

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058828.D
 Acq On : 17 Oct 2019 15:30
 Operator : JC/SP
 Sample : K5393-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:28:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	351717	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	559280	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	513573	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	186348	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	261503	53.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.22%	
35) Dibromofluoromethane	7.57	113	184421	53.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.76%	
50) Toluene-d8	10.09	98	717225	51.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.84%	
62) 4-Bromofluorobenzene	12.40	95	225392	43.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.20%	

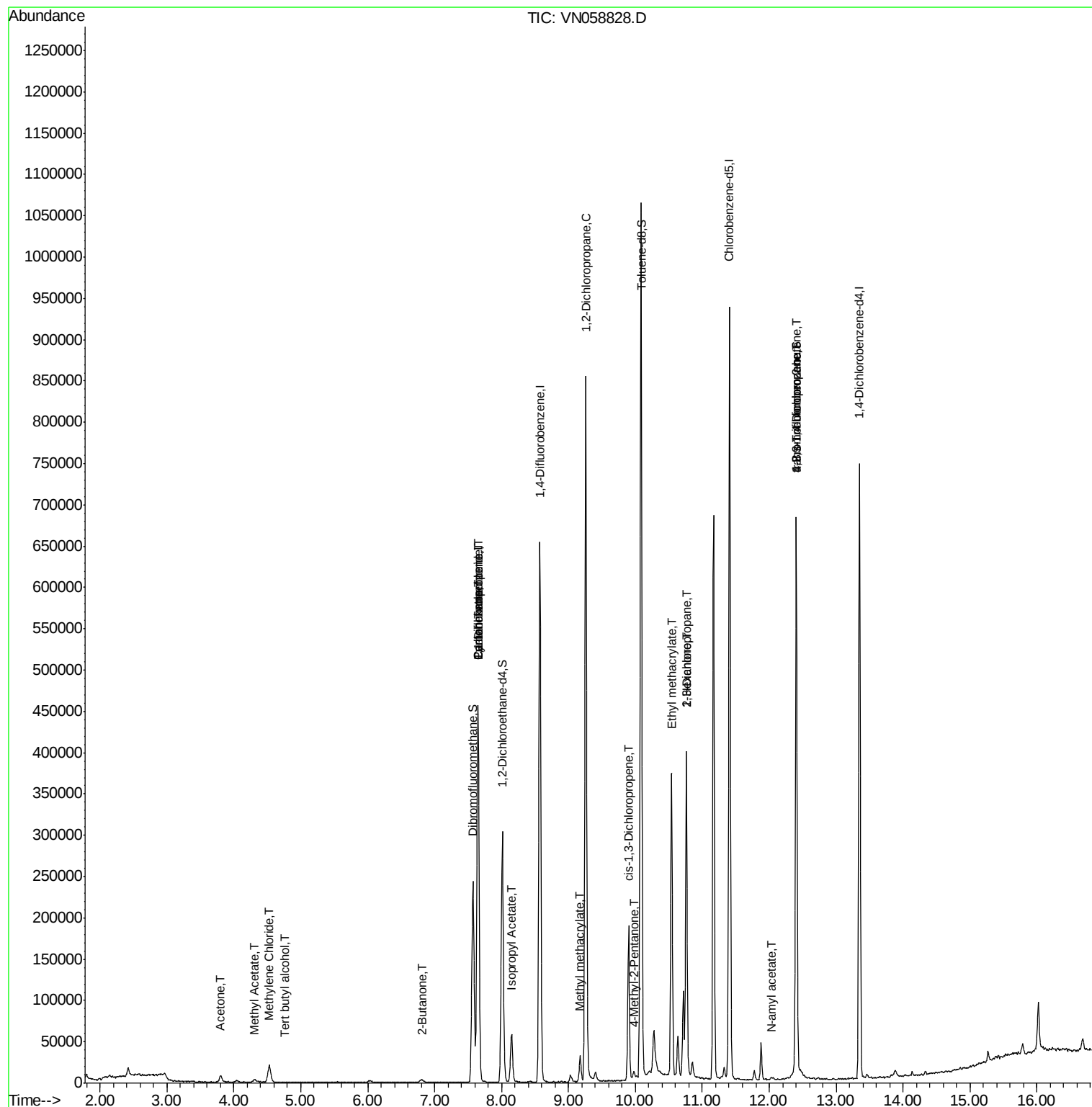
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	344	0.431	ug/l #	72
16) Acetone	3.80	43	15342	7.526	ug/l	93
18) Methyl Acetate	4.31	43	6435	1.244	ug/l #	64
20) Methylene Chloride	4.53	84	14956	3.510	ug/l	98
25) 2-Butanone	6.82	43	1367	0.464	ug/l	99
31) Cyclohexane	7.65	56	8808	1.220	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	30196	5.340	ug/l #	50
38) Carbon Tetrachloride	7.65	117	35629	6.465	ug/l #	18
43) Isopropyl Acetate	8.15	43	70309	7.217	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1055	0.243	ug/l #	45
48) Methyl methacrylate	9.17	41	4878	1.105	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	4748	0.868	ug/l #	84
54) cis-1,3-Dichloropropene	9.90	75	30375	4.444	ug/l #	71
56) Ethyl methacrylate	10.54	69	1508	0.254	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3775	0.545	ug/l #	42
59) 2-Hexanone	10.76	43	59857	14.156	ug/l #	54
74) N-amyl acetate	12.04	43	2359	0.389	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	123952	30.321	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	123952	81.220	ug/l #	11

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

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QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058828.D

Acq: 17 Oct 2019 15:30

Instrument :

MSVOA_N

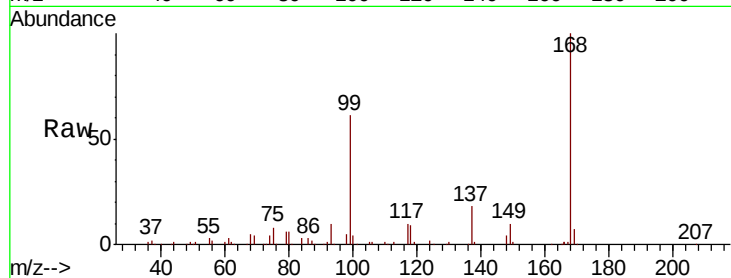
ClientSampled :

Tot Ion:168 Resp: 351717

Ion Ratio Lower Upper

168 100

99 60.5 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

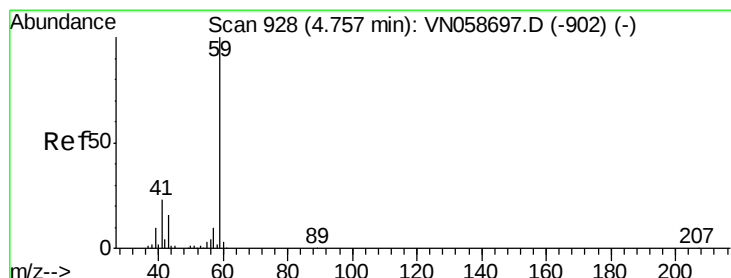
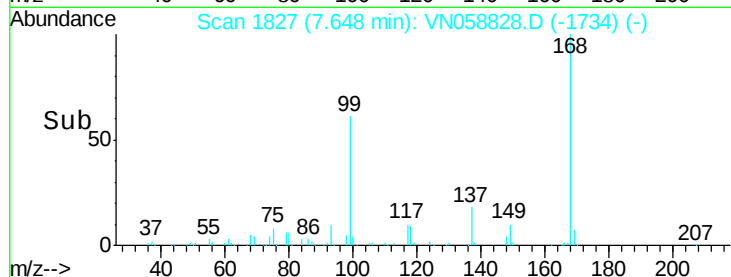
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.431 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.00 min

Lab File: VN058828.D

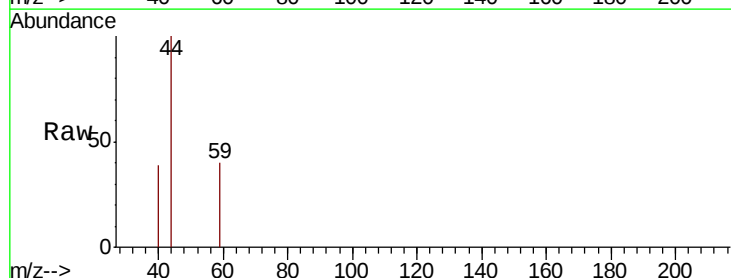
Acq: 17 Oct 2019 15:30

Tgt Ion: 59 Resp: 344

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.75

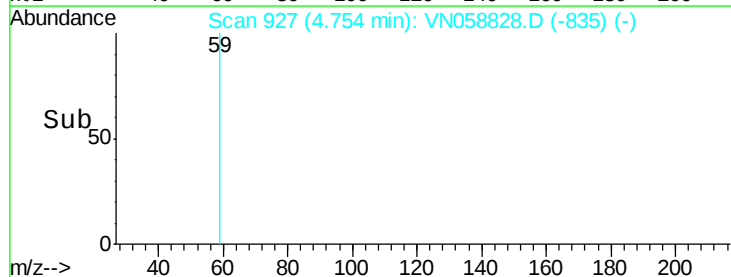
300

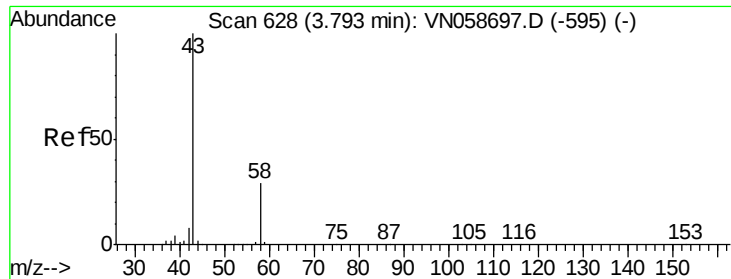
200

100

0

Time-->





#16

Acetone

Concen: 7.526 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058828.D

Acq: 17 Oct 2019 15:30

Instrument :

MSVOA_N

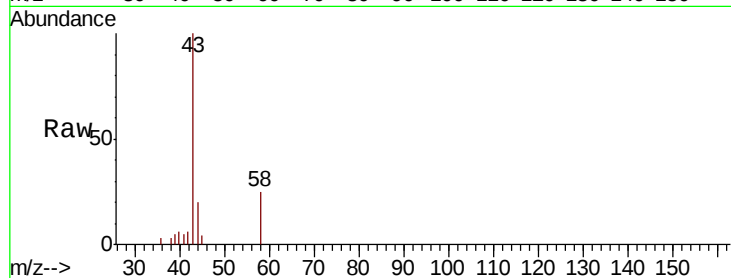
ClientSampleId :

Tot Ion: 43 Resp: 15342

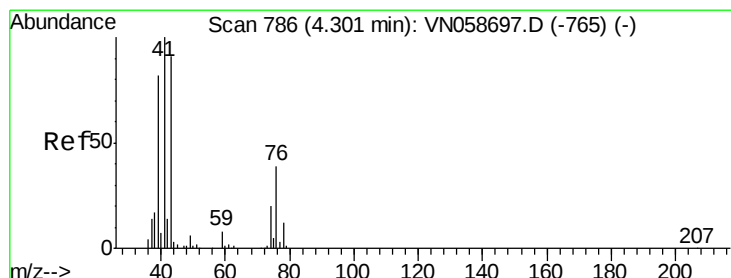
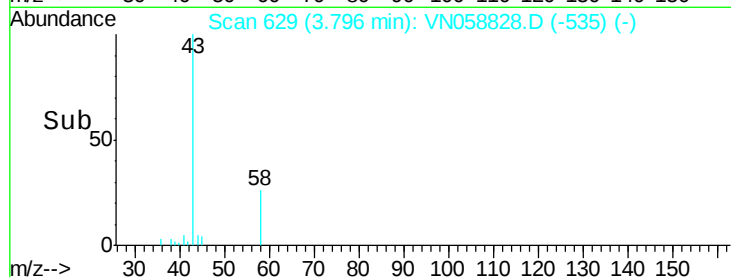
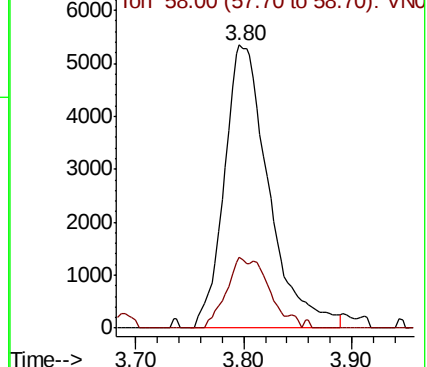
Ion Ratio Lower Upper

43 100

58 25.3 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058828.D (-535) (-)



#18

Methyl Acetate

Concen: 1.244 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058828.D

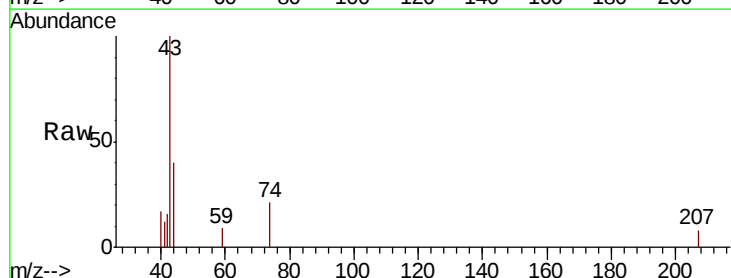
Acq: 17 Oct 2019 15:30

Tgt Ion: 43 Resp: 6435

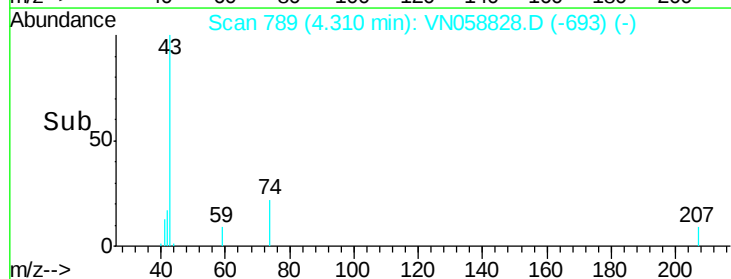
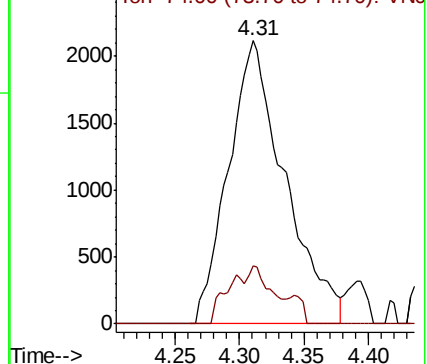
Ion Ratio Lower Upper

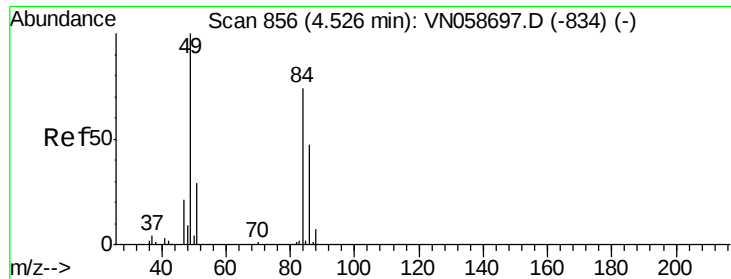
43 100

74 4.6 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN058828.D (-693) (-)

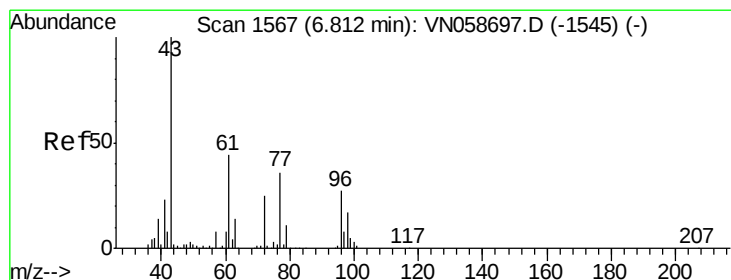
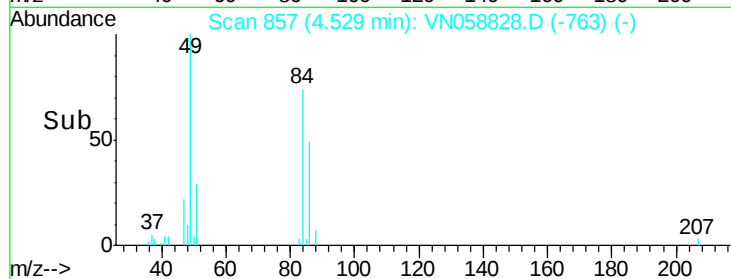
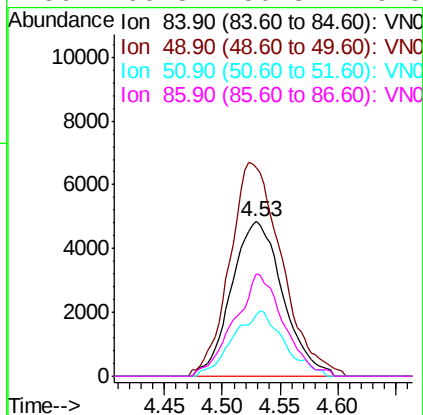
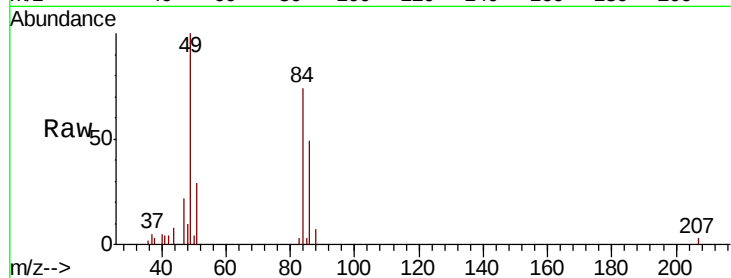




#20
Methvlene Chloride
Concen: 3.510 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058828.D
Acq: 17 Oct 2019 15:30

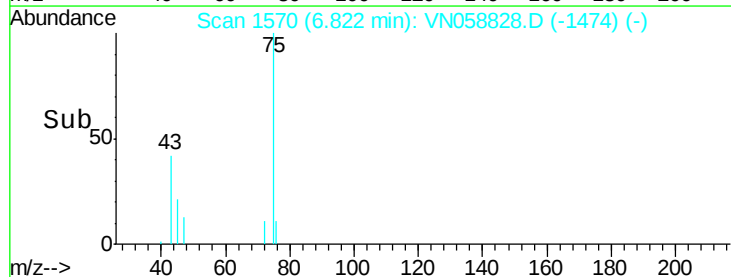
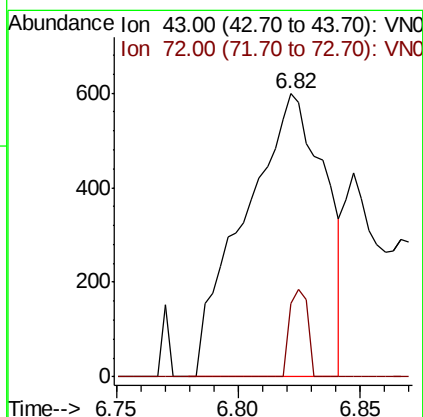
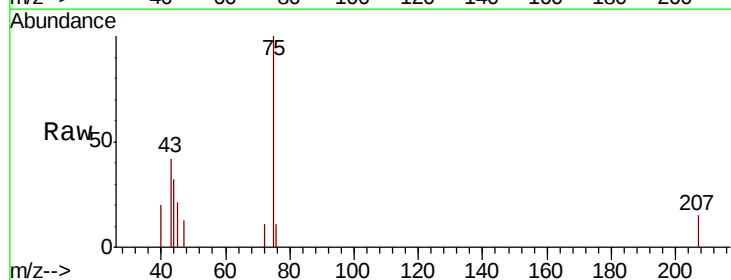
Instrument :
MSVOA_N
ClientSampleId :

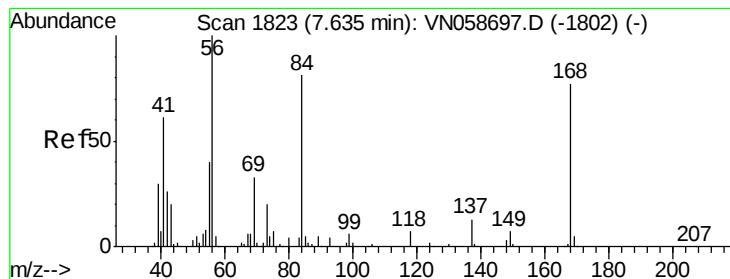
Tot Ion: 84 Resp: 14956
Ion Ratio Lower Upper
84 100
49 135.3 107.6 161.4
51 39.5 31.4 47.0
86 66.8 50.3 75.5



#25
2-Butanone
Concen: 0.464 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN058828.D
Acq: 17 Oct 2019 15:30

Tgt Ion: 43 Resp: 1367
Ion Ratio Lower Upper
43 100
72 25.8 20.2 30.2





#31

Cyclohexane

Concen: 1.220 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058828.D

Acq: 17 Oct 2019 15:30

Instrument :
MSVOA_N
ClientSampled :

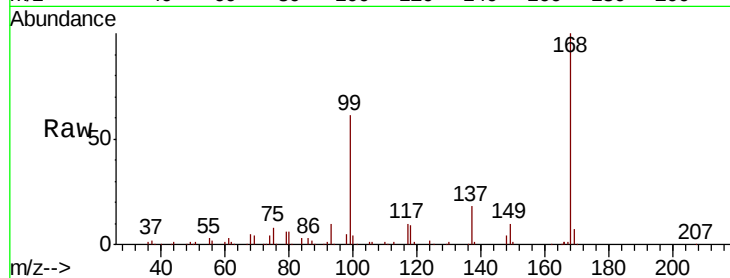
Tot Ion: 56 Resp: 8808

Ion Ratio Lower Upper

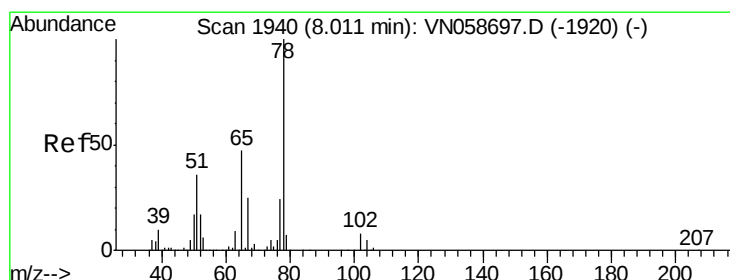
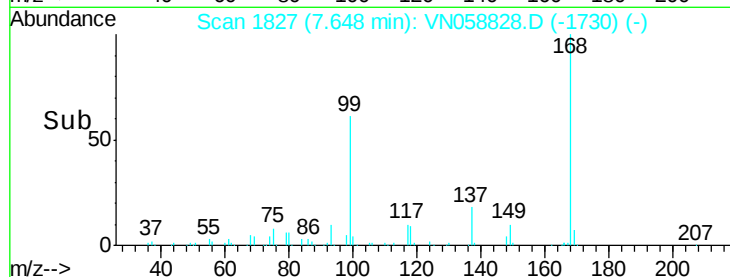
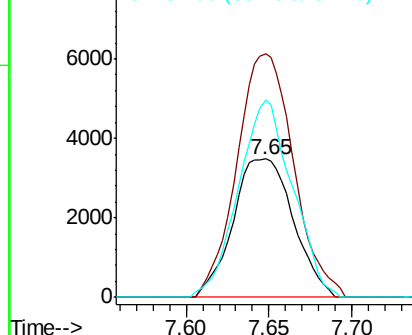
56 100

69 175.9 26.2 39.4#

84 143.0 64.9 97.3#



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: 53.108 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058828.D

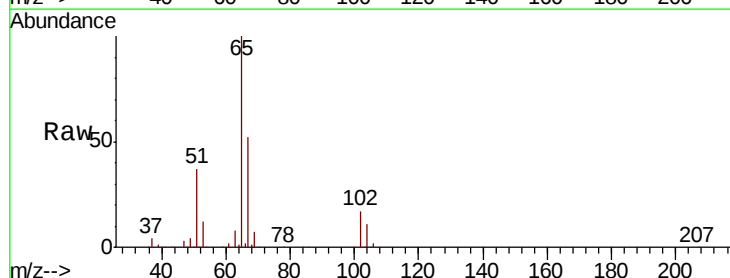
Acq: 17 Oct 2019 15:30

Tgt Ion: 65 Resp: 261503

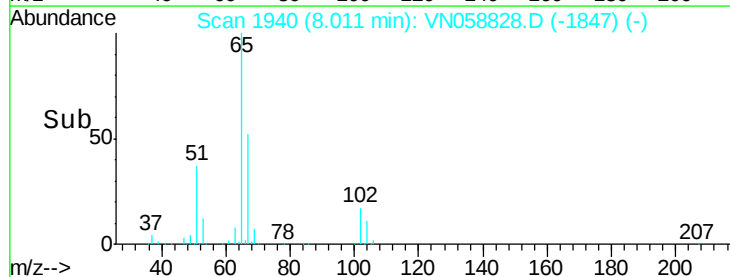
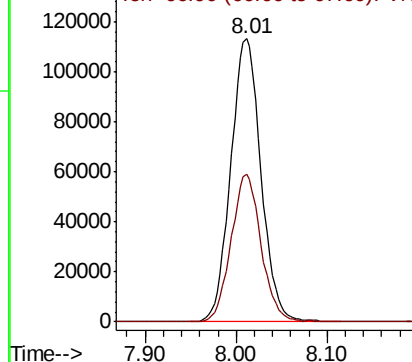
Ion Ratio Lower Upper

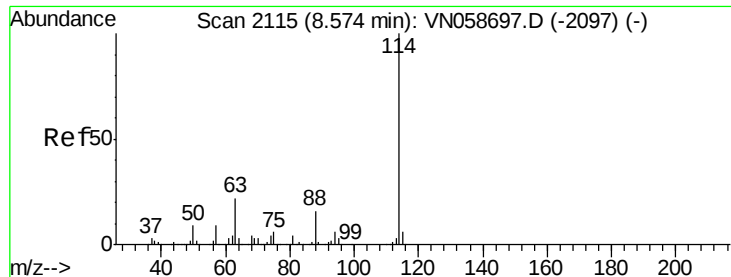
65 100

67 51.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

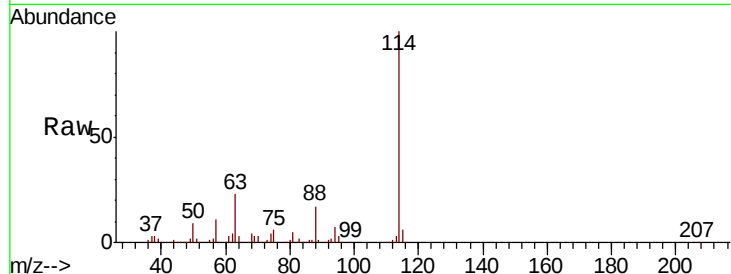




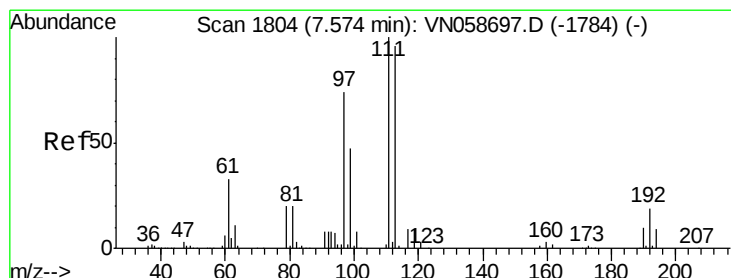
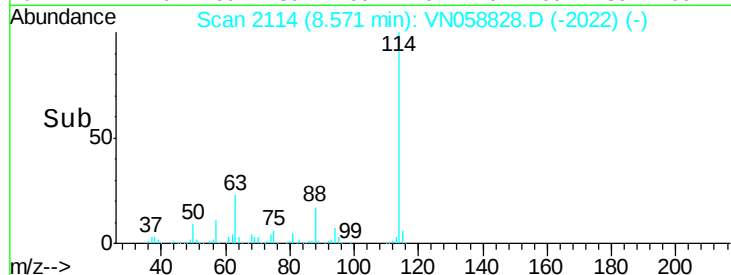
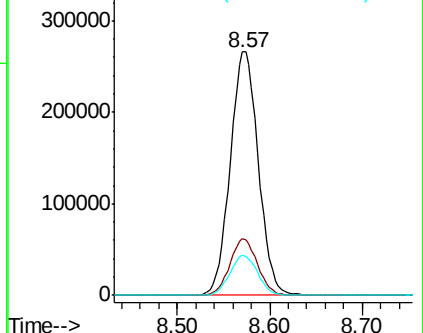
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058828.D
 Acq: 17 Oct 2019 15:30

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	43.8
88	16.6	0.0	32.0

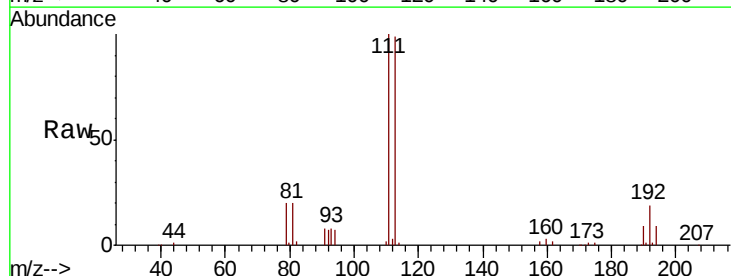


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

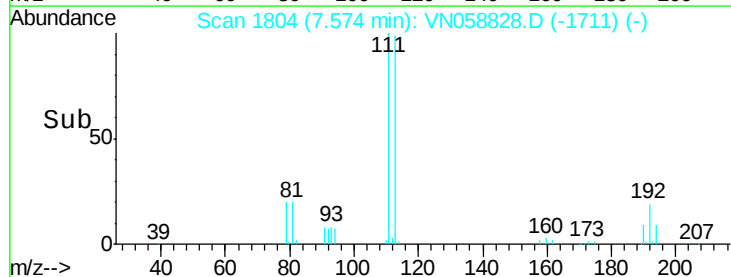
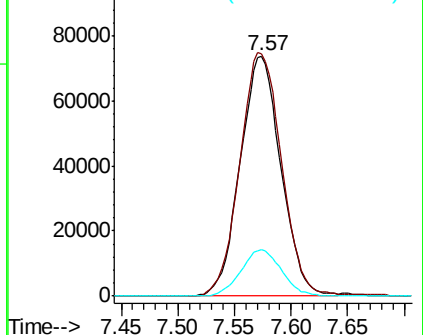


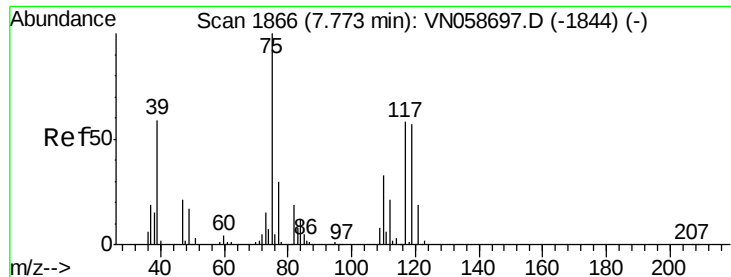
#35
 Dibromofluoromethane
 Concen: 53.385 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058828.D
 Acq: 17 Oct 2019 15:30

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.3	123.5
192	19.2	15.0	22.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

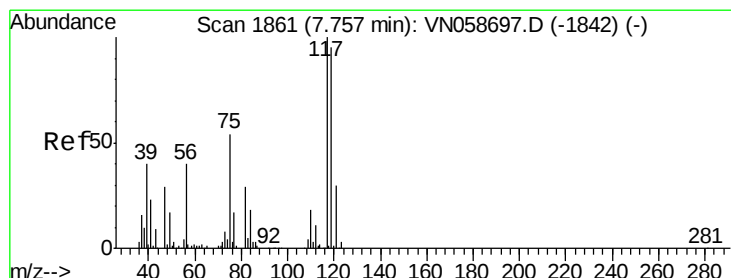
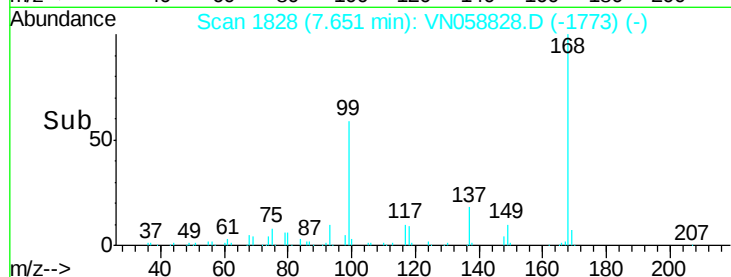
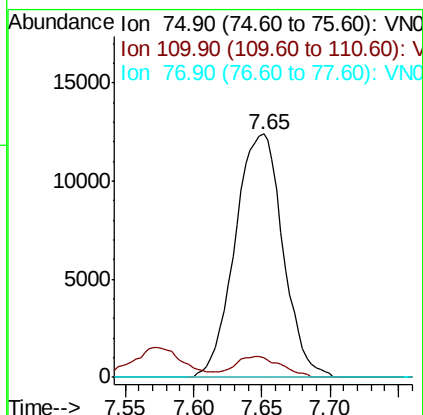
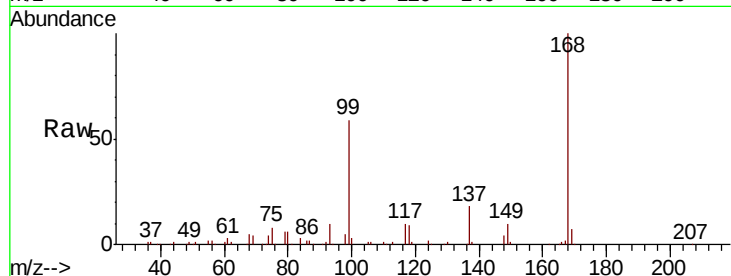




#36
 1,1-Dichloropropene
 Concen: 5.340 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.12 min
 Lab File: VN058828.D
 Acq: 17 Oct 2019 15:30

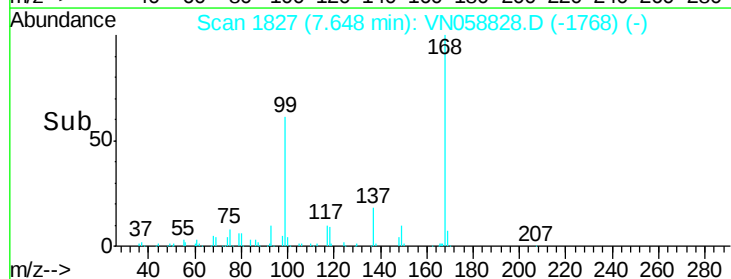
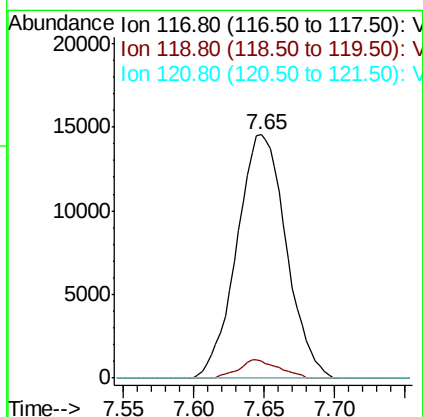
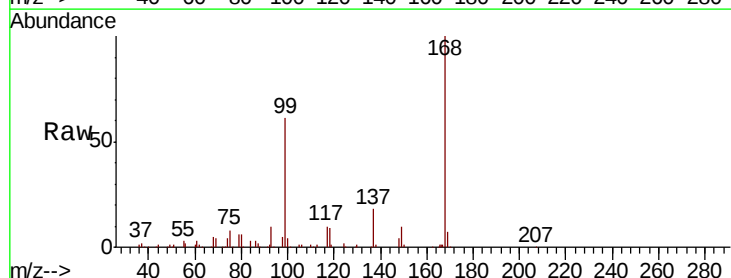
Instrument :
 MSVOA_N
 ClientSampleId :

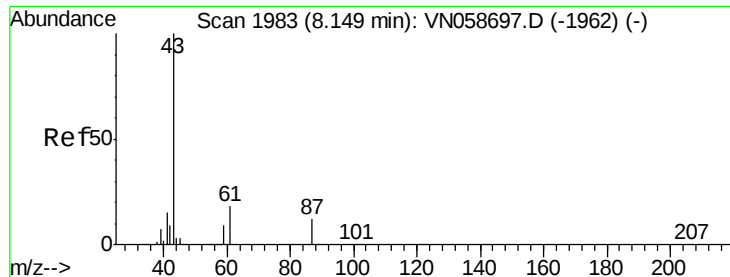
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.6	49.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.465 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058828.D
 Acq: 17 Oct 2019 15:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.9	75.7	113.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 7.217 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058828.D

Acq: 17 Oct 2019 15:30

Instrument :

MSVOA_N

ClientSampleId :

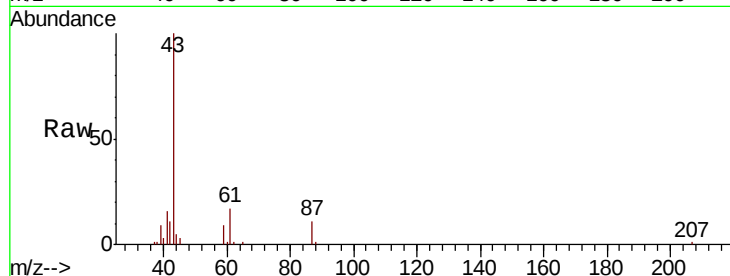
Tot Ion: 43 Resp: 70309

Ion Ratio Lower Upper

43 100

61 17.9 20.3 30.5#

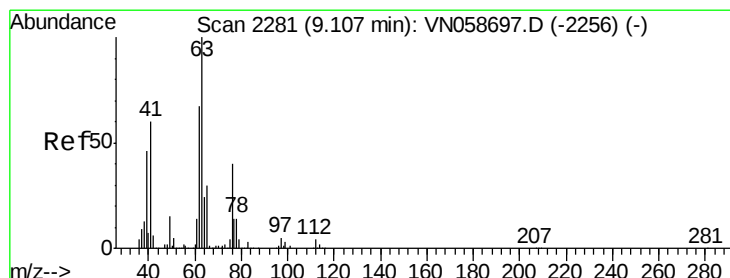
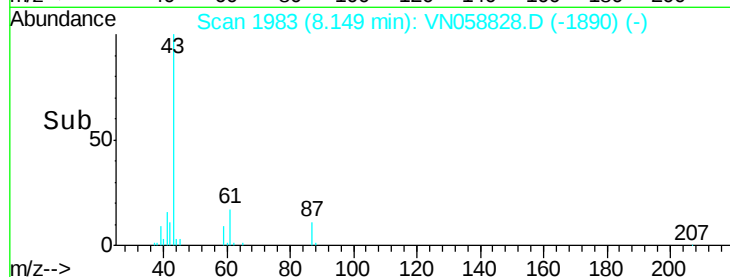
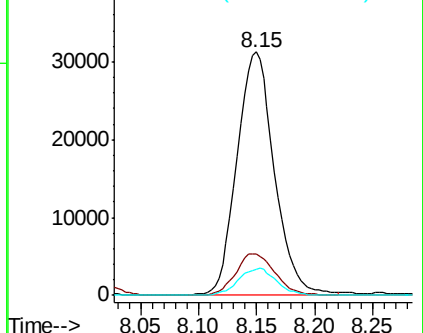
87 11.2 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058828.D (-1890) (-)

Ion 61.00 (60.70 to 61.70): VN058828.D (-1890) (-)

Ion 87.00 (86.70 to 87.70): VN058828.D (-1890) (-)



#45

1,2-Dichloropropane

Concen: 0.243 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN058828.D

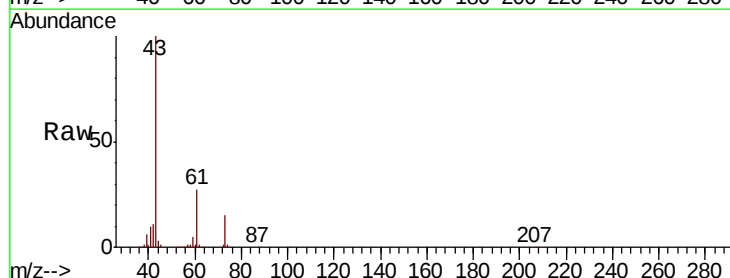
Acq: 17 Oct 2019 15:30

Tgt Ion: 63 Resp: 1055

Ion Ratio Lower Upper

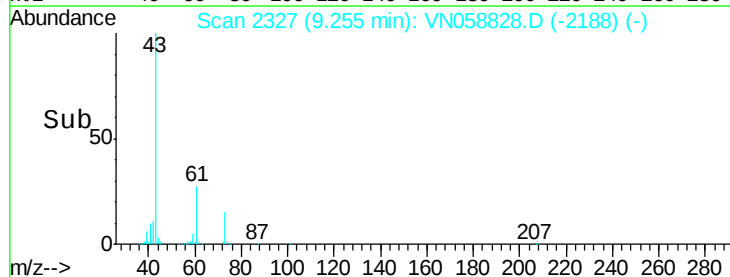
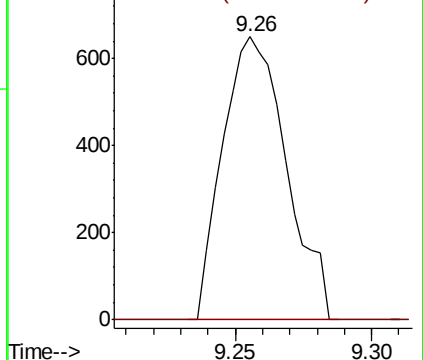
63 100

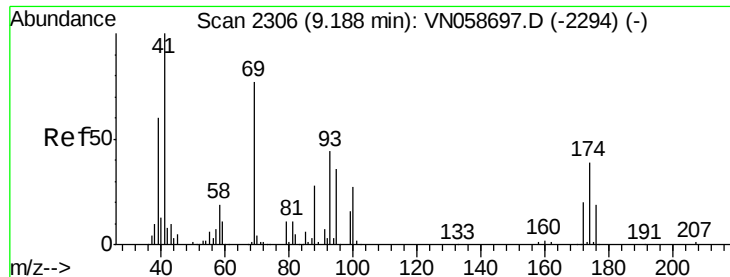
65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN058828.D (-2188) (-)

Ion 64.90 (64.60 to 65.60): VN058828.D (-2188) (-)

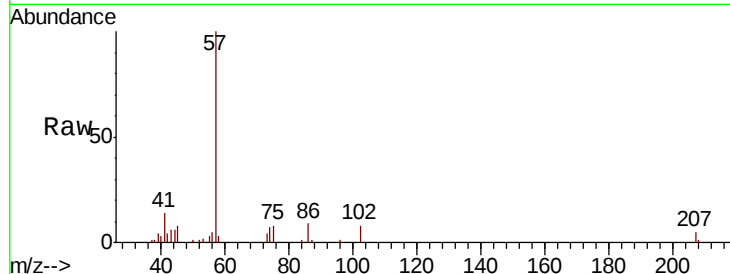




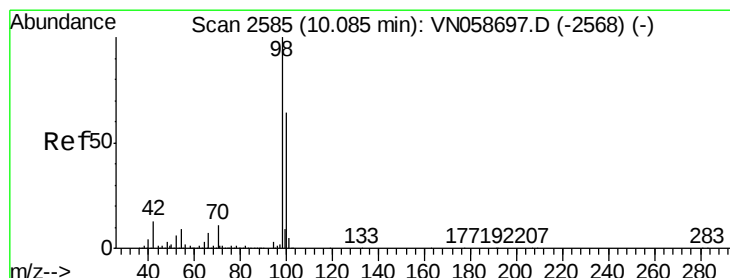
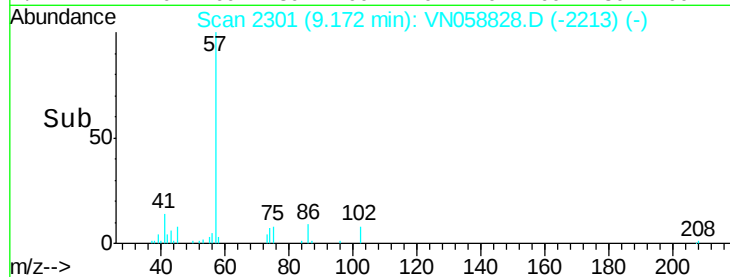
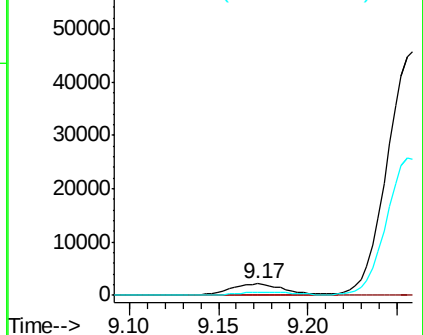
#48
Methvl methacrylate
Concen: 1.105 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN058828.D
Acq: 17 Oct 2019 15:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 4878
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.2#
39 0.0 48.9 73.3#

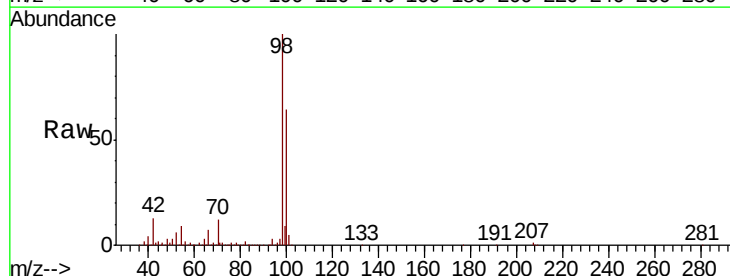


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

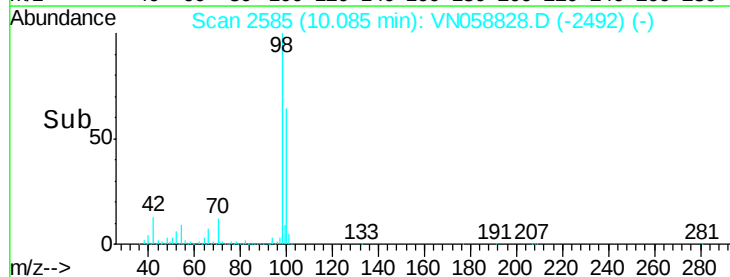
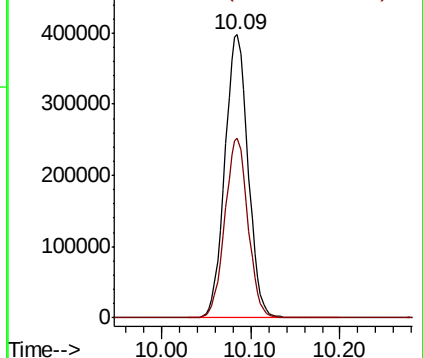


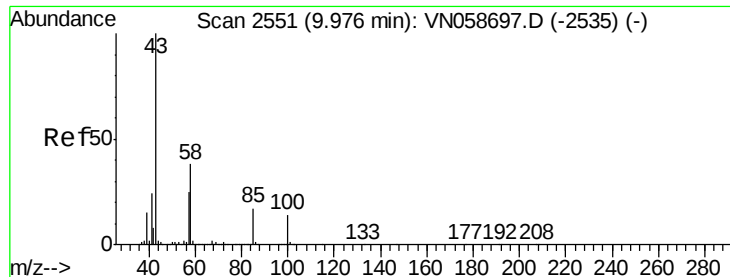
#50
Toluene-d8
Concen: 51.919 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058828.D
Acq: 17 Oct 2019 15:30

Tgt Ion: 98 Resp: 717225
Ion Ratio Lower Upper
98 100
100 63.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

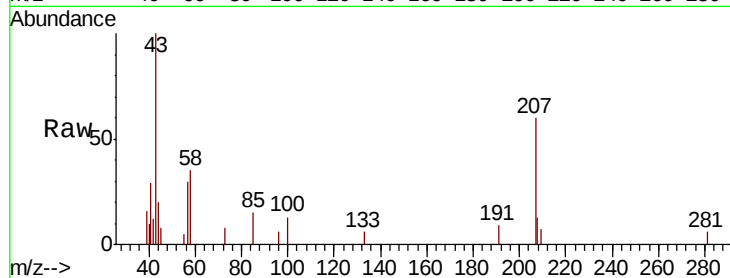




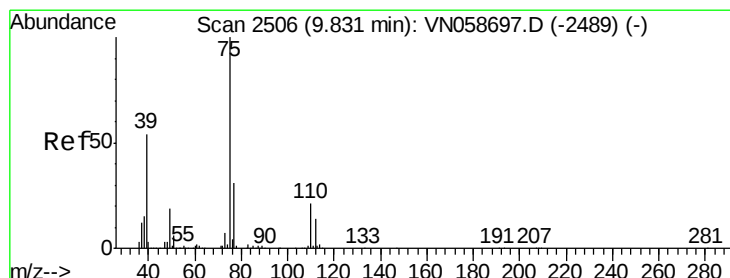
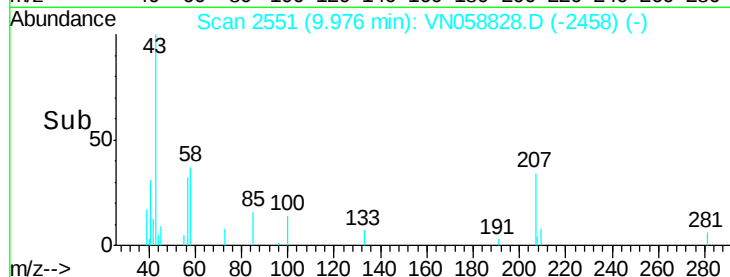
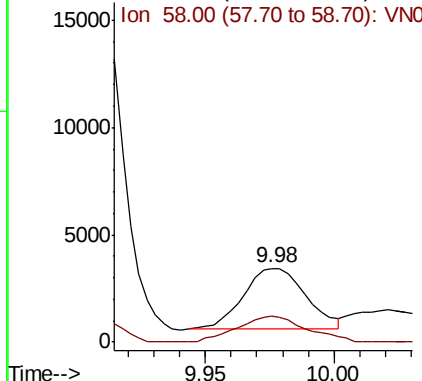
#51
 4-Methyl-2-Pentanone
 Concen: 0.868 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.00 min
 Lab File: VN058828.D
 Acq: 17 Oct 2019 15:30

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 43 Resp: 4748
 Ion Ratio Lower Upper
 43 100
 58 47.8 30.3 45.5#

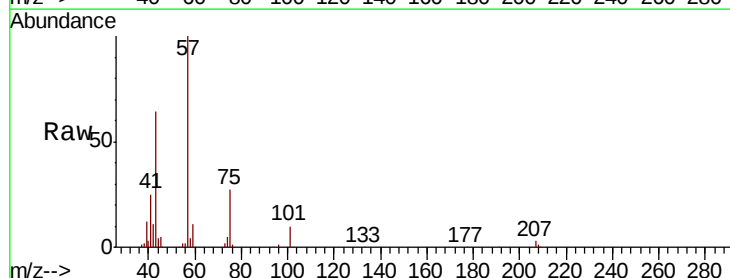


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

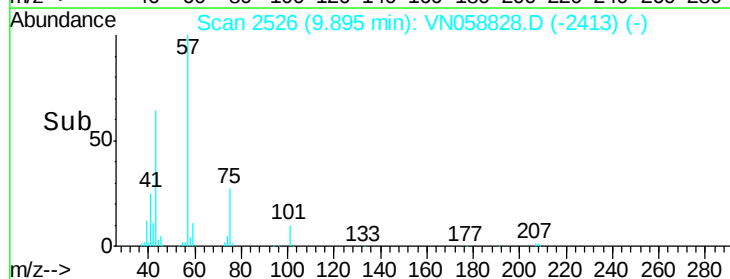
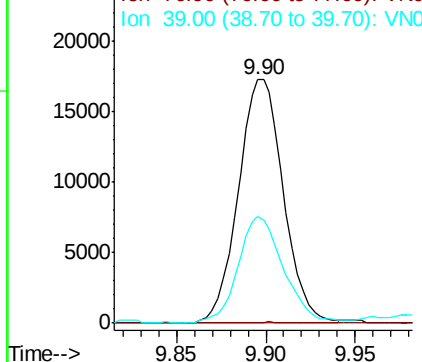


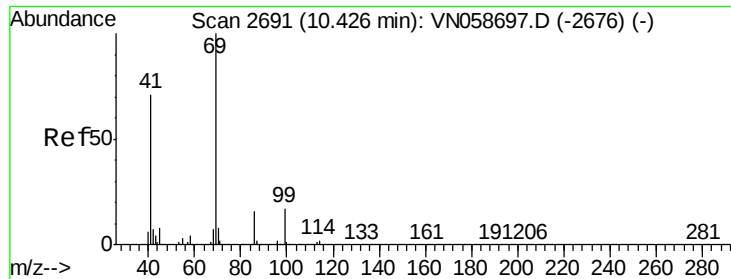
#54
 cis-1,3-Dichloropropene
 Concen: 4.444 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.06 min
 Lab File: VN058828.D
 Acq: 17 Oct 2019 15:30

Tgt Ion: 75 Resp: 30375
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.4 36.6#
 39 43.9 43.1 64.7



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





#56

Ethyl methacrylate

Concen: 0.254 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058828.D

Acq: 17 Oct 2019 15:30

Instrument :

MSVOA_N

ClientSampled :

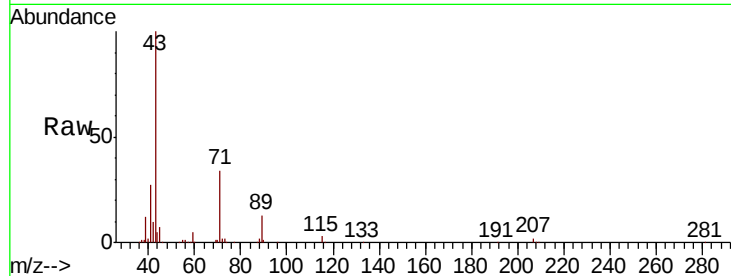
Tot Ion: 69 Resp: 1508

Ion Ratio Lower Upper

69 100

41 4845.8 56.8 85.2#

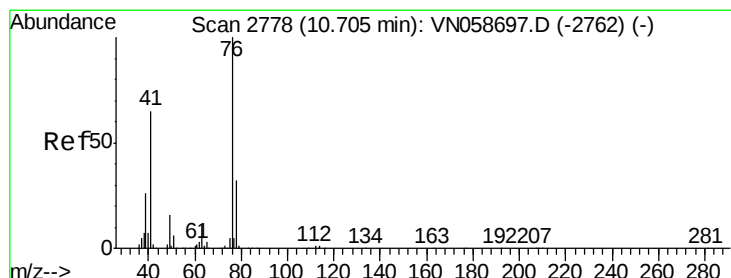
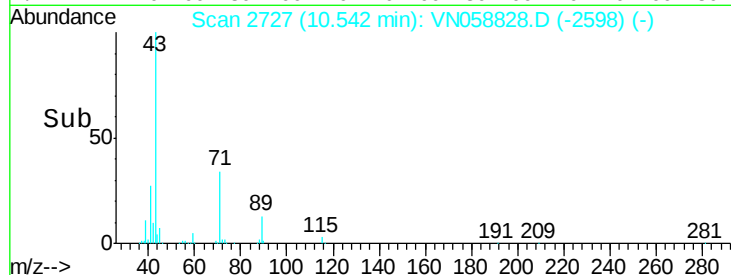
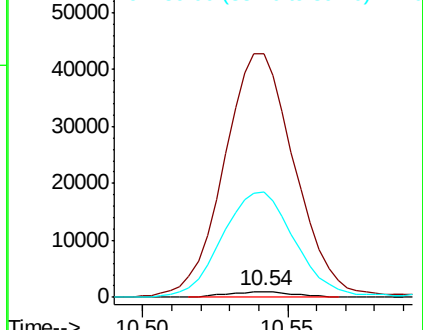
39 2155.2 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.545 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058828.D

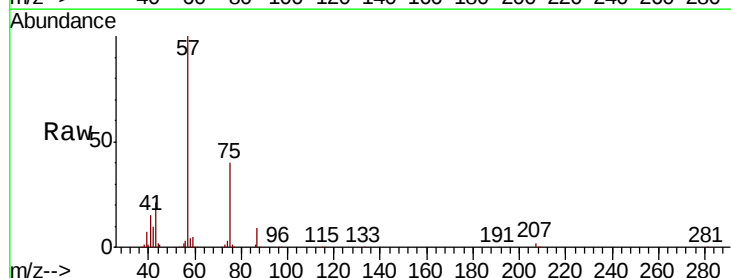
Acq: 17 Oct 2019 15:30

Tgt Ion: 76 Resp: 3775

Ion Ratio Lower Upper

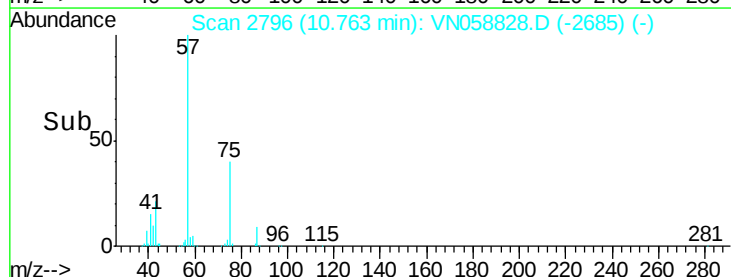
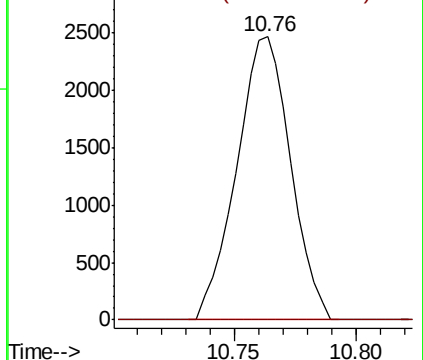
76 100

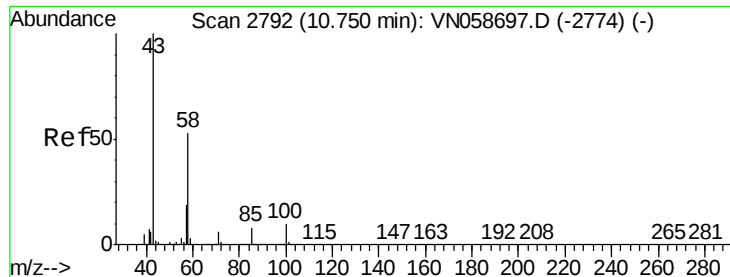
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

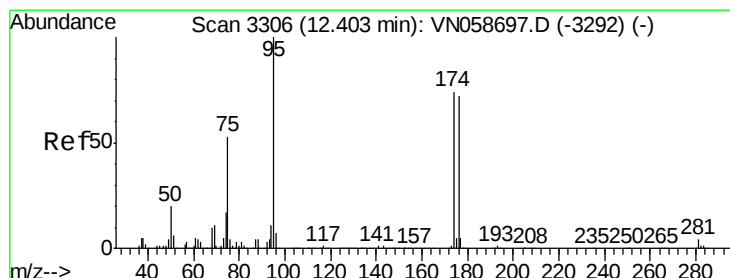
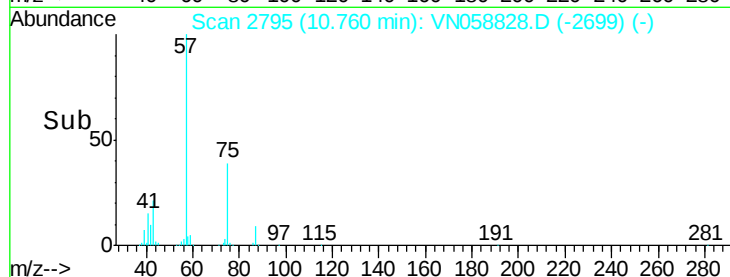
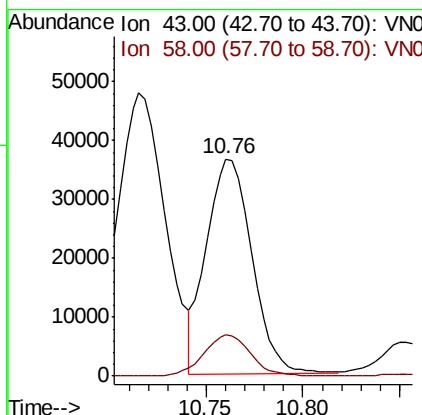
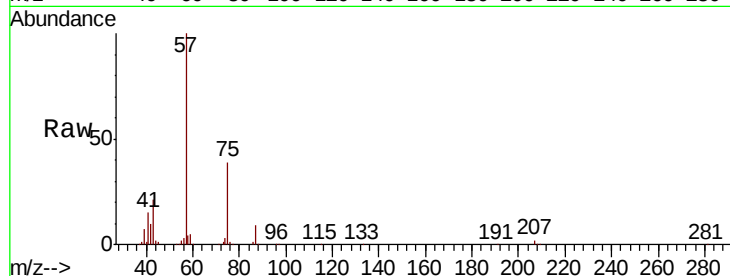




#59
2-Hexanone
Concen: 14.156 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN058828.D
Acq: 17 Oct 2019 15:30

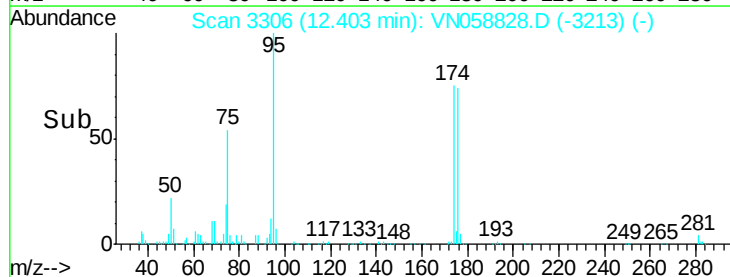
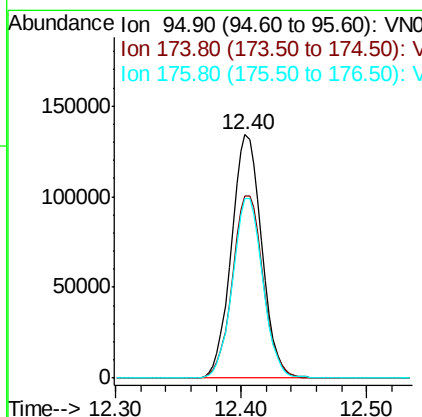
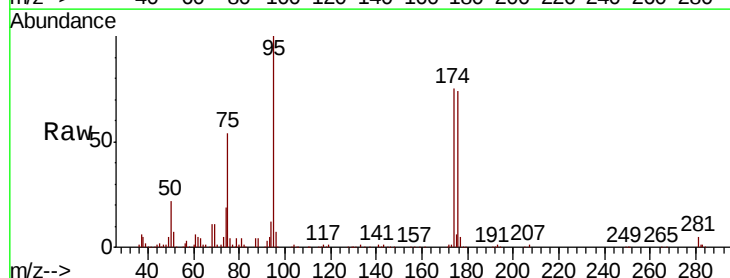
Instrument :
MSVOA_N
ClientSampled :

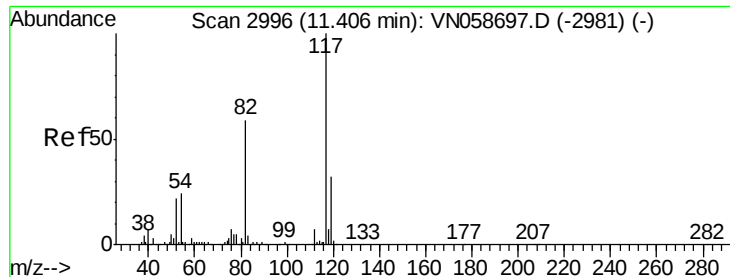
Tot Ion: 43 Resp: 59857
Ion Ratio Lower Upper
43 100
58 19.6 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 43.103 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058828.D
Acq: 17 Oct 2019 15:30

Tgt Ion: 95 Resp: 225392
Ion Ratio Lower Upper
95 100
174 76.2 0.0 150.4
176 73.6 0.0 146.8

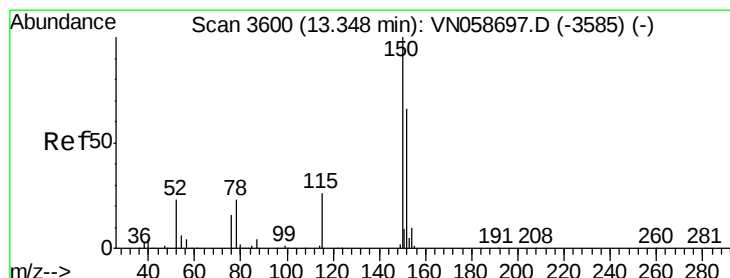
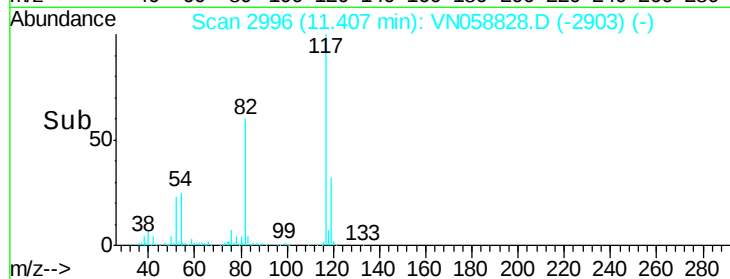
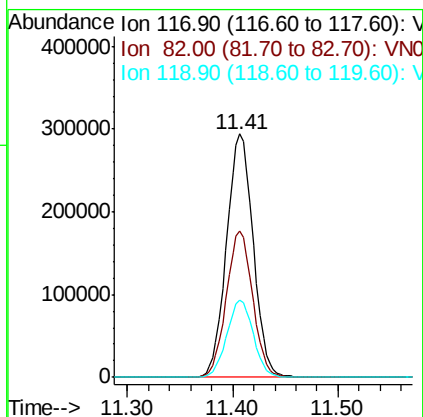
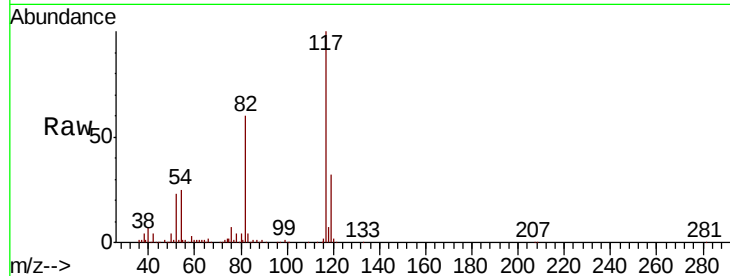




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058828.D
Acq: 17 Oct 2019 15:30

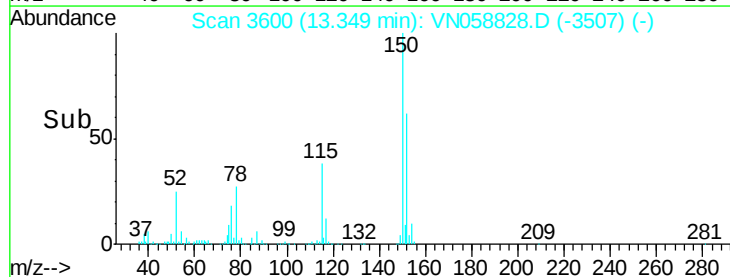
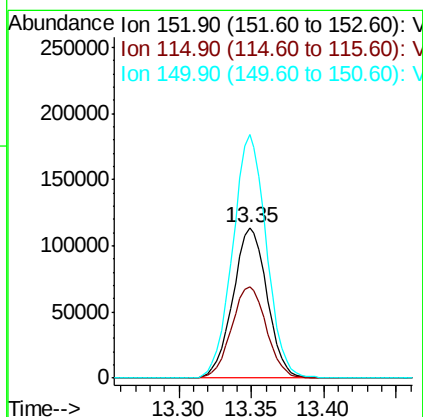
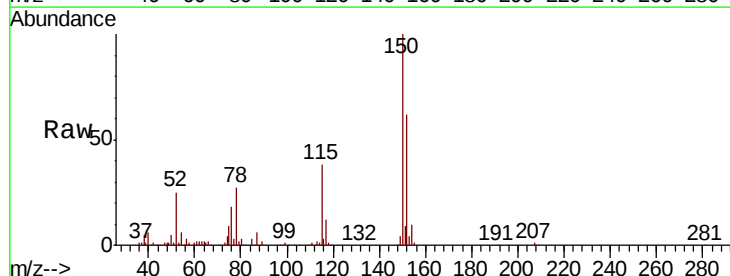
Instrument :
MSVOA_N
ClientSampleId :

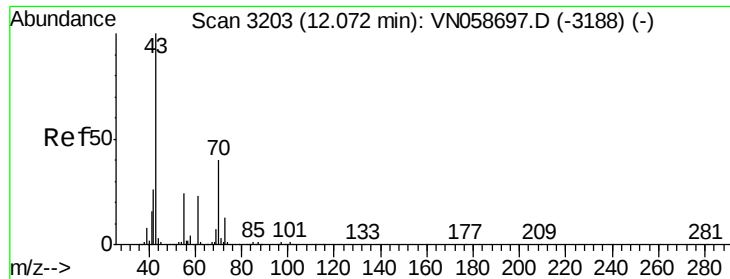
Tot Ion:117 Resp: 513573
Ion Ratio Lower Upper
117 100
82 59.9 47.0 70.4
119 31.6 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058828.D
Acq: 17 Oct 2019 15:30

Tgt Ion:152 Resp: 186348
Ion Ratio Lower Upper
152 100
115 62.1 30.4 91.2
150 159.5 0.0 345.4





#74

N-amvl acetate

Concen: 0.389 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN058828.D

Acq: 17 Oct 2019 15:30

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2359

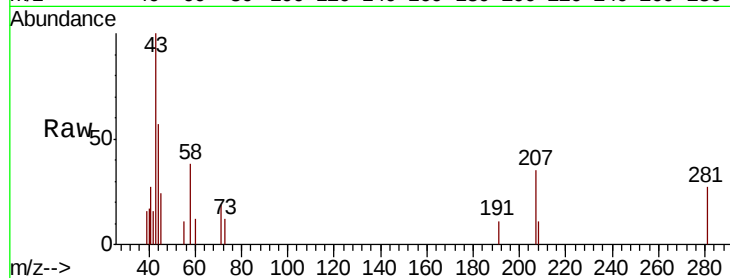
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 4.1 19.6 29.4#

61 0.0 18.6 28.0#

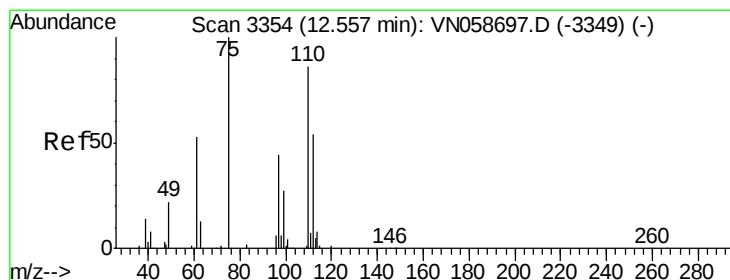
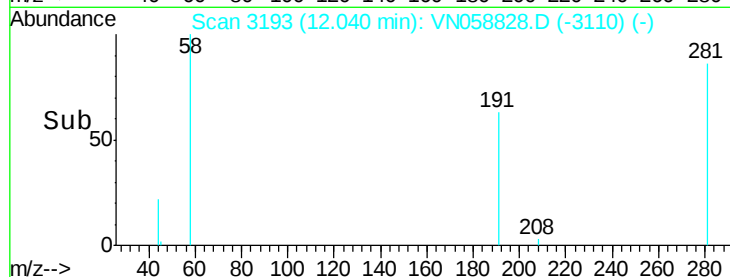
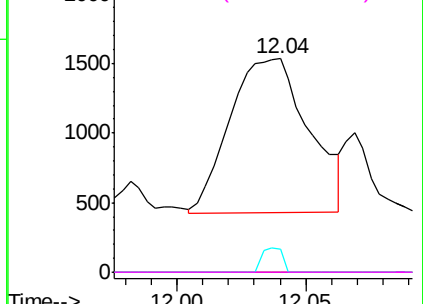


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.321 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058828.D

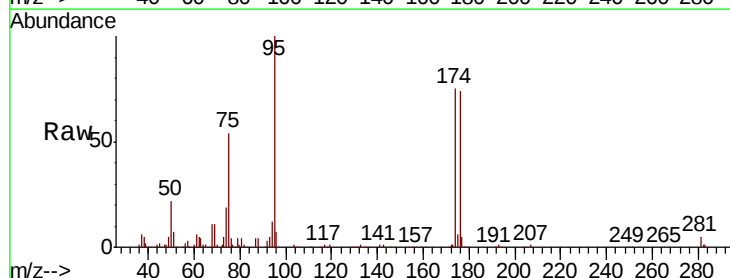
Acq: 17 Oct 2019 15:30

Tgt Ion: 75 Resp: 123952

Ion Ratio Lower Upper

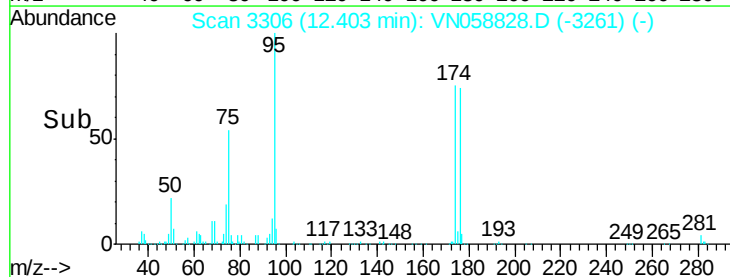
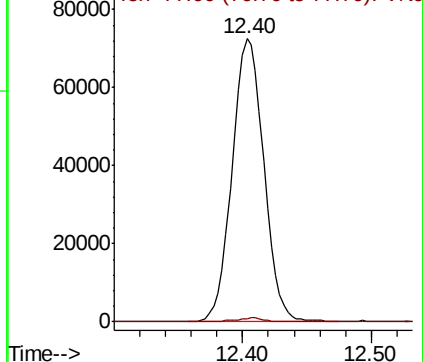
75 100

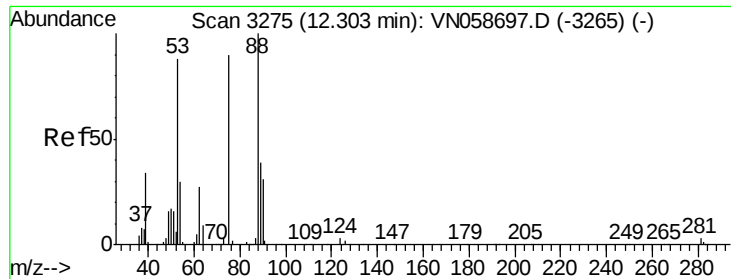
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

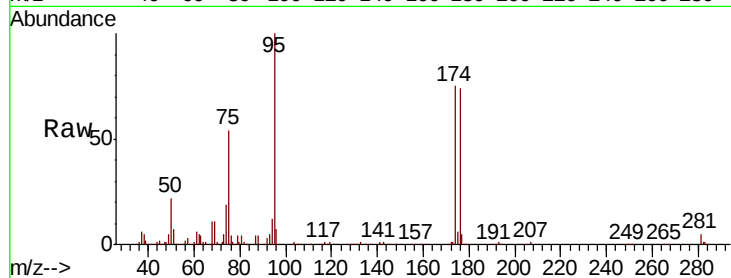




#81
trans-1,4-Dichloro-2-butene
Concen: 81.220 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN058828.D
Acq: 17 Oct 2019 15:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	78.4	117.6#
89	0.0	34.9	52.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

