

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058193.D
 Acq On : 19 Sep 2019 10:34
 Operator : JC/SP
 Sample : K4896-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 01:48:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	531221	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	862587	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	726256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	301036	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	357599	48.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.66%	
35) Dibromofluoromethane	7.57	113	248502	47.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.78%	
50) Toluene-d8	10.08	98	1011676	49.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	12.40	95	328220	43.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.50%	

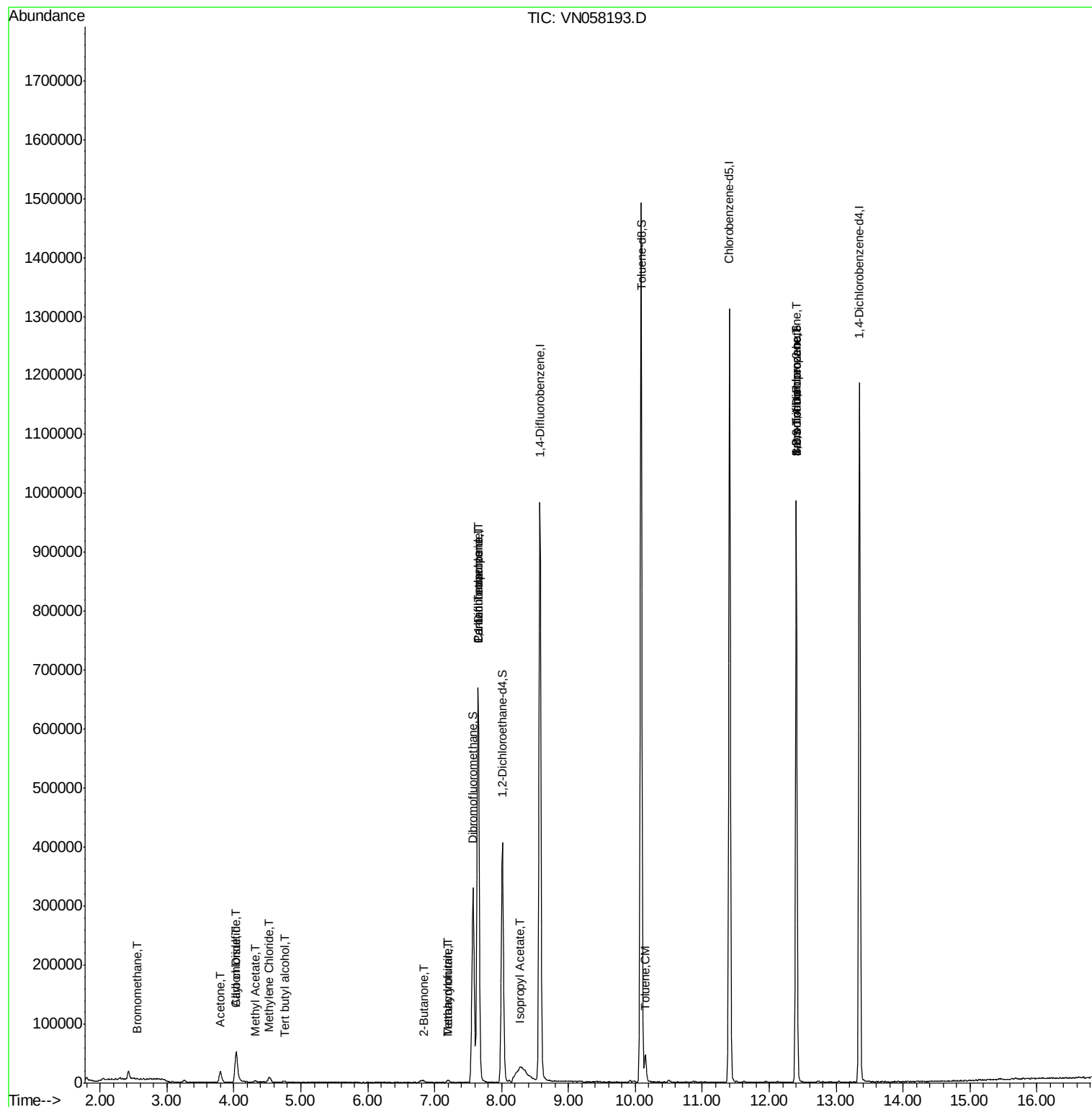
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1203	Below Cal		96
5) Bromomethane	2.55	94	129	0.788 ug/l #		4
6) Chloroethane	2.70	64	95	Below Cal #		44
11) Tert butyl alcohol	4.76	59	2780	3.159 ug/l #		71
14) Allyl chloride	4.04	41	7834	1.115 ug/l #		70
16) Acetone	3.80	43	30458	12.128 ug/l		96
17) Carbon Disulfide	4.02	76	130	0.299 ug/l #		74
18) Methyl Acetate	4.32	43	2749	0.416 ug/l #		88
20) Methylene Chloride	4.53	84	6642	1.294 ug/l #		75
25) 2-Butanone	6.83	43	2452	0.717 ug/l		90
29) Tetrahydrofuran	7.20	42	1625	0.771 ug/l #		74
31) Cyclohexane	7.65	56	13099	Below Cal #		19
36) 1,1-Dichloropropene	7.65	75	44246	7.113 ug/l #		52
38) Carbon Tetrachloride	7.65	117	53737	8.594 ug/l #		15
41) Methacrylonitrile	7.19	41	999	1.213 ug/l #		100
43) Isopropyl Acetate	8.27	43	43016	3.568 ug/l #		57
52) Toluene	10.15	92	18117	1.522 ug/l		98
71) Bromoform	12.41	173	2258	4.205 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	177445	32.936 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	177445	92.474 ug/l #		5

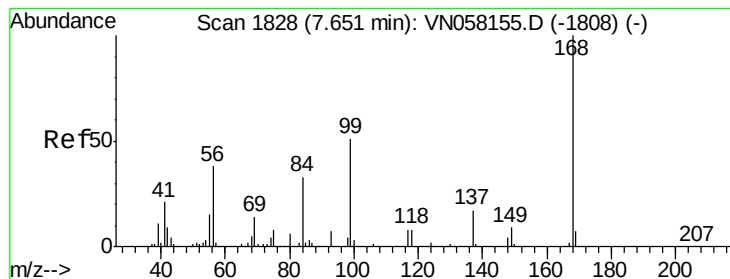
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 19 09:27:53 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

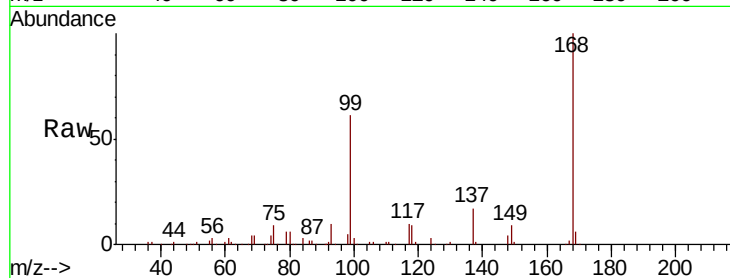
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 531221

Ion Ratio Lower Upper

168 100

99 60.9 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

150000

100000

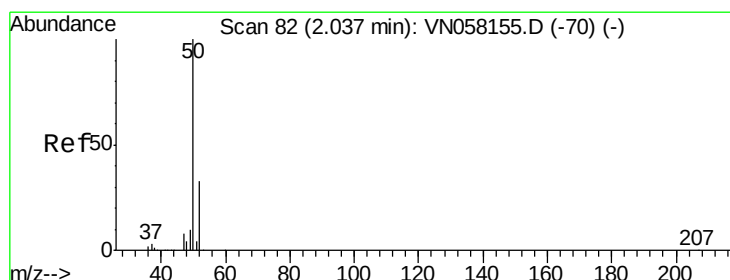
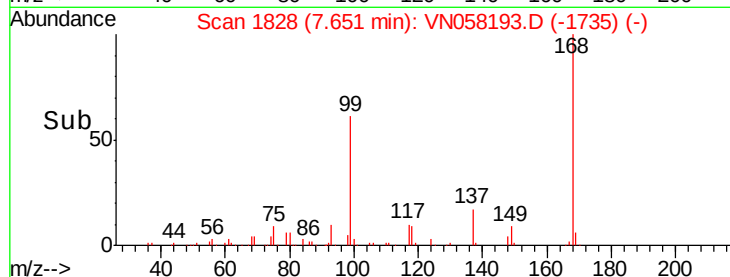
50000

0

7.60

7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058193.D

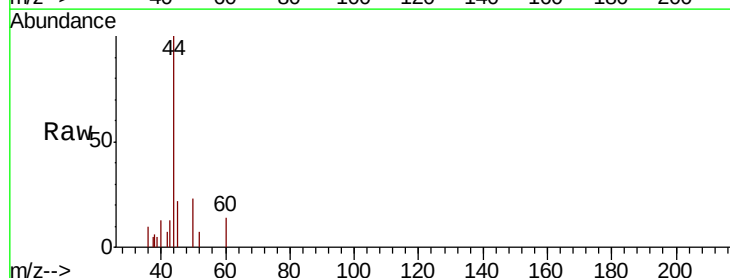
Acq: 19 Sep 2019 10:34

Tgt Ion: 50 Resp: 1203

Ion Ratio Lower Upper

50 100

52 30.7 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

600

400

200

0

2.00

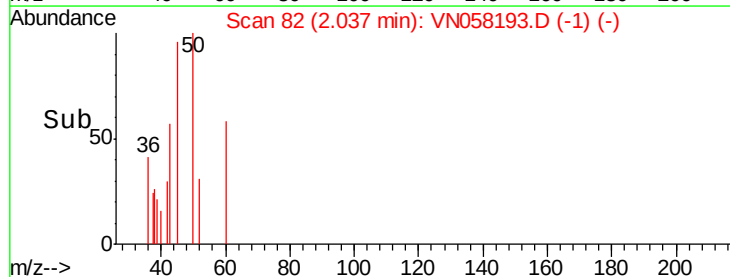
2.02

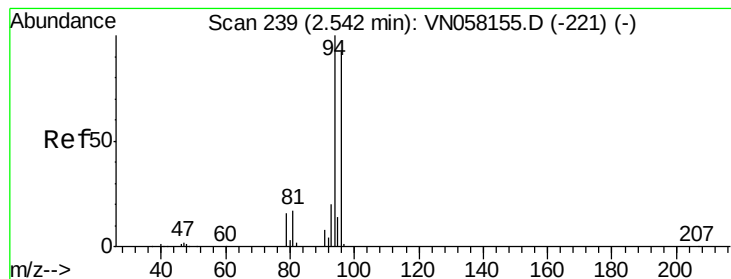
2.04

2.06

2.08

Time-->





#5

Bromomethane

Concen: 0.788 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_N

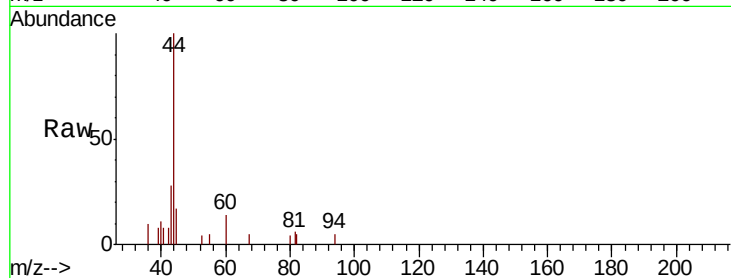
ClientSampled :

Tot Ion: 94 Resp: 129

Ion Ratio Lower Upper

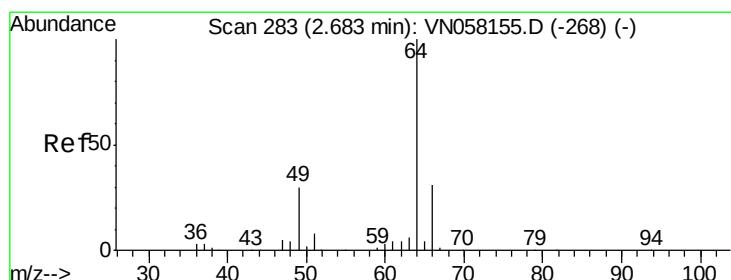
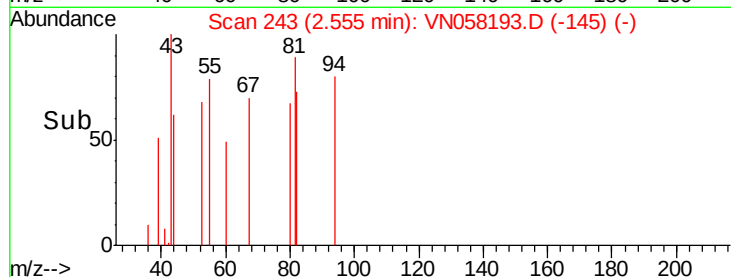
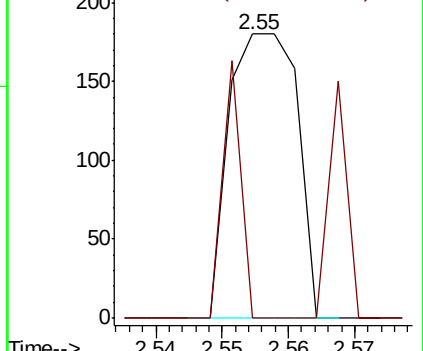
94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 287

Delta R.T. 0.01 min

Lab File: VN058193.D

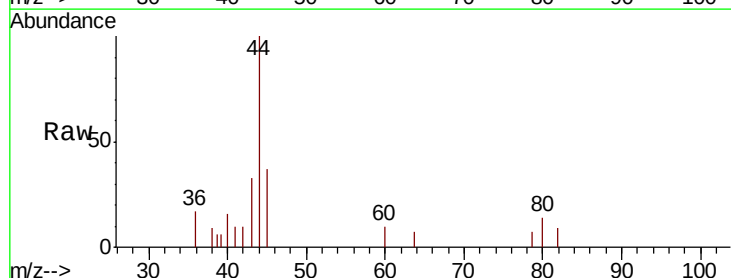
Acq: 19 Sep 2019 10:34

Tgt Ion: 64 Resp: 95

Ion Ratio Lower Upper

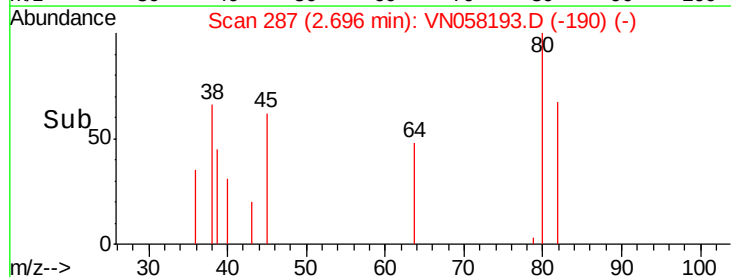
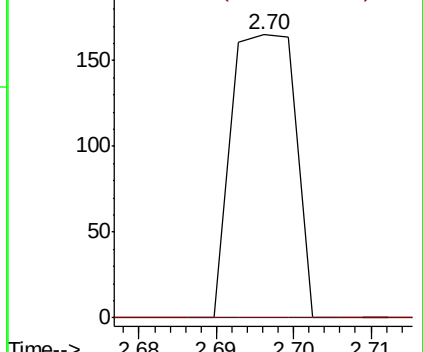
64 100

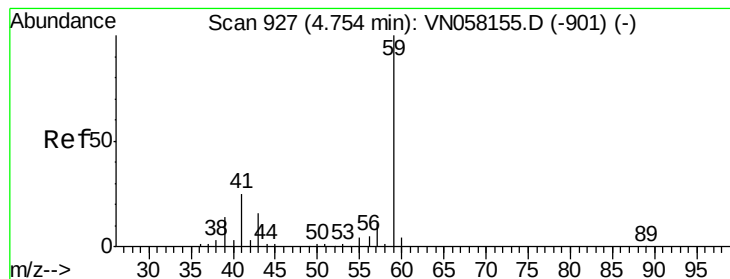
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



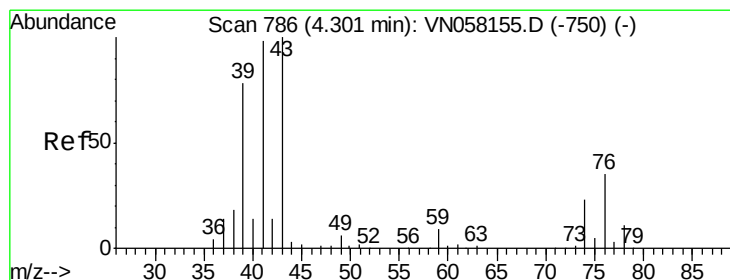
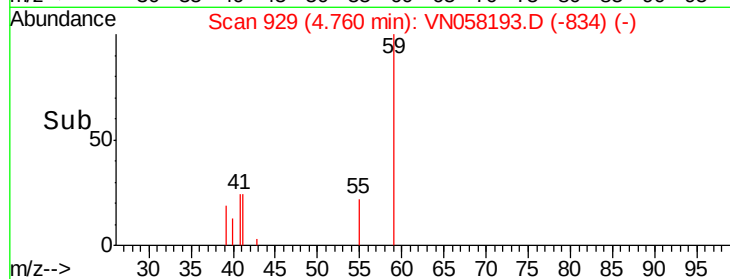
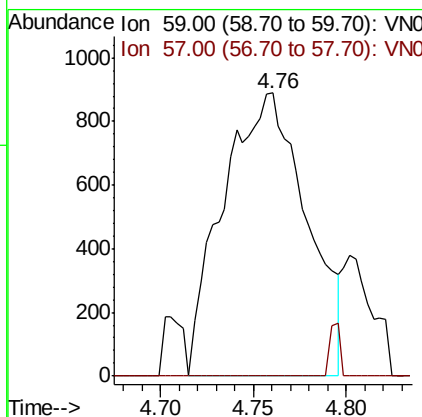
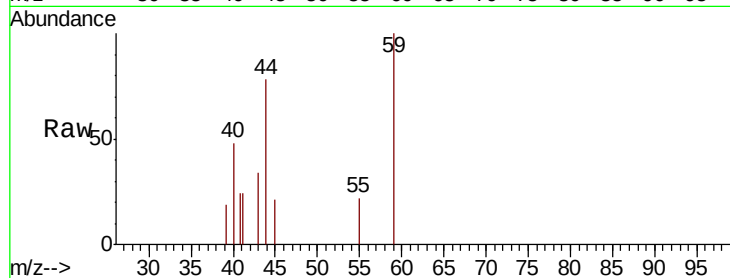


#11

Tert butyl alcohol
 Concen: 3.159 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: VN058193.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_N
 ClientSampleId :

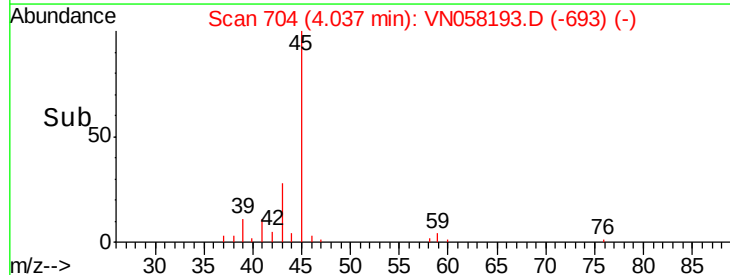
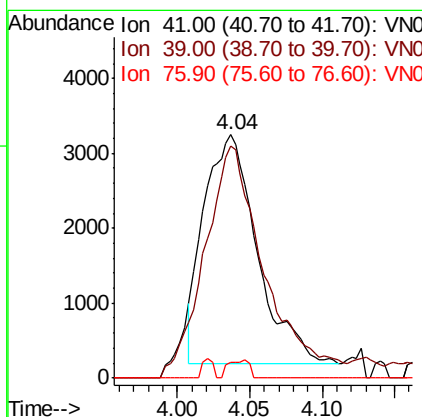
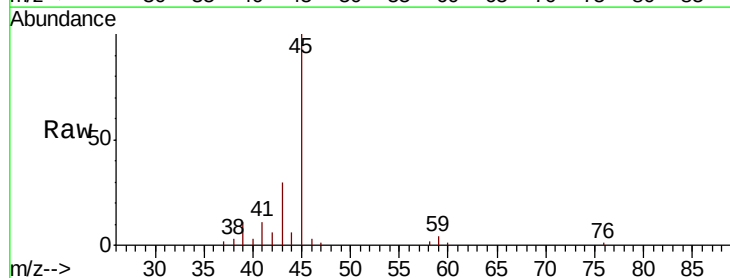
Tot Ion: 59 Resp: 2780
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 13.0#

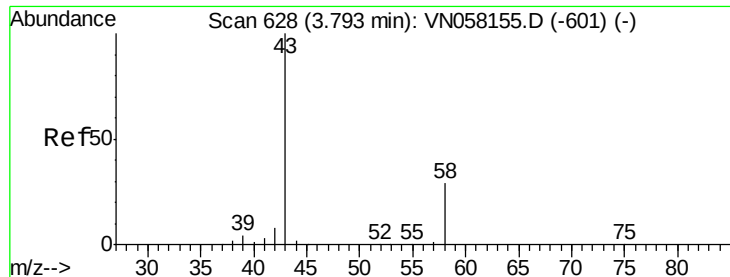


#14

Allyl chloride
 Concen: 1.115 ug/l
 RT: 4.04 min Scan# 704
 Delta R.T. -0.26 min
 Lab File: VN058193.D
 Acq: 19 Sep 2019 10:34

Tgt Ion: 41 Resp: 7834
 Ion Ratio Lower Upper
 41 100
 39 91.2 59.1 88.7#
 76 3.1 25.1 37.7#





#16

Acetone

Concen: 12.128 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

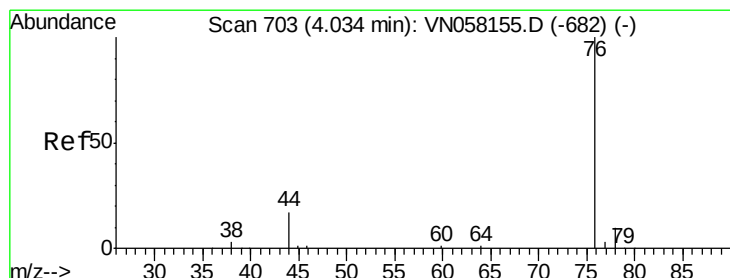
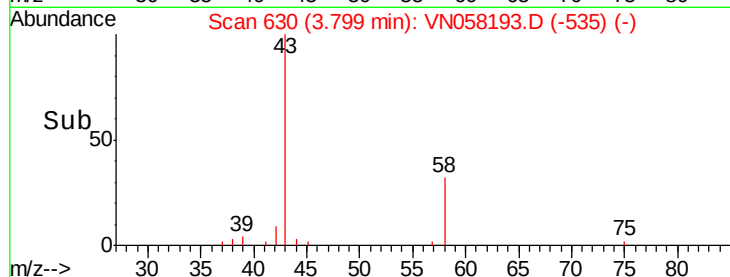
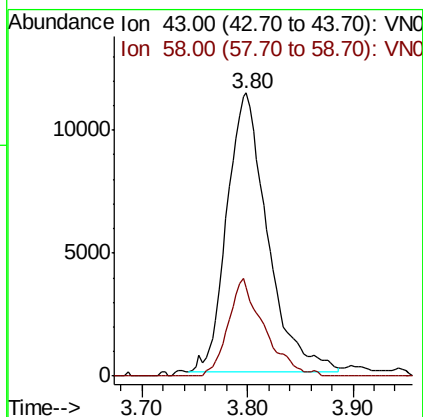
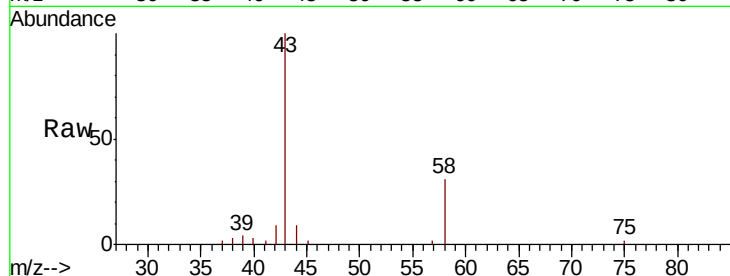
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 30458

Ion Ratio Lower Upper

43 100

58 31.7 23.4 35.2



#17

Carbon Disulfide

Concen: 0.299 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.01 min

Lab File: VN058193.D

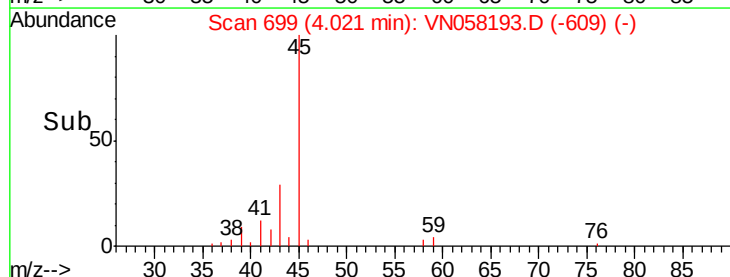
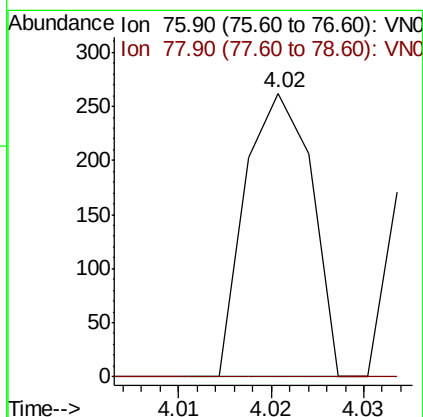
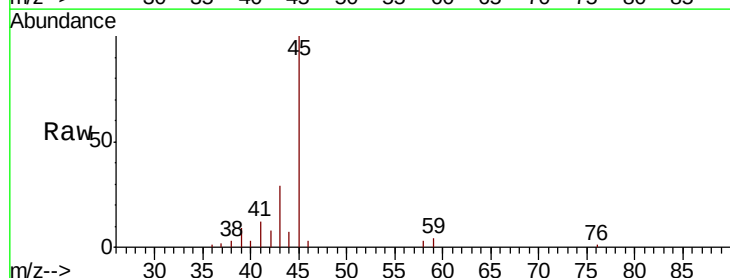
Acq: 19 Sep 2019 10:34

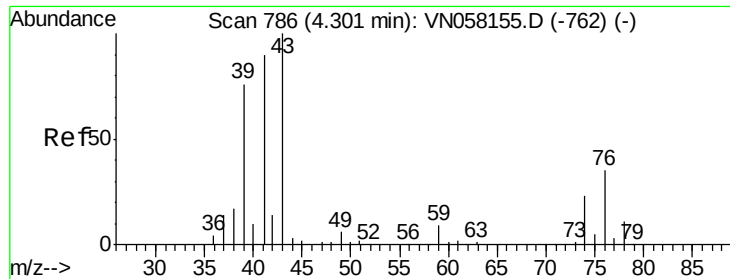
Tgt Ion: 76 Resp: 130

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#

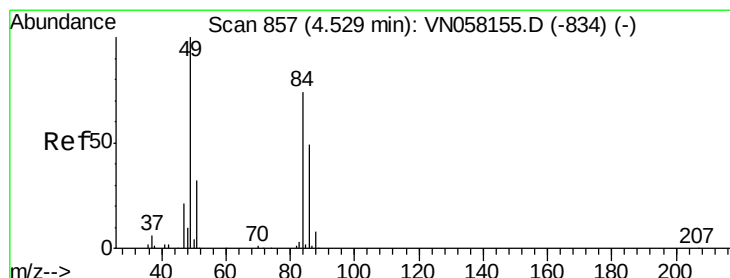
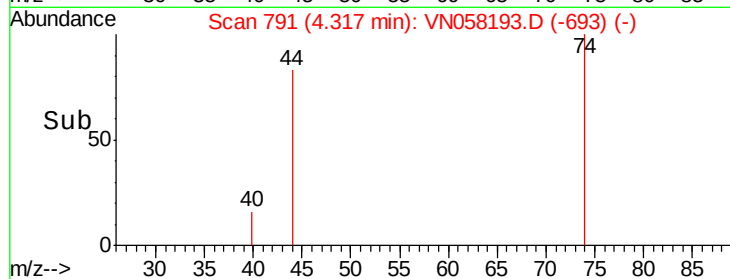
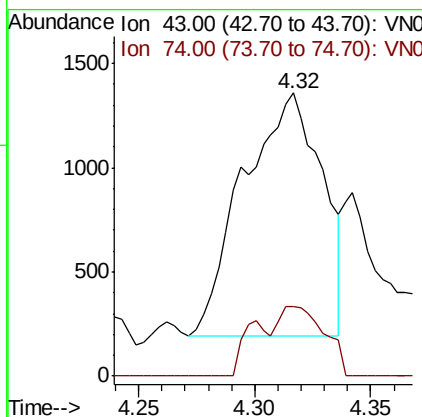
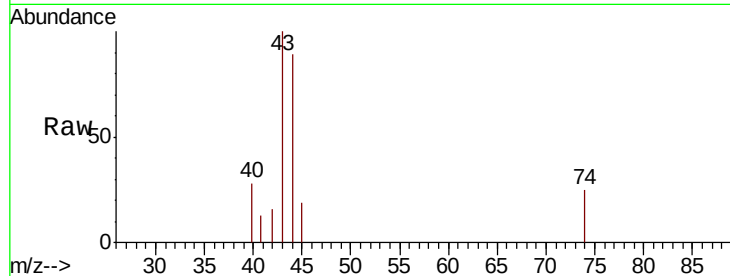




#18
Methyl Acetate
Concen: 0.416 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.02 min
Lab File: VN058193.D
Acq: 19 Sep 2019 10:34

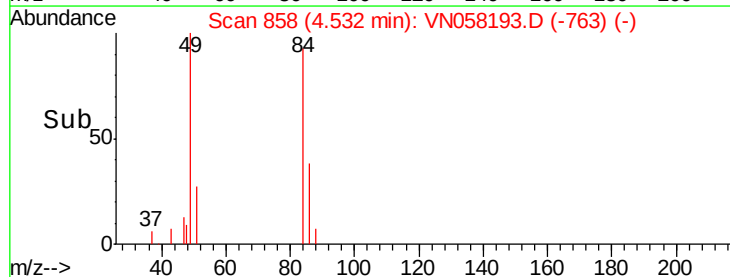
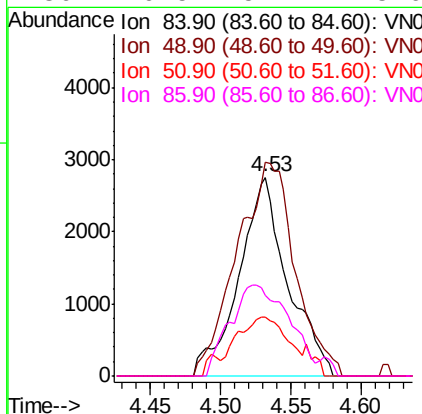
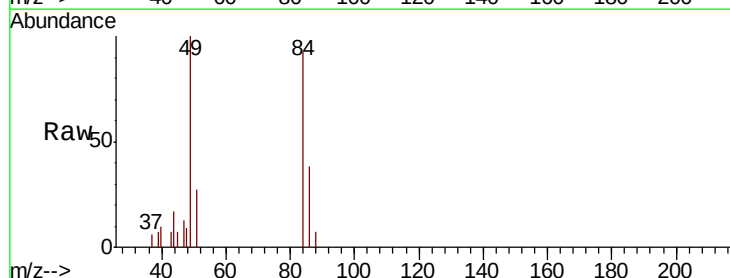
Instrument :
MSVOA_N
ClientSampled :

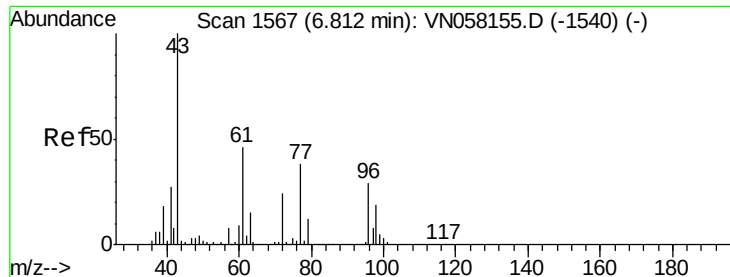
Tot Ion: 43 Resp: 2749
Ion Ratio Lower Upper
43 100
74 16.7 18.0 27.0#



#20
Methylene Chloride
Concen: 1.294 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN058193.D
Acq: 19 Sep 2019 10:34

Tgt Ion: 84 Resp: 6642
Ion Ratio Lower Upper
84 100
49 107.6 107.5 161.3
51 29.4 33.9 50.9#
86 40.5 52.4 78.6#





#25

2-Butanone

Concen: 0.717 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

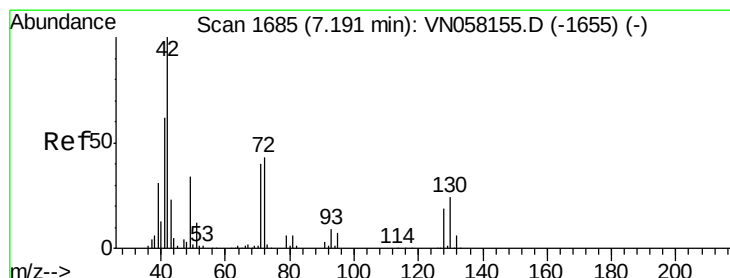
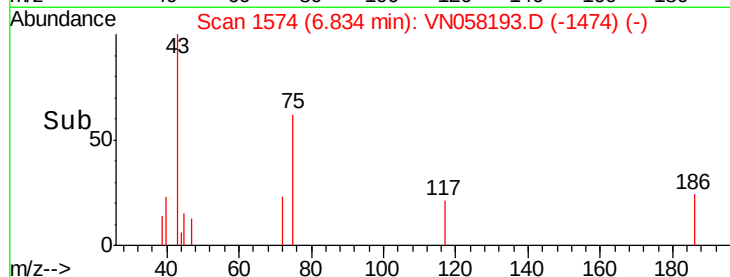
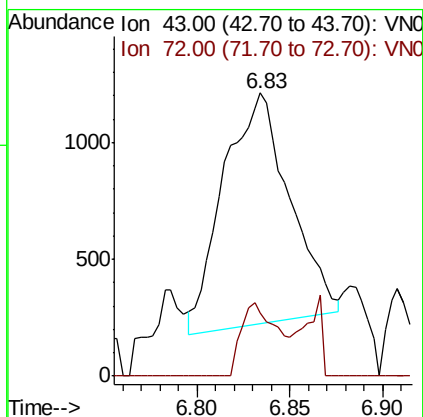
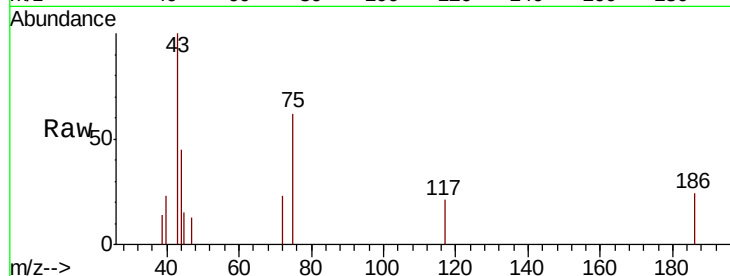
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2452

Ion Ratio Lower Upper

43 100

72 29.2 19.5 29.3



#29

Tetrahydrofuran

Concen: 0.771 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

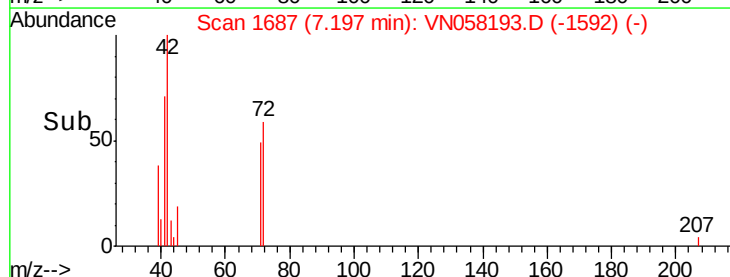
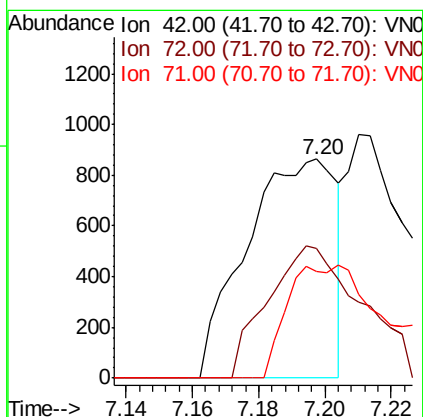
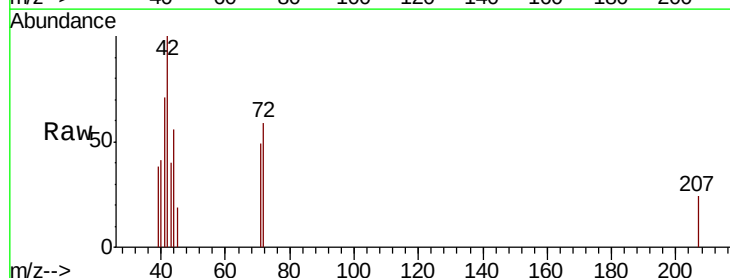
Tgt Ion: 42 Resp: 1625

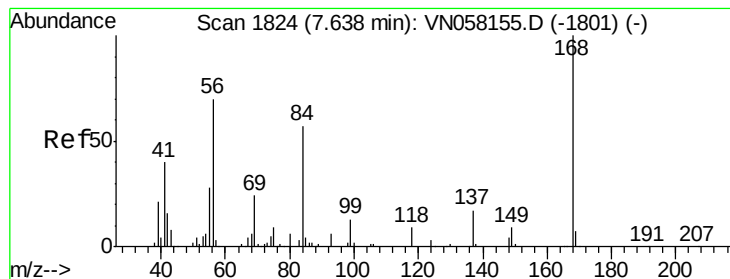
Ion Ratio Lower Upper

42 100

72 63.0 33.8 50.6#

71 50.1 31.4 47.0#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

Instrument :
MSVOA_N
ClientSampled :

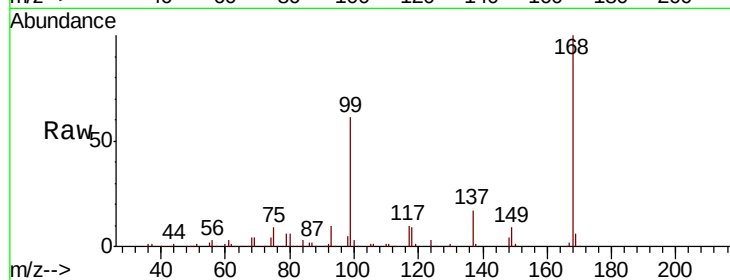
Tot Ion: 56 Resp: 13099

Ion Ratio Lower Upper

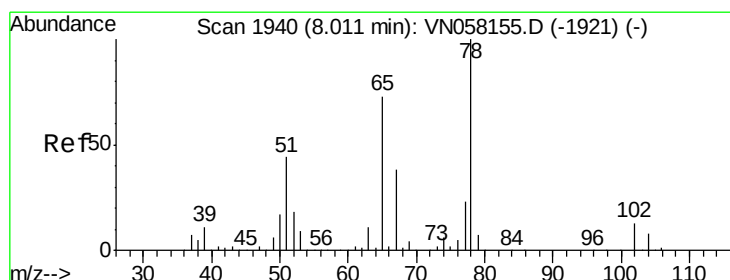
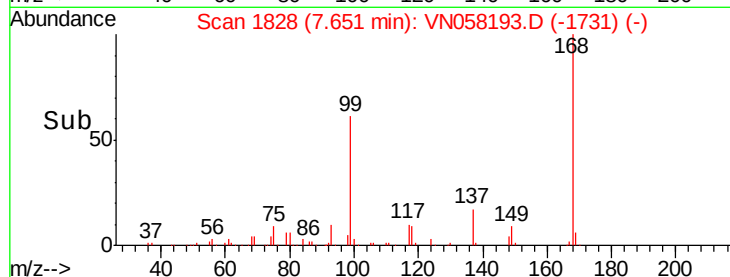
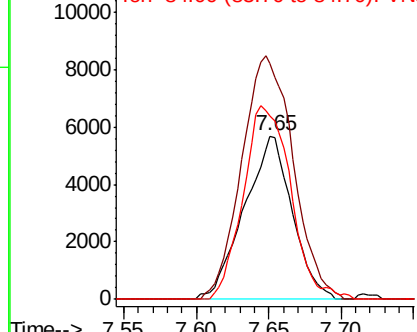
56 100

69 144.4 27.3 40.9#

84 112.3 65.0 97.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#33

1,2-Dichloroethane-d4

Concen: 48.332 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058193.D

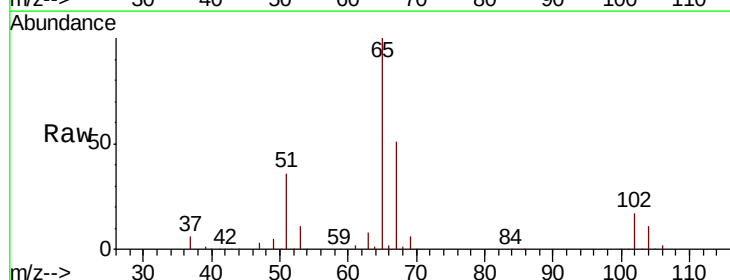
Acq: 19 Sep 2019 10:34

Tgt Ion: 65 Resp: 357599

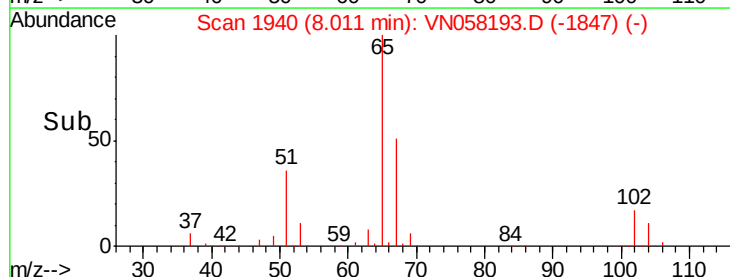
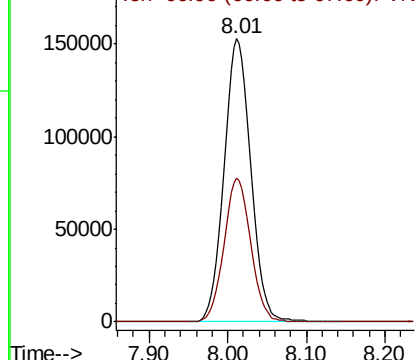
Ion Ratio Lower Upper

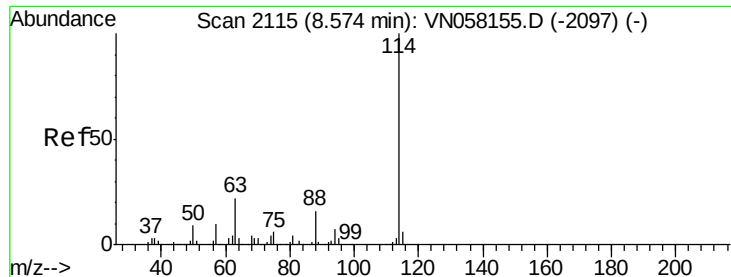
65 100

67 50.6 0.0 103.4



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

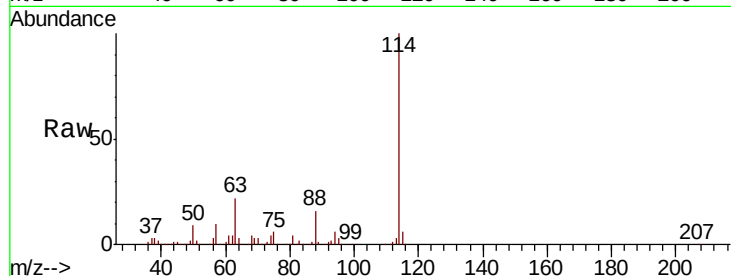




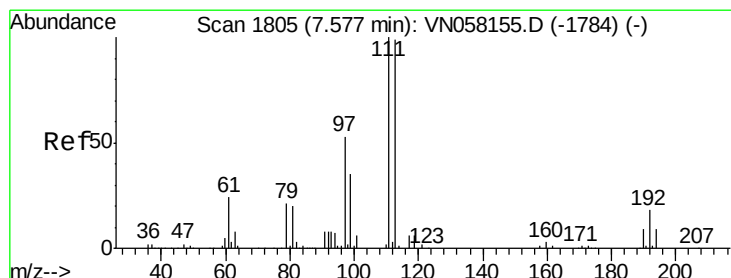
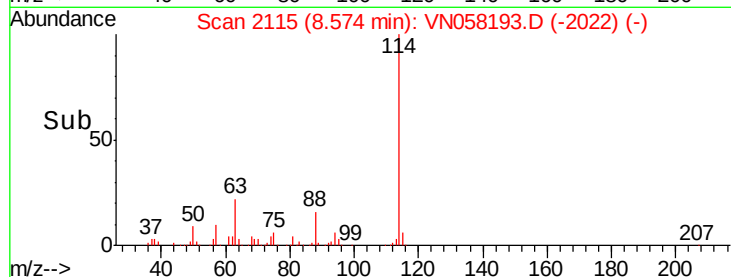
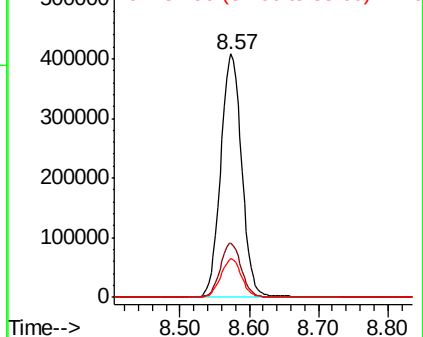
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058193.D
 Acq: 19 Sep 2019 10:34

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.2
88	15.9	0.0	31.6

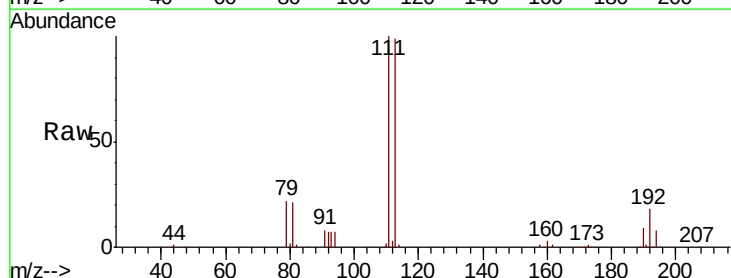


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

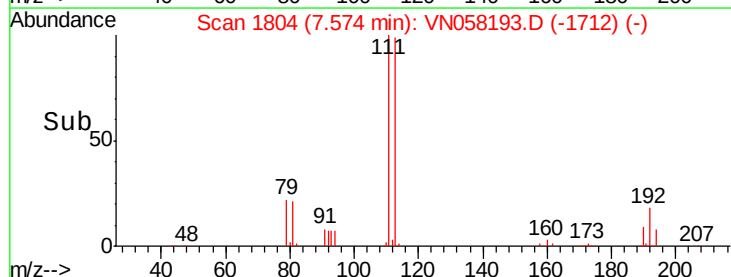
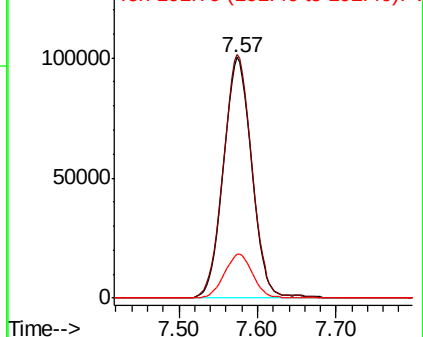


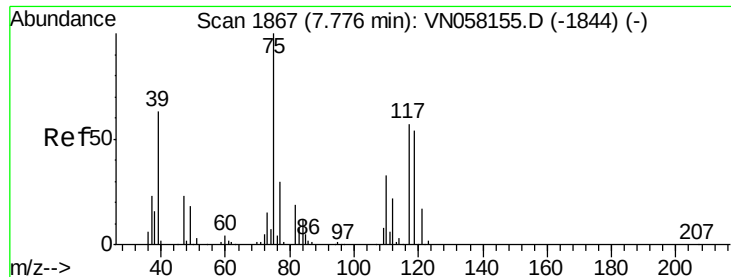
#35
 Dibromofluoromethane
 Concen: 47.390 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058193.D
 Acq: 19 Sep 2019 10:34

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.8	122.6
192	18.3	14.5	21.7



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

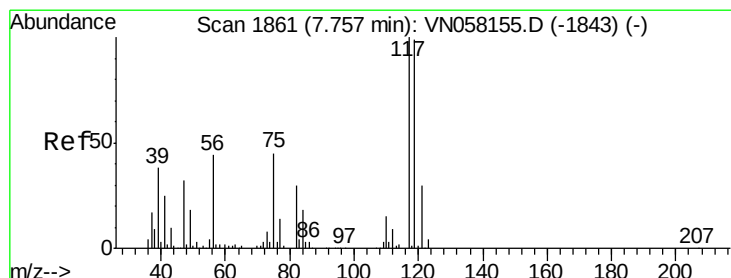
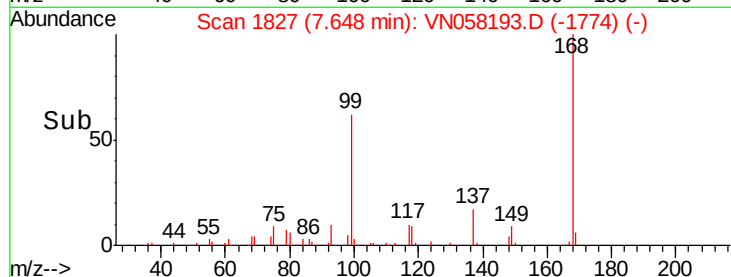
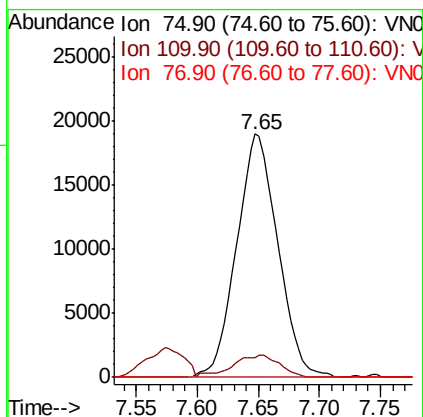
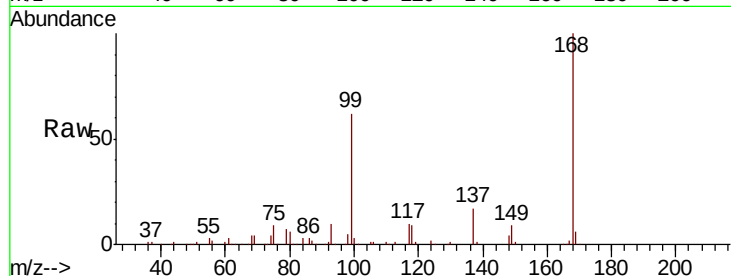




#36
 1,1-Dichloropropene
 Concen: 7.113 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058193.D
 Acq: 19 Sep 2019 10:34

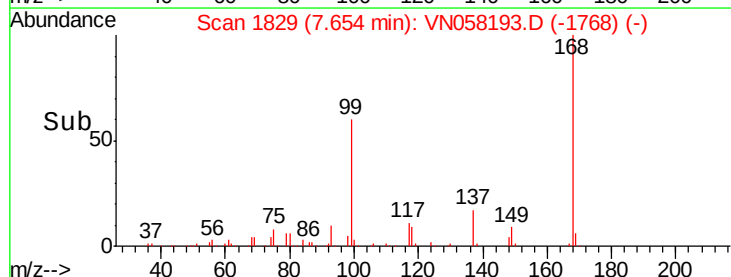
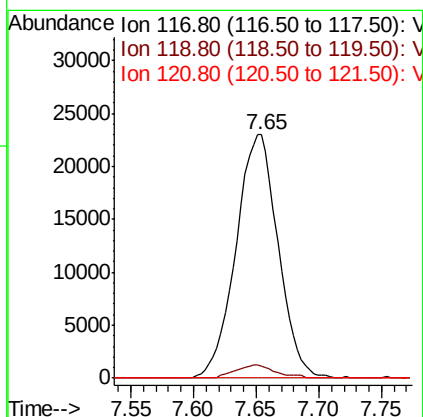
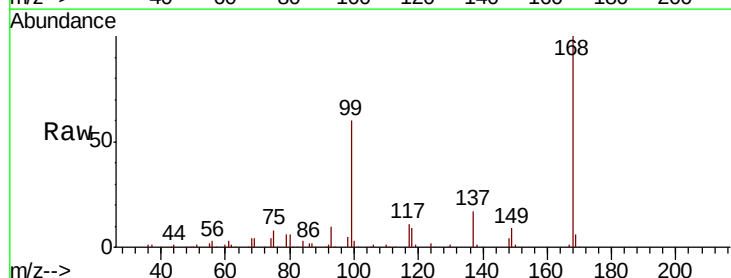
Instrument :
 MSVOA_N
 ClientSampled :

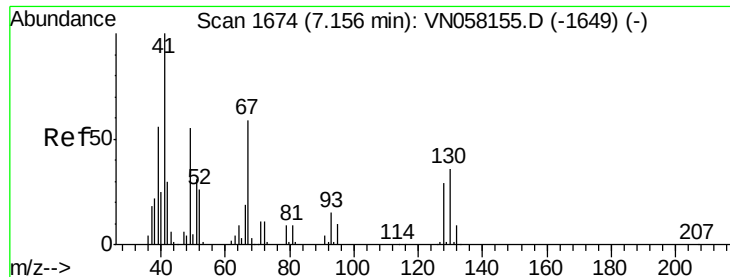
Tot Ion: 75 Resp: 44246
 Ion Ratio Lower Upper
 75 100
 110 10.2 16.6 49.7#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 8.594 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN058193.D
 Acq: 19 Sep 2019 10:34

Tgt Ion: 117 Resp: 53737
 Ion Ratio Lower Upper
 117 100
 119 5.1 78.6 117.8#
 121 0.0 24.1 36.1#

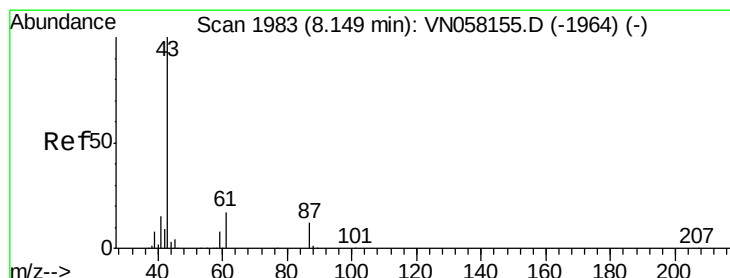
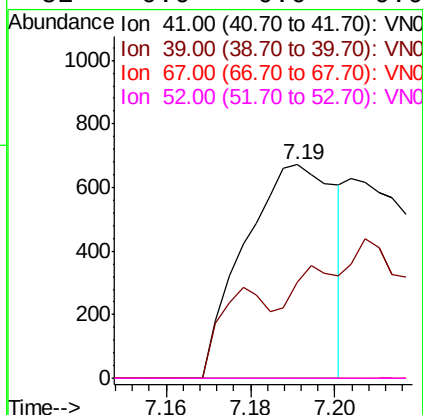
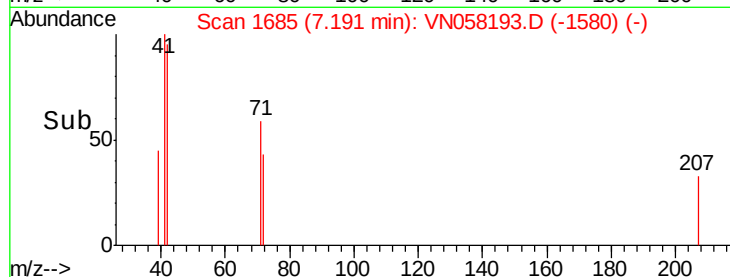
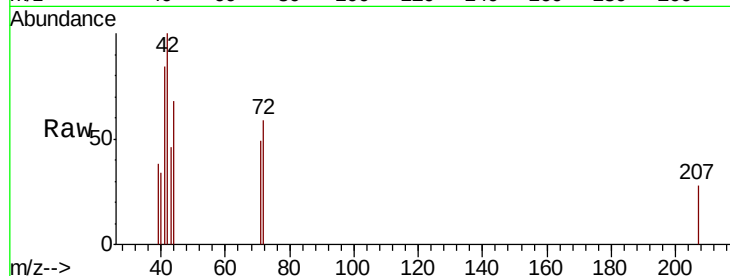




#41
Methacrylonitrile
Concen: 1.213 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.04 min
Lab File: VN058193.D
Acq: 19 Sep 2019 10:34

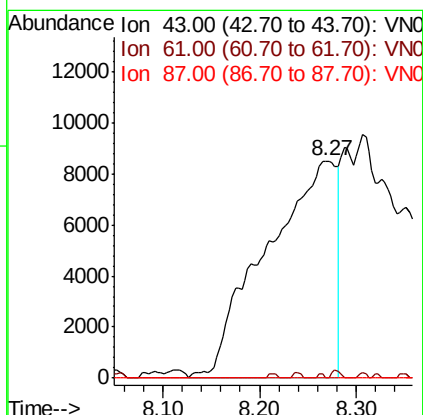
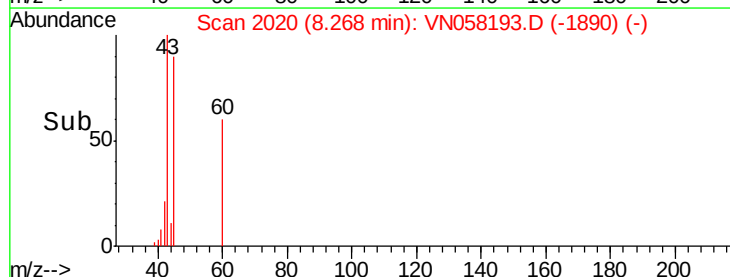
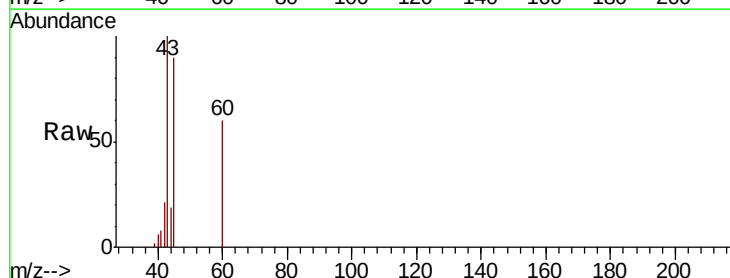
Instrument :
MSVOA_N
ClientSampled :

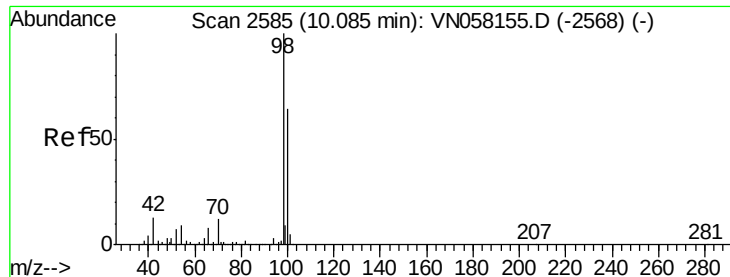
Tot Ion:	41	Resp:	999
Ion	Ratio	Lower	Upper
41	100		
39	22.6	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 3.568 ug/l
RT: 8.27 min Scan# 2020
Delta R.T. 0.12 min
Lab File: VN058193.D
Acq: 19 Sep 2019 10:34

Tgt Ion:	43	Resp:	43016
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#50

Toluene-d8

Concen: 49.517 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_N

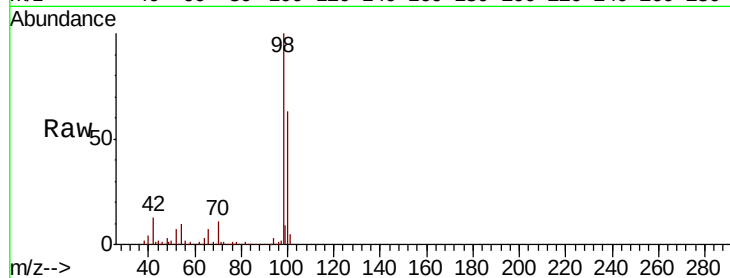
ClientSampled :

Tot Ion: 98 Resp: 1011676

Ion Ratio Lower Upper

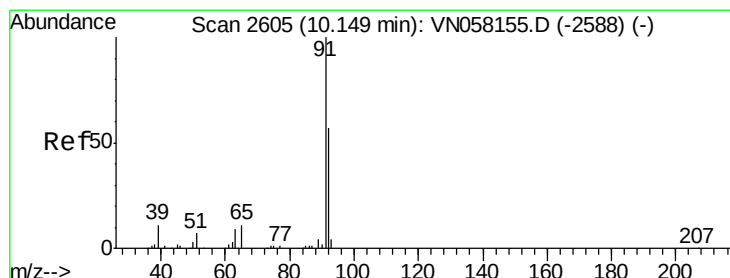
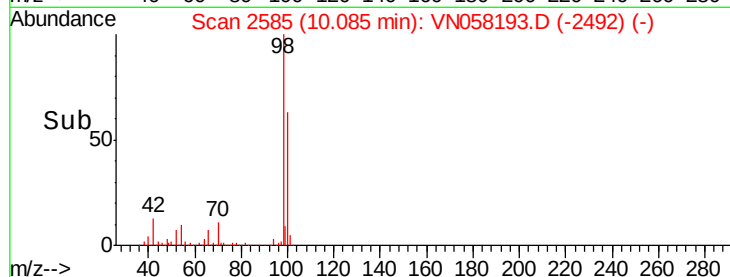
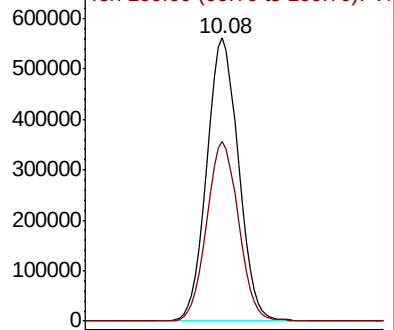
98 100

100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#52

Toluene

Concen: 1.522 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058193.D

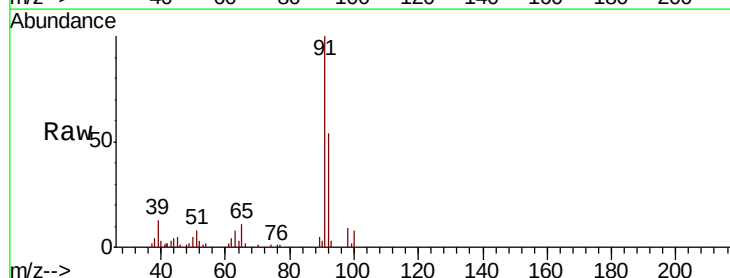
Acq: 19 Sep 2019 10:34

Tgt Ion: 92 Resp: 18117

Ion Ratio Lower Upper

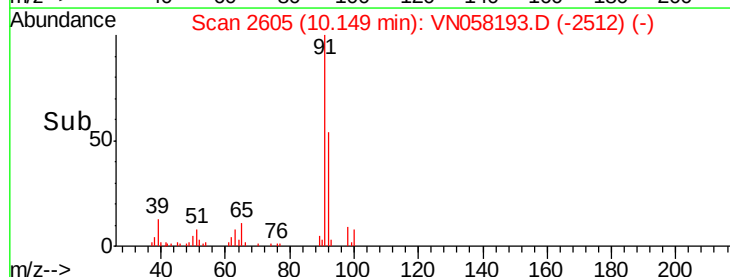
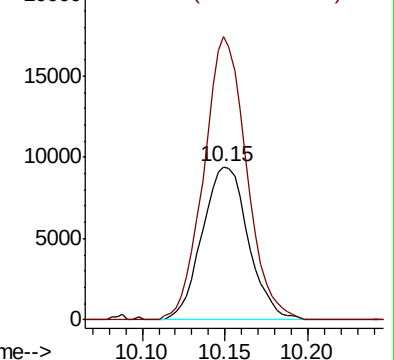
92 100

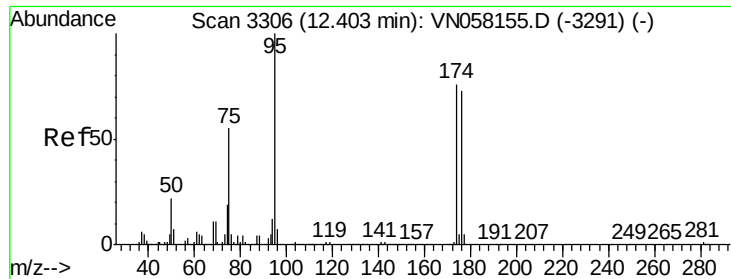
91 172.5 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

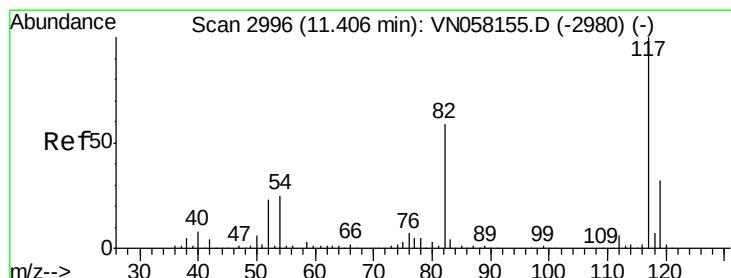
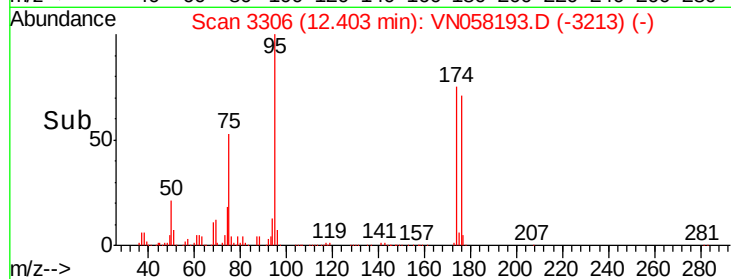
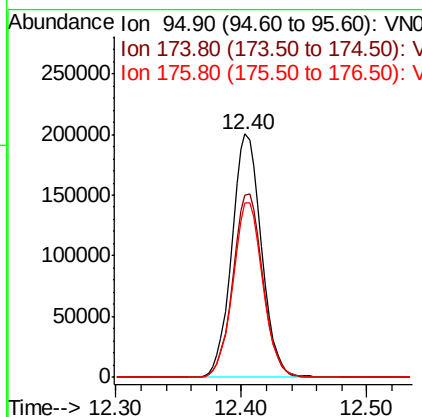
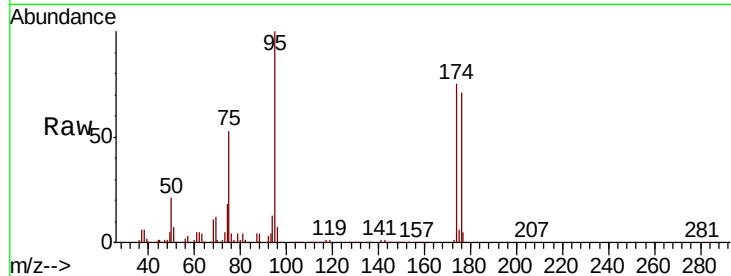




#62
4-Bromofluorobenzene
Concen: 43.248 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058193.D
Acq: 19 Sep 2019 10:34

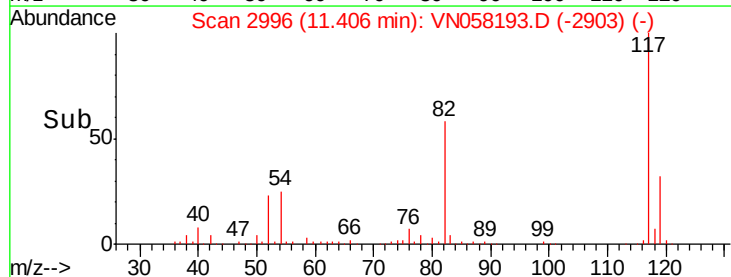
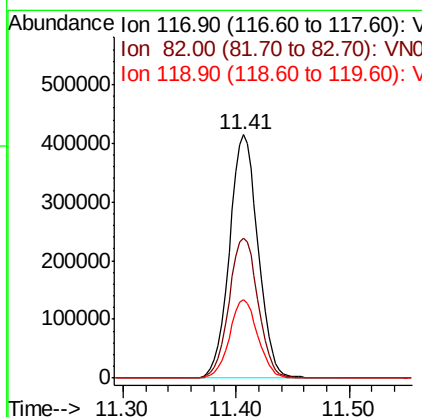
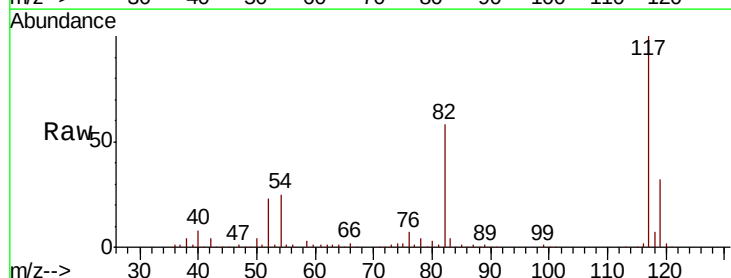
Instrument :
MSVOA_N
ClientSampled :

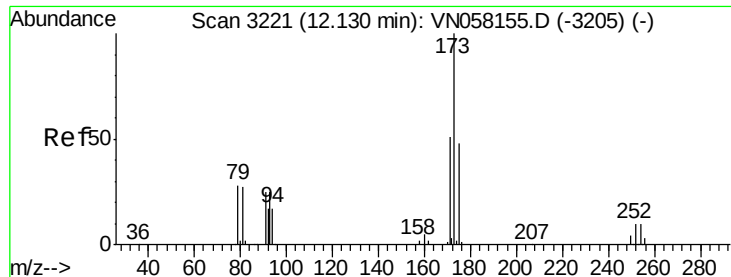
Tot Ion: 95 Resp: 328220
Ion Ratio Lower Upper
95 100
174 76.1 0.0 152.2
176 72.6 0.0 148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058193.D
Acq: 19 Sep 2019 10:34

Tgt Ion: 117 Resp: 726256
Ion Ratio Lower Upper
117 100
82 57.7 46.9 70.3
119 32.1 25.3 37.9





#71

Bromoform

Concen: 4.205 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_N

ClientSampleId :

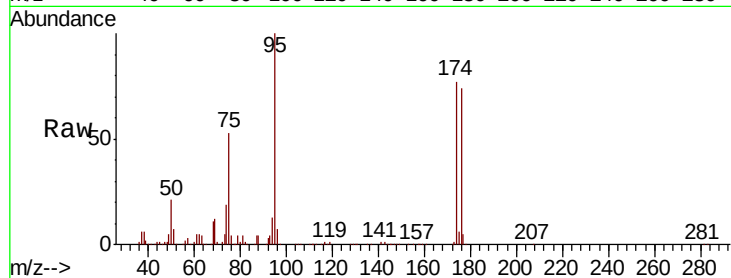
Tot Ion:173 Resp: 2258

Ion Ratio Lower Upper

173 100

175 717.1 24.2 72.6#

254 0.0 0.1 0.1#

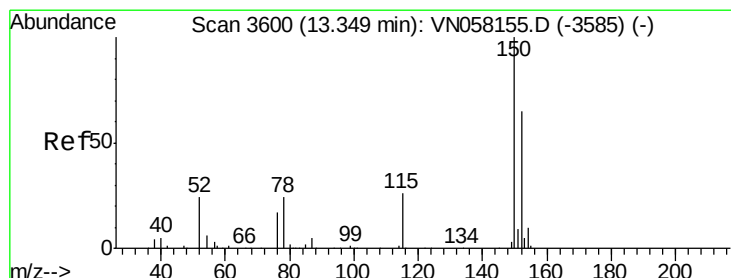
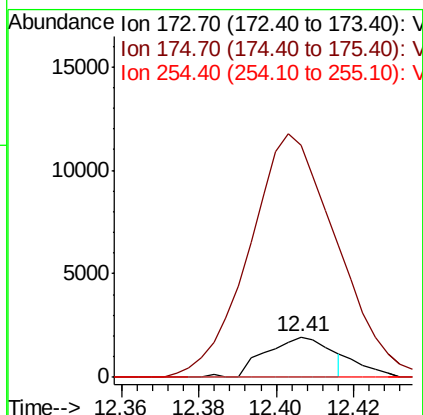
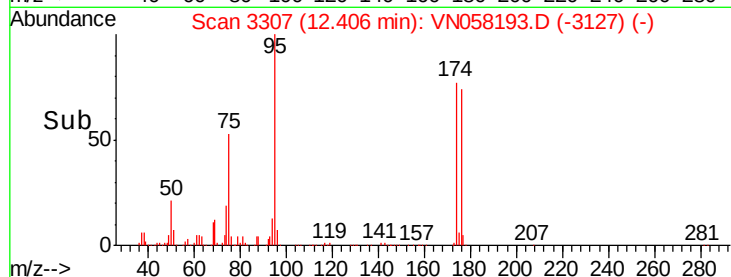


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

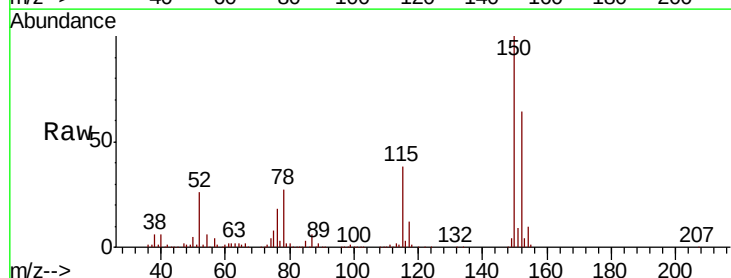
Tgt Ion:152 Resp: 301036

Ion Ratio Lower Upper

152 100

115 60.8 30.1 90.3

150 158.8 0.0 346.4

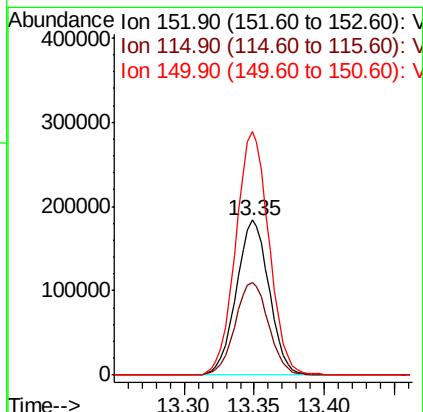
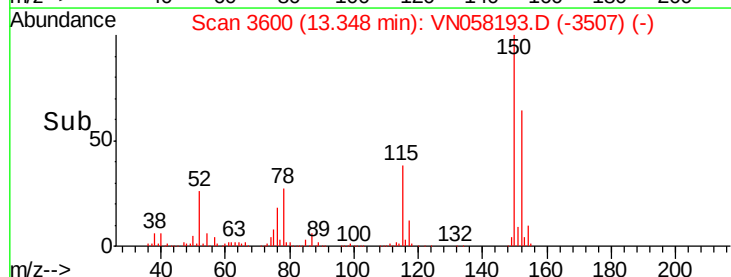


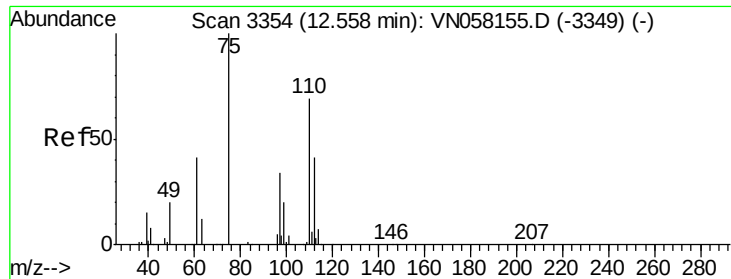
Abundance

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





#76

1,2,3-Trichloropropane

Concen: 32.936 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

Instrument :

MSVOA_N

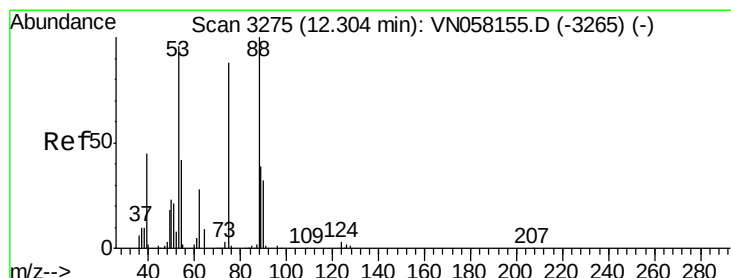
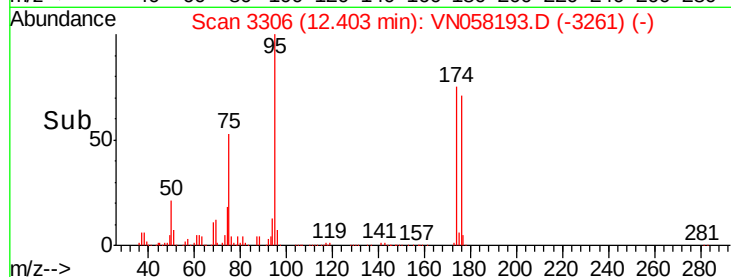
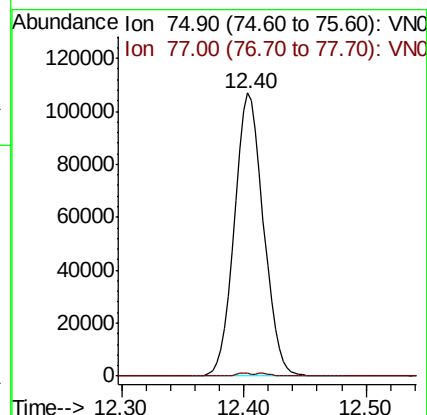
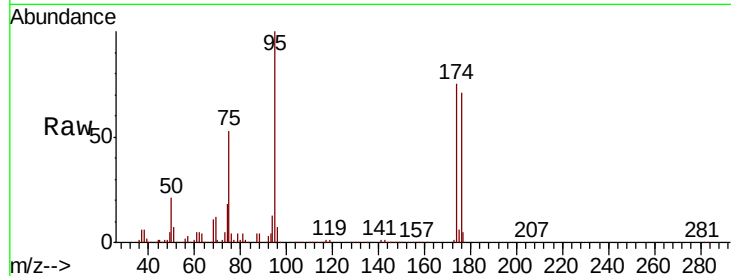
ClientSampleId :

Tot Ion: 75 Resp: 177445

Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 92.474 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058193.D

Acq: 19 Sep 2019 10:34

Tgt Ion: 75 Resp: 177445

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#

