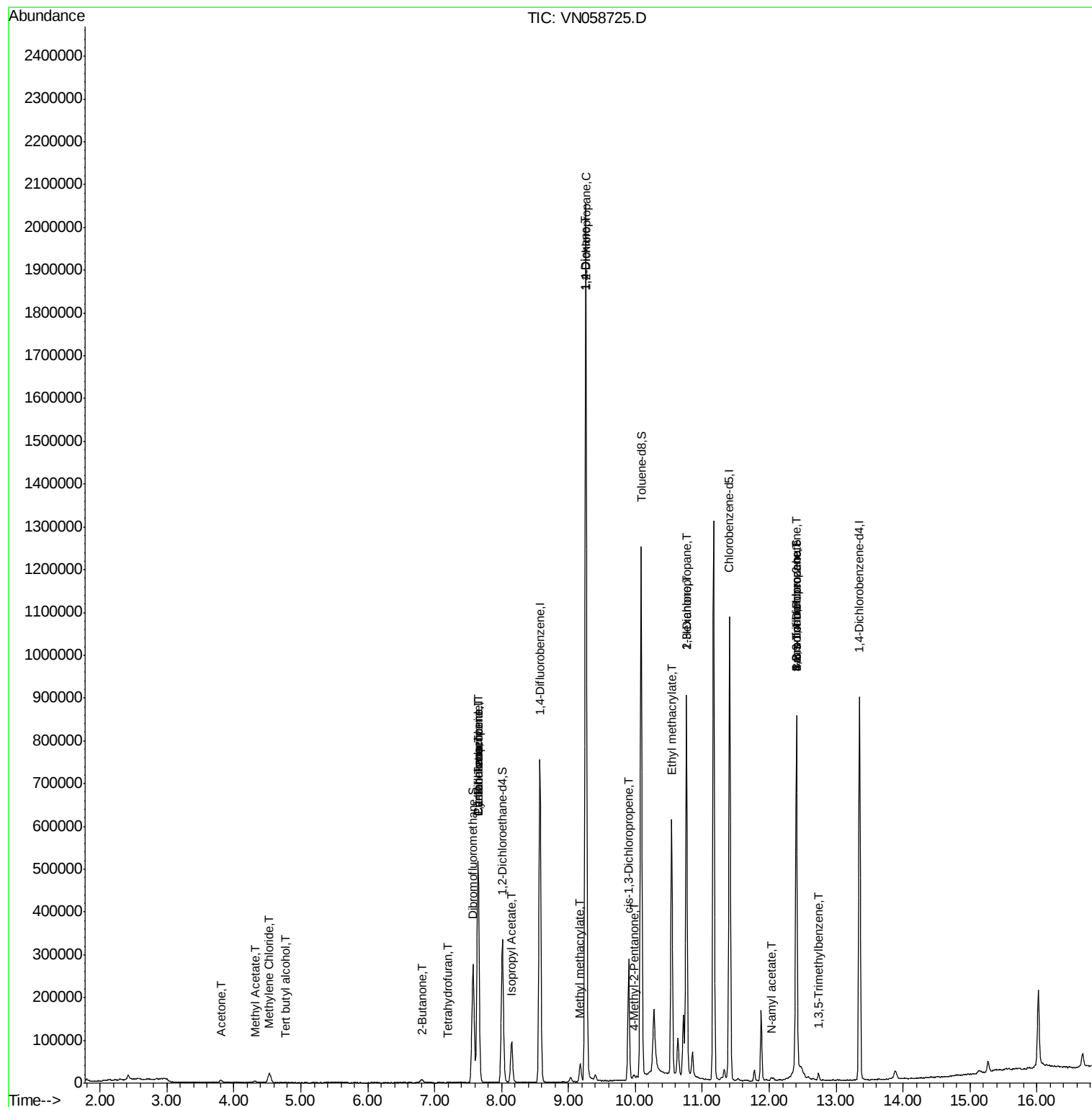
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	273	0.296	ug/l #	72
16) Acetone	3.80	43	10040	4.255	ug/l #	89
18) Methyl Acetate	4.31	43	2906	0.486	ug/l	93
20) Methylene Chloride	4.53	84	16407	3.327	ug/l	94
25) 2-Butanone	6.82	43	2806	0.823	ug/l #	84
29) Tetrahydrofuran	7.20	42	547	0.248	ug/l #	35
31) Cyclohexane	7.65	56	9445	1.130	ug/l #	3
36) 1,1-Dichloropropene	7.65	75	33505	5.147	ug/l #	51
38) Carbon Tetrachloride	7.65	117	41403	6.526	ug/l #	17
43) Isopropyl Acetate	8.15	43	117000	10.433	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	2377	0.475	ug/l #	45
48) Methyl methacrylate	9.17	41	6096	1.199	ug/l #	14
49) 1,4-Dioxane	9.25	88	215	2.734	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	5733	0.910	ug/l #	83
54) cis-1,3-Dichloropropene	9.90	75	46518	5.912	ug/l #	68
56) Ethyl methacrylate	10.54	69	2141	0.313	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8830	1.107	ug/l #	42
59) 2-Hexanone	10.76	43	134965	27.728	ug/l #	52
71) Bromoform	12.40	173	1979	0.611	ug/l #	1
74) N-amyl acetate	12.03	43	6402	0.864	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	144919	28.995	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	7340	0.521	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	144919	77.668	ug/l #	11

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

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampleId :

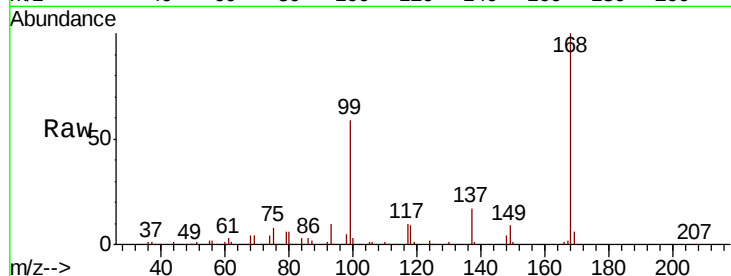
PB123847TB

Tot Ion:168 Resp: 407112

Ion Ratio Lower Upper

168 100

99 59.5 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

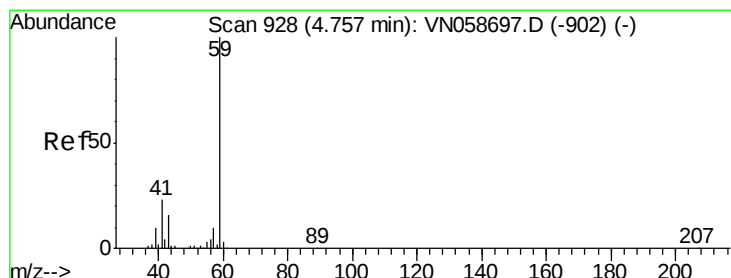
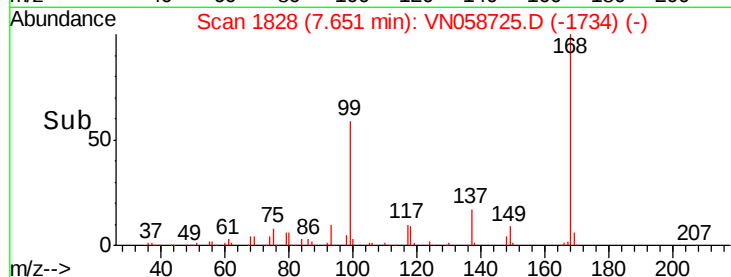
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.296 ug/l

RT: 4.76 min Scan# 930

Delta R.T. 0.01 min

Lab File: VN058725.D

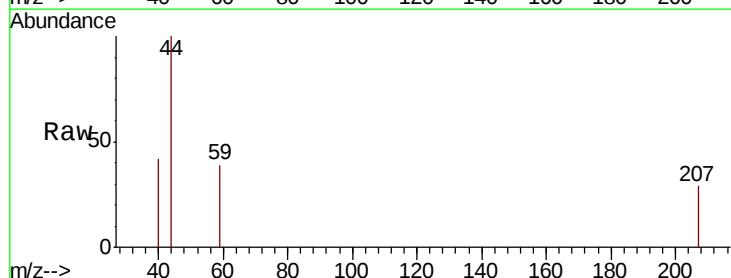
Acq: 12 Oct 2019 00:49

Tgt Ion: 59 Resp: 273

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.76

250

200

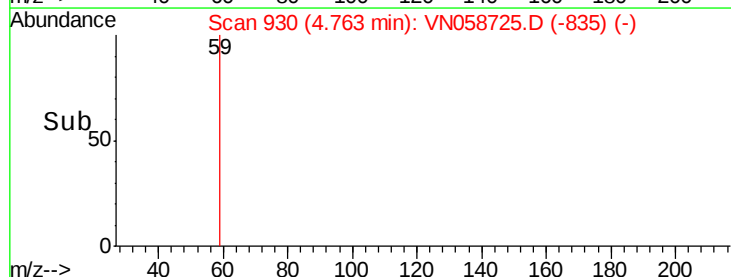
150

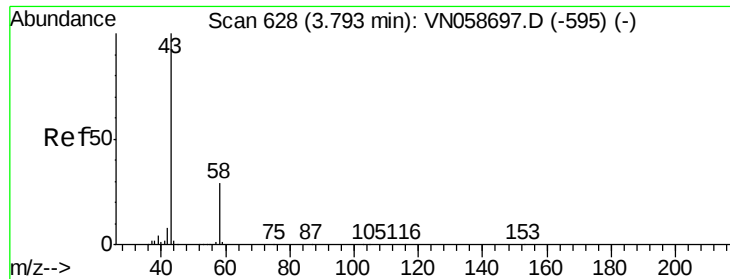
100

50

0

Time-->





#16

Acetone

Concen: 4.255 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampleId :

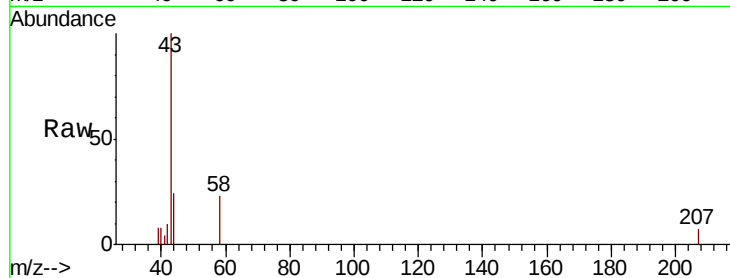
PB123847TB

Tot Ion: 43 Resp: 10040

Ion Ratio Lower Upper

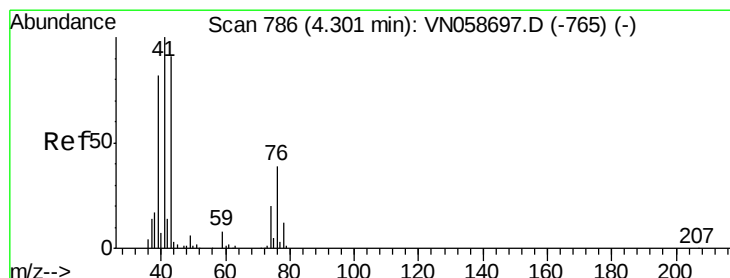
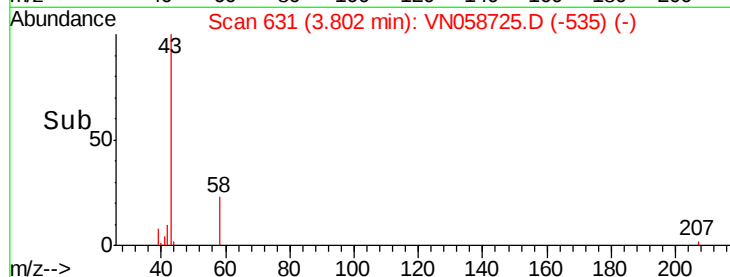
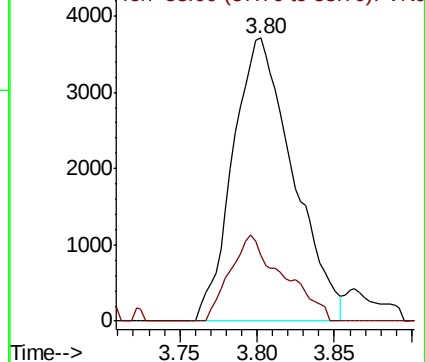
43 100

58 23.1 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN058697.D (-595) (-)



#18

Methyl Acetate

Concen: 0.486 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058725.D

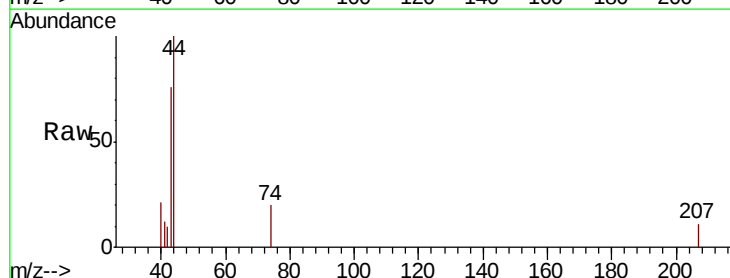
Acq: 12 Oct 2019 00:49

Tgt Ion: 43 Resp: 2906

Ion Ratio Lower Upper

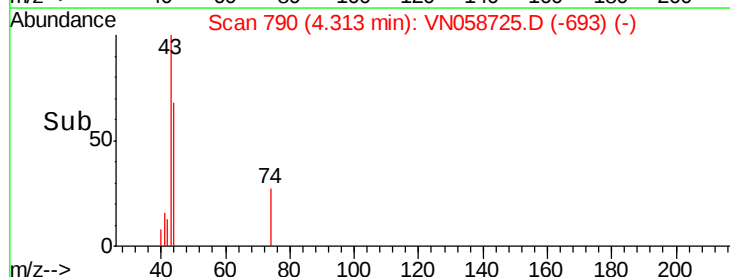
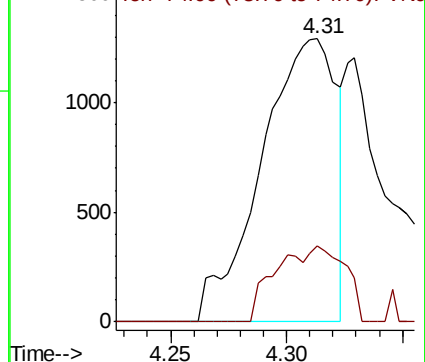
43 100

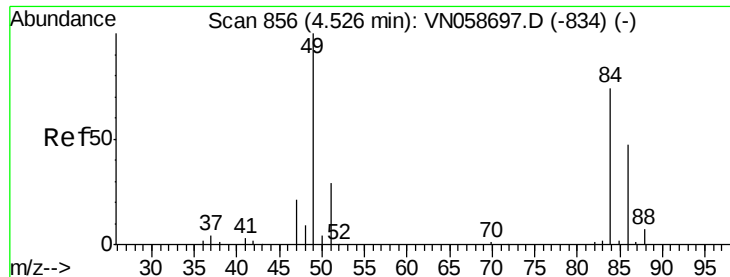
74 24.8 17.2 25.8



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-765) (-)

Ion 74.00 (73.70 to 74.70): VN058697.D (-765) (-)

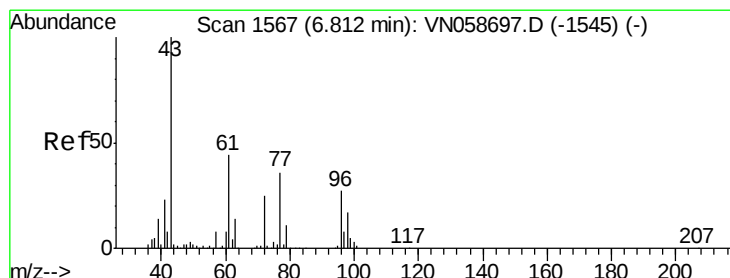
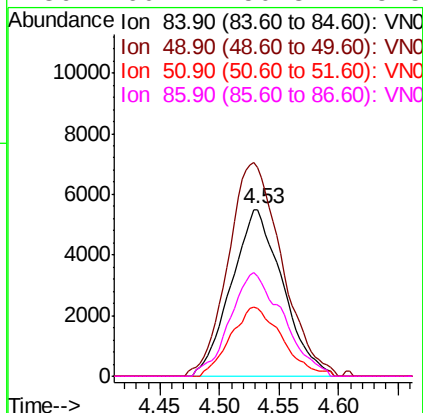
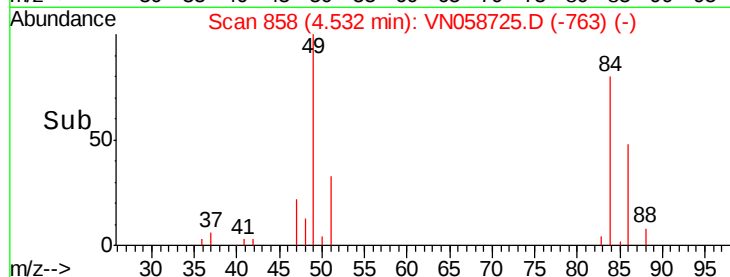
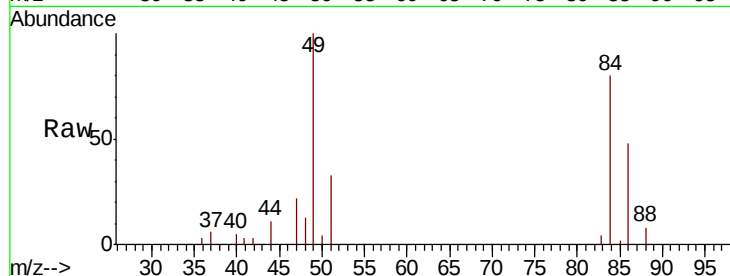




#20
Methvlene Chloride
Concen: 3.327 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058725.D
Acq: 12 Oct 2019 00:49

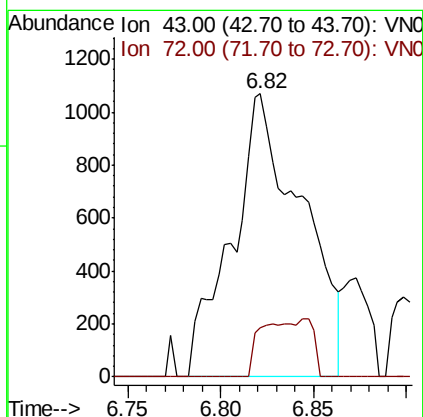
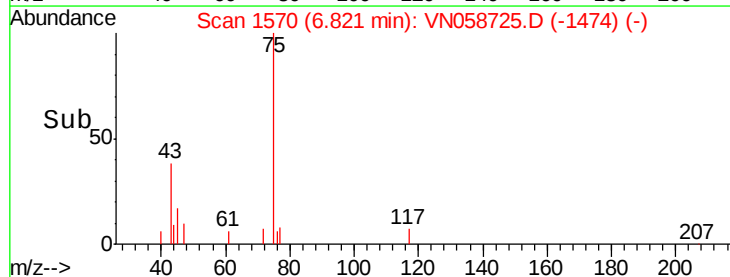
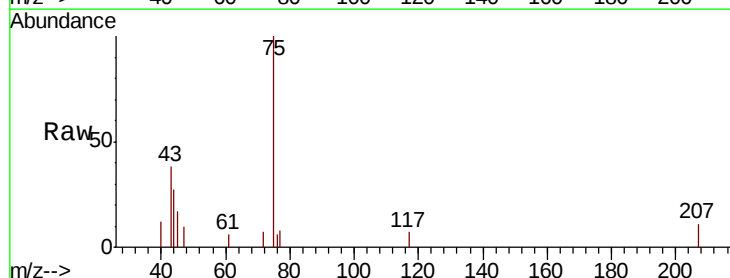
Instrument :
MSVOA_N
ClientSampled :
PB123847TB

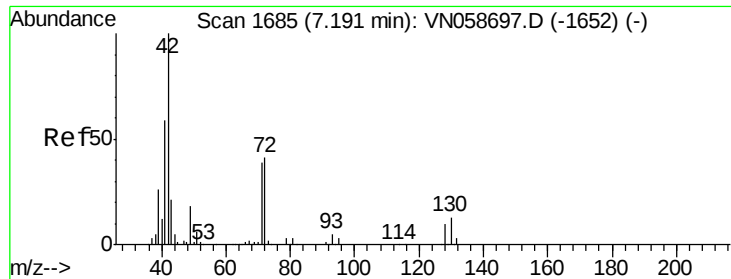
Tot Ion: 84 Resp: 16407
Ion Ratio Lower Upper
84 100
49 125.4 107.6 161.4
51 41.1 31.4 47.0
86 60.2 50.3 75.5



#25
2-Butanone
Concen: 0.823 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN058725.D
Acq: 12 Oct 2019 00:49

Tgt Ion: 43 Resp: 2806
Ion Ratio Lower Upper
43 100
72 17.3 20.2 30.2#





#29

Tetrahydrofuran

Concen: 0.248 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.01 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampleId :

PB123847TB

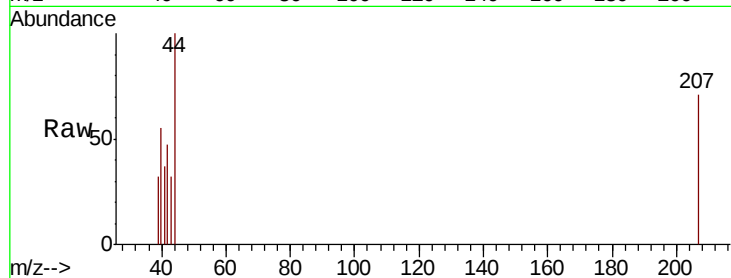
Tot Ion: 42 Resp: 547

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

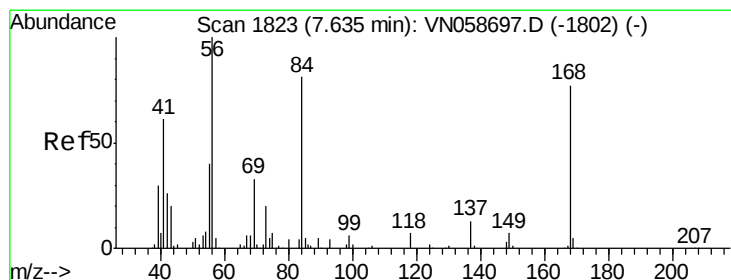
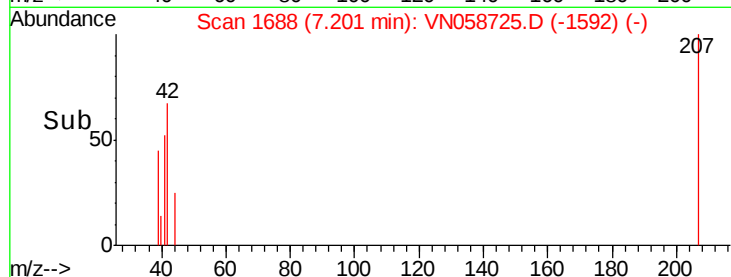
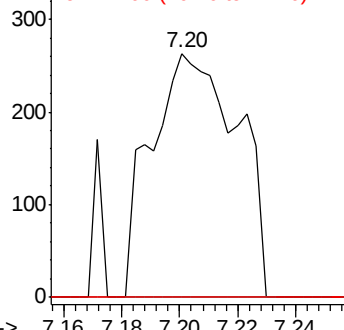
71 0.0 31.1 46.7#



Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 1.130 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

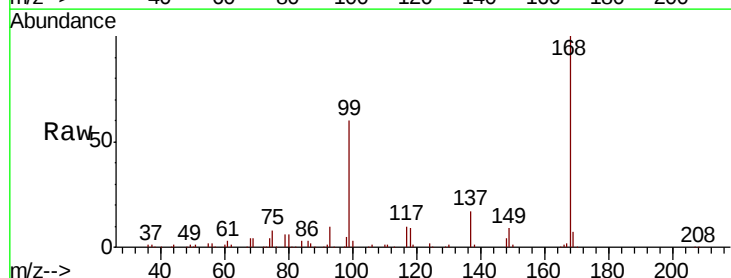
Tgt Ion: 56 Resp: 9445

Ion Ratio Lower Upper

56 100

69 163.4 26.2 39.4#

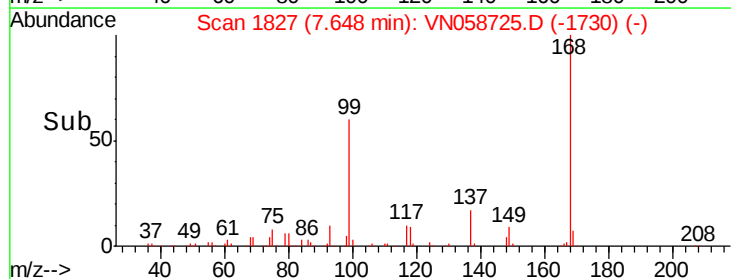
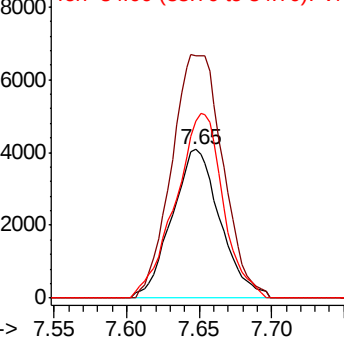
84 118.9 64.9 97.3#

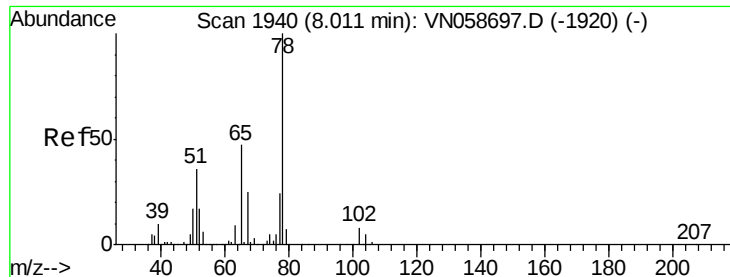


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

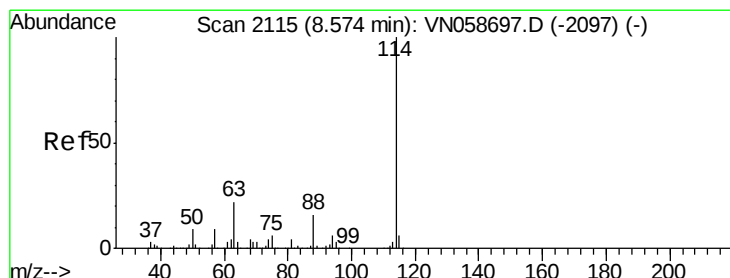
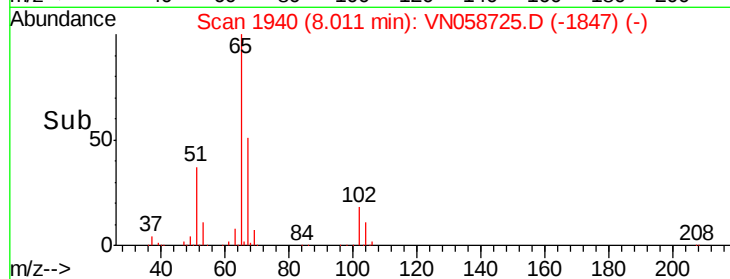
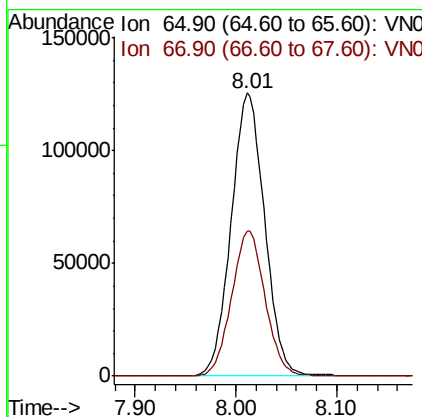
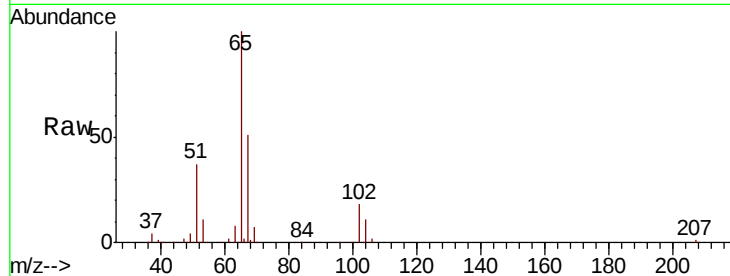




#33
 1,2-Dichloroethane-d4
 Concen: 50.843 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058725.D
 Acq: 12 Oct 2019 00:49

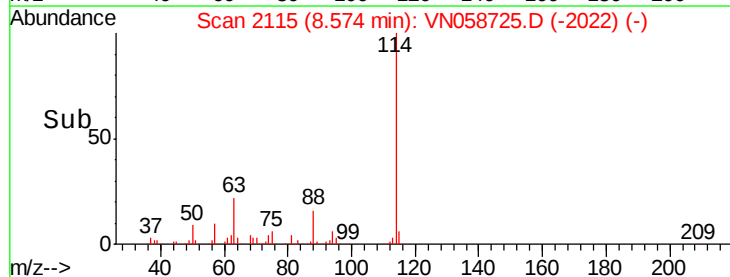
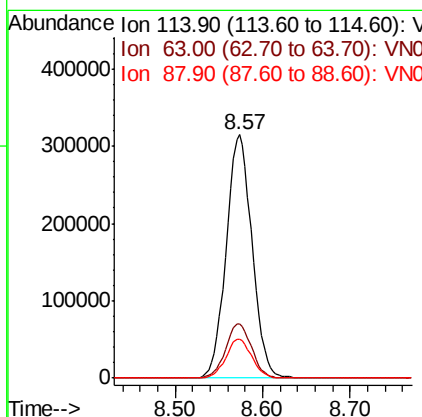
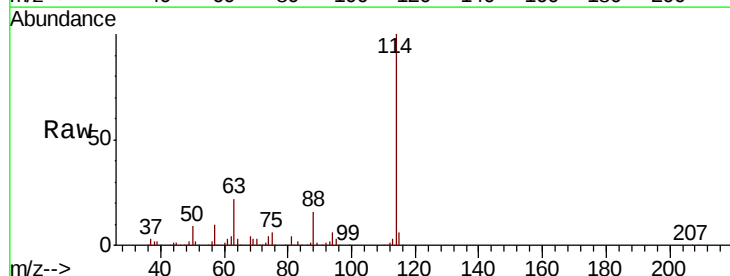
Instrument :
 MSVOA_N
 ClientSampled :
 PB123847TB

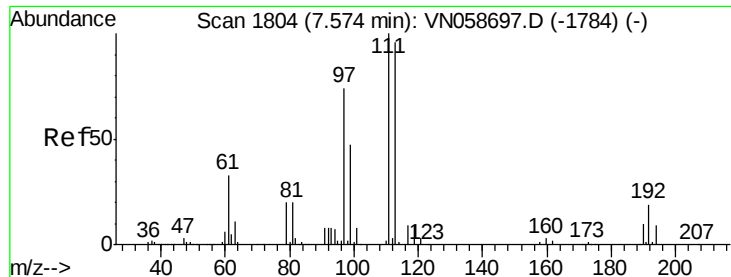
Tot Ion: 65 Resp: 289777
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058725.D
 Acq: 12 Oct 2019 00:49

Tgt Ion: 114 Resp: 643823
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 15.9 0.0 32.0

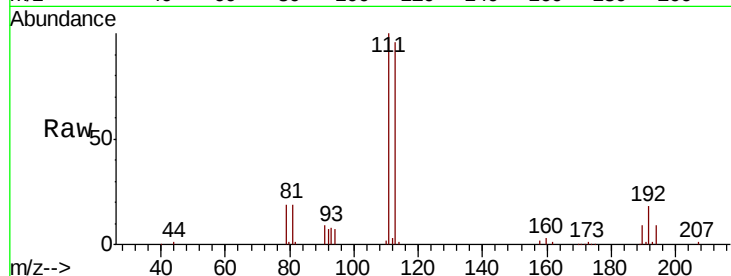




#35
Dibromofluoromethane
Concen: 52.525 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058725.D
Acq: 12 Oct 2019 00:49

Instrument :
MSVOA_N
ClientSampleId :
PB123847TB

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.3	123.5
192	18.7	15.0	22.6

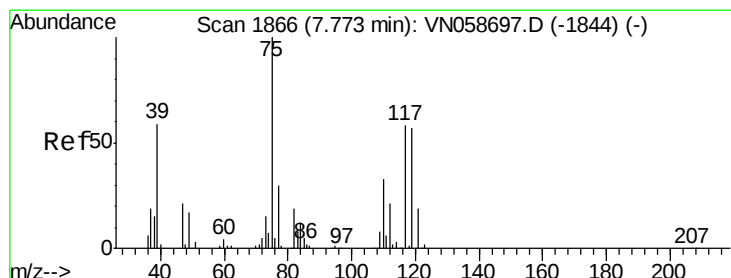
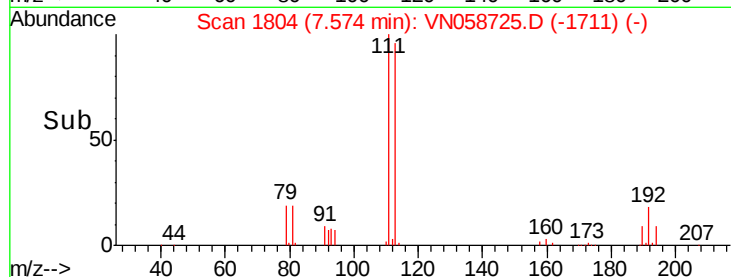
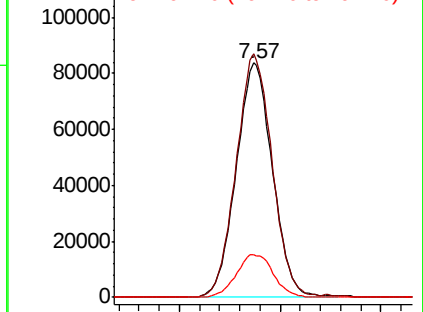


Abundance

Ion 112.80 (112.50 to 113.50): V

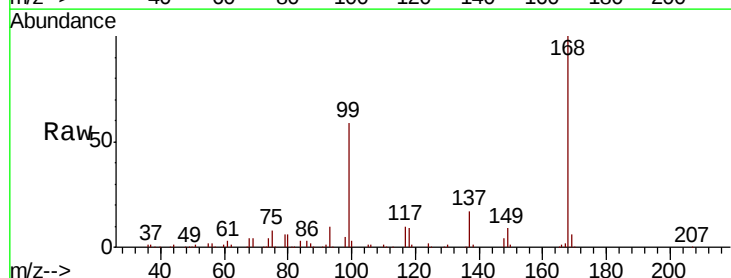
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
1,1-Dichloropropene
Concen: 5.147 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.12 min
Lab File: VN058725.D
Acq: 12 Oct 2019 00:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.6	49.8#
77	0.0	24.6	37.0#

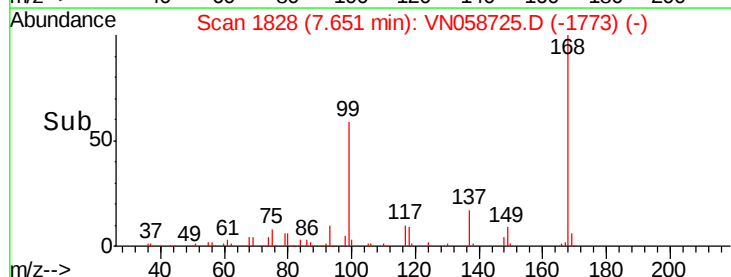
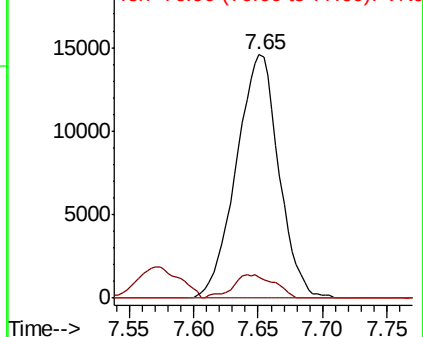


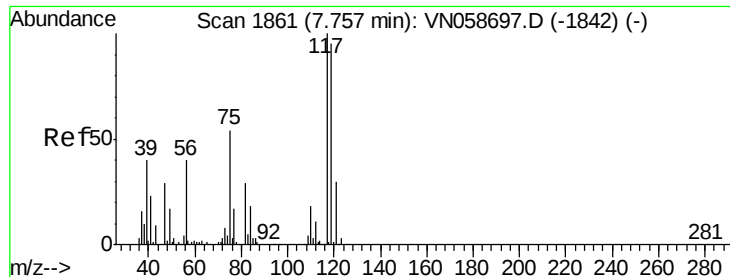
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.526 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampleId :

PB123847TB

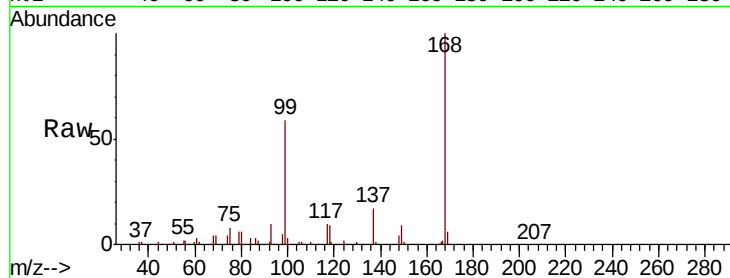
Tot Ion:117 Resp: 41403

Ion Ratio Lower Upper

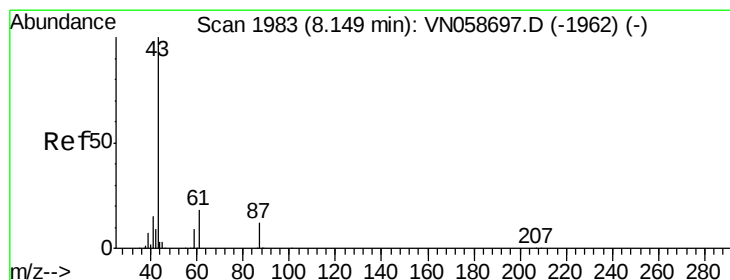
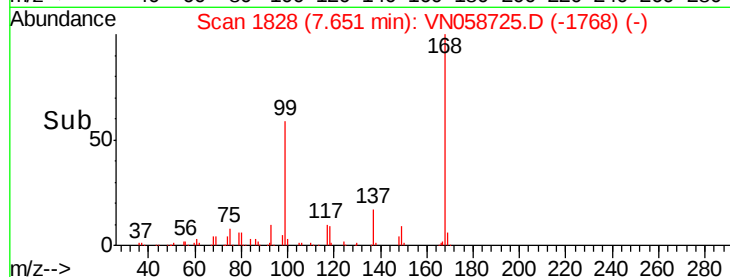
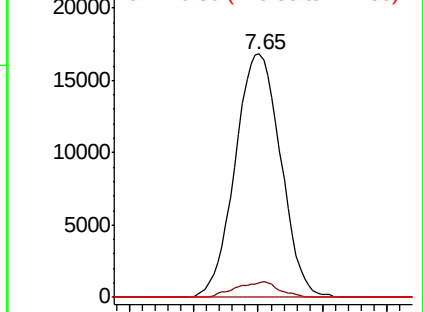
117 100

119 6.0 75.7 113.5#

121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 10.433 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

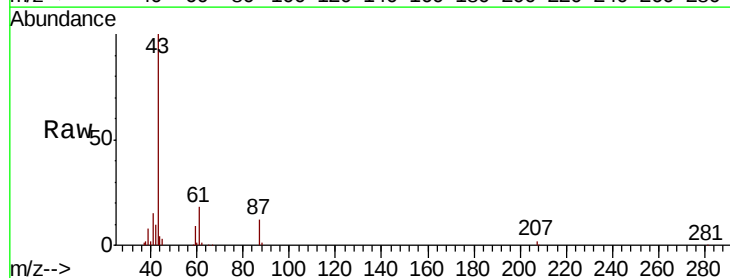
Tgt Ion: 43 Resp: 117000

Ion Ratio Lower Upper

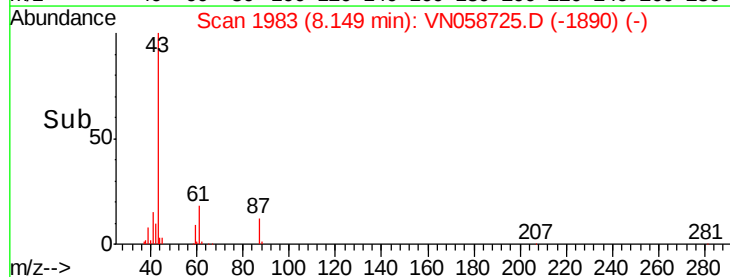
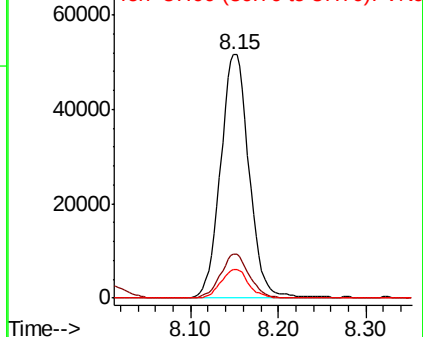
43 100

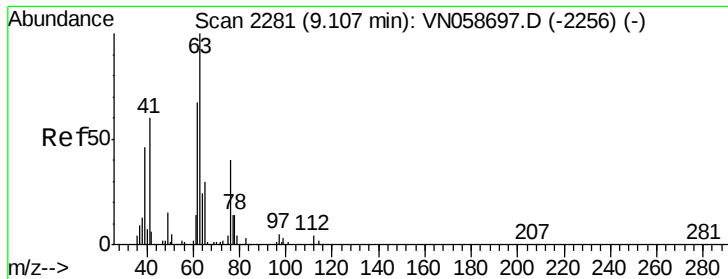
61 18.0 20.3 30.5#

87 11.4 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.475 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampled :

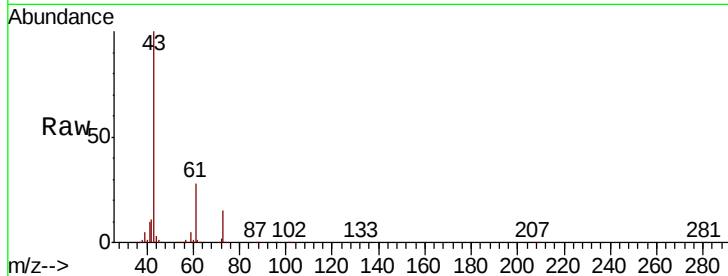
PB123847TB

Tot Ion: 63 Resp: 2377

Ion Ratio Lower Upper

63 100

65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.26

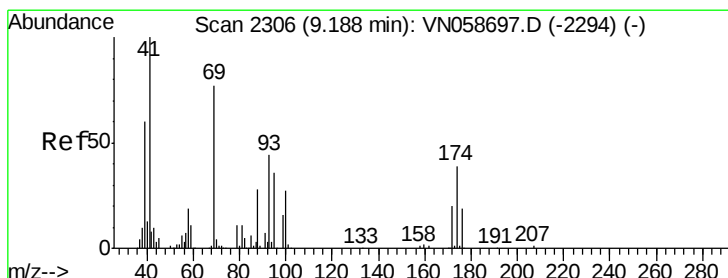
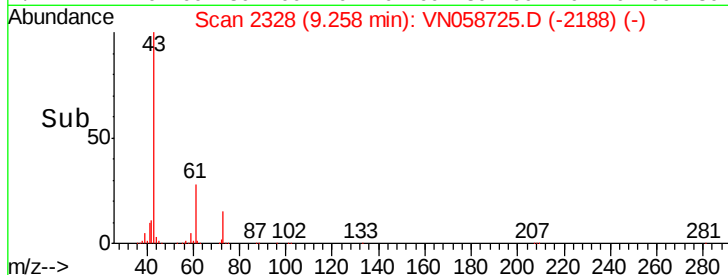
1500

1000

500

0

Time--> 9.20 9.25 9.30



#48

Methyl methacrylate

Concen: 1.199 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

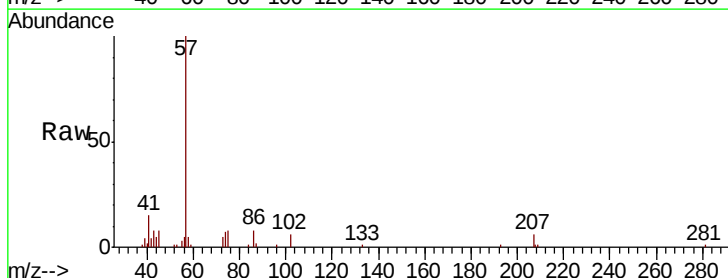
Tgt Ion: 41 Resp: 6096

Ion Ratio Lower Upper

41 100

69 0.0 63.4 95.2#

39 0.0 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

120000

100000

80000

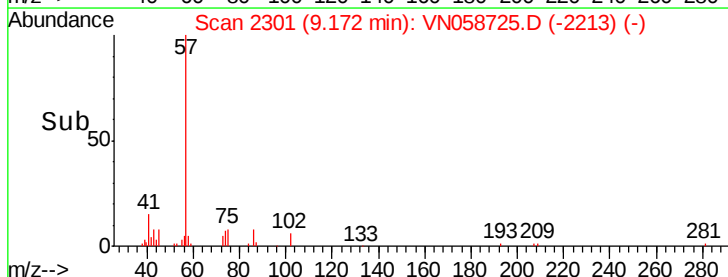
60000

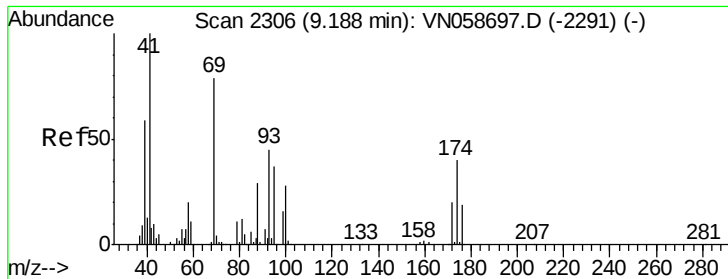
40000

20000

0

Time--> 9.10 9.15 9.20

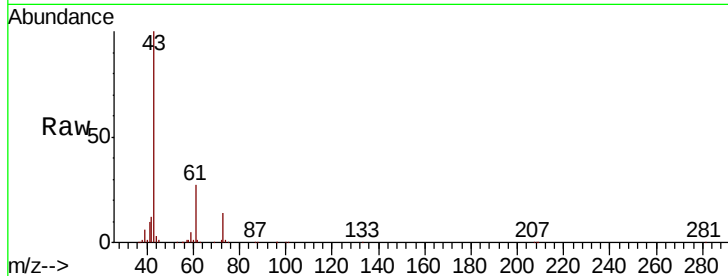




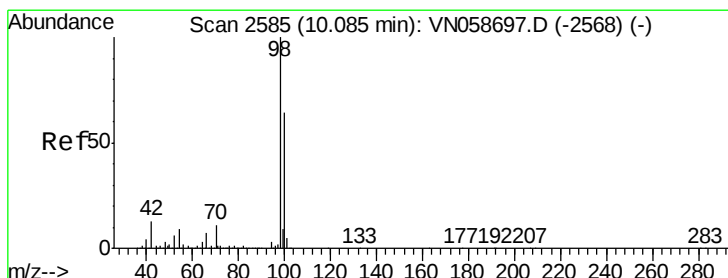
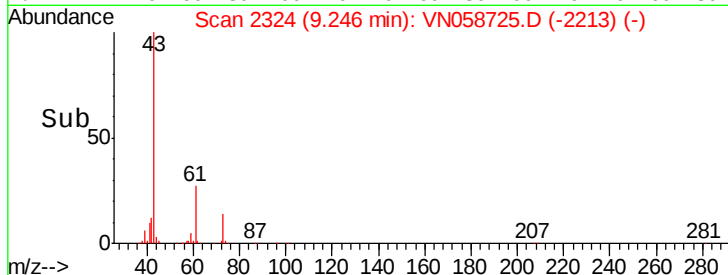
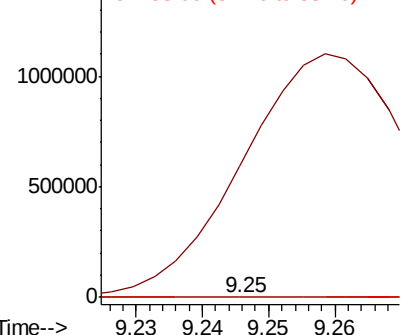
#49
 1,4-Dioxane
 Concen: 2.734 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.06 min
 Lab File: VN058725.D
 Acq: 12 Oct 2019 00:49

Instrument :
 MSVOA_N
 ClientSampled :
 PB123847TB

Tot Ion: 88 Resp: 215
 Ion Ratio Lower Upper
 88 100
 43 0.0 28.6 43.0#
 58 0.0 57.2 85.8#

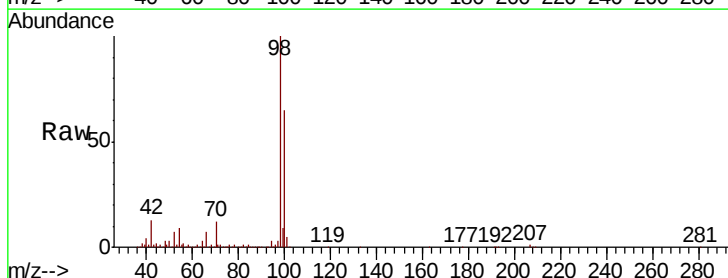


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

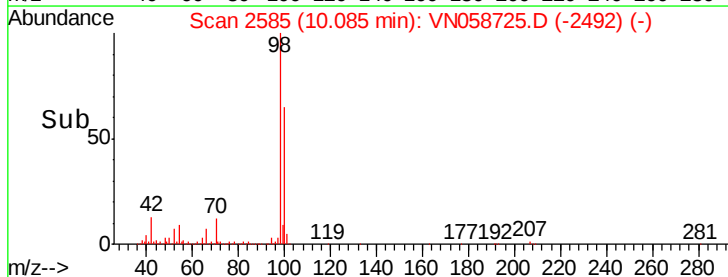
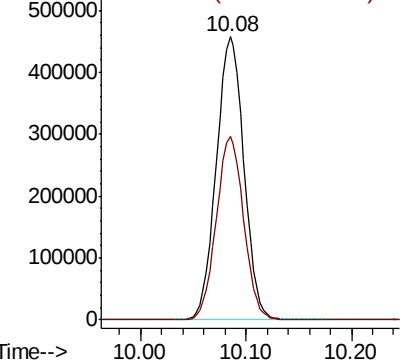


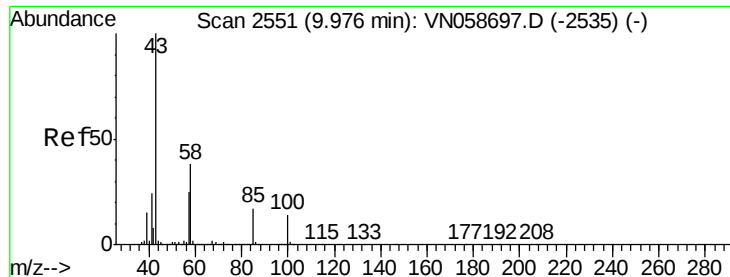
#50
 Toluene-d8
 Concen: 52.184 ug/l
 RT: 10.08 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: VN058725.D
 Acq: 12 Oct 2019 00:49

Tgt Ion: 98 Resp: 829852
 Ion Ratio Lower Upper
 98 100
 100 64.3 51.1 76.7



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





#51

4-Methyl-2-Pentanone

Concen: 0.910 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampleId :

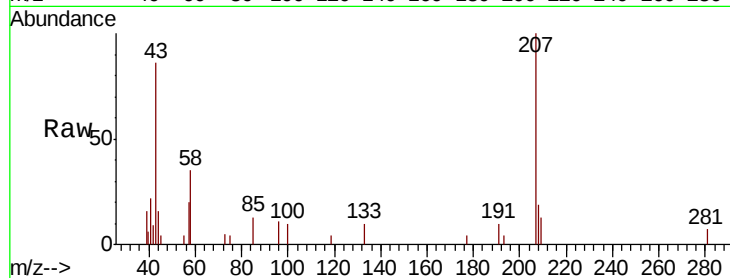
PB123847TB

Tot Ion: 43 Resp: 5733

Ion Ratio Lower Upper

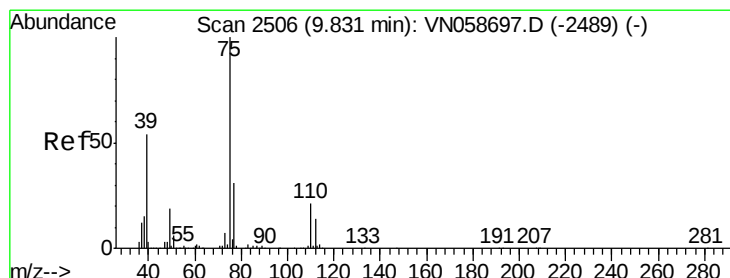
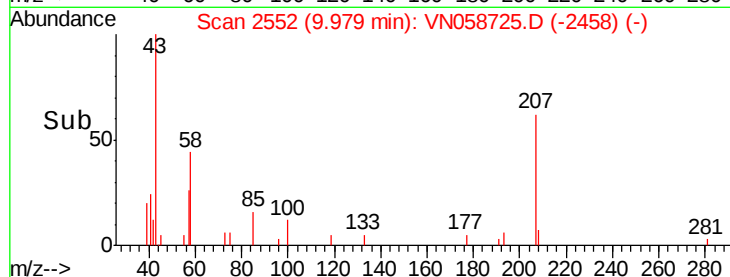
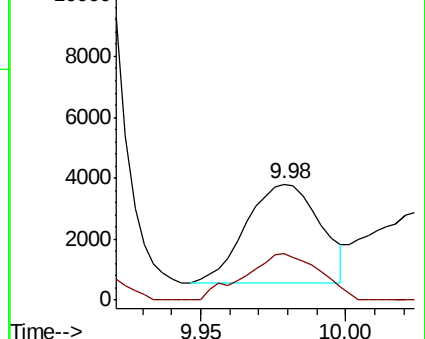
43 100

58 48.1 30.3 45.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.912 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

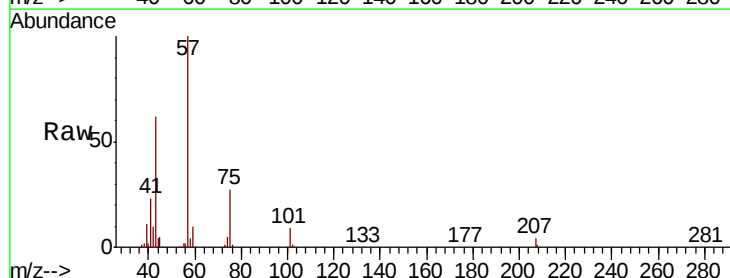
Tgt Ion: 75 Resp: 46518

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

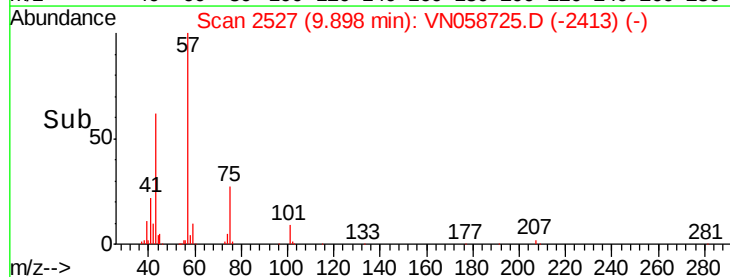
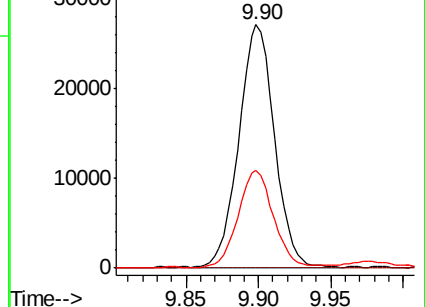
39 40.2 43.1 64.7#

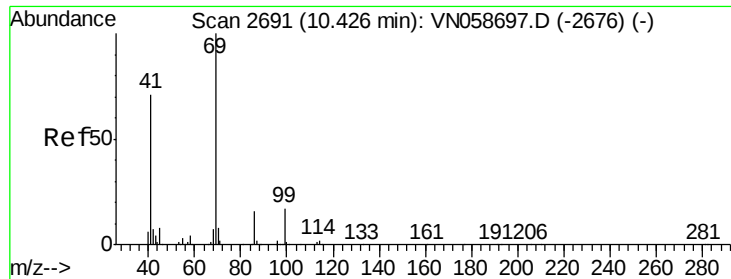


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.313 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampleId :

PB123847TB

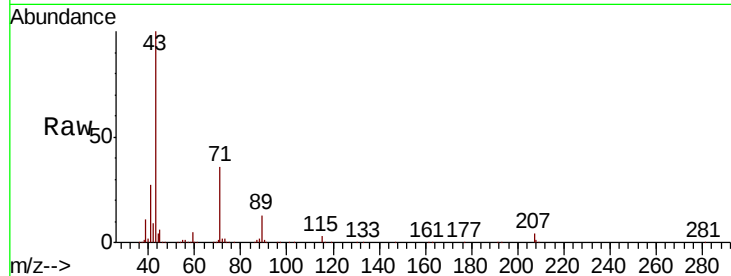
Tot Ion: 69 Resp: 2141

Ion Ratio Lower Upper

69 100

41 5359.4 56.8 85.2#

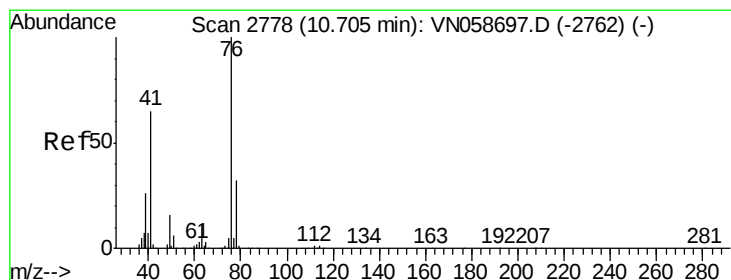
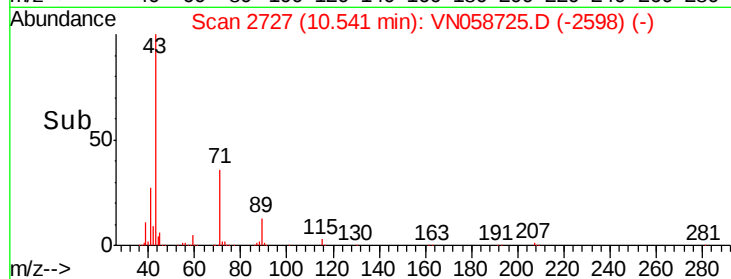
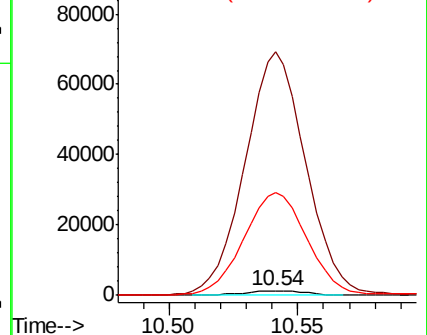
39 2370.2 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.107 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058725.D

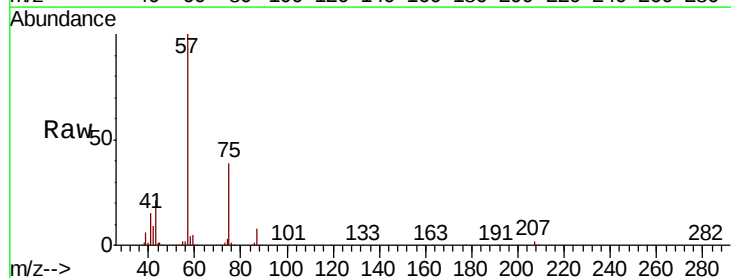
Acq: 12 Oct 2019 00:49

Tgt Ion: 76 Resp: 8830

Ion Ratio Lower Upper

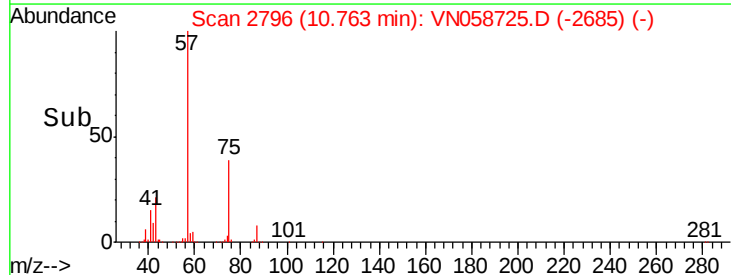
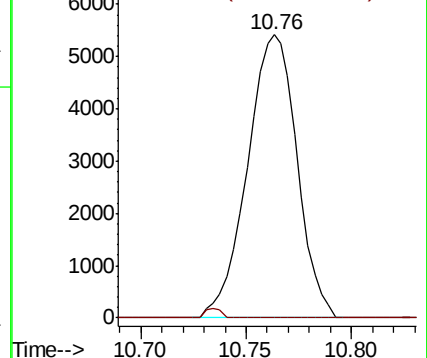
76 100

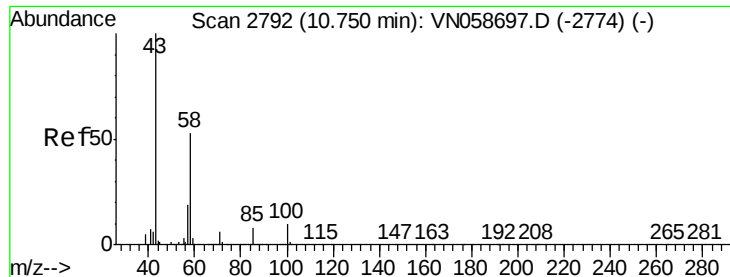
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

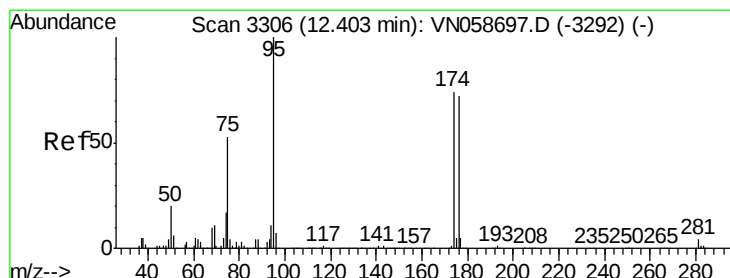
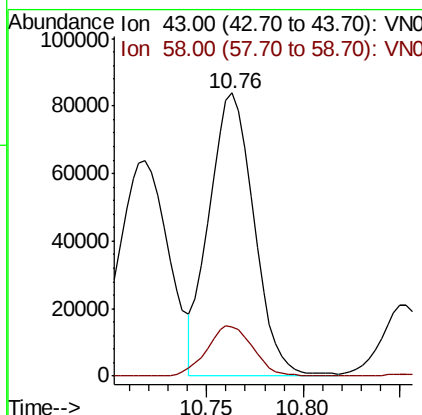
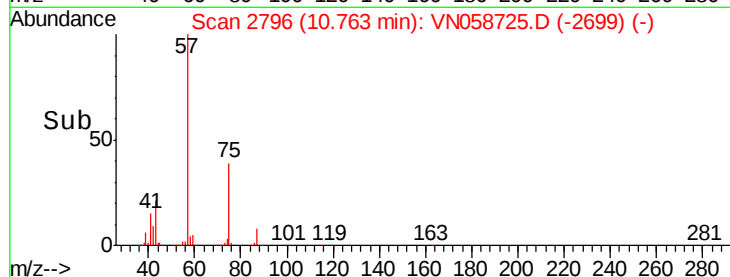
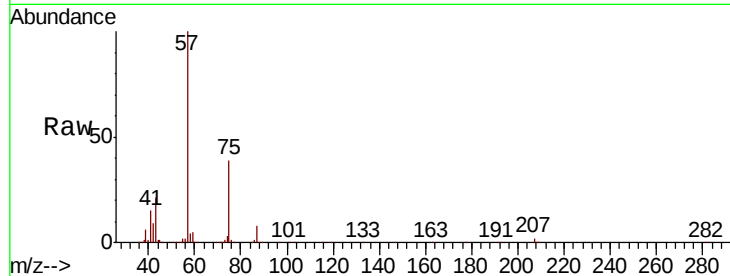




#59
2-Hexanone
Concen: 27.728 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058725.D
Acq: 12 Oct 2019 00:49

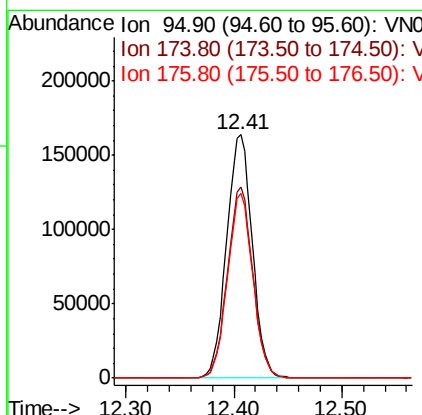
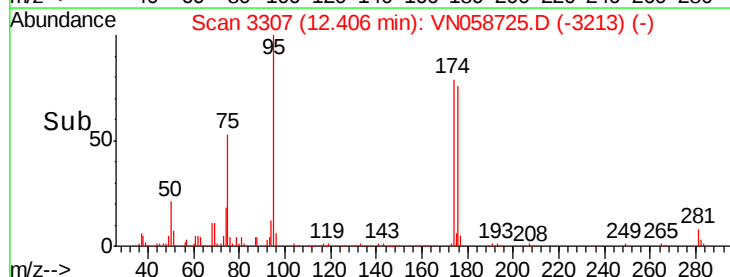
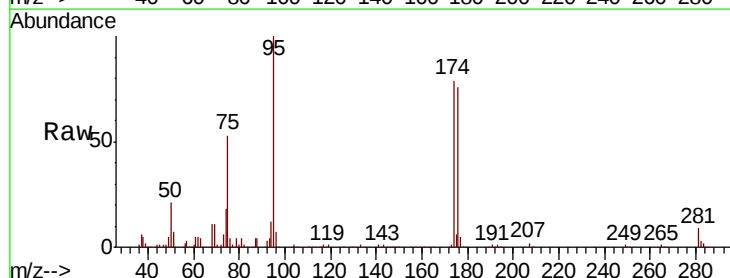
Instrument :
MSVOA_N
ClientSampleId :
PB123847TB

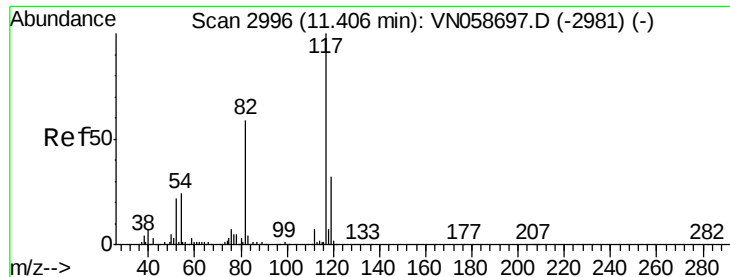
Tot Ion: 43 Resp: 134965
Ion Ratio Lower Upper
43 100
58 18.4 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 45.279 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058725.D
Acq: 12 Oct 2019 00:49

Tgt Ion: 95 Resp: 272562
Ion Ratio Lower Upper
95 100
174 77.0 0.0 150.4
176 74.6 0.0 146.8

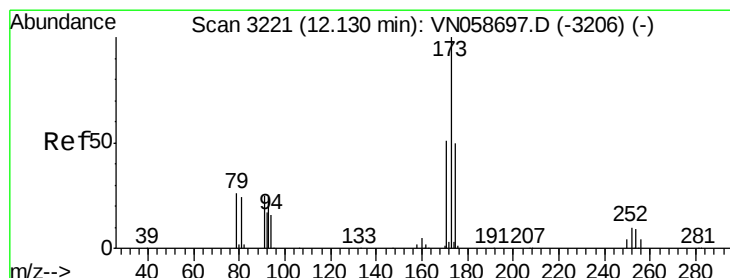
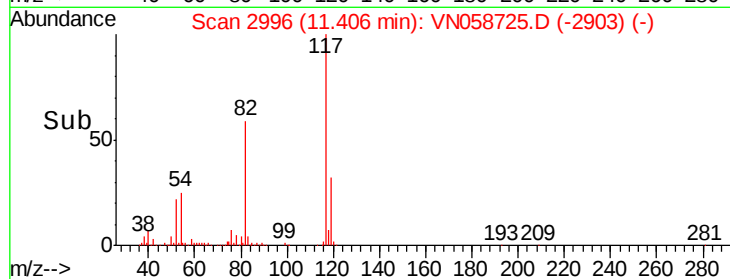
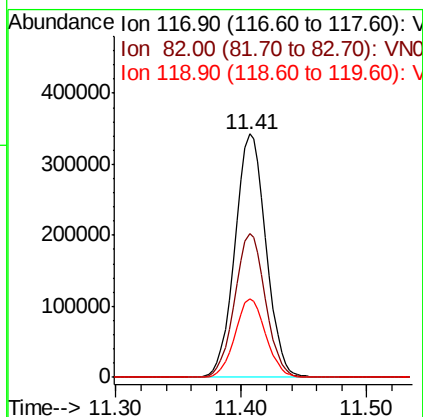
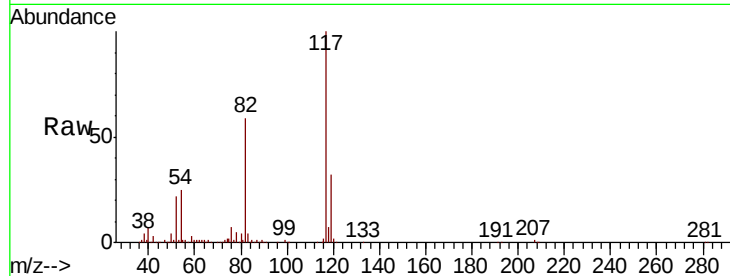




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058725.D
Acq: 12 Oct 2019 00:49

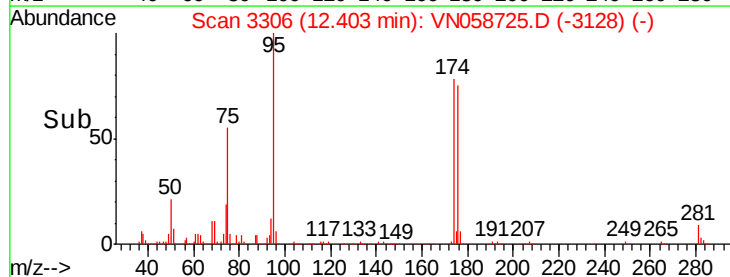
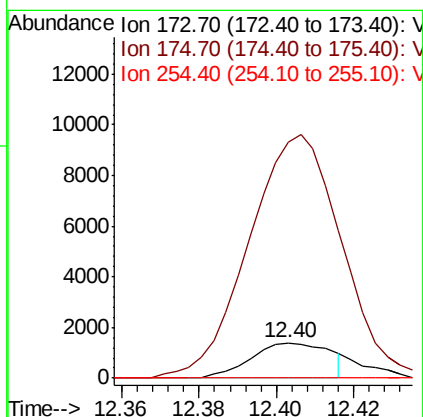
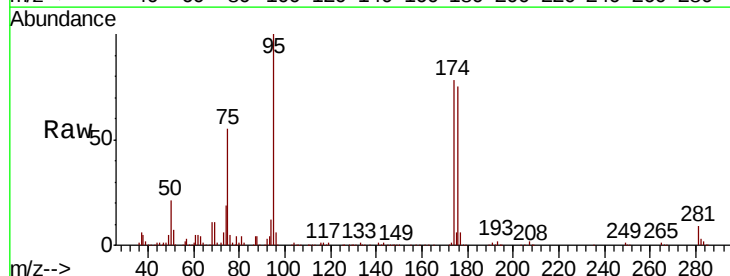
Instrument :
MSVOA_N
ClientSampleId :
PB123847TB

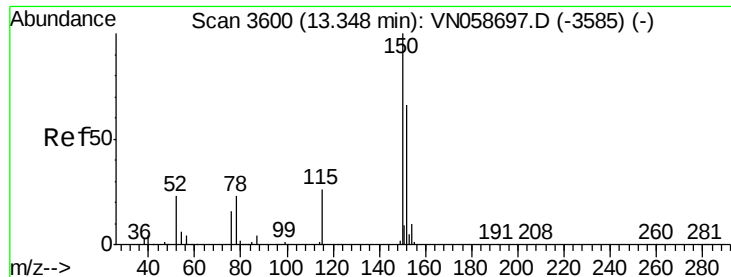
Tot Ion:117 Resp: 588165
Ion Ratio Lower Upper
117 100
82 59.2 47.0 70.4
119 32.3 25.4 38.2



#71
Bromoform
Concen: 0.611 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058725.D
Acq: 12 Oct 2019 00:49

Tgt Ion:173 Resp: 1979
Ion Ratio Lower Upper
173 100
175 709.6 24.6 73.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampleId :

PB123847TB

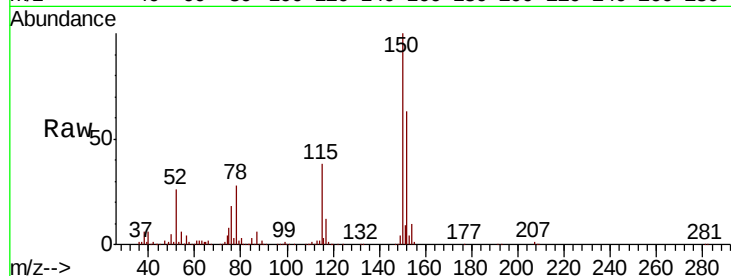
Tot Ion:152 Resp: 227833

Ion Ratio Lower Upper

152 100

115 61.7 30.4 91.2

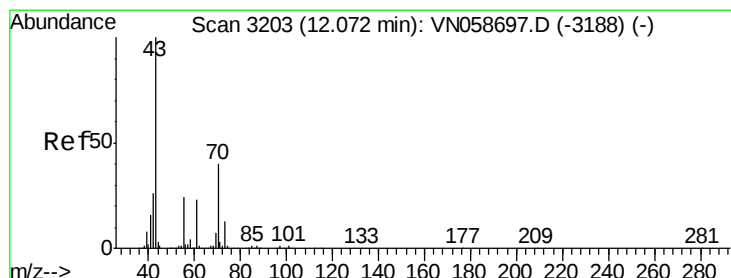
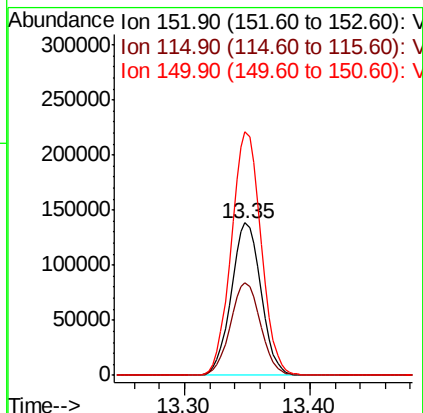
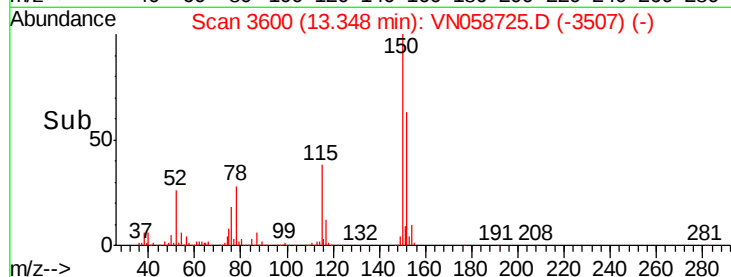
150 159.8 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.864 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.05 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Tgt Ion: 43 Resp: 6402

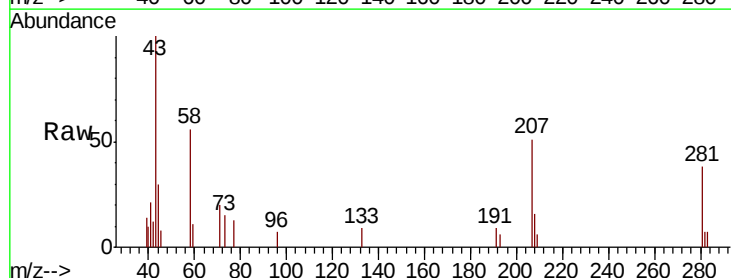
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 2.6 19.6 29.4#

61 0.0 18.6 28.0#

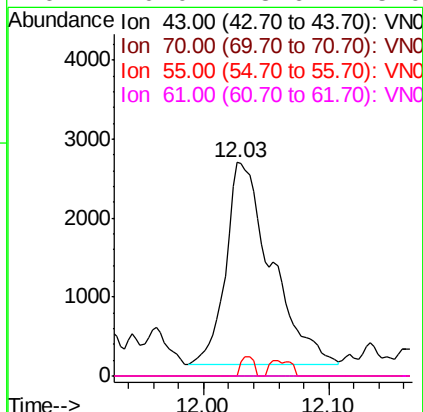
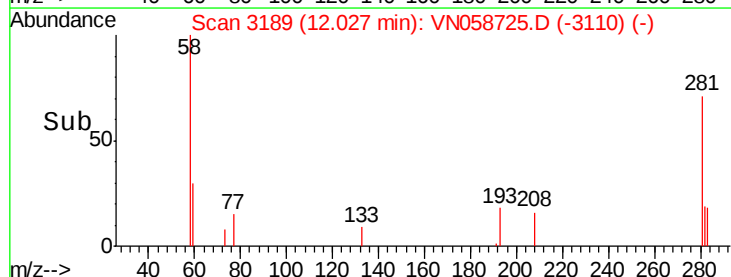


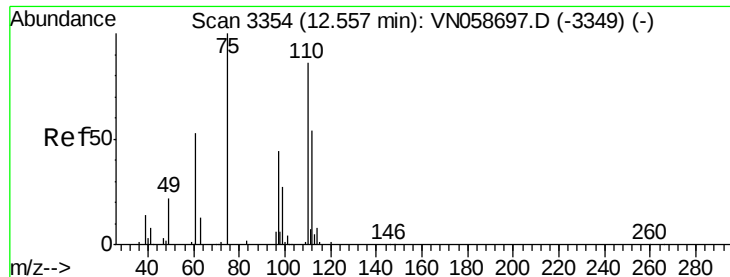
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 28.995 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampled :

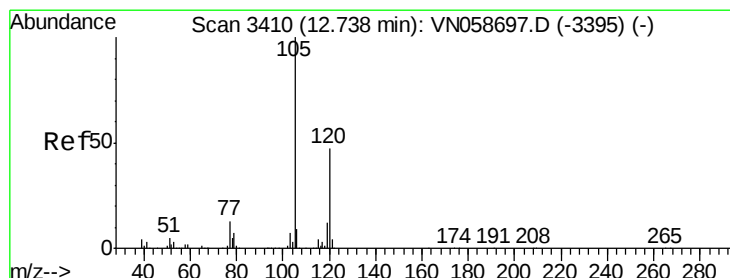
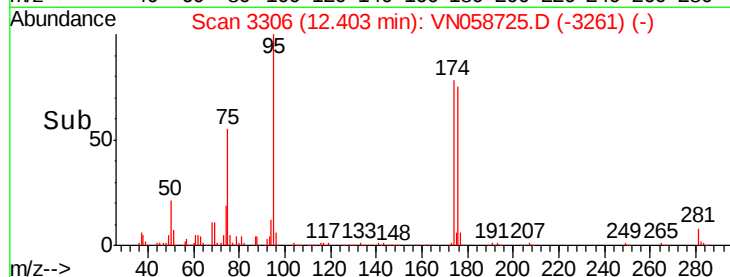
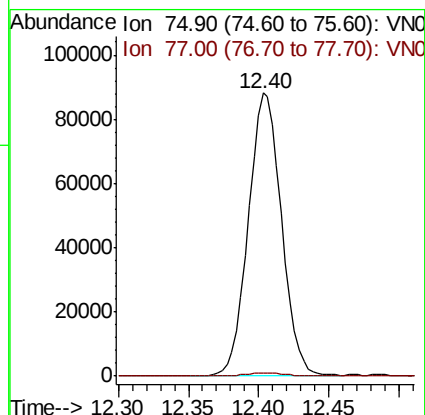
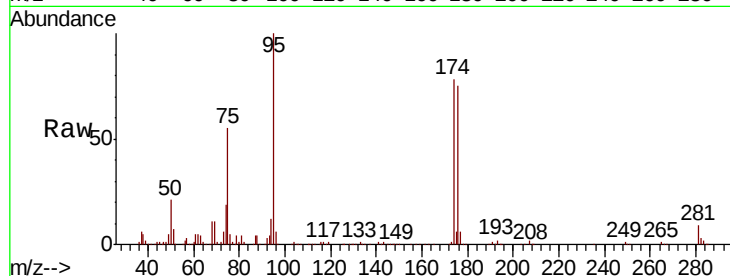
PB123847TB

Tot Ion: 75 Resp: 144919

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.521 ug/l

RT: 12.74 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN058725.D

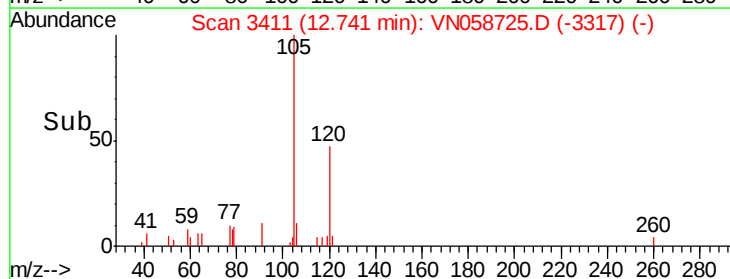
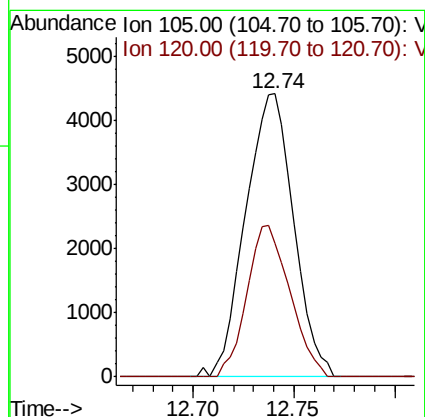
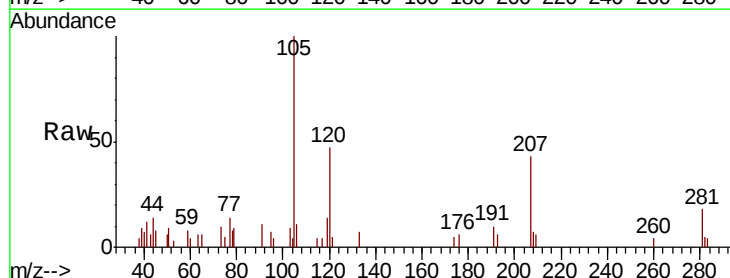
Acq: 12 Oct 2019 00:49

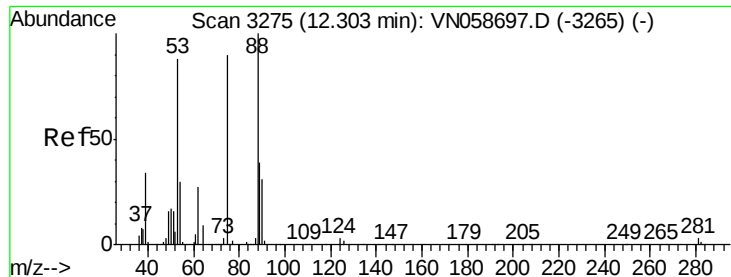
Tgt Ion: 105 Resp: 7340

Ion Ratio Lower Upper

105 100

120 48.1 23.4 70.2





#81

trans-1,4-Dichloro-2-butene

Concen: 77.668 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058725.D

Acq: 12 Oct 2019 00:49

Instrument :

MSVOA_N

ClientSampleId :

PB123847TB

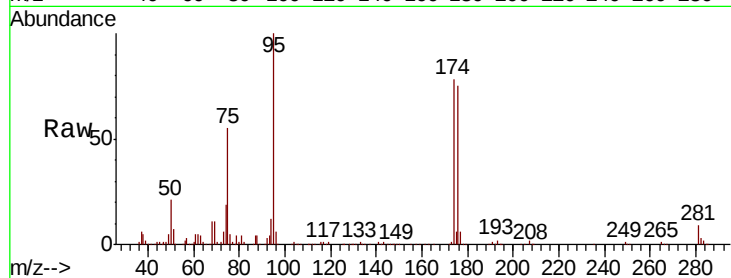
Tot Ion: 75 Resp: 144919

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#



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

