

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058567.D
 Acq On : 7 Oct 2019 15:40
 Operator : JC/SP
 Sample : VN1007WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 08 14:05:44 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	504145	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	795802	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	692671	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	282454	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	349727	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	
35) Dibromofluoromethane	7.57	113	249057	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	
50) Toluene-d8	10.08	98	999190	52.30	ug/l	0.00
Spiked Amount			Recovery	=	104.60%	
62) 4-Bromofluorobenzene	12.41	95	337126	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	

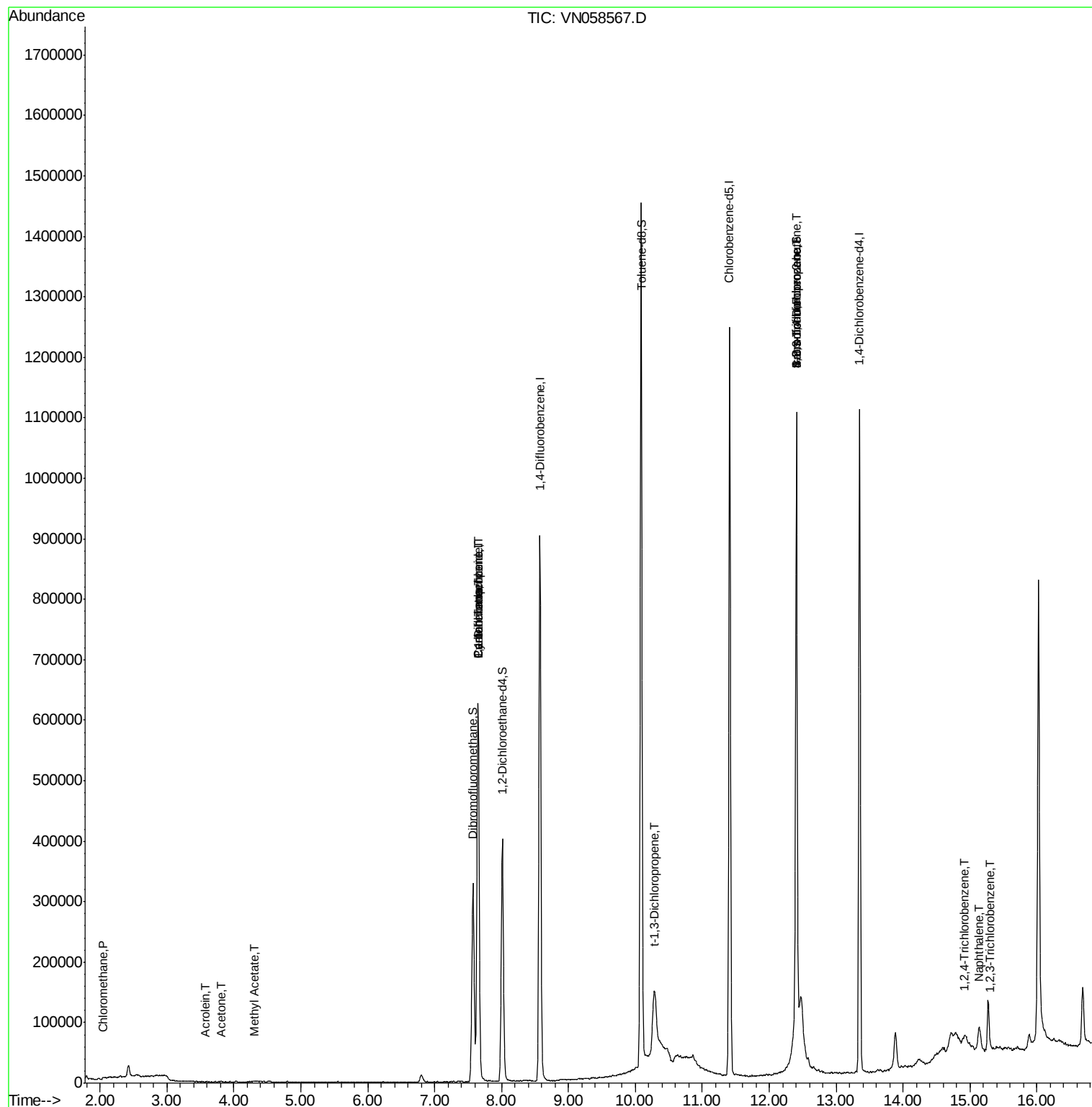
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2186	0.360	ug/l	97
13) Acrolein	3.57	56	70	0.269	ug/l #	13
16) Acetone	3.80	43	904	0.360	ug/l #	47
18) Methyl Acetate	4.31	43	1736	0.275	ug/l #	61
31) Cyclohexane	7.65	56	11552	1.133	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	42505	5.586	ug/l #	50
38) Carbon Tetrachloride	7.65	117	50518	7.355	ug/l #	16
53) t-1,3-Dichloropropene	10.28	75	3524	0.460	ug/l #	1
60) Dibromochloromethane	10.62	129	670	Below Cal	#	11
71) Bromoform	12.41	173	800	0.941	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	179847	34.861	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	179847	105.876	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.92	180	1386	0.294	ug/l #	89
95) Naphthalene	15.14	128	6182	0.419	ug/l	95
96) 1,2,3-Trichlorobenzene	15.30	180	1781	0.352	ug/l	77

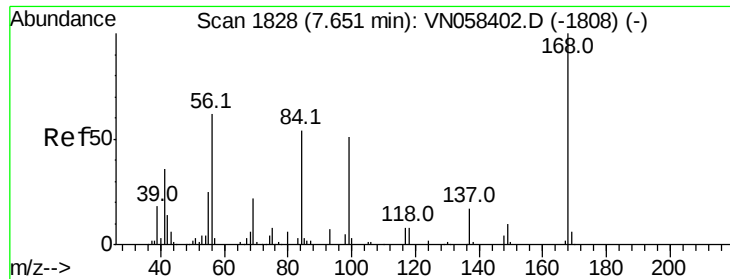
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

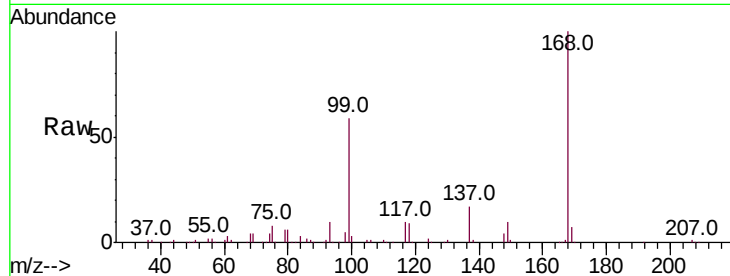
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 504145

Ion Ratio Lower Upper

168 100

99 58.6 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

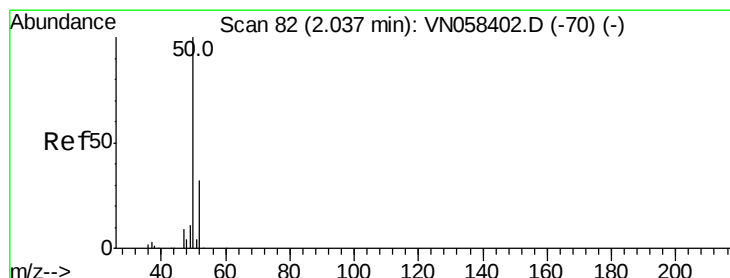
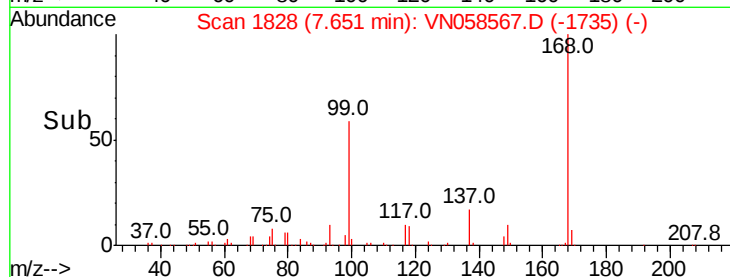
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.360 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058567.D

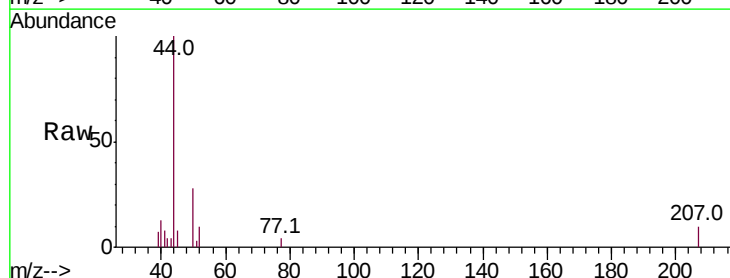
Acq: 7 Oct 2019 15:40

Tgt Ion: 50 Resp: 2186

Ion Ratio Lower Upper

50 100

52 33.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1500

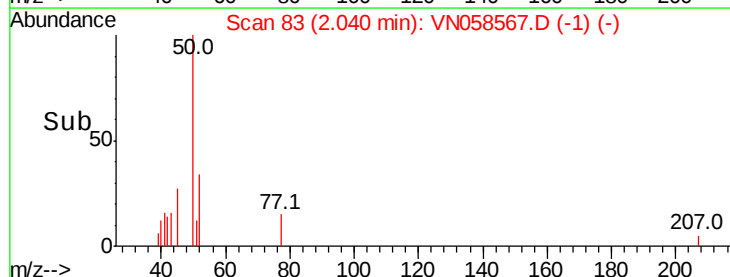
1000

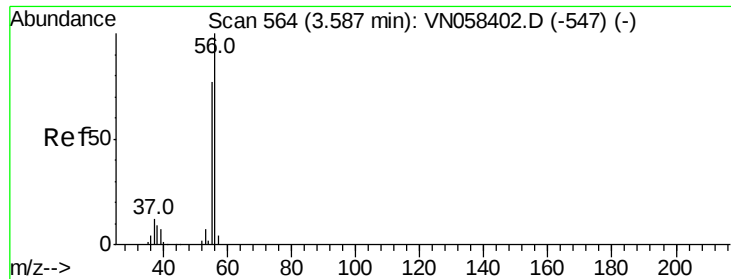
500

0

2.00 2.05

Time-->





#13

Acrolein

Concen: 0.269 ug/l

RT: 3.57 min Scan# 560

Delta R.T. -0.01 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

Instrument :

MSVOA_N

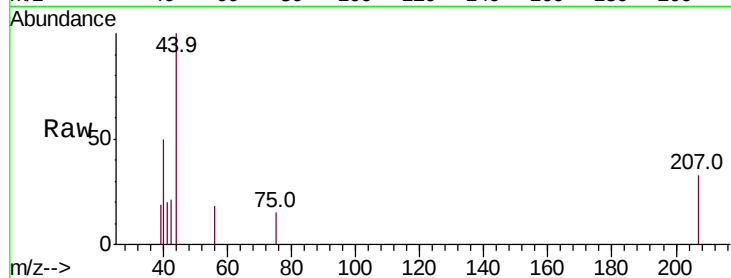
ClientSampled :

Tot Ion: 56 Resp: 70

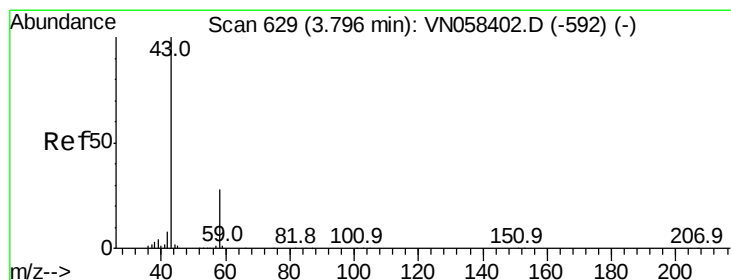
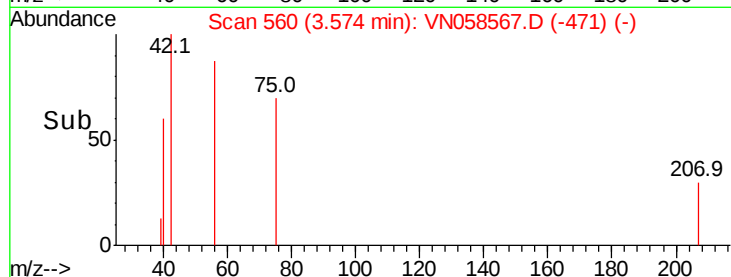
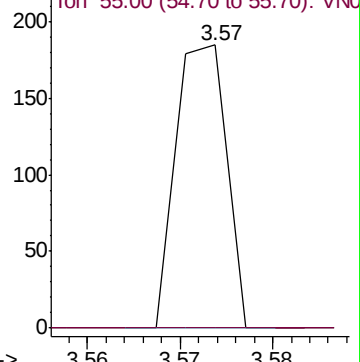
Ion Ratio Lower Upper

56 100

55 0.0 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0



#16

Acetone

Concen: 0.360 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058567.D

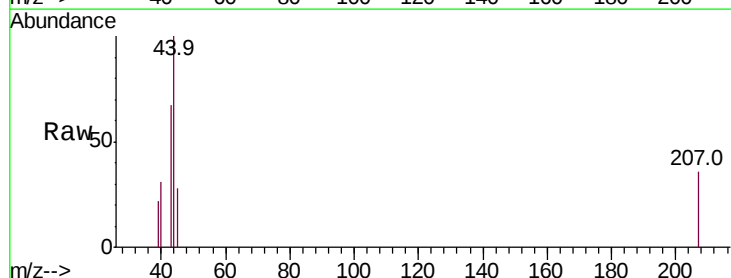
Acq: 7 Oct 2019 15:40

Tgt Ion: 43 Resp: 904

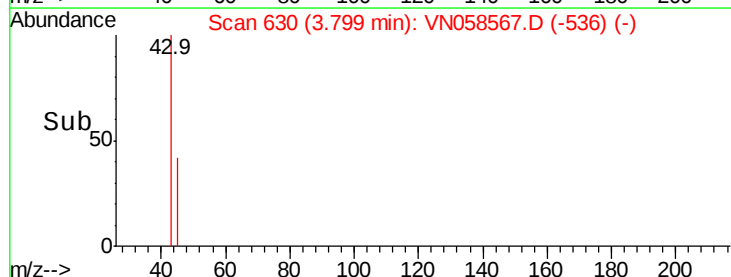
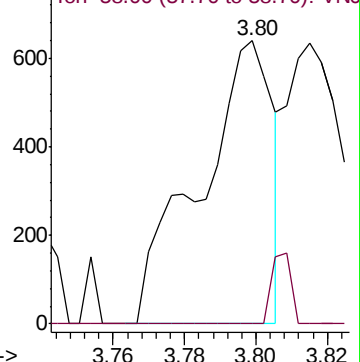
Ion Ratio Lower Upper

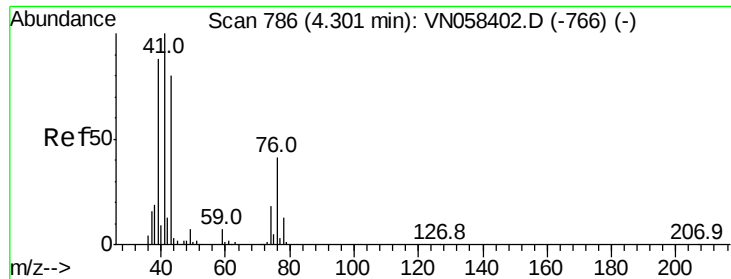
43 100

58 0.0 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

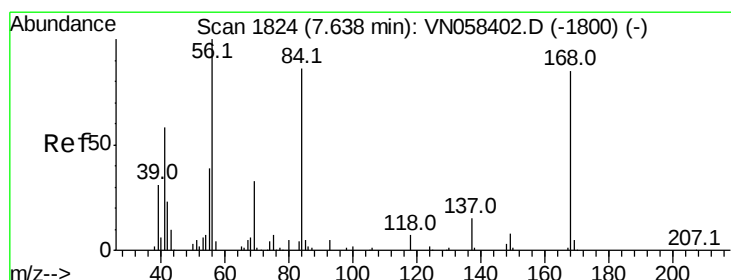
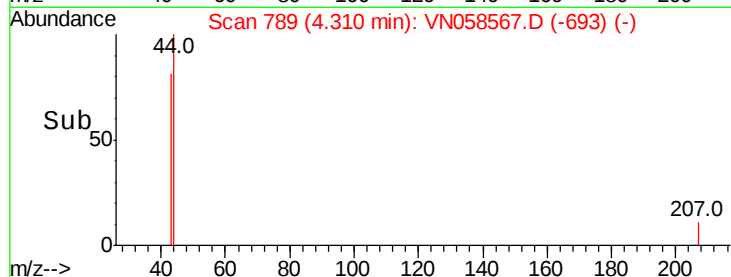
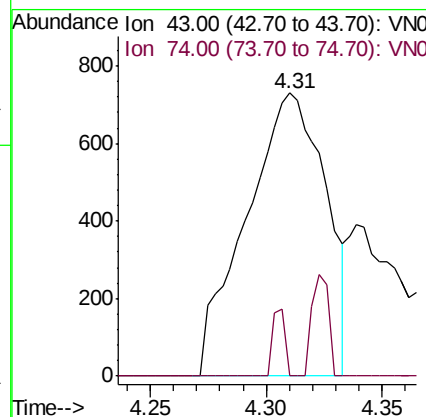
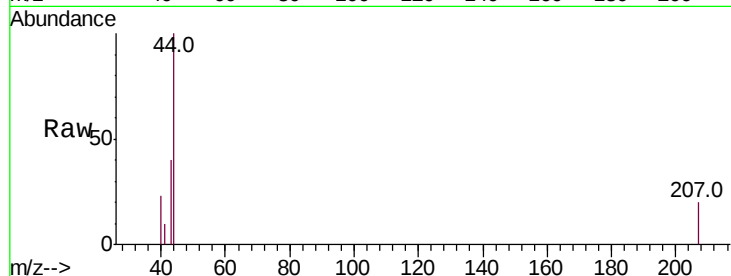




#18
Methyl Acetate
Concen: 0.275 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058567.D
Acq: 7 Oct 2019 15:40

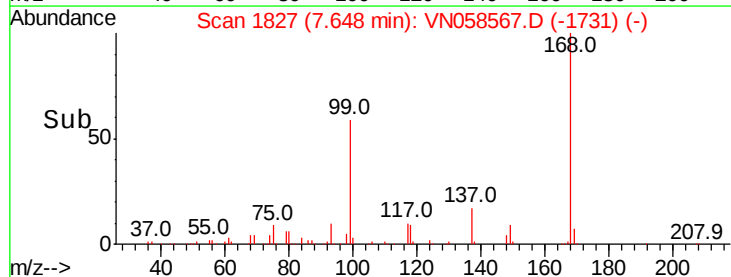
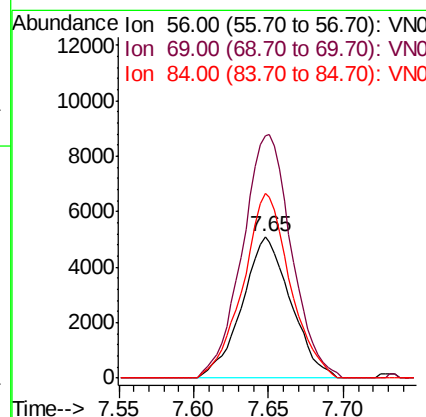
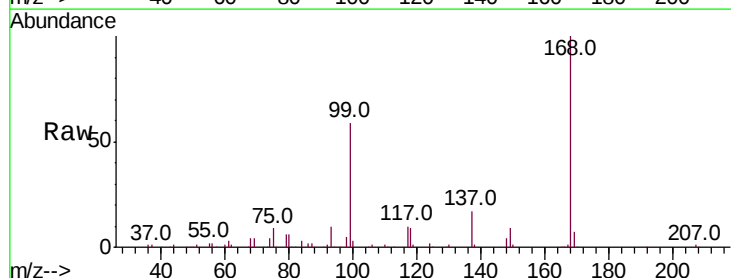
Instrument :
MSVOA_N
ClientSampleId :

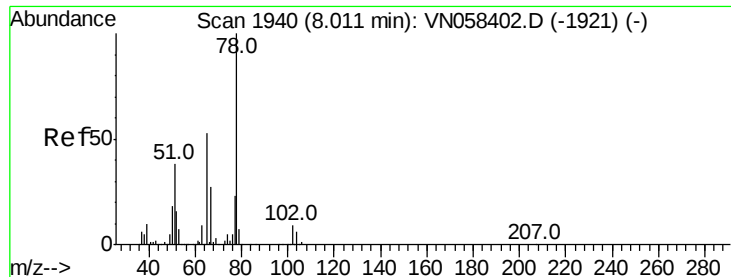
Tot Ion: 43 Resp: 1736
Ion Ratio Lower Upper
43 100
74 3.7 18.0 27.0#



#31
Cyclohexane
Concen: 1.133 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058567.D
Acq: 7 Oct 2019 15:40

Tgt Ion: 56 Resp: 11552
Ion Ratio Lower Upper
56 100
69 172.0 26.2 39.4#
84 130.5 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 47.470 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

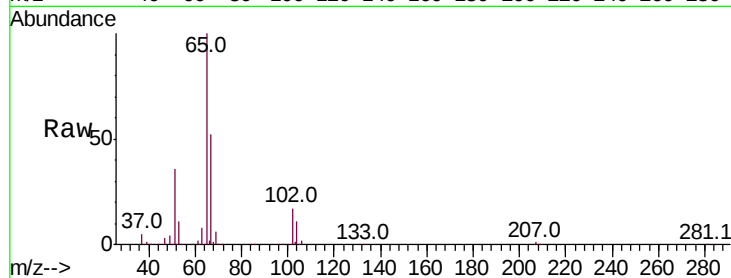
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 349727

Ion Ratio Lower Upper

65 100

67 52.7 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.01

150000

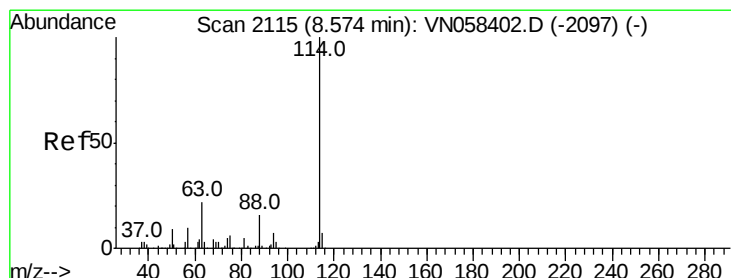
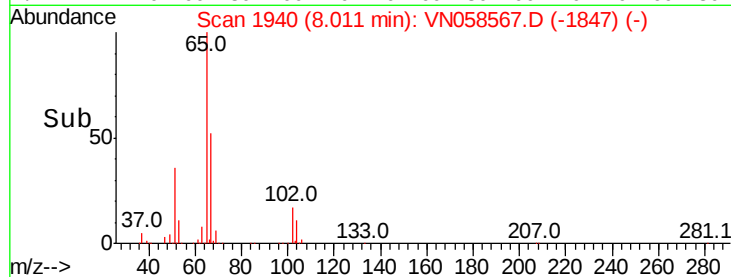
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

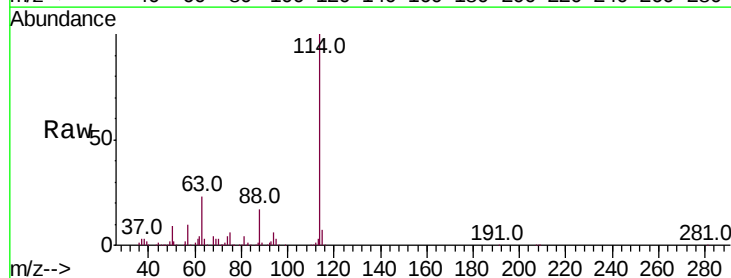
Tgt Ion:114 Resp: 795802

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.0

88 16.6 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

500000

400000

300000

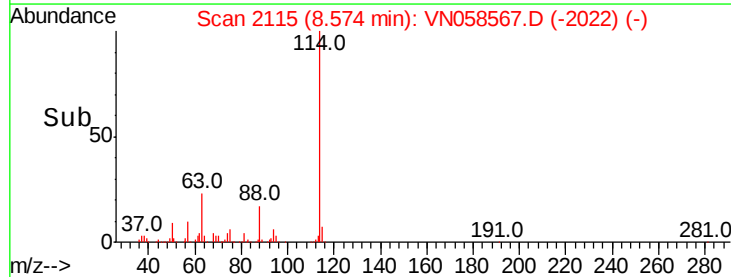
200000

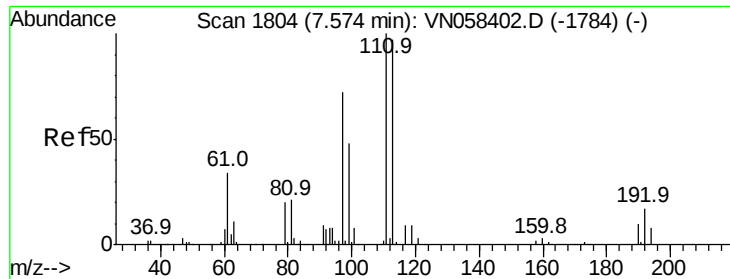
100000

0

8.50 8.60 8.70

Time-->

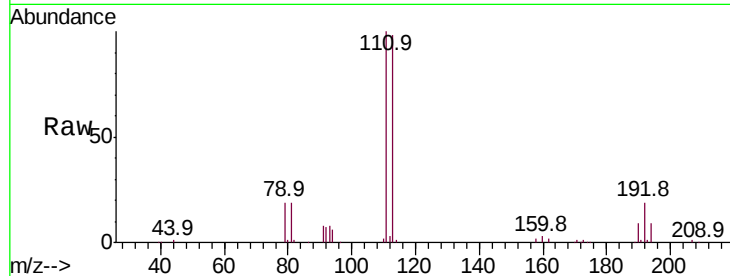




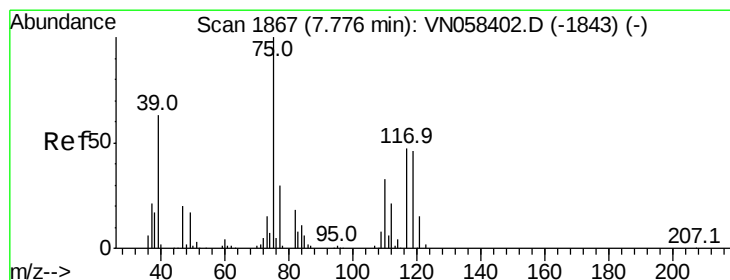
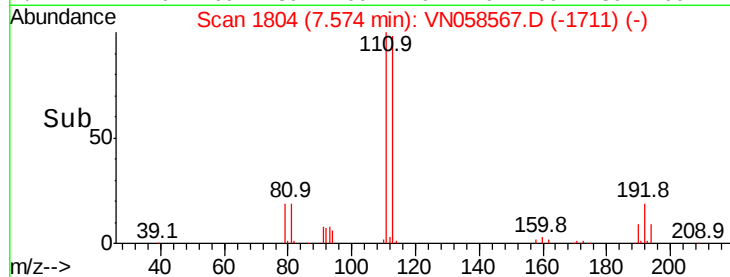
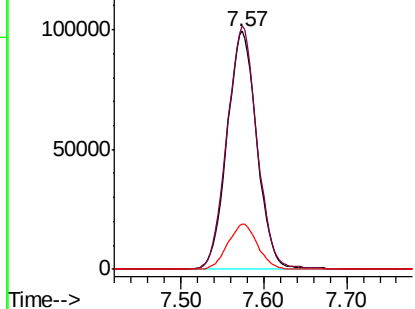
#35
 Dibromofluoromethane
 Concen: 51.064 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058567.D
 Acq: 7 Oct 2019 15:40

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.4	125.2
192	19.0	14.9	22.3

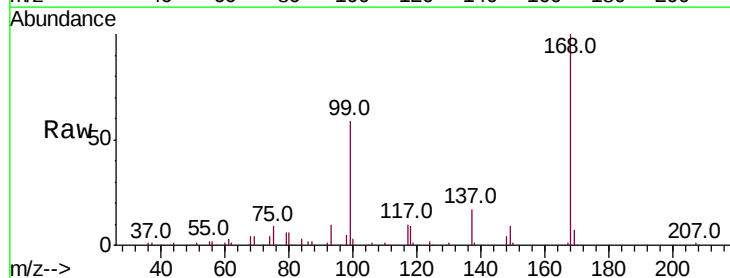


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

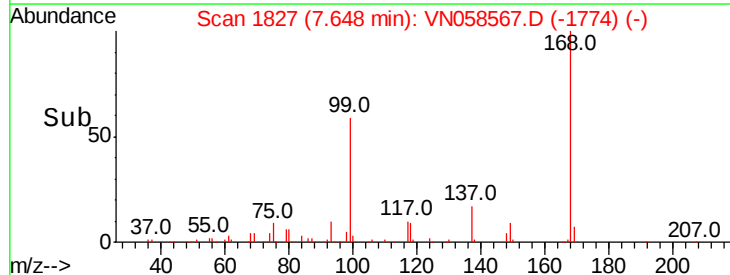
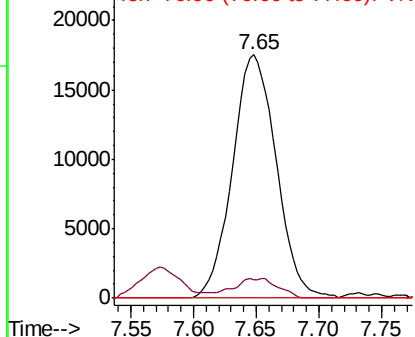


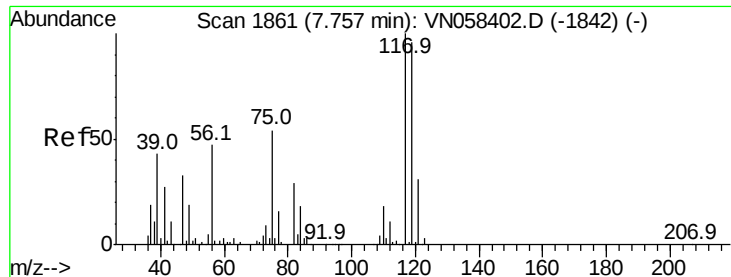
#36
 1,1-Dichloropropene
 Concen: 5.586 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058567.D
 Acq: 7 Oct 2019 15:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	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: 7.355 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

Instrument :
MSVOA_N
ClientSampleId :

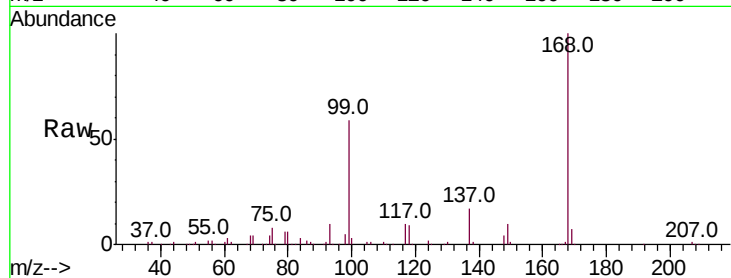
Tot Ion:117 Resp: 50518

Ion Ratio Lower Upper

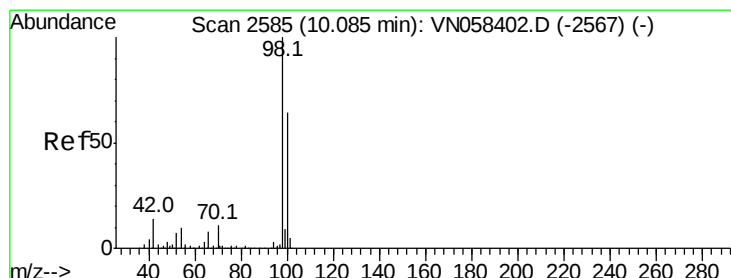
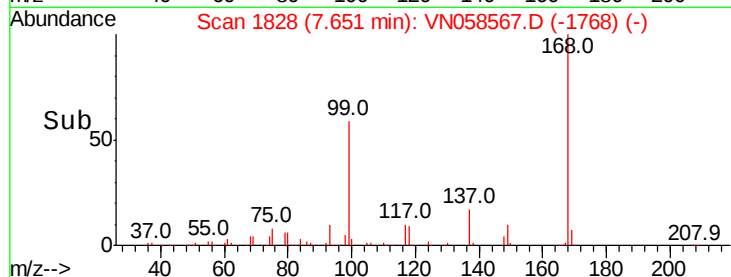
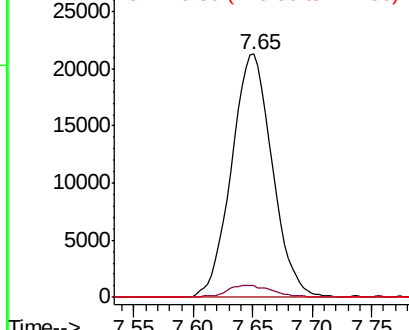
117 100

119 4.7 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: 52.295 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058567.D

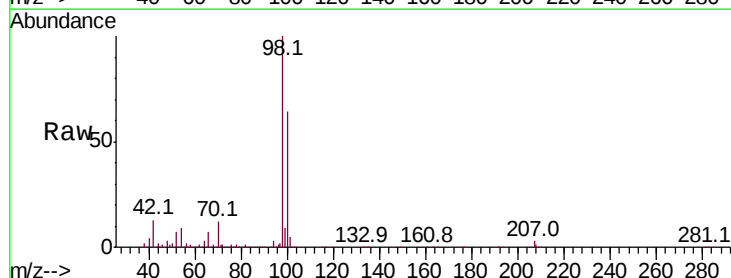
Acq: 7 Oct 2019 15:40

Tgt Ion: 98 Resp: 999190

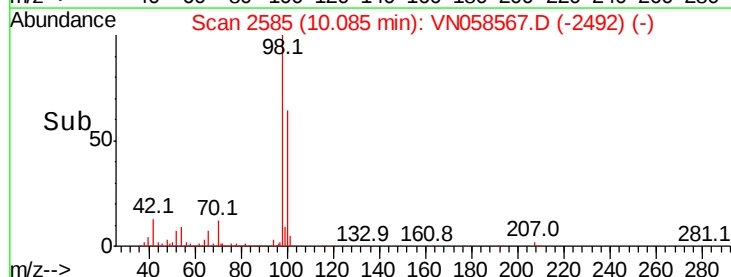
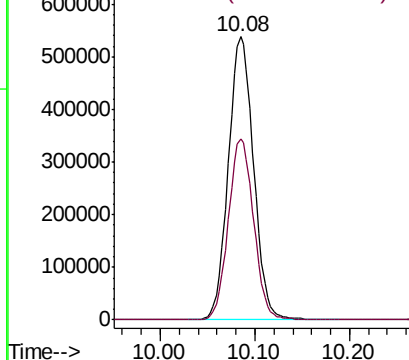
Ion Ratio Lower Upper

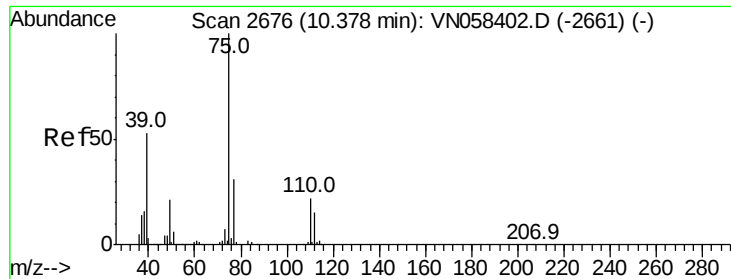
98 100

100 64.0 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: 0.460 ug/l

RT: 10.28 min Scan# 2646

Delta R.T. -0.10 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

Instrument :

MSVOA_N

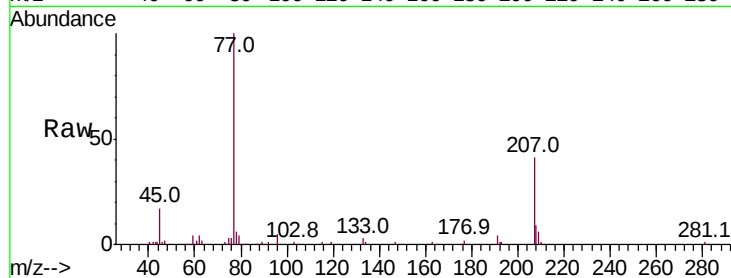
ClientSampleId :

Tot Ion: 75 Resp: 3524

Ion Ratio Lower Upper

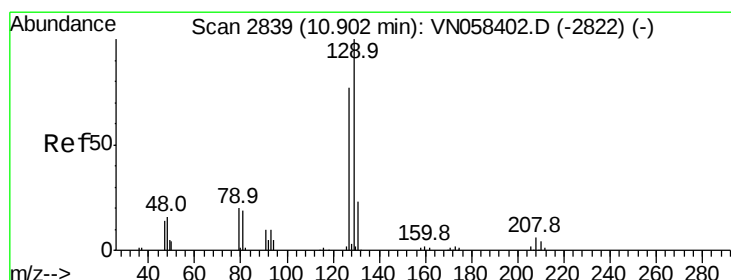
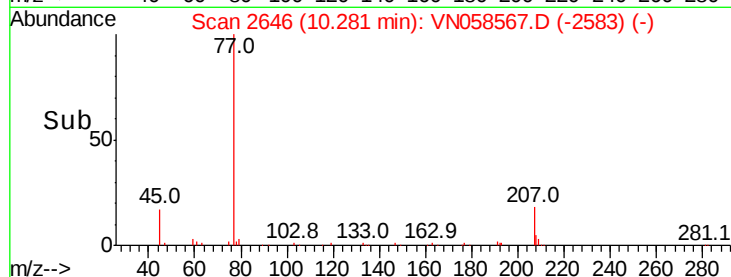
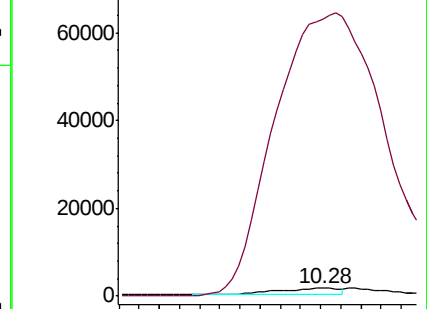
75 100

77 4055.6 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VN058402.D (-2661) (-)

Ion 76.90 (76.60 to 77.60): VN058402.D (-2661) (-)



#60

Dibromochloromethane

Concen: Below Cal

RT: 10.62 min Scan# 2753

Delta R.T. -0.28 min

Lab File: VN058567.D

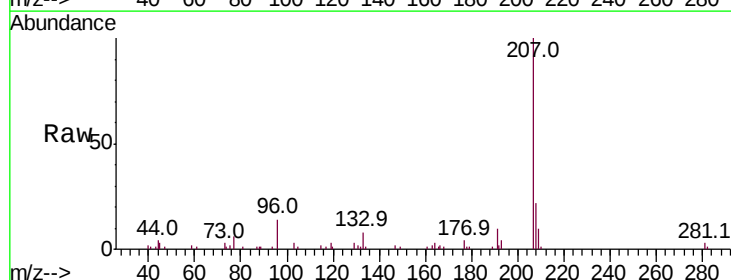
Acq: 7 Oct 2019 15:40

Tgt Ion: 129 Resp: 670

Ion Ratio Lower Upper

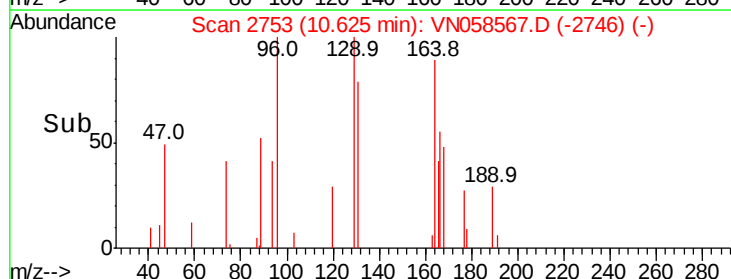
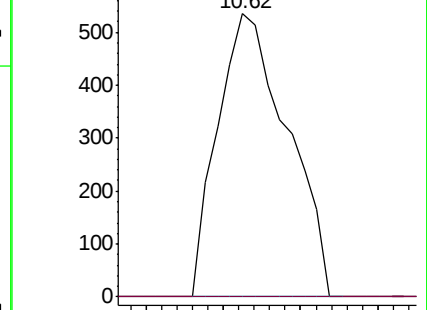
129 100

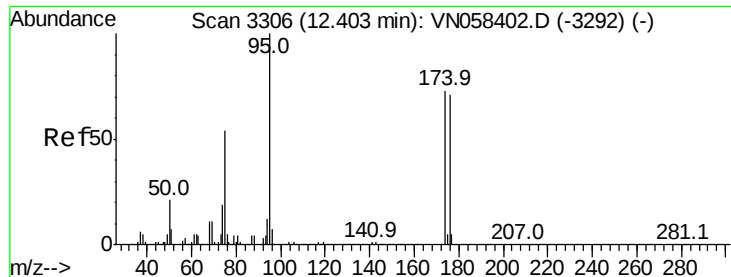
127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): VN058402.D (-2822) (-)

Ion 126.80 (126.50 to 127.50): VN058402.D (-2822) (-)





#62

4-Bromofluorobenzene

Concen: 48.798 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

Instrument :

MSVOA_N

ClientSampled :

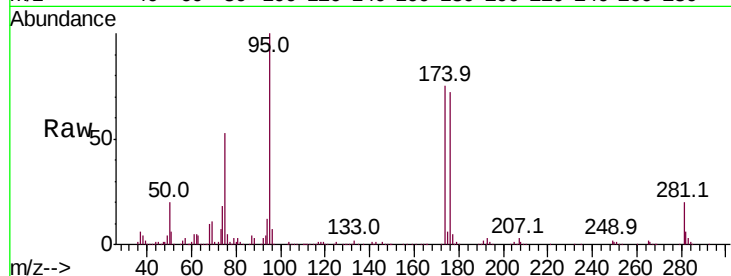
Tot Ion: 95 Resp: 337126

Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.6

176 72.3 0.0 146.2

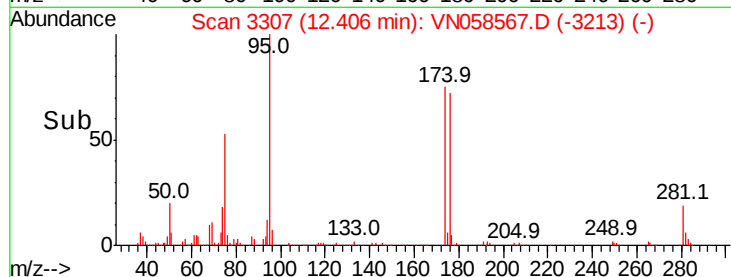


Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

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

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

Time-->

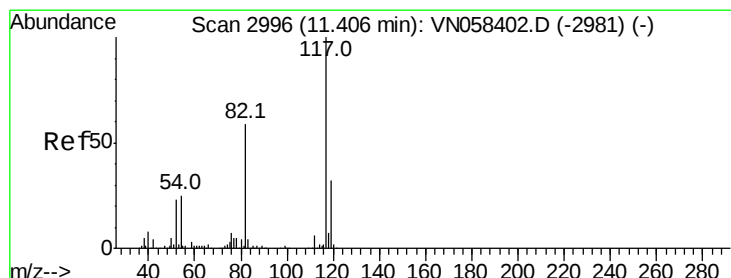


Abundance Ion 94.90 (94.60 to 95.60): VN058567.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058567.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058567.D (-3213) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

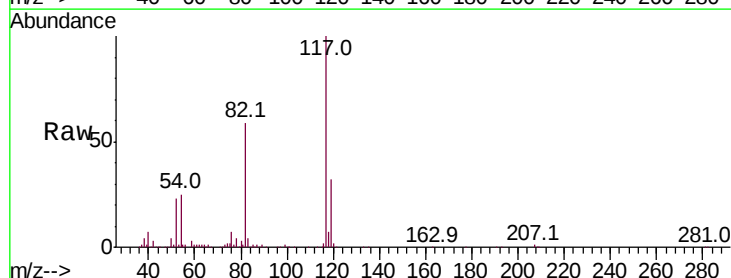
Tgt Ion: 117 Resp: 692671

Ion Ratio Lower Upper

117 100

82 59.4 47.4 71.0

119 31.7 25.5 38.3

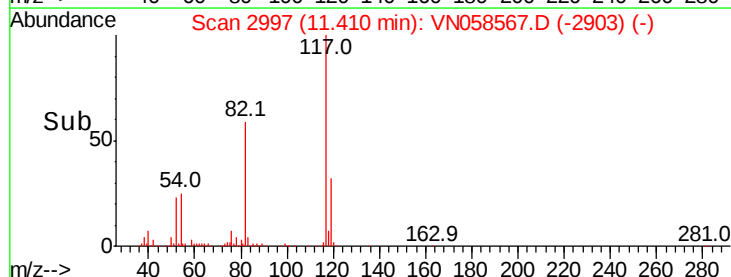


Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

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

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

Time-->

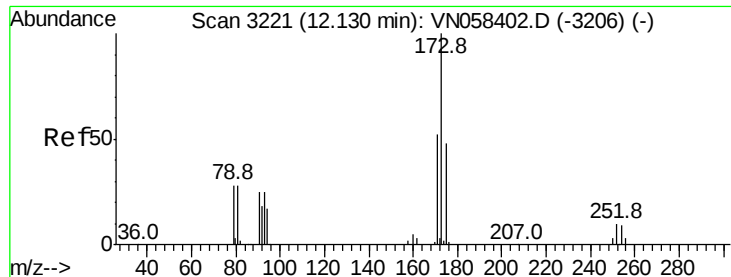


Abundance Ion 116.90 (116.60 to 117.60): VN058567.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058567.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058567.D (-2903) (-)

Time-->



#71

Bromoform

Concen: 0.941 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

Instrument :

MSVOA_N

ClientSampled :

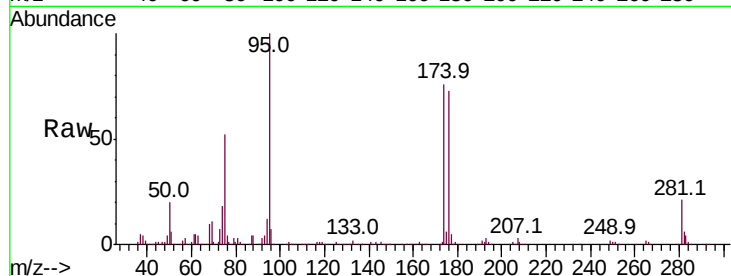
Tot Ion:173 Resp: 800

Ion Ratio Lower Upper

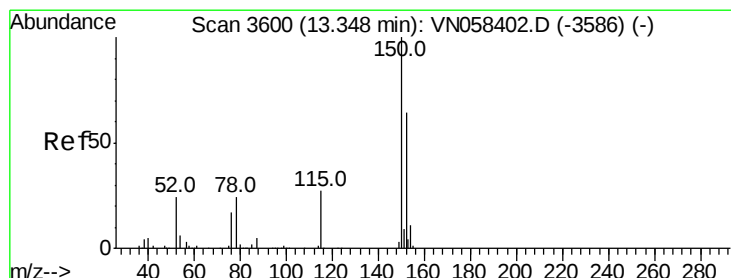
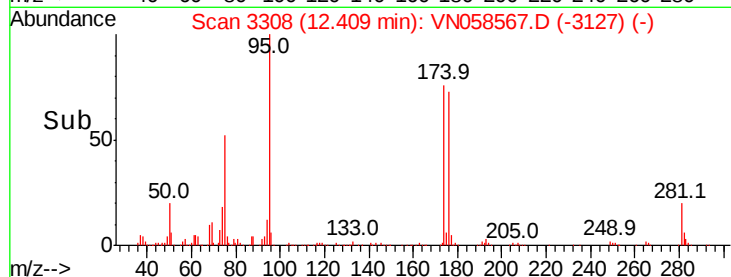
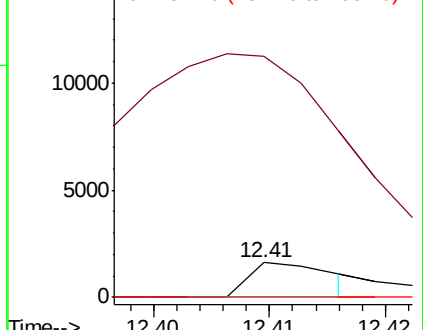
173 100

175 2039.2 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# 3600

Delta R.T. -0.00 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

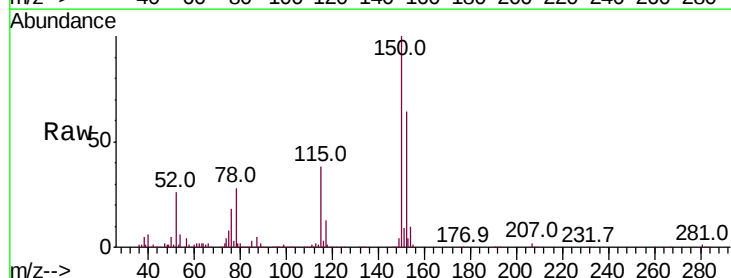
Tgt Ion:152 Resp: 282454

Ion Ratio Lower Upper

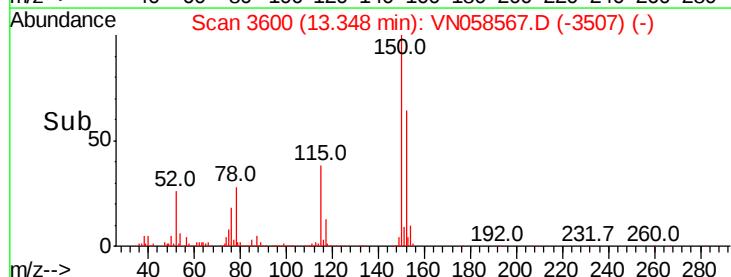
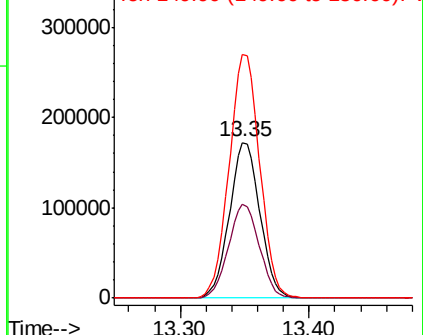
152 100

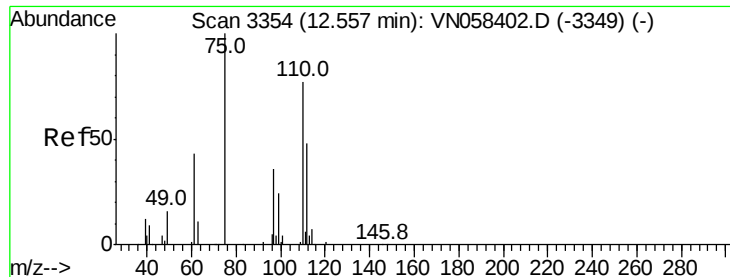
115 61.0 30.0 90.0

150 157.1 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: 34.861 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

Instrument :

MSVOA_N

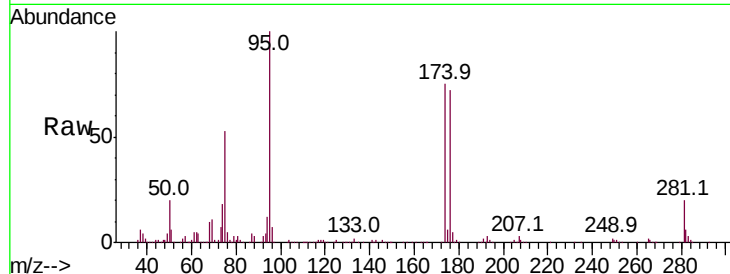
ClientSampleId :

Tot Ion: 75 Resp: 179847

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.41

100000

80000

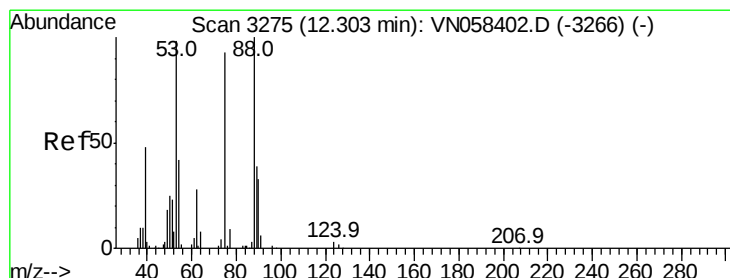
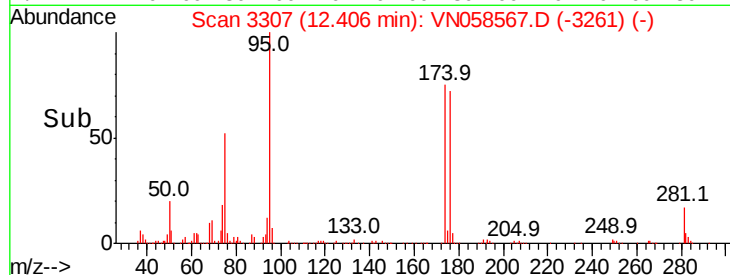
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 105.876 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058567.D

Acq: 7 Oct 2019 15:40

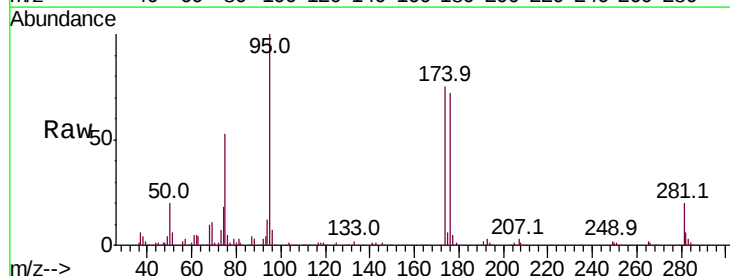
Tgt Ion: 75 Resp: 179847

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.3 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

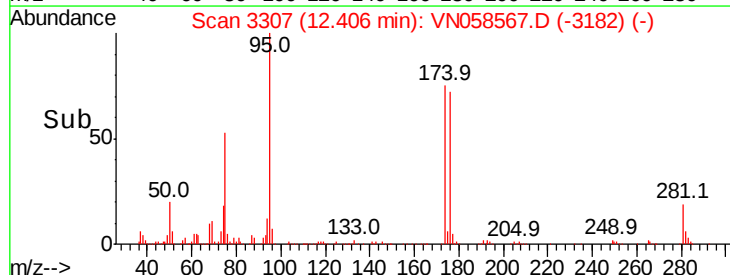
150000

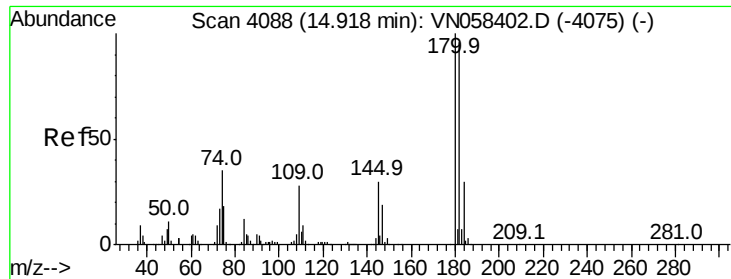
100000

50000

0

Time--> 12.30 12.40 12.50

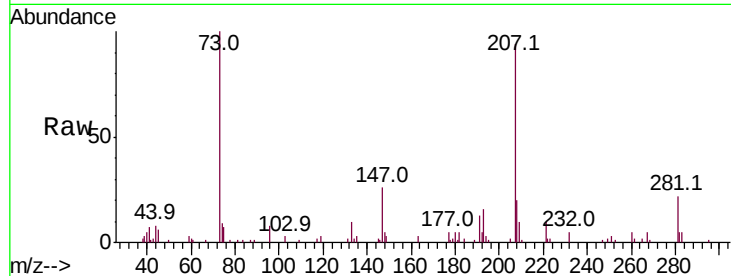




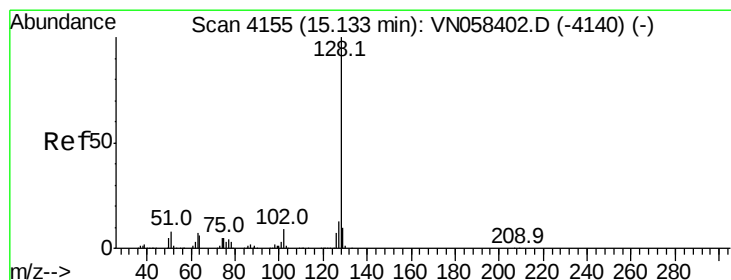
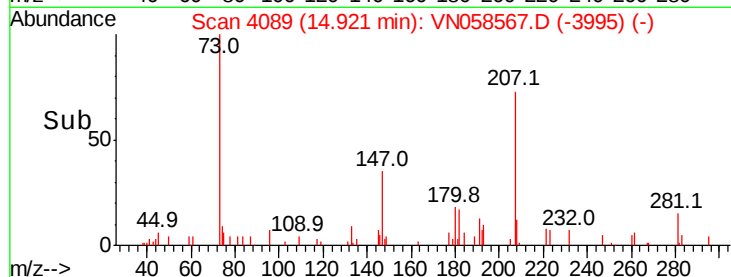
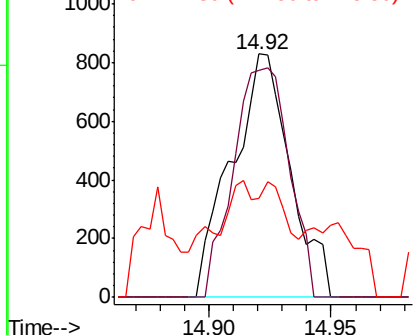
#93
 1,2,4-Trichlorobenzene
 Concen: 0.294 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN058567.D
 Acq: 7 Oct 2019 15:40

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1386
 Ion Ratio Lower Upper
 180 100
 182 90.0 47.4 142.3
 145 14.4 15.3 45.9#

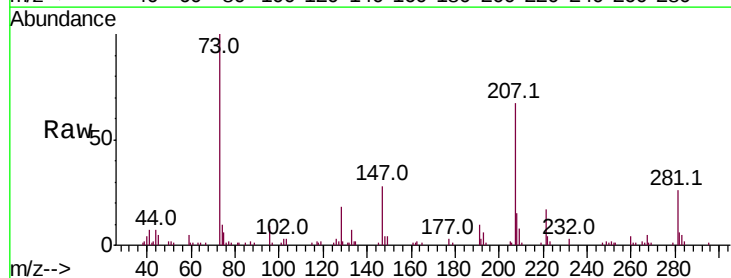


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

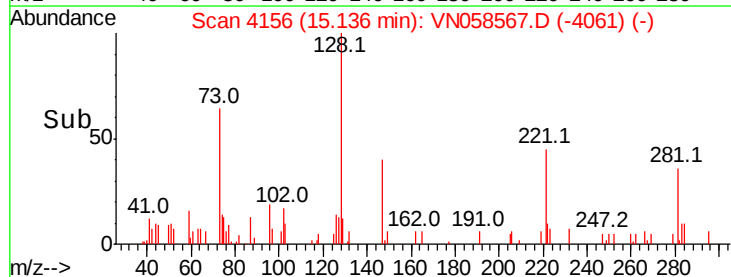
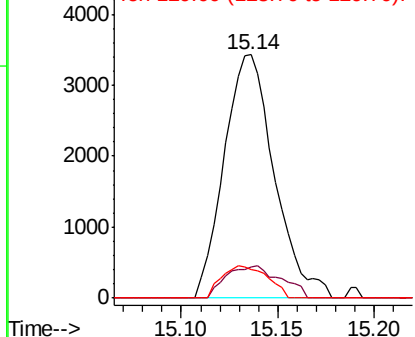


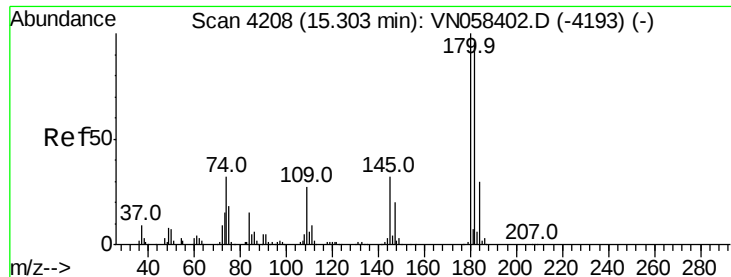
#95
 Naphthalene
 Concen: 0.419 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN058567.D
 Acq: 7 Oct 2019 15:40

Tgt Ion:128 Resp: 6182
 Ion Ratio Lower Upper
 128 100
 127 14.6 10.2 15.4
 129 12.1 8.3 12.5



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.352 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN058567.D
 Acq: 7 Oct 2019 15:40

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	70.2	48.3	144.9
145	38.1	16.1	48.3

