

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049811.D
 Acq On : 13 Jul 2018 21:20
 Operator : MD\SY
 Sample : PB111069ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#01

Quant Time: Jul 13 23:54:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1165543	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1925112	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1588752	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	588122	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	807022	59.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.04%	
35) Dibromofluoromethane	7.60	113	724724	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	
50) Toluene-d8	10.09	98	2597303	52.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.58%	
62) 4-Bromofluorobenzene	12.40	95	707666	39.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.78%	

Target Compounds

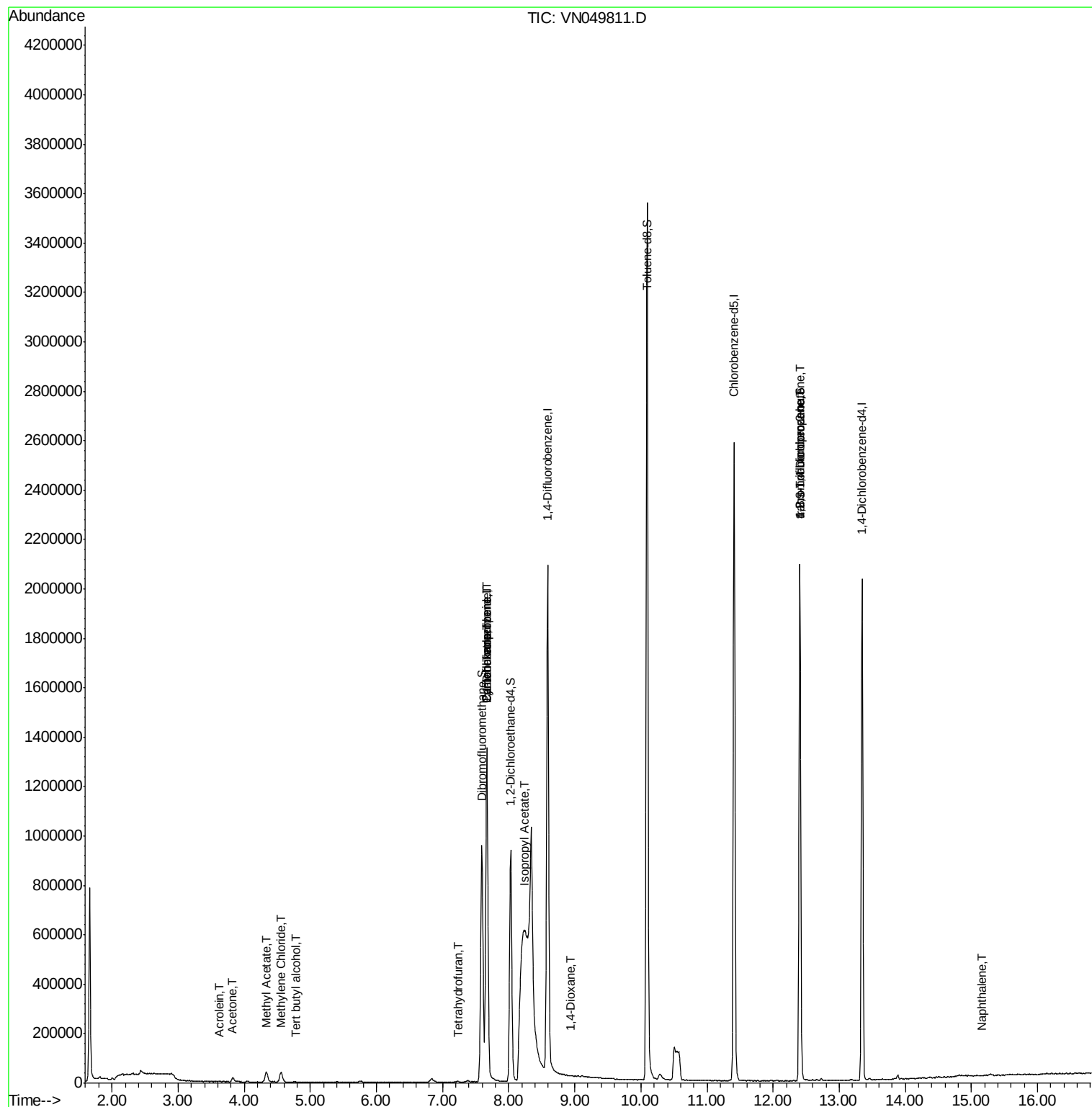
						Qvalue
3) Chloromethane	2.06	50	1786	Below Cal	#	57
4) Vinyl Chloride	2.18	62	69	Below Cal		94
5) Bromomethane	2.57	94	874	Below Cal	#	40
11) Tert butyl alcohol	4.77	59	520	0.57	ug/l #	72
13) Acrolein	3.61	56	219	0.27	ug/l #	83
16) Acetone	3.82	43	25827	5.71	ug/l	89
17) Carbon Disulfide	4.06	76	3033	Below Cal	#	87
18) Methyl Acetate	4.34	43	82107	6.61	ug/l	99
20) Methylene Chloride	4.56	84	30661	1.31	ug/l	88
29) Tetrahydrofuran	7.23	42	1645	0.50	ug/l #	47
31) Cyclohexane	7.67	56	21364	0.76	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	80662	3.64	ug/l #	49
38) Carbon Tetrachloride	7.67	117	106554	4.59	ug/l #	16
43) Isopropyl Acetate	8.23	43	851660	36.08	ug/l #	63
49) 1,4-Dioxane	8.93	88	34	0.22	ug/l #	26
55) 1,1,2-Trichloroethane	10.57	97	946	Below Cal	#	19
75) 1,1,2,2-Tetrachloroethane	12.51	83	264	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	343235	32.85	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	343235	106.09	ug/l #	13
90) Hexachloroethane	13.79	117	94	Below Cal	#	4
92) 1,2-Dibromo-3-Chloropropan	14.26	75	268	Below Cal	#	1
95) Naphthalene	15.14	128	330	4.04	ug/l #	69

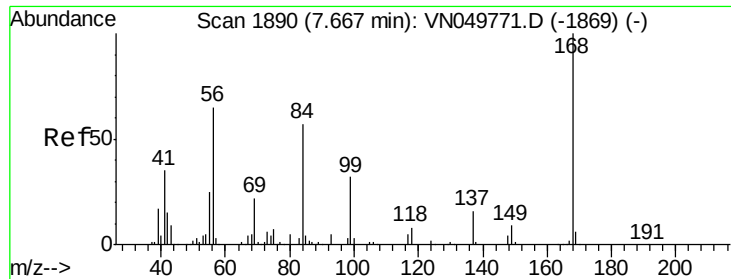
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049811.D

Acq: 13 Jul 2018 21:20

Instrument :

MSVOA_N

ClientSampleId :

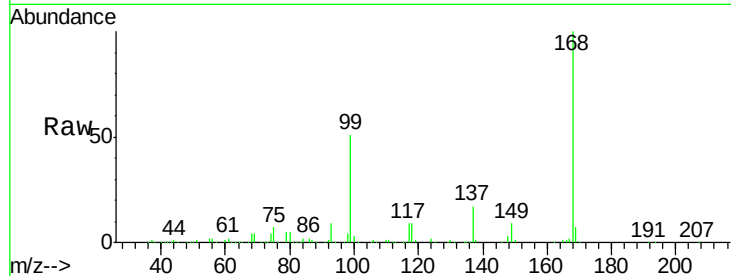
PB111069ZHE#01

Tot Ion:168 Resp: 1165543

Ion Ratio Lower Upper

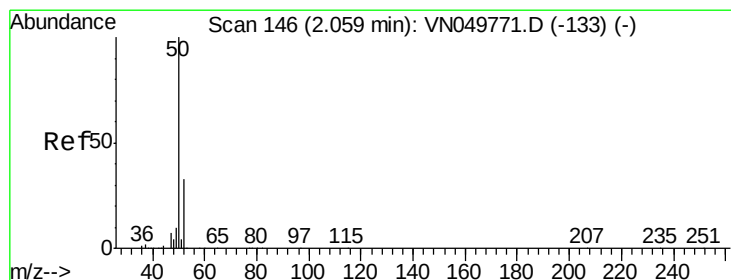
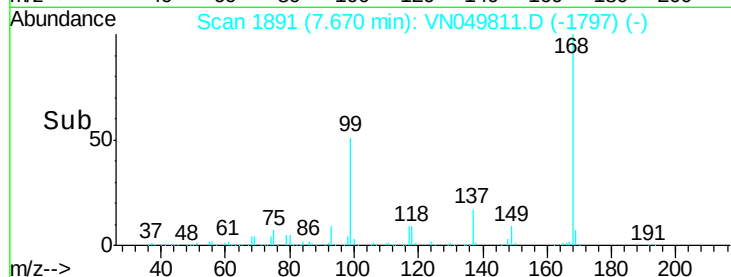
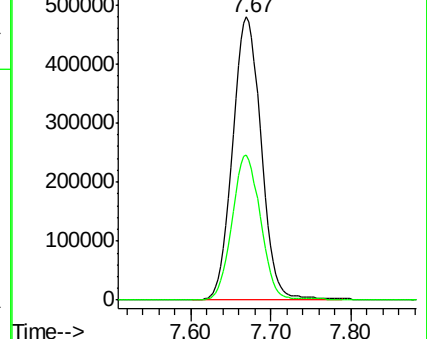
168 100

99 51.3 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049811.D

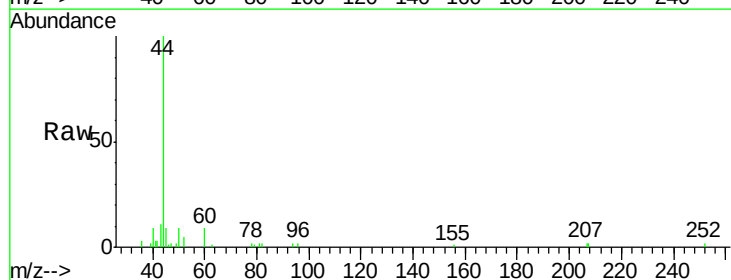
Acq: 13 Jul 2018 21:20

Tgt Ion: 50 Resp: 1786

Ion Ratio Lower Upper

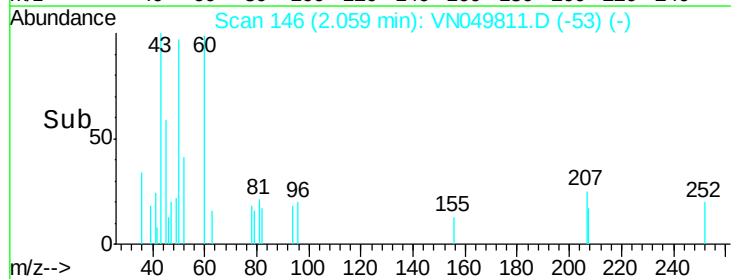
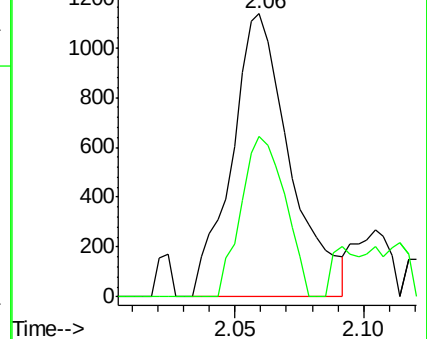
50 100

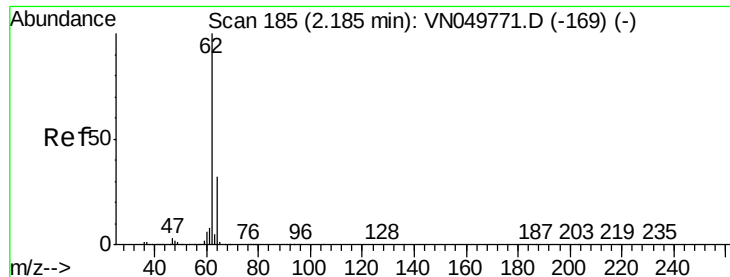
52 56.9 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049811.D

Acq: 13 Jul 2018 21:20

Instrument :

MSVOA_N

ClientSampleId :

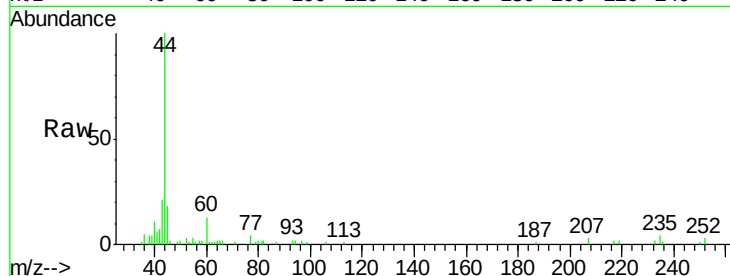
PB111069ZHE#01

Tot Ion: 62 Resp: 69

Ion Ratio Lower Upper

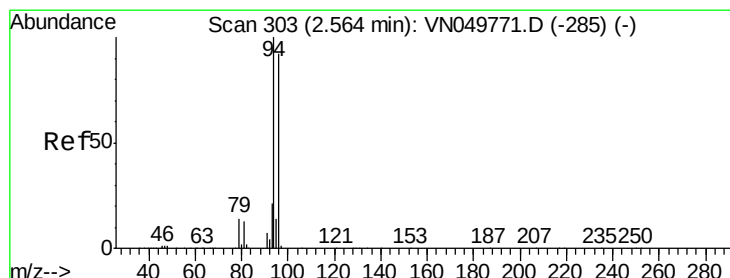
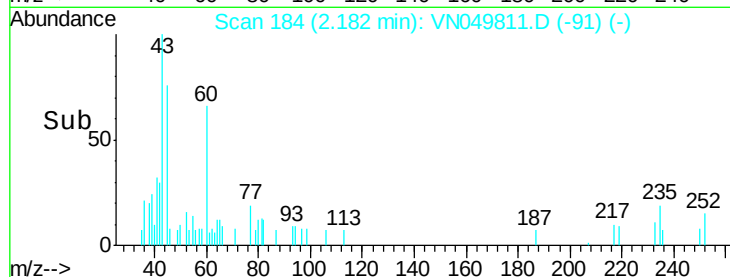
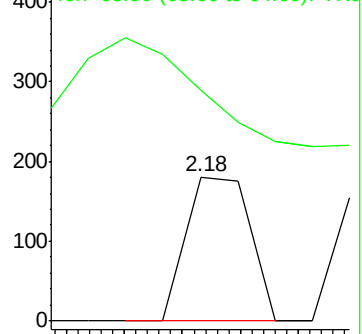
62 100

64 34.8 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049811.D

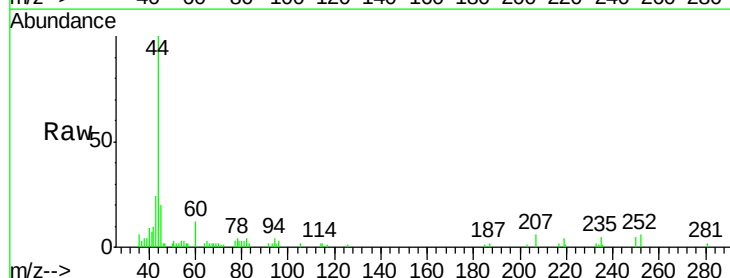
Acq: 13 Jul 2018 21:20

Tgt Ion: 94 Resp: 874

Ion Ratio Lower Upper

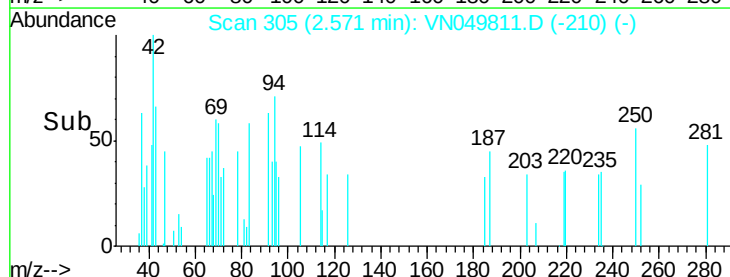
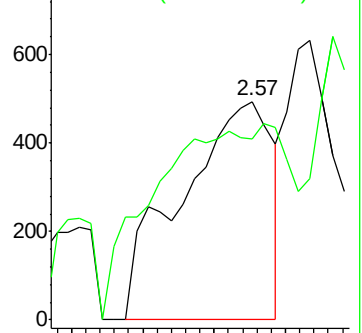
94 100

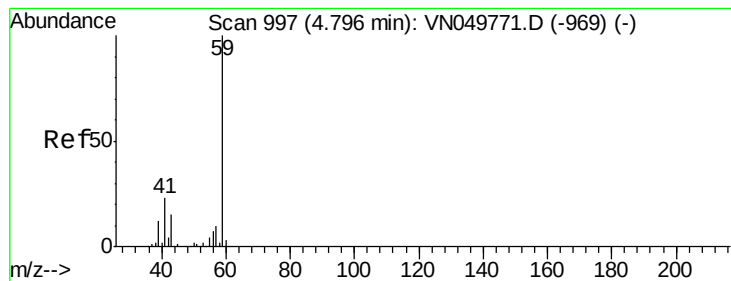
96 36.0 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#11

Tert butyl alcohol

Concen: 0.57 ug/l

RT: 4.77 min Scan# 990

Delta R.T. -0.02 min

Lab File: VN049811.D

Acq: 13 Jul 2018 21:20

Instrument :

MSVOA_N

ClientSampleId :

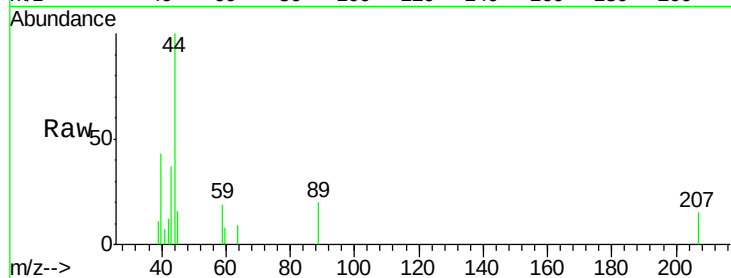
PB111069ZHE#01

Tot Ion: 59 Resp: 520

Ion Ratio Lower Upper

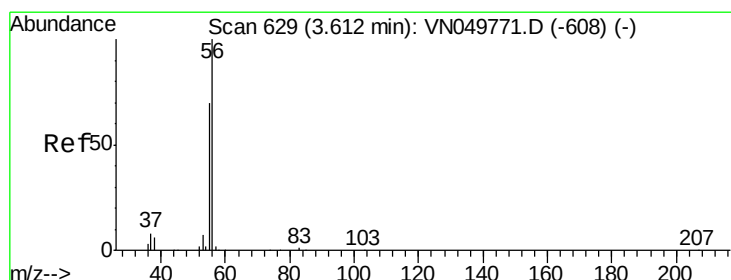
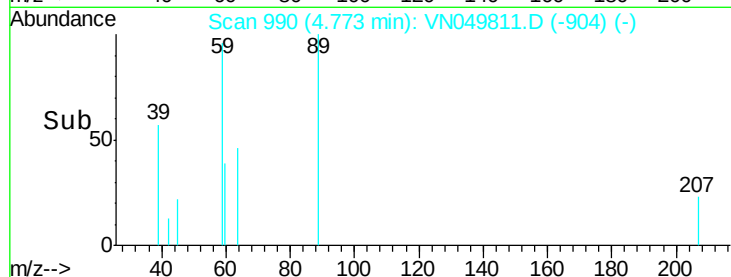
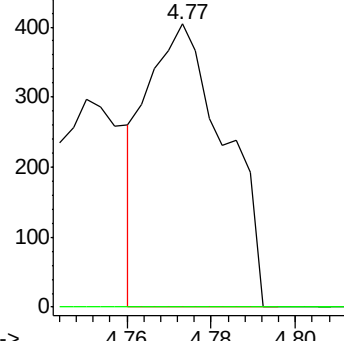
59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: 0.27 ug/l

RT: 3.61 min Scan# 629

Delta R.T. -0.00 min

Lab File: VN049811.D

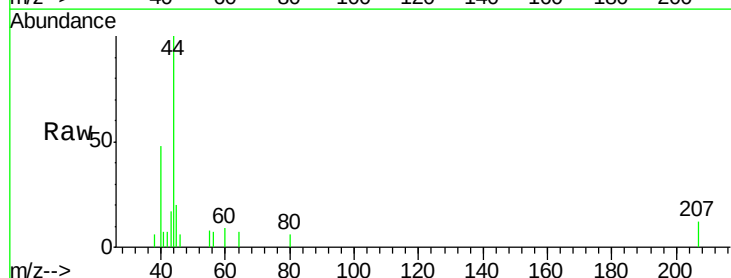
Acq: 13 Jul 2018 21:20

Tgt Ion: 56 Resp: 219

Ion Ratio Lower Upper

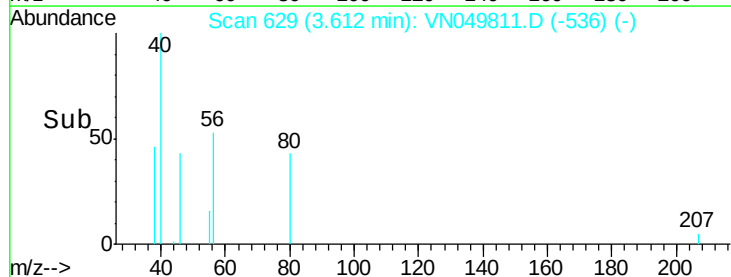
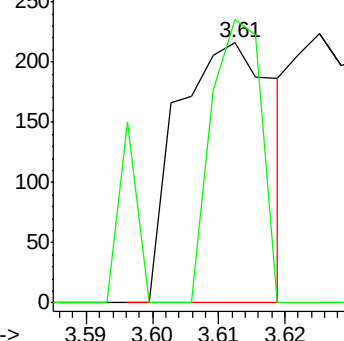
56 100

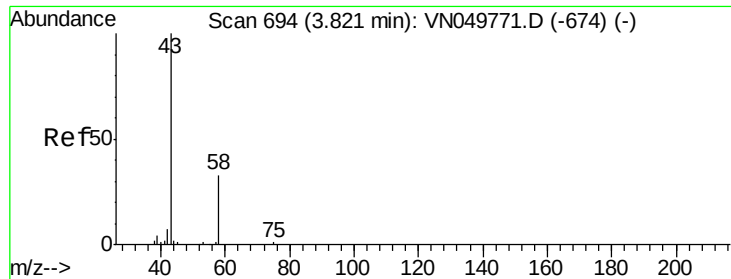
55 55.7 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

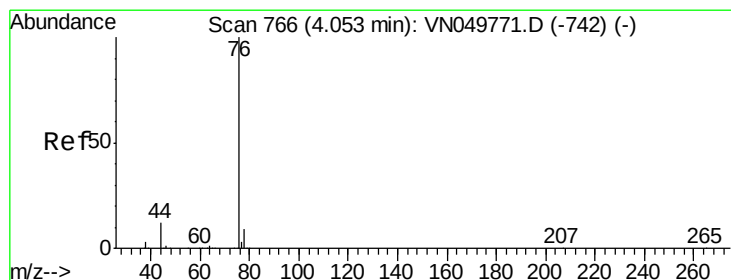
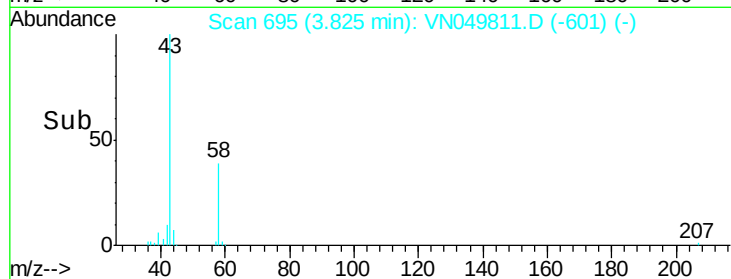
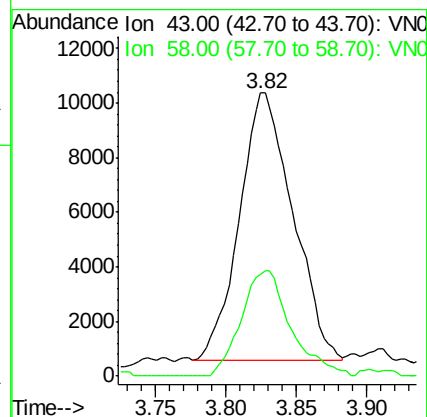
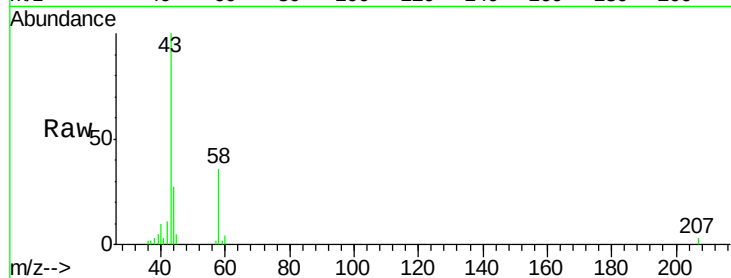




#16
Acetone
Concen: 5.71 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

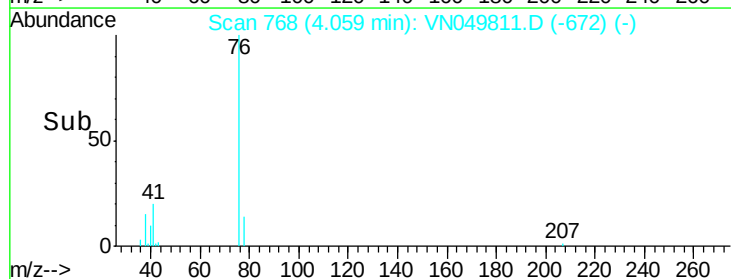
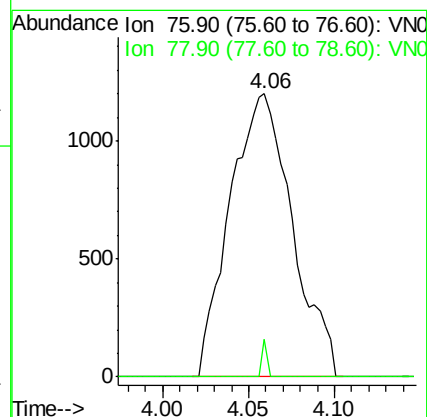
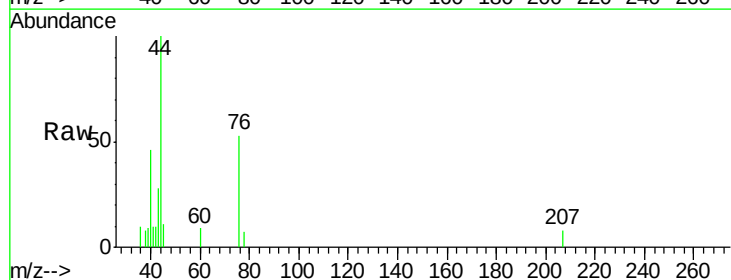
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#01

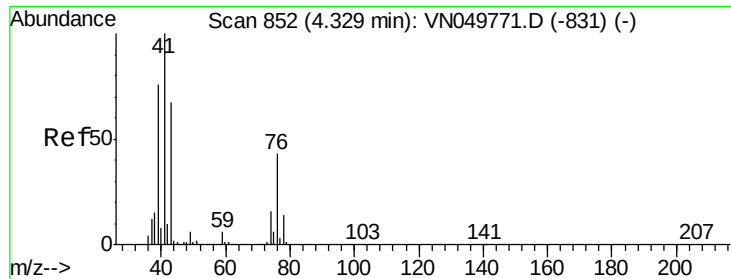
Tot Ion: 43 Resp: 25827
Ion Ratio Lower Upper
43 100
58 38.3 25.9 38.9



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.06 min Scan# 768
Delta R.T. 0.01 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

Tgt Ion: 76 Resp: 3033
Ion Ratio Lower Upper
76 100
78 13.5 7.1 10.7#

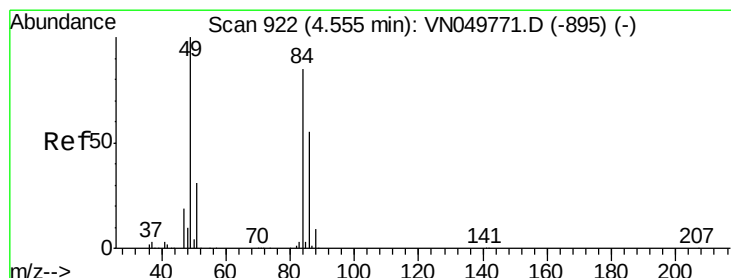
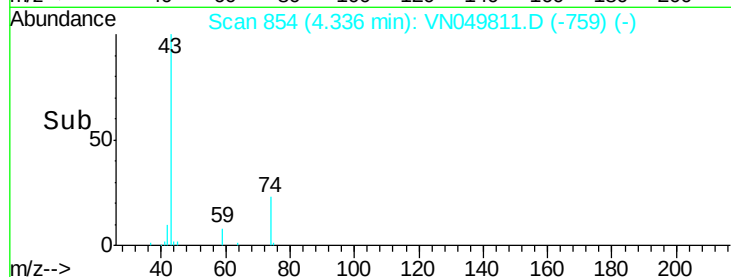
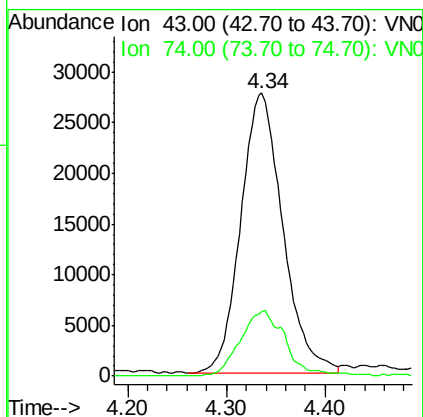
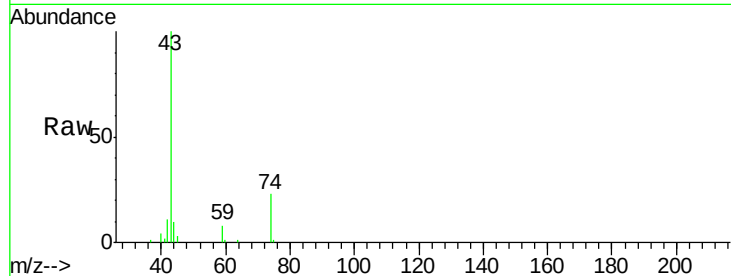




#18
Methvl Acetate
Concen: 6.61 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

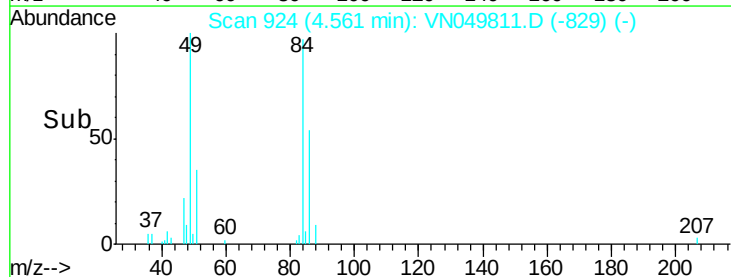
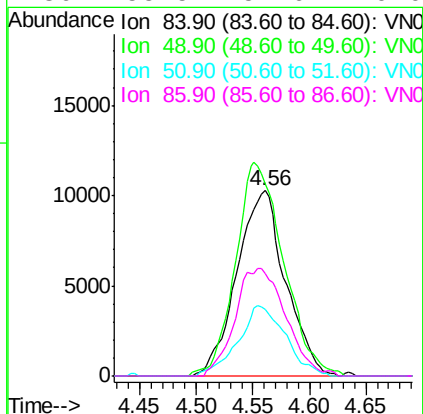
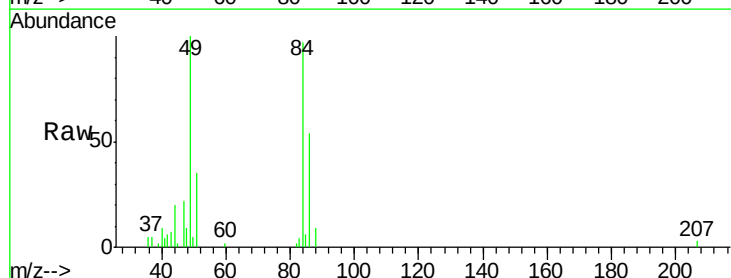
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#01

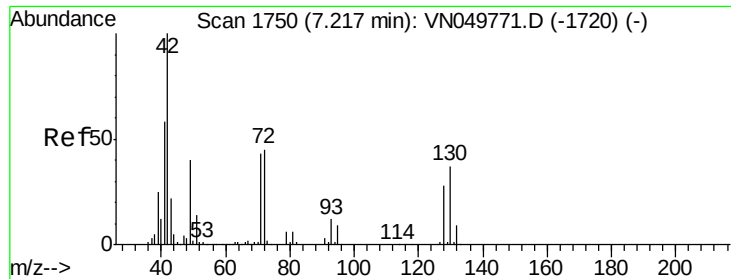
Tot Ion: 43 Resp: 82107
Ion Ratio Lower Upper
43 100
74 24.4 19.8 29.8



#20
Methylene Chloride
Concen: 1.31 ug/l
RT: 4.56 min Scan# 924
Delta R.T. 0.01 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

Tgt Ion: 84 Resp: 30661
Ion Ratio Lower Upper
84 100
49 103.6 95.4 143.2
51 36.1 28.4 42.6
86 55.5 52.6 79.0





#29

Tetrahydrofuran

Concen: 0.50 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN049811.D

Acq: 13 Jul 2018 21:20

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#01

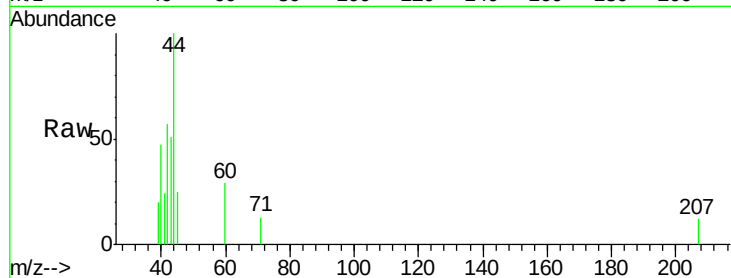
Tot Ion: 42 Resp: 1645

Ion Ratio Lower Upper

42 100

72 4.3 35.6 53.4#

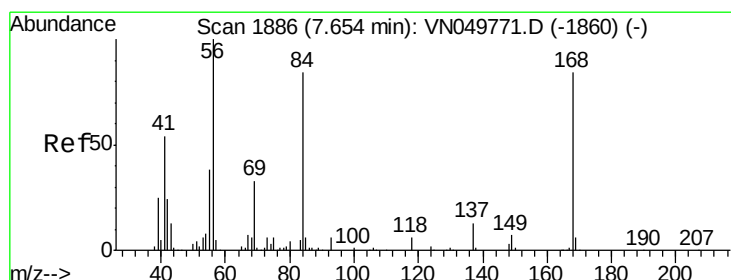
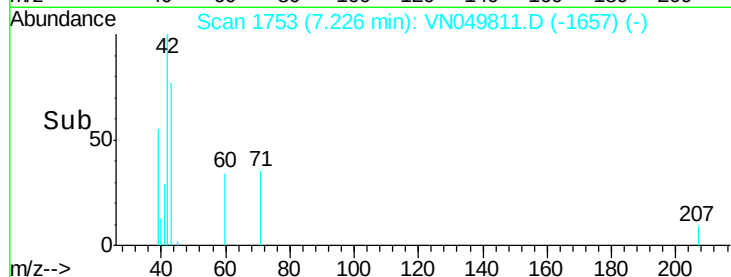
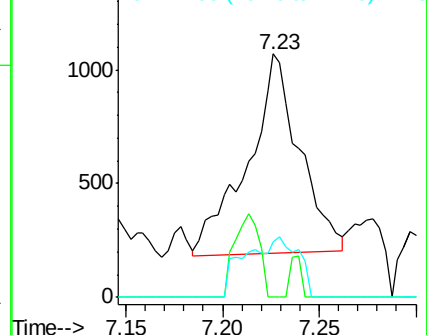
71 15.3 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.76 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN049811.D

Acq: 13 Jul 2018 21:20

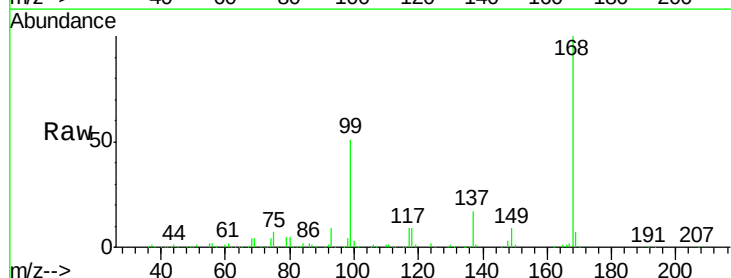
Tgt Ion: 56 Resp: 21364

Ion Ratio Lower Upper

56 100

69 186.2 26.6 40.0#

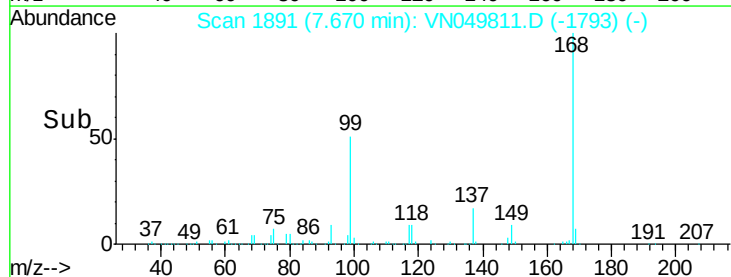
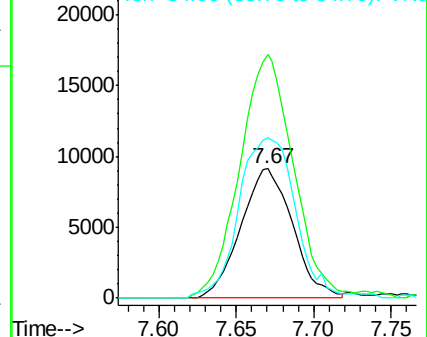
84 121.1 69.0 103.6#

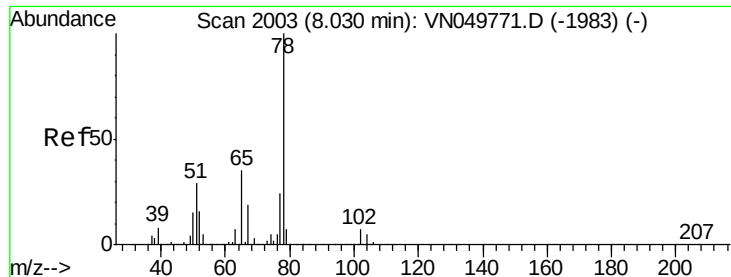


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

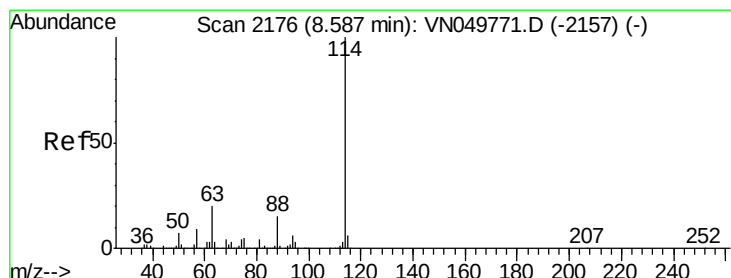
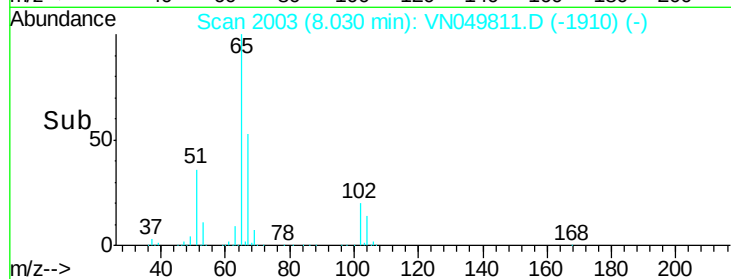
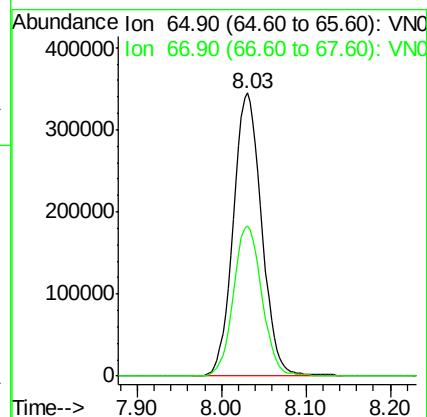
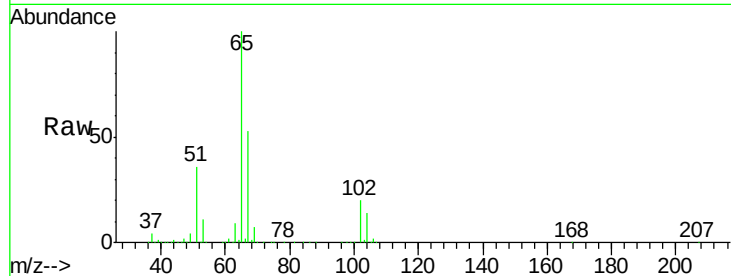




#33
 1,2-Dichloroethane-d4
 Concen: 59.52 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN049811.D
 Acq: 13 Jul 2018 21:20

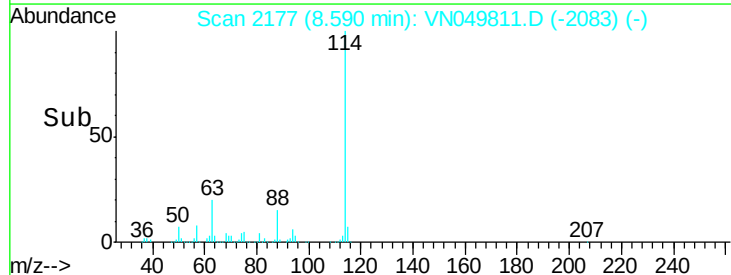
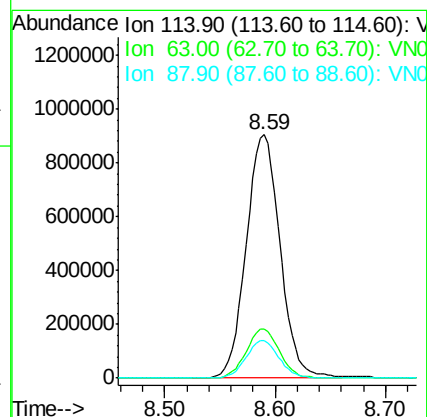
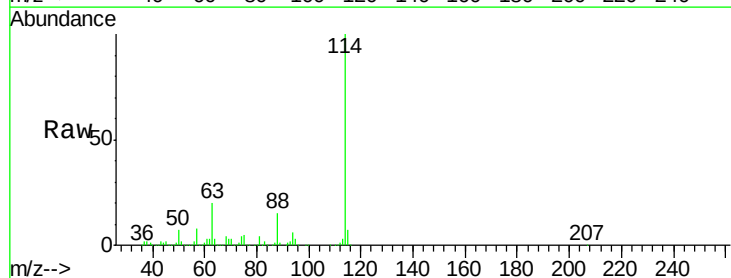
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#01

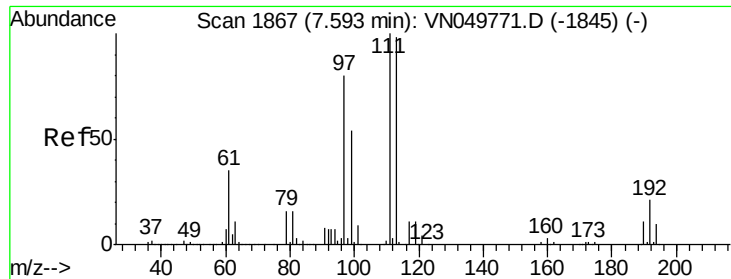
Tot Ion: 65 Resp: 807022
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049811.D
 Acq: 13 Jul 2018 21:20

Tgt Ion: 114 Resp: 1925112
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.8
 88 15.2 0.0 30.6

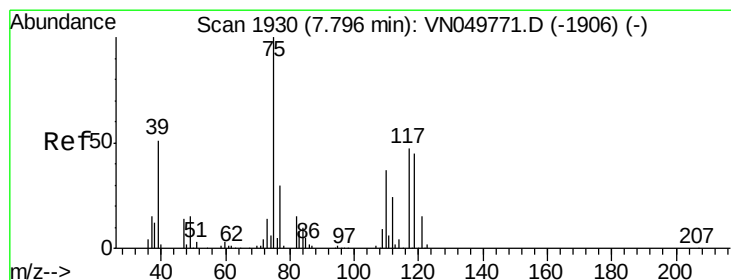
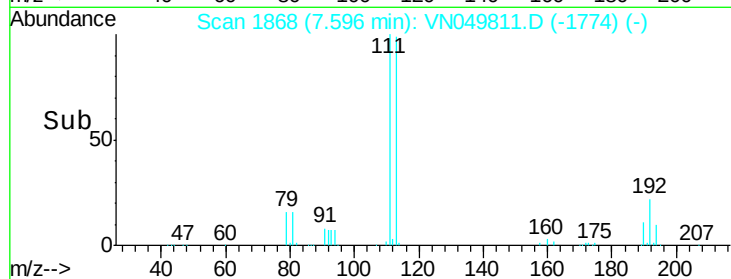
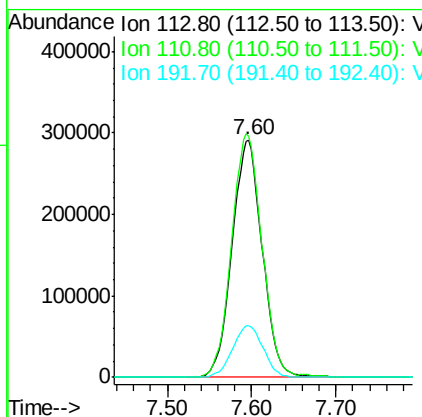
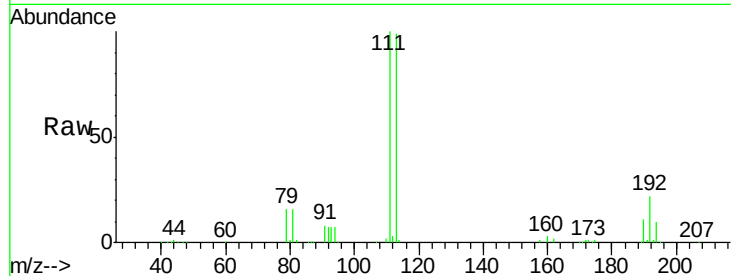




#35
 Dibromofluoromethane
 Concen: 49.94 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN049811.D
 Acq: 13 Jul 2018 21:20

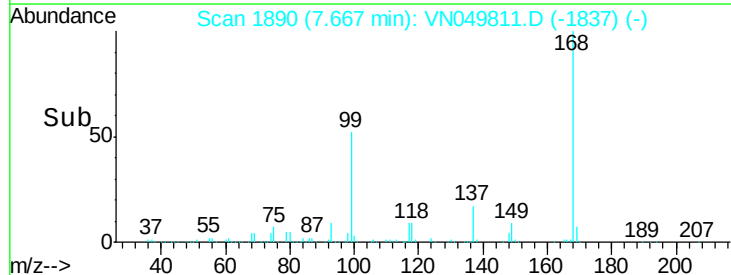
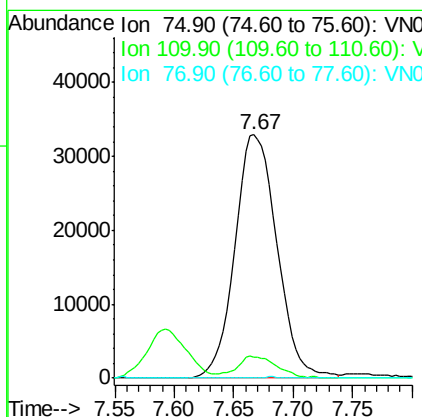
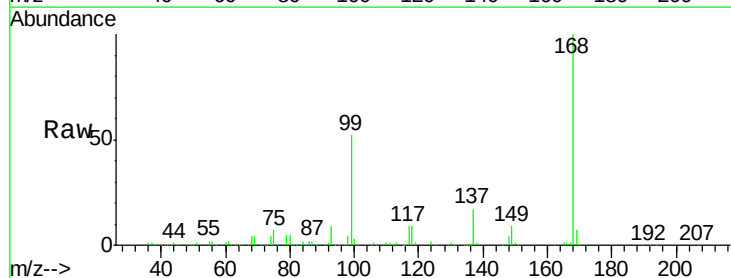
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#01

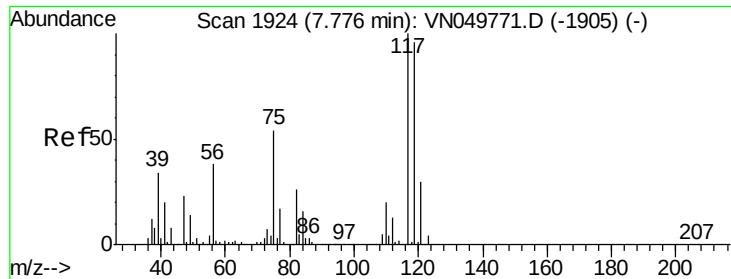
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.8	122.8
192	22.1	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.64 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049811.D
 Acq: 13 Jul 2018 21:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.1	54.4#
77	0.1	24.9	37.3#

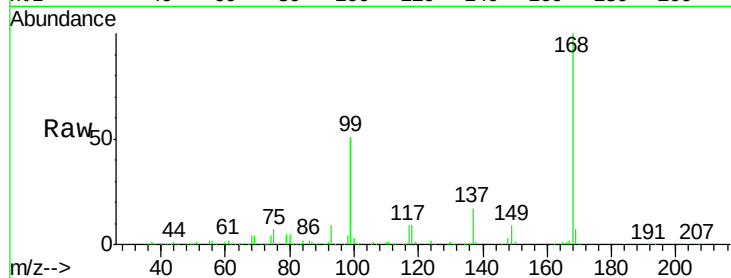




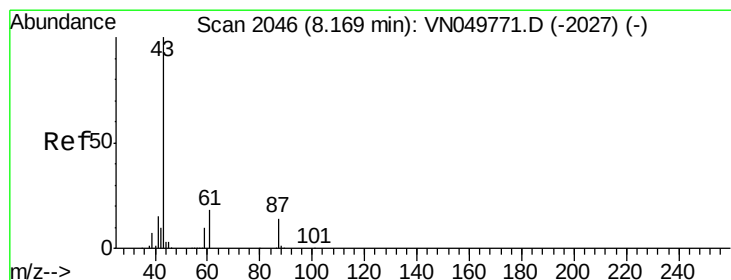
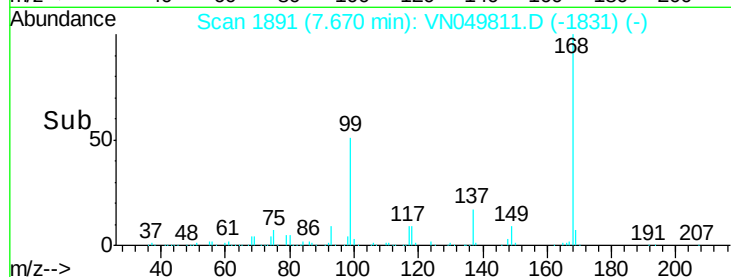
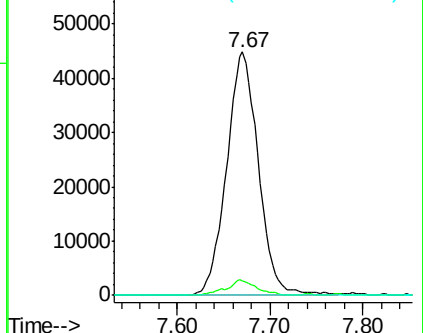
#38
Carbon Tetrachloride
Concen: 4.59 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#01

Tot Ion:117 Resp: 106554
Ion Ratio Lower Upper
117 100
119 6.1 77.2 115.8#
121 0.0 25.0 37.6#

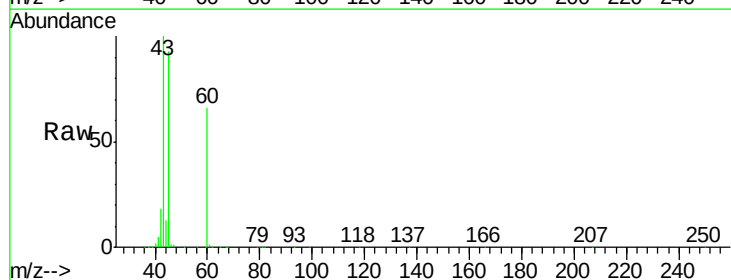


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

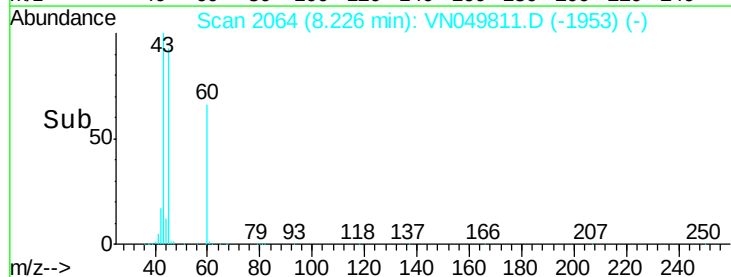
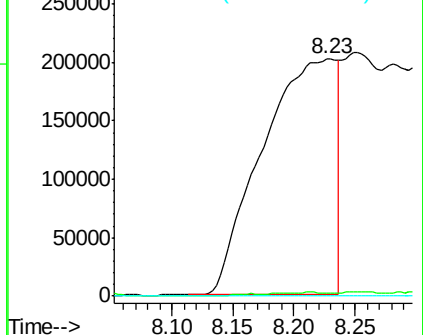


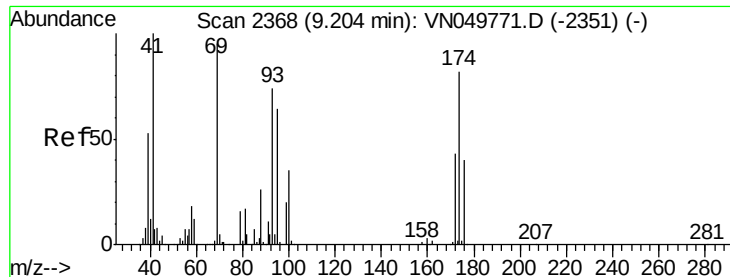
#43
Isopropyl Acetate
Concen: 36.08 ug/l
RT: 8.23 min Scan# 2064
Delta R.T. 0.06 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

Tgt Ion: 43 Resp: 851660
Ion Ratio Lower Upper
43 100
61 0.6 14.9 22.3#
87 0.0 10.0 15.0#



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

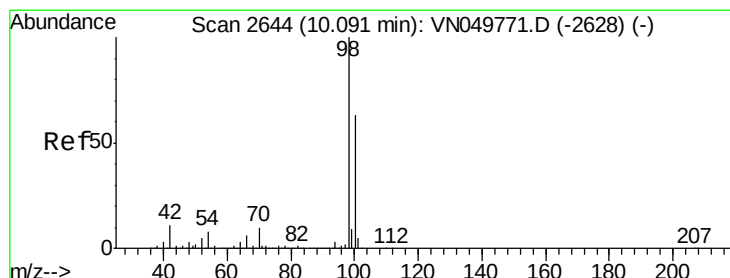
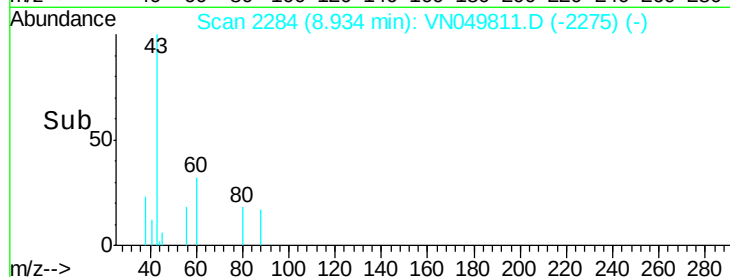
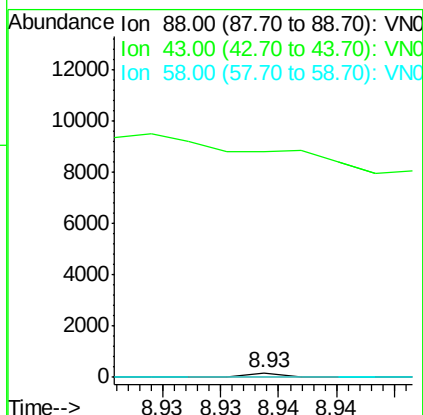
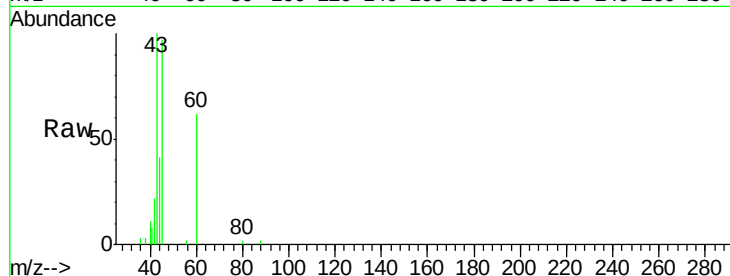




#49
1,4-Dioxane
Concen: 0.22 ug/l
RT: 8.93 min Scan# 2284
Delta R.T. -0.27 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

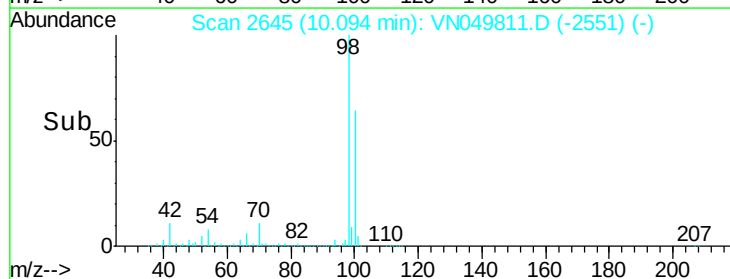
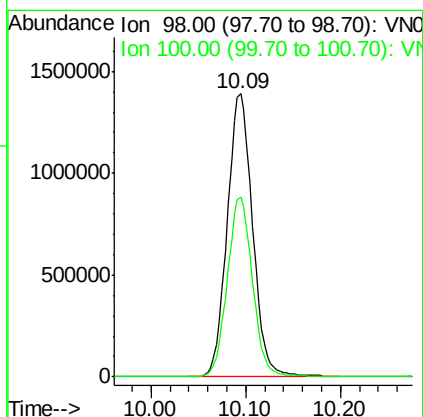
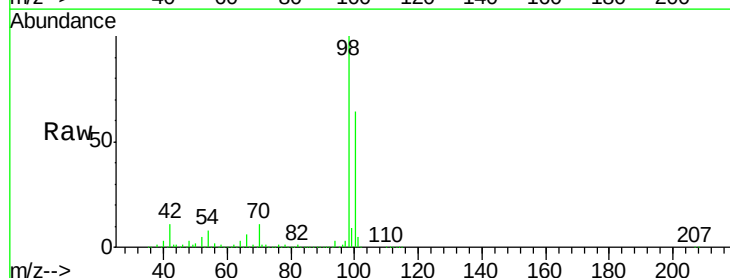
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#01

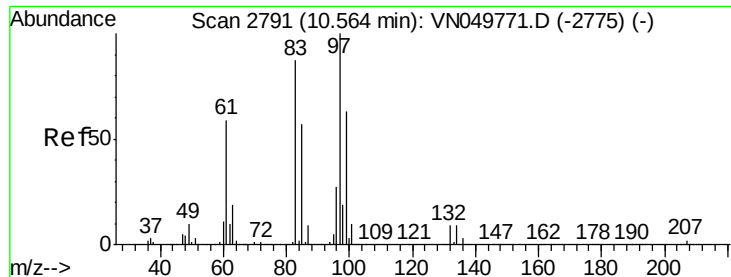
Tot Ion: 88 Resp: 34
Ion Ratio Lower Upper
88 100
43 0.0 25.1 37.7#
58 0.0 52.5 78.7#



#50
Toluene-d8
Concen: 52.29 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

Tgt Ion: 98 Resp: 2597303
Ion Ratio Lower Upper
98 100
100 63.1 51.7 77.5

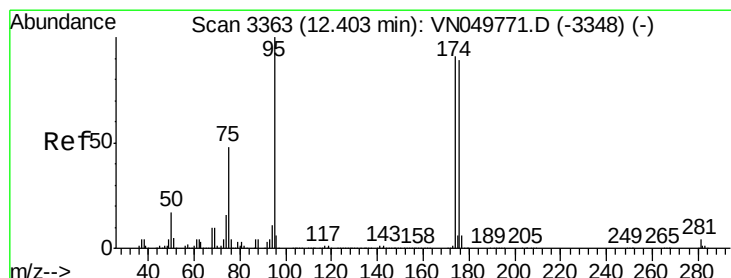
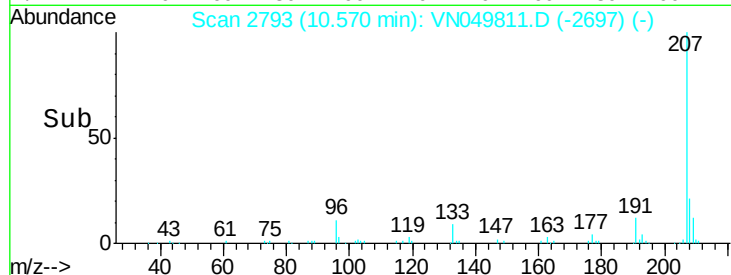
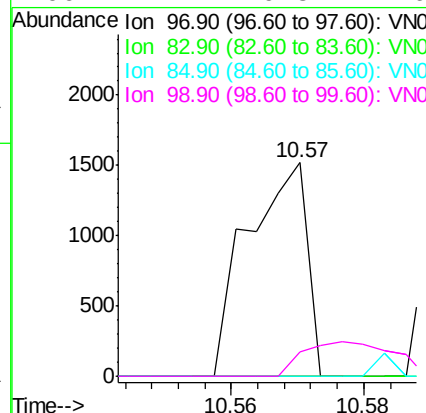
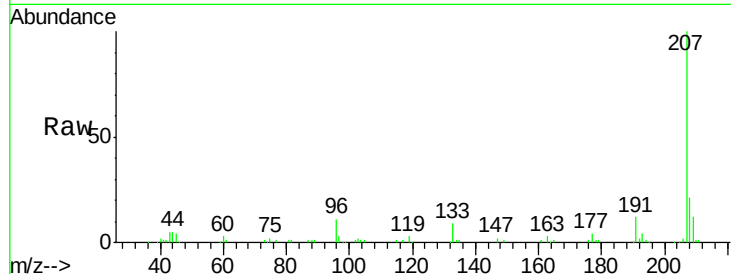




#55
 1,1,2-Trichloroethane
 Concen: Below Cal
 RT: 10.57 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN049811.D
 Acq: 13 Jul 2018 21:20

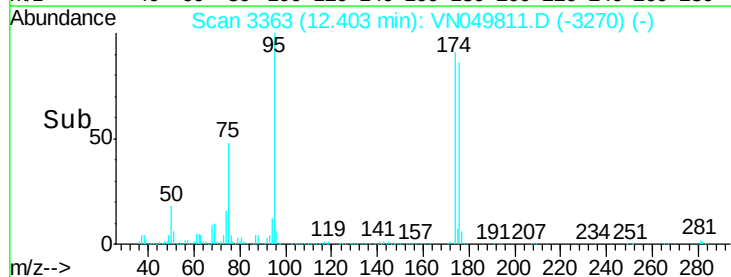
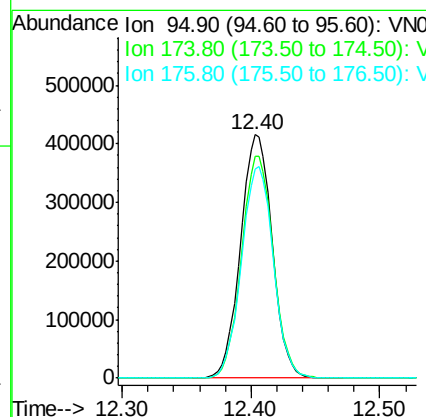
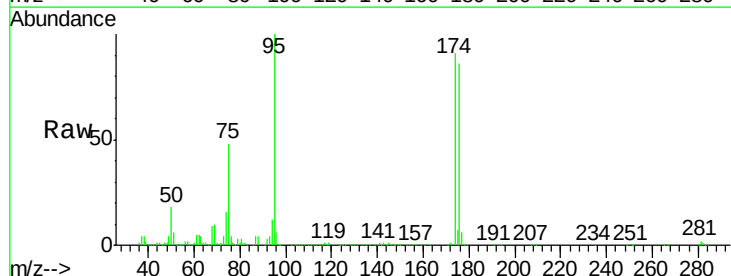
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#01

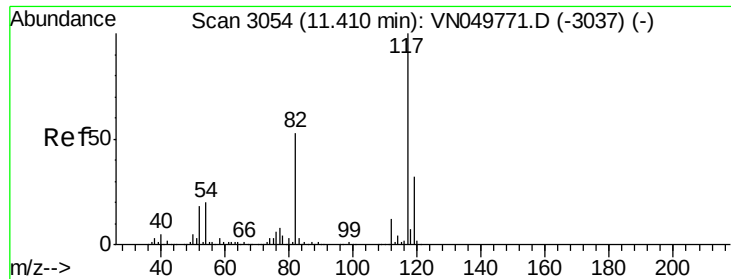
Tot Ion:	97	Resp:	946
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.0	103.6#
85	0.0	44.9	67.3#
99	11.1	49.8	74.6#



#62
 4-Bromofluorobenzene
 Concen: 39.89 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.00 min
 Lab File: VN049811.D
 Acq: 13 Jul 2018 21:20

Tgt Ion:	95	Resp:	707666
Ion	Ratio	Lower	Upper
95	100		
174	91.7	0.0	179.6
176	87.5	0.0	174.0

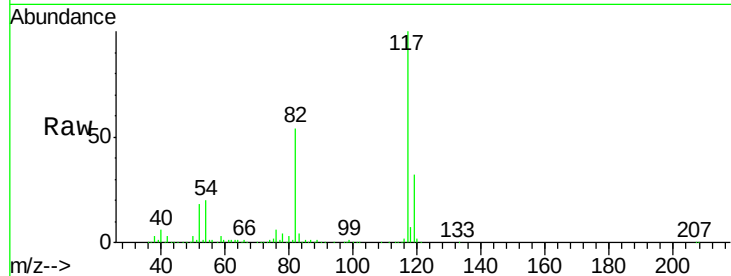




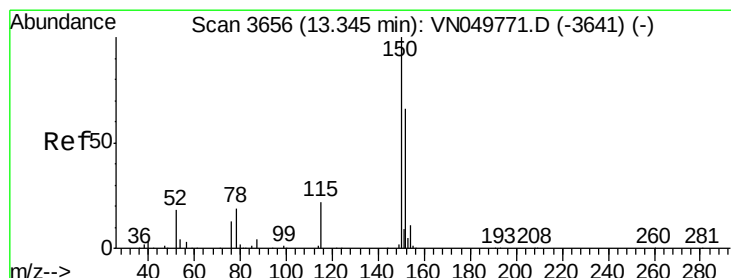
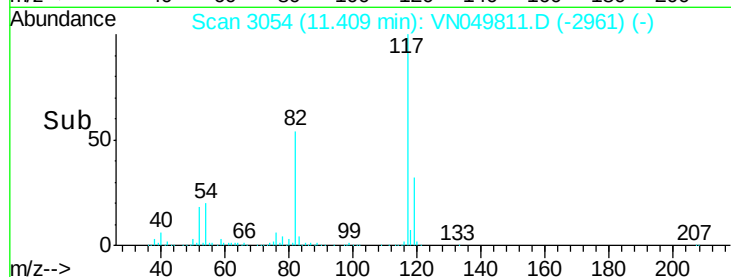
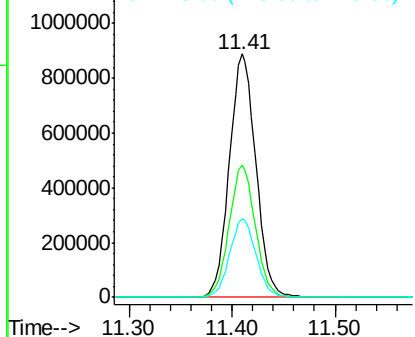
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#01

Tot Ion:117 Resp: 1588752
Ion Ratio Lower Upper
117 100
82 54.4 41.9 62.9
119 32.3 25.4 38.2

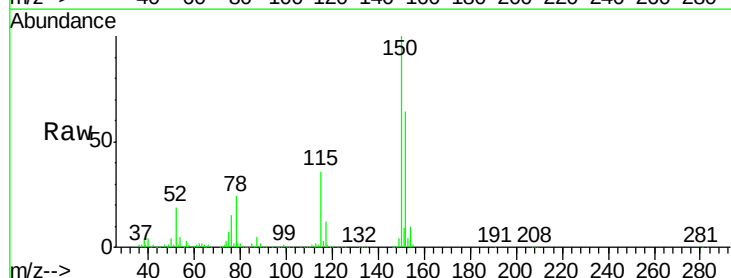


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

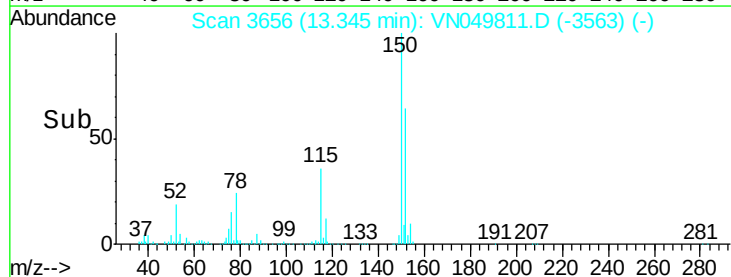
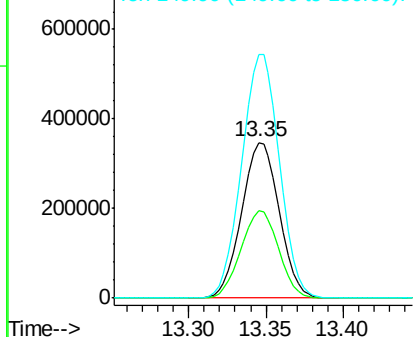


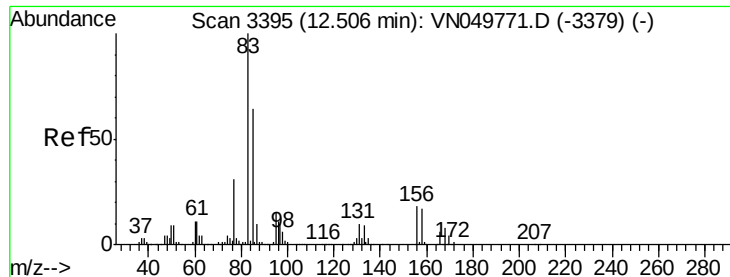
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN049811.D
Acq: 13 Jul 2018 21:20

Tgt Ion:152 Resp: 588122
Ion Ratio Lower Upper
152 100
115 56.2 28.1 84.2
150 156.9 0.0 347.6



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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049811.D

Acq: 13 Jul 2018 21:20

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#01

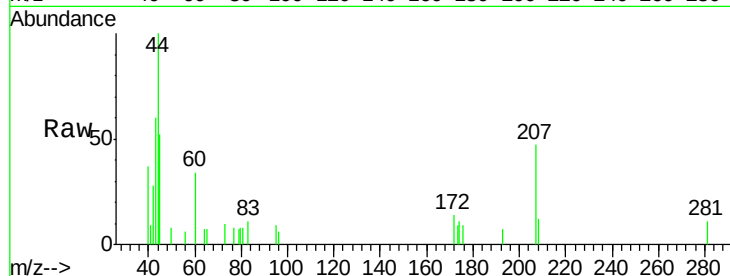
Tot Ion: 83 Resp: 264

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

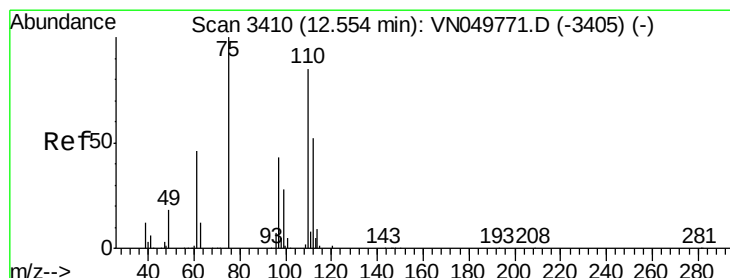
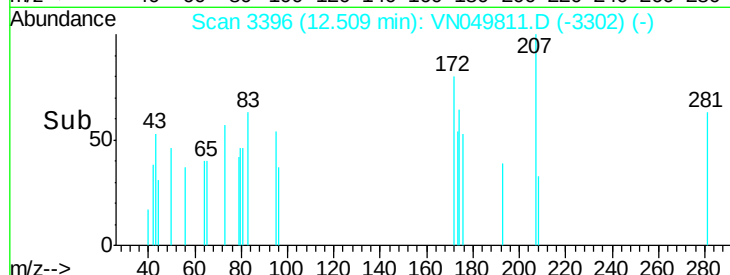
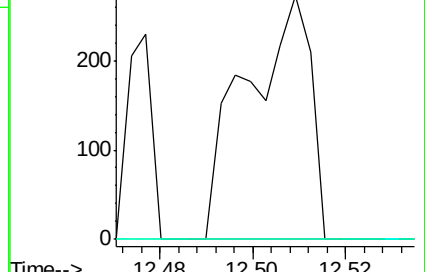
85 0.0 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VN049811.D (-3302) (-)

Ion 130.80 (130.50 to 131.50): VN049811.D (-3302) (-)

Ion 84.90 (84.60 to 85.60): VN049811.D (-3302) (-)



#76

1,2,3-Trichloropropane

Concen: 32.85 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049811.D

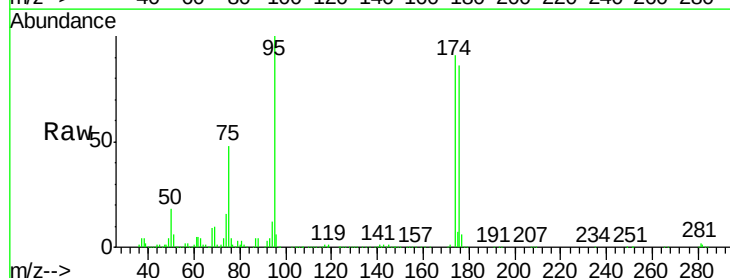
Acq: 13 Jul 2018 21:20

Tgt Ion: 75 Resp: 343235

Ion Ratio Lower Upper

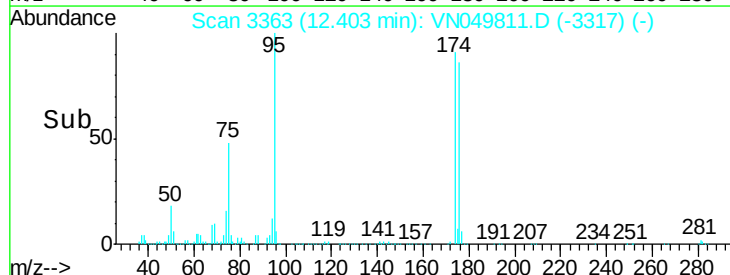
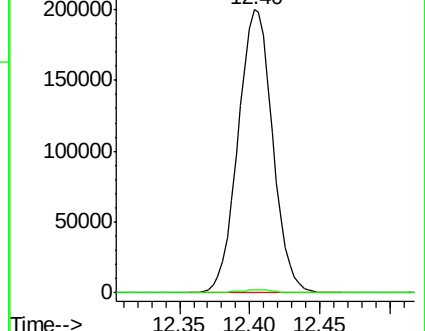
75 100

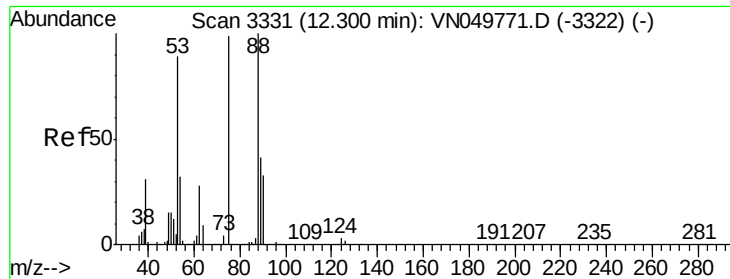
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN049811.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049811.D (-3317) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 106.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049811.D

Acq: 13 Jul 2018 21:20

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#01

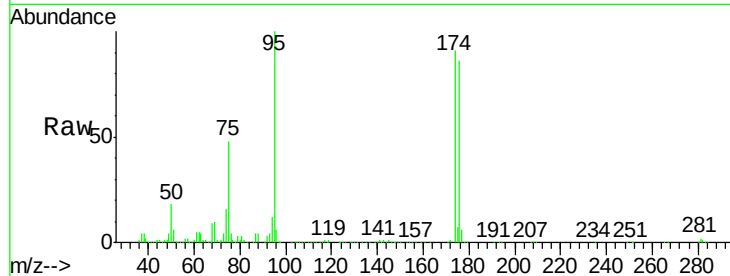
Tot Ion: 75 Resp: 343235

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

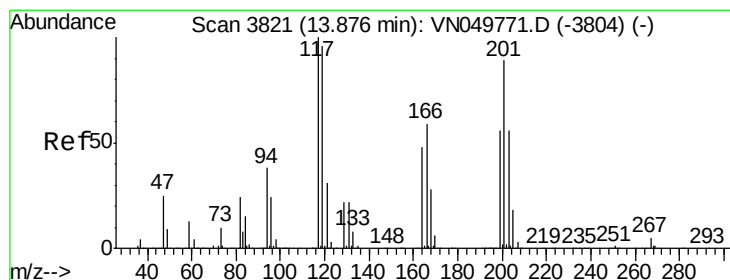
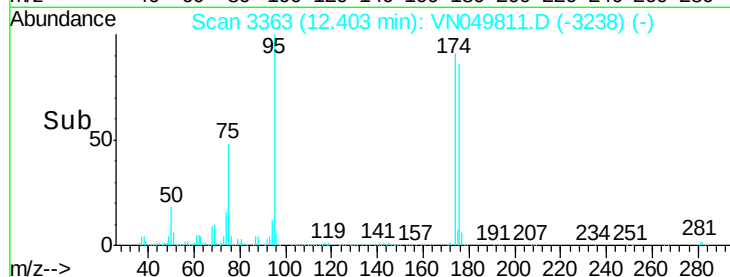
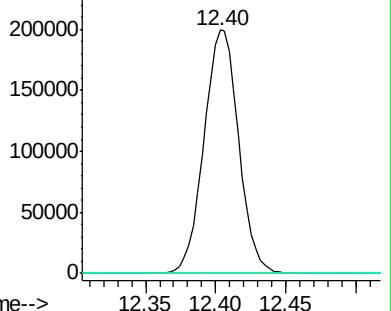
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN049811.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049811.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049811.D (-3363) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.79 min Scan# 3795

Delta R.T. -0.08 min

Lab File: VN049811.D

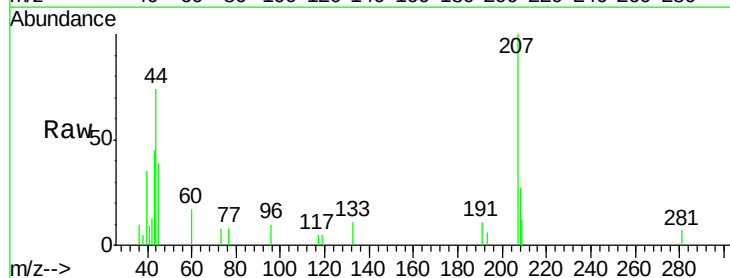
Acq: 13 Jul 2018 21:20

Tgt Ion: 117 Resp: 94

Ion Ratio Lower Upper

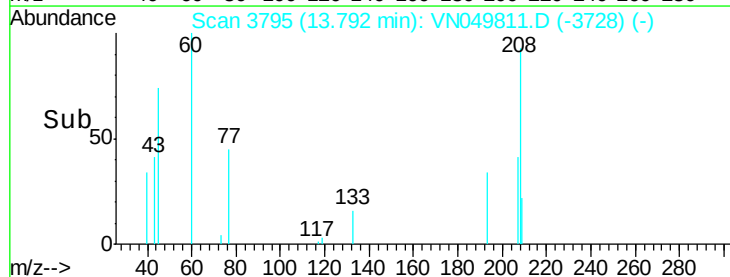
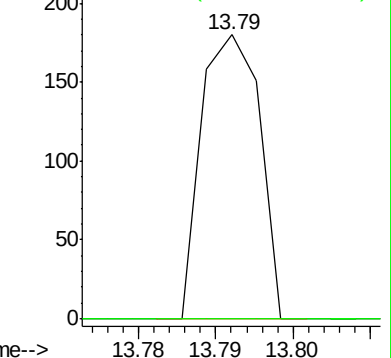
117 100

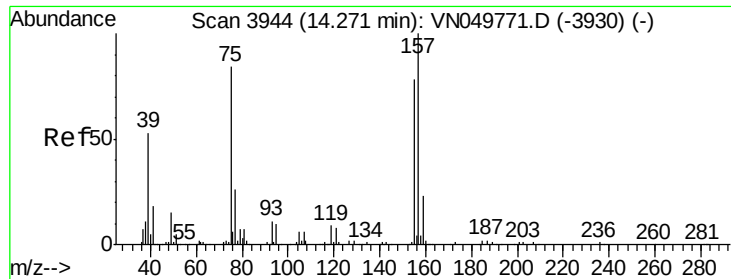
201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): VN049811.D (-3795) (-)

Ion 200.70 (200.40 to 201.40): VN049811.D (-3795) (-)

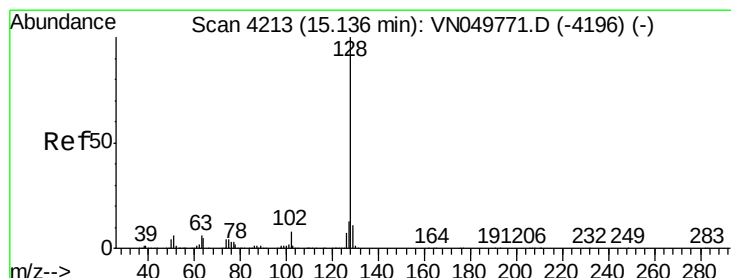
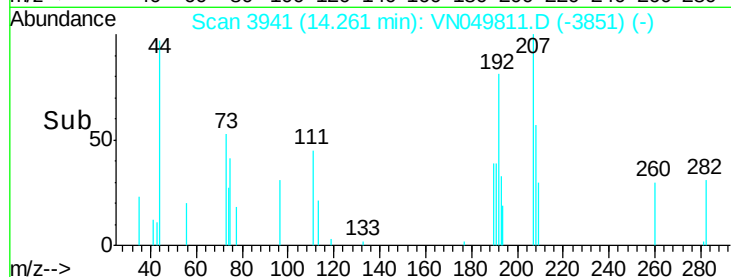
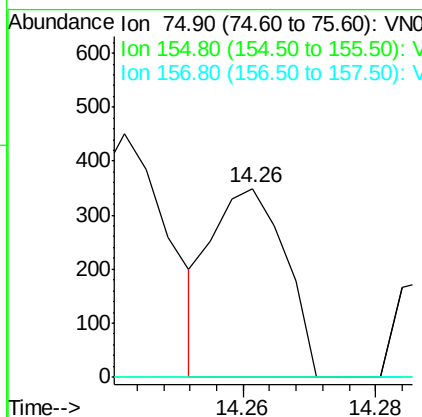
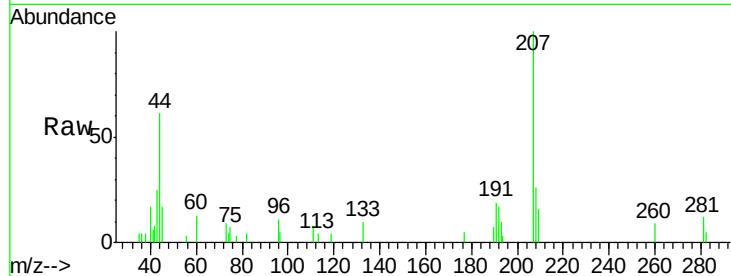




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3941
 Delta R.T. -0.01 min
 Lab File: VN049811.D
 Acq: 13 Jul 2018 21:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#01

Tot Ion: 75 Resp: 268
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.7 137.1#
 157 0.0 56.9 170.7#



#95
 Naphthalene
 Concen: 4.04 ug/l
 RT: 15.14 min Scan# 4215
 Delta R.T. 0.01 min
 Lab File: VN049811.D
 Acq: 13 Jul 2018 21:20

Tgt Ion: 128 Resp: 330
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.6 13.0#

