

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021720\
 Data File : VN060116.D
 Acq On : 17 Feb 2020 13:59
 Operator : JC/MD
 Sample : PB126834ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 17 14:31:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	190001	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	305071	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	287469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	129160	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	120026	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
35) Dibromofluoromethane	7.57	113	92498	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	10.08	98	374460	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
62) 4-Bromofluorobenzene	12.40	95	137996	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	

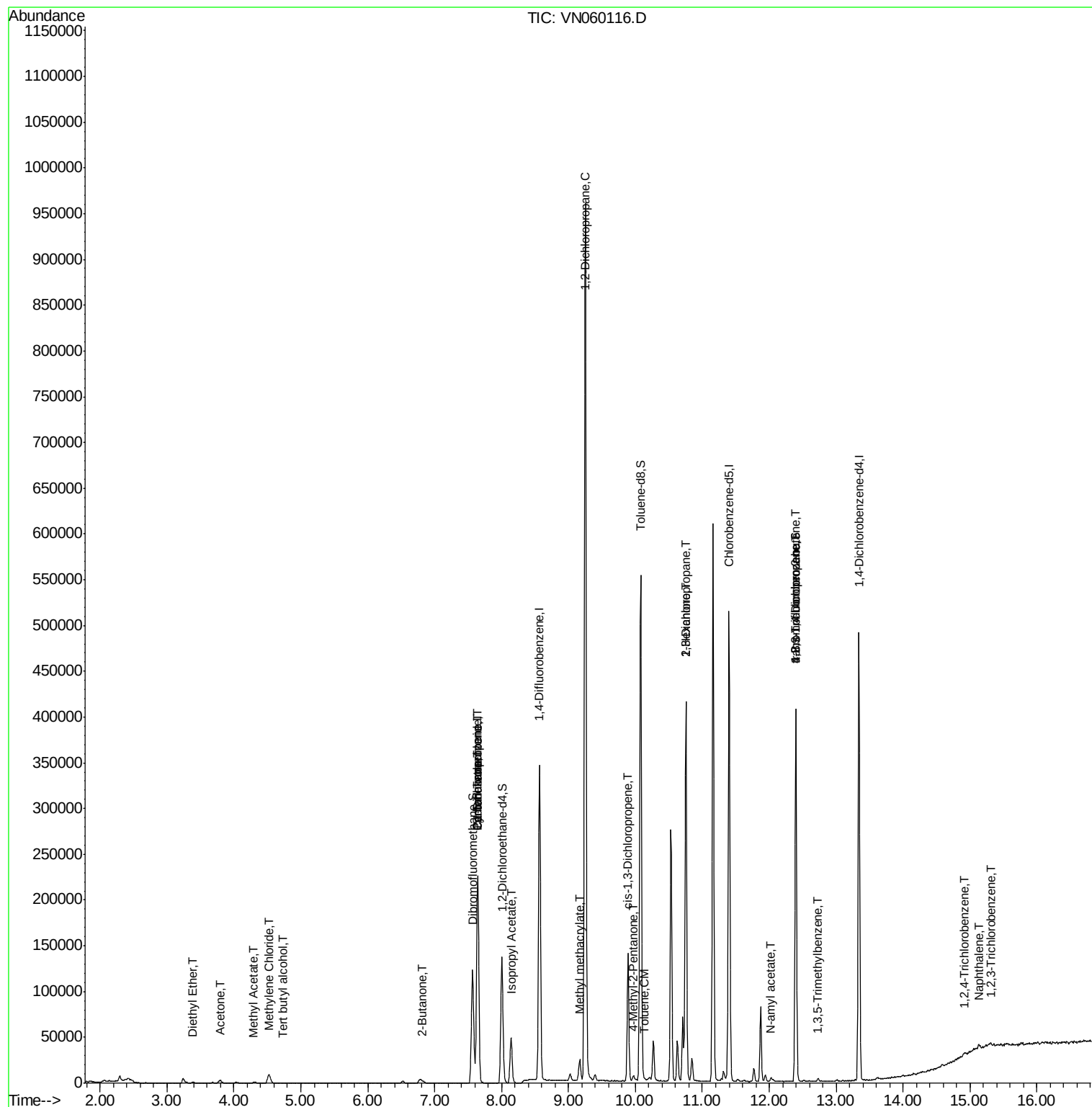
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	422	0.382	ug/l #	2
11) Tert butyl alcohol	4.73	59	938	2.711	ug/l #	72
16) Acetone	3.79	43	5714	5.666	ug/l	96
18) Methyl Acetate	4.30	43	1788	0.944	ug/l #	53
20) Methylene Chloride	4.53	84	7234	3.595	ug/l	92
25) 2-Butanone	6.82	43	4313	3.401	ug/l	90
31) Cyclohexane	7.64	56	4133	1.264	ug/l #	24
36) 1,1-Dichloropropene	7.64	75	14724	5.211	ug/l #	48
38) Carbon Tetrachloride	7.64	117	18188	5.927	ug/l #	15
43) Isopropyl Acetate	8.14	43	58493	13.399	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	1065	0.513	ug/l #	43
48) Methyl methacrylate	9.16	41	3823	1.952	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	4383	1.735	ug/l	89
52) Toluene	10.14	92	1141	0.212	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	25376	7.161	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4077	1.178	ug/l #	43
59) 2-Hexanone	10.75	43	62046	31.788	ug/l #	53
74) N-amyl acetate	12.02	43	4104	1.180	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	71573	28.964	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2259	0.282	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	71573	70.918	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.25	75	91	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	912	0.374	ug/l	87
95) Naphthalene	15.13	128	3796	0.577	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.31	180	1136	0.468	ug/l	88

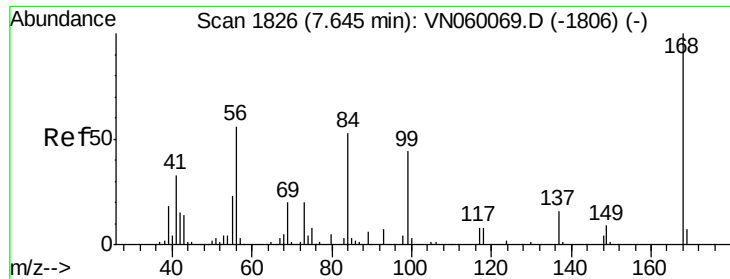
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060116.D

Acq: 17 Feb 2020 13:59

Instrument :

MSVOA_N

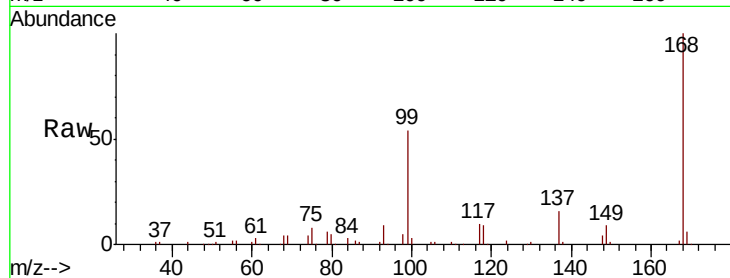
ClientSampled :

Tot Ion:168 Resp: 190001

Ion Ratio Lower Upper

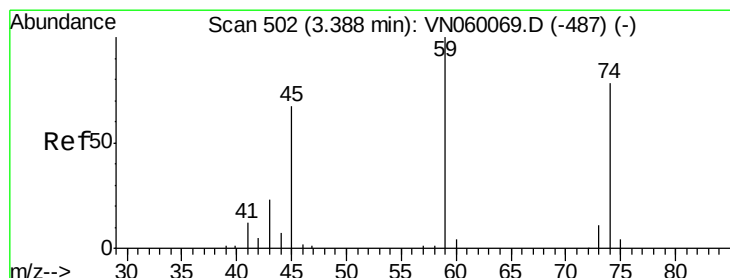
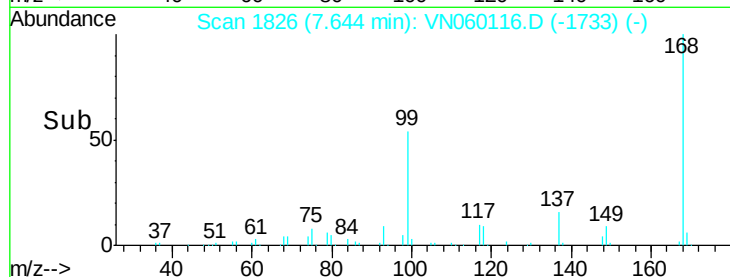
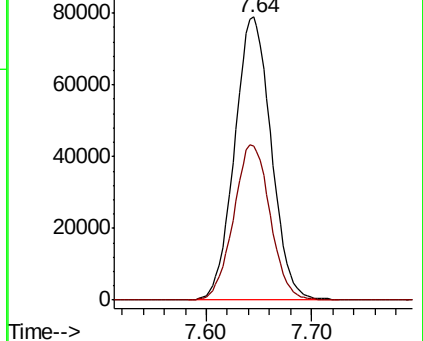
168 100

99 54.3 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#8

Diethyl Ether

Concen: 0.382 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN060116.D

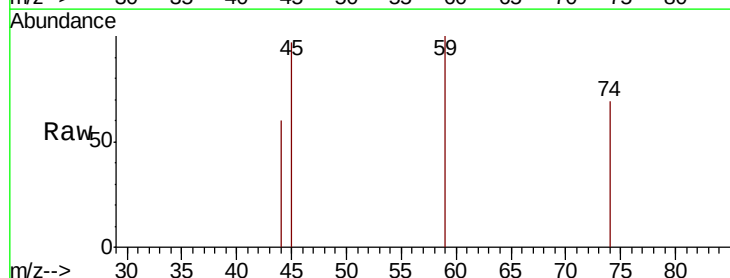
Acq: 17 Feb 2020 13:59

Tgt Ion: 74 Resp: 422

Ion Ratio Lower Upper

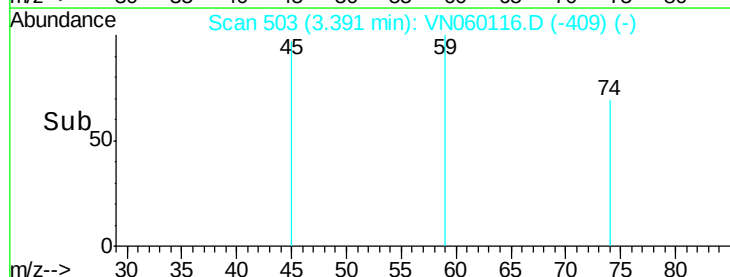
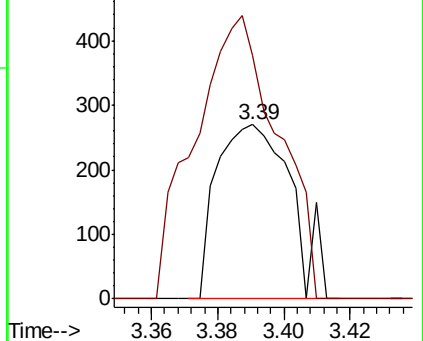
74 100

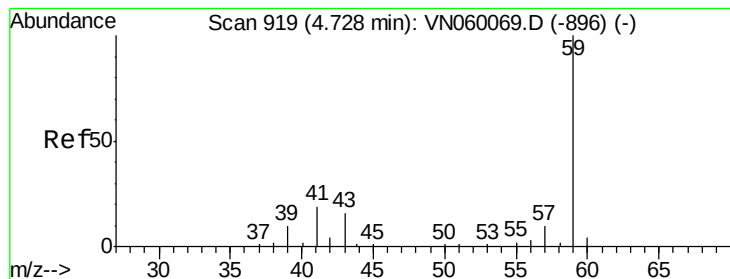
45 181.3 44.7 134.1#



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



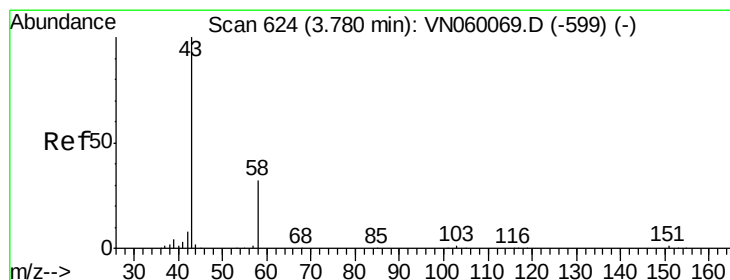
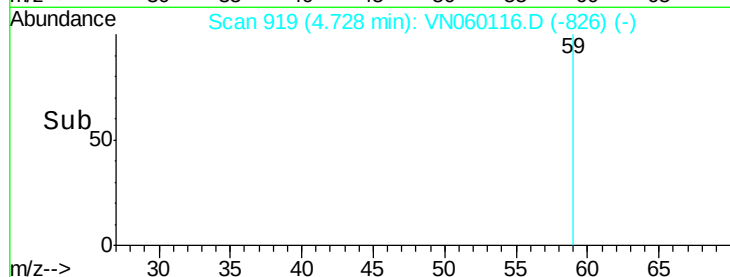
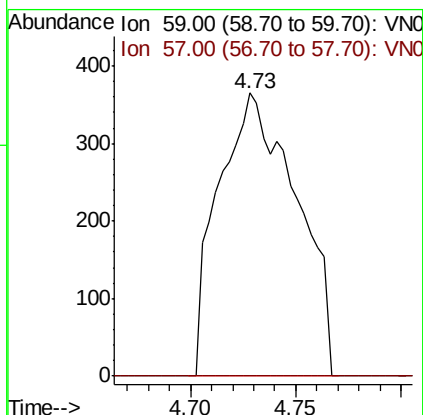
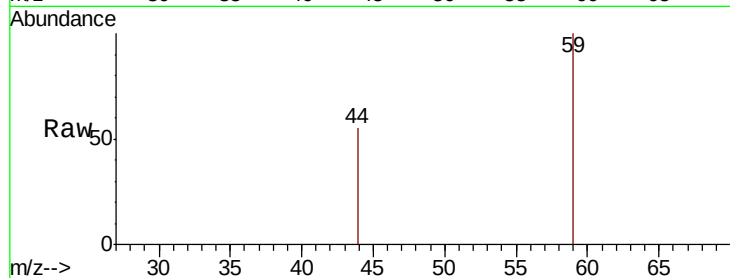


#11

Tert butyl alcohol
 Concen: 2.711 ug/l
 RT: 4.73 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

Instrument :
 MSVOA_N
 ClientSampleId :

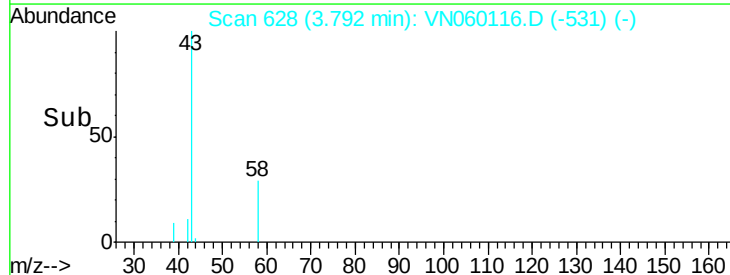
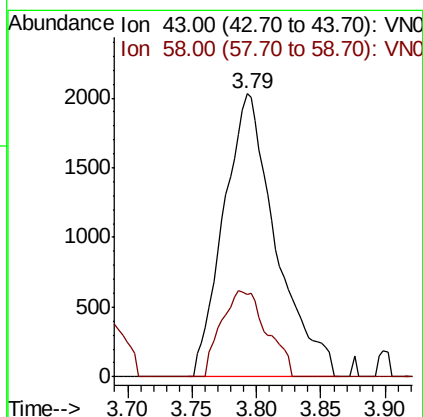
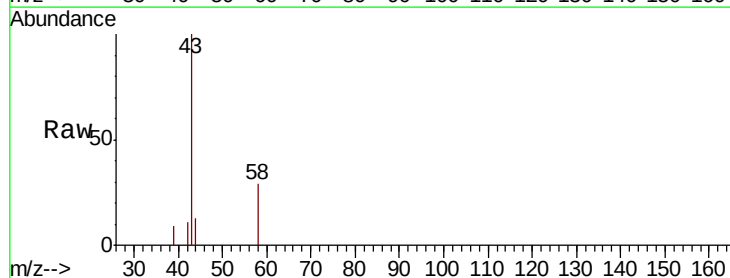
Tot Ion: 59 Resp: 938
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

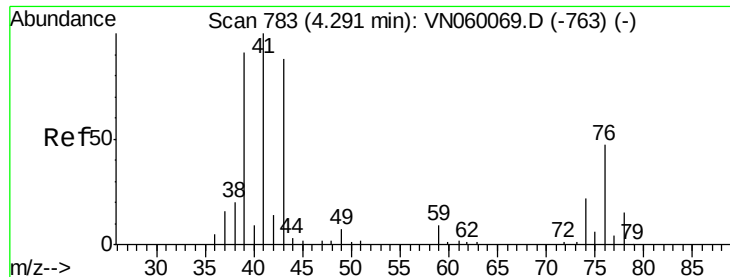


#16

Acetone
 Concen: 5.666 ug/l
 RT: 3.79 min Scan# 628
 Delta R.T. 0.01 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

Tgt Ion: 43 Resp: 5714
 Ion Ratio Lower Upper
 43 100
 58 29.3 25.2 37.8

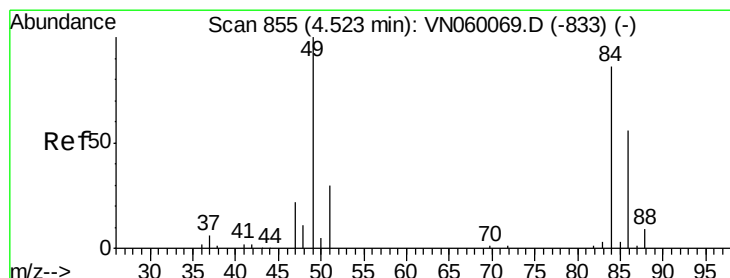
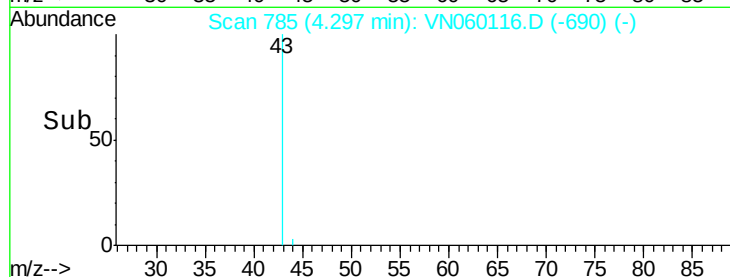
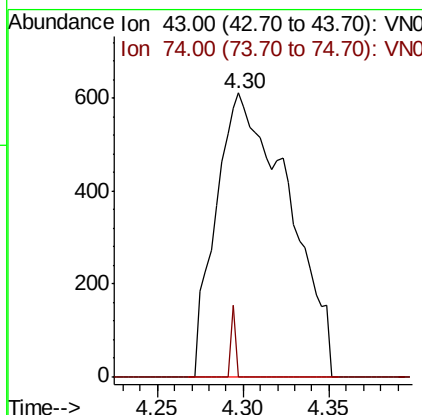
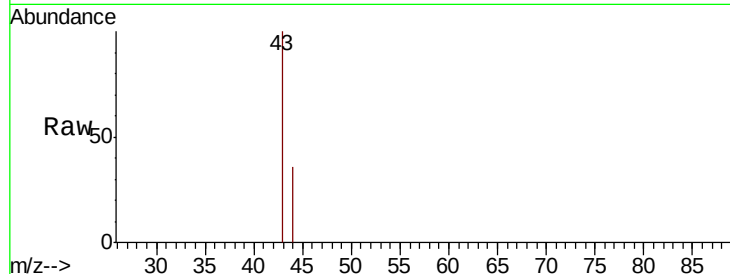




#18
Methyl Acetate
Concen: 0.944 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

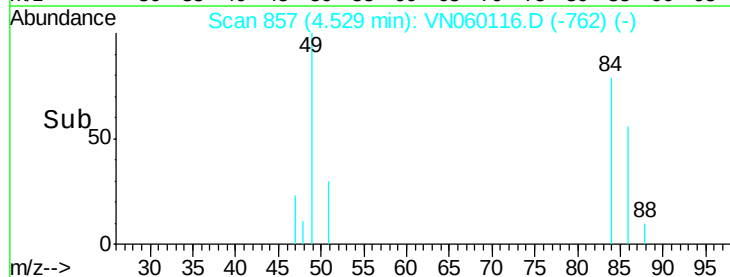
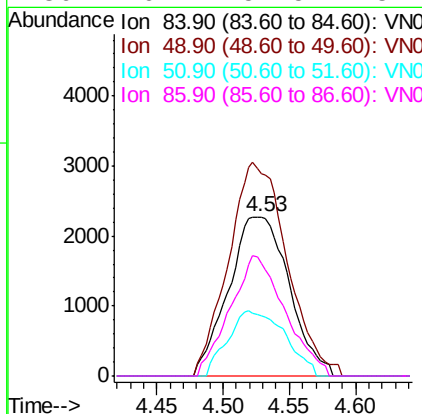
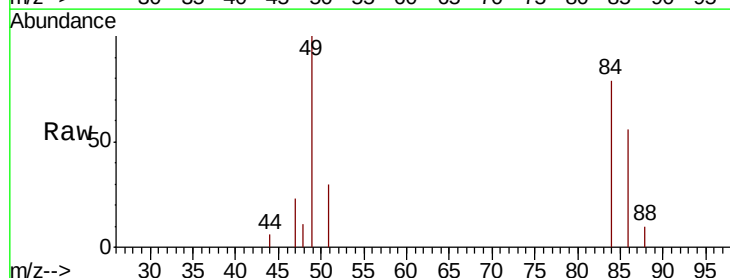
Instrument :
MSVOA_N
ClientSampled :

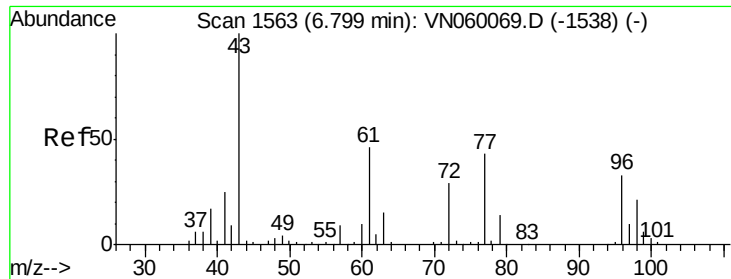
Tot Ion: 43 Resp: 1788
Ion Ratio Lower Upper
43 100
74 1.6 20.3 30.5#



#20
Methylene Chloride
Concen: 3.595 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

Tgt Ion: 84 Resp: 7234
Ion Ratio Lower Upper
84 100
49 127.1 93.4 140.0
51 38.1 28.4 42.6
86 70.7 52.5 78.7





#25

2-Butanone

Concen: 3.401 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.02 min

Lab File: VN060116.D

Acq: 17 Feb 2020 13:59

Instrument :

MSVOA_N

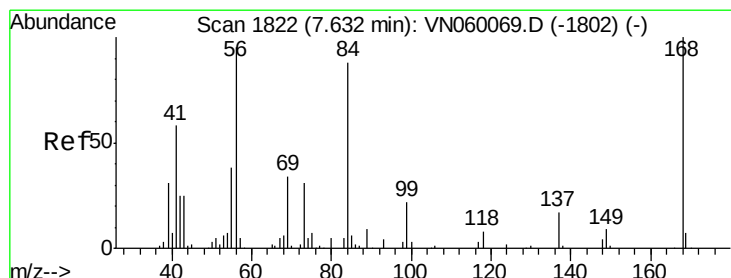
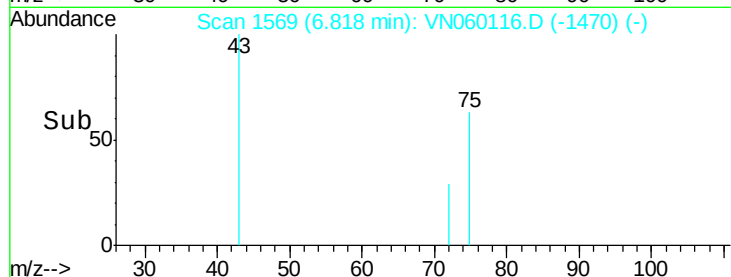
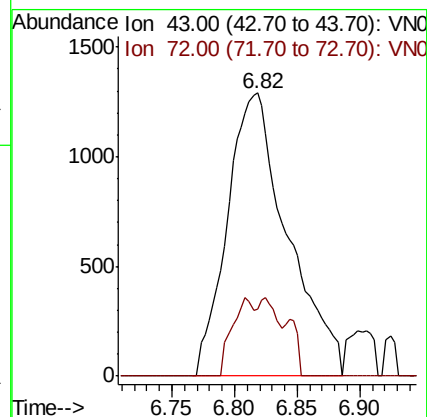
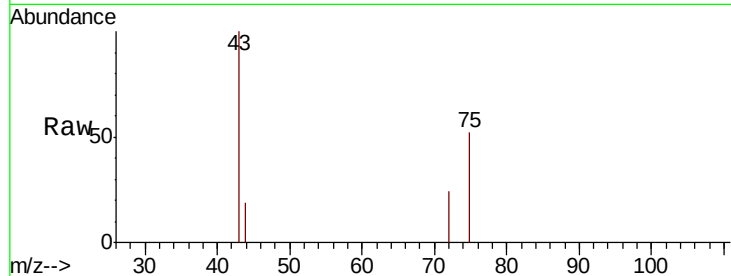
ClientSampled :

Tot Ion: 43 Resp: 4313

Ion Ratio Lower Upper

43 100

72 23.8 23.3 34.9



#31

Cyclohexane

Concen: 1.264 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060116.D

Acq: 17 Feb 2020 13:59

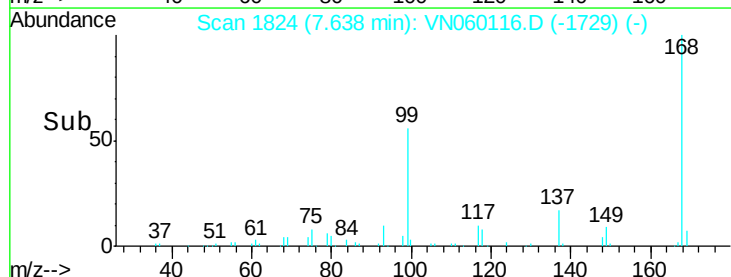
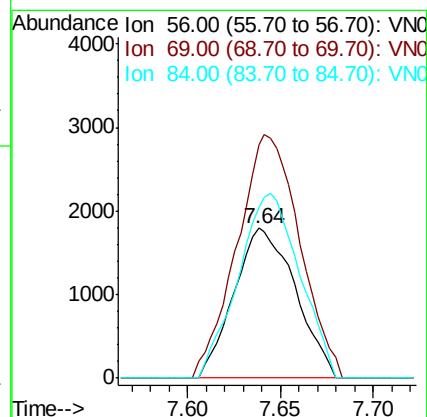
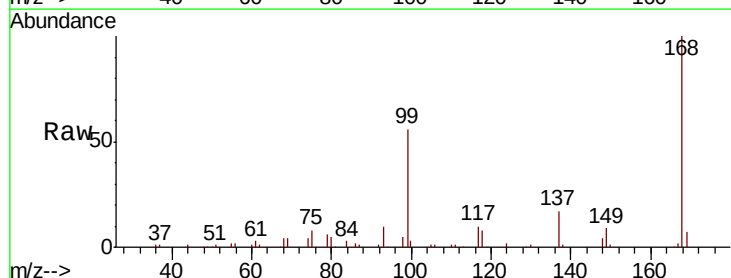
Tgt Ion: 56 Resp: 4133

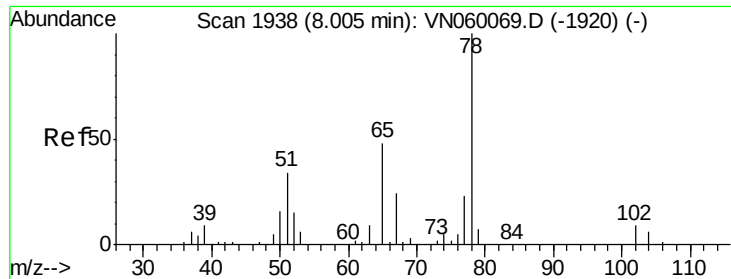
Ion Ratio Lower Upper

56 100

69 155.7 28.3 42.5#

84 114.0 72.6 108.8#

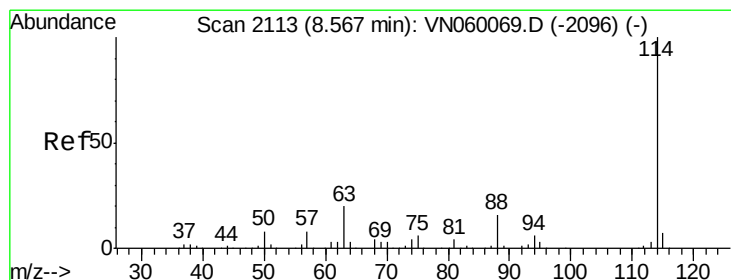
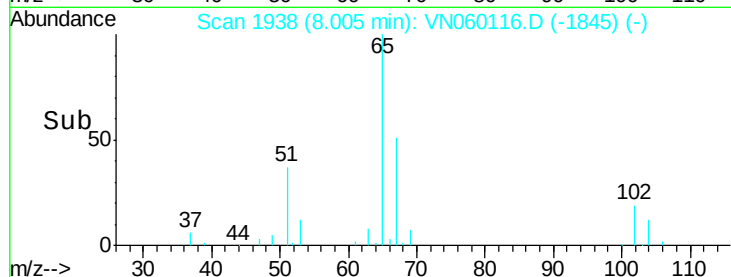
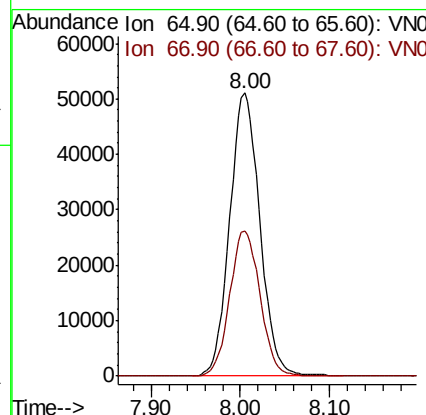
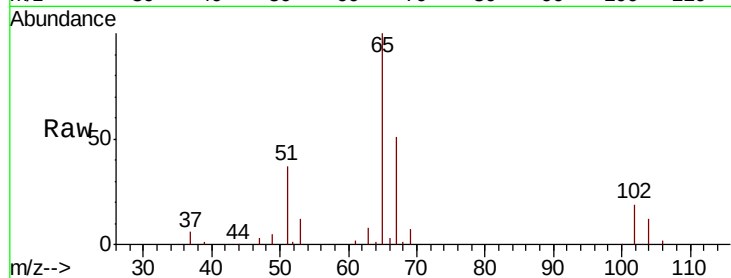




#33
 1,2-Dichloroethane-d4
 Concen: 51.915 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

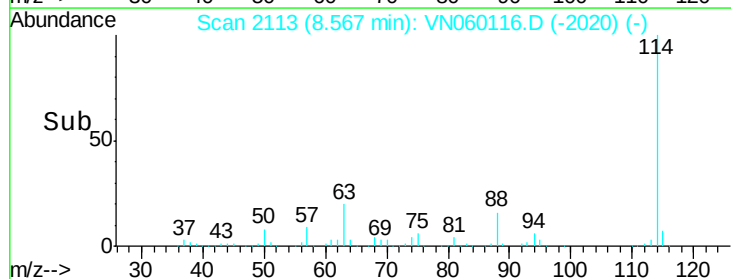
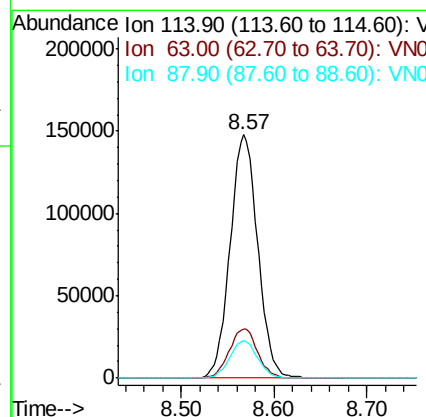
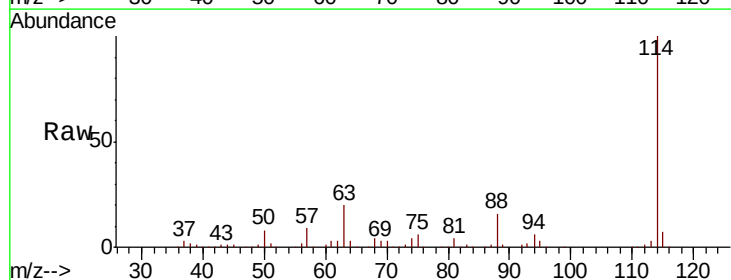
Instrument :
 MSVOA_N
 ClientSampled :

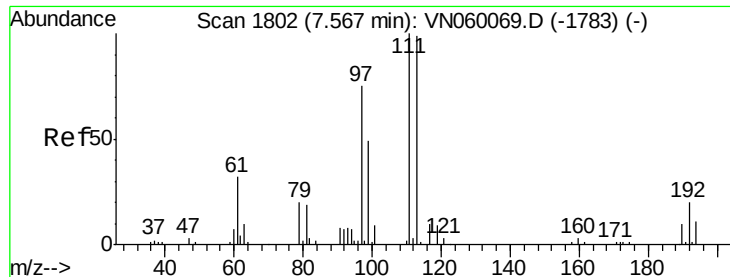
Tot Ion: 65 Resp: 120026
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

Tgt Ion: 114 Resp: 305071
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.0
 88 15.6 0.0 31.6

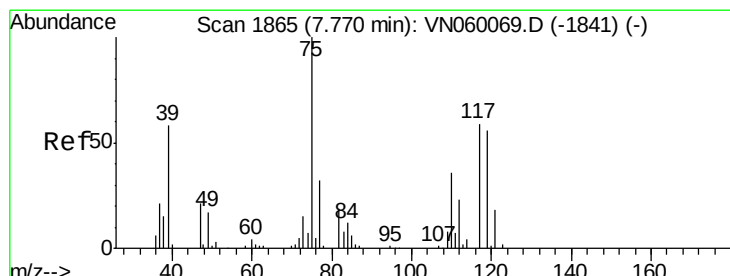
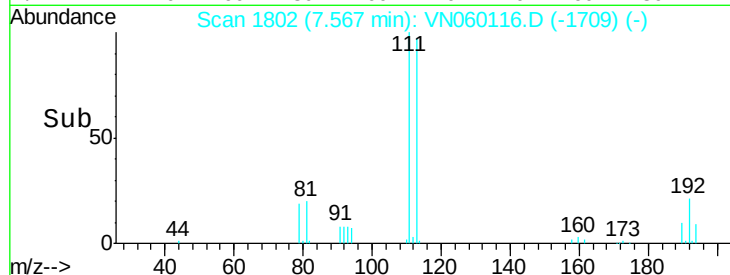
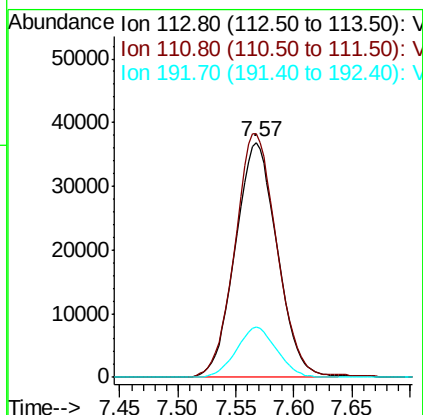
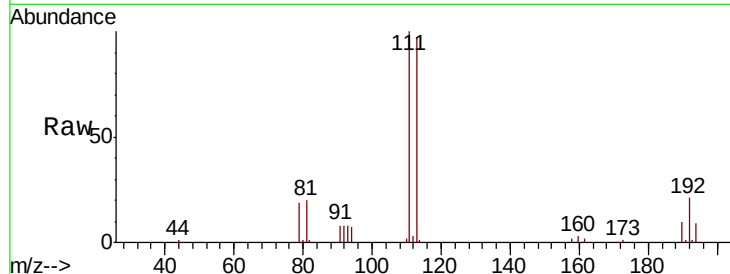




#35
 Dibromofluoromethane
 Concen: 49.325 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

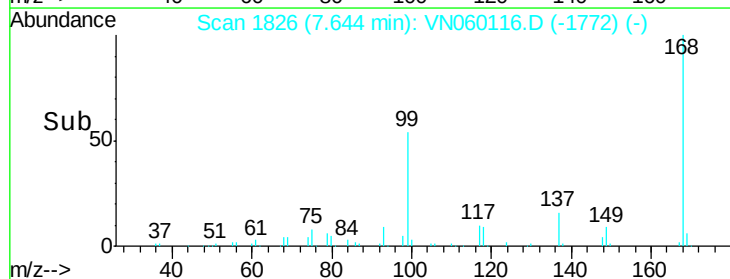
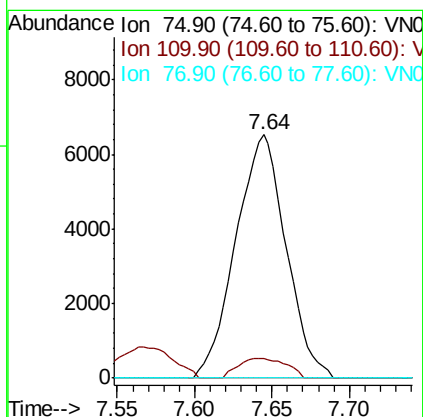
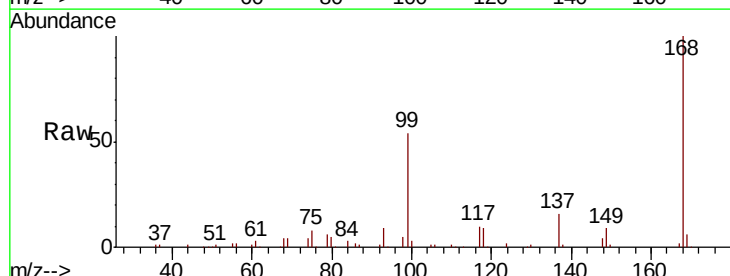
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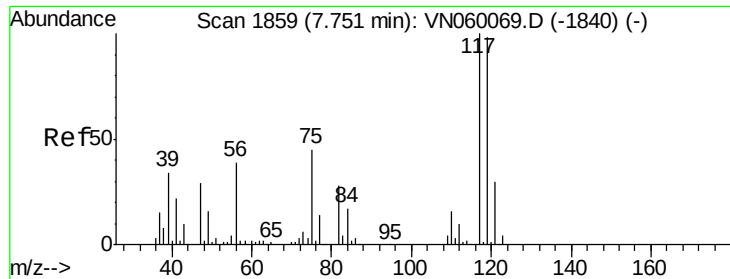
Tot Ion:113 Resp: 92498
 Ion Ratio Lower Upper
 113 100
 111 104.4 81.4 122.2
 192 20.4 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.211 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

Tgt Ion: 75 Resp: 14724
 Ion Ratio Lower Upper
 75 100
 110 7.7 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.927 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060116.D

Acq: 17 Feb 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

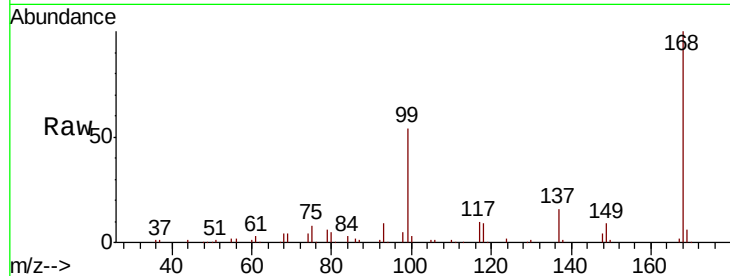
Tot Ion:117 Resp: 18188

Ion Ratio Lower Upper

117 100

119 4.4 78.2 117.4#

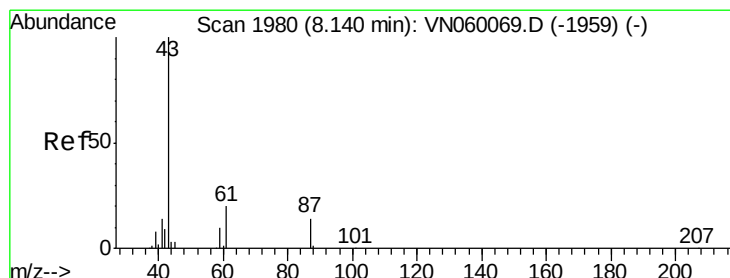
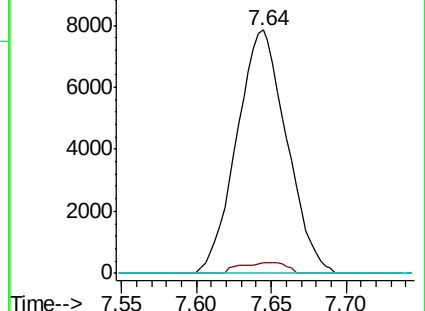
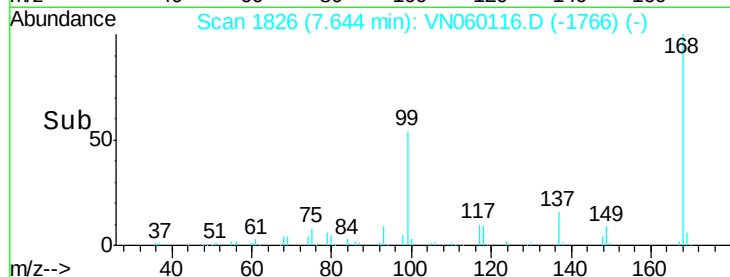
121 0.0 24.2 36.2#



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: 13.399 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060116.D

Acq: 17 Feb 2020 13:59

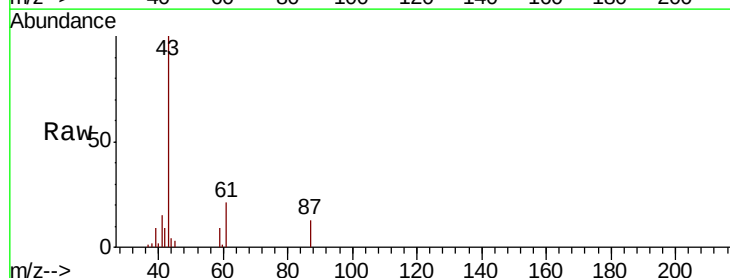
Tgt Ion: 43 Resp: 58493

Ion Ratio Lower Upper

43 100

61 19.7 21.8 32.6#

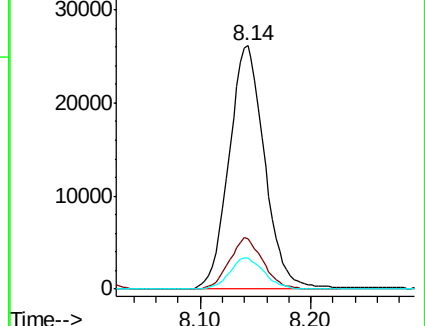
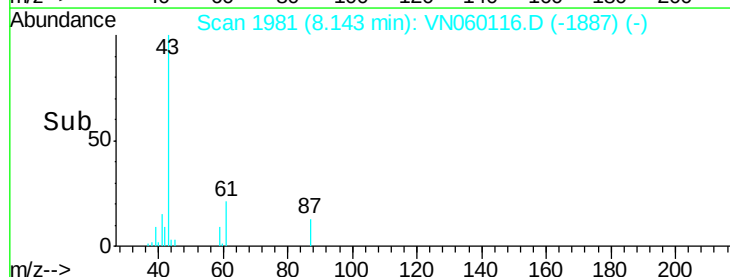
87 12.3 11.4 17.2

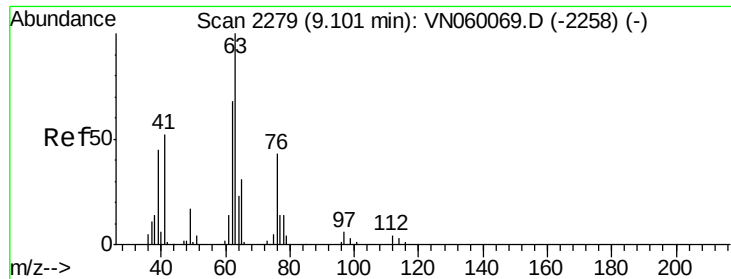


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

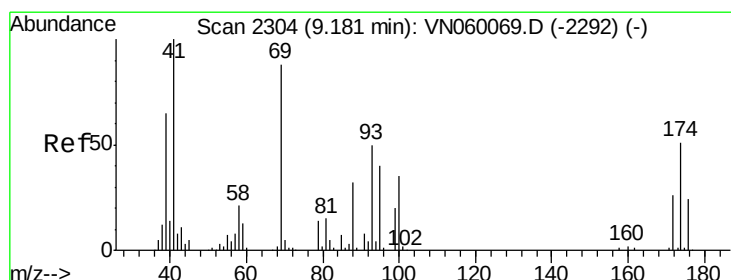
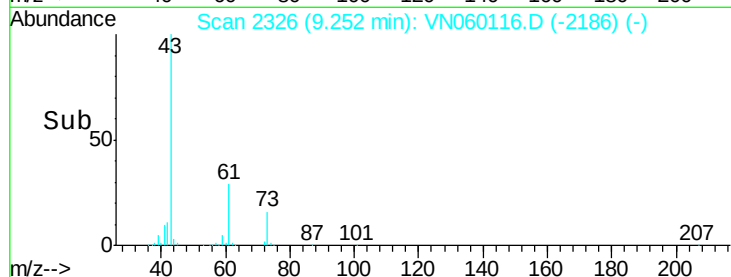
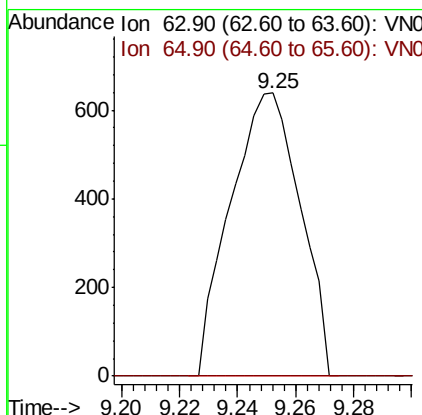
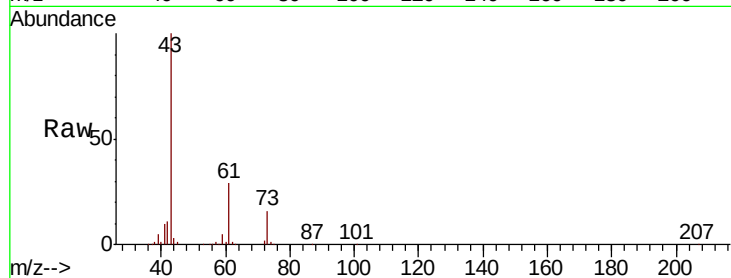




#45
 1,2-Dichloropropane
 Concen: 0.513 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

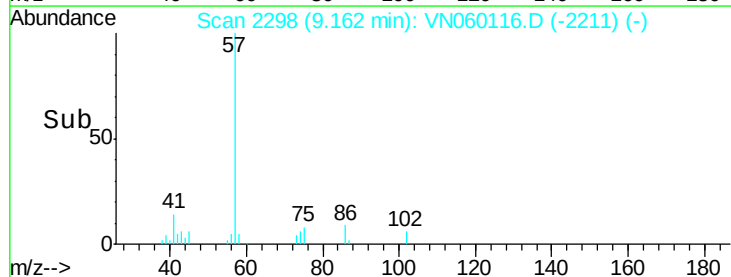
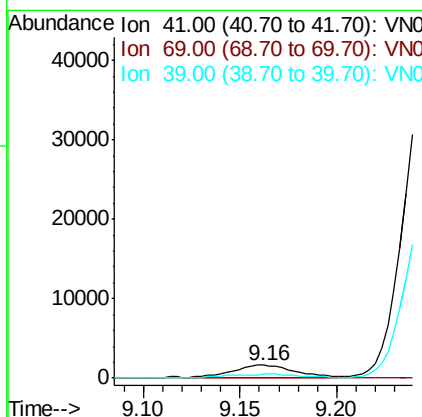
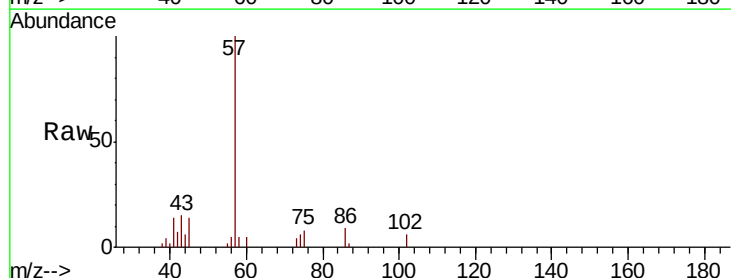
Instrument :
 MSVOA_N
 ClientSampleId :

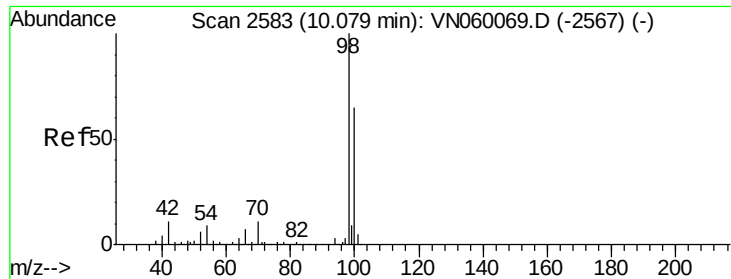
Tot Ion: 63 Resp: 1065
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.952 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

Tgt Ion: 41 Resp: 3823
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.0 108.0#
 39 0.0 54.1 81.1#

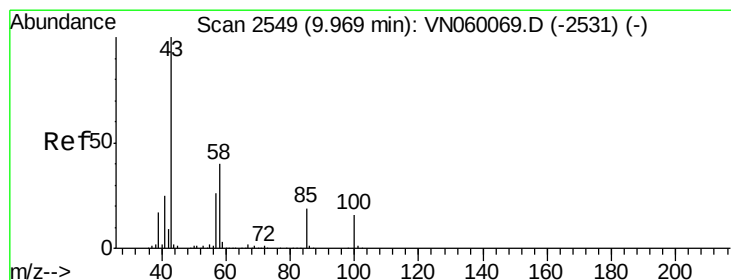
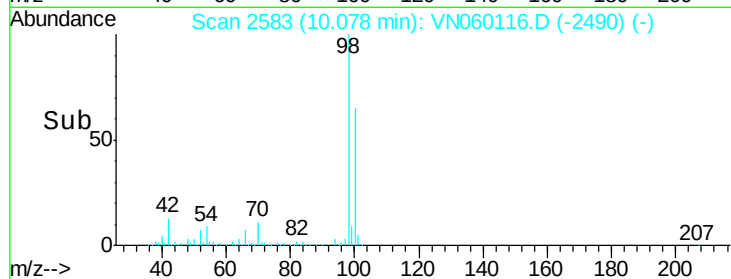
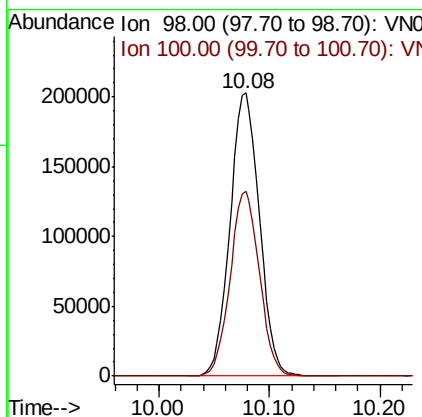
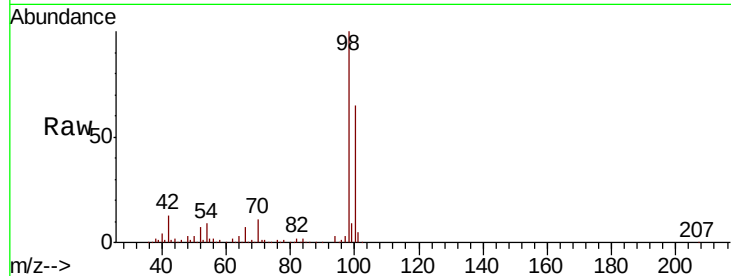




#50
Toluene-d8
Concen: 50.707 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

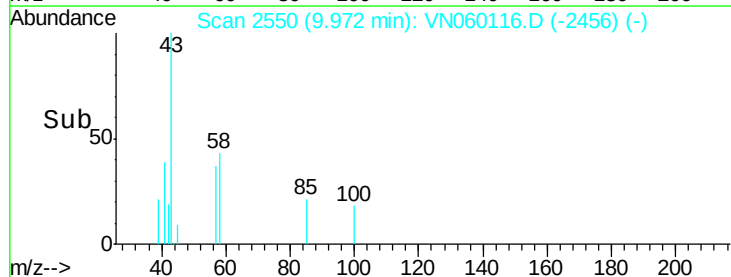
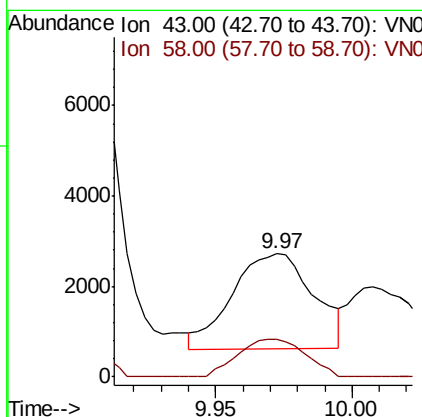
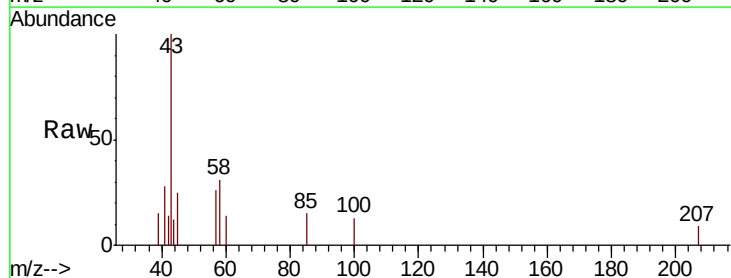
Instrument :
MSVOA_N
ClientSampleId :

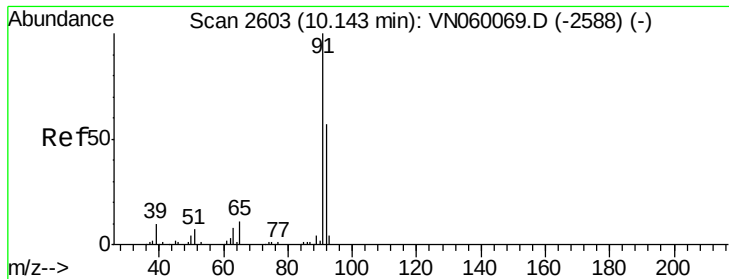
Tot Ion: 98 Resp: 374460
Ion Ratio Lower Upper
98 100
100 64.9 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.735 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

Tgt Ion: 43 Resp: 4383
Ion Ratio Lower Upper
43 100
58 32.9 31.8 47.8





#52

Toluene

Concen: 0.212 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060116.D

Acq: 17 Feb 2020 13:59

Instrument :

MSVOA_N

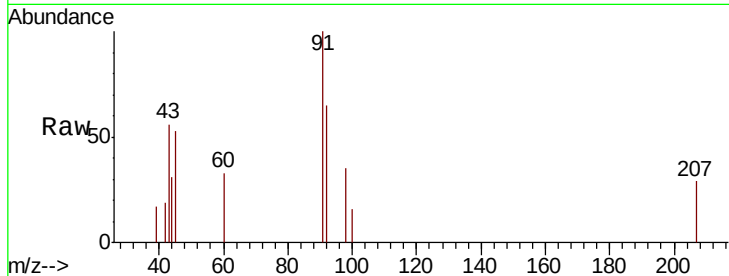
ClientSampled :

Tot Ion: 92 Resp: 1141

Ion Ratio Lower Upper

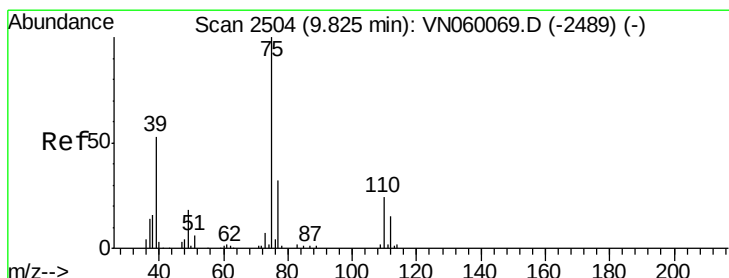
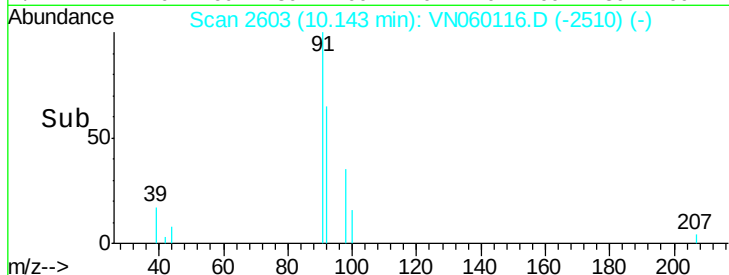
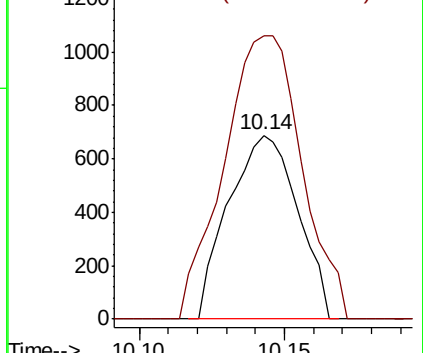
92 100

91 173.4 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN060116.D (-2510) (-)

Ion 91.00 (90.70 to 91.70): VN060116.D (-2510) (-)



#54

cis-1,3-Dichloropropene

Concen: 7.161 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060116.D

Acq: 17 Feb 2020 13:59

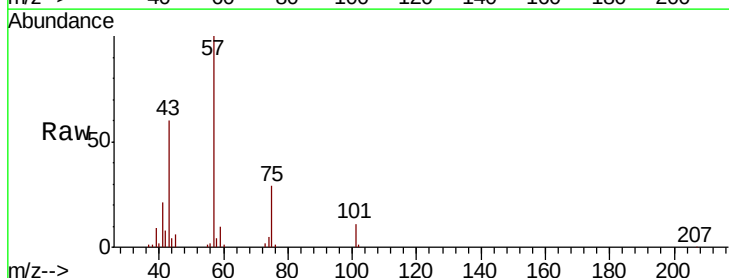
Tgt Ion: 75 Resp: 25376

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

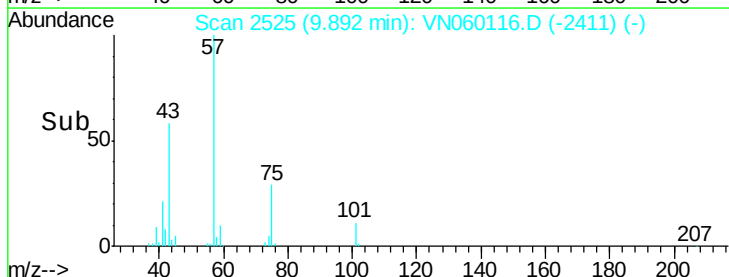
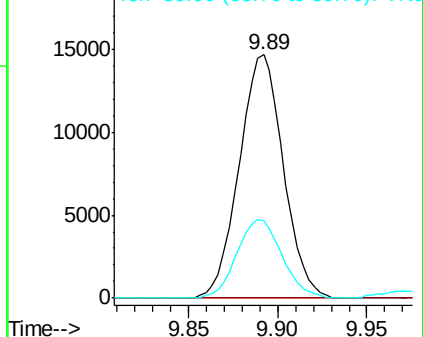
39 31.6 42.2 63.4#

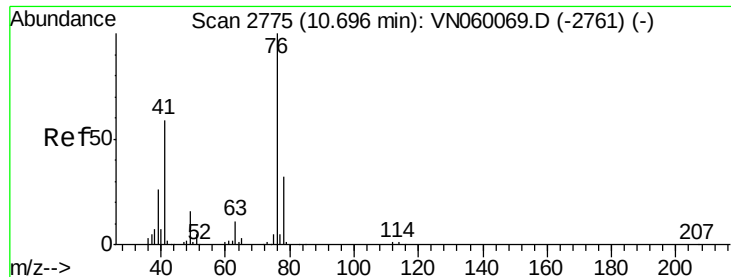


Abundance Ion 74.90 (74.60 to 75.60): VN060116.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060116.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060116.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 1.178 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060116.D

Acq: 17 Feb 2020 13:59

Instrument :

MSVOA_N

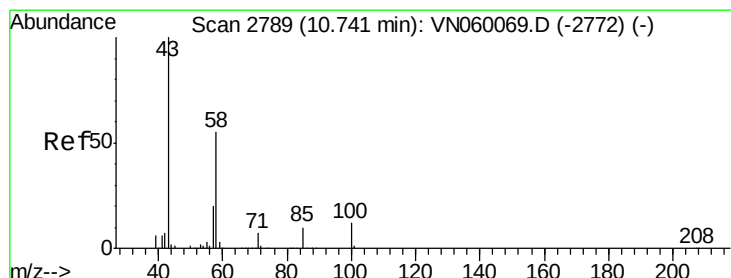
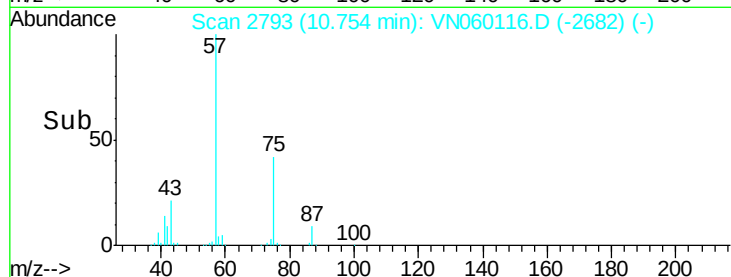
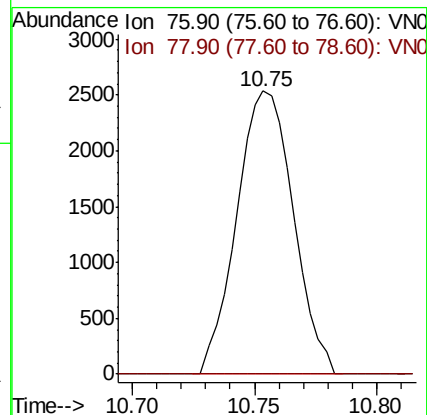
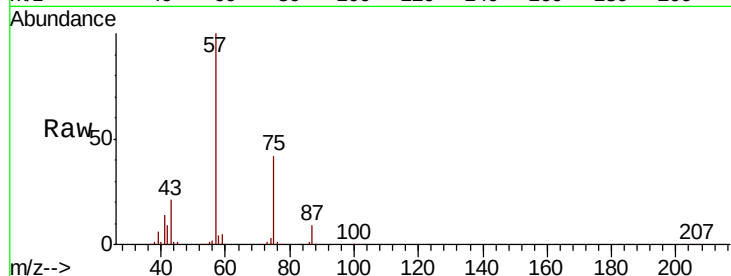
ClientSampleId :

Tot Ion: 76 Resp: 4077

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



#59

2-Hexanone

Concen: 31.788 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060116.D

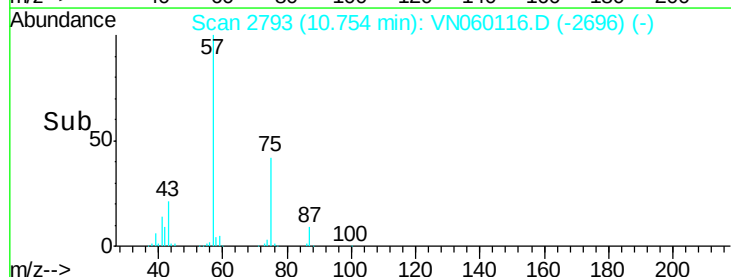
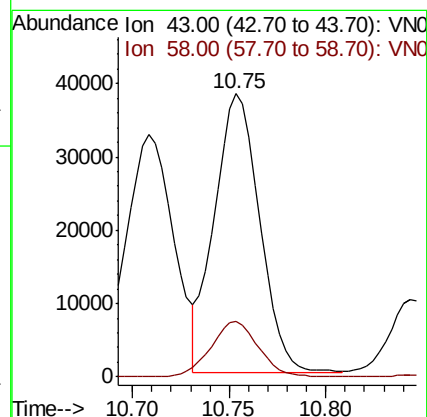
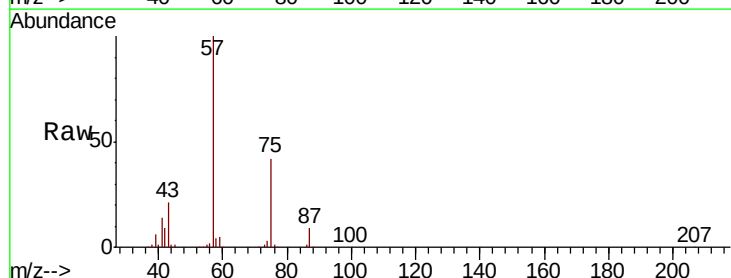
Acq: 17 Feb 2020 13:59

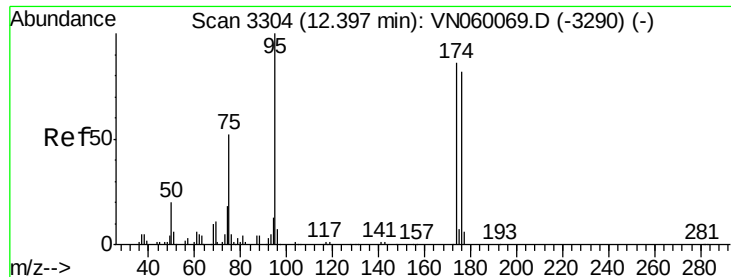
Tgt Ion: 43 Resp: 62046

Ion Ratio Lower Upper

43 100

58 20.8 27.5 82.4#

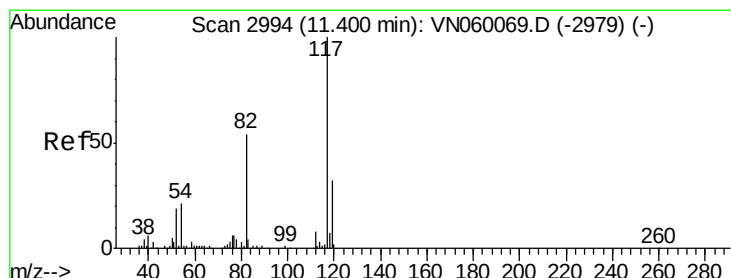
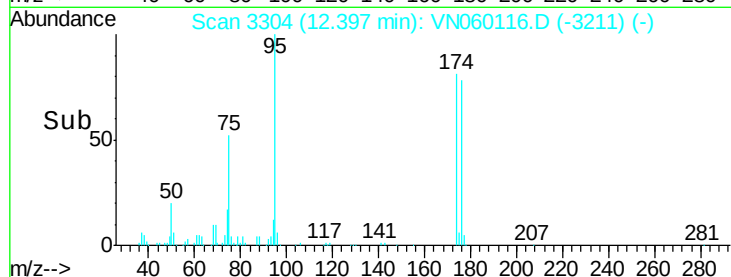
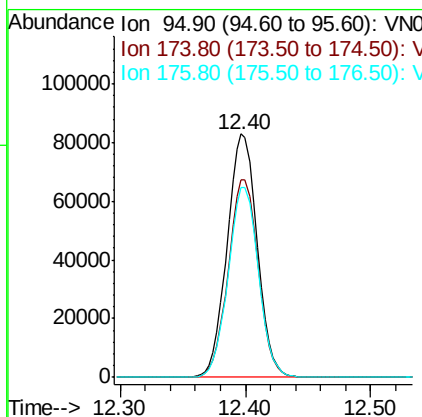
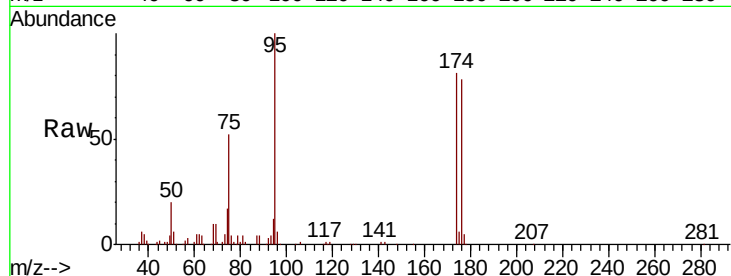




#62
4-Bromofluorobenzene
Concen: 50.854 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

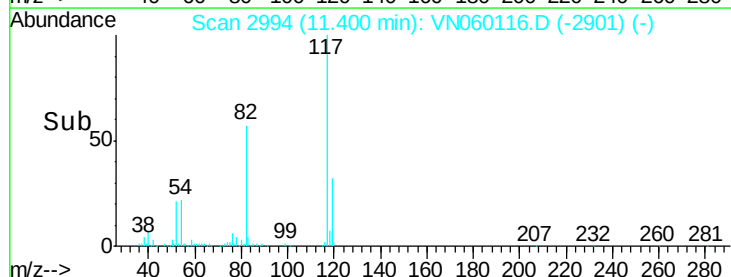
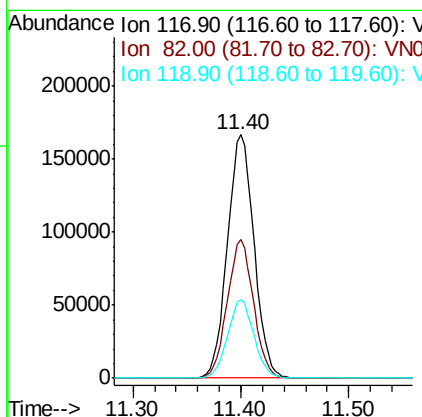
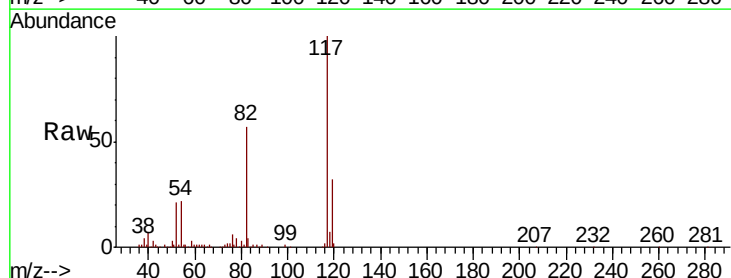
Instrument :
MSVOA_N
ClientSampled :

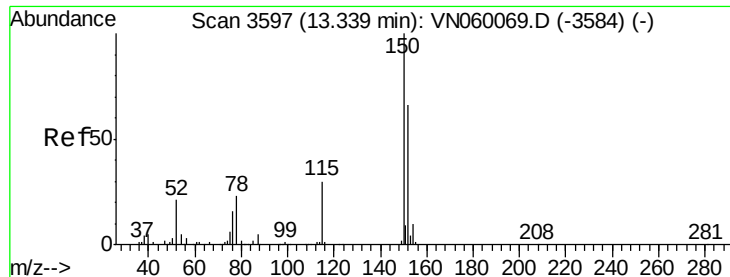
Tot Ion: 95 Resp: 137996
Ion Ratio Lower Upper
95 100
174 81.1 0.0 169.8
176 78.5 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

Tgt Ion: 117 Resp: 287469
Ion Ratio Lower Upper
117 100
82 56.7 43.4 65.0
119 32.1 25.8 38.6



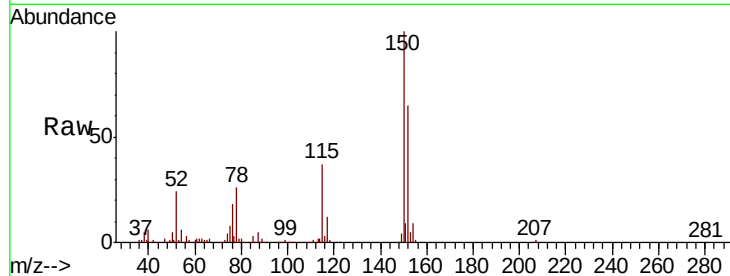


#72

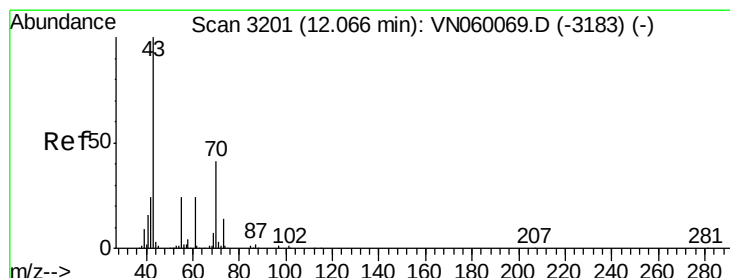
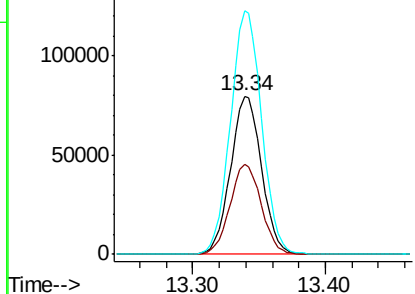
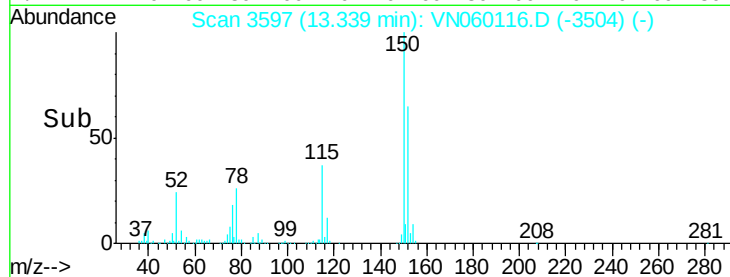
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.9	86.8
150	154.9	0.0	342.4



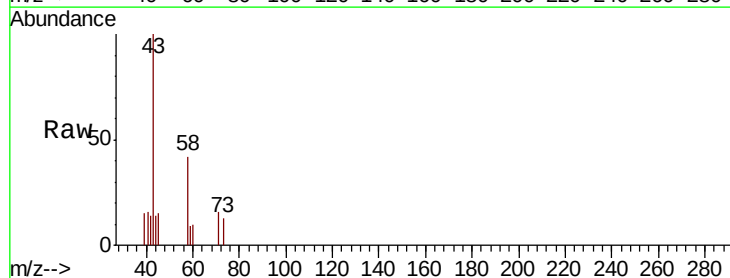
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



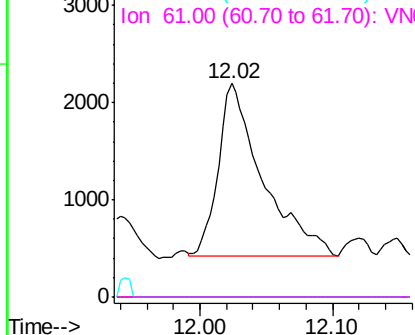
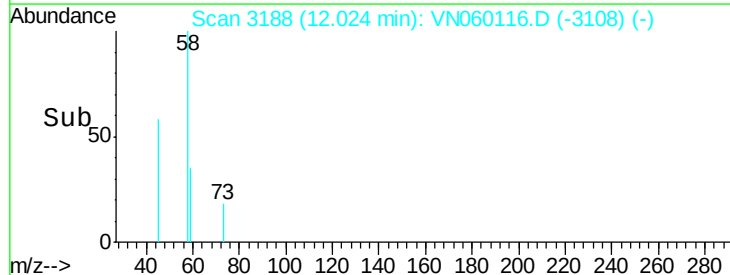
#74

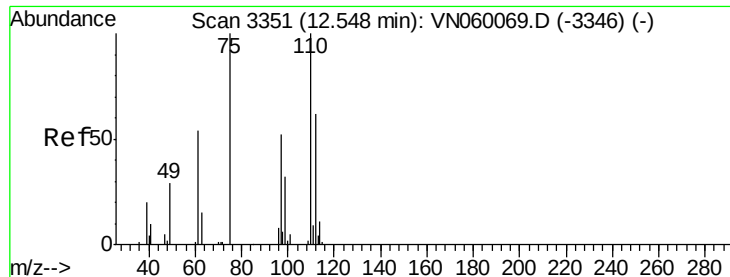
N-ethyl acetate
Concen: 1.180 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.4	50.0#
55	0.0	18.8	28.2#
61	0.0	19.2	28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 70.00 (69.70 to 70.70): VN
Ion 55.00 (54.70 to 55.70): VN
Ion 61.00 (60.70 to 61.70): VN





#76

1,2,3-Trichloropropane

Concen: 28.964 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060116.D

Acq: 17 Feb 2020 13:59

Instrument :

MSVOA_N

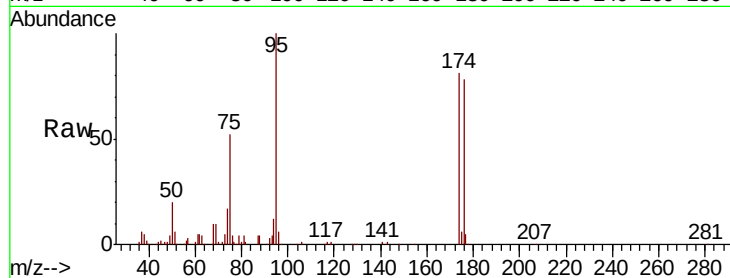
ClientSampleId :

Tot Ion: 75 Resp: 71573

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#

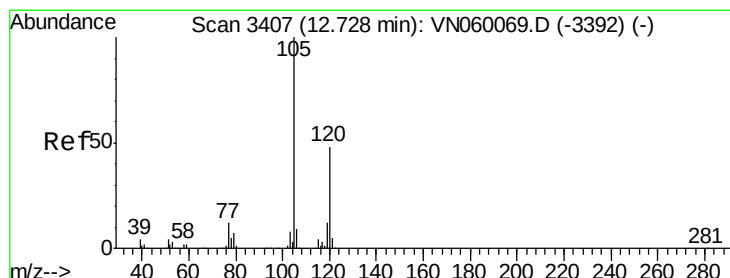
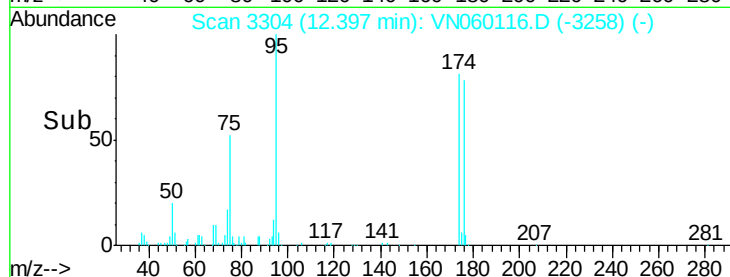


Abundance Ion 74.90 (74.60 to 75.60): VN060116.D (-3258) (-)

Ion 77.00 (76.70 to 77.70): VN060116.D (-3258) (-)

12.40

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.282 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060116.D

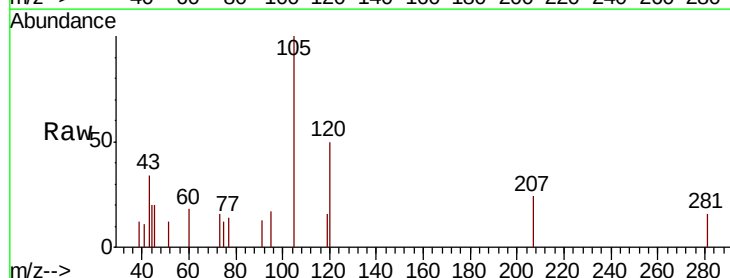
Acq: 17 Feb 2020 13:59

Tgt Ion: 105 Resp: 2259

Ion Ratio Lower Upper

105 100

120 44.8 24.3 72.9

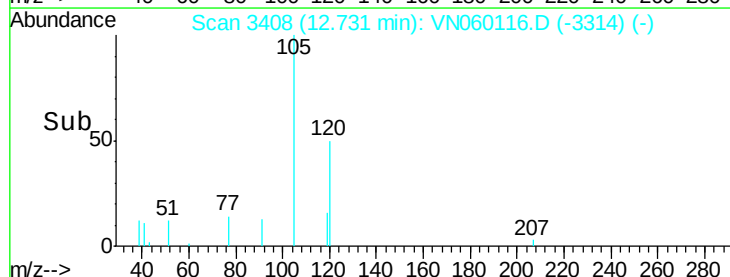


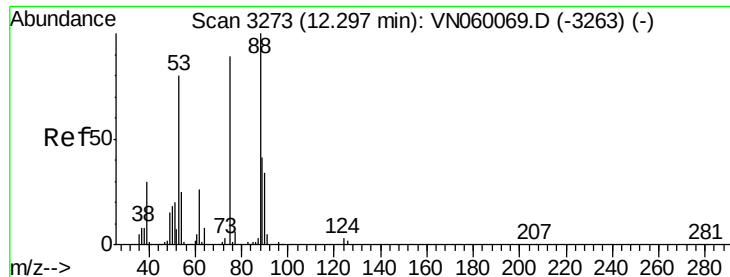
Abundance Ion 105.00 (104.70 to 105.70): VN060116.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060116.D (-3314) (-)

12.73

Time-->

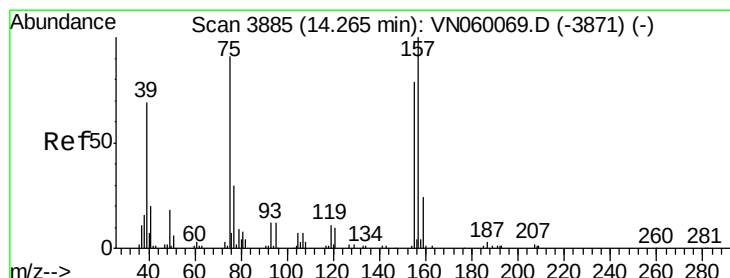
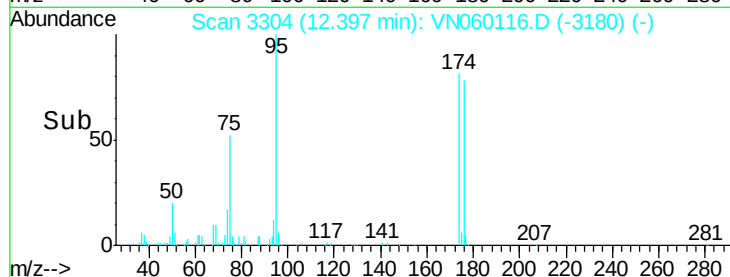
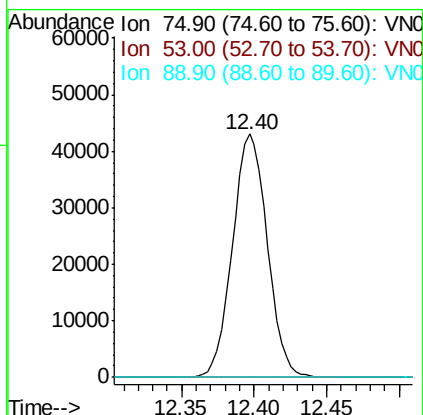
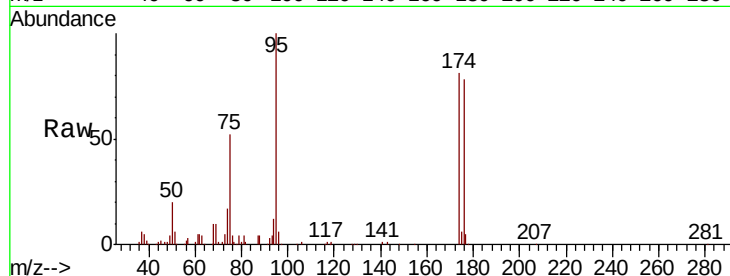




#81
trans-1,4-Dichloro-2-butene
Concen: 70.918 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

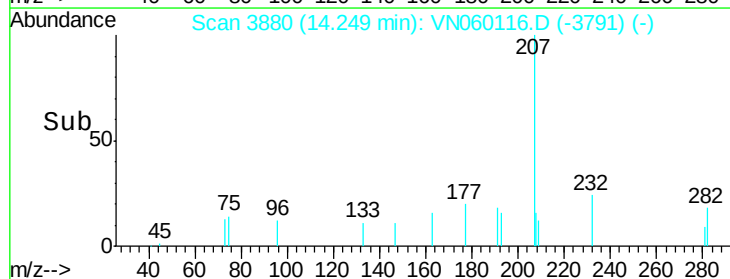
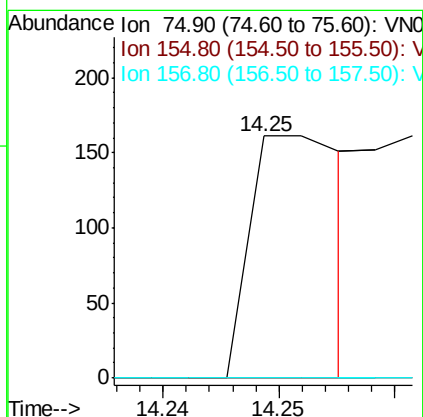
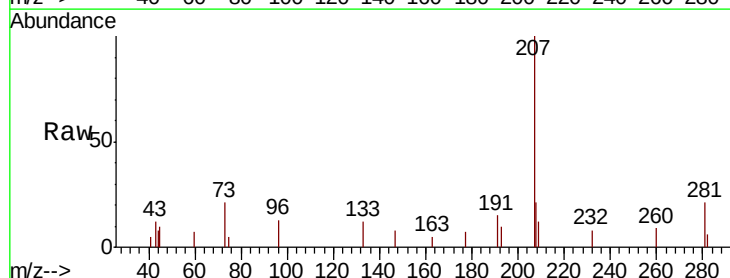
Instrument :
MSVOA_N
ClientSampleId :

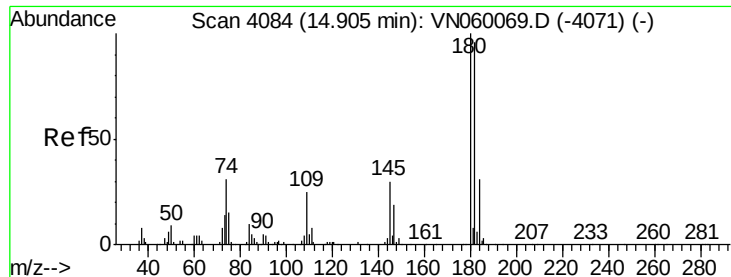
Tot Ion: 75 Resp: 71573
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.0 37.0 55.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.25 min Scan# 3880
Delta R.T. -0.02 min
Lab File: VN060116.D
Acq: 17 Feb 2020 13:59

Tgt Ion: 75 Resp: 91
Ion Ratio Lower Upper
75 100
155 0.0 43.0 129.0#
157 0.0 54.9 164.5#

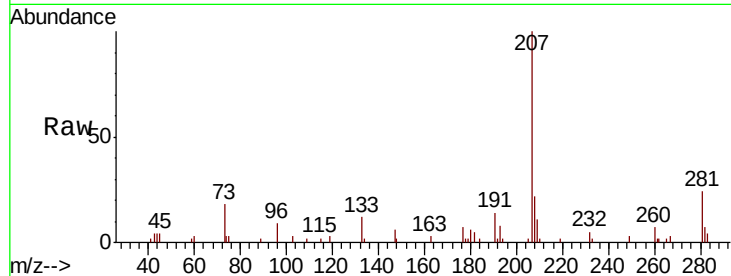




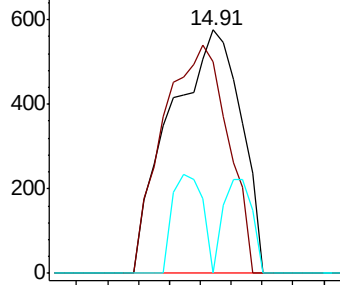
#93
 1,2,4-Trichlorobenzene
 Concen: 0.374 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

Instrument :
 MSVOA_N
 ClientSampled :

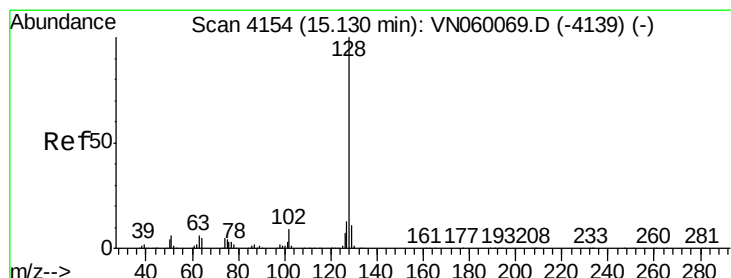
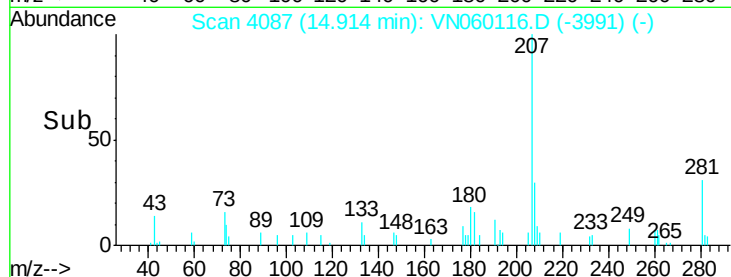
Tot Ion	Ratio	Lower	Upper
180	100		
182	86.4	47.9	143.8
145	17.4	15.2	45.5



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

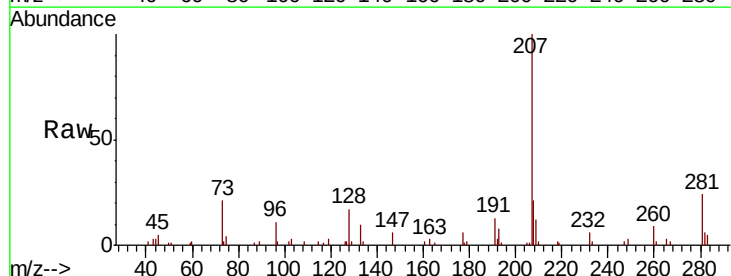


Time-->

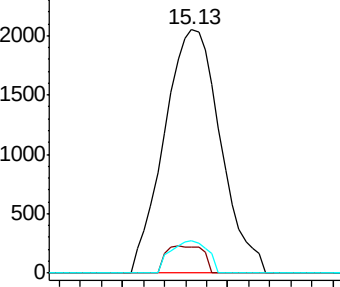


#95
 Naphthalene
 Concen: 0.577 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

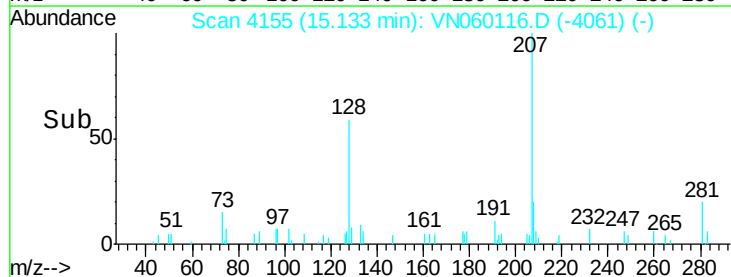
Tgt Ion	Ratio	Lower	Upper
128	100		
127	7.3	10.3	15.5#
129	8.8	8.6	13.0

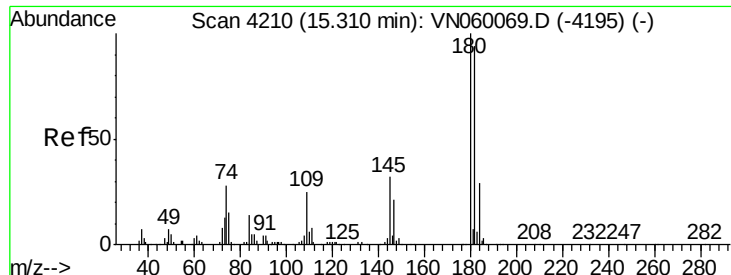


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time-->

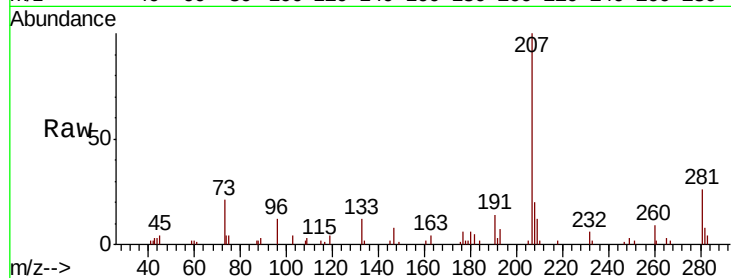




#96
 1,2,3-Trichlorobenzene
 Concen: 0.468 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN060116.D
 Acq: 17 Feb 2020 13:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.7	47.5	142.5
145	16.9	16.1	48.3



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

