

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058716.D
 Acq On : 11 Oct 2019 20:46
 Operator : JC/SP
 Sample : K5336-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-USMW025-9001

Quant Time: Oct 12 00:14:46 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	426166	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	656742	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	579984	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	234617	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	287416	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
35) Dibromofluoromethane	7.57	113	204944	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
50) Toluene-d8	10.08	98	789435	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
62) 4-Bromofluorobenzene	12.41	95	263837	42.97	ug/l	0.00
Spiked Amount			Recovery	=	85.94%	

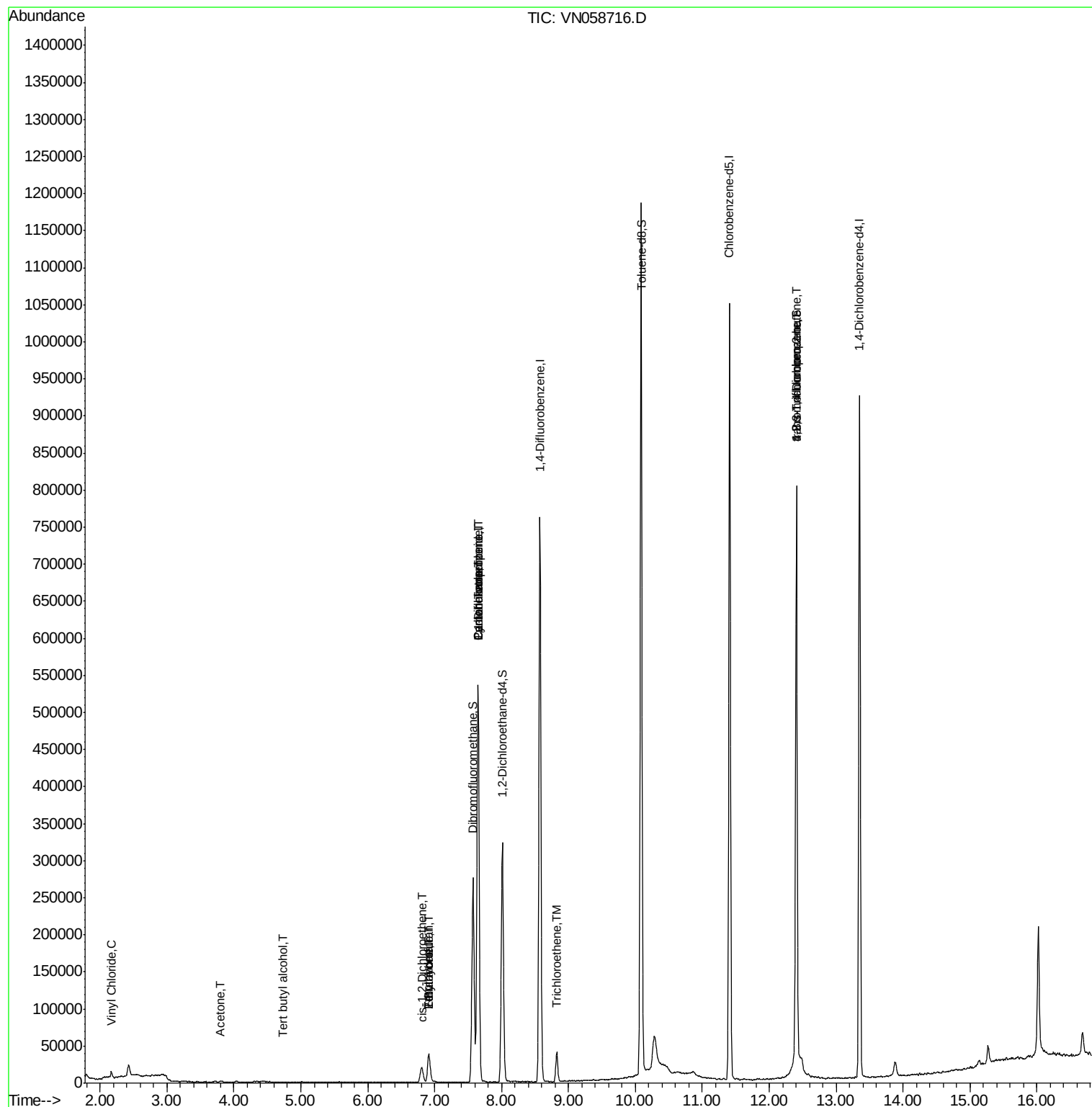
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.17	62	7517	1.196	ug/l	98
11) Tert butyl alcohol	4.72	59	237	0.245	ug/l #	72
16) Acetone	3.80	43	786	0.318	ug/l #	72
25) 2-Butanone	6.91	43	66029	18.495	ug/l #	50
27) cis-1,2-Dichloroethene	6.81	96	6397	1.198	ug/l	82
29) Tetrahydrofuran	6.91	42	3998	1.733	ug/l #	35
31) Cyclohexane	7.64	56	10098	1.154	ug/l #	10
36) 1,1-Dichloropropene	7.65	75	35532	5.351	ug/l #	51
37) Ethyl Acetate	6.91	43	66029	9.833	ug/l	99
38) Carbon Tetrachloride	7.65	117	41973	6.486	ug/l #	16
44) Trichloroethene	8.82	130	13713	2.896	ug/l	100
76) 1,2,3-Trichloropropane	12.41	75	141271	27.448	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	141271	73.523	ug/l #	11

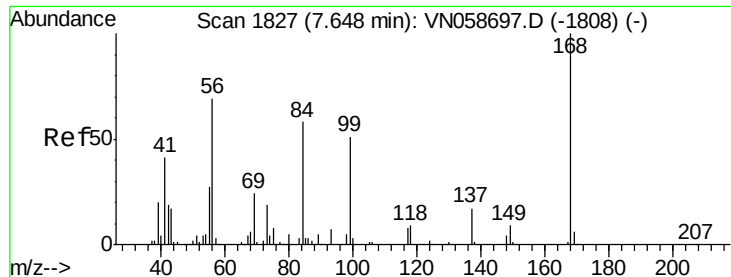
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058716.D

Acq: 11 Oct 2019 20:46

Instrument :

MSVOA_N

ClientSampleId :

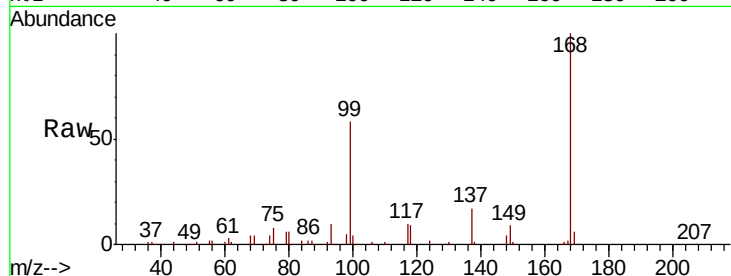
FA19-USMW025-9001

Tot Ion:168 Resp: 426166

Ion Ratio Lower Upper

168 100

99 58.2 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VN058716.D (-1734) (-)

Ion 98.90 (98.60 to 99.60): VN058716.D (-1734) (-)

7.65

200000

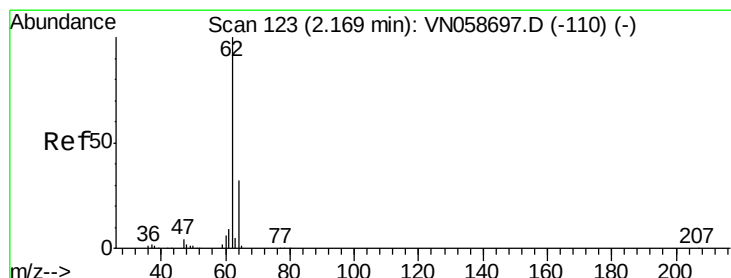
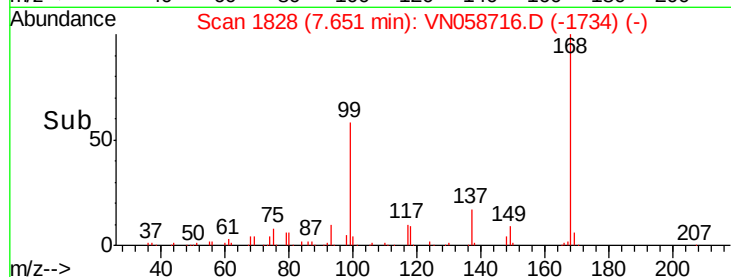
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 1.196 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058716.D

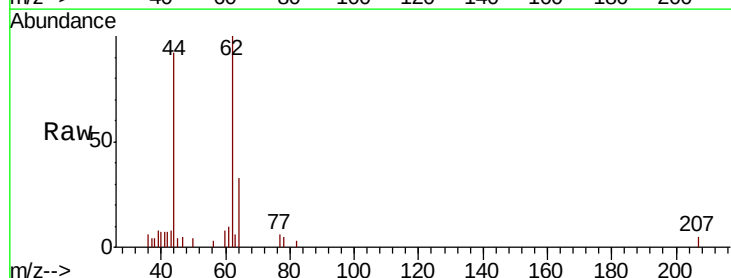
Acq: 11 Oct 2019 20:46

Tgt Ion: 62 Resp: 7517

Ion Ratio Lower Upper

62 100

64 32.5 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VN058716.D (-30) (-)

Ion 63.90 (63.60 to 64.60): VN058716.D (-30) (-)

2.17

5000

4000

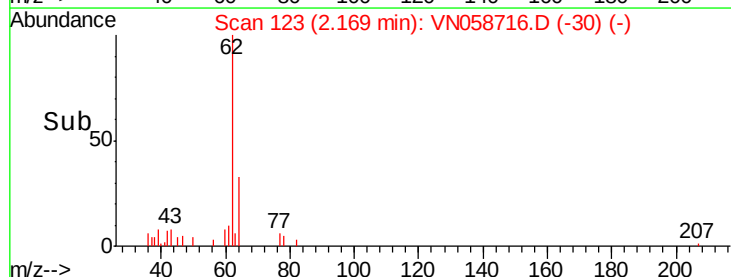
3000

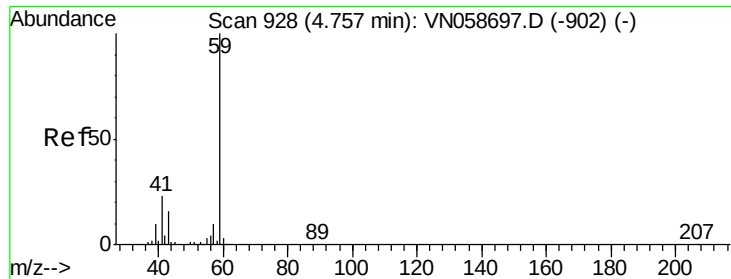
2000

1000

0

Time-->



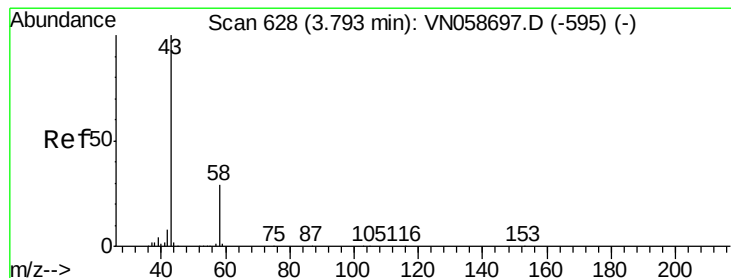
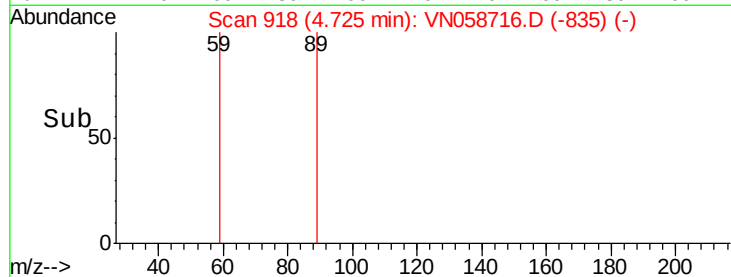
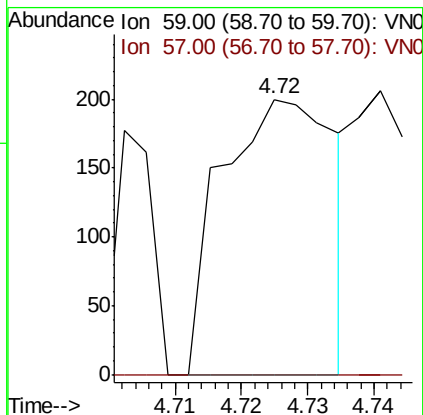
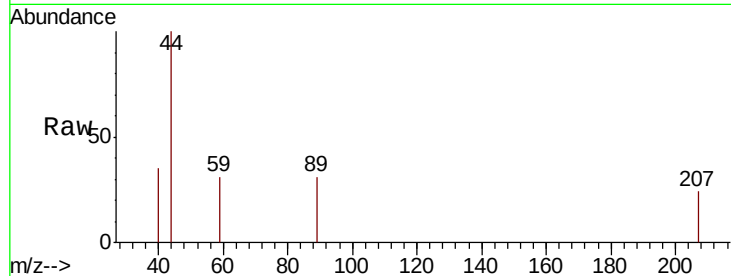


#11

Tert butyl alcohol
 Concen: 0.245 ug/l
 RT: 4.72 min Scan# 918
 Delta R.T. -0.03 min
 Lab File: VN058716.D
 Acq: 11 Oct 2019 20:46

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-USMW025-9001

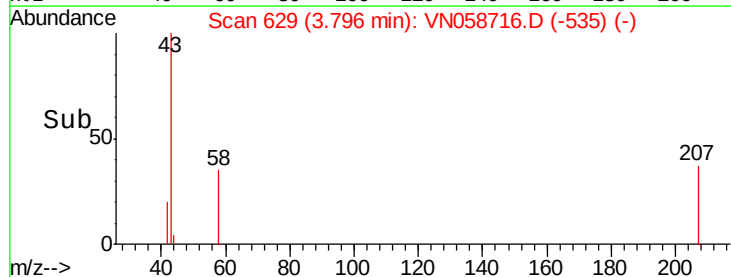
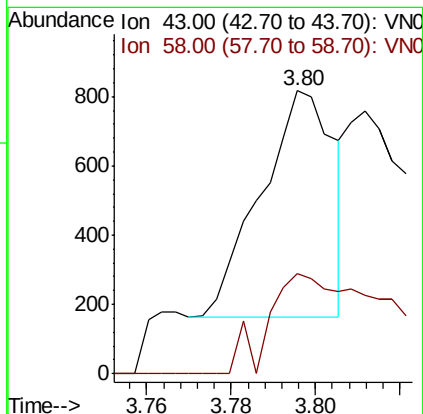
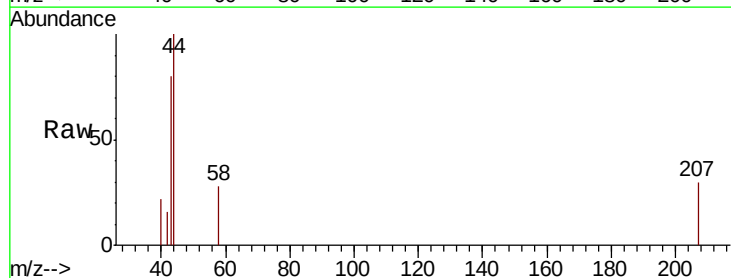
Tot Ion: 59 Resp: 237
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

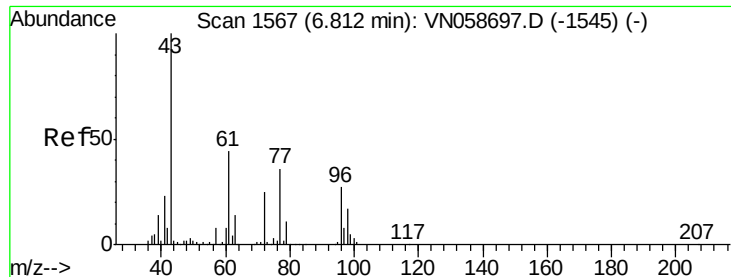


#16

Acetone
 Concen: 0.318 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.00 min
 Lab File: VN058716.D
 Acq: 11 Oct 2019 20:46

Tgt Ion: 43 Resp: 786
 Ion Ratio Lower Upper
 43 100
 58 44.1 23.3 34.9#





#25

2-Butanone

Concen: 18.495 ug/l

RT: 6.91 min Scan# 1599

Delta R.T. 0.10 min

Lab File: VN058716.D

Acq: 11 Oct 2019 20:46

Instrument :

MSVOA_N

ClientSampleId :

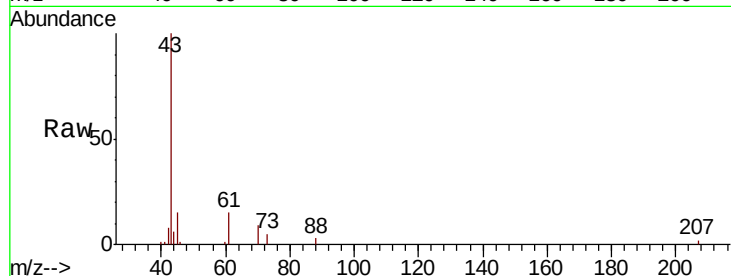
FA19-USMW025-9001

Tot Ion: 43 Resp: 66029

Ion Ratio Lower Upper

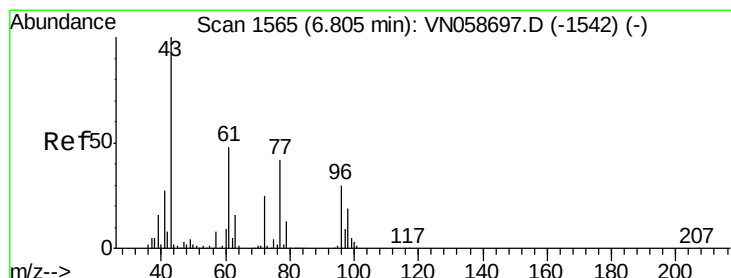
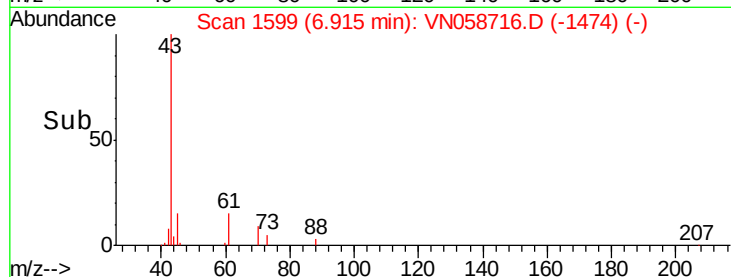
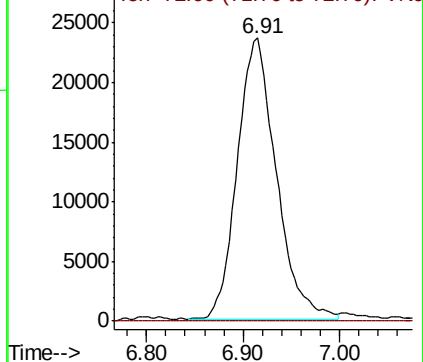
43 100

72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#27

cis-1,2-Dichloroethene

Concen: 1.198 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN058716.D

Acq: 11 Oct 2019 20:46

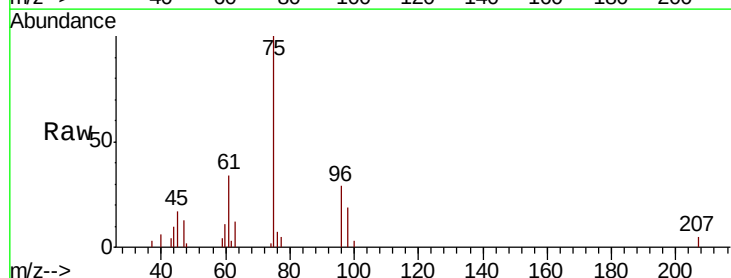
Tgt Ion: 96 Resp: 6397

Ion Ratio Lower Upper

96 100

61 132.0 0.0 324.8

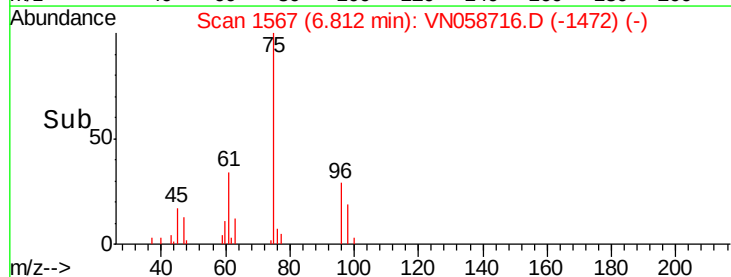
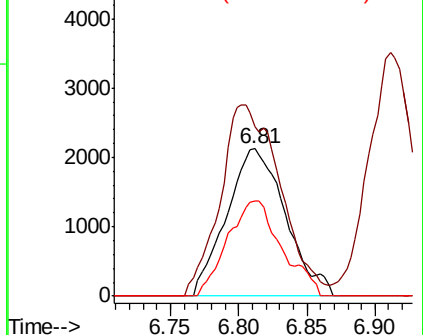
98 59.2 0.0 129.2

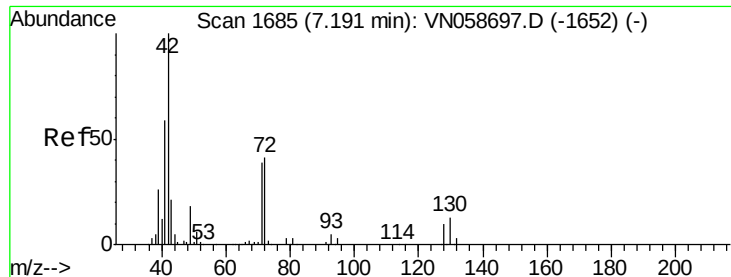


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

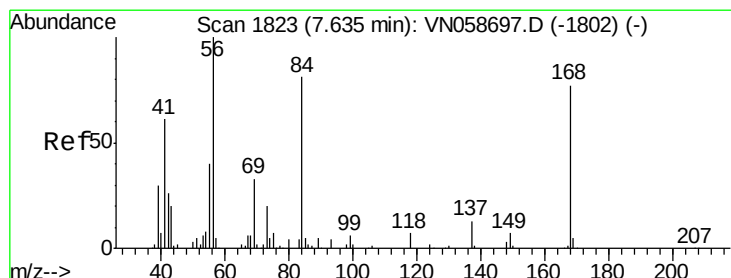
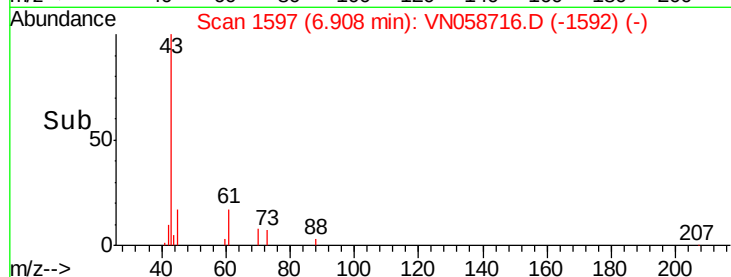
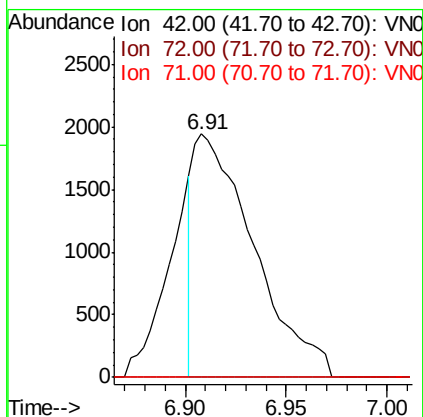
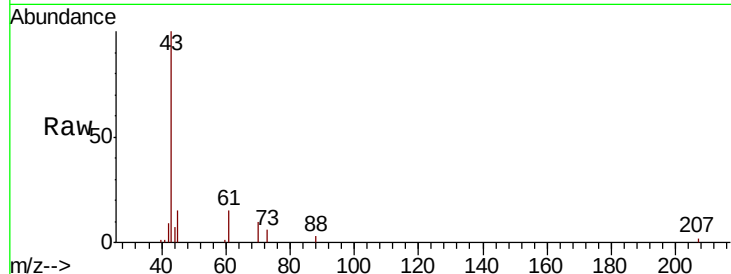




#29
Tetrahydrofuran
Concen: 1.733 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. -0.28 min
Lab File: VN058716.D
Acq: 11 Oct 2019 20:46

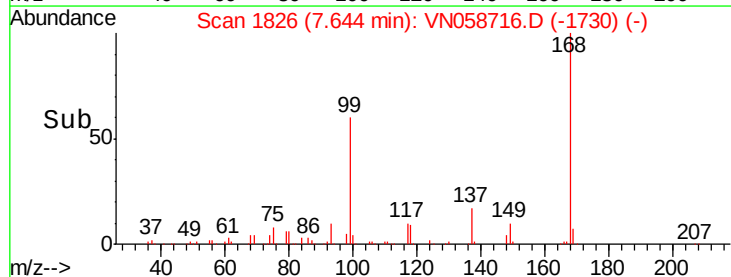
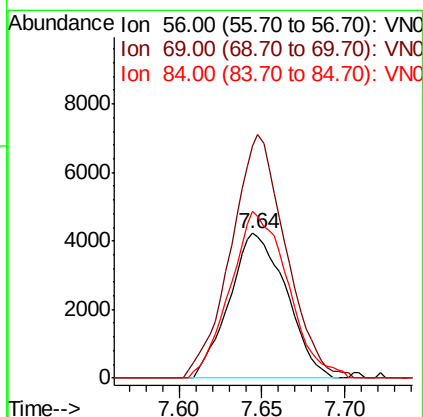
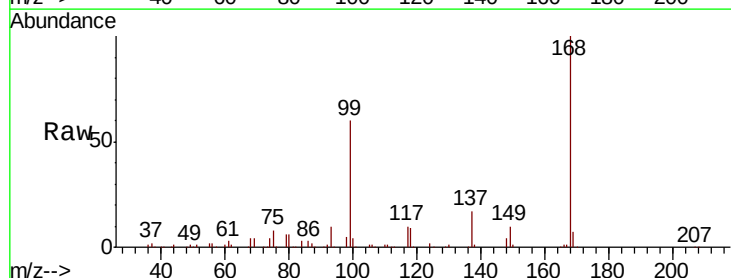
Instrument :
MSVOA_N
ClientSampleId :
FA19-USMW025-9001

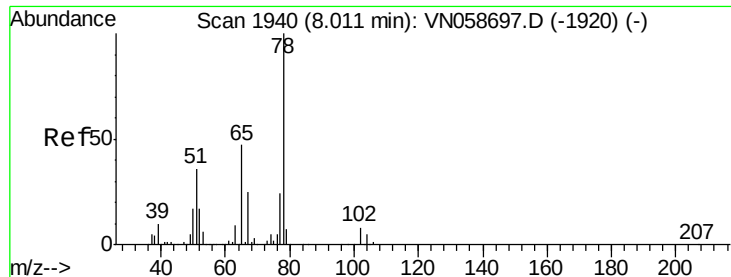
Tot Ion: 42 Resp: 3998
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 31.1 46.7#



#31
Cyclohexane
Concen: 1.154 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058716.D
Acq: 11 Oct 2019 20:46

Tgt Ion: 56 Resp: 10098
Ion Ratio Lower Upper
56 100
69 156.4 26.2 39.4#
84 115.1 64.9 97.3#

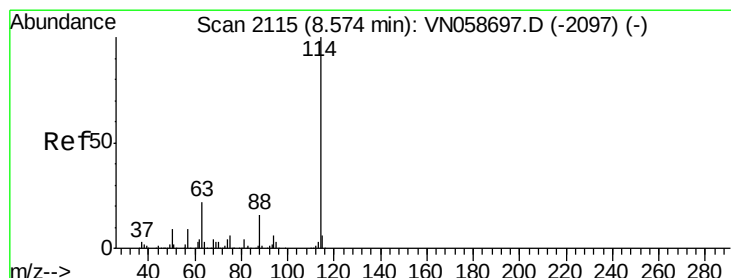
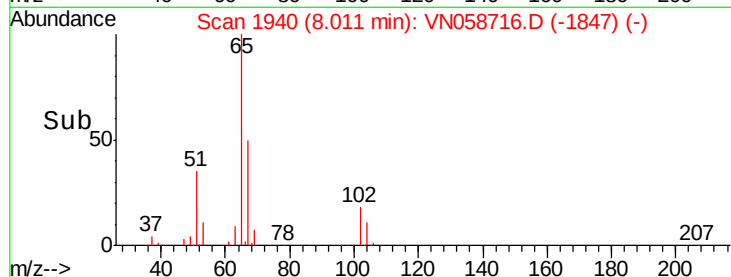
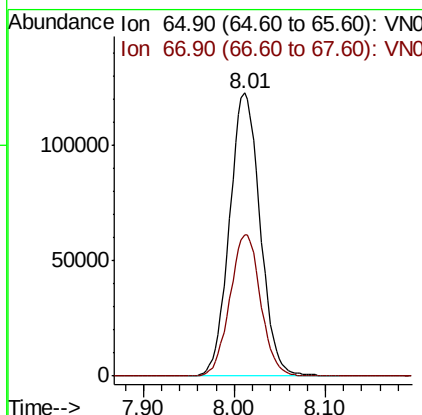
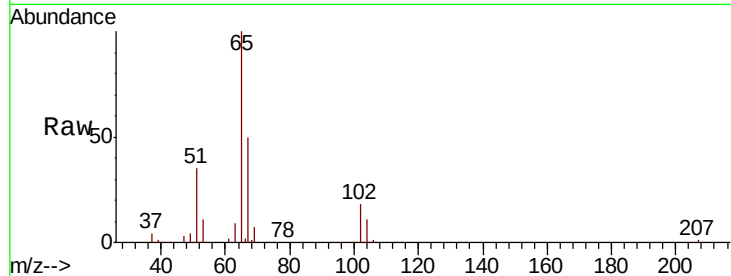




#33
 1,2-Dichloroethane-d4
 Concen: 48.174 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058716.D
 Acq: 11 Oct 2019 20:46

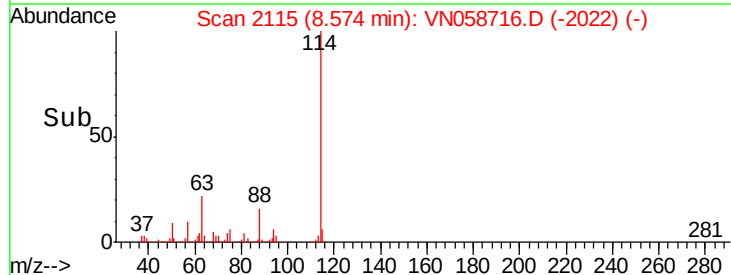
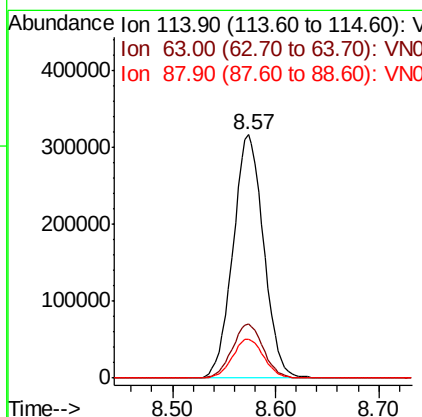
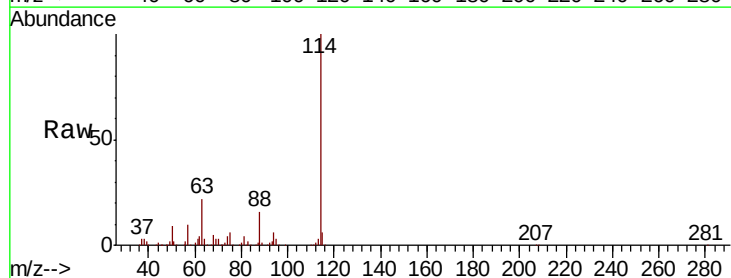
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 ClientSampleId :
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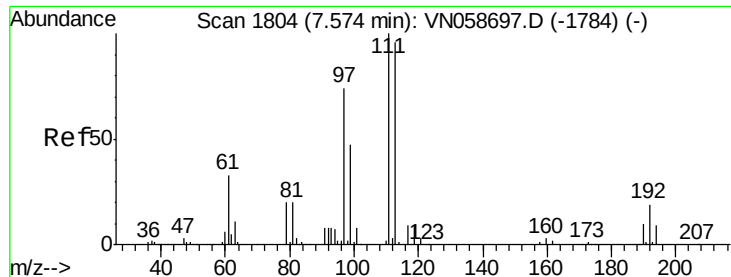
Tot Ion: 65 Resp: 287416
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058716.D
 Acq: 11 Oct 2019 20:46

Tgt Ion: 114 Resp: 656742
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.8
 88 16.2 0.0 32.0

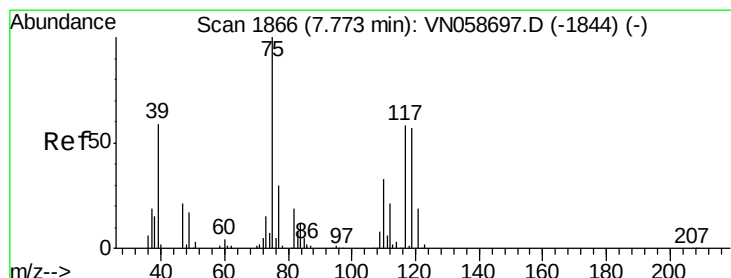
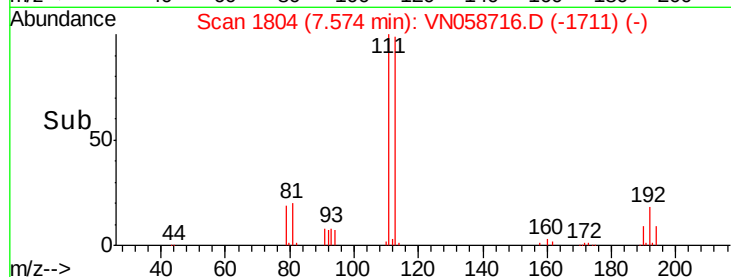
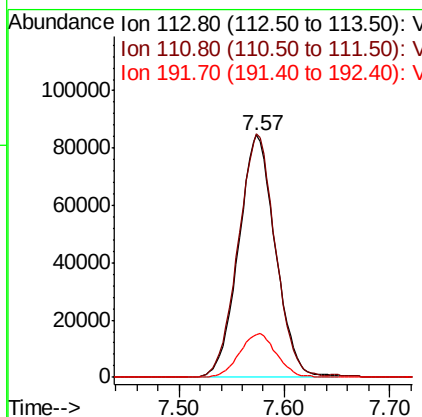
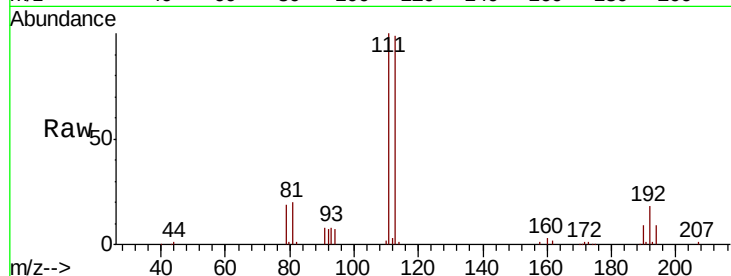




#35
 Dibromofluoromethane
 Concen: 50.522 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058716.D
 Acq: 11 Oct 2019 20:46

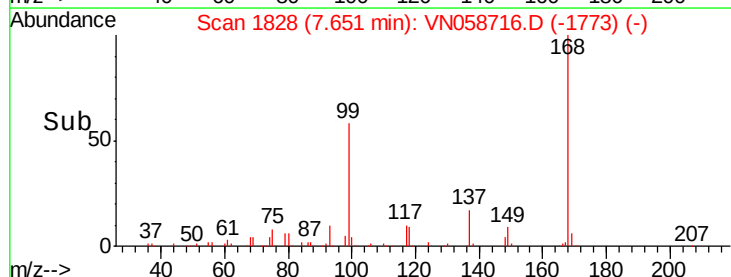
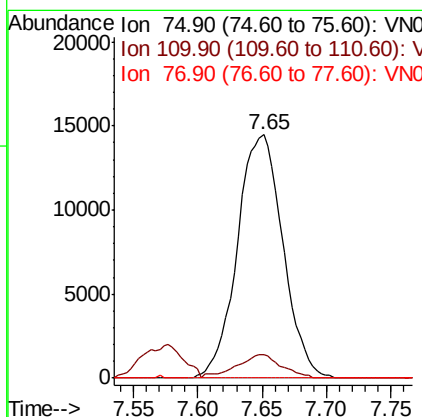
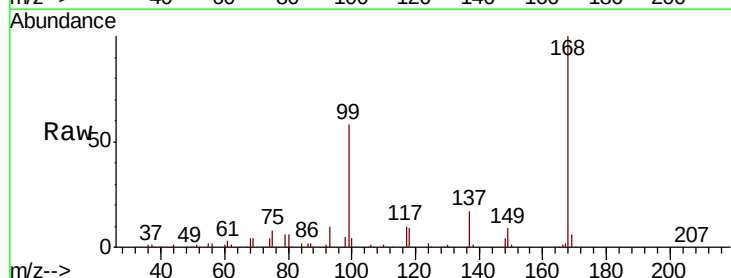
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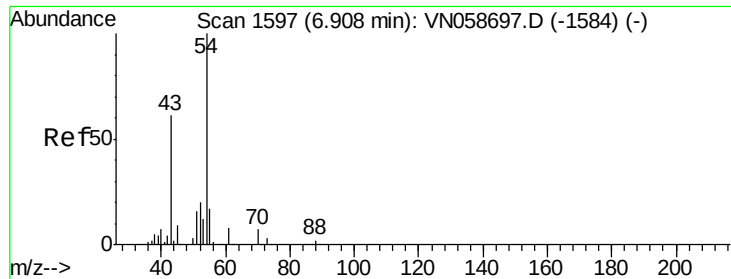
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.3	123.5
192	18.2	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 5.351 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.12 min
 Lab File: VN058716.D
 Acq: 11 Oct 2019 20:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	16.6	49.8#
77	0.0	24.6	37.0#





#37

Ethyl Acetate

Concen: 9.833 ug/l

RT: 6.91 min Scan# 1599

Delta R.T. 0.01 min

Lab File: VN058716.D

Acq: 11 Oct 2019 20:46

Instrument :

MSVOA_N

ClientSampleId :

FA19-USMW025-9001

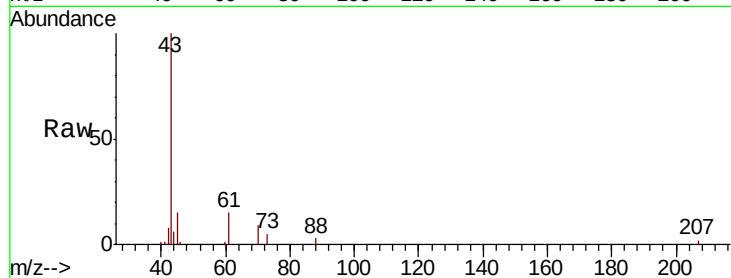
Tot Ion: 43 Resp: 66029

Ion Ratio Lower Upper

43 100

61 13.9 11.3 16.9

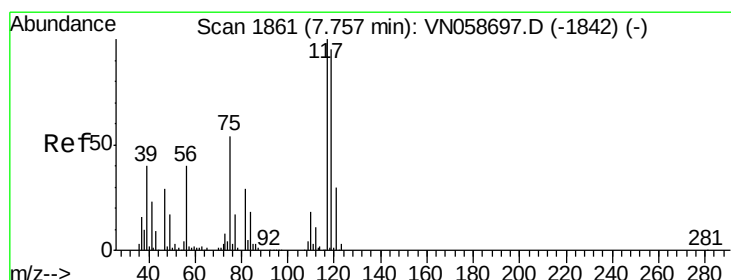
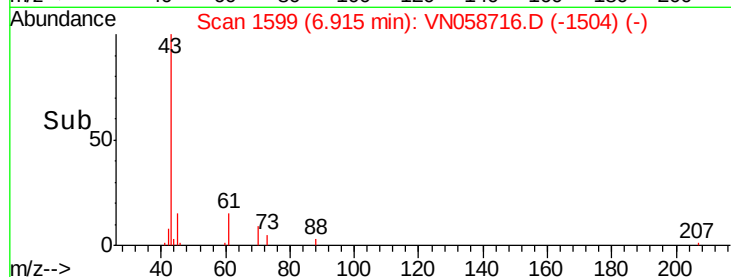
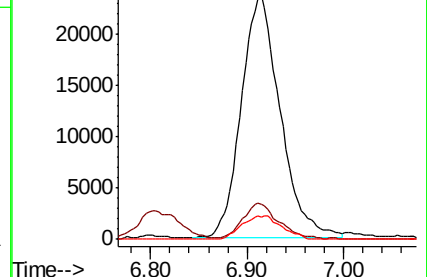
70 10.0 7.2 10.8



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-1584) (-)

Ion 60.90 (60.60 to 61.60): VN058697.D (-1584) (-)

Ion 70.00 (69.70 to 70.70): VN058697.D (-1584) (-)



#38

Carbon Tetrachloride

Concen: 6.486 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058716.D

Acq: 11 Oct 2019 20:46

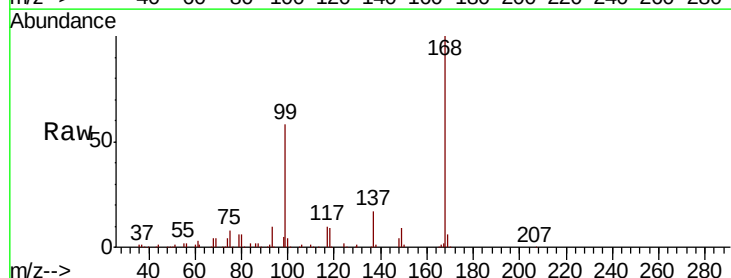
Tgt Ion: 117 Resp: 41973

Ion Ratio Lower Upper

117 100

119 4.1 75.7 113.5#

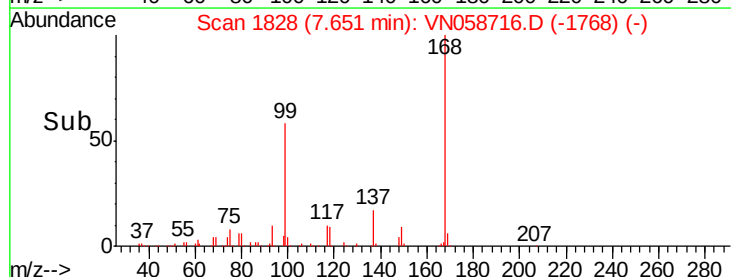
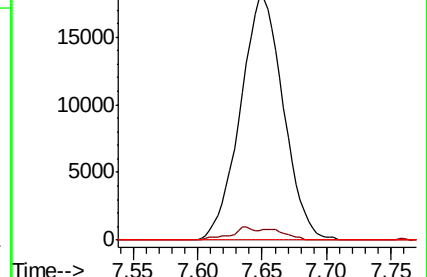
121 0.0 23.9 35.9#

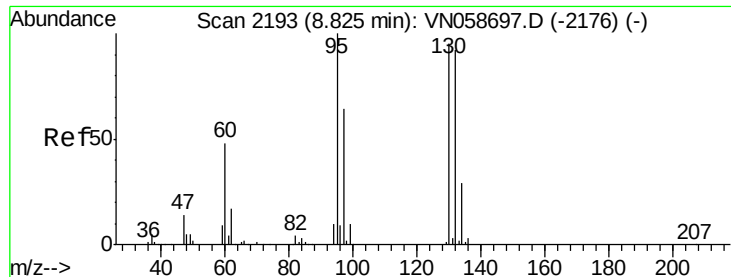


Abundance Ion 116.80 (116.50 to 117.50): VN058697.D (-1842) (-)

Ion 118.80 (118.50 to 119.50): VN058697.D (-1842) (-)

Ion 120.80 (120.50 to 121.50): VN058697.D (-1842) (-)





#44

Trichloroethene

Concen: 2.896 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058716.D

Acq: 11 Oct 2019 20:46

Instrument :

MSVOA_N

ClientSampleId :

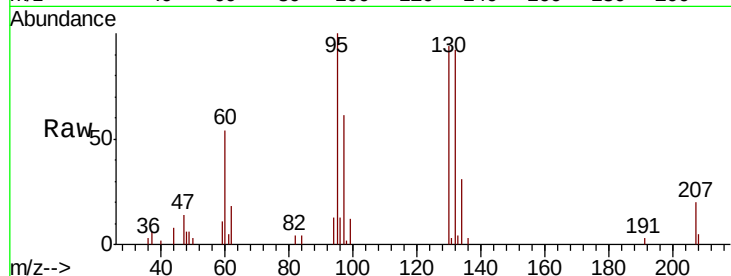
FA19-USMW025-9001

Tot Ion:130 Resp: 13713

Ion Ratio Lower Upper

130 100

95 105.8 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): VN058697.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058697.D (-2176) (-)

8.82

6000

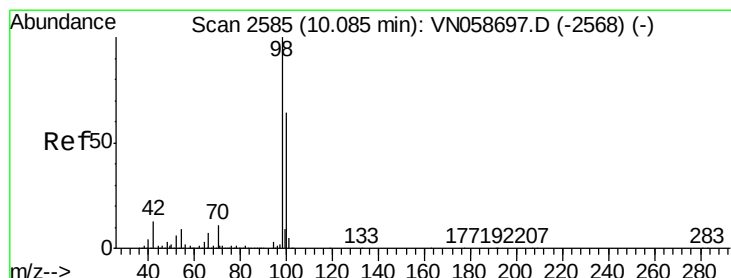
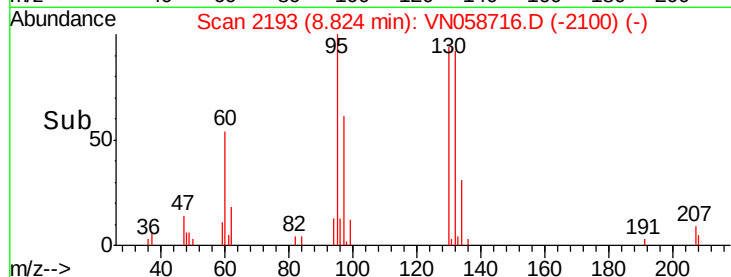
4000

2000

0

8.75 8.80 8.85 8.90

Time-->



#50

Toluene-d8

Concen: 48.666 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058716.D

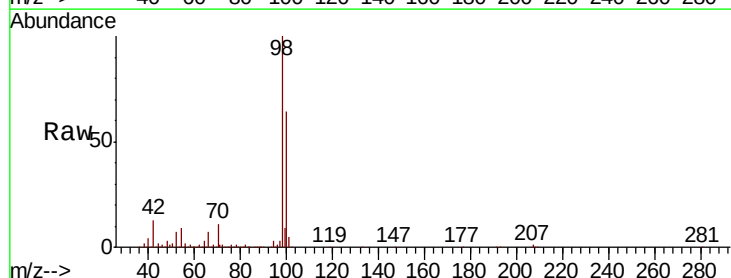
Acq: 11 Oct 2019 20:46

Tgt Ion: 98 Resp: 789435

Ion Ratio Lower Upper

98 100

100 64.2 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058697.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058697.D (-2568) (-)

10.08

500000

400000

300000

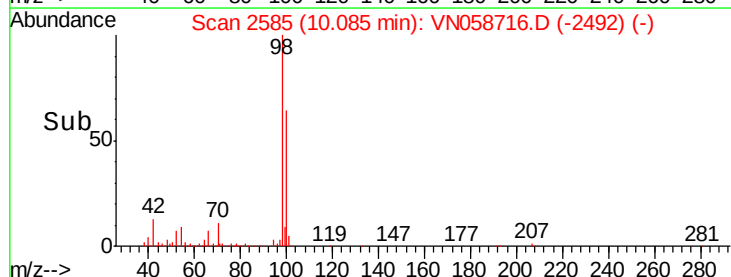
200000

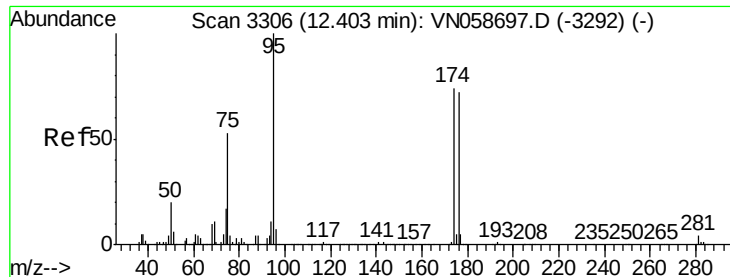
100000

0

10.00 10.10

Time-->





#62

4-Bromofluorobenzene

Concen: 42.968 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058716.D

Acq: 11 Oct 2019 20:46

Instrument :

MSVOA_N

ClientSampleId :

FA19-USMW025-9001

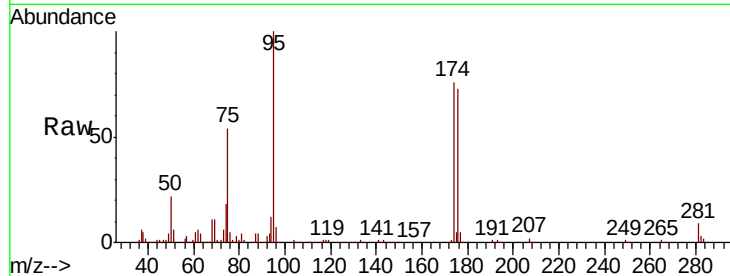
Tot Ion: 95 Resp: 263837

Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.4

176 73.0 0.0 146.8



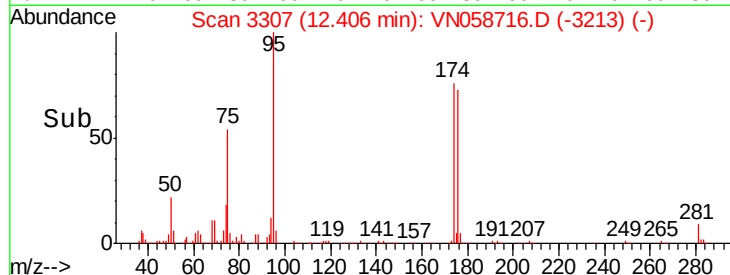
Abundance Ion 94.90 (94.60 to 95.60): VN058697.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058697.D (-3292) (-)

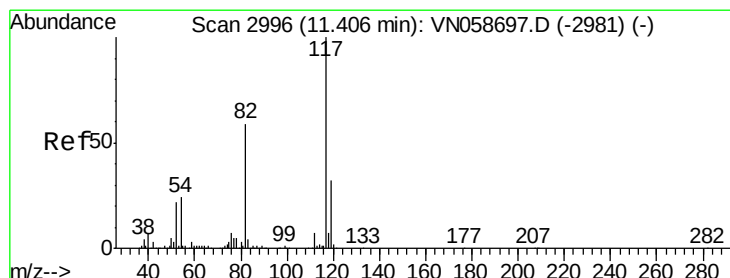
Ion 175.80 (175.50 to 176.50): VN058697.D (-3292) (-)

12.41

12.40 12.50



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058716.D

Acq: 11 Oct 2019 20:46

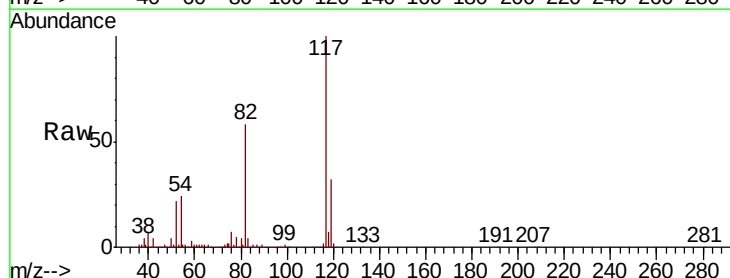
Tgt Ion: 117 Resp: 579984

Ion Ratio Lower Upper

117 100

82 58.1 47.0 70.4

119 31.6 25.4 38.2



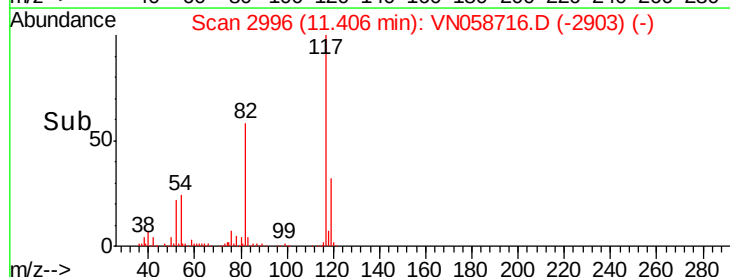
Abundance Ion 116.90 (116.60 to 117.60): VN058697.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058697.D (-2981) (-)

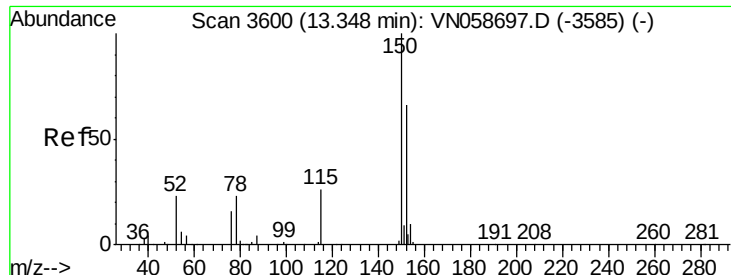
Ion 118.90 (118.60 to 119.60): VN058697.D (-2981) (-)

11.41

11.30 11.40 11.50



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058716.D

Acq: 11 Oct 2019 20:46

Instrument :

MSVOA_N

ClientSampleId :

FA19-USMW025-9001

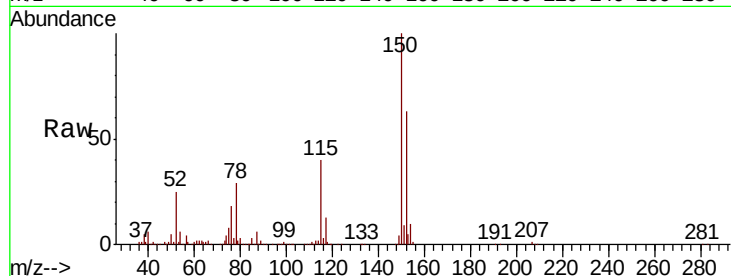
Tot Ion:152 Resp: 234617

Ion Ratio Lower Upper

152 100

115 61.9 30.4 91.2

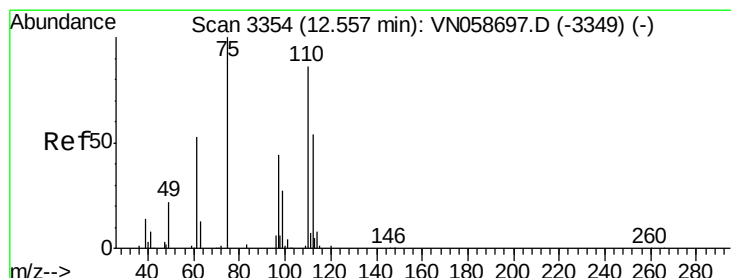
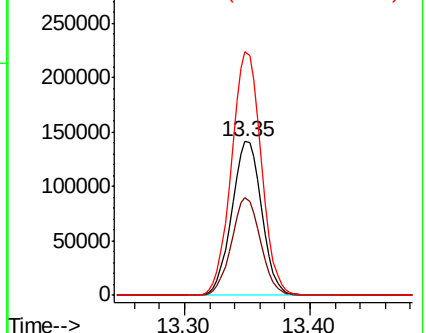
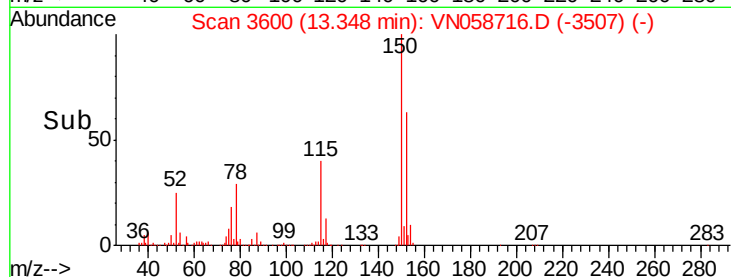
150 157.4 0.0 345.4



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: 27.448 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058716.D

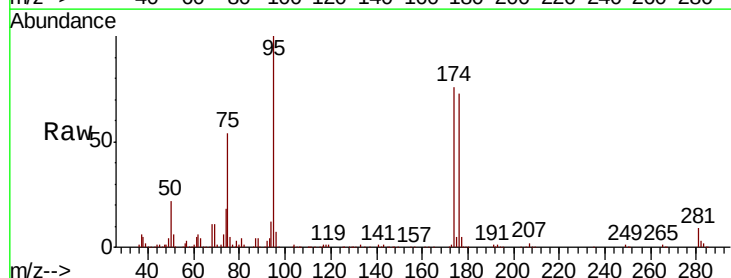
Acq: 11 Oct 2019 20:46

Tgt Ion: 75 Resp: 141271

Ion Ratio Lower Upper

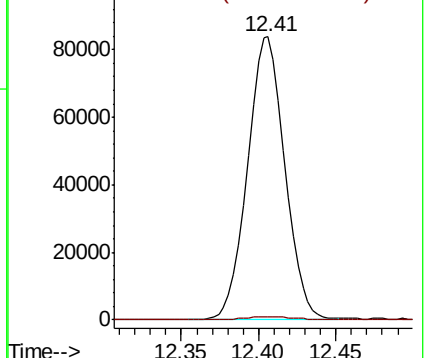
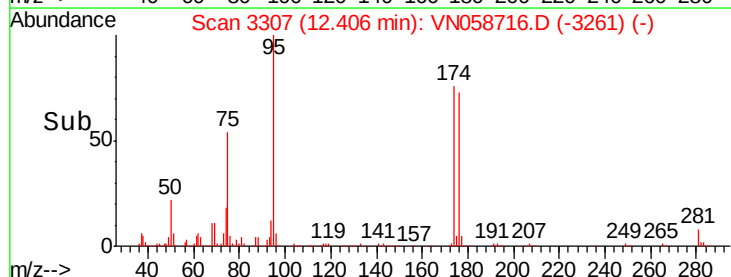
75 100

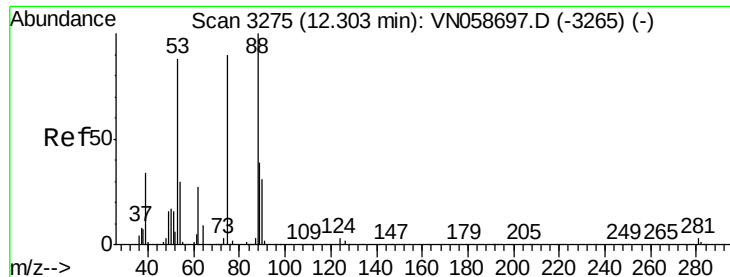
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 73.523 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058716.D

Acq: 11 Oct 2019 20:46

Instrument :

MSVOA_N

ClientSampleId :

FA19-USMW025-9001

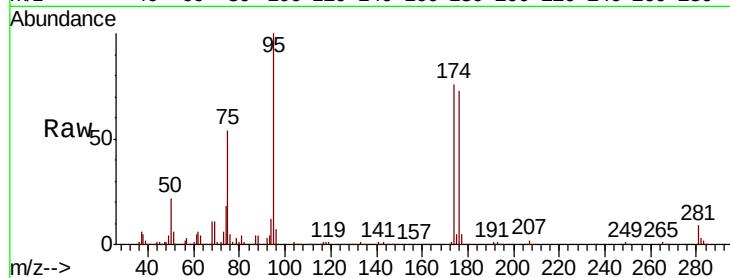
Tot Ion: 75 Resp: 141271

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.2 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

