

Data File : VN057760.D
Acq On : 7 Sep 2019 17:41
Operator : JC/SP
Sample : K4581-32
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T12-D2-(0)

Quant Time: Sep 08 06:37:31 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	202544	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	326106	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	298186	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	158242	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	247969	50.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.66%	
35) Dibromofluoromethane	7.57	113	150482	50.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.32%	
50) Toluene-d8	10.09	98	569044	51.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.58%	
62) 4-Bromofluorobenzene	12.40	95	206540	45.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.52%	

Target Compounds

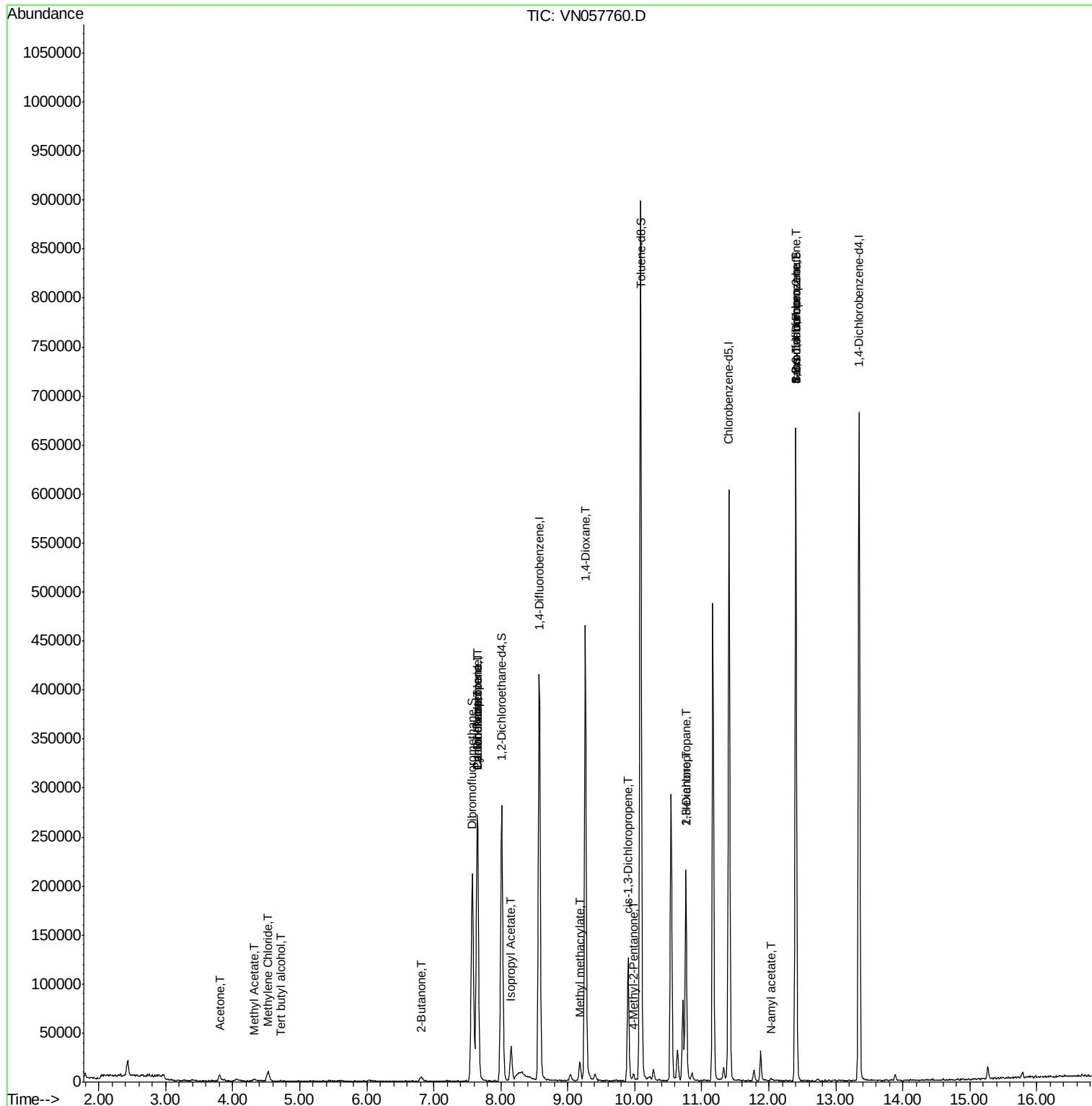
					Qvalue	
3) Chloromethane	2.03	50	591	Below Cal	#	7
11) Tert butyl alcohol	4.72	59	177	0.316	ug/l #	71
16) Acetone	3.81	43	9878	6.515	ug/l	95
18) Methyl Acetate	4.30	43	1148	0.278	ug/l #	58
20) Methylene Chloride	4.53	84	6307	1.924	ug/l #	75
25) 2-Butanone	6.82	43	650	0.299	ug/l #	55
31) Cyclohexane	7.65	56	6457	1.168	ug/l #	55
36) 1,1-Dichloropropene	7.65	75	18800	4.333	ug/l #	54
38) Carbon Tetrachloride	7.65	117	22501	5.417	ug/l #	15
43) Isopropyl Acetate	8.15	43	43075	5.210	ug/l #	93
48) Methyl methacrylate	9.18	41	3608	0.849	ug/l #	38
49) 1,4-Dioxane	9.27	88	64	1.294	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	3057	0.666	ug/l #	64
54) cis-1,3-Dichloropropene	9.90	75	19046	3.756	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	2117	0.394	ug/l #	43
59) 2-Hexanone	10.76	43	36161	11.169	ug/l #	56
71) Bromoform	12.41	173	796	3.610	ug/l #	1
74) N-amyl acetate	12.03	43	2506	0.359	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	125803	34.620	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	125803	107.668	ug/l #	1

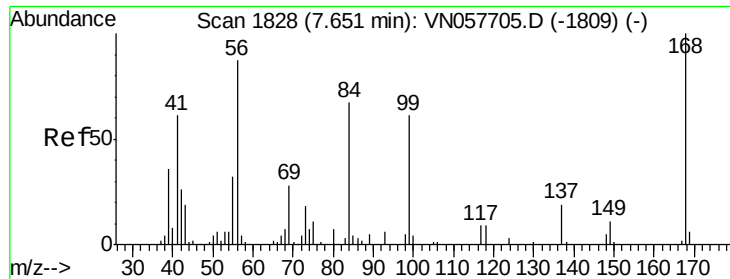
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057760.D

Acq: 7 Sep 2019 17:41

Instrument :

MSVOA_N

ClientSampleId :

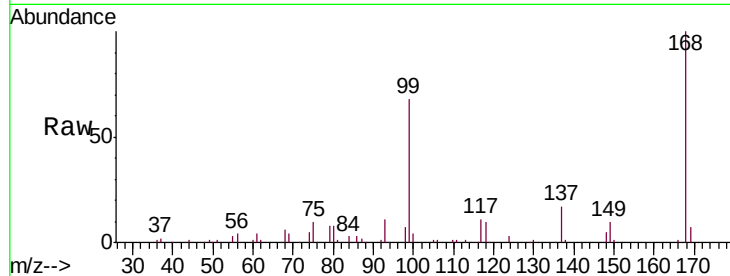
T12-D2-(0)

Tgt Ion:168 Resp: 202544

Ion Ratio Lower Upper

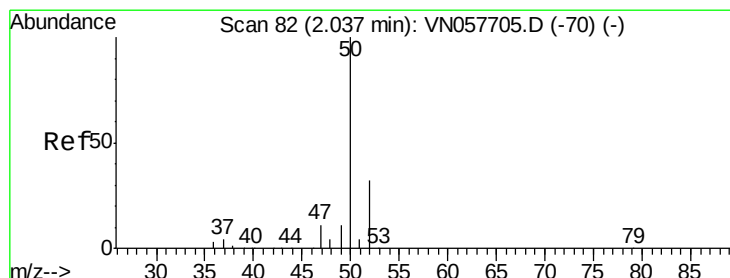
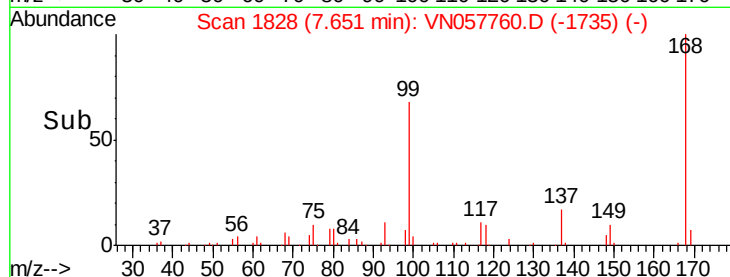
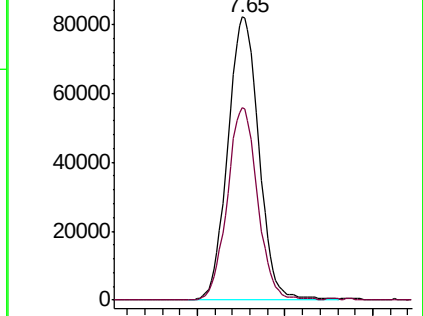
168 100

99 68.0 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN057760.D

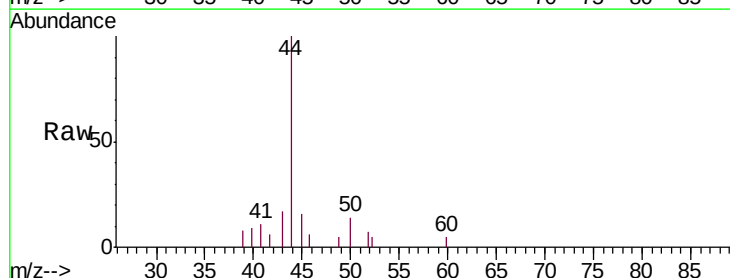
Acq: 7 Sep 2019 17:41

Tgt Ion: 50 Resp: 591

Ion Ratio Lower Upper

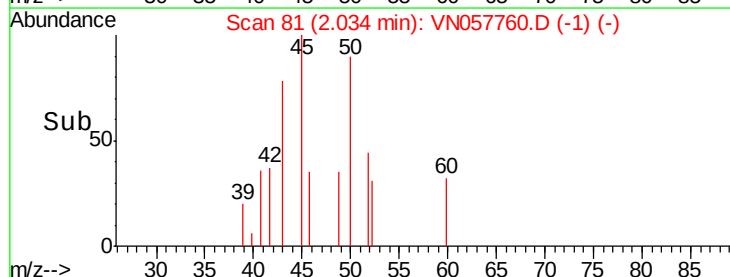
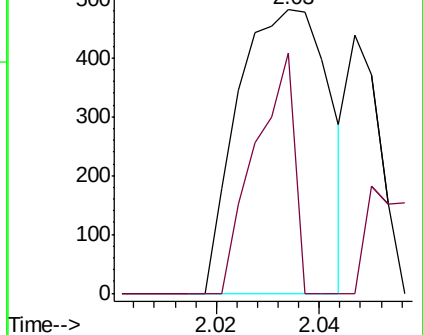
50 100

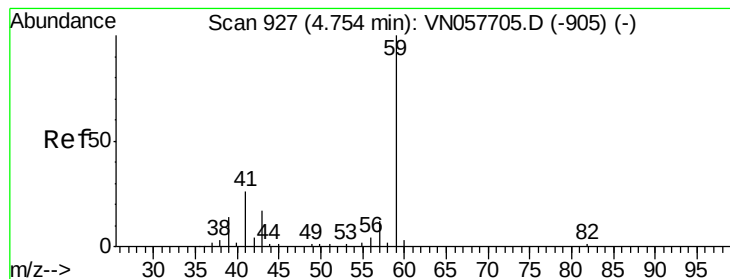
52 84.6 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN



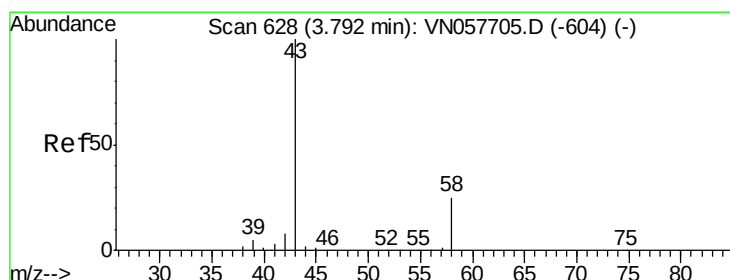
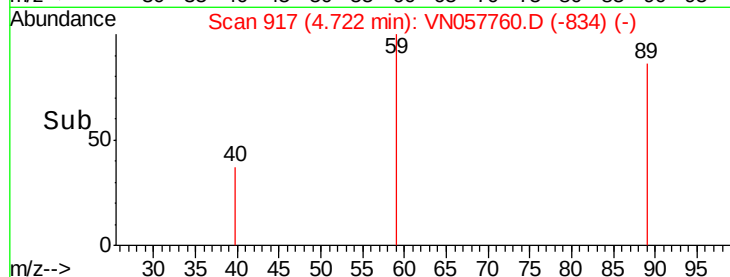
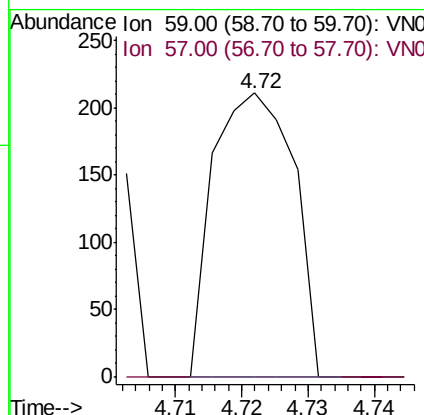
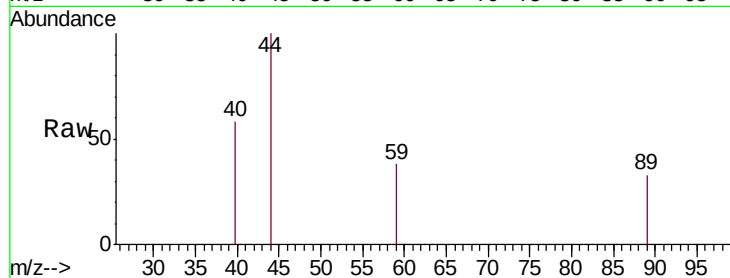


#11

Tert butyl alcohol
 Concen: 0.316 ug/l
 RT: 4.72 min Scan# 917
 Delta R.T. -0.03 min
 Lab File: VN057760.D
 Acq: 7 Sep 2019 17:41

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-D2-(0)

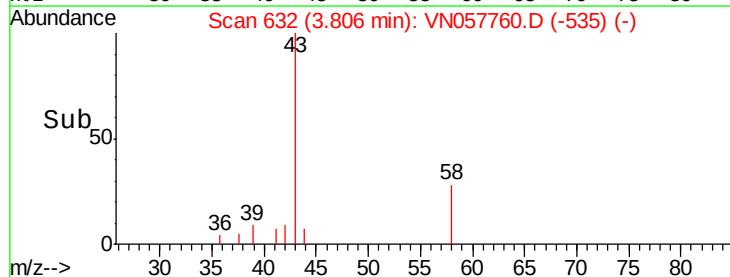
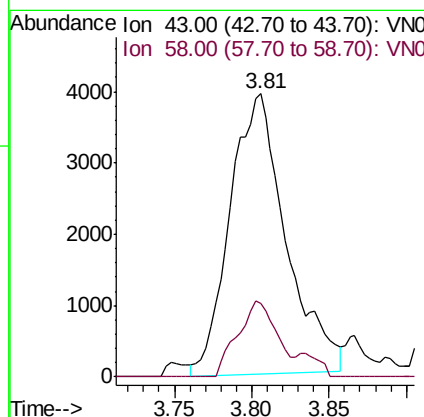
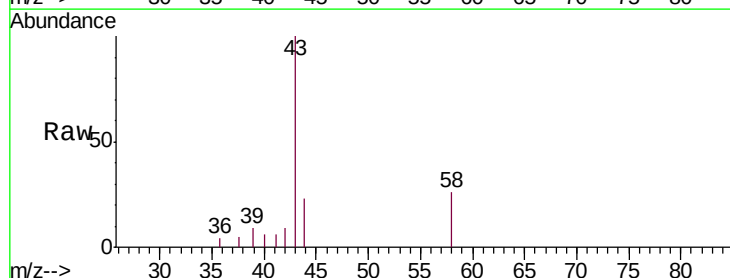
Tgt Ion: 59 Resp: 177
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.9 13.3#

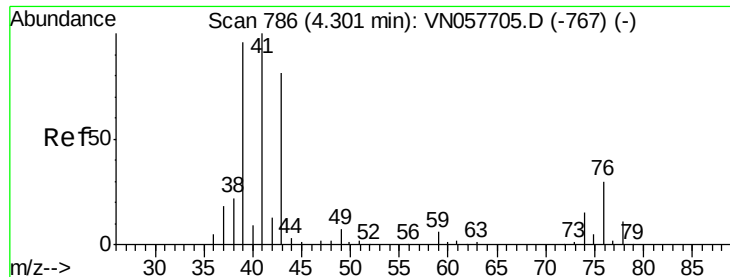


#16

Acetone
 Concen: 6.515 ug/l
 RT: 3.81 min Scan# 632
 Delta R.T. 0.01 min
 Lab File: VN057760.D
 Acq: 7 Sep 2019 17:41

Tgt Ion: 43 Resp: 9878
 Ion Ratio Lower Upper
 43 100
 58 27.4 19.8 29.8

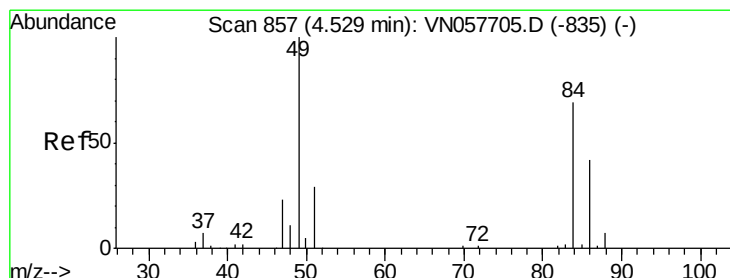
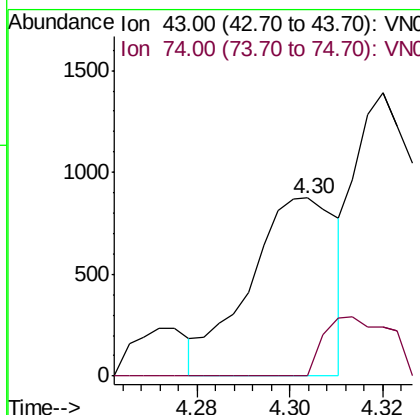
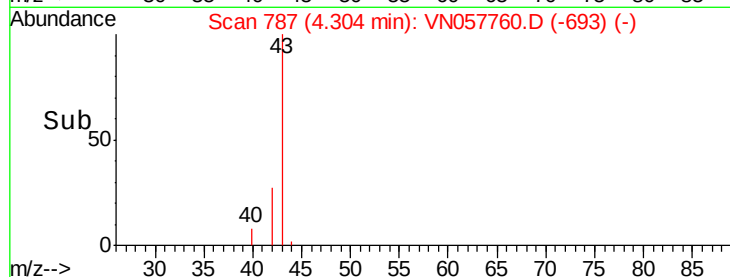
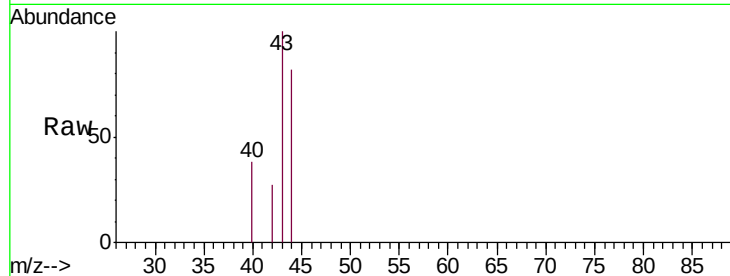




#18
Methyl Acetate
Concen: 0.278 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN057760.D
Acq: 7 Sep 2019 17:41

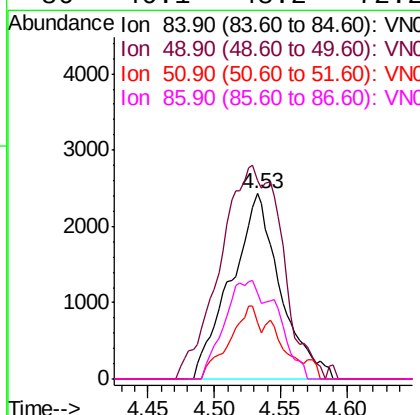
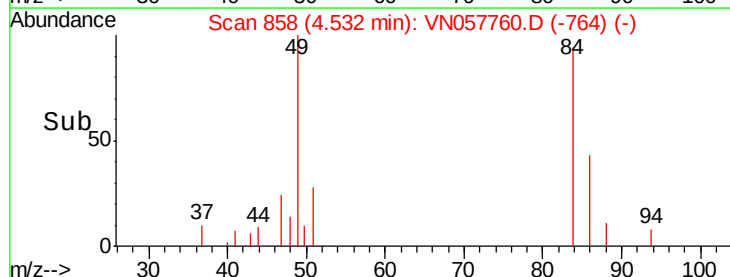
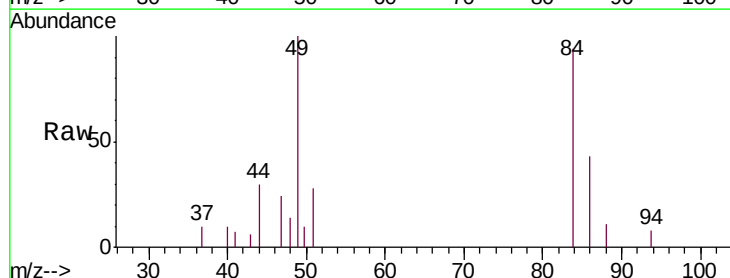
Instrument :
MSVOA_N
ClientSampleId :
T12-D2-(0)

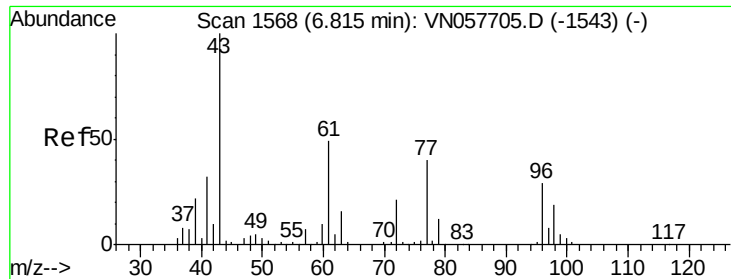
Tgt Ion: 43 Resp: 1148
Ion Ratio Lower Upper
43 100
74 0.0 15.3 22.9#



#20
Methylene Chloride
Concen: 1.924 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN057760.D
Acq: 7 Sep 2019 17:41

Tgt Ion: 84 Resp: 6307
Ion Ratio Lower Upper
84 100
49 106.8 115.0 172.6#
51 30.4 33.8 50.8#
86 46.1 48.2 72.2#

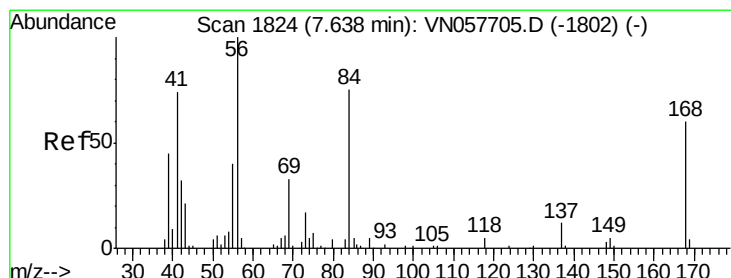
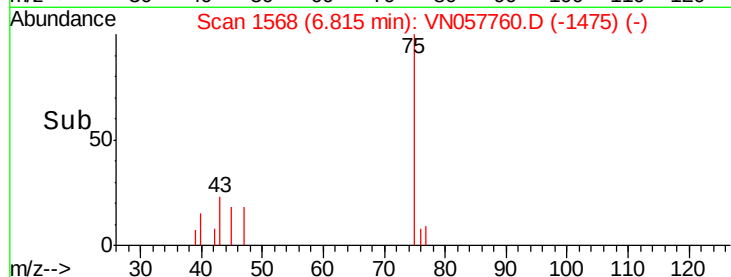
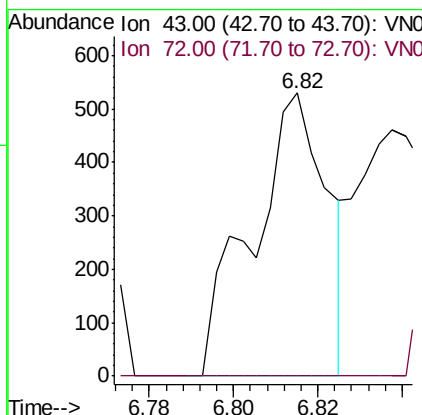
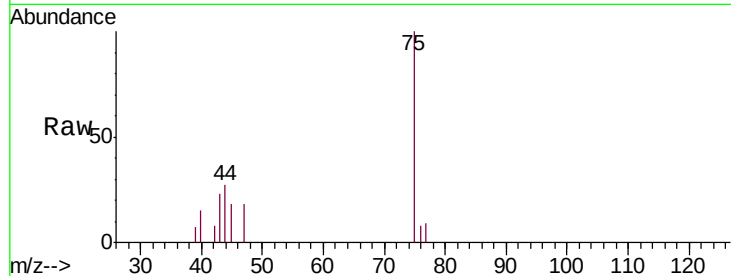




#25
2-Butanone
Concen: 0.299 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VN057760.D
Acq: 7 Sep 2019 17:41

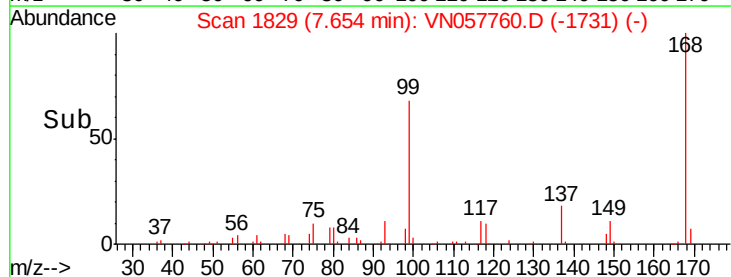
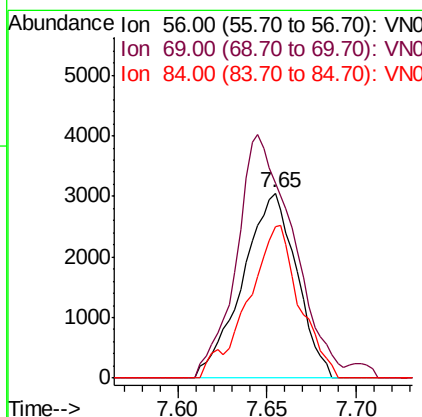
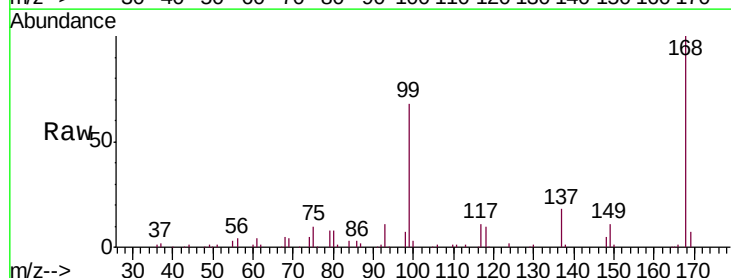
Instrument :
MSVOA_N
ClientSampleId :
T12-D2-(0)

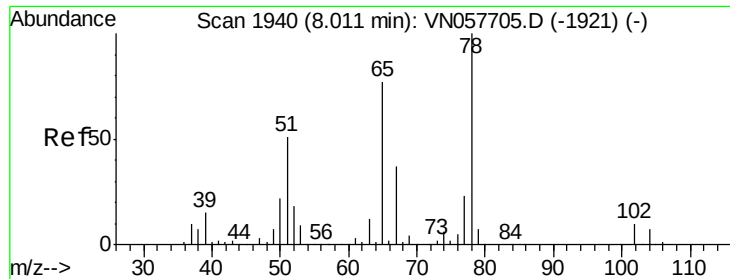
Tgt Ion: 43 Resp: 650
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.6#



#31
Cyclohexane
Concen: 1.168 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057760.D
Acq: 7 Sep 2019 17:41

Tgt Ion: 56 Resp: 6457
Ion Ratio Lower Upper
56 100
69 105.3 26.2 39.2#
84 81.5 59.8 89.8

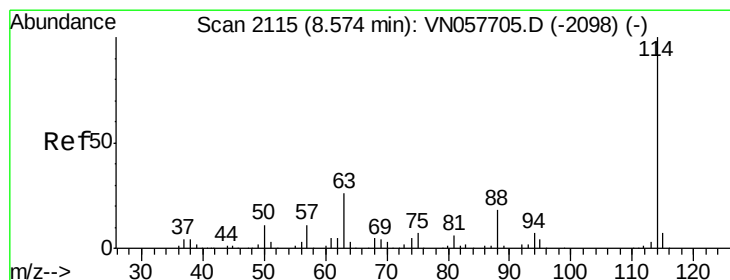
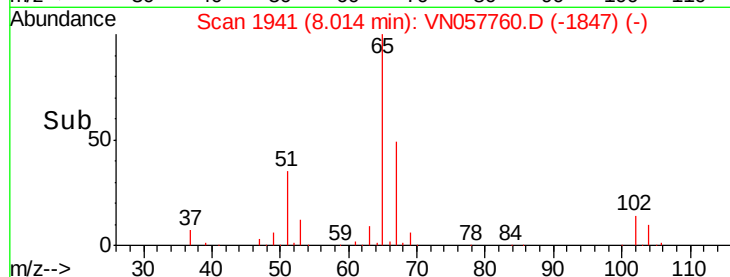
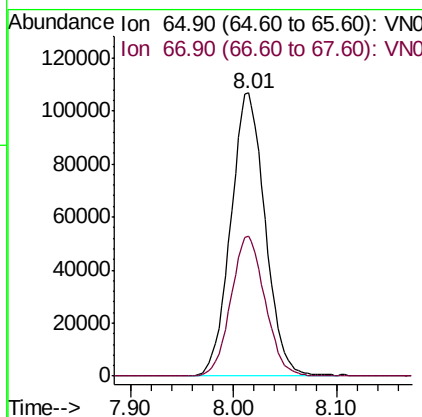
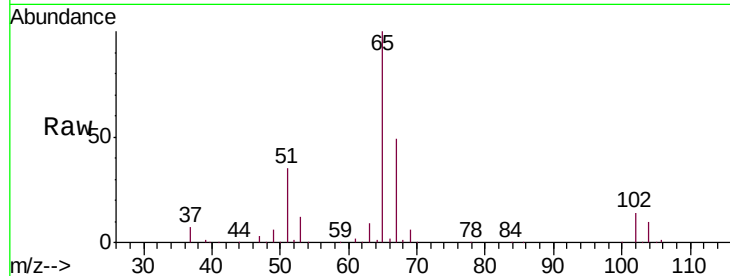




#33
 1,2-Dichloroethane-d4
 Concen: 50.326 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057760.D
 Acq: 7 Sep 2019 17:41

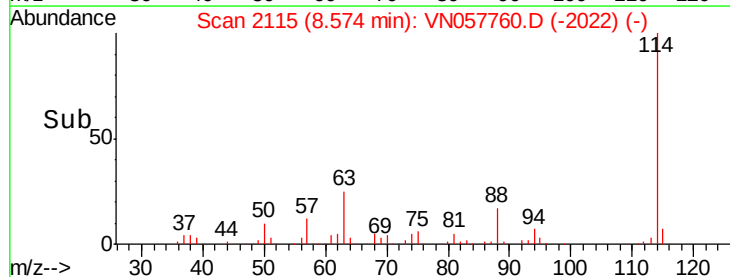
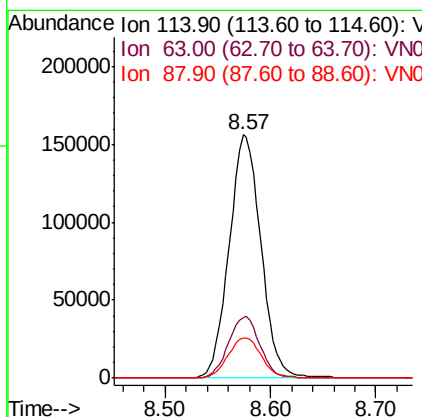
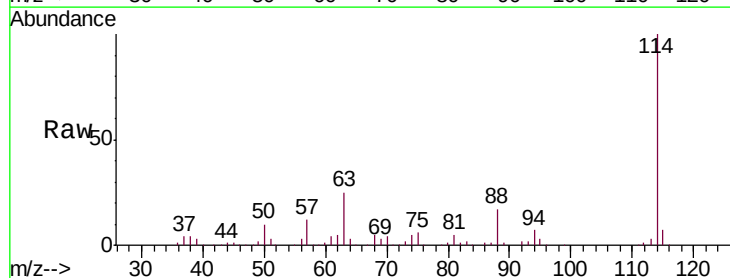
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-D2-(0)

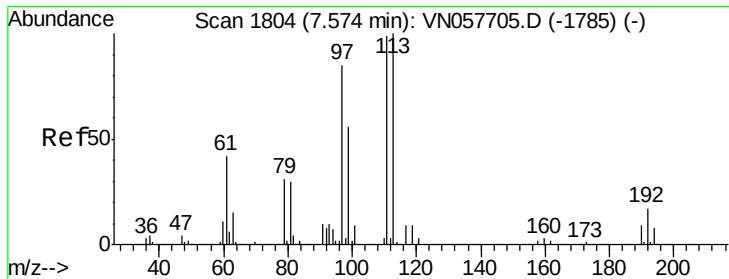
Tgt Ion: 65 Resp: 247969
 Ion Ratio Lower Upper
 65 100
 67 49.0 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057760.D
 Acq: 7 Sep 2019 17:41

Tgt Ion: 114 Resp: 326106
 Ion Ratio Lower Upper
 114 100
 63 25.1 0.0 52.4
 88 16.7 0.0 35.4





#35

Dibromofluoromethane

Concen: 50.662 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN057760.D

Acq: 7 Sep 2019 17:41

Instrument :

MSVOA_N

ClientSampleId :

T12-D2-(0)

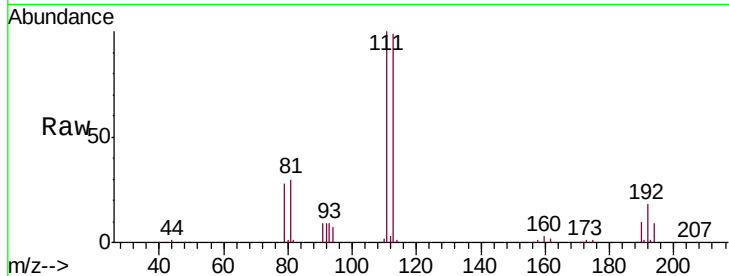
Tgt Ion:113 Resp: 150482

Ion Ratio Lower Upper

113 100

111 101.8 82.7 124.1

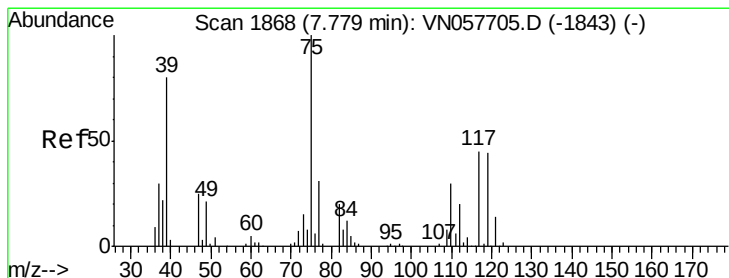
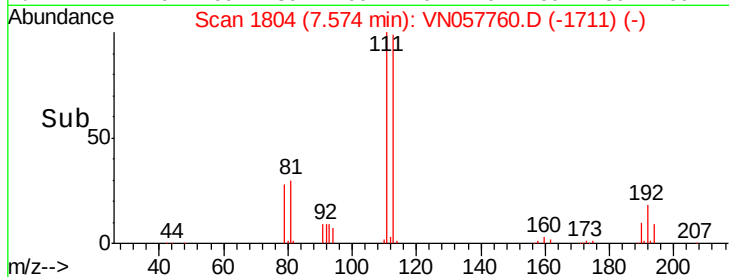
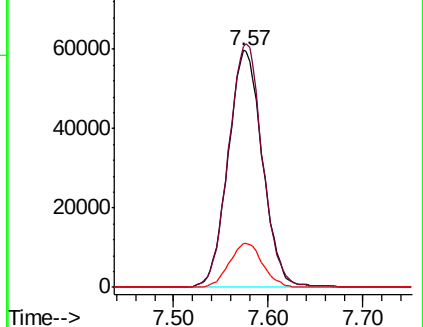
192 18.1 13.8 20.6



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: 4.333 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057760.D

Acq: 7 Sep 2019 17:41

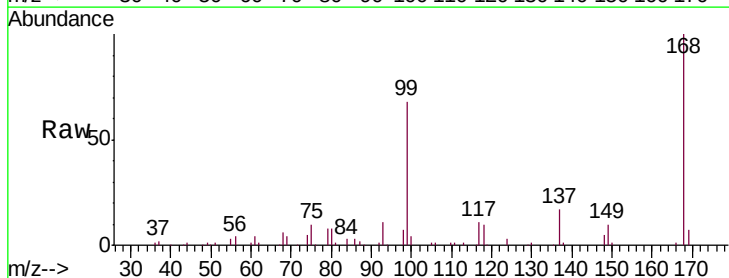
Tgt Ion: 75 Resp: 18800

Ion Ratio Lower Upper

75 100

110 10.3 15.0 45.0#

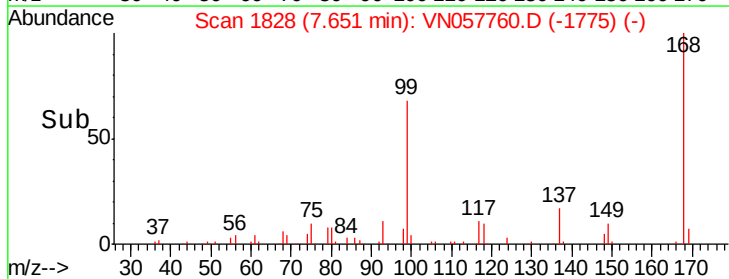
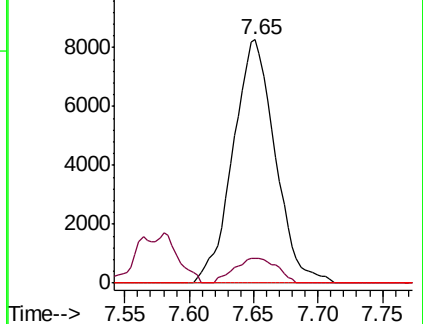
77 0.0 24.6 37.0#

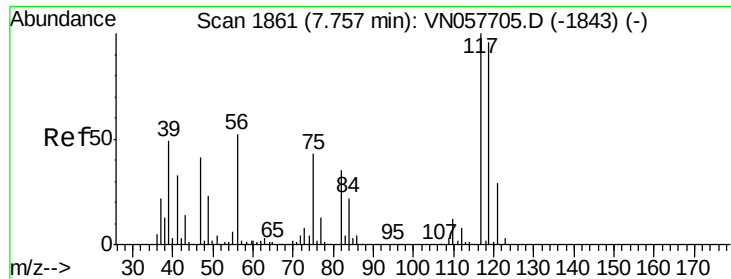


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.417 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057760.D

Acq: 7 Sep 2019 17:41

Instrument :

MSVOA_N

ClientSampled :

T12-D2-(0)

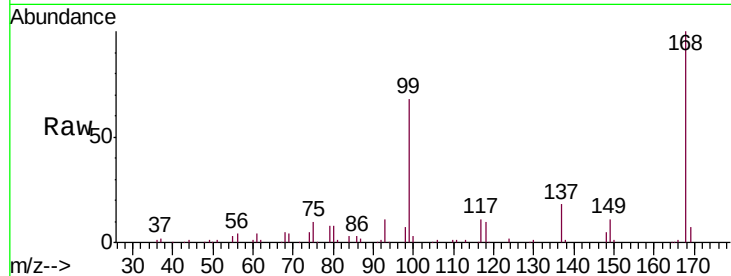
Tgt Ion:117 Resp: 22501

Ion Ratio Lower Upper

117 100

119 3.2 76.1 114.1#

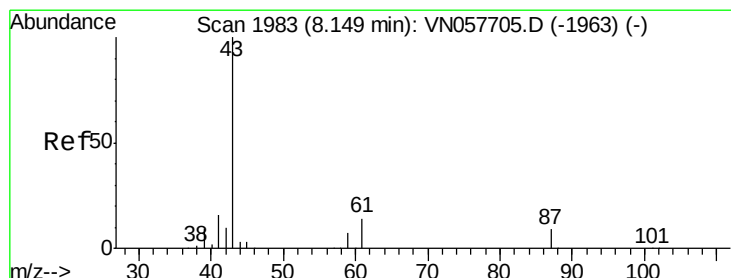
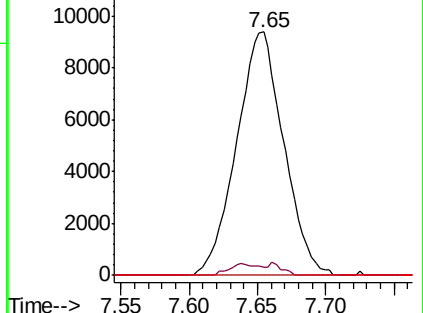
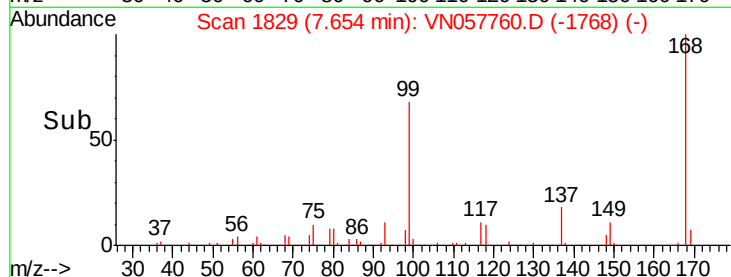
121 0.0 23.4 35.2#



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: 5.210 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057760.D

Acq: 7 Sep 2019 17:41

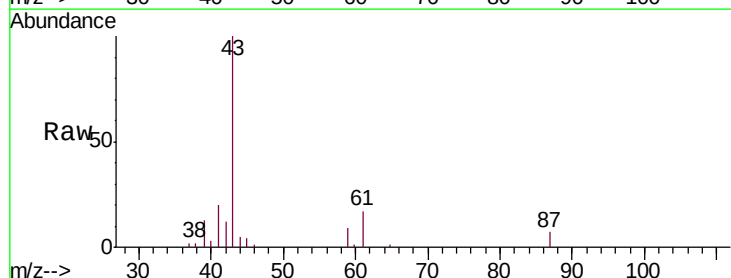
Tgt Ion: 43 Resp: 43075

Ion Ratio Lower Upper

43 100

61 15.0 12.8 19.2

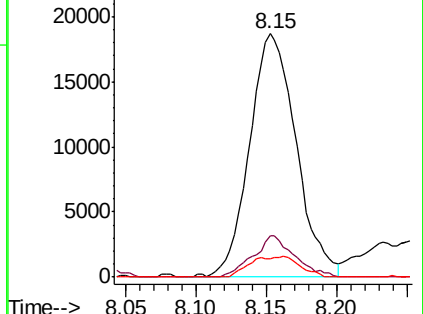
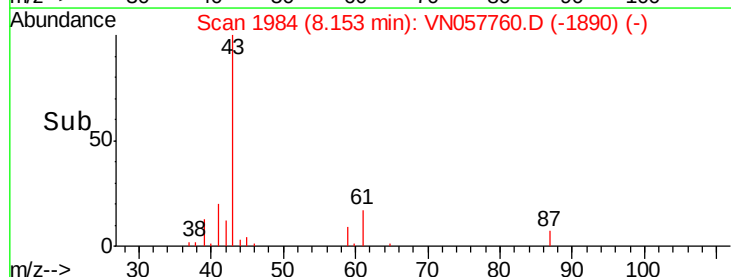
87 4.1 7.8 11.8#

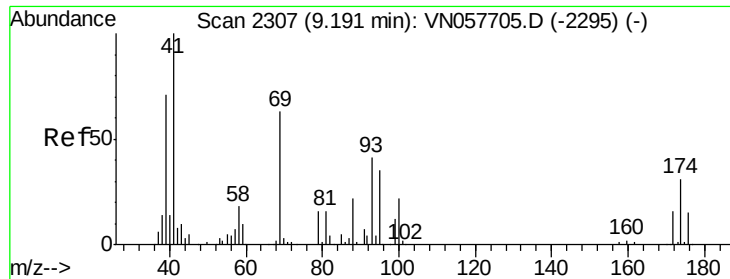


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

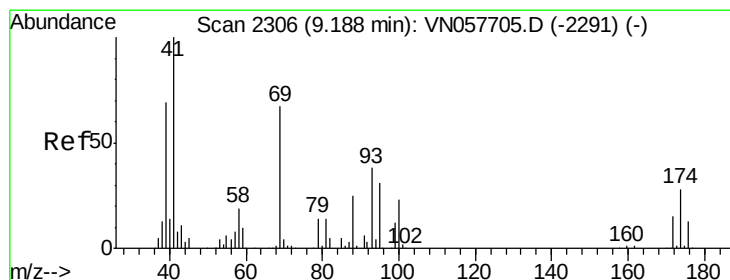
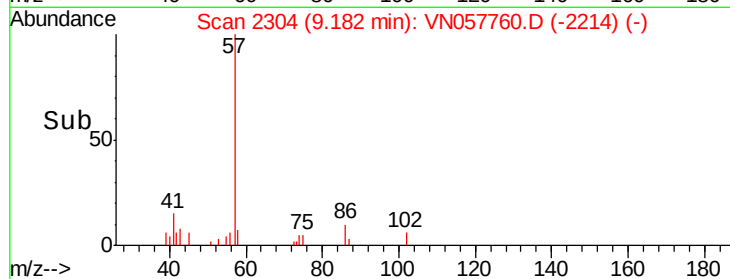
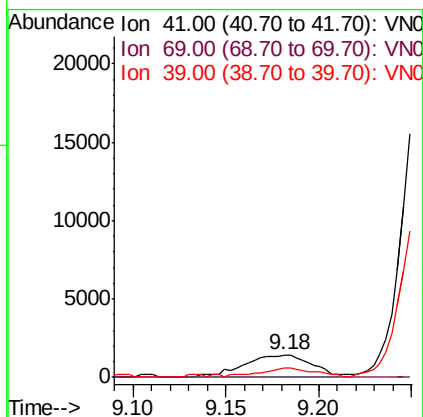
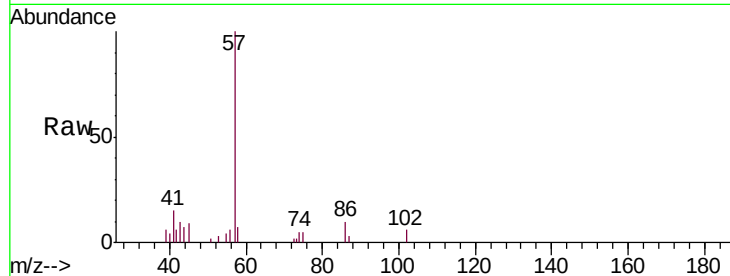




#48
Methyl methacrylate
Concen: 0.849 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VN057760.D
Acq: 7 Sep 2019 17:41

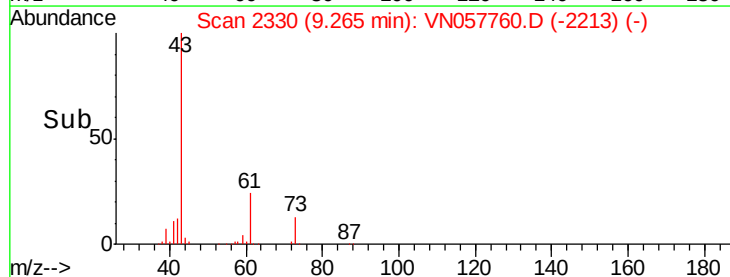
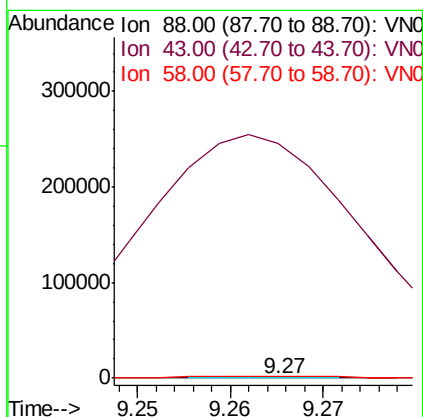
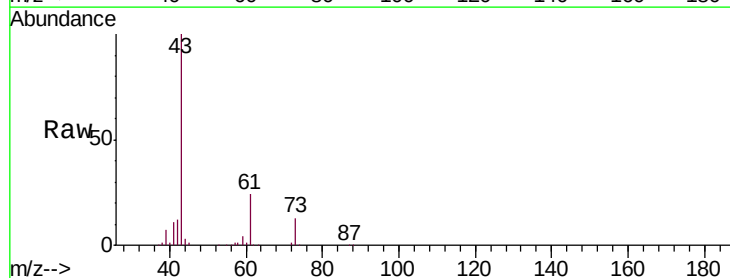
Instrument :
MSVOA_N
ClientSampleId :
T12-D2-(0)

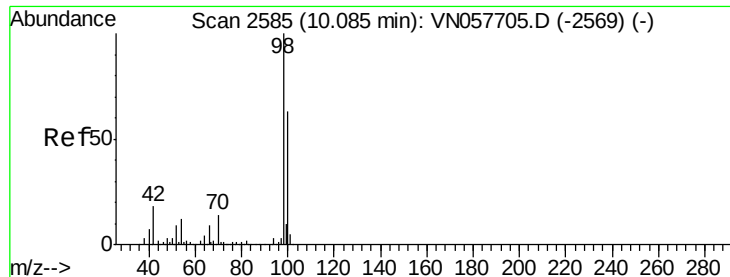
Tgt Ion: 41 Resp: 3608
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 34.6 57.3 85.9#



#49
1,4-Dioxane
Concen: 1.294 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.08 min
Lab File: VN057760.D
Acq: 7 Sep 2019 17:41

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 742804.7 35.4 53.2#
58 4040.6 61.5 92.3#





#50

Toluene-d8

Concen: 51.788 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057760.D

Acq: 7 Sep 2019 17:41

Instrument :

MSVOA_N

ClientSampled :

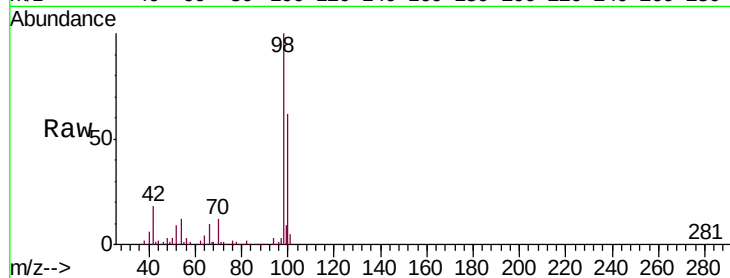
T12-D2-(0)

Tgt Ion: 98 Resp: 569044

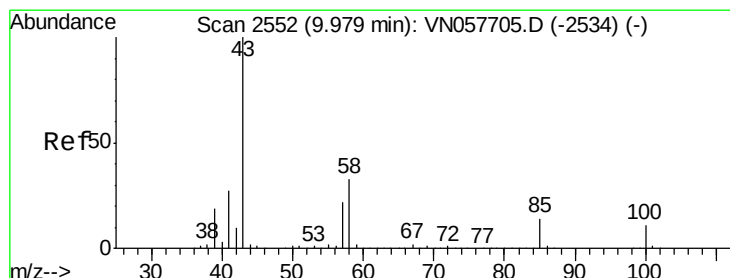
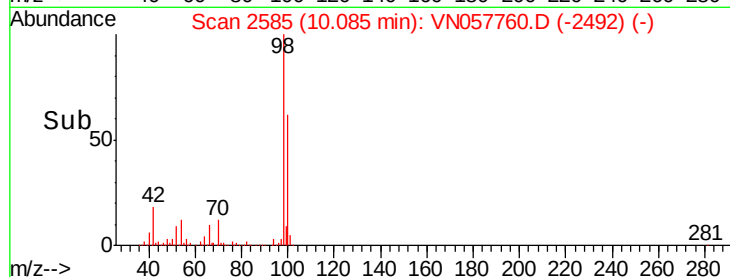
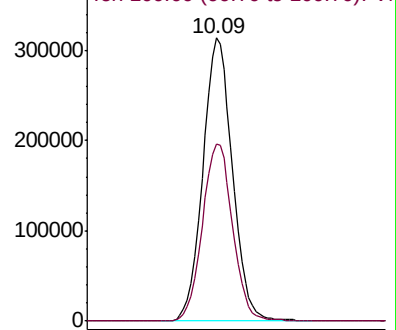
Ion Ratio Lower Upper

98 100

100 64.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN057760.D (-2492) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.666 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057760.D

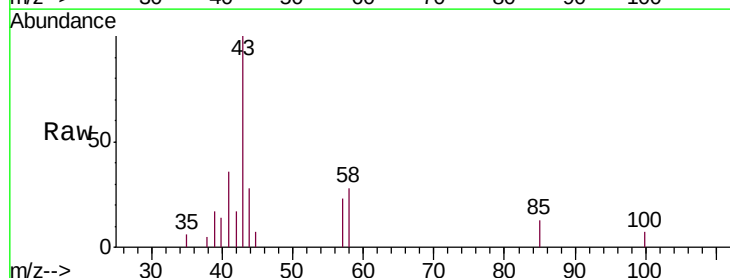
Acq: 7 Sep 2019 17:41

Tgt Ion: 43 Resp: 3057

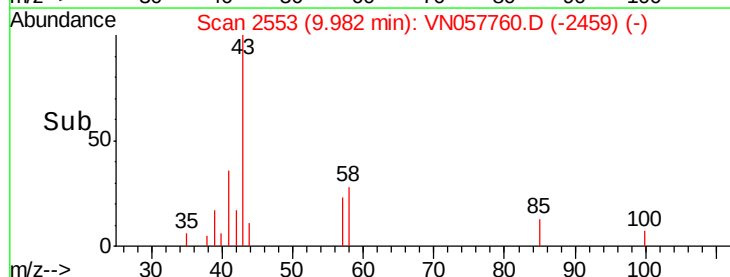
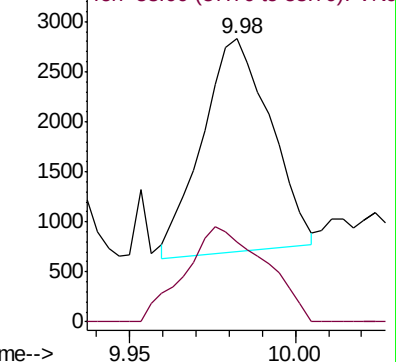
Ion Ratio Lower Upper

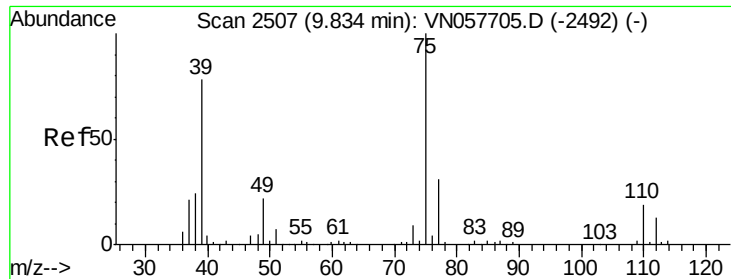
43 100

58 52.4 25.8 38.8#



Abundance Ion 43.00 (42.70 to 43.70): VN057760.D (-2459) (-)





#54

cis-1,3-Dichloropropene

Concen: 3.756 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057760.D

Acq: 7 Sep 2019 17:41

Instrument :

MSVOA_N

ClientSampleId :

T12-D2-(0)

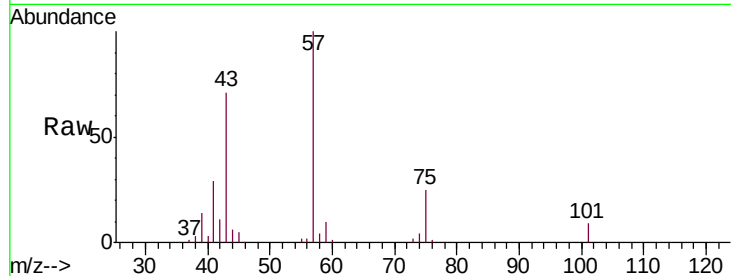
Tgt Ion: 75 Resp: 19046

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

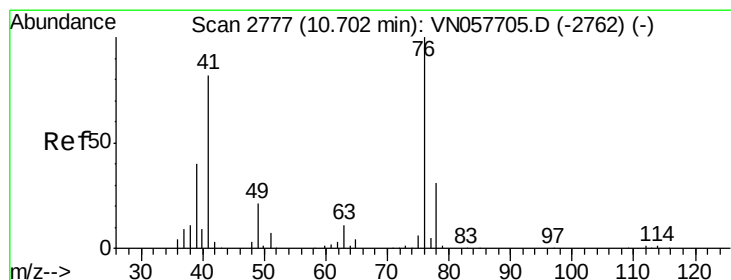
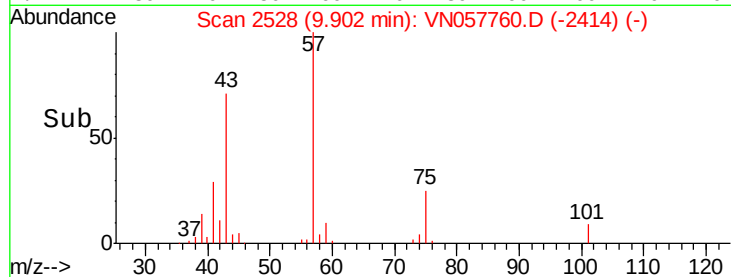
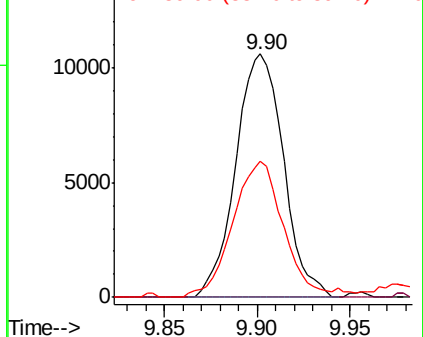
39 54.2 62.4 93.6#



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



#57

1,3-Dichloropropane

Concen: 0.394 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057760.D

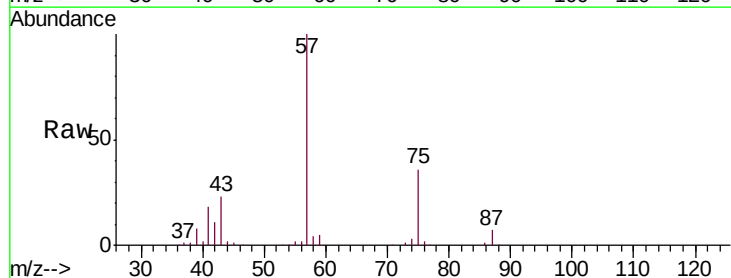
Acq: 7 Sep 2019 17:41

Tgt Ion: 76 Resp: 2117

Ion Ratio Lower Upper

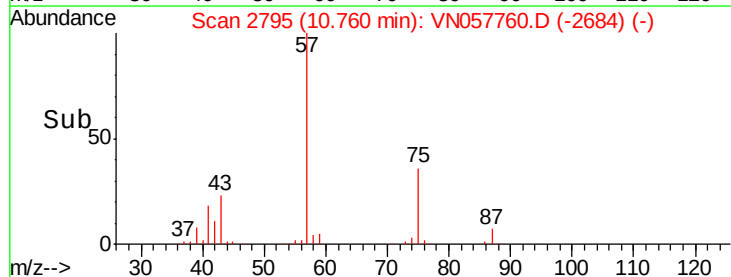
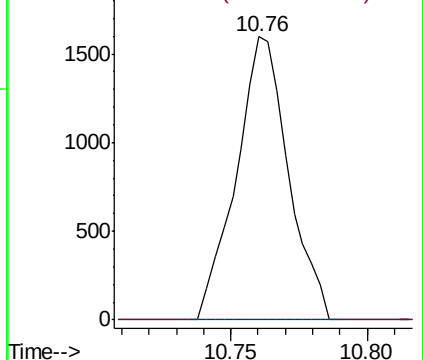
76 100

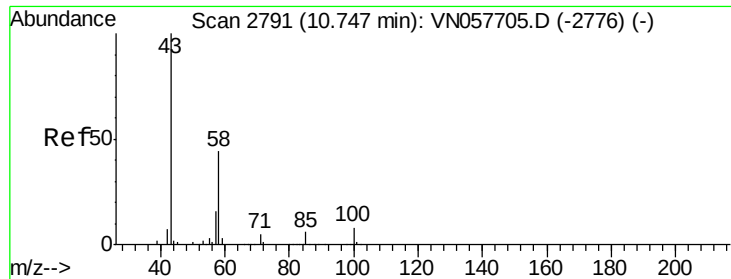
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

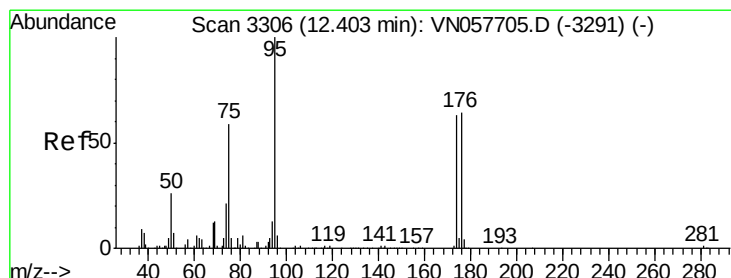
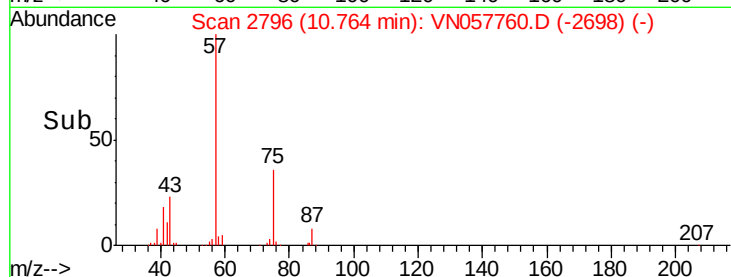
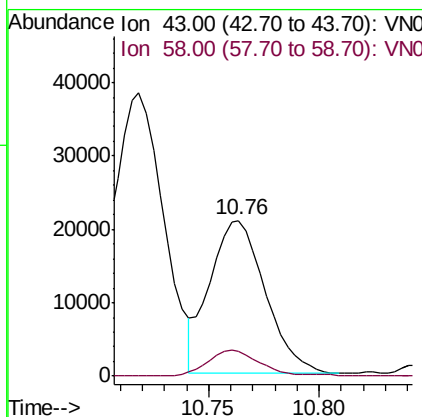
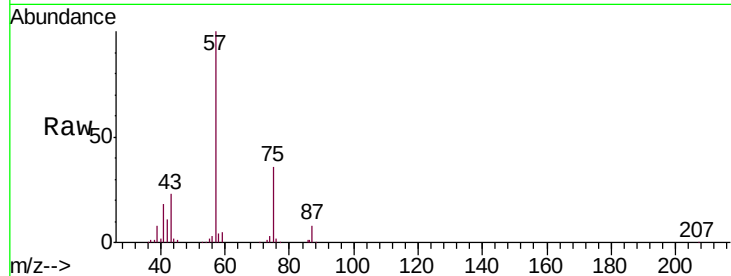




#59
2-Hexanone
Concen: 11.169 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057760.D
Acq: 7 Sep 2019 17:41

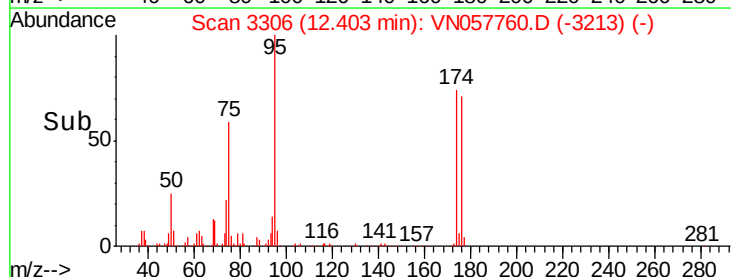
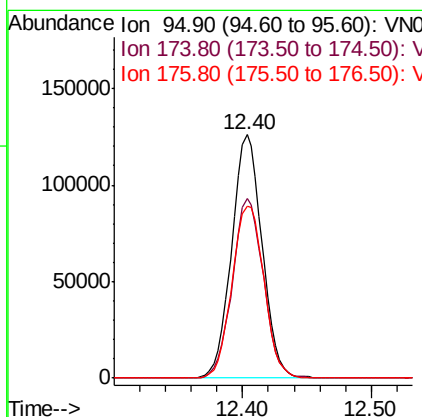
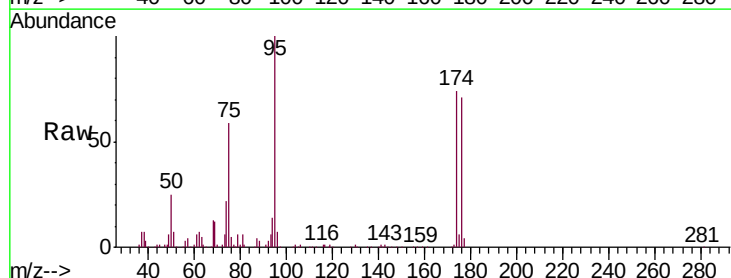
Instrument :
MSVOA_N
ClientSampleId :
T12-D2-(0)

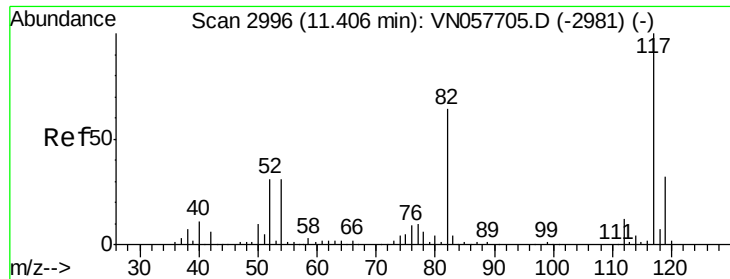
Tgt Ion: 43 Resp: 36161
Ion Ratio Lower Upper
43 100
58 15.8 22.1 66.5#



#62
4-Bromofluorobenzene
Concen: 45.255 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057760.D
Acq: 7 Sep 2019 17:41

Tgt Ion: 95 Resp: 206540
Ion Ratio Lower Upper
95 100
174 75.1 0.0 128.0
176 74.3 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: VN057760.D

Acq: 7 Sep 2019 17:41

Instrument :

MSVOA_N

ClientSampleId :

T12-D2-(0)

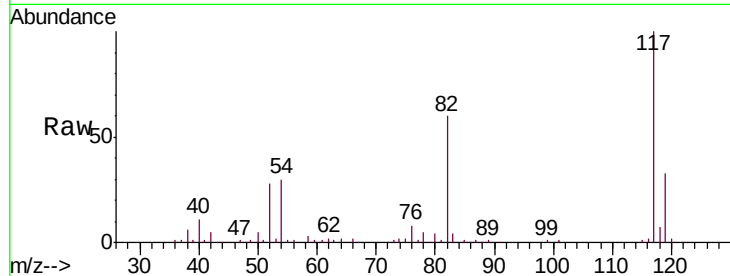
Tgt Ion:117 Resp: 298186

Ion Ratio Lower Upper

117 100

82 59.8 51.4 77.0

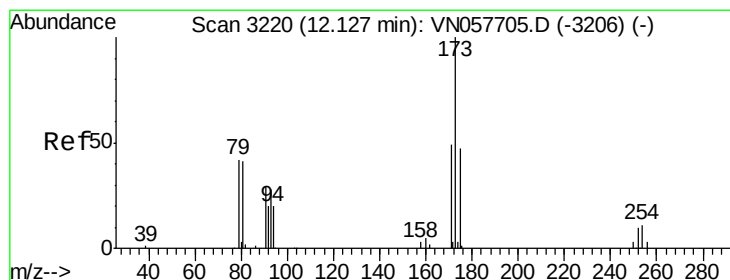
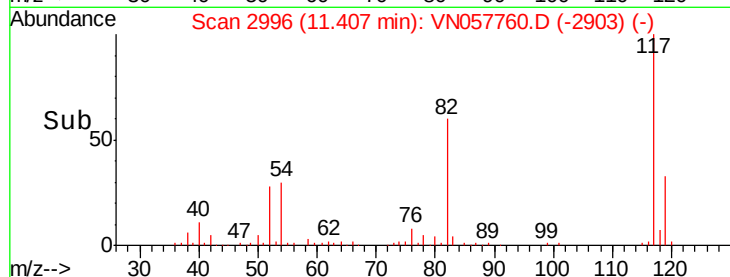
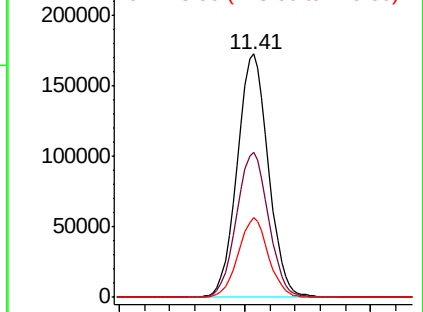
119 32.6 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.610 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN057760.D

Acq: 7 Sep 2019 17:41

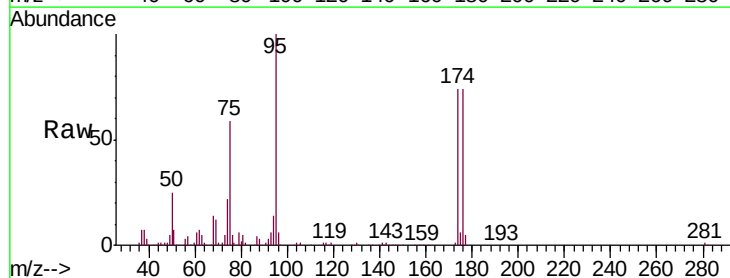
Tgt Ion:173 Resp: 796

Ion Ratio Lower Upper

173 100

175 1223.7 24.6 73.8#

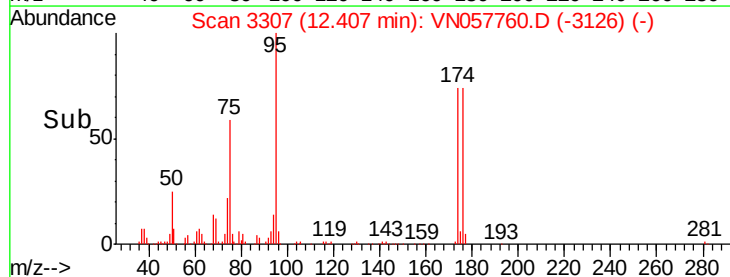
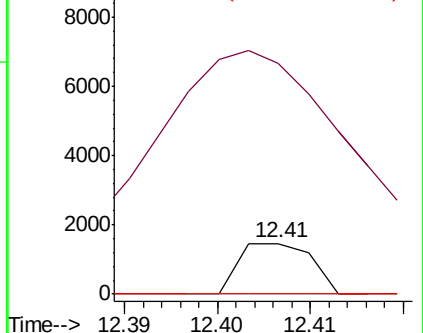
254 0.0 0.0 0.0

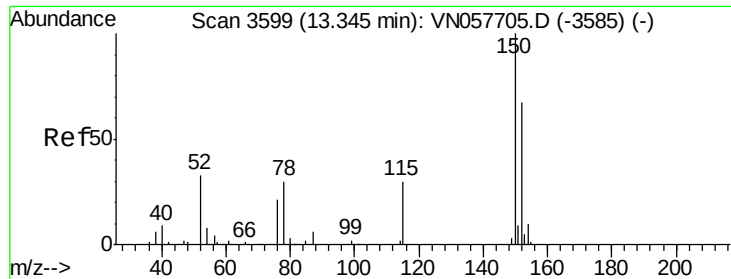


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

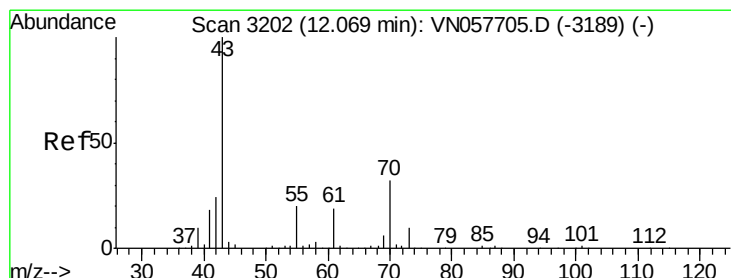
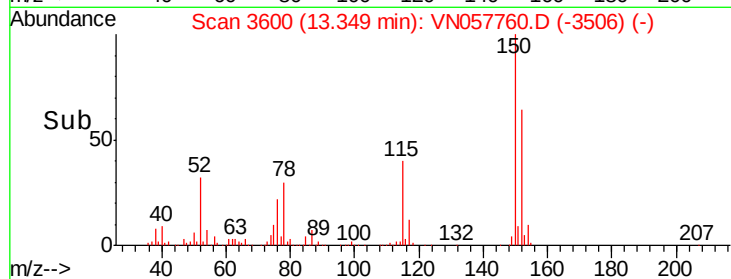
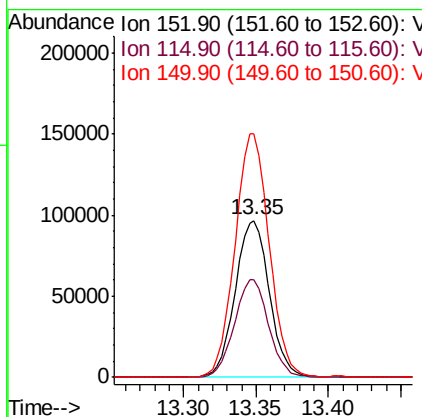
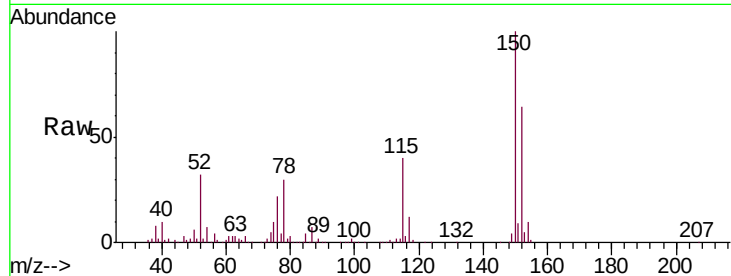




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN057760.D
 Acq: 7 Sep 2019 17:41

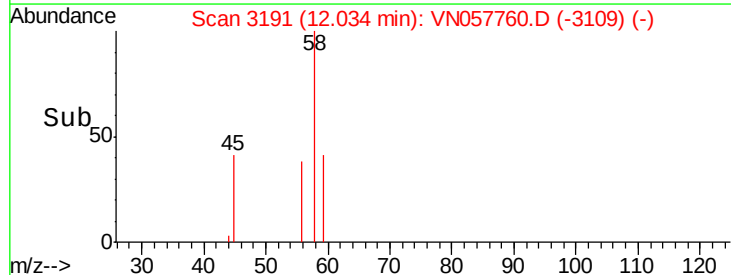
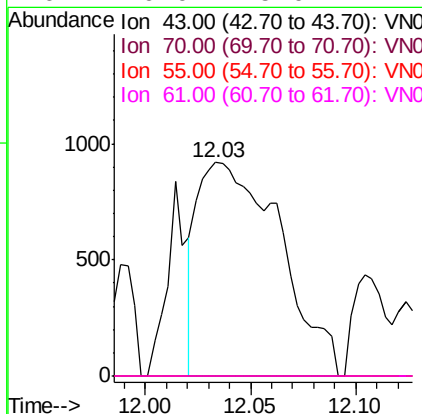
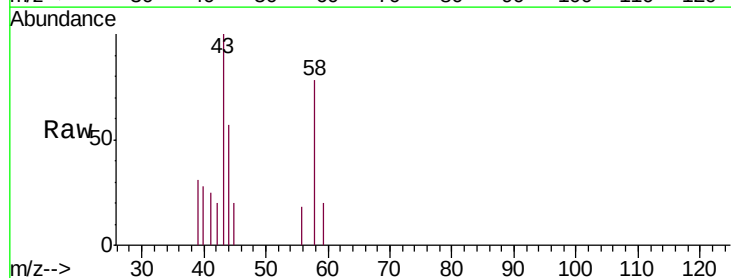
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-D2-(0)

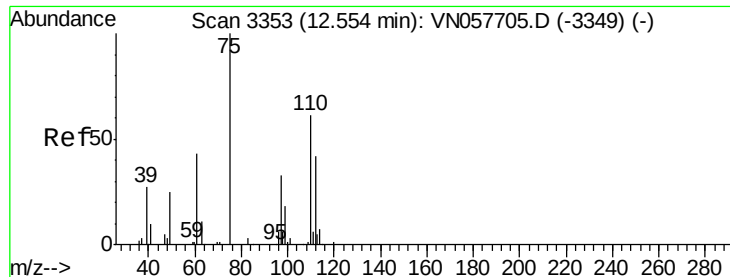
Tgt Ion:152 Resp: 158242
 Ion Ratio Lower Upper
 152 100
 115 62.3 33.8 101.3
 150 155.5 0.0 345.4



#74
 N-ethyl acetate
 Concen: 0.359 ug/l
 RT: 12.03 min Scan# 3191
 Delta R.T. -0.04 min
 Lab File: VN057760.D
 Acq: 7 Sep 2019 17:41

Tgt Ion: 43 Resp: 2506
 Ion Ratio Lower Upper
 43 100
 70 0.0 26.1 39.1#
 55 0.0 16.3 24.5#
 61 0.0 15.0 22.4#





#76

1,2,3-Trichloropropane

Concen: 34.620 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057760.D

Acq: 7 Sep 2019 17:41

Instrument :

MSVOA_N

ClientSampleId :

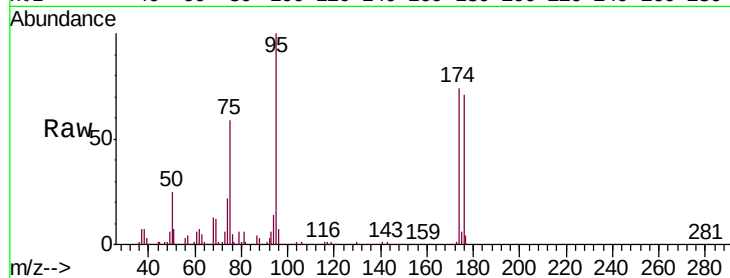
T12-D2-(0)

Tgt Ion: 75 Resp: 125803

Ion Ratio Lower Upper

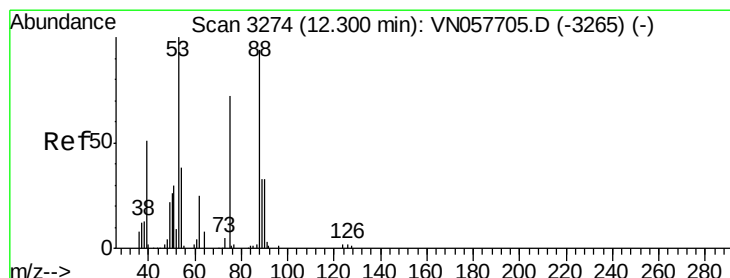
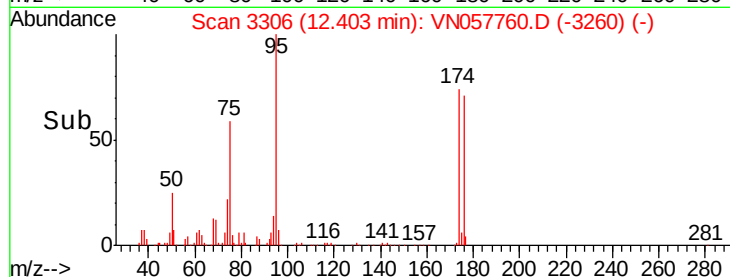
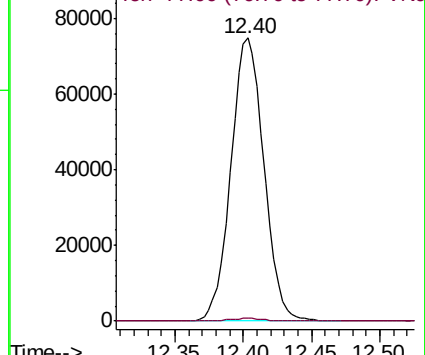
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 107.668 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057760.D

Acq: 7 Sep 2019 17:41

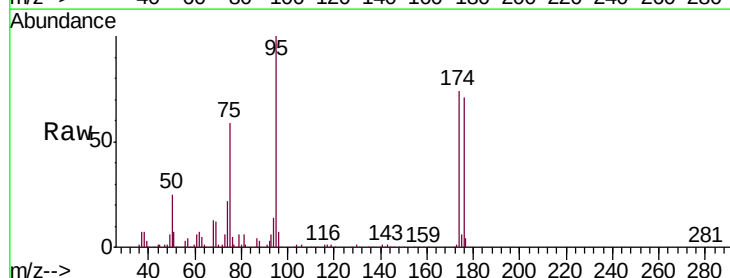
Tgt Ion: 75 Resp: 125803

Ion Ratio Lower Upper

75 100

53 0.0 107.0 160.6#

89 0.1 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

