

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041519\
 Data File : VN055065.D
 Acq On : 16 Apr 2019 1:18
 Operator : JC/SP
 Sample : K2397-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-D

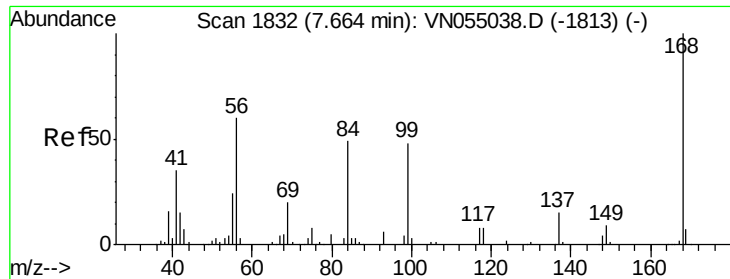
Quant Time: Apr 16 05:56:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	523564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	838261	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	707955	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	228040	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	327353	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
35) Dibromofluoromethane	7.59	113	266383	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
50) Toluene-d8	10.09	98	1000308	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
62) 4-Bromofluorobenzene	12.40	95	295366	45.31	ug/l	0.00
Spiked Amount			Recovery	=	90.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.83	59	135	0.354	ug/l #	72
13) Acrolein	3.61	56	353	0.749	ug/l #	60
16) Acetone	3.82	43	11430	6.051	ug/l	100
18) Methyl Acetate	4.33	43	5250	0.532	ug/l #	79
20) Methylene Chloride	4.55	84	37128	5.591	ug/l	98
25) 2-Butanone	6.86	43	7001	2.483	ug/l	97
30) Chloroform	7.37	83	9834	0.909	ug/l	97
31) Cyclohexane	7.66	56	11387	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	39215	4.963	ug/l #	50
38) Carbon Tetrachloride	7.66	117	47935	6.376	ug/l #	16
43) Isopropyl Acetate	8.17	43	15107	1.524	ug/l	98
45) 1,2-Dichloropropane	9.27	63	1623	0.244	ug/l #	44
47) Bromodichloromethane	9.40	83	2917	0.374	ug/l #	82
48) Methyl methacrylate	9.18	41	9153	1.863	ug/l #	17
51) 4-Methyl-2-Pentanone	10.02	43	8369	1.461	ug/l #	39
54) cis-1,3-Dichloropropene	9.91	75	52163	6.170	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	9199	1.028	ug/l #	43
59) 2-Hexanone	10.76	43	158045	43.938	ug/l #	54
71) Bromoform	12.39	173	610	0.203	ug/l #	29
74) N-amyl acetate	11.88	43	12726	2.234	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	149652	36.494	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	149652	145.935	ug/l #	2
84) 1,2,4-Trimethylbenzene	13.04	105	3661	0.237	ug/l	98
95) Naphthalene	15.14	128	2574	3.375	ug/l #	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampleId :

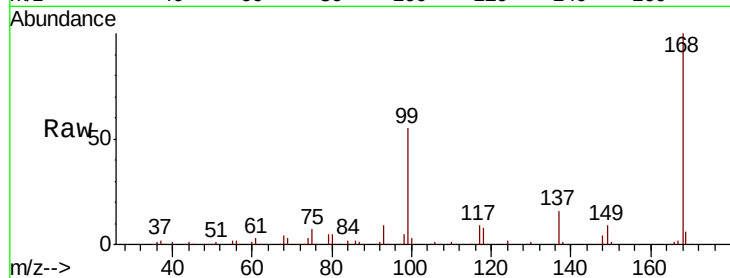
TP-3-D

Tot Ion:168 Resp: 523564

Ion Ratio Lower Upper

168 100

99 55.1 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055038.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055038.D (-1813) (-)

7.66

250000

200000

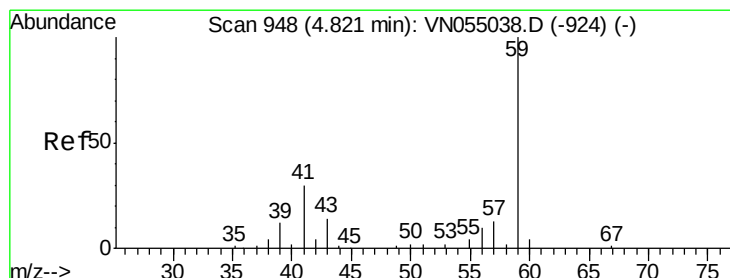
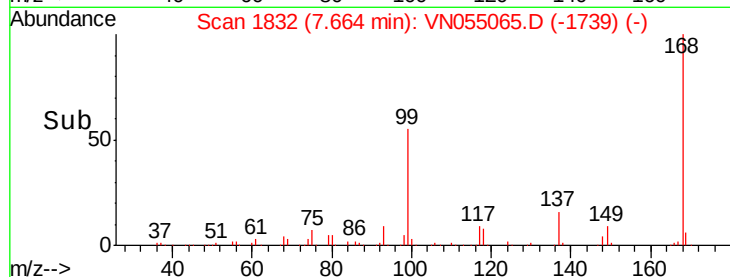
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.354 ug/l

RT: 4.83 min Scan# 950

Delta R.T. 0.01 min

Lab File: VN055065.D

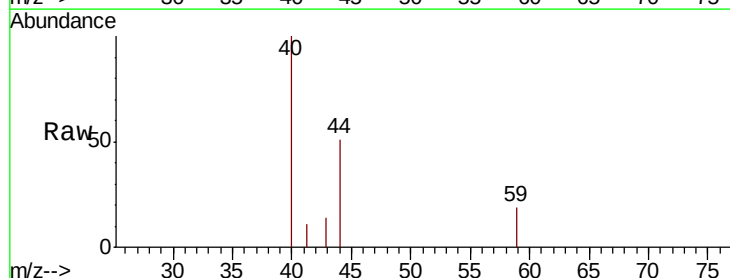
Acq: 16 Apr 2019 1:18

Tgt Ion: 59 Resp: 135

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN055038.D (-924) (-)

Ion 57.00 (56.70 to 57.70): VN055038.D (-924) (-)

4.83

300

250

200

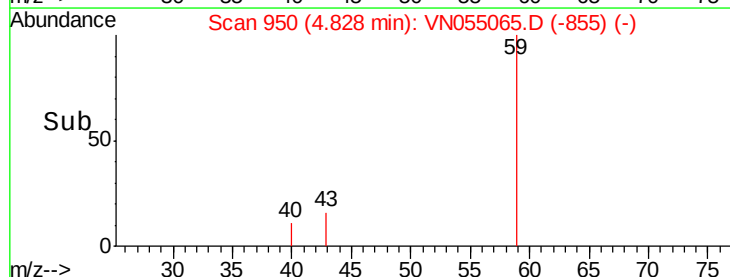
150

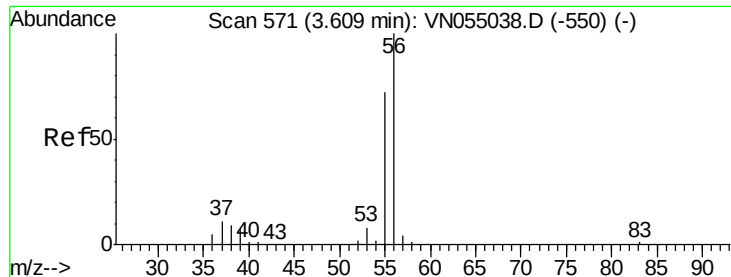
100

50

0

Time-->





#13

Acrolein

Concen: 0.749 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampleID :

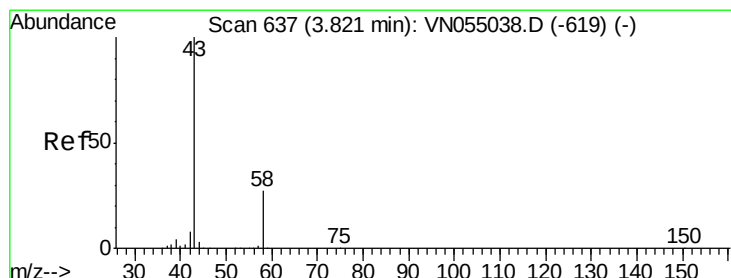
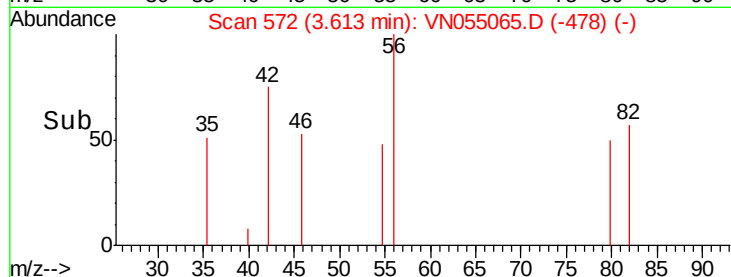
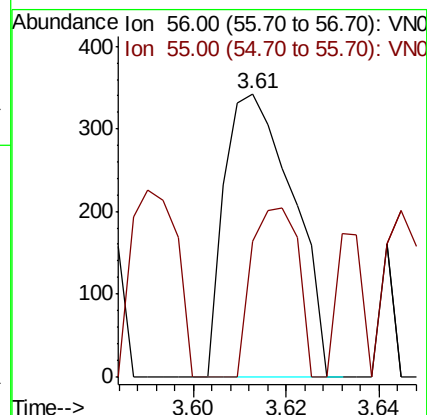
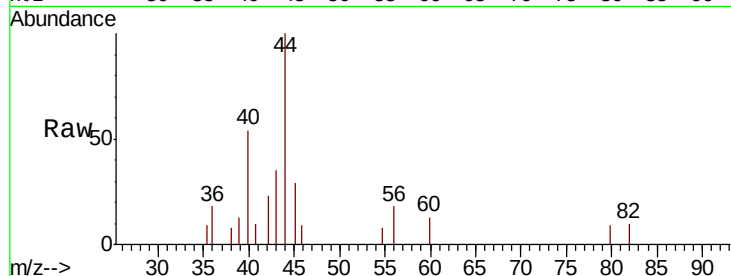
TP-3-D

Tot Ion: 56 Resp: 353

Ion Ratio Lower Upper

56 100

55 40.2 59.5 89.3#



#16

Acetone

Concen: 6.051 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055065.D

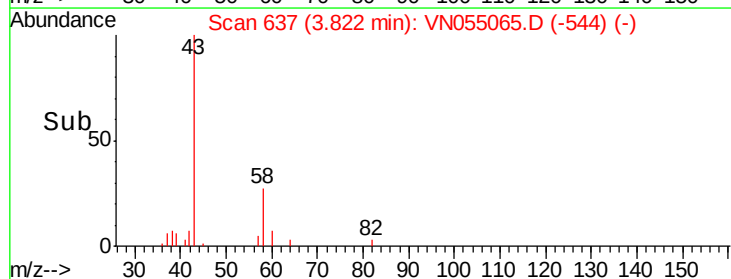
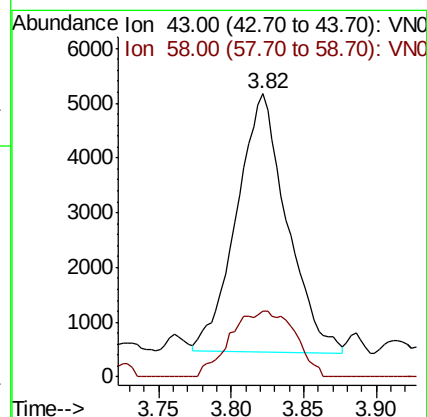
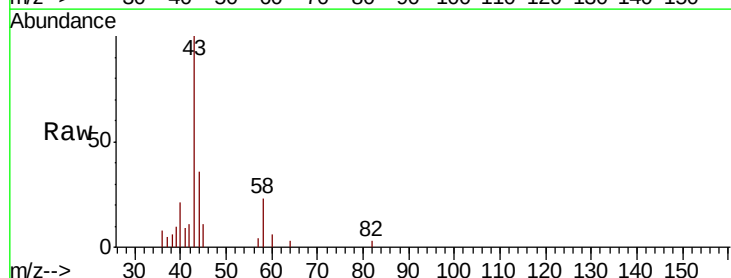
Acq: 16 Apr 2019 1:18

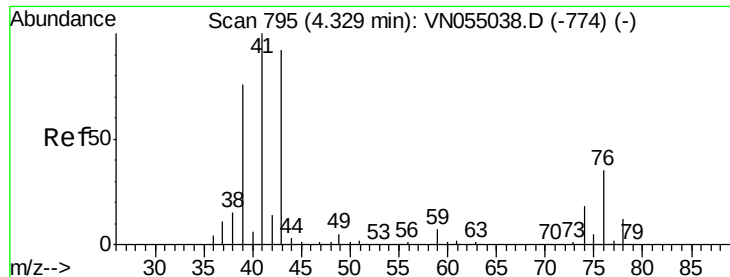
Tgt Ion: 43 Resp: 11430

Ion Ratio Lower Upper

43 100

58 26.2 20.9 31.3





#18

Methyl Acetate

Concen: 0.532 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampleId :

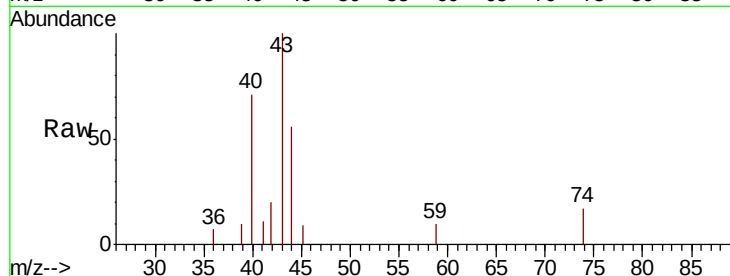
TP-3-D

Tot Ion: 43 Resp: 5250

Ion Ratio Lower Upper

43 100

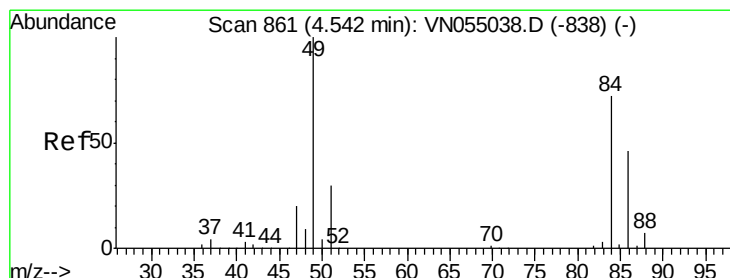
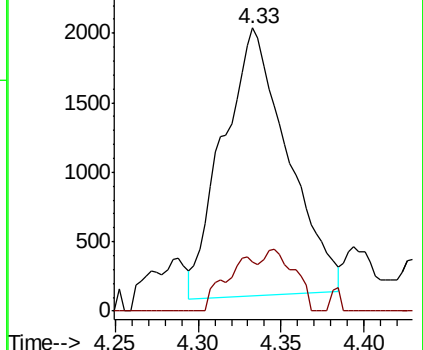
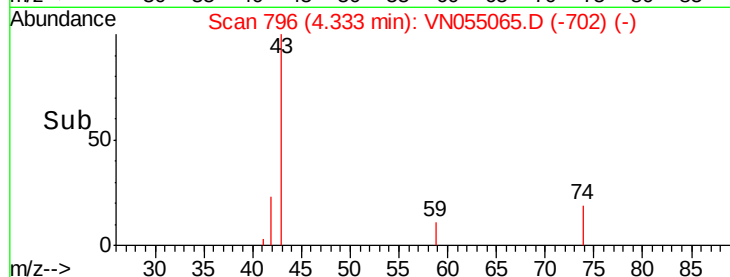
74 10.4 16.1 24.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055038.D (-774) (-)

Ion 74.00 (73.70 to 74.70): VN055038.D (-774) (-)

Time-->



#20

Methylene Chloride

Concen: 5.591 ug/l

RT: 4.55 min Scan# 862

Delta R.T. 0.00 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Tgt Ion: 84 Resp: 37128

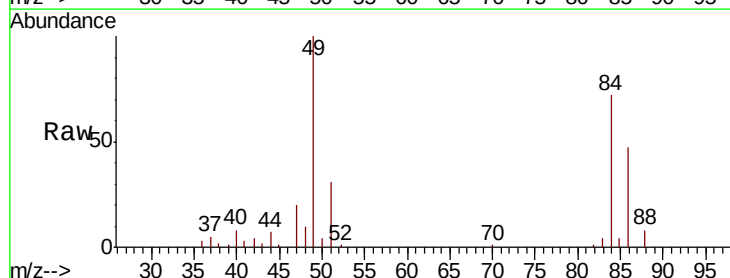
Ion Ratio Lower Upper

84 100

49 137.3 109.4 164.2

51 42.7 32.2 48.4

86 65.6 49.3 73.9



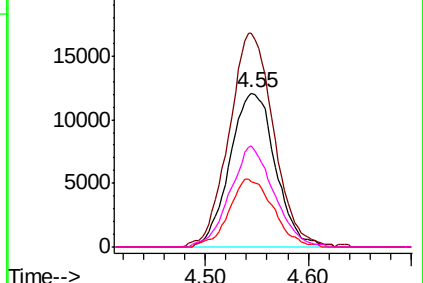
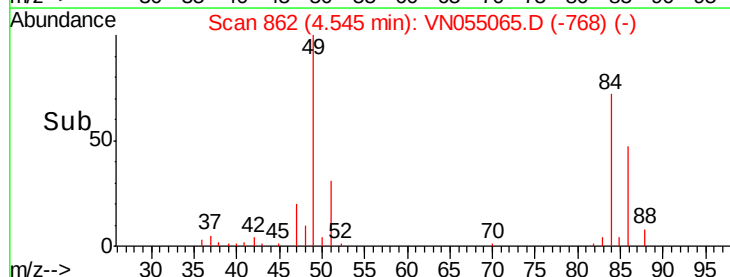
Abundance Ion 83.90 (83.60 to 84.60): VN055038.D (-838) (-)

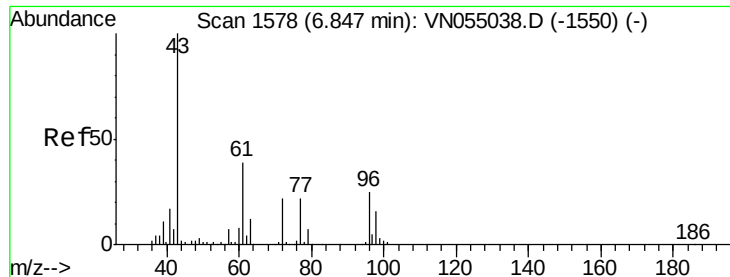
Ion 48.90 (48.60 to 49.60): VN055038.D (-838) (-)

Ion 50.90 (50.60 to 51.60): VN055038.D (-838) (-)

Ion 85.90 (85.60 to 86.60): VN055038.D (-838) (-)

Time-->





#25

2-Butanone

Concen: 2.483 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.01 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampled :

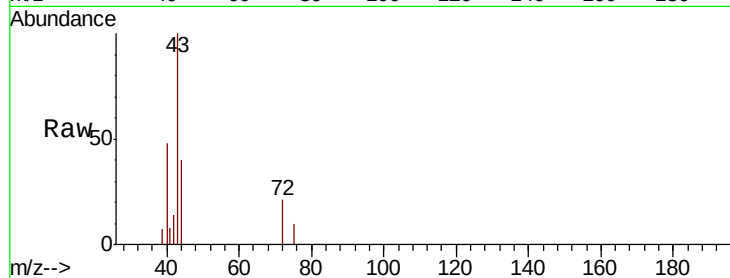
TP-3-D

Tot Ion: 43 Resp: 7001

Ion Ratio Lower Upper

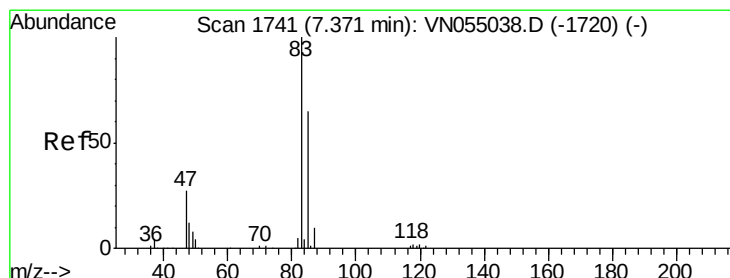
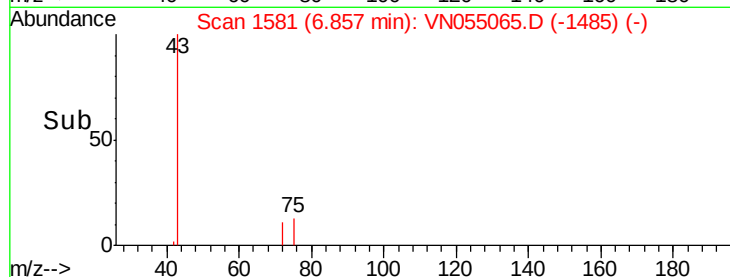
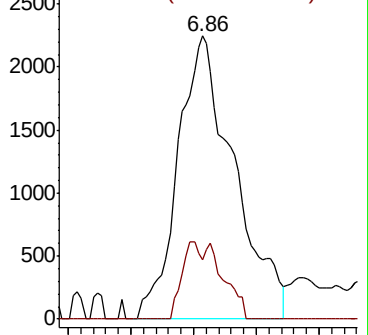
43 100

72 21.2 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VN055038.D (-1550) (-)

Ion 72.00 (71.70 to 72.70): VN055038.D (-1550) (-)



#30

Chloroform

Concen: 0.909 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN055065.D

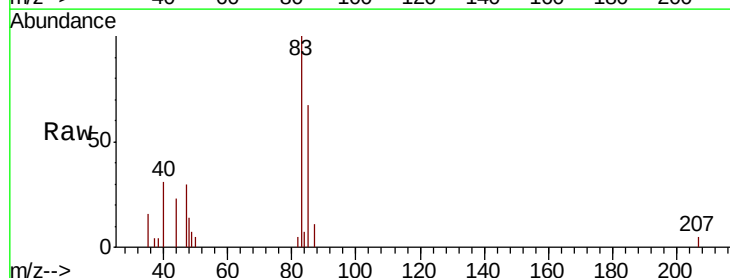
Acq: 16 Apr 2019 1:18

Tgt Ion: 83 Resp: 9834

Ion Ratio Lower Upper

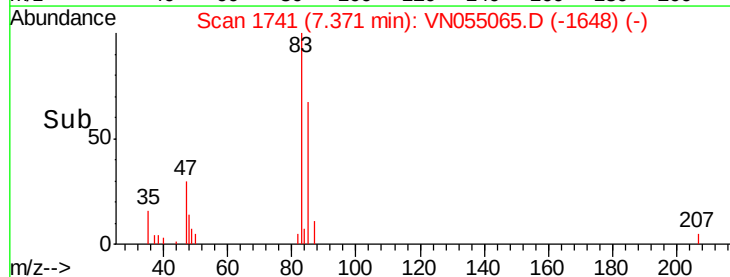
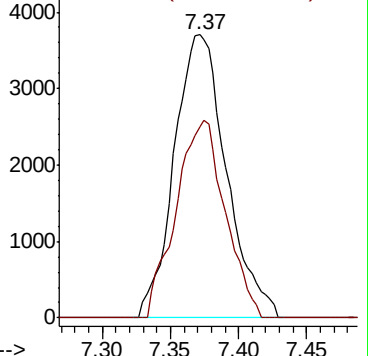
83 100

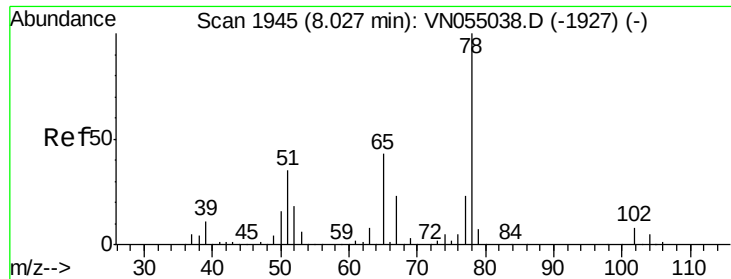
85 67.4 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VN055038.D (-1720) (-)

Ion 84.90 (84.60 to 85.60): VN055038.D (-1720) (-)

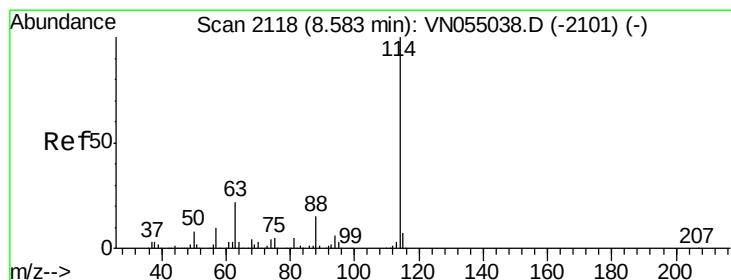
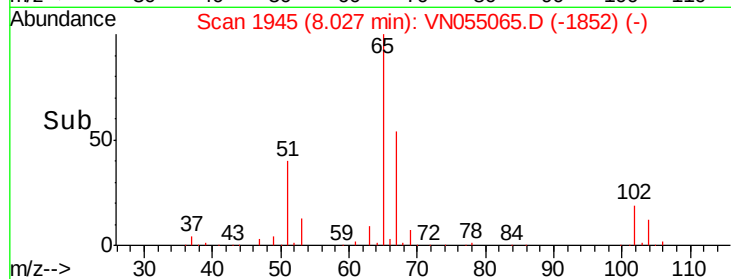
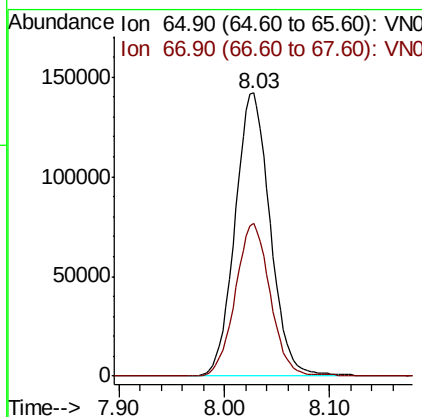
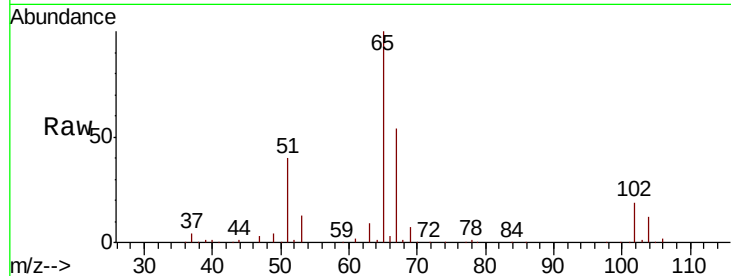




#33
 1,2-Dichloroethane-d4
 Concen: 47.037 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055065.D
 Acq: 16 Apr 2019 1:18

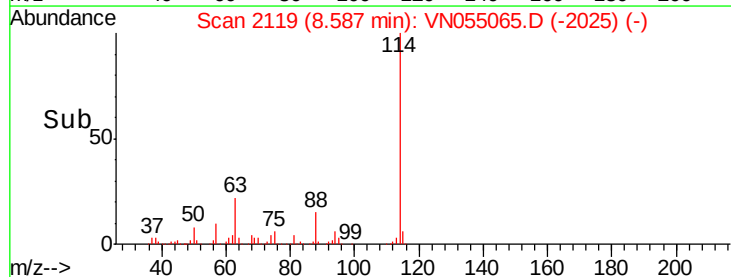
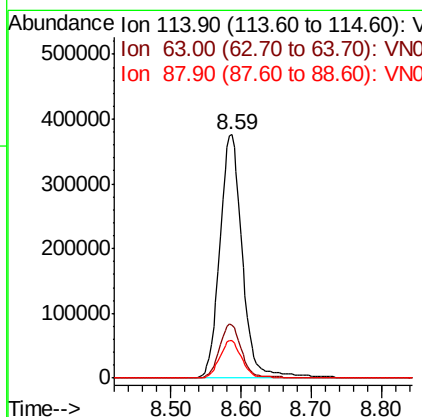
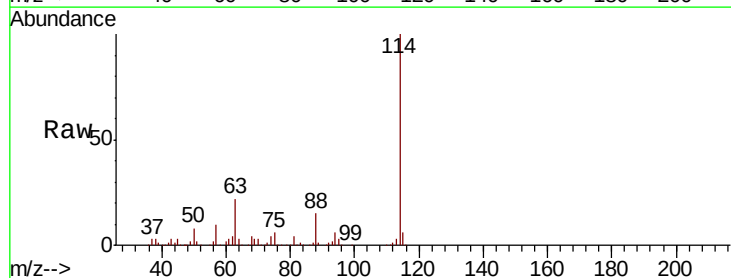
Instrument :
 MSVOA_N
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 TP-3-D

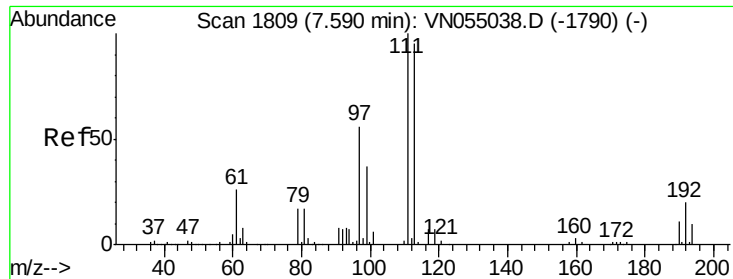
Tot Ion: 65 Resp: 327353
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055065.D
 Acq: 16 Apr 2019 1:18

Tgt Ion: 114 Resp: 838261
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 45.2
 88 15.4 0.0 31.8

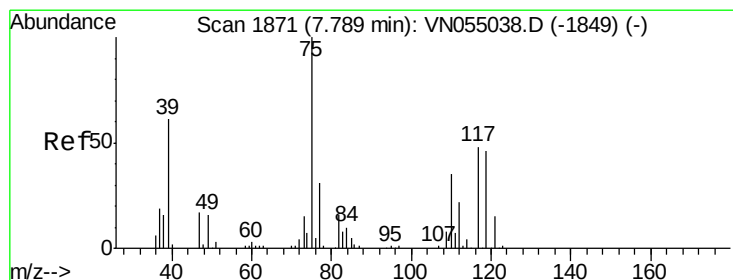
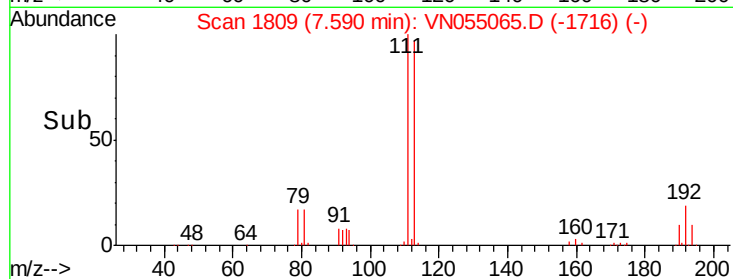
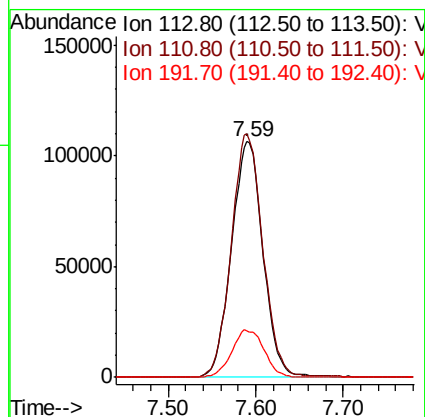
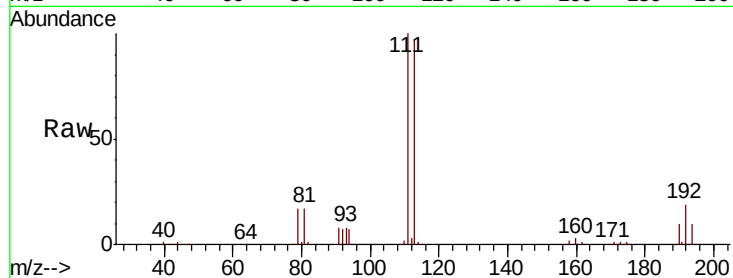




#35
 Dibromofluoromethane
 Concen: 47.550 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055065.D
 Acq: 16 Apr 2019 1:18

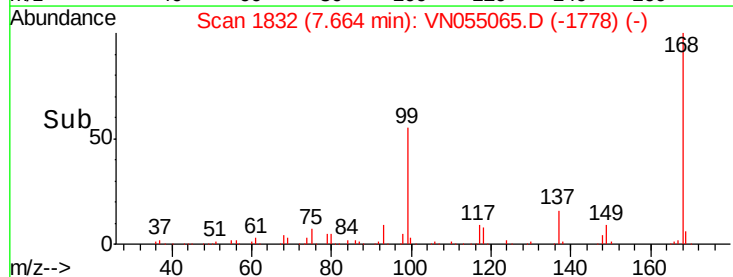
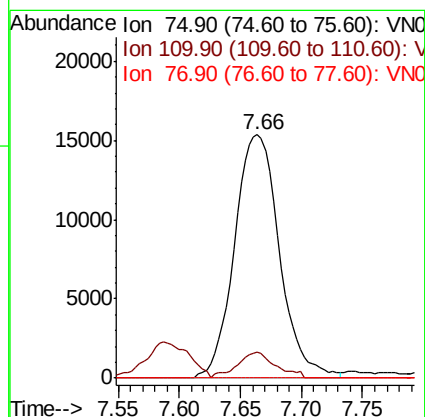
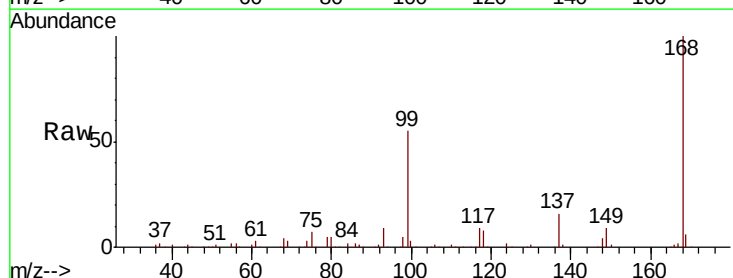
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-D

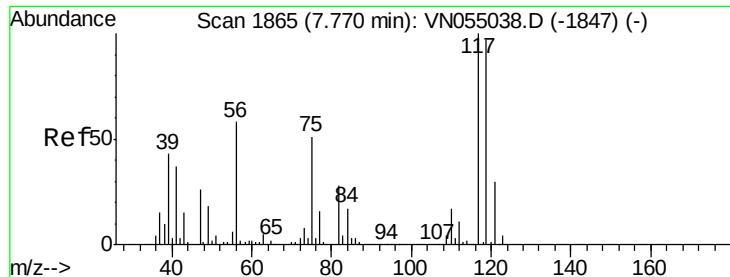
Tot Ion:113 Resp: 266383
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.1 123.1
 192 20.7 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 4.963 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055065.D
 Acq: 16 Apr 2019 1:18

Tgt Ion: 75 Resp: 39215
 Ion Ratio Lower Upper
 75 100
 110 9.1 17.5 52.5#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.376 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampled :

TP-3-D

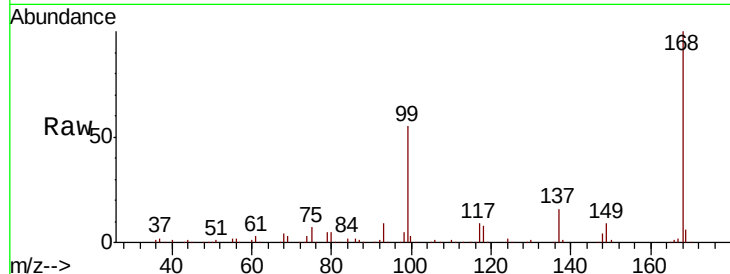
Tot Ion:117 Resp: 47935

Ion Ratio Lower Upper

117 100

119 4.4 76.3 114.5#

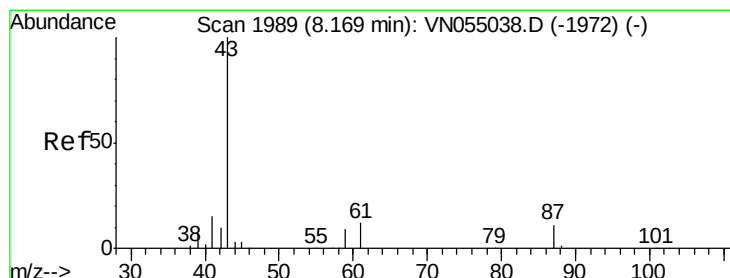
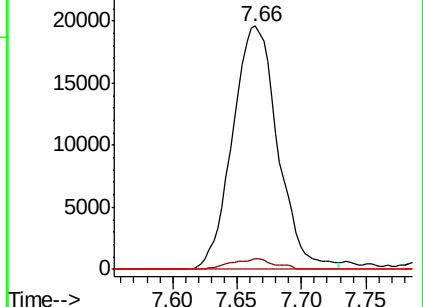
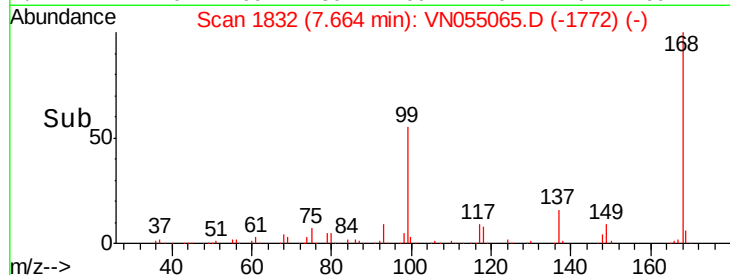
121 0.0 23.9 35.9#



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: 1.524 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

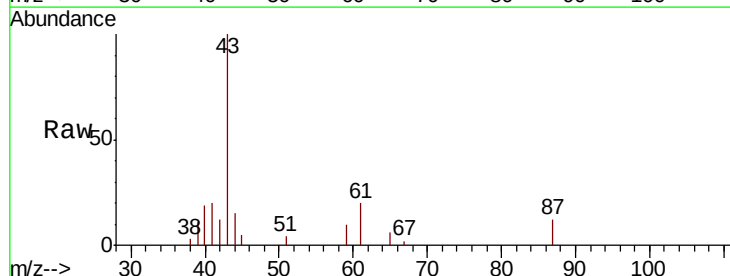
Tgt Ion: 43 Resp: 15107

Ion Ratio Lower Upper

43 100

61 18.5 14.3 21.5

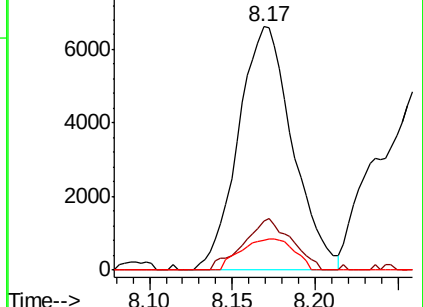
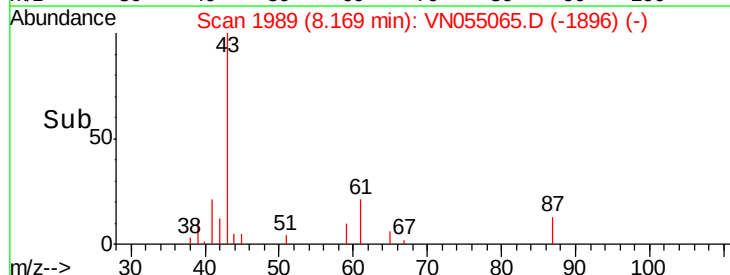
87 12.4 8.6 13.0

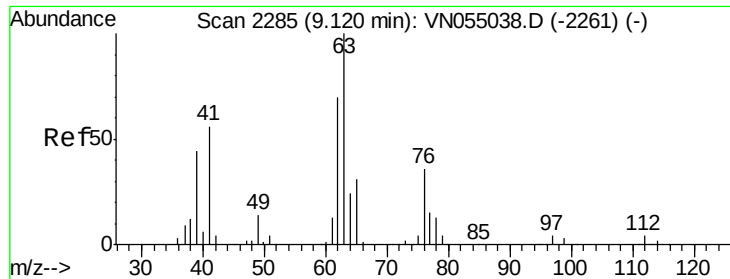


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

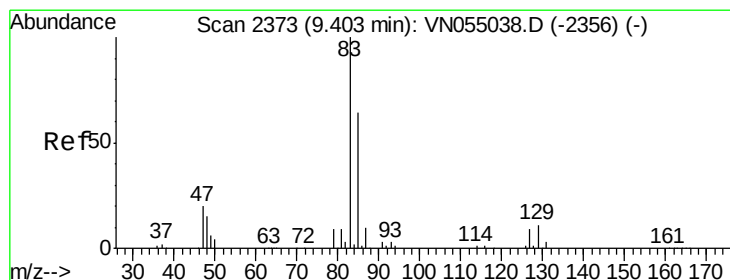
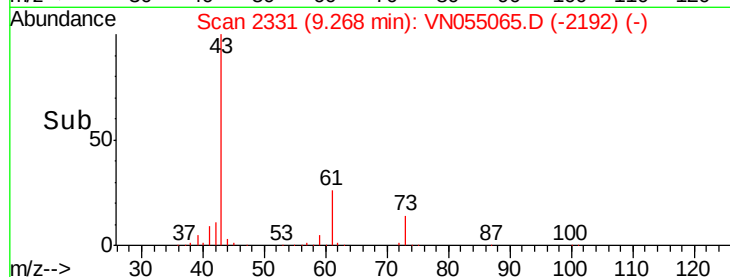
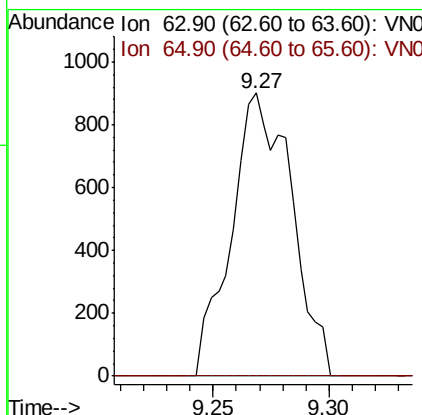
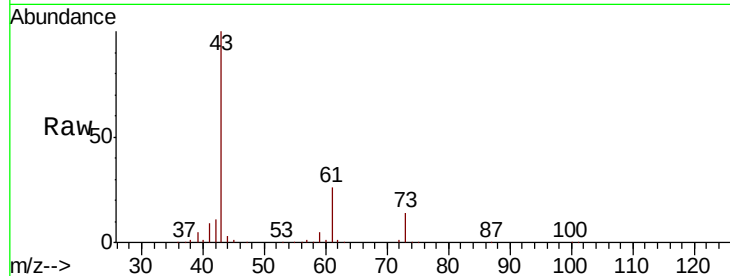




#45
 1,2-Dichloropropane
 Concen: 0.244 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN055065.D
 Acq: 16 Apr 2019 1:18

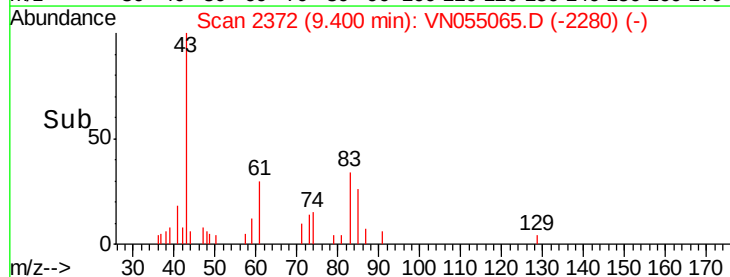
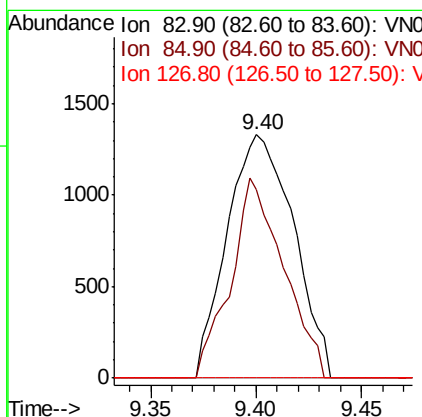
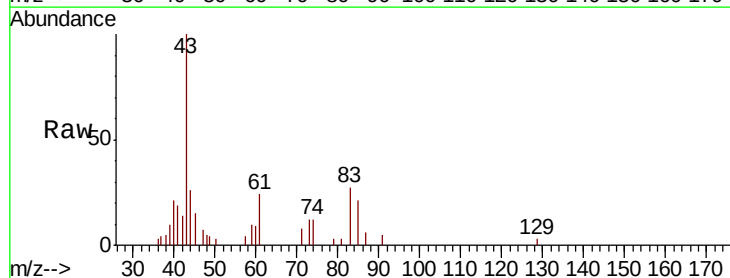
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3-D

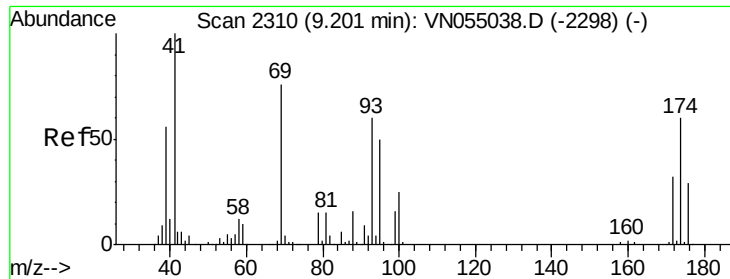
Tot Ion: 63 Resp: 1623
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#47
 Bromodichloromethane
 Concen: 0.374 ug/l
 RT: 9.40 min Scan# 2372
 Delta R.T. -0.00 min
 Lab File: VN055065.D
 Acq: 16 Apr 2019 1:18

Tgt Ion: 83 Resp: 2917
 Ion Ratio Lower Upper
 83 100
 85 77.2 51.2 76.8#
 127 0.0 6.8 10.2#

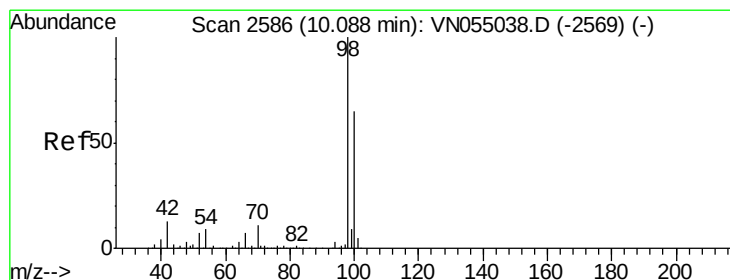
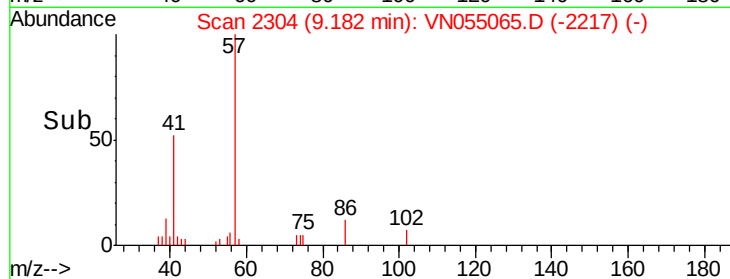
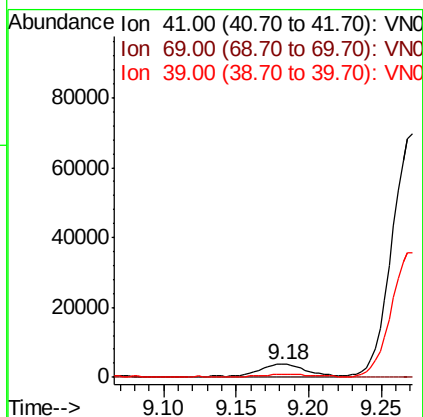
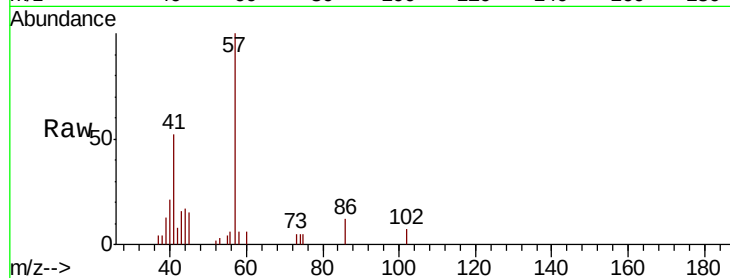




#48
Methvl methacrylate
Concen: 1.863 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN055065.D
Acq: 16 Apr 2019 1:18

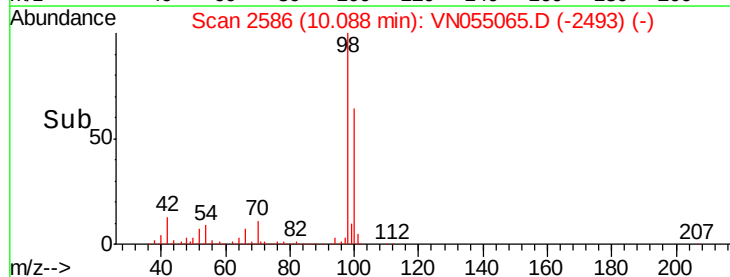
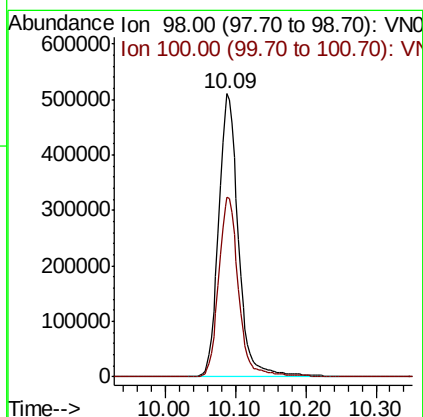
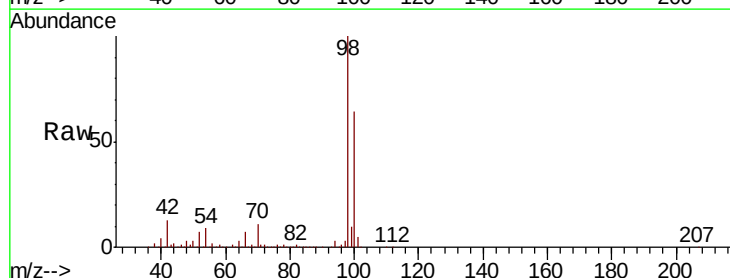
Instrument :
MSVOA_N
ClientSampleId :
TP-3-D

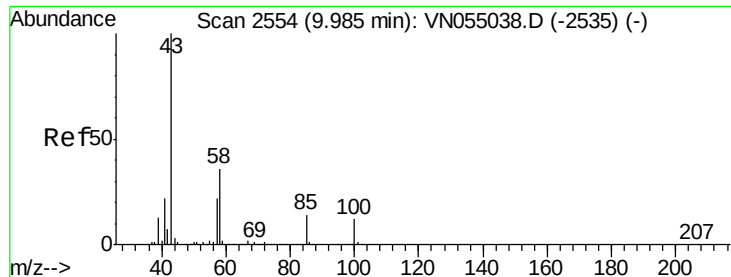
Tot Ion: 41 Resp: 9153
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 0.0 43.9 65.9#



#50
Toluene-d8
Concen: 49.889 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN055065.D
Acq: 16 Apr 2019 1:18

Tgt Ion: 98 Resp: 1000308
Ion Ratio Lower Upper
98 100
100 63.2 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 1.461 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampled :

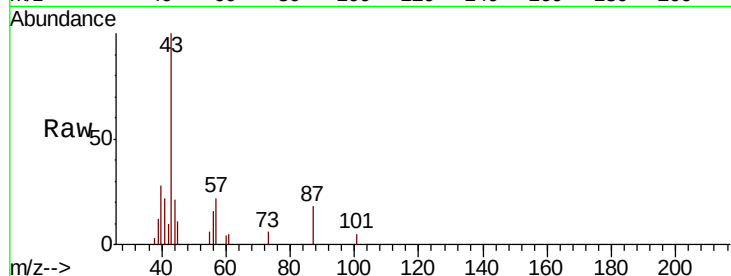
TP-3-D

Tot Ion: 43 Resp: 8369

Ion Ratio Lower Upper

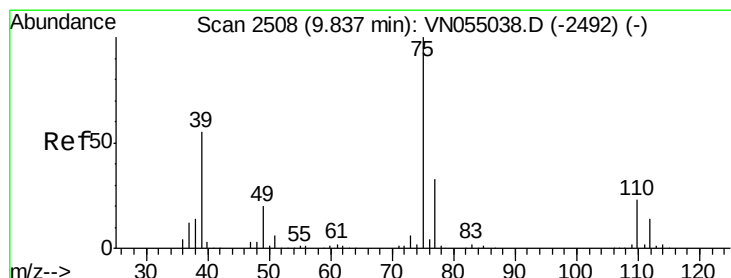
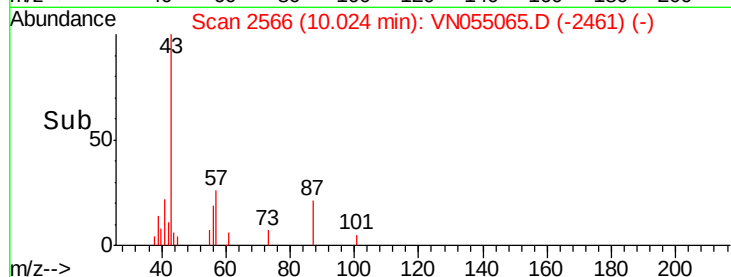
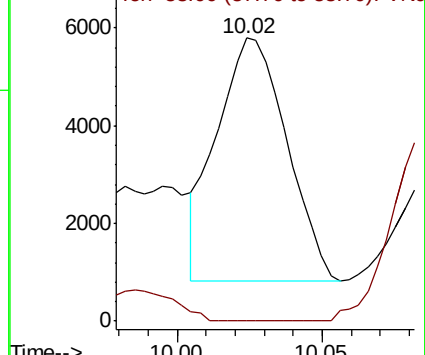
43 100

58 0.0 29.0 43.4#



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: 6.170 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

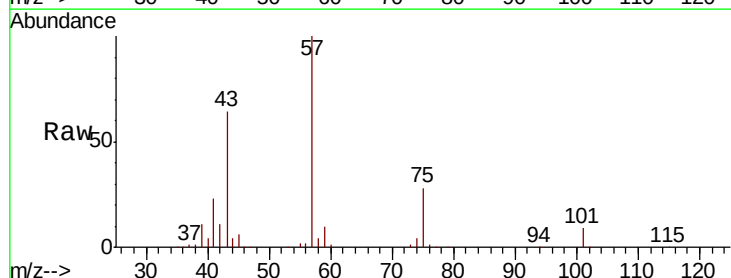
Tgt Ion: 75 Resp: 52163

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

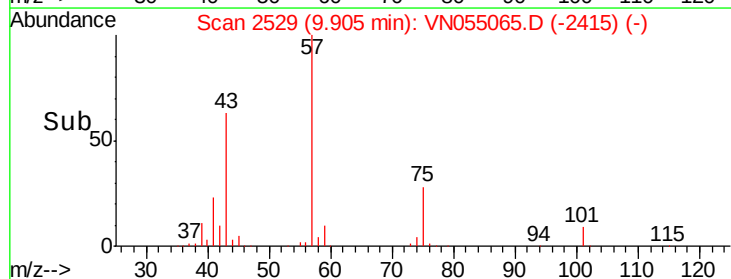
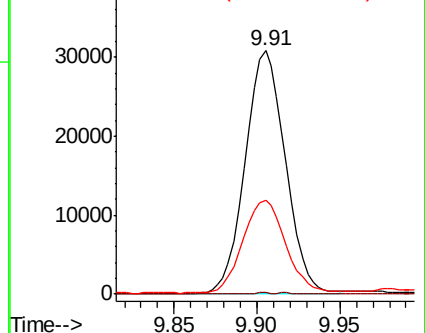
39 37.6 43.8 65.8#

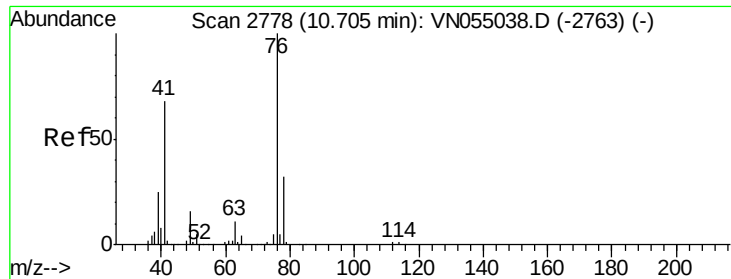


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

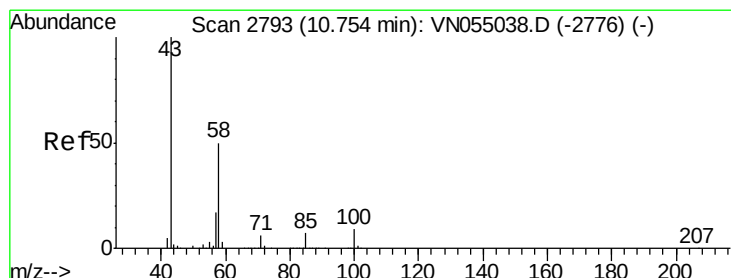
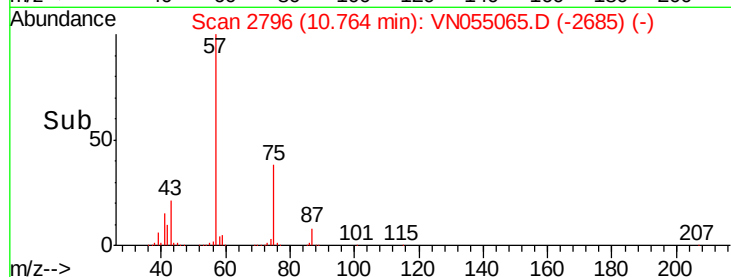
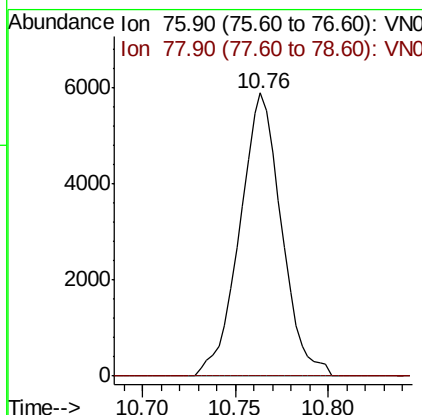
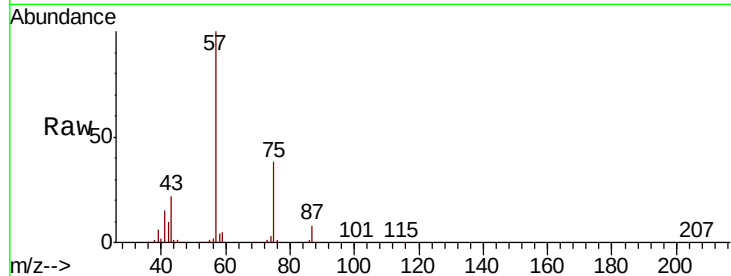




#57
 1,3-Dichloropropane
 Concen: 1.028 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN055065.D
 Acq: 16 Apr 2019 1:18

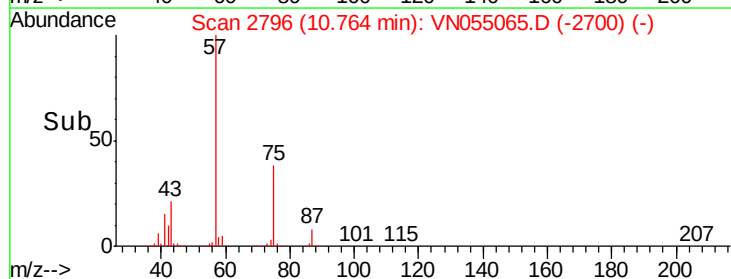
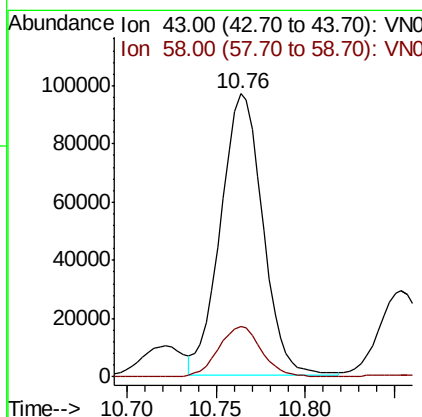
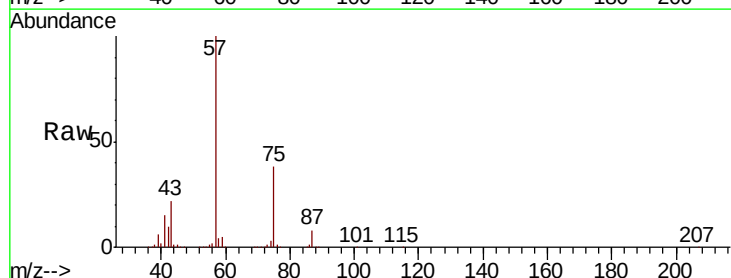
Instrument :
 MSVOA_N
 ClientSampled :
 TP-3-D

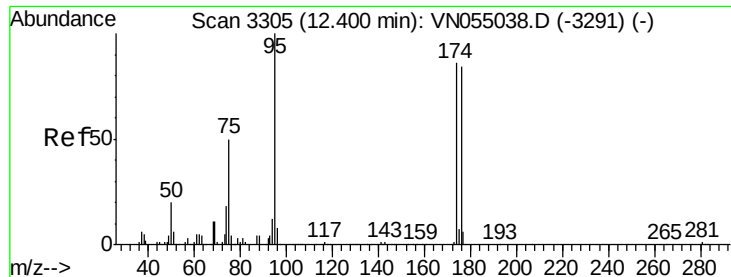
Tot Ion: 76 Resp: 9199
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 43.938 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055065.D
 Acq: 16 Apr 2019 1:18

Tgt Ion: 43 Resp: 158045
 Ion Ratio Lower Upper
 43 100
 58 18.5 25.1 75.2#

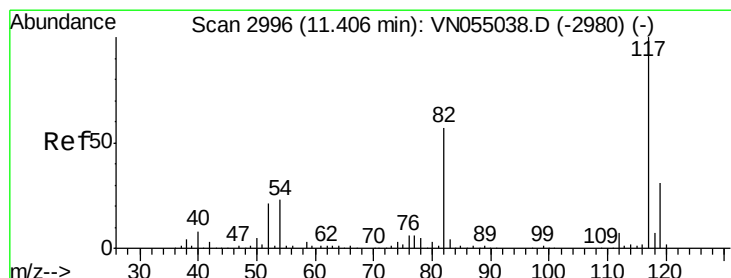
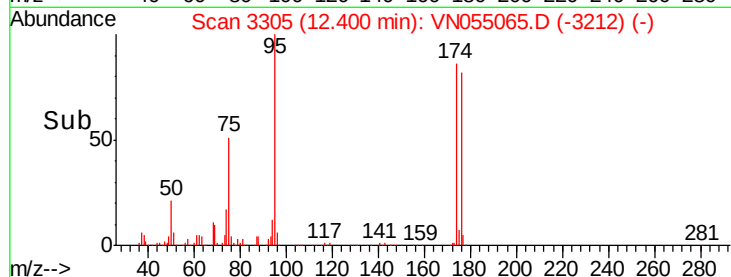
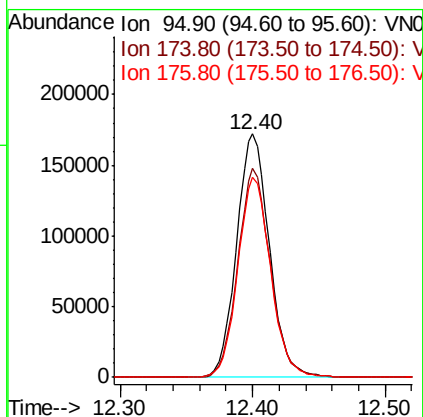
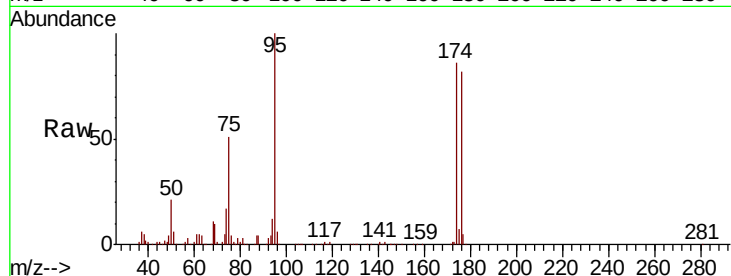




#62
4-Bromofluorobenzene
Concen: 45.313 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055065.D
Acq: 16 Apr 2019 1:18

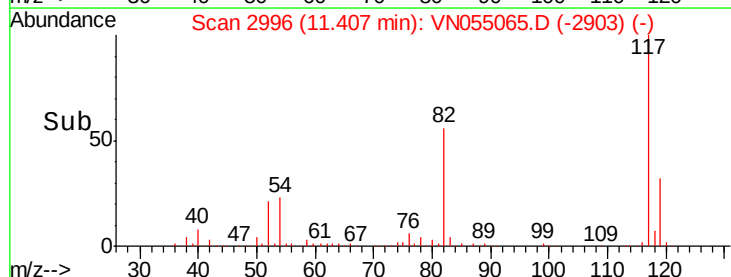
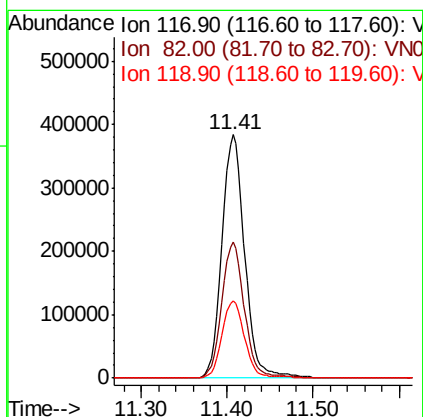
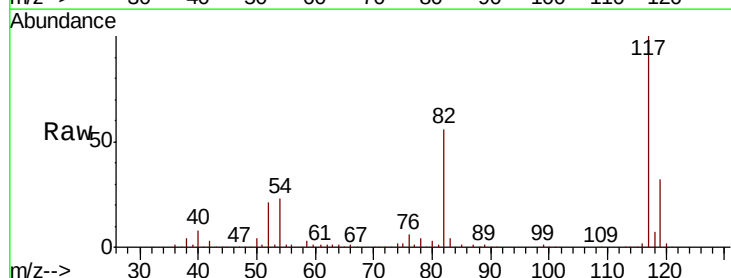
Instrument :
MSVOA_N
ClientSampleId :
TP-3-D

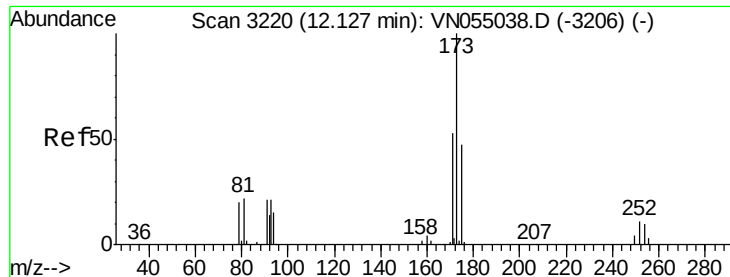
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.4	0.0	174.4
176	82.3	0.0	166.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055065.D
Acq: 16 Apr 2019 1:18

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.8	44.6	66.8
119	31.8	25.5	38.3





#71

Bromoform

Concen: 0.203 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3-D

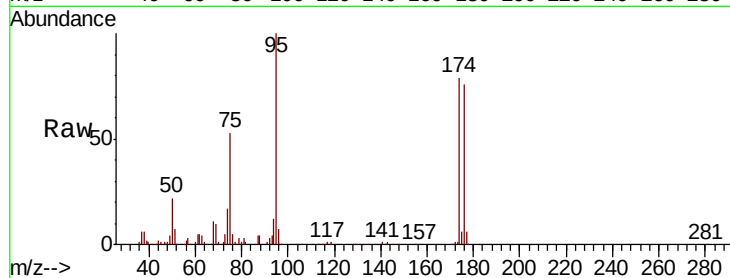
Tot Ion:173 Resp: 610

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

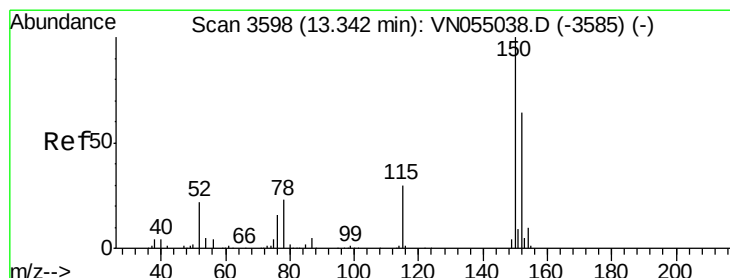
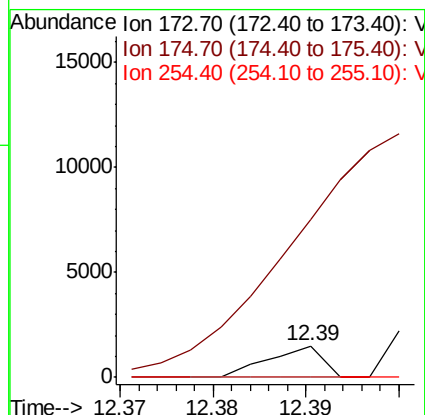
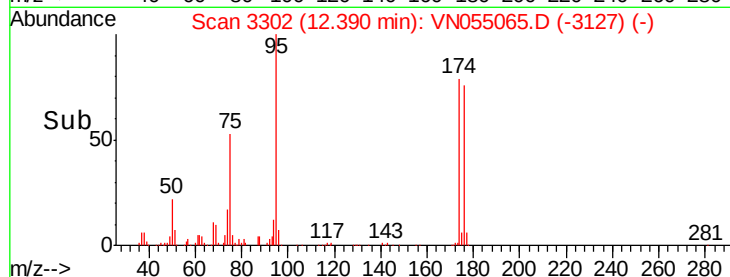
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

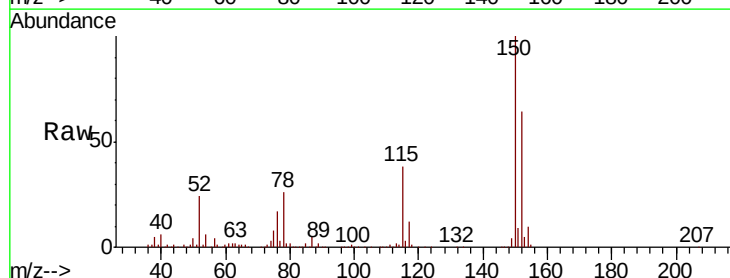
Tgt Ion:152 Resp: 228040

Ion Ratio Lower Upper

152 100

115 58.8 28.5 85.6

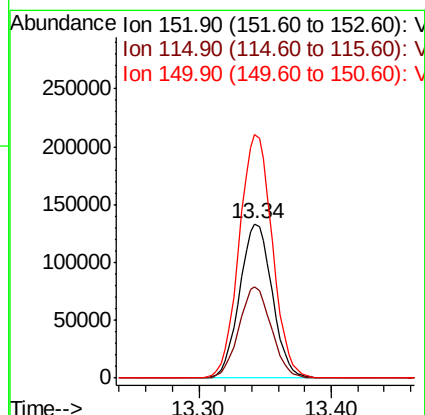
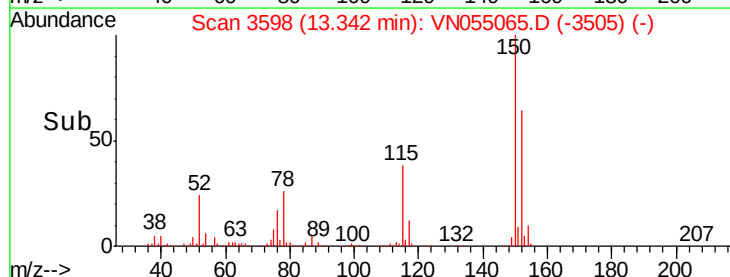
150 160.2 0.0 347.2

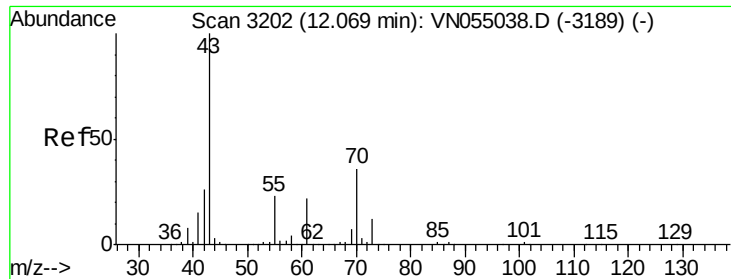


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.234 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3-D

Tot Ion: 43 Resp: 12726

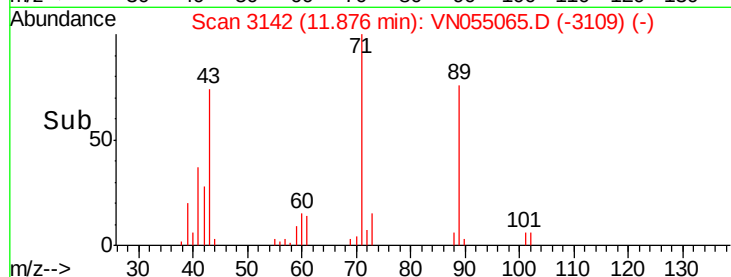
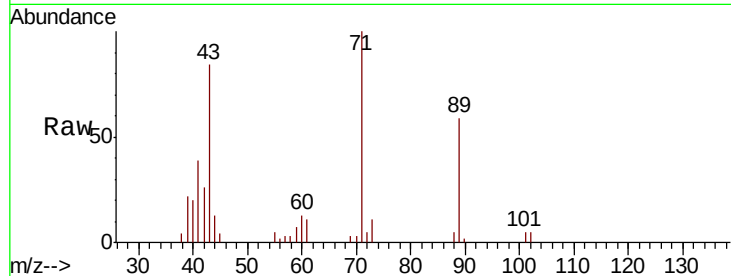
Ion Ratio Lower Upper

43 100

70 2.7 29.4 44.0#

55 5.3 19.0 28.4#

61 11.4 17.7 26.5#

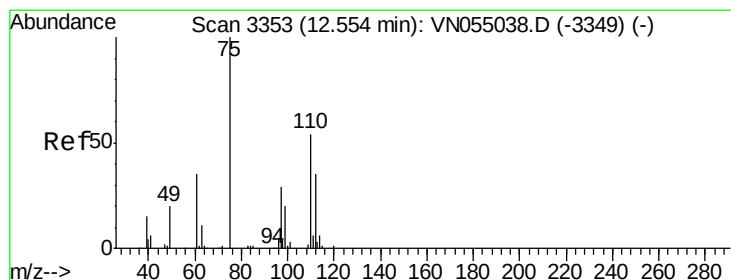
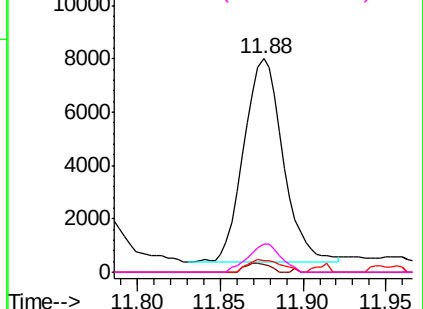


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 36.494 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055065.D

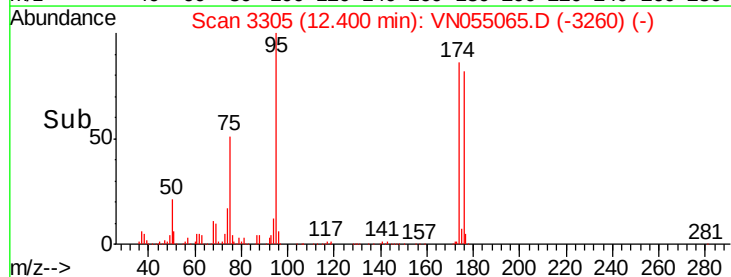
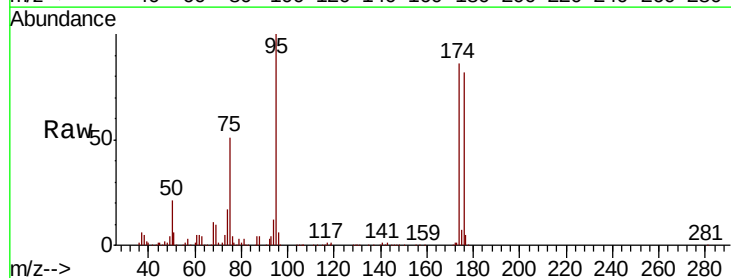
Acq: 16 Apr 2019 1:18

Tgt Ion: 75 Resp: 149652

Ion Ratio Lower Upper

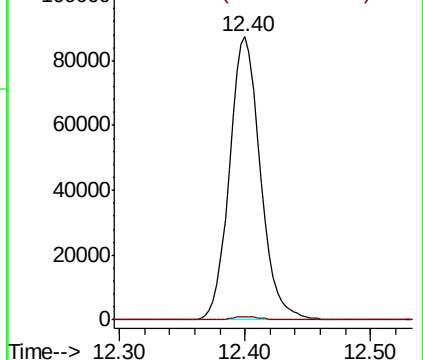
75 100

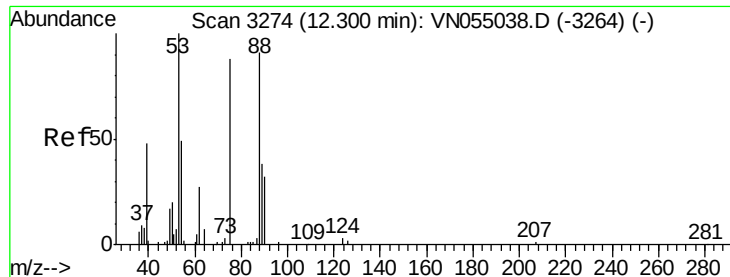
77 1.2 0.0 0.0#



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: 145.935 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3-D

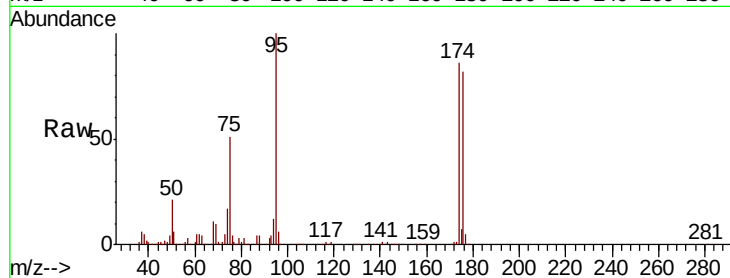
Tot Ion: 75 Resp: 149652

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

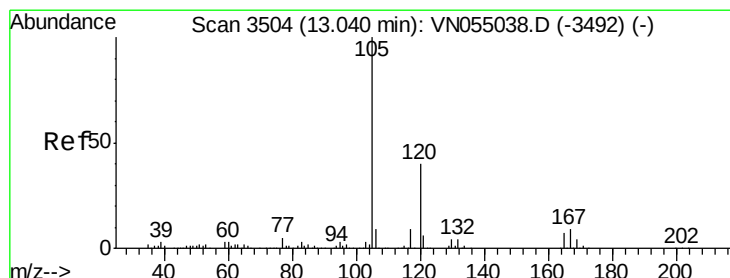
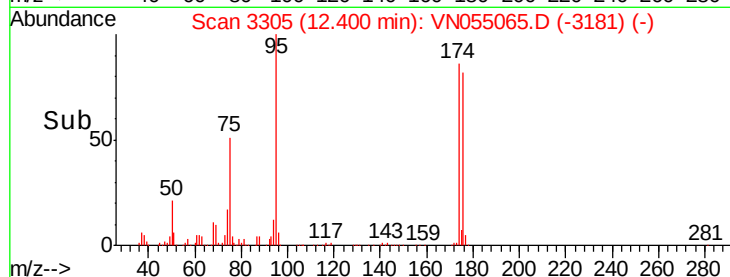
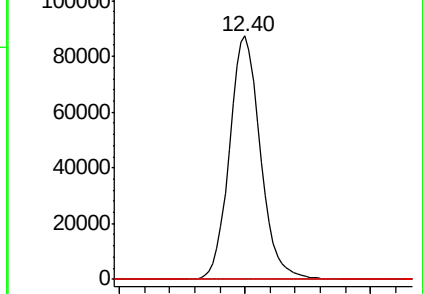
89 0.0 38.6 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VN055065.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055065.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055065.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.237 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN055065.D

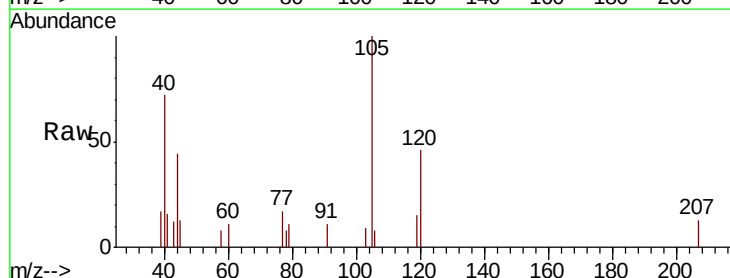
Acq: 16 Apr 2019 1:18

Tgt Ion: 105 Resp: 3661

Ion Ratio Lower Upper

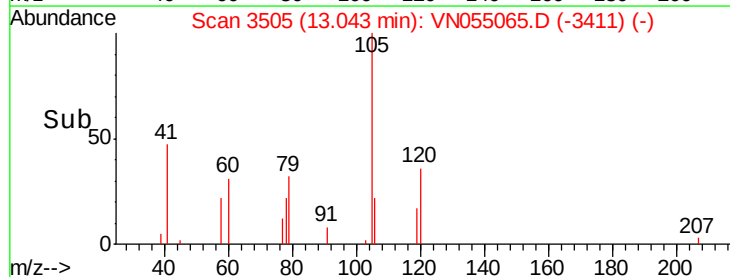
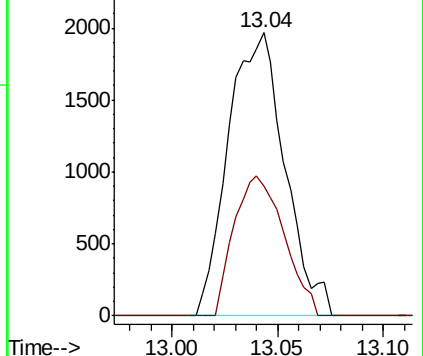
105 100

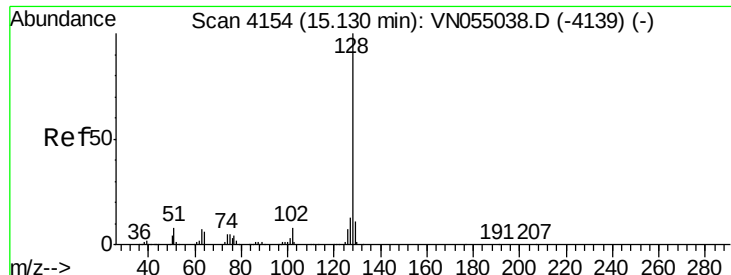
120 43.8 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): VN055065.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN055065.D (-3411) (-)





#95

Naphthalene

Concen: 3.375 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055065.D

Acq: 16 Apr 2019 1:18

Instrument :

MSVOA_N

ClientSampleId :

TP-3-D

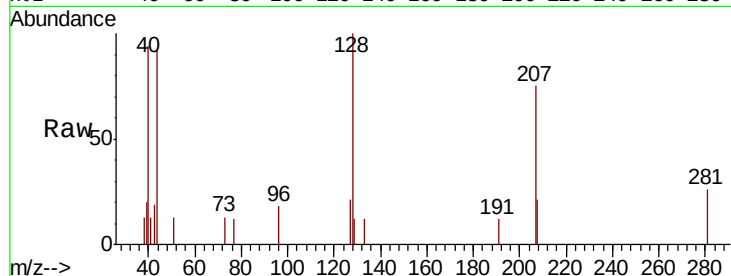
Tot Ion:128 Resp: 2574

Ion Ratio Lower Upper

128 100

127 8.5 10.1 15.1#

129 6.4 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

