

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058568.D
 Acq On : 7 Oct 2019 16:02
 Operator : JC/SP
 Sample : K5197-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 08 14:05:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	499910	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	803109	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	693631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	286217	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	355740	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
35) Dibromofluoromethane	7.57	113	249804	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
50) Toluene-d8	10.08	98	1013657	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
62) 4-Bromofluorobenzene	12.41	95	340880	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	

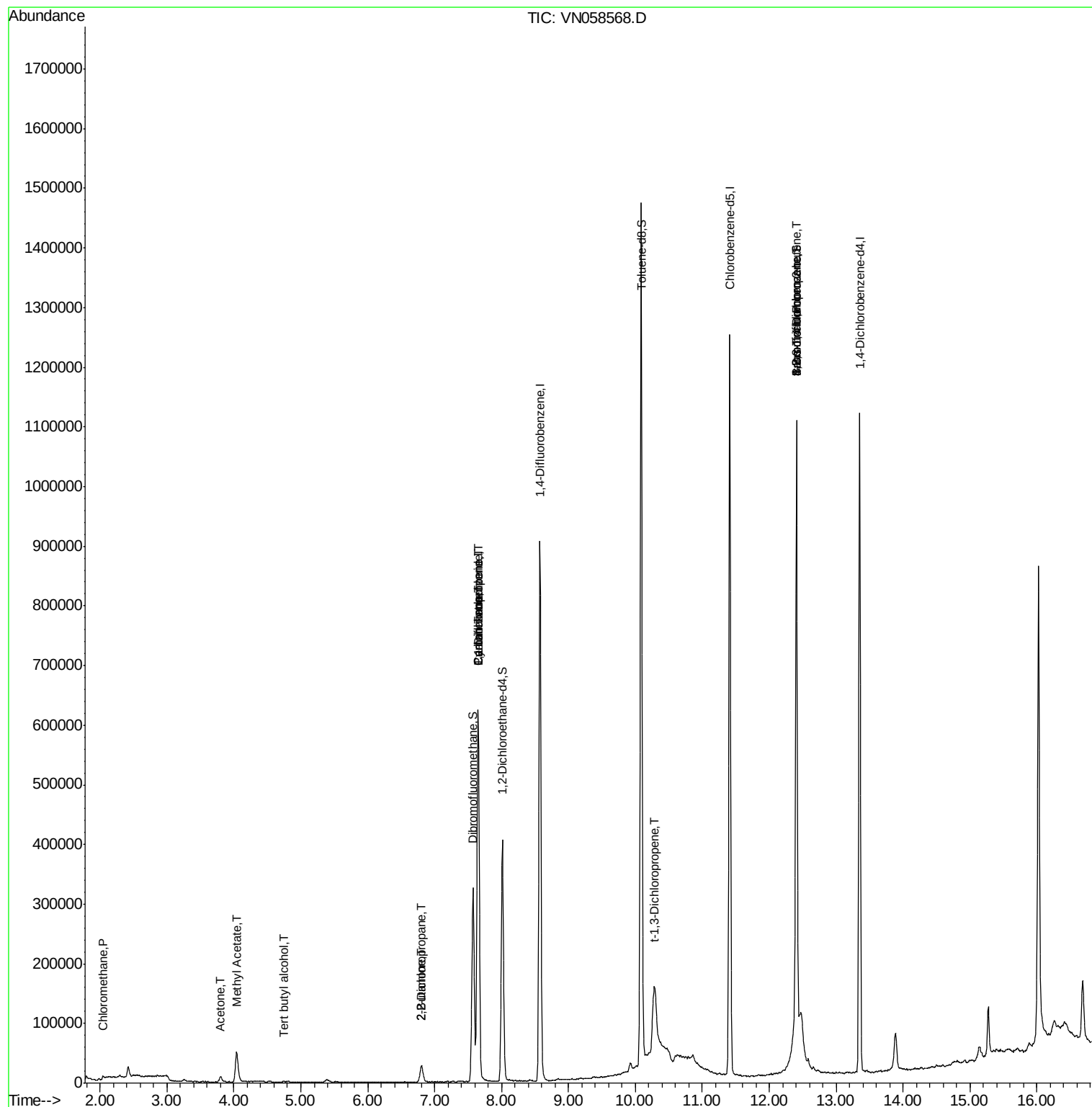
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	4498	0.746	ug/l #	87
11) Tert butyl alcohol	4.74	59	1848	2.277	ug/l #	71
16) Acetone	3.81	43	16572	6.655	ug/l	100
18) Methyl Acetate	4.04	43	19534	3.119	ug/l #	53
25) 2-Butanone	6.81	43	1253	0.366	ug/l #	50
26) 2,2-Dichloropropane	6.80	77	2170	0.254	ug/l #	54
31) Cyclohexane	7.65	56	11607	1.148	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	42274	5.505	ug/l #	46
38) Carbon Tetrachloride	7.65	117	50633	7.305	ug/l #	15
53) t-1,3-Dichloropropene	10.29	75	5603	0.725	ug/l #	1
60) Dibromochloromethane	10.63	129	686	Below Cal	#	11
71) Bromoform	12.41	173	1864	1.267	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	180225	34.475	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	180225	104.703	ug/l #	7

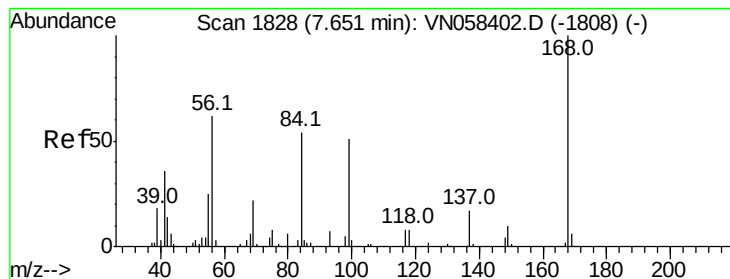
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058568.D

Acq: 7 Oct 2019 16:02

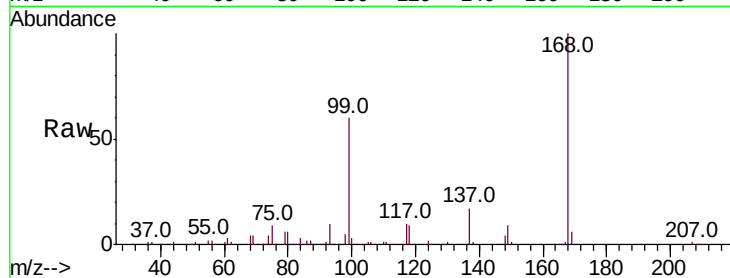
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 499910

Ion Ratio Lower Upper

168 100

99 60.4 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

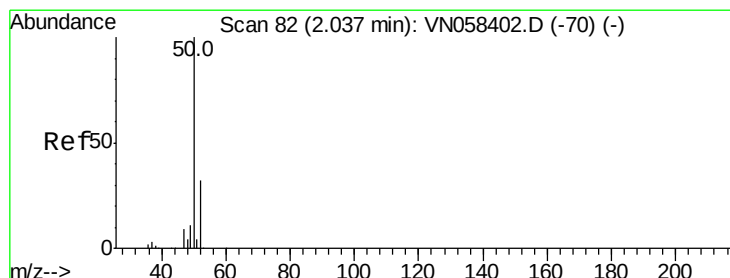
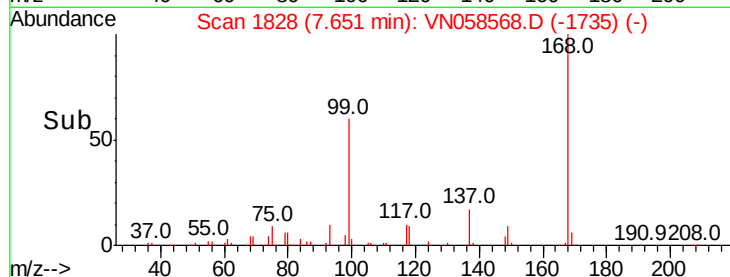
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.746 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058568.D

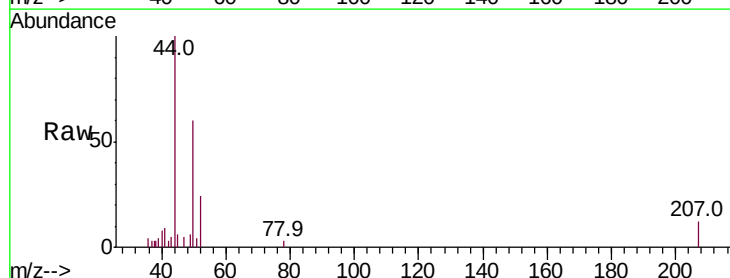
Acq: 7 Oct 2019 16:02

Tgt Ion: 50 Resp: 4498

Ion Ratio Lower Upper

50 100

52 39.8 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

3000

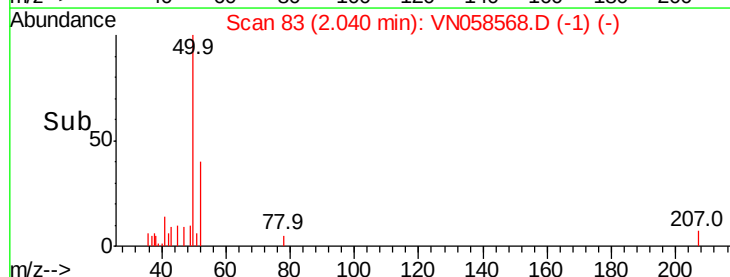
2000

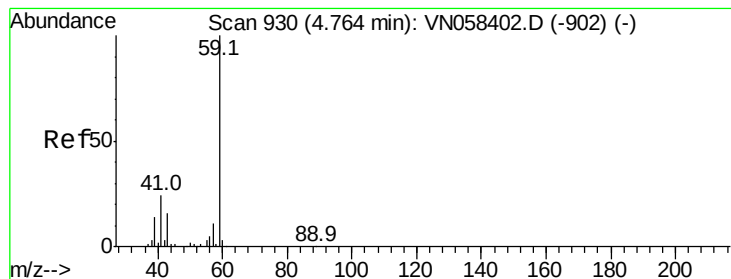
1000

0

2.00 2.05 2.10

Time-->





#11

Tert butyl alcohol

Concen: 2.277 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.02 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

Instrument :

MSVOA_N

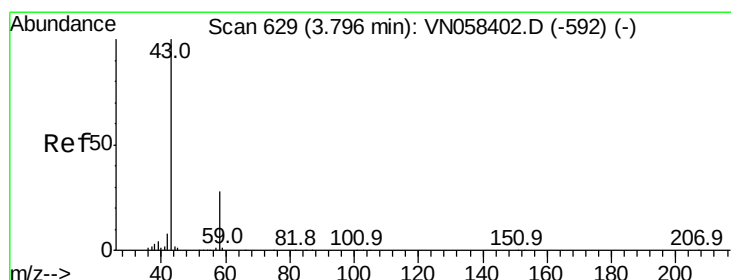
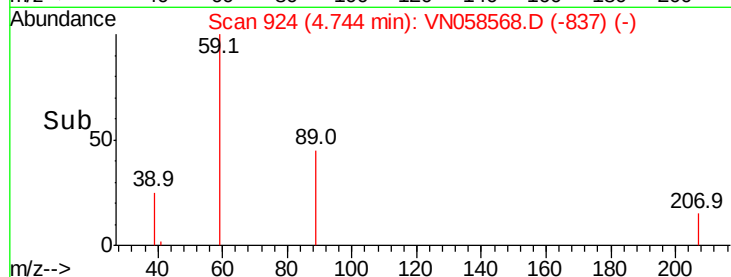
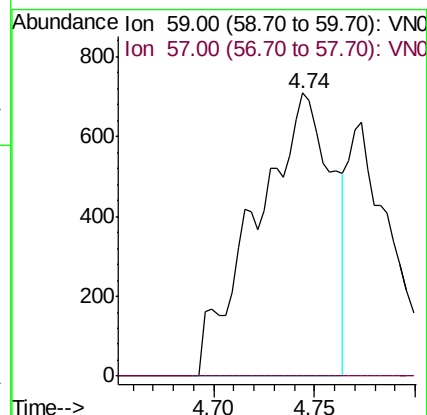
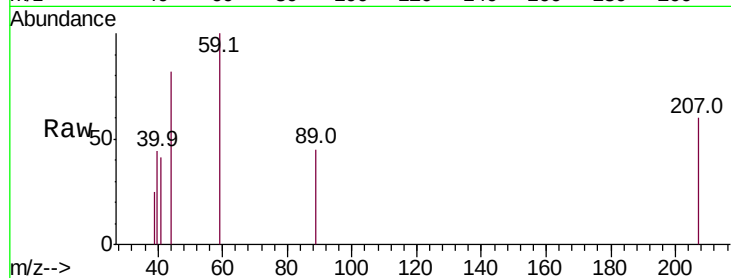
ClientSampled :

Tot Ion: 59 Resp: 1848

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#16

Acetone

Concen: 6.655 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058568.D

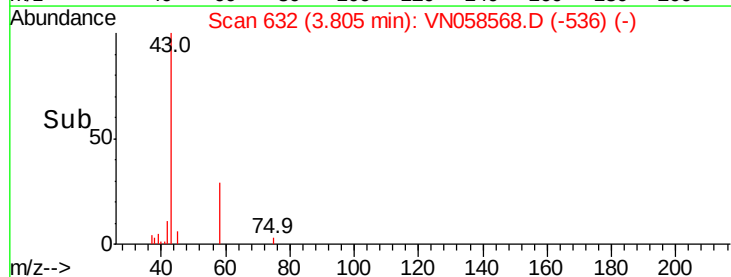
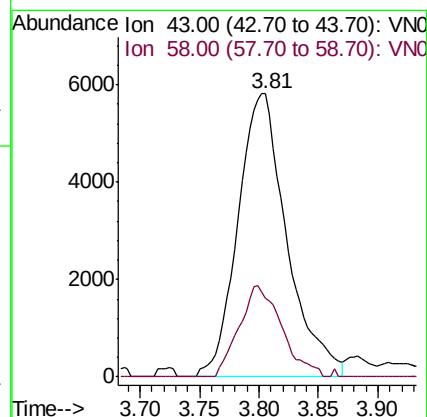
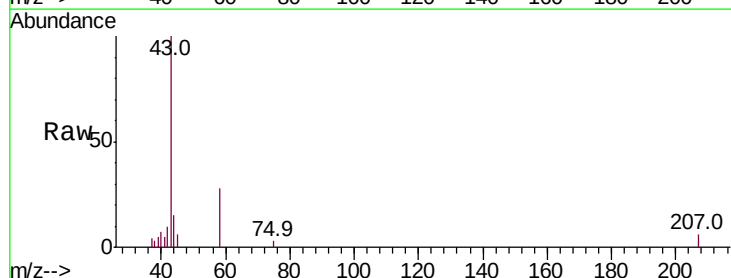
Acq: 7 Oct 2019 16:02

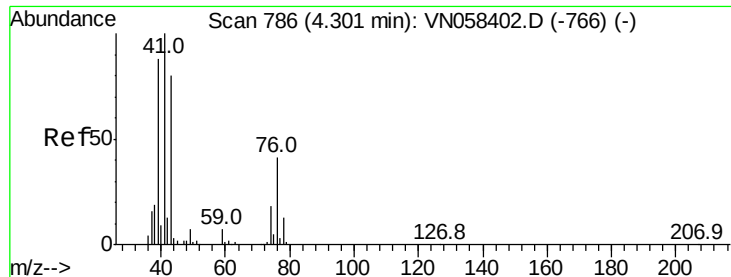
Tgt Ion: 43 Resp: 16572

Ion Ratio Lower Upper

43 100

58 27.9 22.4 33.6

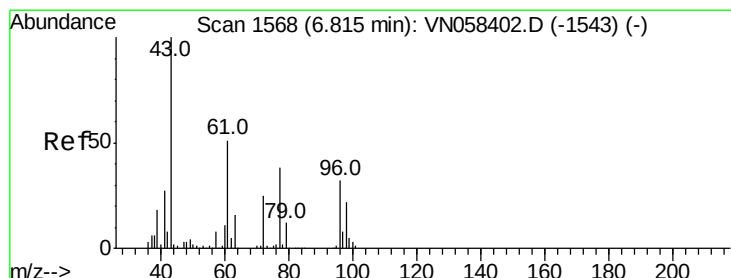
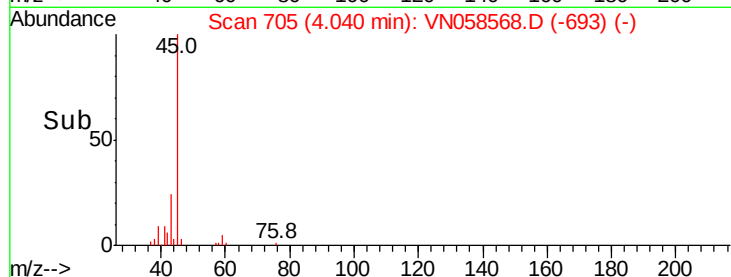
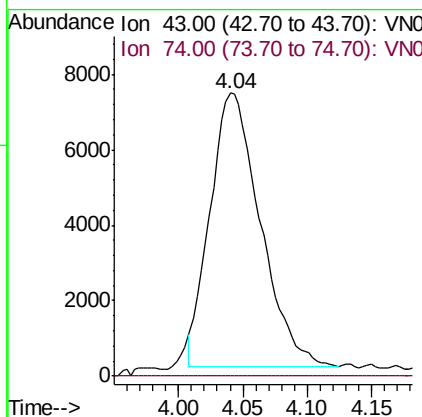
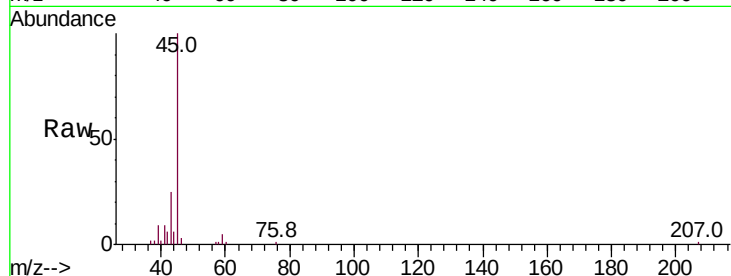




#18
Methvl Acetate
Concen: 3.119 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.26 min
Lab File: VN058568.D
Acq: 7 Oct 2019 16:02

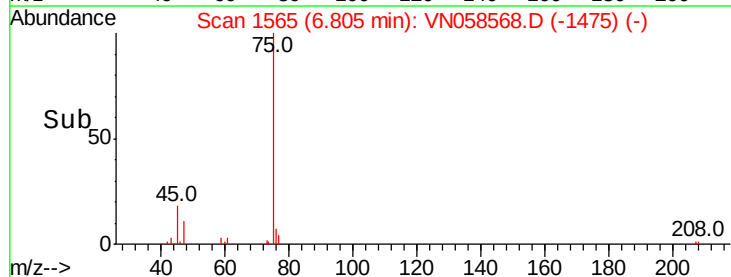
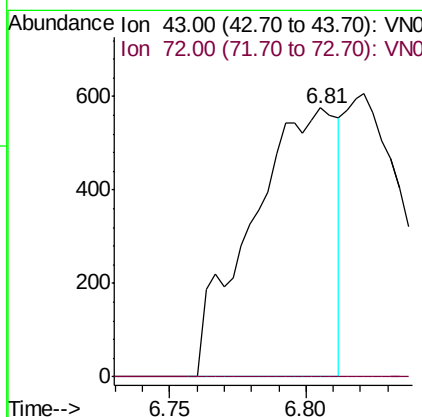
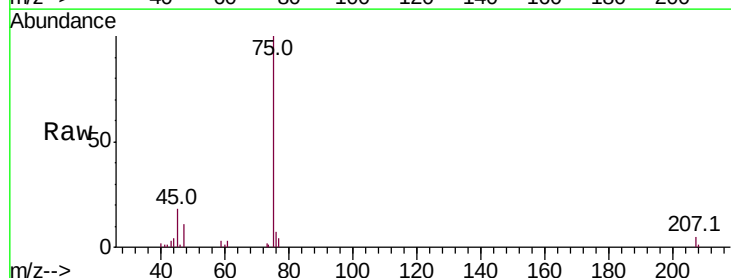
Instrument :
MSVOA_N
ClientSampleId :

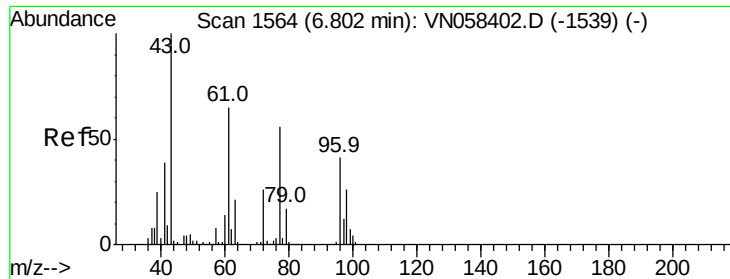
Tot Ion: 43 Resp: 19534
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#25
2-Butanone
Concen: 0.366 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VN058568.D
Acq: 7 Oct 2019 16:02

Tgt Ion: 43 Resp: 1253
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.4#

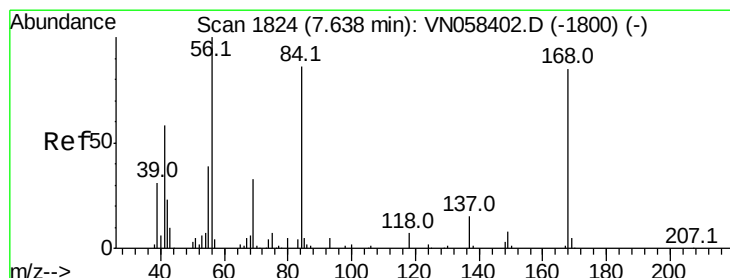
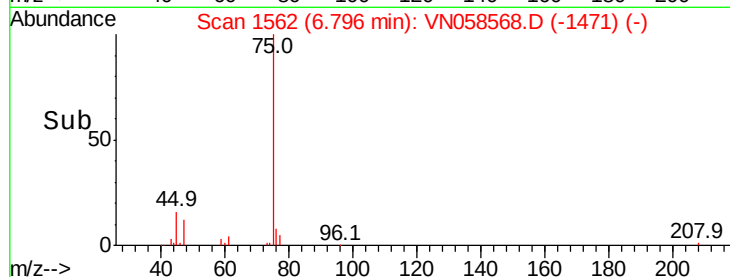
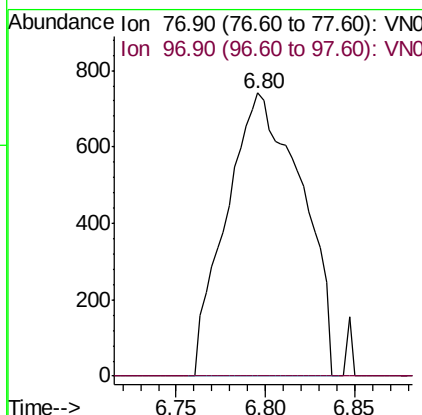
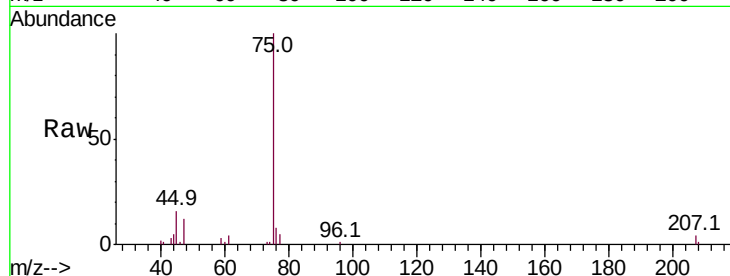




#26
 2,2-Dichloropropane
 Concen: 0.254 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VN058568.D
 Acq: 7 Oct 2019 16:02

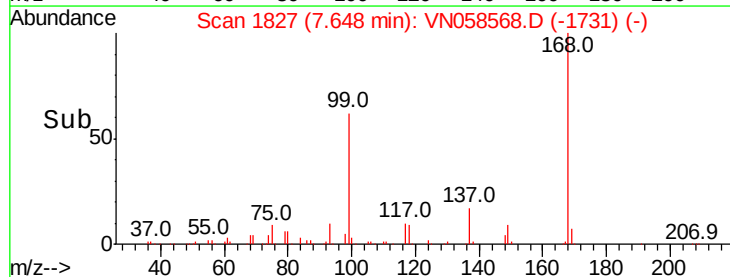
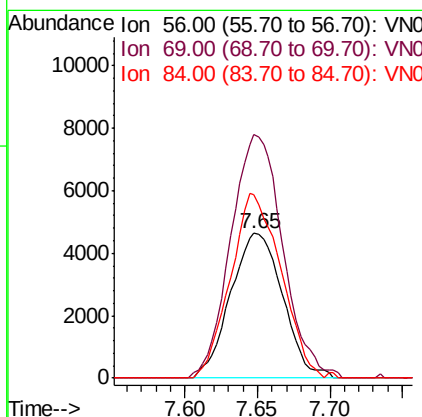
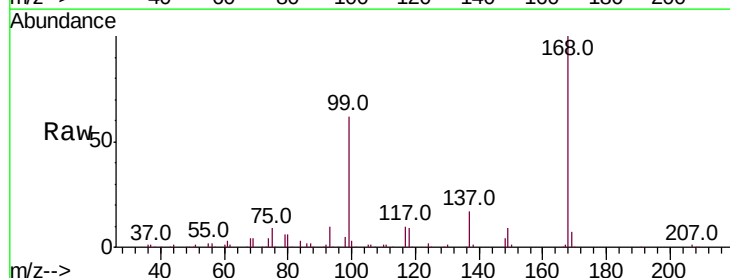
Instrument :
 MSVOA_N
 ClientSampleId :

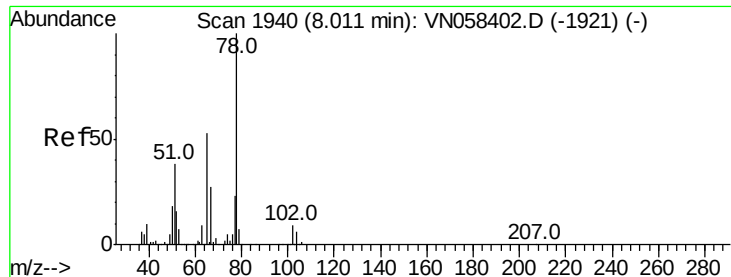
Tot Ion: 77 Resp: 2170
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.9 32.6#



#31
 Cyclohexane
 Concen: 1.148 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VN058568.D
 Acq: 7 Oct 2019 16:02

Tgt Ion: 56 Resp: 11607
 Ion Ratio Lower Upper
 56 100
 69 168.4 26.2 39.4#
 84 126.6 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 48.696 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

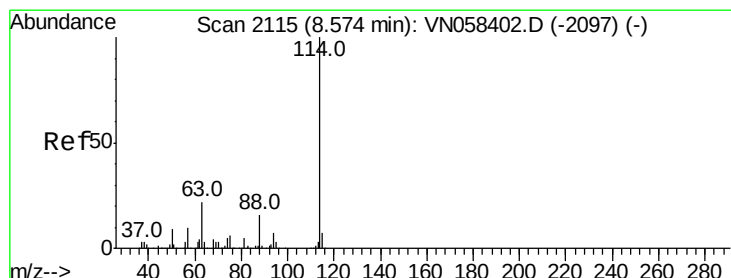
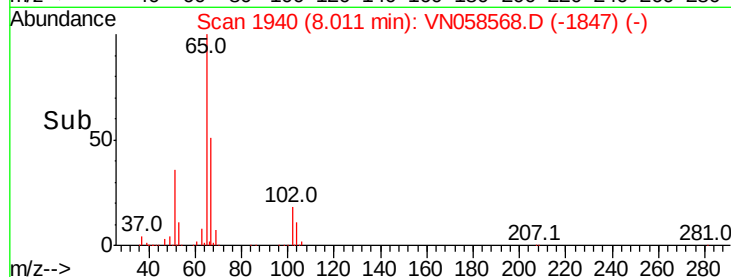
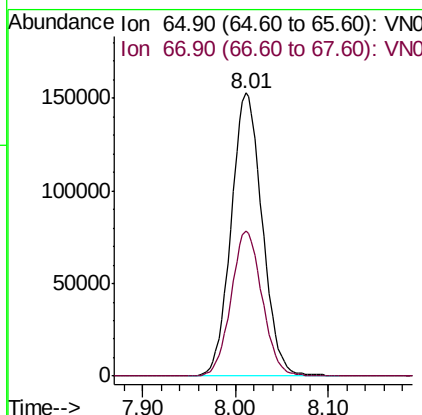
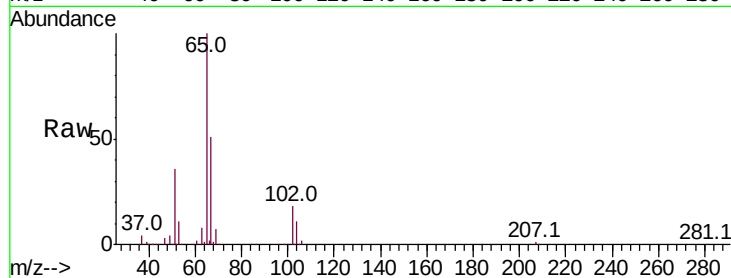
Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 355740

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

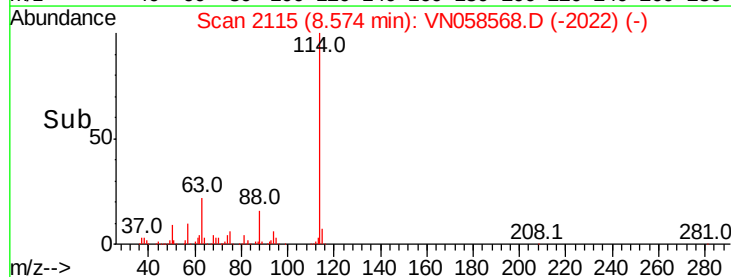
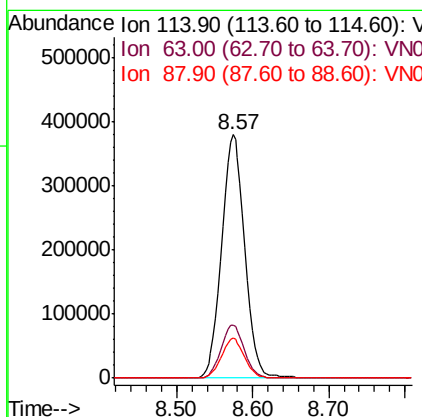
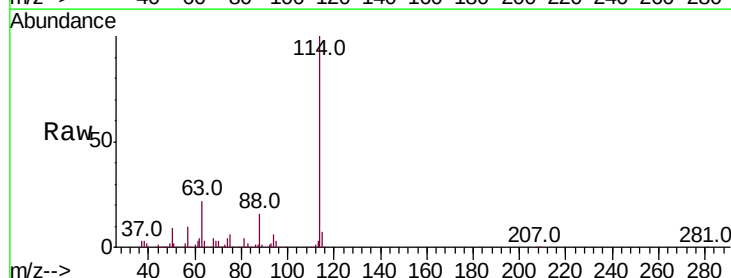
Delta R.T. -0.00 min

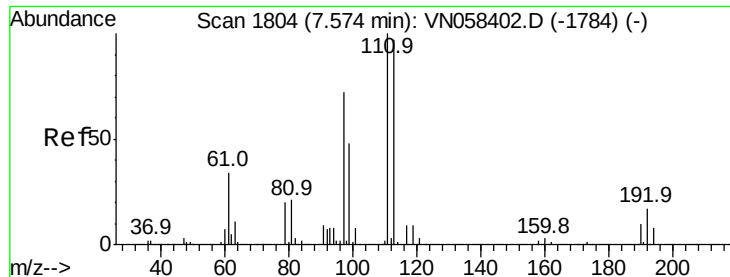
Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

Tgt Ion: 114 Resp: 803109

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	45.0
88	16.3	0.0	32.2





#35

Dibromofluoromethane

Concen: 50.751 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

Instrument :
MSVOA_N
ClientSampled :

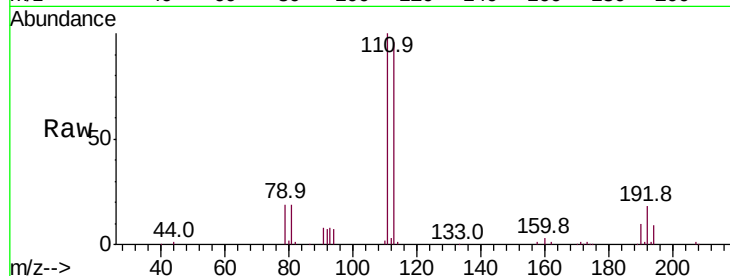
Tot Ion:113 Resp: 249804

Ion Ratio Lower Upper

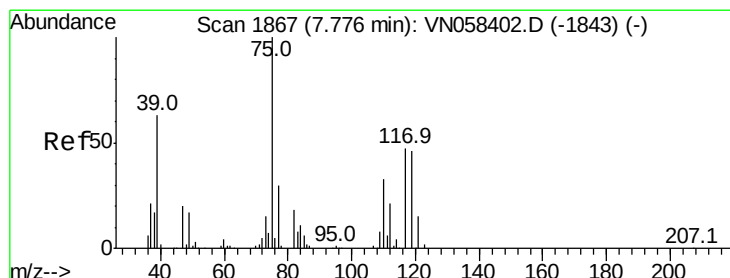
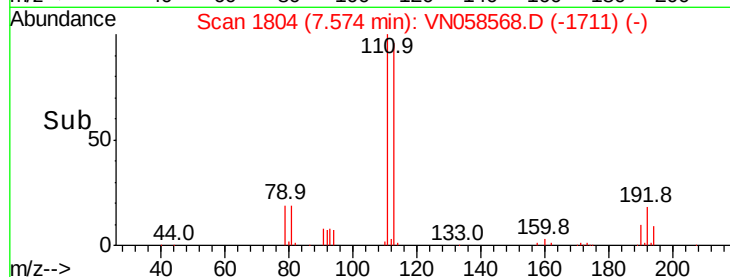
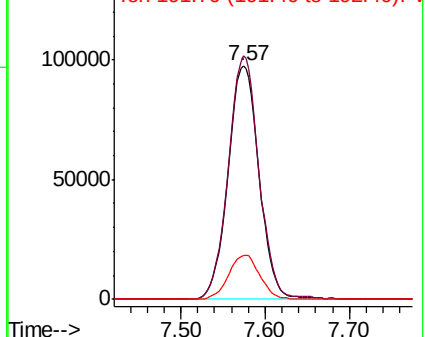
113 100

111 102.3 83.4 125.2

192 19.1 14.9 22.3



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: 5.505 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

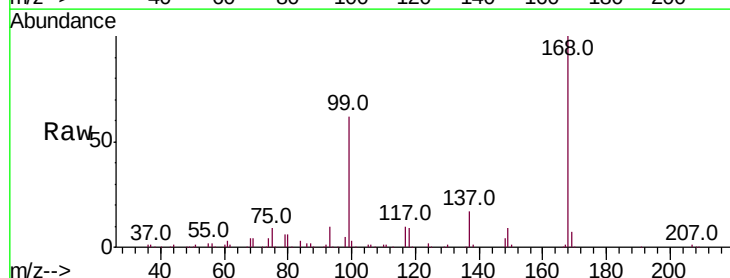
Tgt Ion: 75 Resp: 42274

Ion Ratio Lower Upper

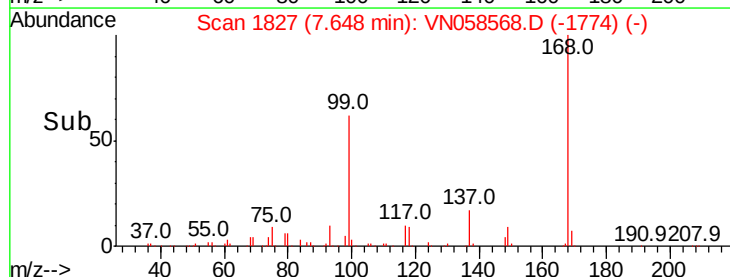
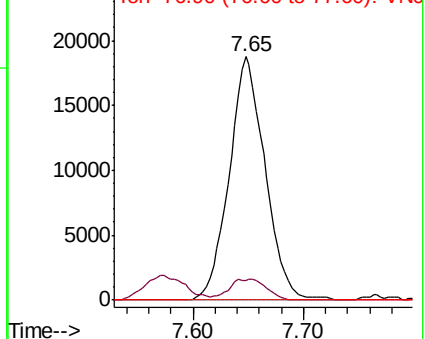
75 100

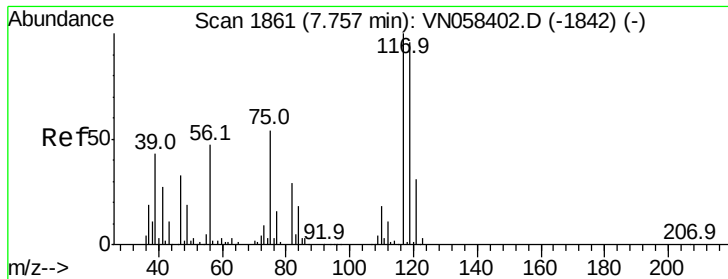
110 3.0 16.4 49.2#

77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 7.305 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

Instrument :
MSVOA_N
ClientSampleId :

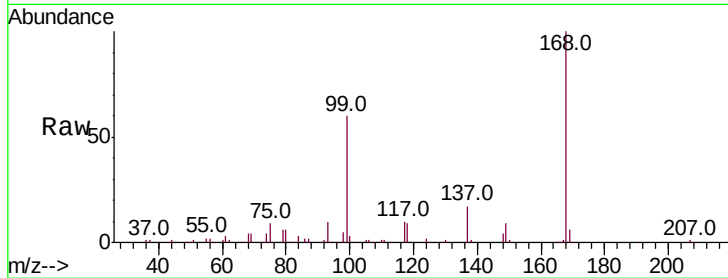
Tot Ion:117 Resp: 50633

Ion Ratio Lower Upper

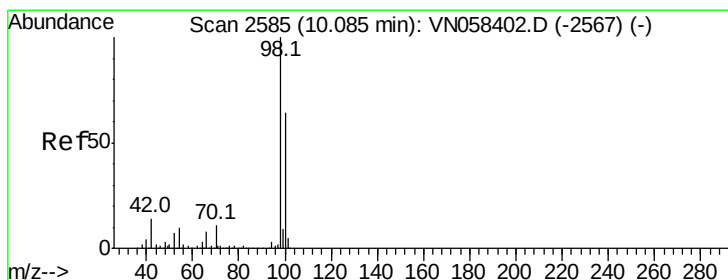
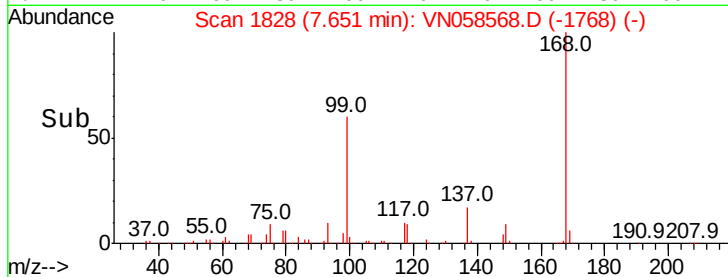
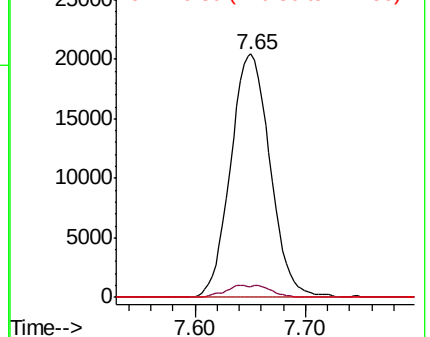
117 100

119 4.4 76.6 115.0#

121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 52.570 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058568.D

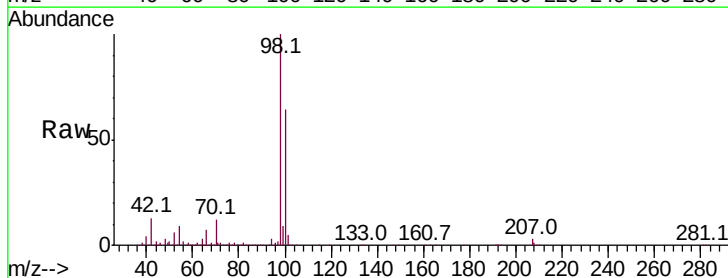
Acq: 7 Oct 2019 16:02

Tgt Ion: 98 Resp: 1013657

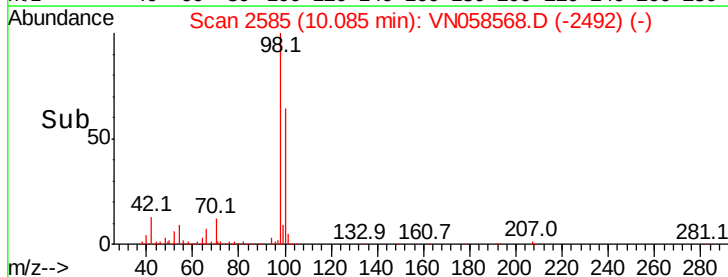
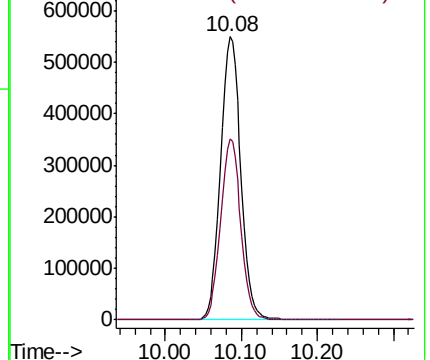
Ion Ratio Lower Upper

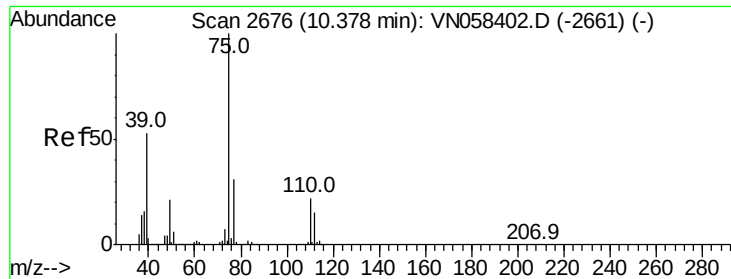
98 100

100 63.6 51.0 76.6



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





#53

t-1,3-Dichloropropene

Concen: 0.725 ug/l

RT: 10.29 min Scan# 2648

Delta R.T. -0.09 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

Instrument :

MSVOA_N

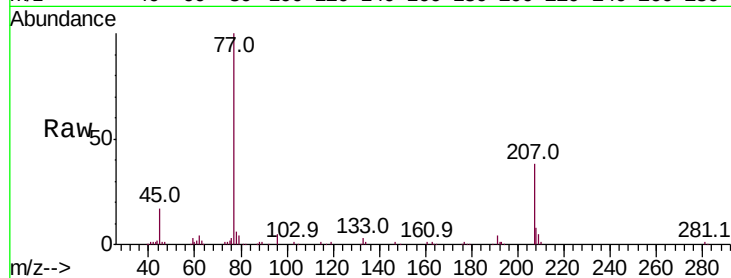
ClientSampleId :

Tot Ion: 75 Resp: 5603

Ion Ratio Lower Upper

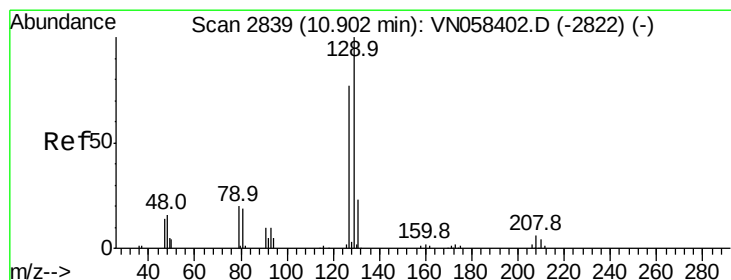
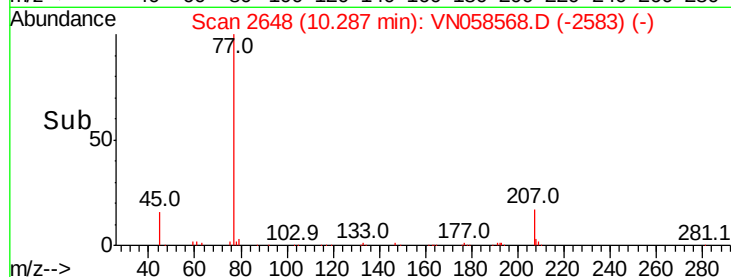
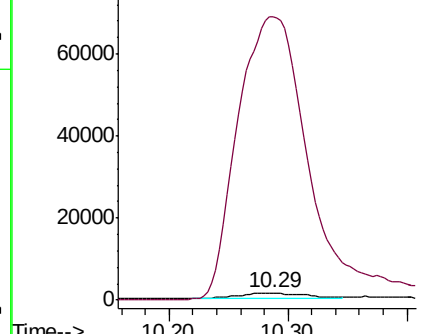
75 100

77 5144.5 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VN058568.D (-2661) (-)

Ion 76.90 (76.60 to 77.60): VN058568.D (-2661) (-)



#60

Dibromochloromethane

Concen: Below Cal

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058568.D

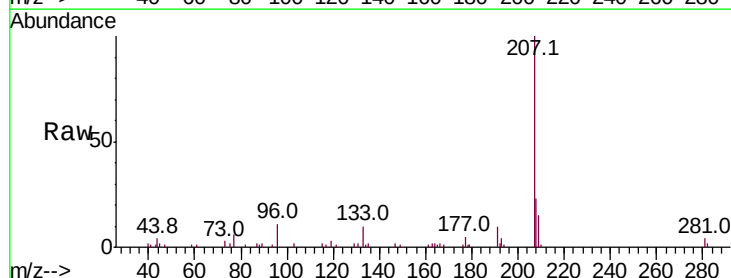
Acq: 7 Oct 2019 16:02

Tgt Ion: 129 Resp: 686

Ion Ratio Lower Upper

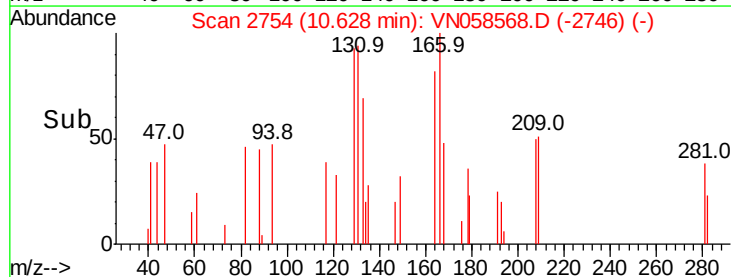
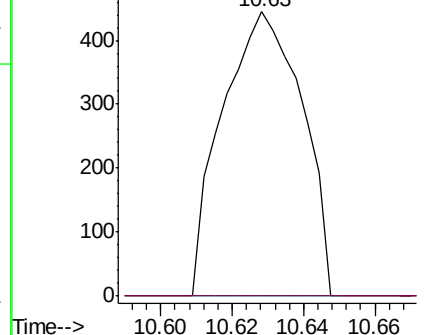
129 100

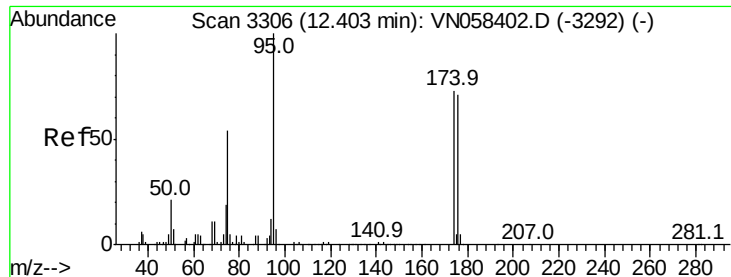
127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): VN058568.D (-2822) (-)

Ion 126.80 (126.50 to 127.50): VN058568.D (-2822) (-)





#62

4-Bromofluorobenzene

Concen: 48.892 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

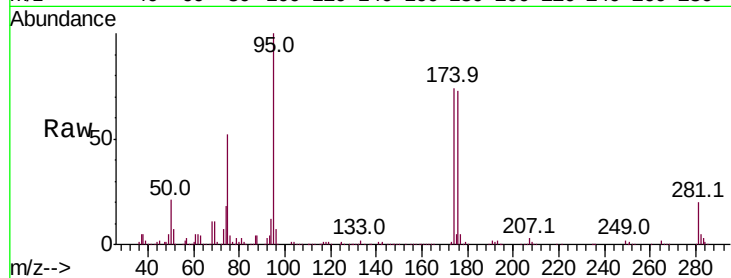
Tot Ion: 95 Resp: 340880

Ion Ratio Lower Upper

95 100

174 74.3 0.0 150.6

176 73.4 0.0 146.2

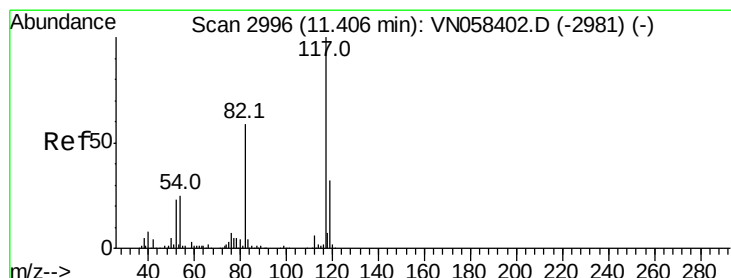
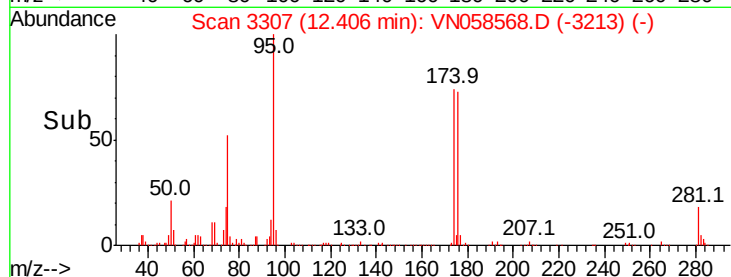


Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

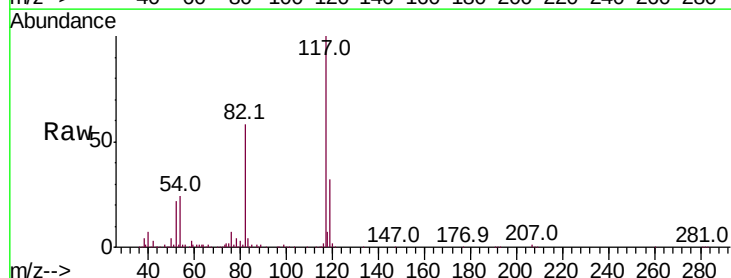
Tgt Ion: 117 Resp: 693631

Ion Ratio Lower Upper

117 100

82 58.0 47.4 71.0

119 31.8 25.5 38.3

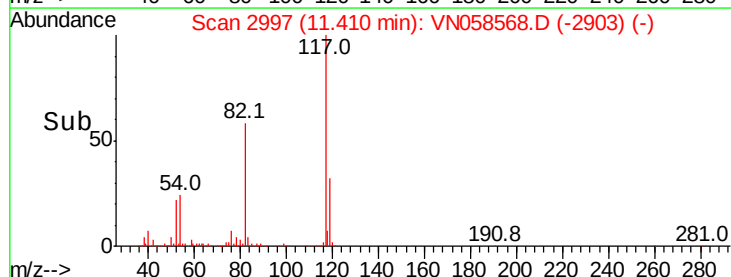


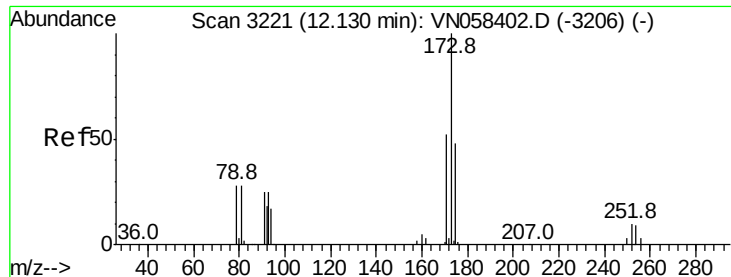
Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 1.267 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

Instrument :

MSVOA_N

ClientSampled :

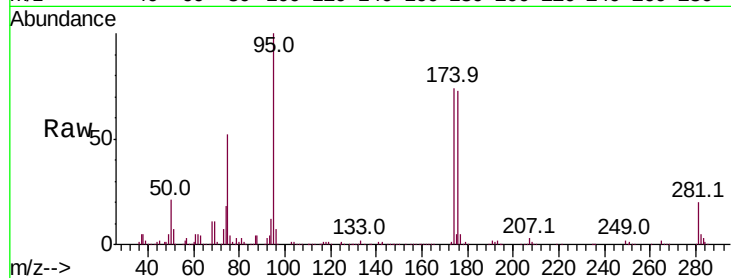
Tot Ion:173 Resp: 1864

Ion Ratio Lower Upper

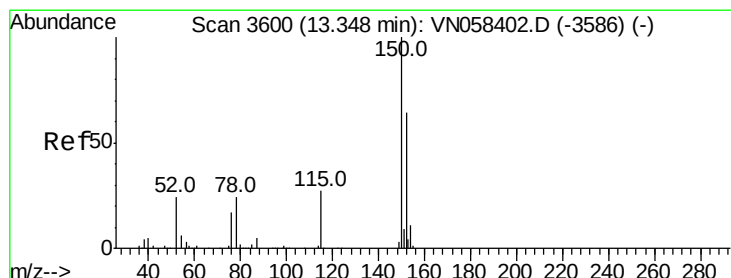
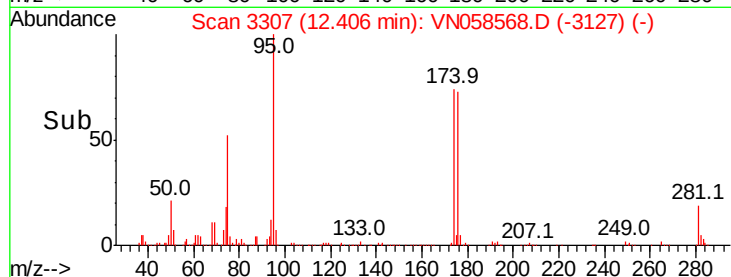
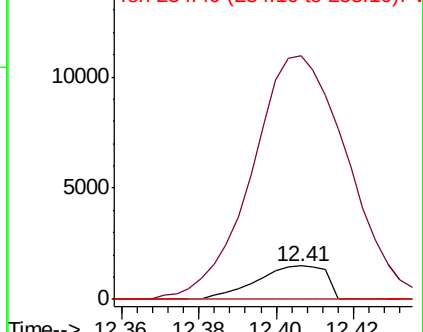
173 100

175 847.4 24.3 73.0#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

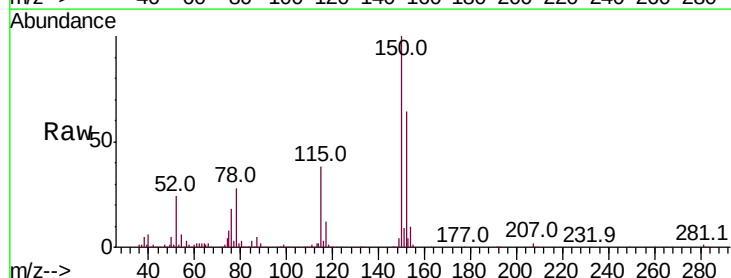
Tgt Ion:152 Resp: 286217

Ion Ratio Lower Upper

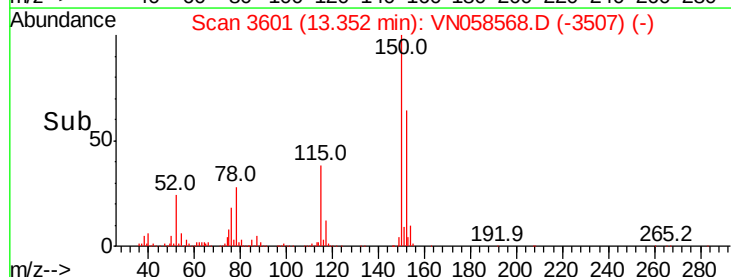
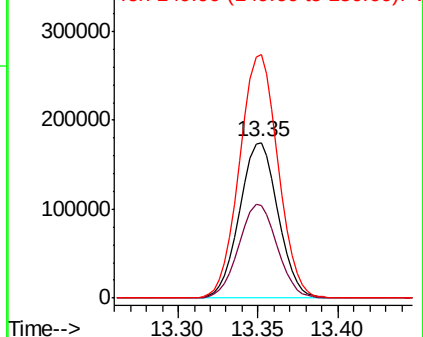
152 100

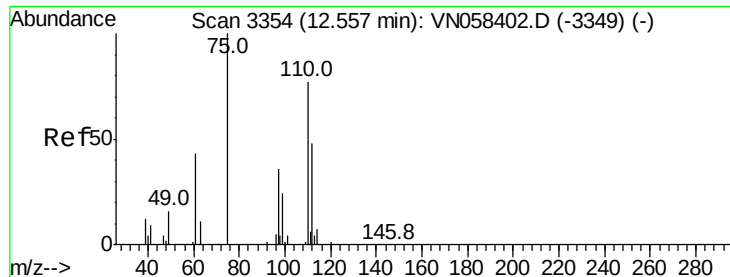
115 60.6 30.0 90.0

150 157.3 0.0 348.2



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





#76

1,2,3-Trichloropropane

Concen: 34.475 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

Instrument :

MSVOA_N

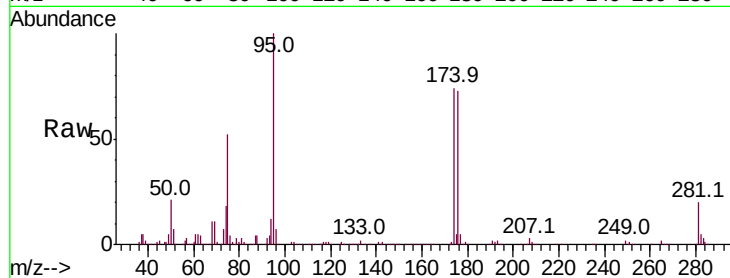
ClientSampled :

Tot Ion: 75 Resp: 180225

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

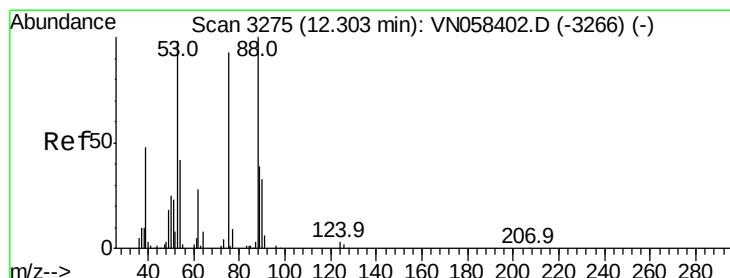
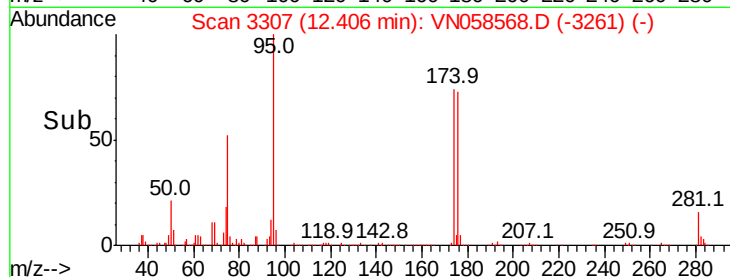
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 104.703 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058568.D

Acq: 7 Oct 2019 16:02

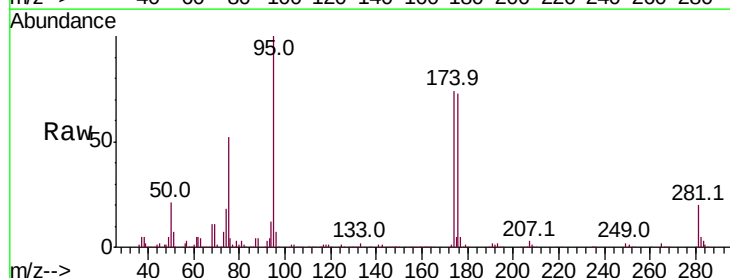
Tgt Ion: 75 Resp: 180225

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.1 35.0 52.4#



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

150000

100000

50000

0

Time--> 12.30 12.40 12.50

