

Data File : VN057782.D
Acq On : 8 Sep 2019 2:51
Operator : JC/SP
Sample : K4601-32
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T12-F2-(0)

Quant Time: Sep 08 06:46:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	178985	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	296815	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	268640	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	130403	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	235210	54.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.04%	
35) Dibromofluoromethane	7.58	113	143163	52.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.90%	
50) Toluene-d8	10.08	98	505049	50.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.00%	
62) 4-Bromofluorobenzene	12.40	95	177923	42.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.66%	

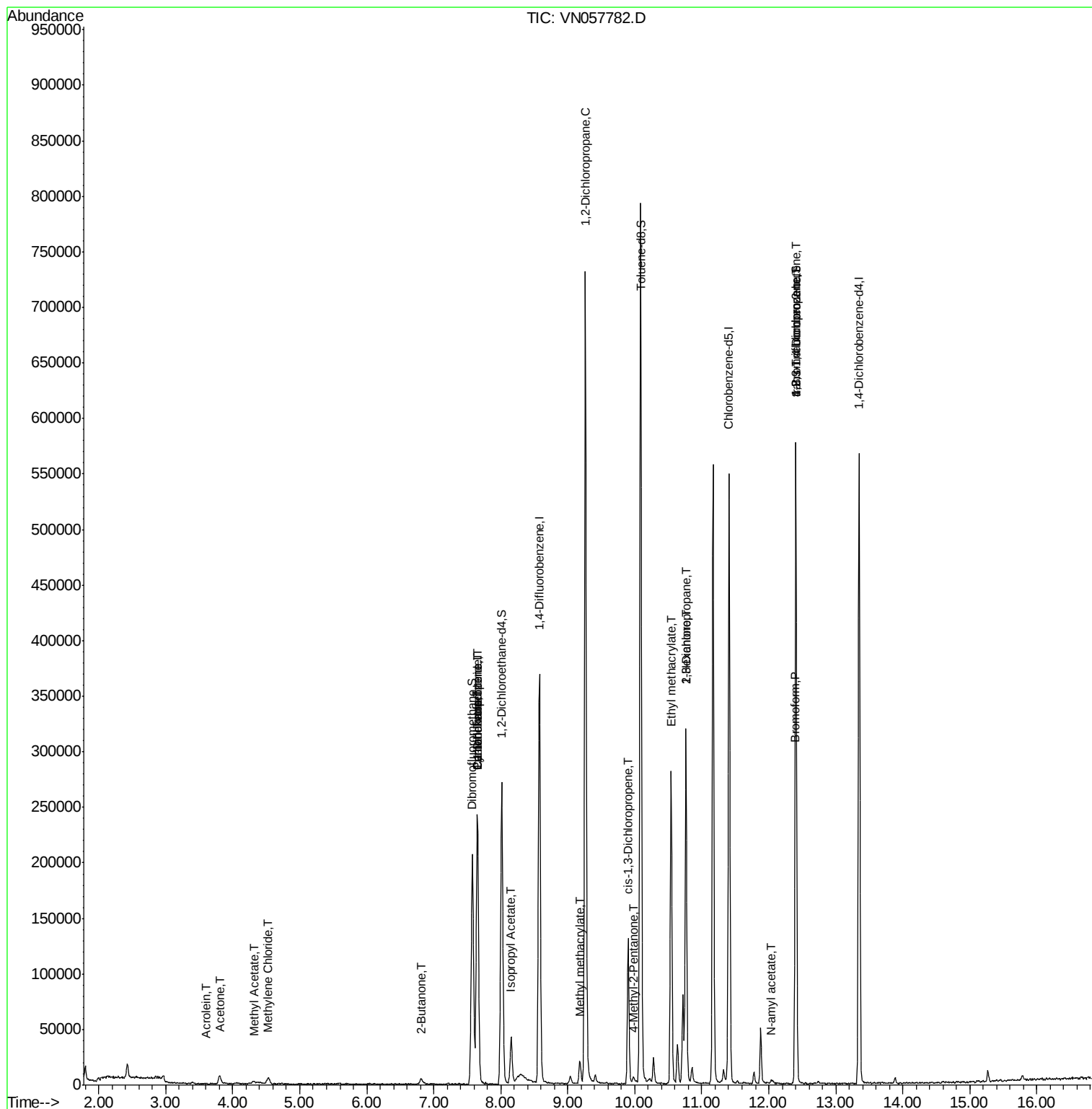
Target Compounds			Qvalue			
3) Chloromethane	2.03	50	808	Below Cal	#	84
13) Acrolein	3.62	56	122	0.519	ug/l #	15
16) Acetone	3.80	43	13017	9.715	ug/l	93
18) Methyl Acetate	4.32	43	2700	0.741	ug/l #	79
20) Methylene Chloride	4.52	84	3492	1.205	ug/l	89
25) 2-Butanone	6.81	43	729	0.380	ug/l #	55
31) Cyclohexane	7.64	56	3163	0.647	ug/l #	49
36) 1,1-Dichloropropene	7.65	75	15777	3.996	ug/l #	49
38) Carbon Tetrachloride	7.65	117	18717	4.950	ug/l #	16
43) Isopropyl Acetate	8.16	43	51276	6.815	ug/l	98
45) 1,2-Dichloropropane	9.26	63	653	0.209	ug/l #	44
48) Methyl methacrylate	9.18	41	3385	0.875	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	4045	0.968	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	19696	4.267	ug/l #	63
56) Ethyl methacrylate	10.54	69	1226	0.282	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	2944	0.602	ug/l #	43
59) 2-Hexanone	10.76	43	54581	18.523	ug/l #	56
71) Bromoform	12.38	173	107	3.297	ug/l #	28
74) N-amyl acetate	12.04	43	2357	0.409	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	109007	36.402	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	109007	113.210	ug/l #	1

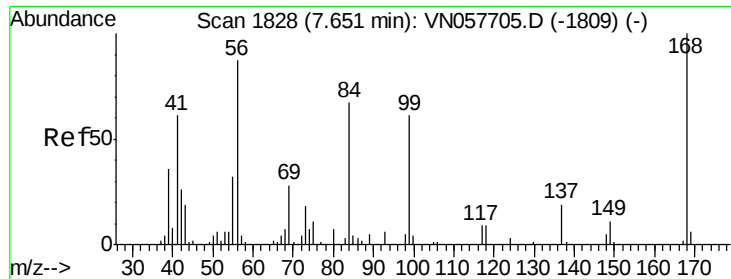
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

Instrument :

MSVOA_N

ClientSampleId :

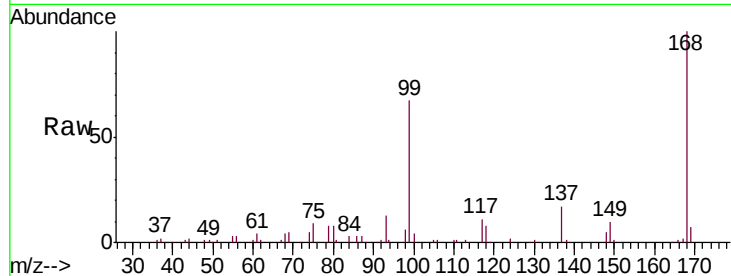
T12-F2-(0)

Tgt Ion:168 Resp: 178985

Ion Ratio Lower Upper

168 100

99 66.8 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

80000

60000

40000

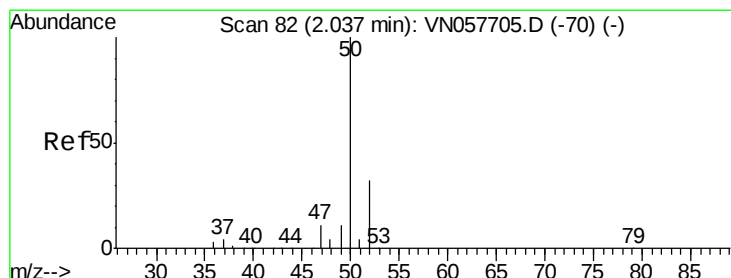
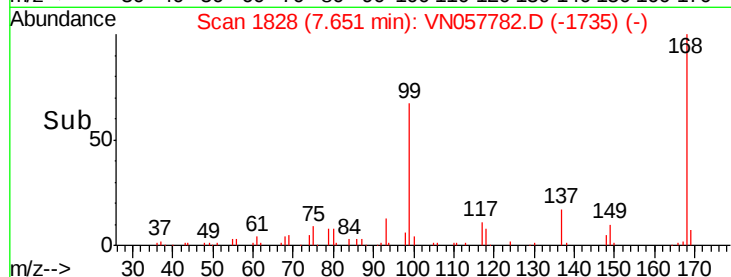
20000

0

Time-->

7.60

7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 80

Delta R.T. -0.01 min

Lab File: VN057782.D

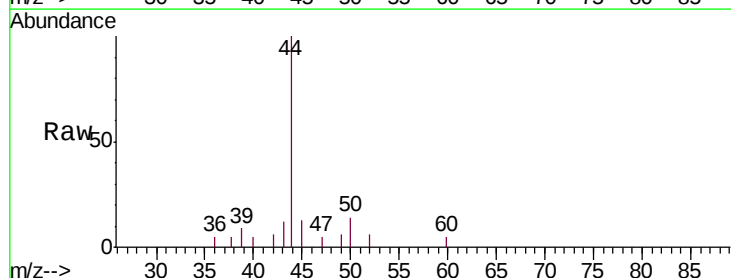
Acq: 8 Sep 2019 2:51

Tgt Ion: 50 Resp: 808

Ion Ratio Lower Upper

50 100

52 41.4 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

500

400

300

200

100

0

Time-->

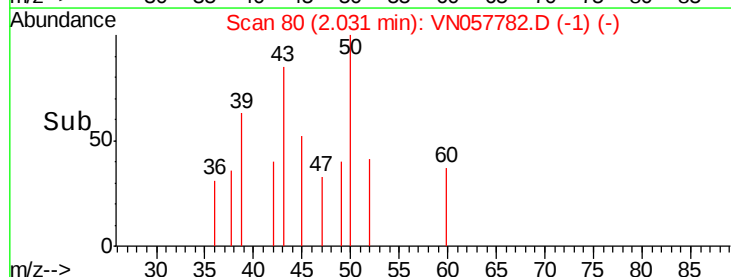
2.00

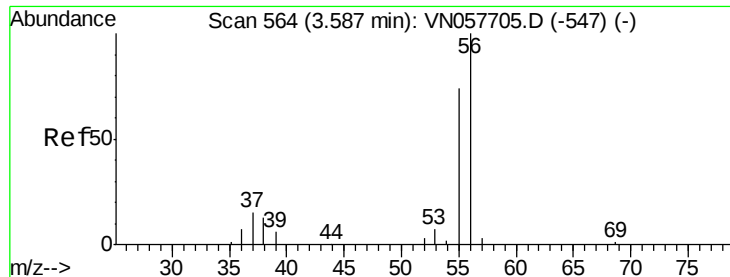
2.02

2.04

2.06

2.08





#13

Acrolein

Concen: 0.519 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.03 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

Instrument :

MSVOA_N

ClientSampleId :

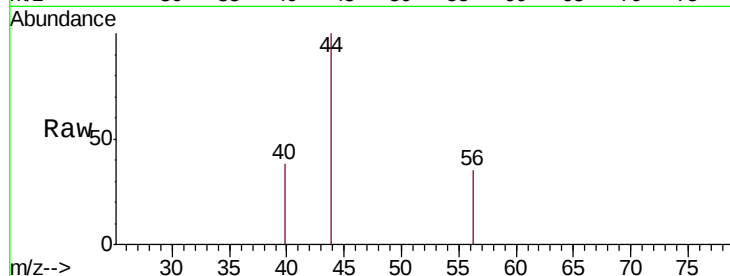
T12-F2-(0)

Tgt Ion: 56 Resp: 122

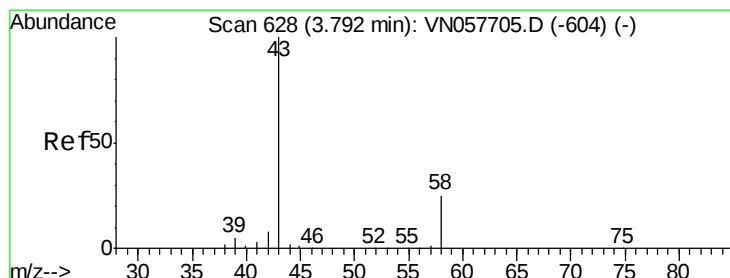
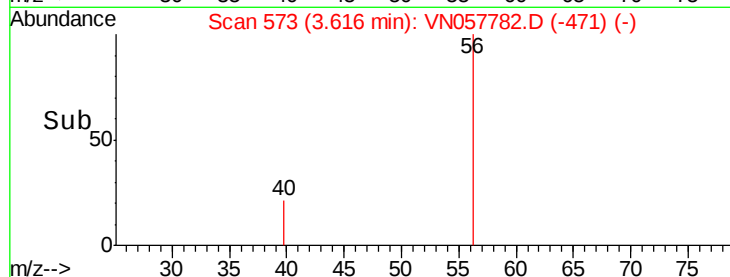
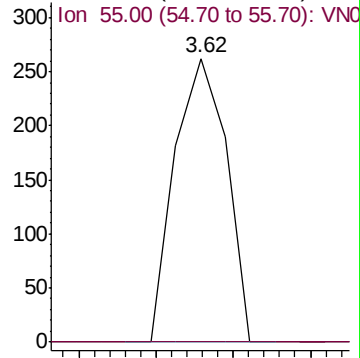
Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN057782.D (-547) (-)



#16

Acetone

Concen: 9.715 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN057782.D

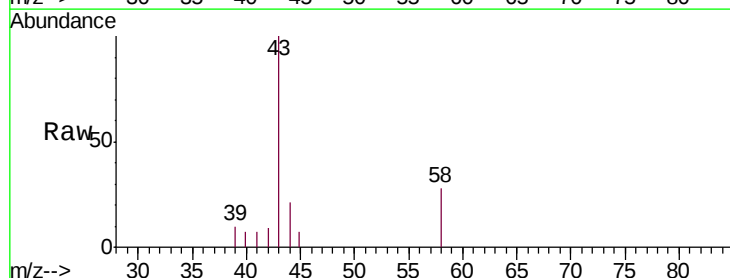
Acq: 8 Sep 2019 2:51

Tgt Ion: 43 Resp: 13017

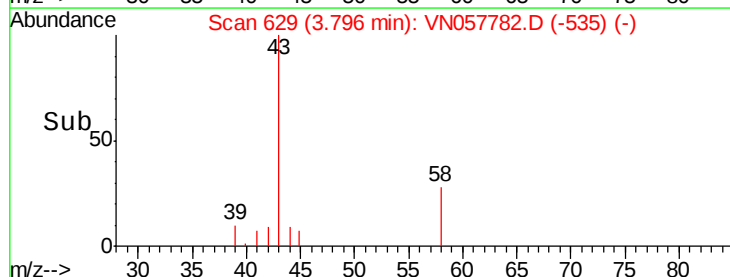
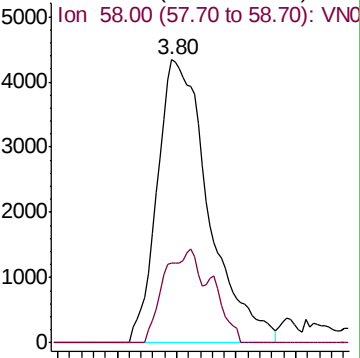
Ion Ratio Lower Upper

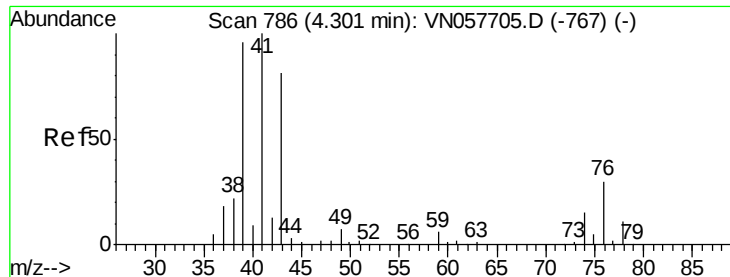
43 100

58 28.4 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN057782.D (-604) (-)

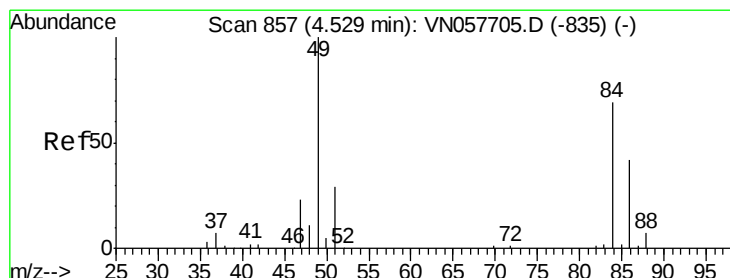
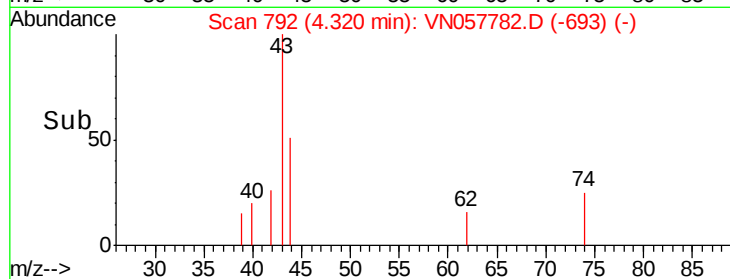
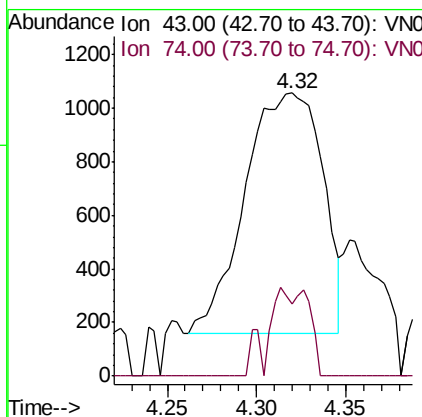
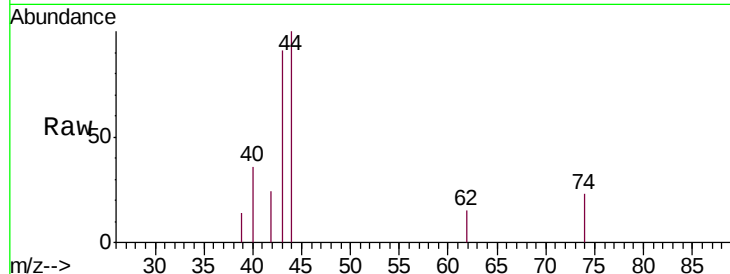




#18
Methyl Acetate
Concen: 0.741 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN057782.D
Acq: 8 Sep 2019 2:51

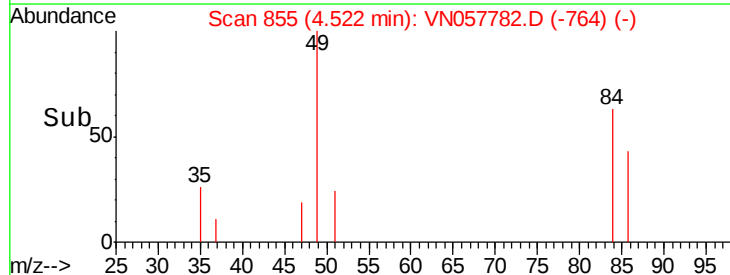
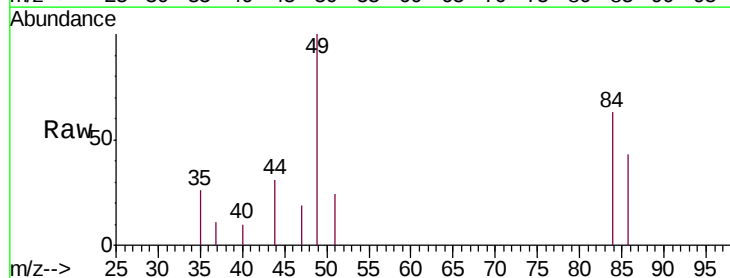
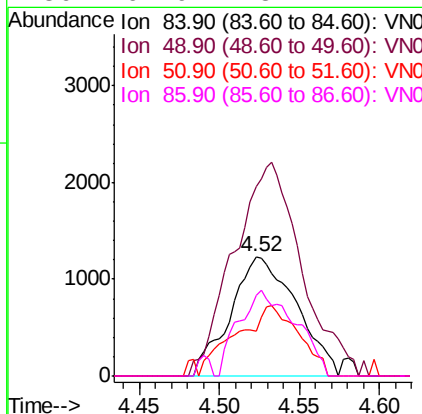
Instrument :
MSVOA_N
ClientSampled :
T12-F2-(0)

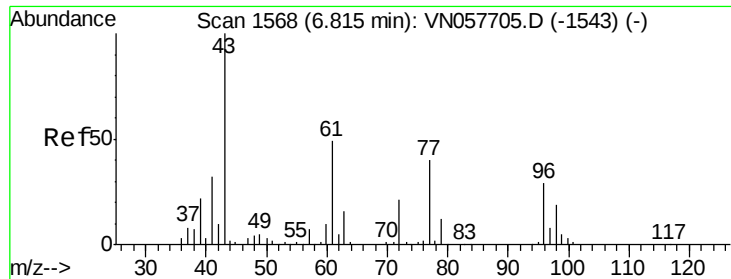
Tgt Ion: 43 Resp: 2700
Ion Ratio Lower Upper
43 100
74 9.6 15.3 22.9#



#20
Methylene Chloride
Concen: 1.205 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN057782.D
Acq: 8 Sep 2019 2:51

Tgt Ion: 84 Resp: 3492
Ion Ratio Lower Upper
84 100
49 158.8 115.0 172.6
51 38.1 33.8 50.8
86 67.9 48.2 72.2





#25

2-Butanone

Concen: 0.380 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

Instrument :

MSVOA_N

ClientSampleId :

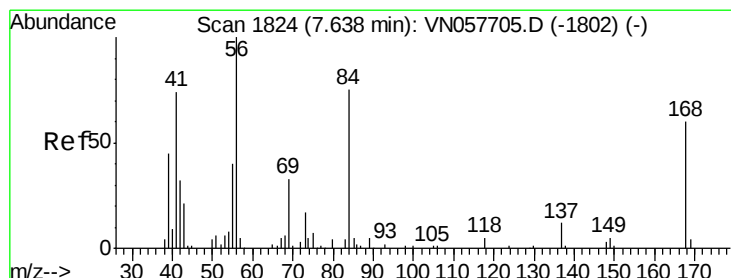
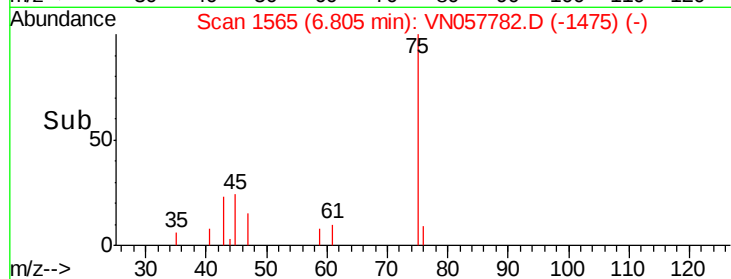
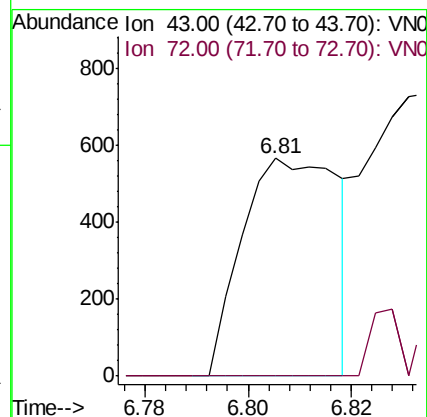
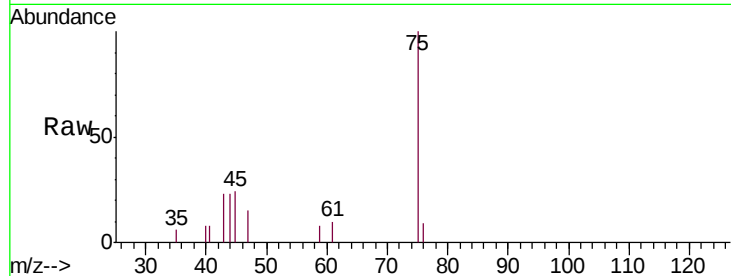
T12-F2-(0)

Tgt Ion: 43 Resp: 729

Ion Ratio Lower Upper

43 100

72 0.0 17.0 25.6#



#31

Cyclohexane

Concen: 0.647 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

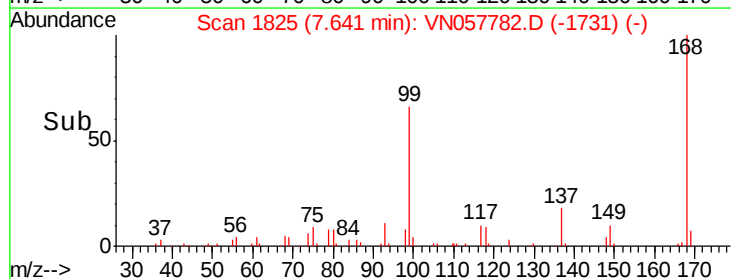
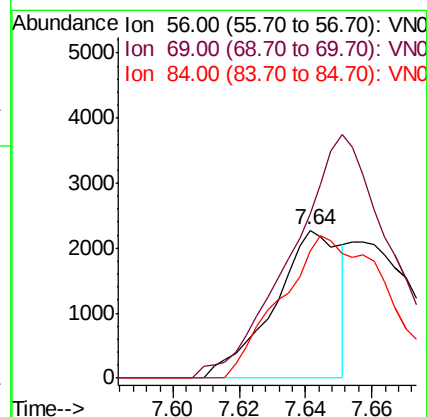
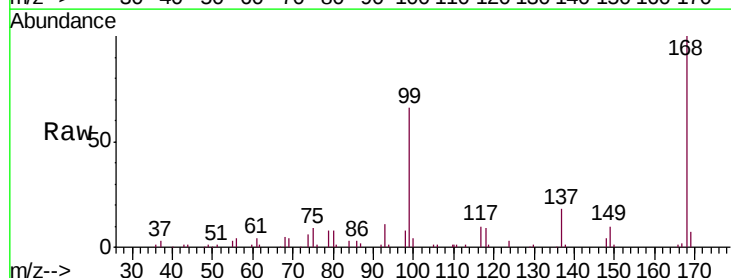
Tgt Ion: 56 Resp: 3163

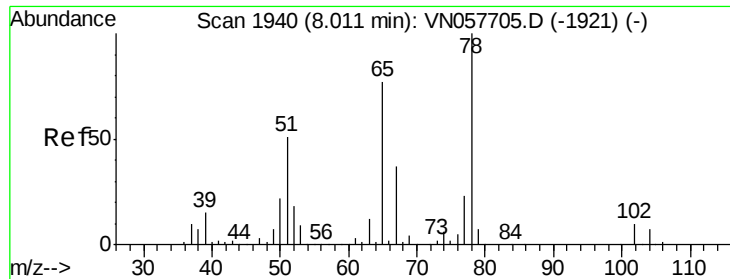
Ion Ratio Lower Upper

56 100

69 111.0 26.2 39.2#

84 85.6 59.8 89.8

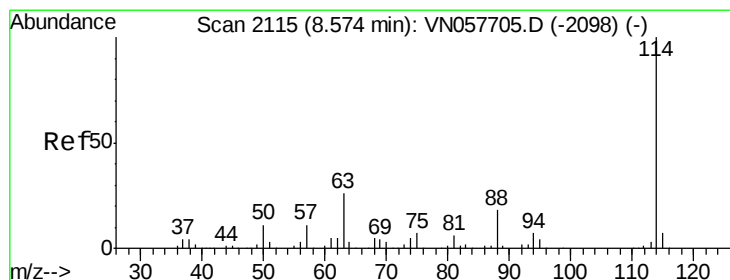
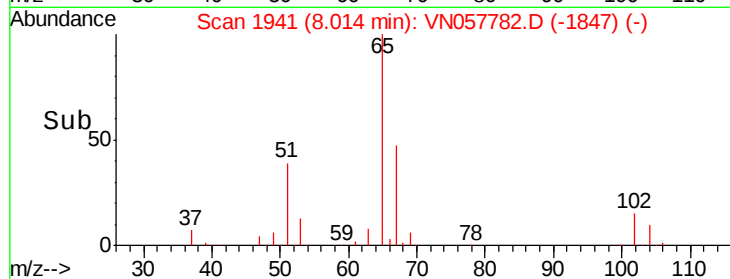
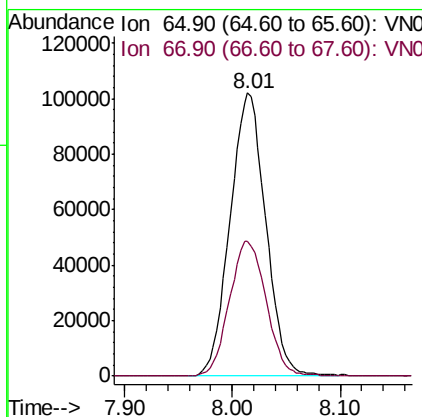
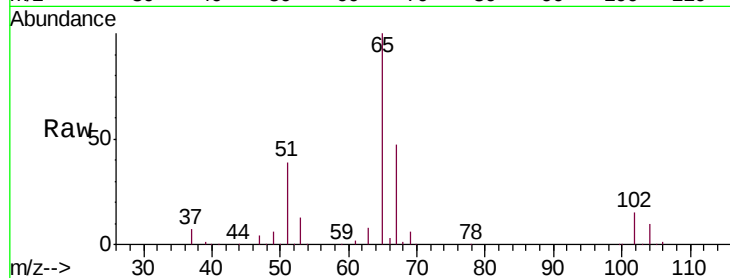




#33
 1,2-Dichloroethane-d4
 Concen: 54.020 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

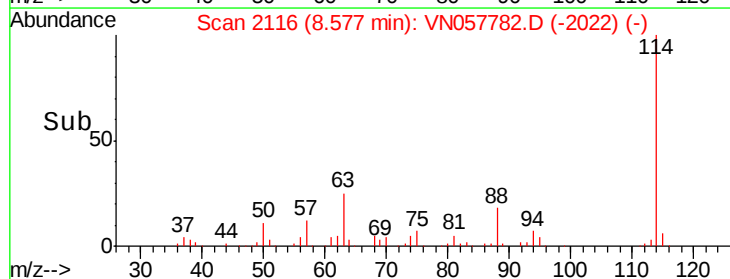
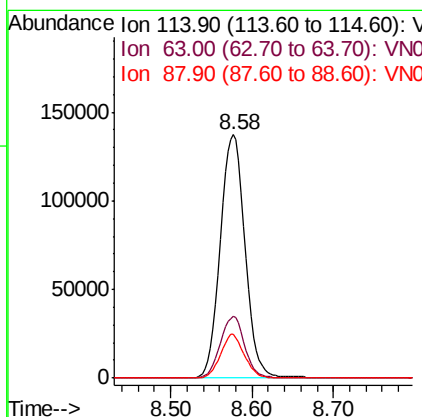
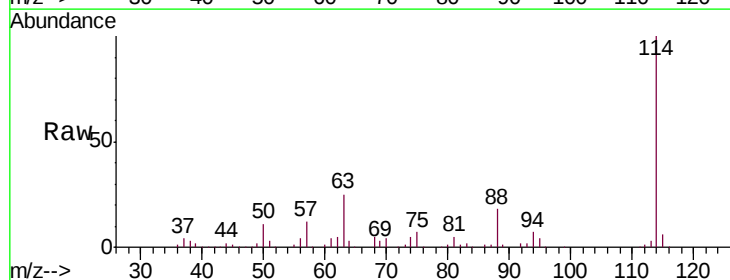
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-F2-(0)

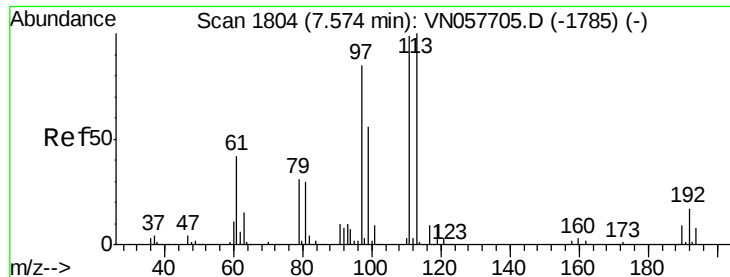
Tgt Ion: 65 Resp: 235210
 Ion Ratio Lower Upper
 65 100
 67 49.2 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

Tgt Ion: 114 Resp: 296815
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 52.4
 88 17.9 0.0 35.4

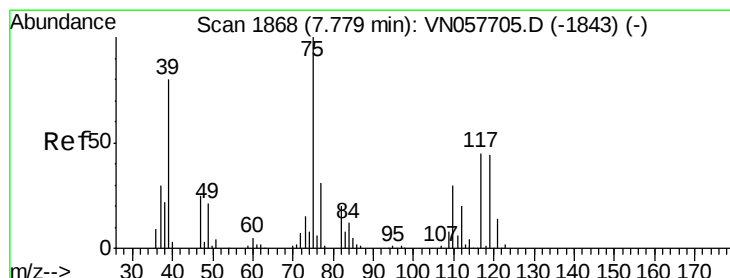
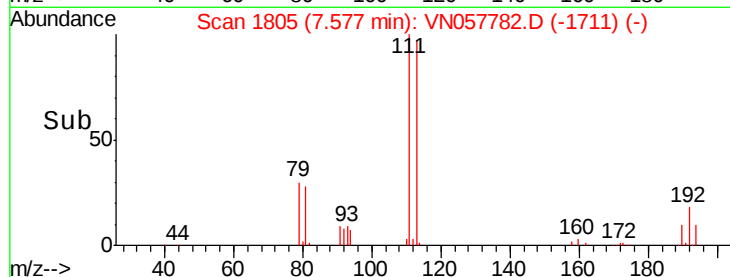
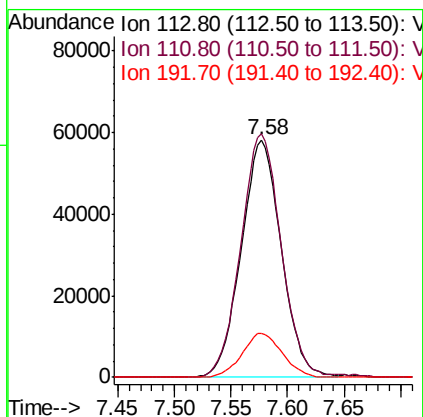
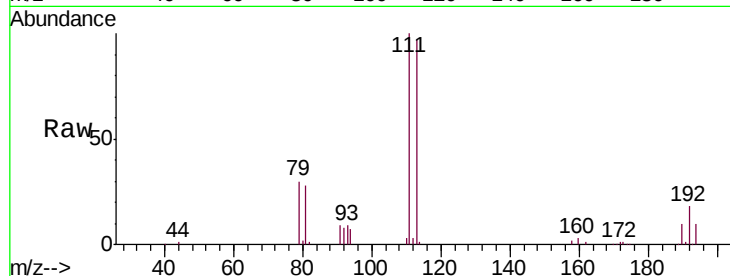




#35
 Dibromofluoromethane
 Concen: 52.954 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

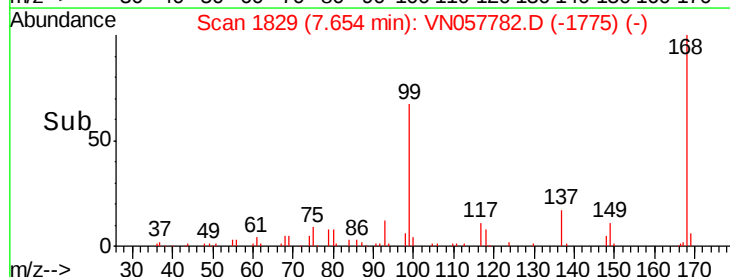
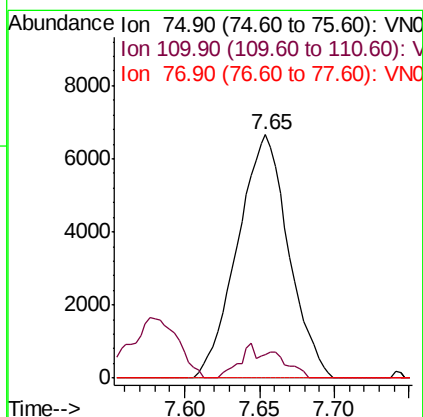
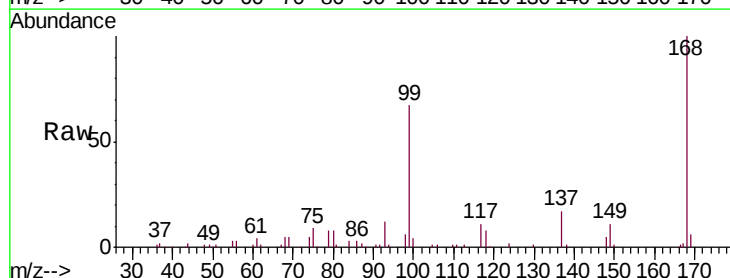
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-F2-(0)

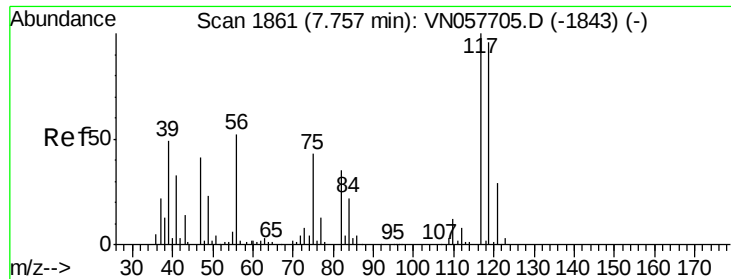
Tgt Ion: 113 Resp: 143163
 Ion Ratio Lower Upper
 113 100
 111 104.1 82.7 124.1
 192 18.6 13.8 20.6



#36
 1,1-Dichloropropene
 Concen: 3.996 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

Tgt Ion: 75 Resp: 15777
 Ion Ratio Lower Upper
 75 100
 110 5.3 15.0 45.0#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 4.950 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

Instrument :

MSVOA_N

ClientSampled :

T12-F2-(0)

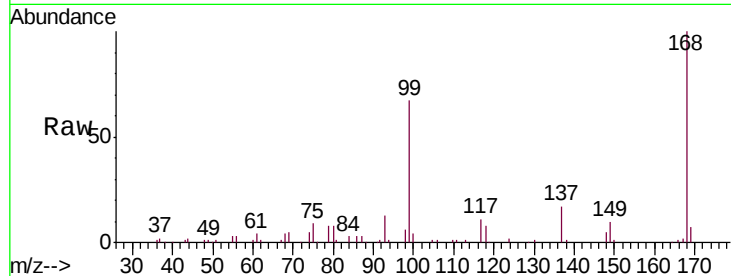
Tgt Ion:117 Resp: 18717

Ion Ratio Lower Upper

117 100

119 4.4 76.1 114.1#

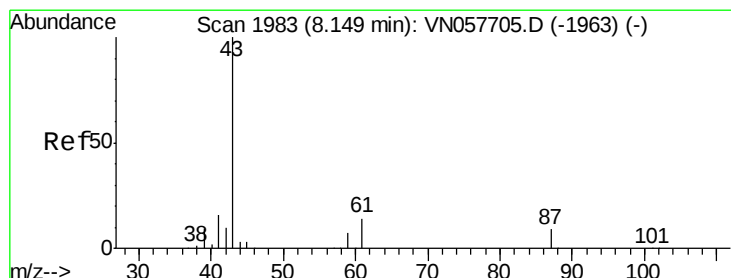
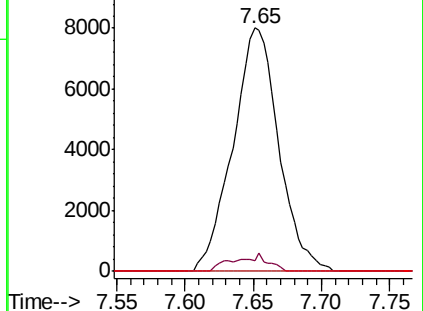
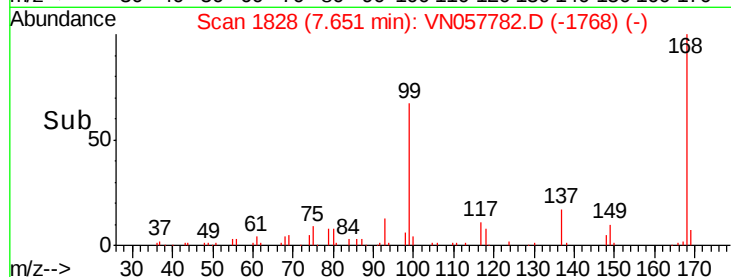
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 6.815 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

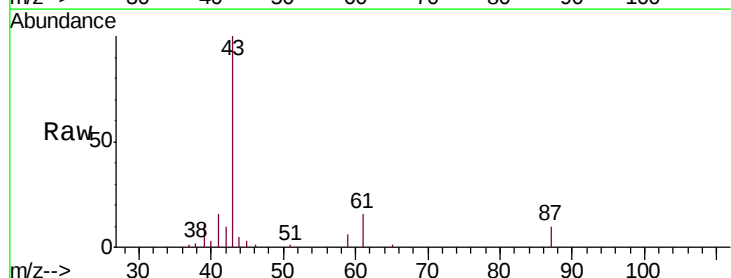
Tgt Ion: 43 Resp: 51276

Ion Ratio Lower Upper

43 100

61 16.3 12.8 19.2

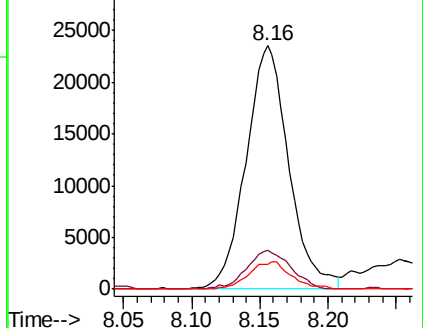
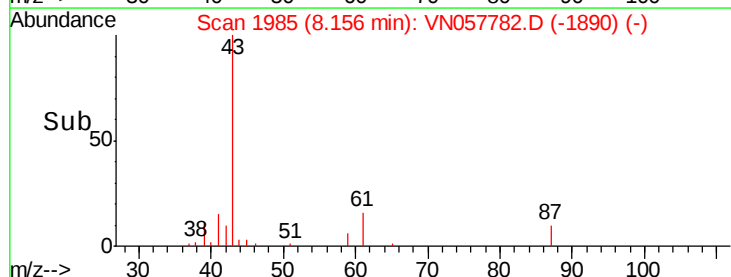
87 11.0 7.8 11.8

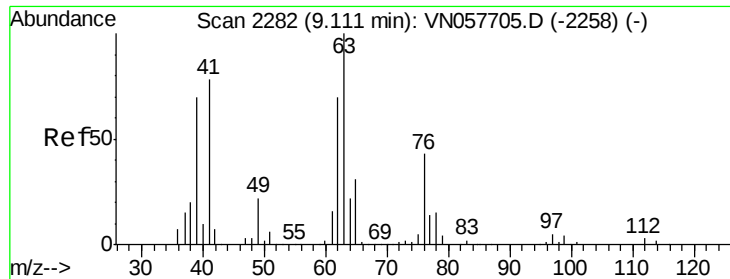


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

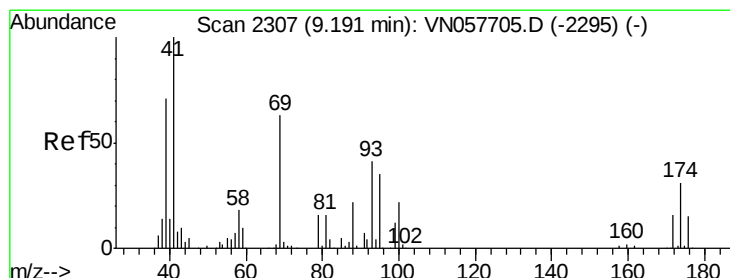
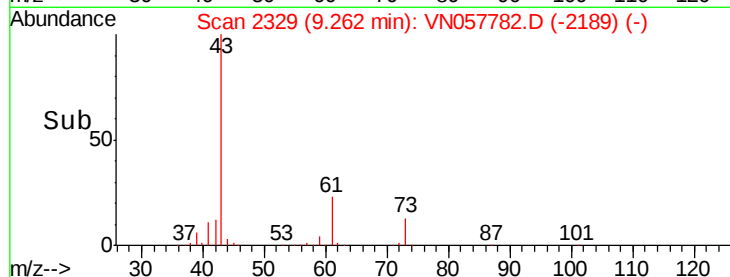
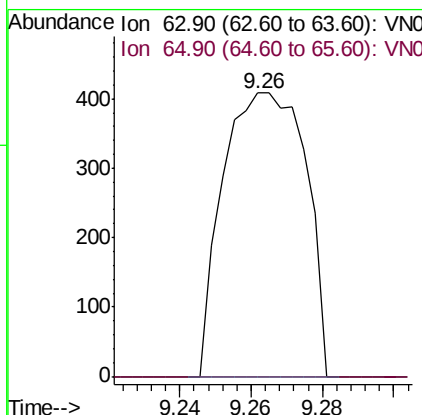
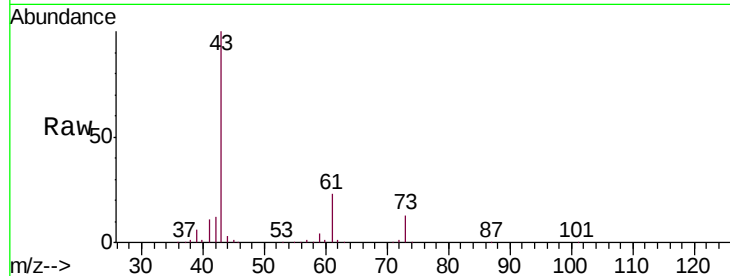




#45
 1,2-Dichloropropane
 Concen: 0.209 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

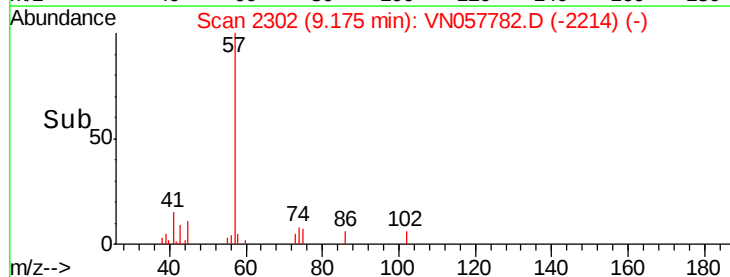
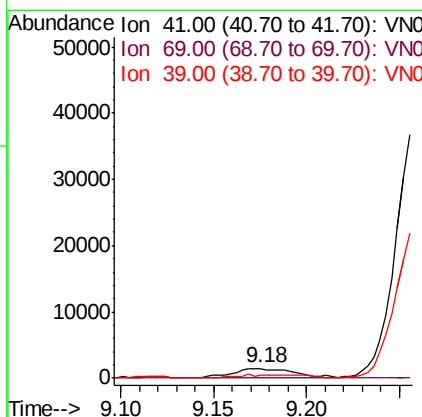
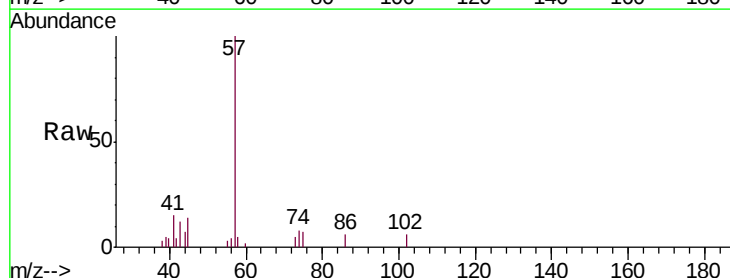
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-F2-(0)

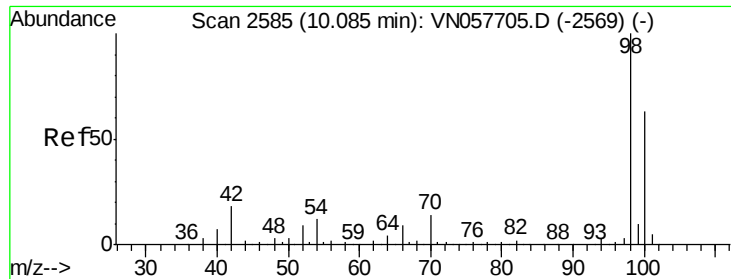
Tgt Ion: 63 Resp: 653
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.5 36.7#



#48
 Methyl methacrylate
 Concen: 0.875 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

Tgt Ion: 41 Resp: 3385
 Ion Ratio Lower Upper
 41 100
 69 0.0 51.2 76.8#
 39 0.0 57.3 85.9#





#50

Toluene-d8

Concen: 50.500 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

Instrument :

MSVOA_N

ClientSampleId :

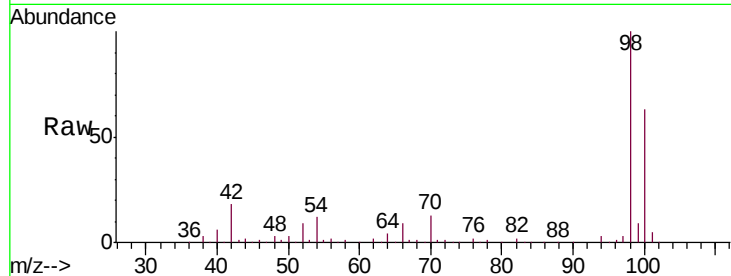
T12-F2-(0)

Tgt Ion: 98 Resp: 505049

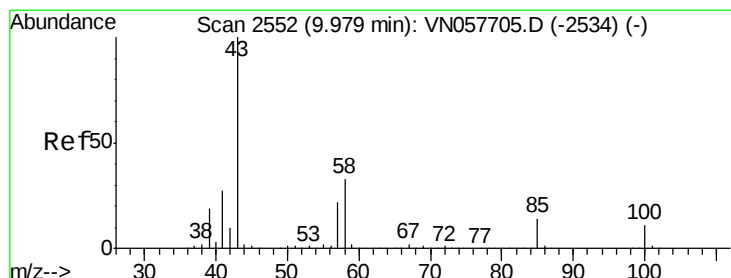
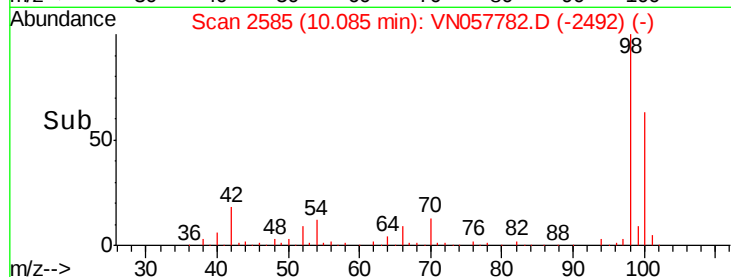
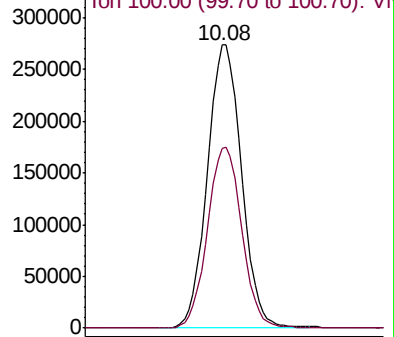
Ion Ratio Lower Upper

98 100

100 64.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN057705.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.968 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057782.D

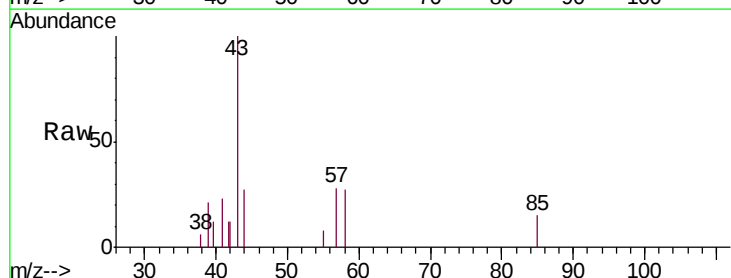
Acq: 8 Sep 2019 2:51

Tgt Ion: 43 Resp: 4045

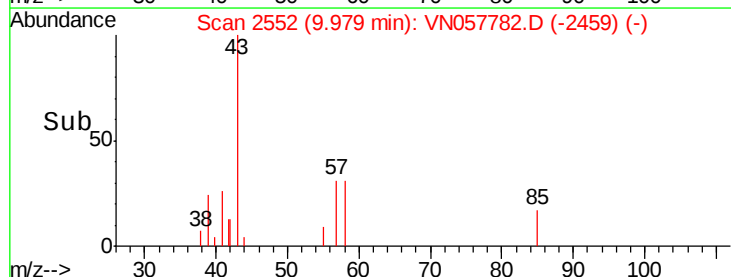
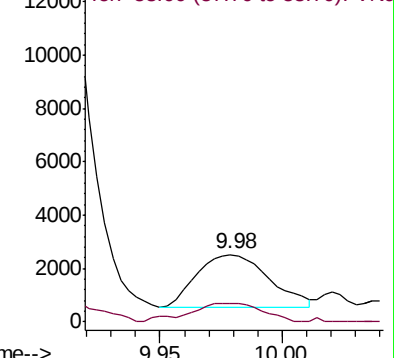
Ion Ratio Lower Upper

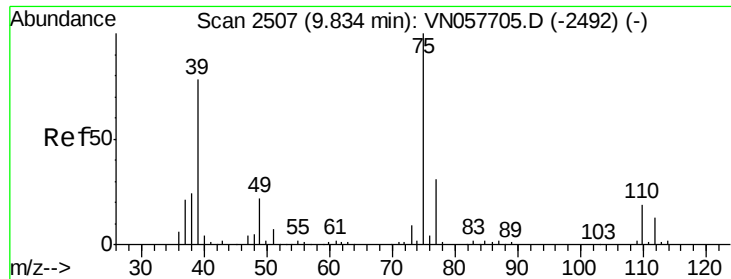
43 100

58 32.6 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-2534) (-)



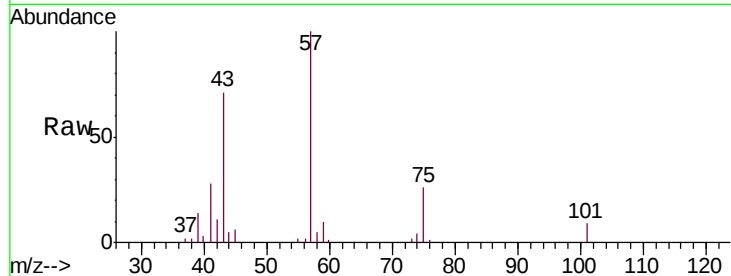


#54

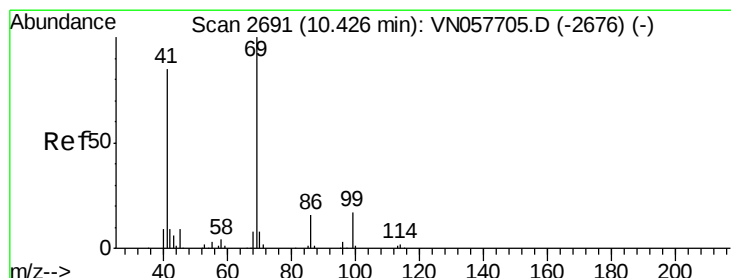
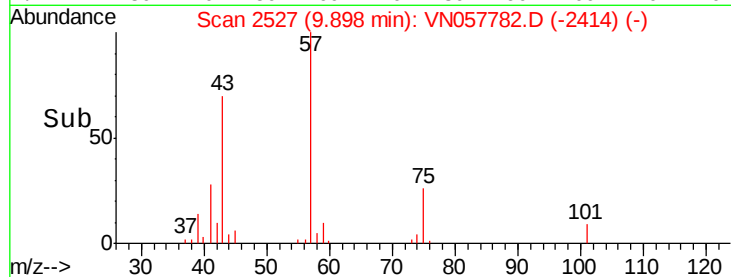
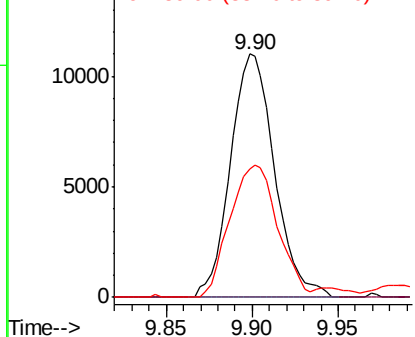
cis-1,3-Dichloropropene
 Concen: 4.267 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-F2-(0)

Tgt Ion: 75 Resp: 19696
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 52.8 62.4 93.6#



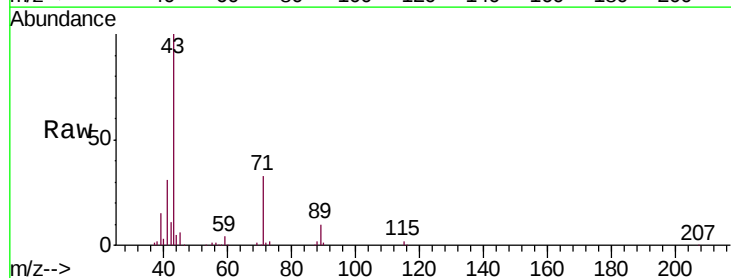
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



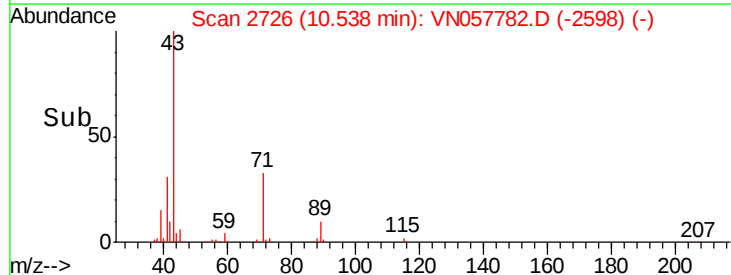
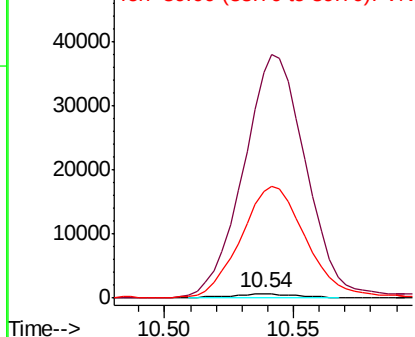
#56

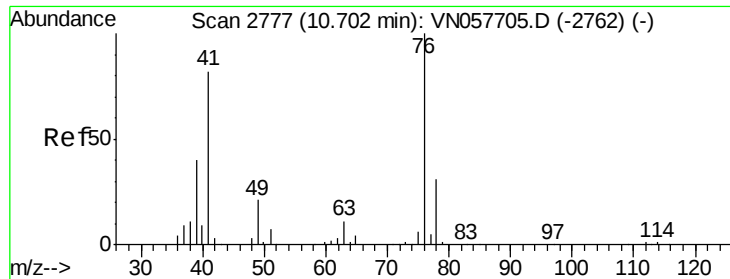
Ethyl methacrylate
 Concen: 0.282 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.11 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

Tgt Ion: 69 Resp: 1226
 Ion Ratio Lower Upper
 69 100
 41 5301.3 69.0 103.4#
 39 2529.4 49.2 73.8#



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO

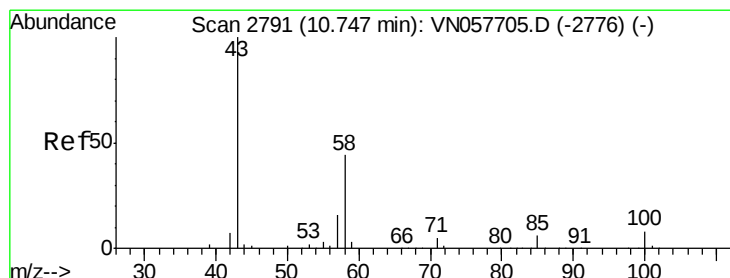
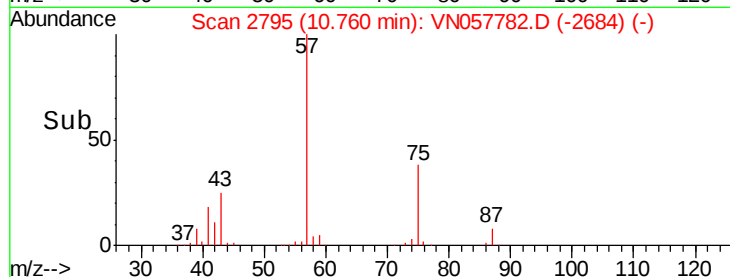
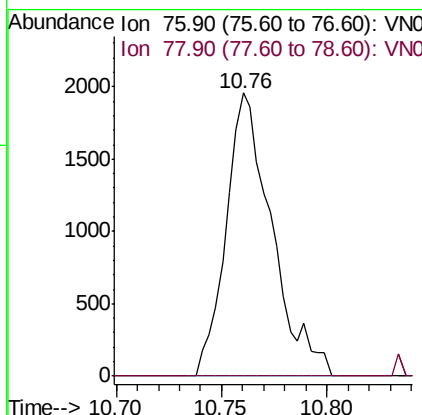
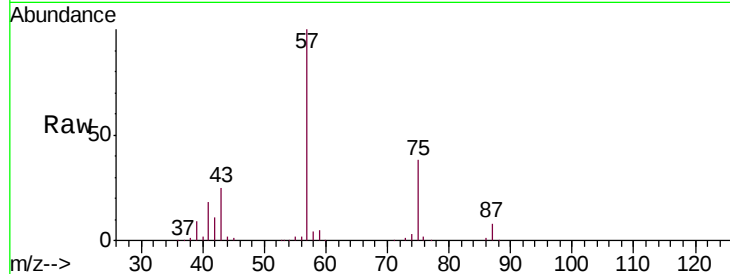




#57
 1,3-Dichloropropane
 Concen: 0.602 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

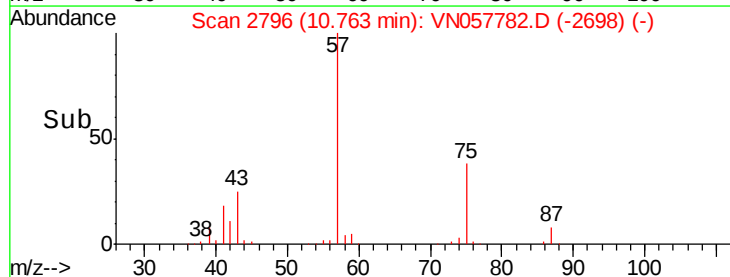
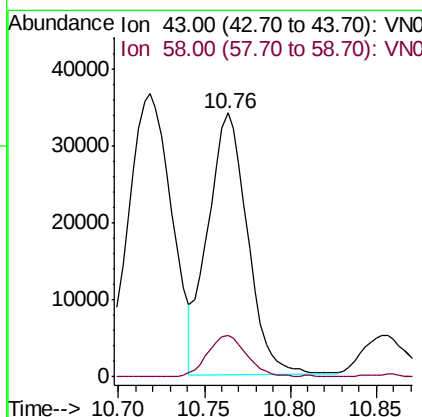
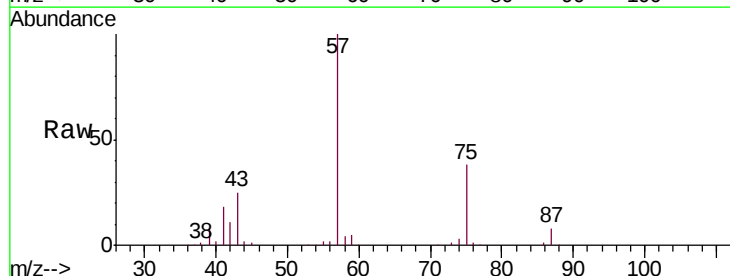
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-F2-(0)

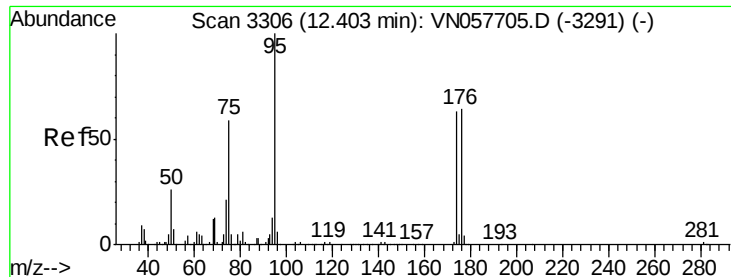
Tgt Ion: 76 Resp: 2944
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 18.523 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.02 min
 Lab File: VN057782.D
 Acq: 8 Sep 2019 2:51

Tgt Ion: 43 Resp: 54581
 Ion Ratio Lower Upper
 43 100
 58 15.8 22.1 66.5#





#62

4-Bromofluorobenzene

Concen: 42.832 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

Instrument :

MSVOA_N

ClientSampled :

T12-F2-(0)

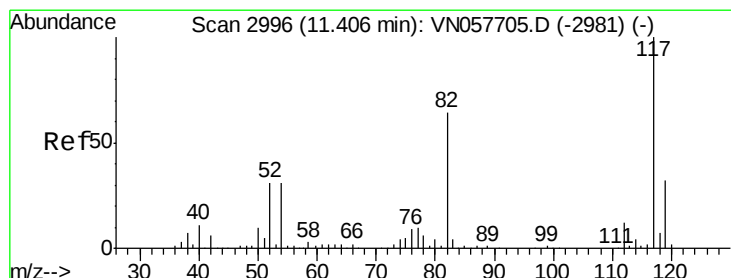
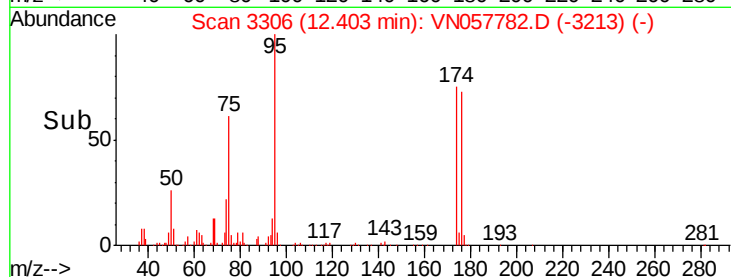
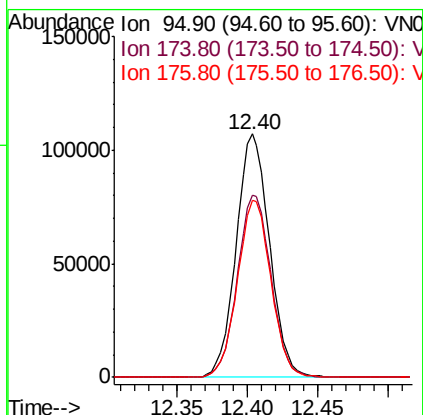
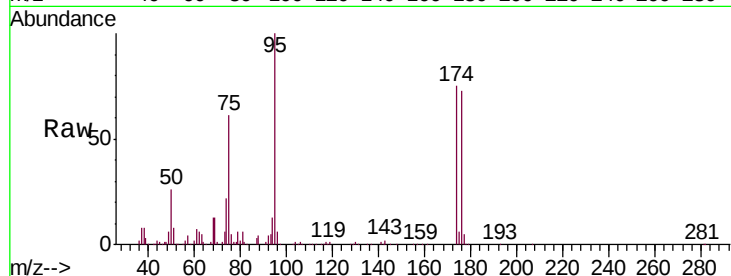
Tgt Ion: 95 Resp: 177923

Ion Ratio Lower Upper

95 100

174 75.6 0.0 128.0

176 73.0 0.0 128.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

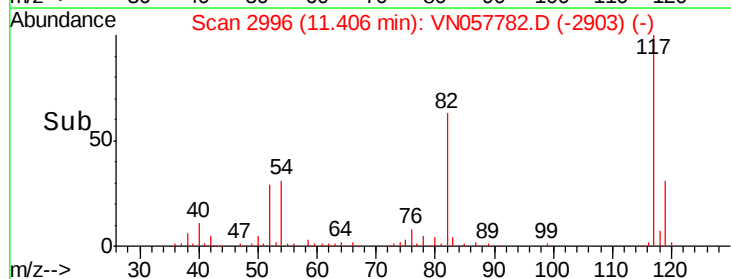
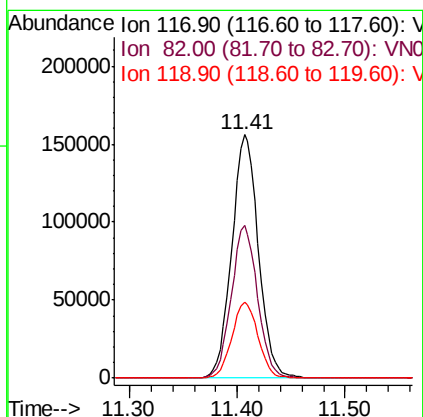
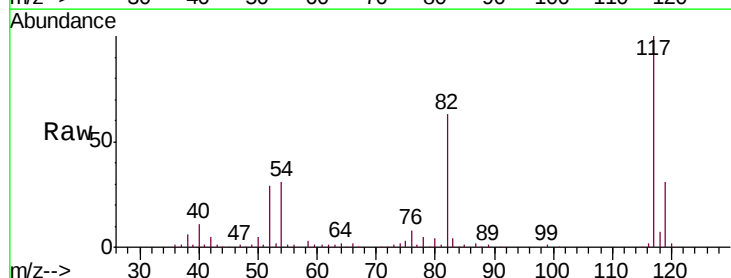
Tgt Ion: 117 Resp: 268640

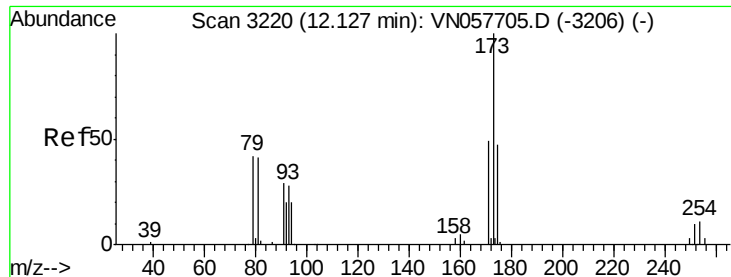
Ion Ratio Lower Upper

117 100

82 62.8 51.4 77.0

119 31.2 25.4 38.2





#71

Bromoform

Concen: 3.297 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.25 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

Instrument :

MSVOA_N

ClientSampleId :

T12-F2-(0)

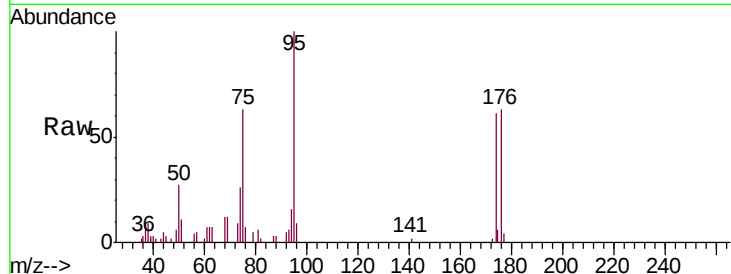
Tgt Ion:173 Resp: 107

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.8#

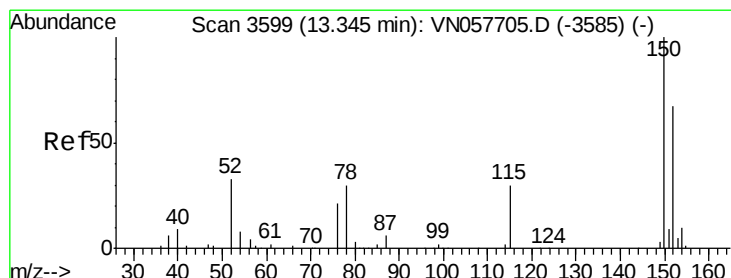
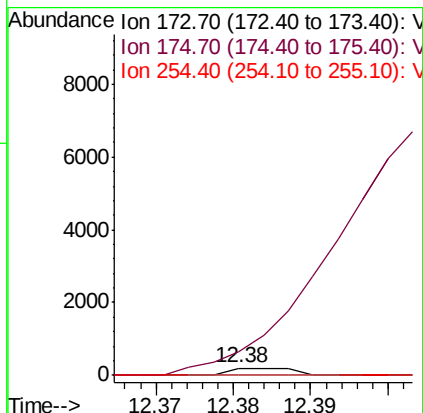
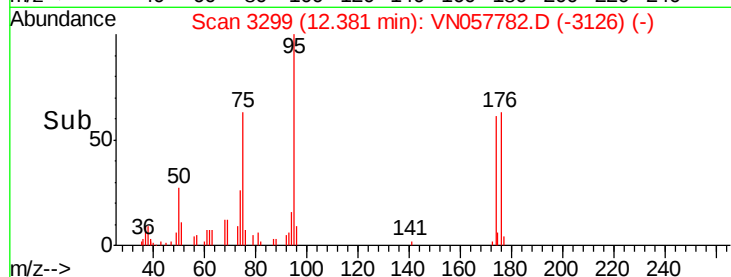
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

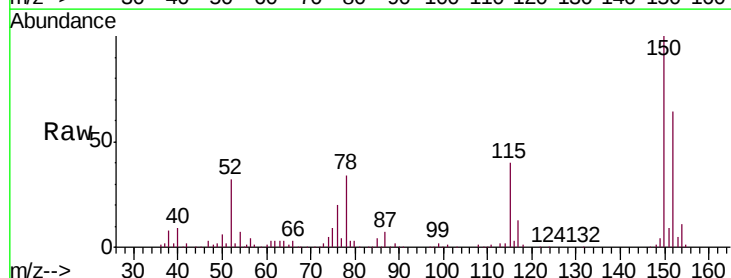
Tgt Ion:152 Resp: 130403

Ion Ratio Lower Upper

152 100

115 62.7 33.8 101.3

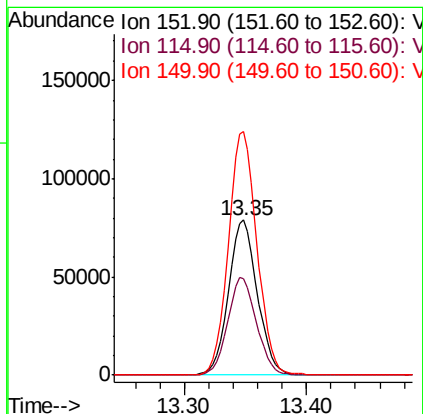
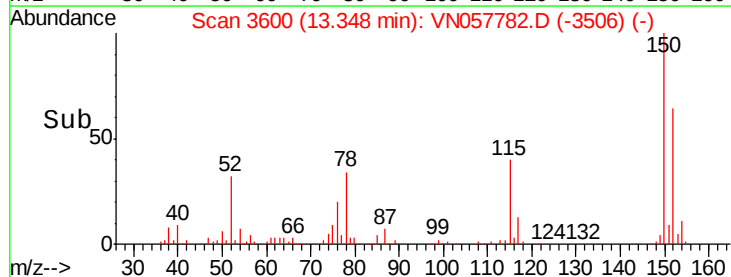
150 155.2 0.0 345.4

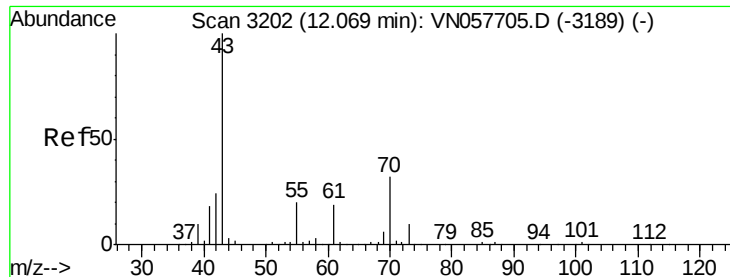


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.409 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.03 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

Instrument :

MSVOA_N

ClientSampleId :

T12-F2-(0)

Tgt Ion: 43 Resp: 2357

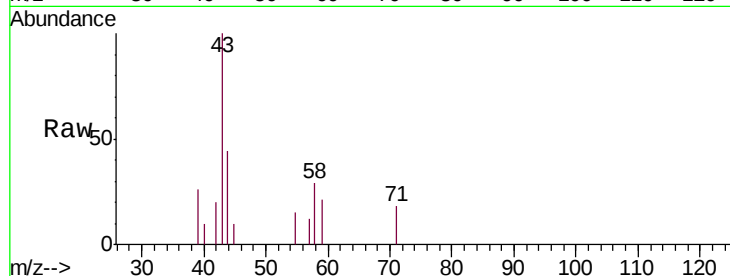
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 5.4 16.3 24.5#

61 0.0 15.0 22.4#

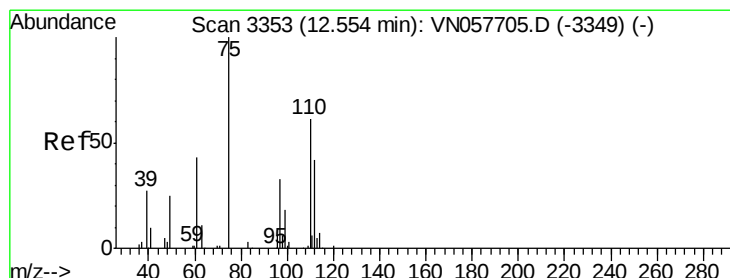
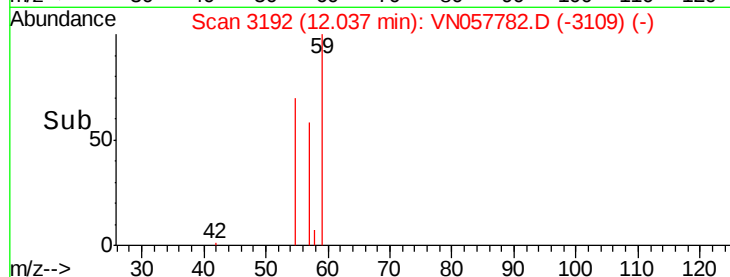
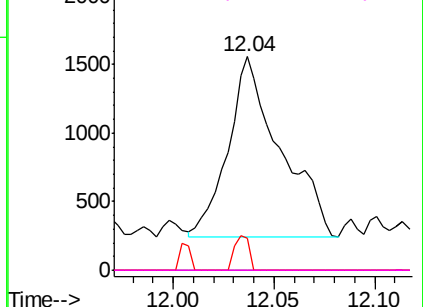


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 36.402 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057782.D

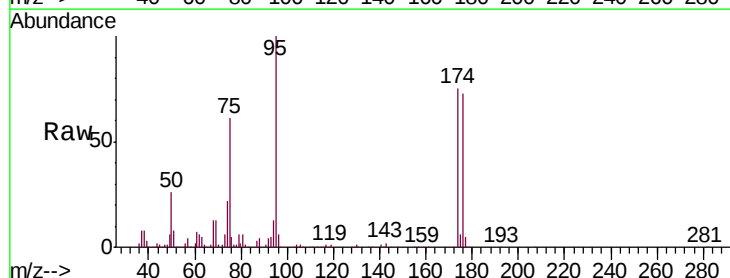
Acq: 8 Sep 2019 2:51

Tgt Ion: 75 Resp: 109007

Ion Ratio Lower Upper

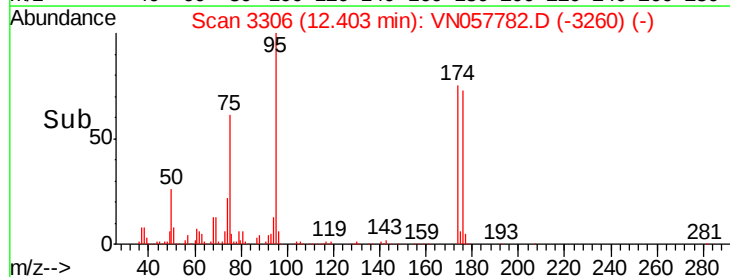
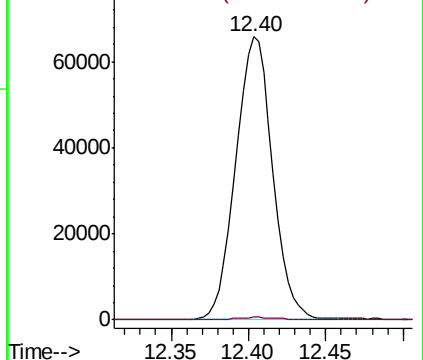
75 100

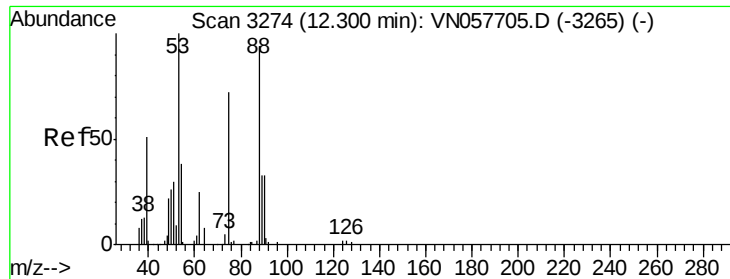
77 0.9 0.0 0.0#



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: 113.210 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057782.D

Acq: 8 Sep 2019 2:51

Instrument :

MSVOA_N

ClientSampleId :

T12-F2-(0)

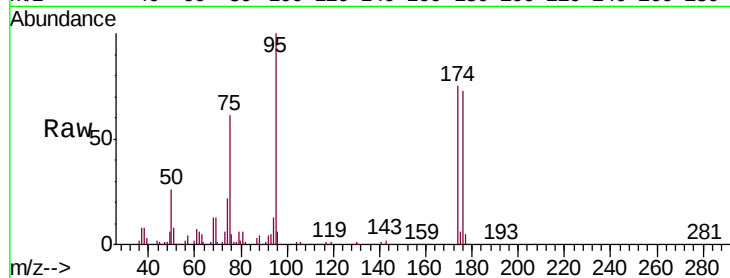
Tgt Ion: 75 Resp: 109007

Ion Ratio Lower Upper

75 100

53 0.1 107.0 160.6#

89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

