

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101519\
 Data File : VN058788.D
 Acq On : 15 Oct 2019 17:22
 Operator : JC/SP
 Sample : K5358-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 20190897-AMENDED-COMP-KM-CA

Quant Time: Oct 16 04:19:01 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	360351	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	571548	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	505927	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	200559	50.00	ug/l	0.00

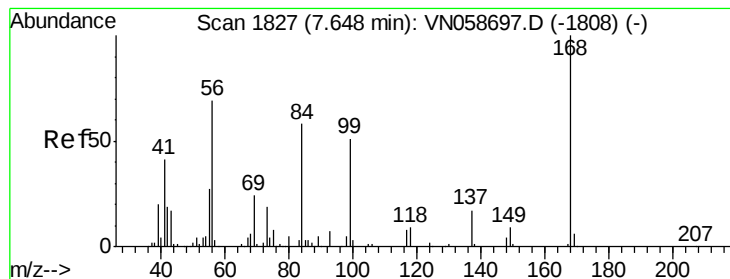
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	264667	52.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.92%	
35) Dibromofluoromethane	7.57	113	95375	27.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	54.04%	
50) Toluene-d8	10.08	98	710896	50.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.72%	
62) 4-Bromofluorobenzene	12.40	95	230889	43.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.42%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.76	59	28664	35.083	ug/l	98
16) Acetone	3.80	43	29370	14.062	ug/l	99
17) Carbon Disulfide	4.04	76	4790	0.433	ug/l	95
20) Methylene Chloride	4.53	84	12215	2.798	ug/l	93
25) 2-Butanone	6.83	43	6706	2.221	ug/l #	82
29) Tetrahydrofuran	7.21	42	581	0.298	ug/l #	35
31) Cyclohexane	7.65	56	9602	1.298	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	31034	5.370	ug/l #	50
37) Ethyl Acetate	6.83	43	6706	1.147	ug/l #	69
38) Carbon Tetrachloride	7.65	117	36161	6.421	ug/l #	16
43) Isopropyl Acetate	8.12	43	5276	0.530	ug/l #	60
48) Methyl methacrylate	9.16	41	1110	0.246	ug/l #	32
58) 2-Chloroethyl Vinyl ether	9.80	63	729	0.249	ug/l #	50
59) 2-Hexanone	10.75	43	1169	0.271	ug/l #	60
74) N-amyl acetate	12.03	43	2007	0.308	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	124138	28.215	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	124138	75.578	ug/l #	11
95) Naphthalene	15.13	128	4649	0.418	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

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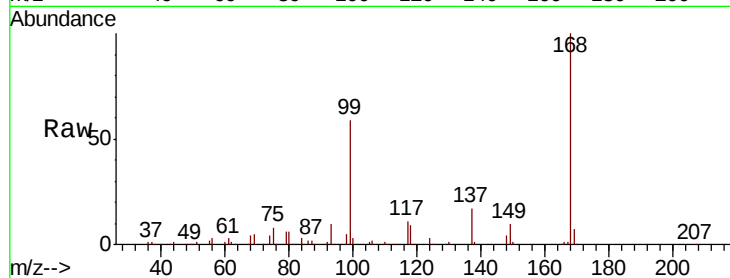
20190897-AMENDED-COMP-KM-CA

Tot Ion:168 Resp: 360351

Ion Ratio Lower Upper

168 100

99 59.4 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

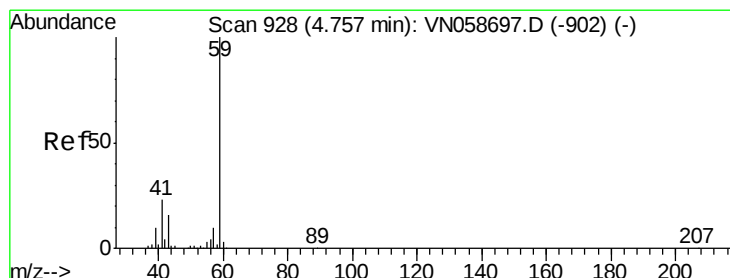
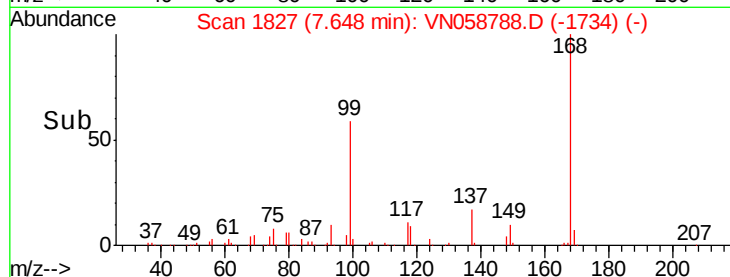
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 35.083 ug/l

RT: 4.76 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN058788.D

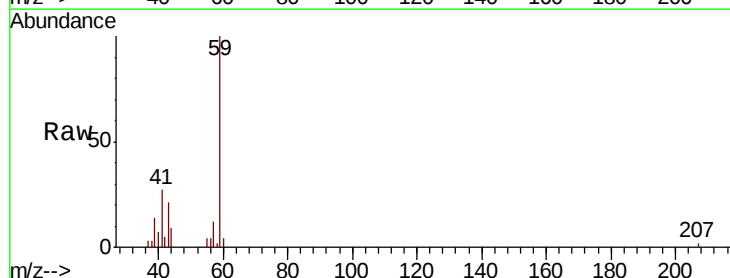
Acq: 15 Oct 2019 17:22

Tgt Ion: 59 Resp: 28664

Ion Ratio Lower Upper

59 100

57 9.7 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.76

8000

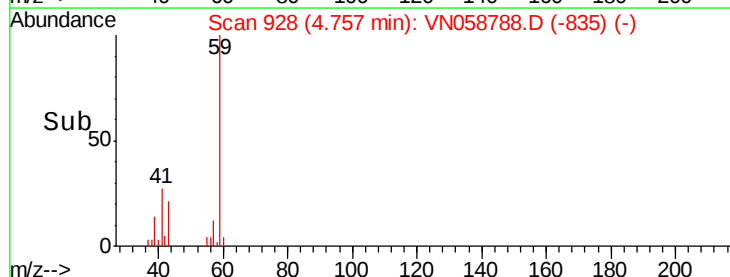
6000

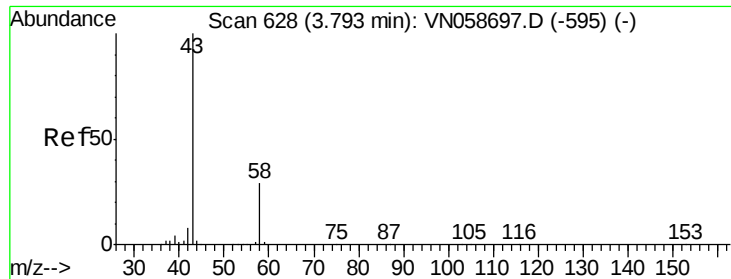
4000

2000

0

Time-->





#16

Acetone

Concen: 14.062 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058788.D

Acq: 15 Oct 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

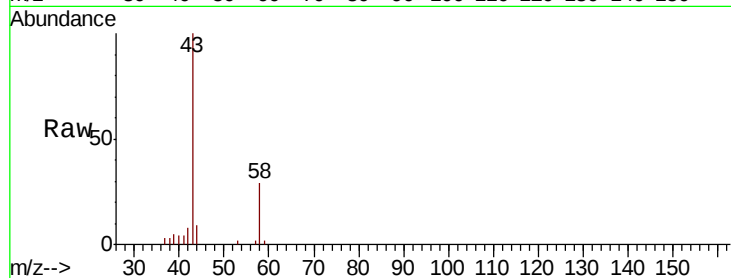
20190897-AMENDED-COMP-KM-CA

Tot Ion: 43 Resp: 29370

Ion Ratio Lower Upper

43 100

58 28.5 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN058697.D (-595) (-)

12000

10000

8000

6000

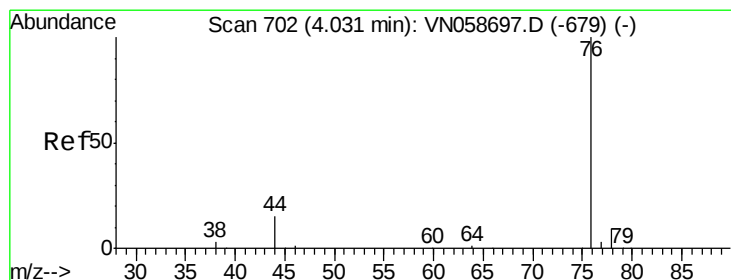
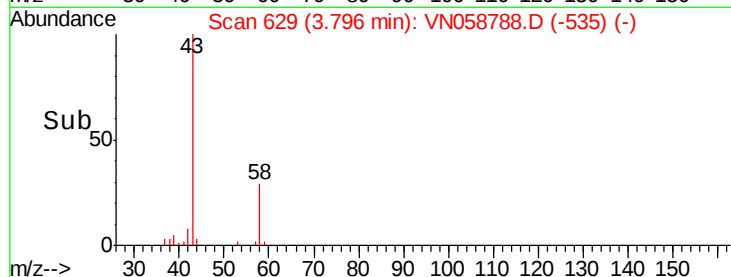
4000

2000

0

3.70 3.80 3.90

Time-->



#17

Carbon Disulfide

Concen: 0.433 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VN058788.D

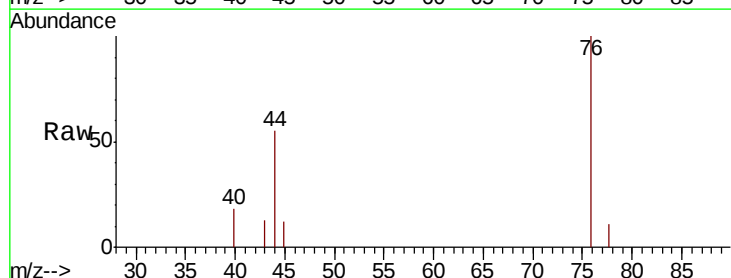
Acq: 15 Oct 2019 17:22

Tgt Ion: 76 Resp: 4790

Ion Ratio Lower Upper

76 100

78 10.6 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VN058697.D (-679) (-)

Ion 77.90 (77.60 to 78.60): VN058697.D (-679) (-)

2000

1500

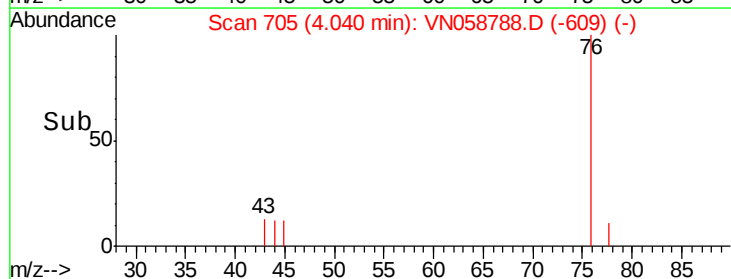
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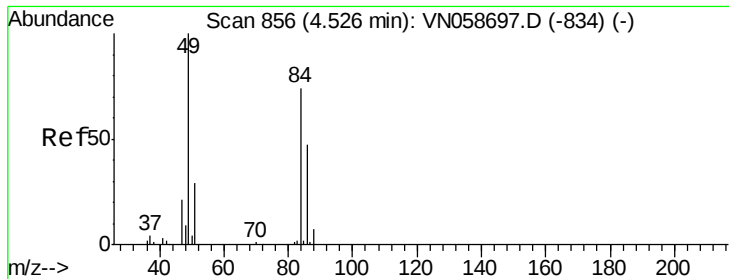
500

0

3.95 4.00 4.05 4.10

Time-->

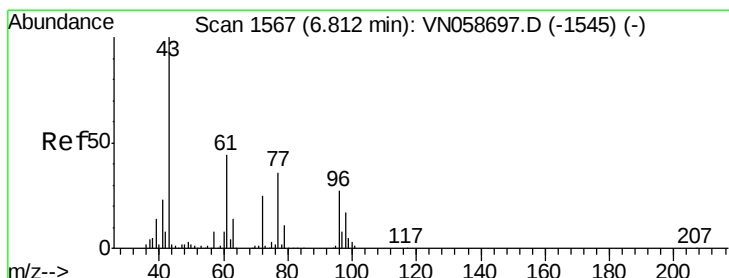
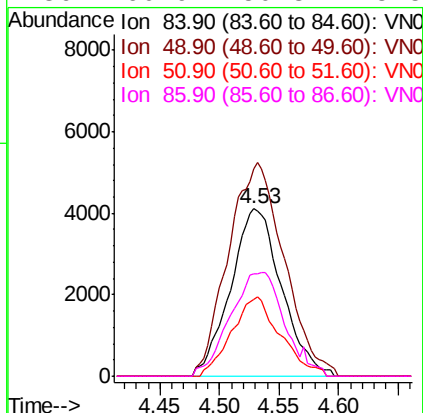
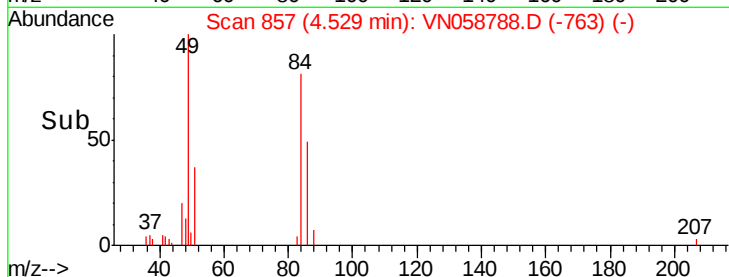
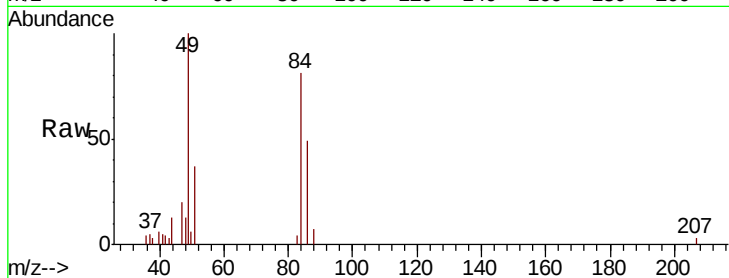




#20
Methylene Chloride
Concen: 2.798 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

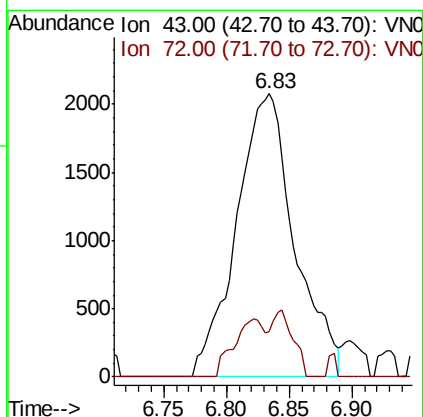
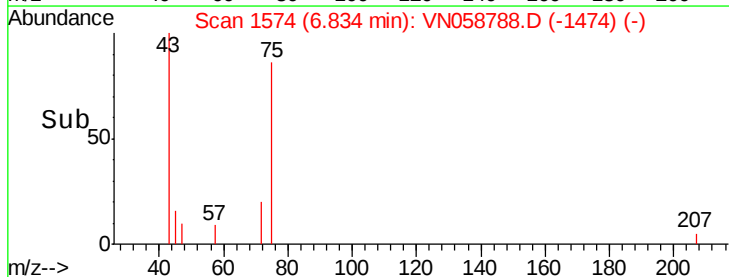
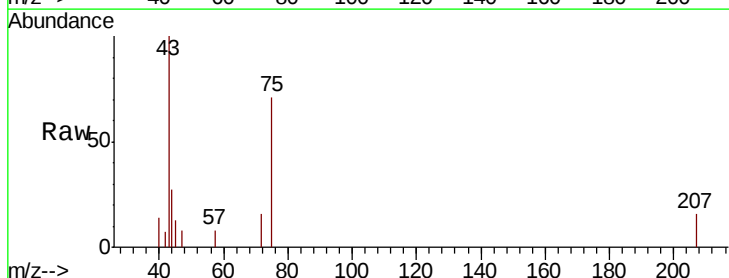
Instrument :
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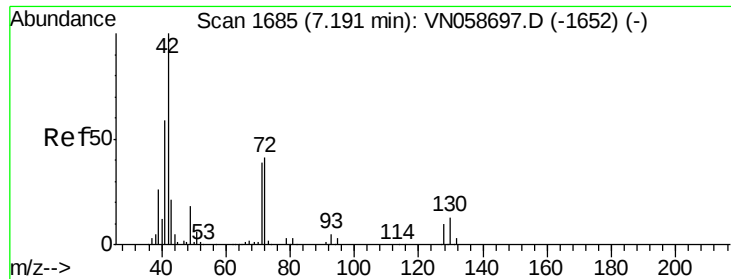
Tot Ion: 84 Resp: 12215
Ion Ratio Lower Upper
84 100
49 124.0 107.6 161.4
51 45.6 31.4 47.0
86 60.9 50.3 75.5



#25
2-Butanone
Concen: 2.221 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

Tgt Ion: 43 Resp: 6706
Ion Ratio Lower Upper
43 100
72 16.1 20.2 30.2#

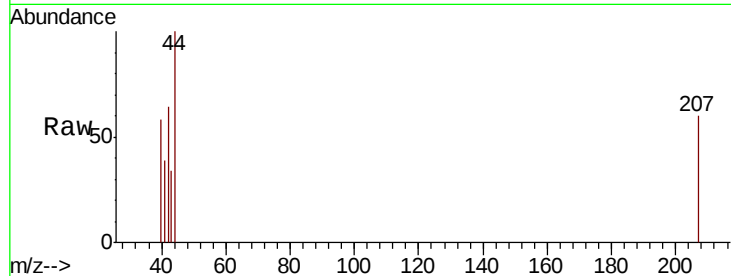




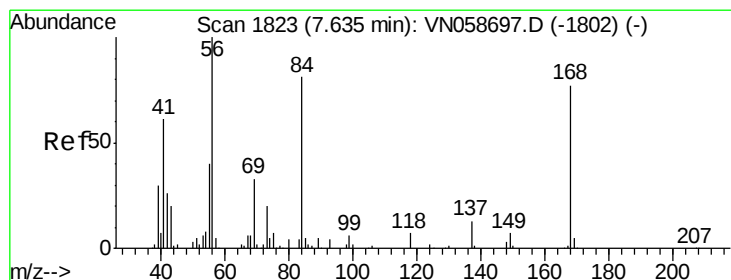
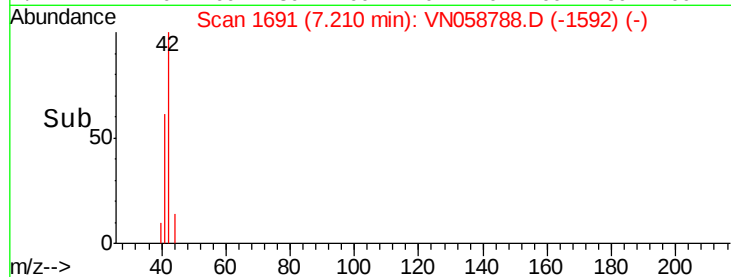
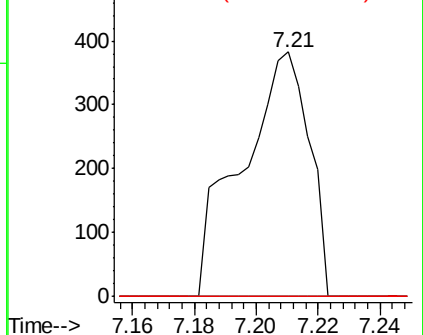
#29
Tetrahydrofuran
Concen: 0.298 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.02 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion: 42 Resp: 581
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 0.0 31.1 46.7#

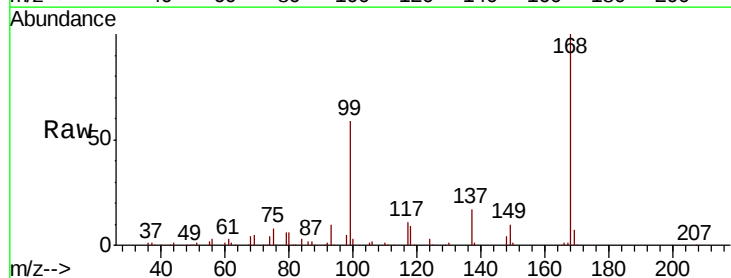


Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO

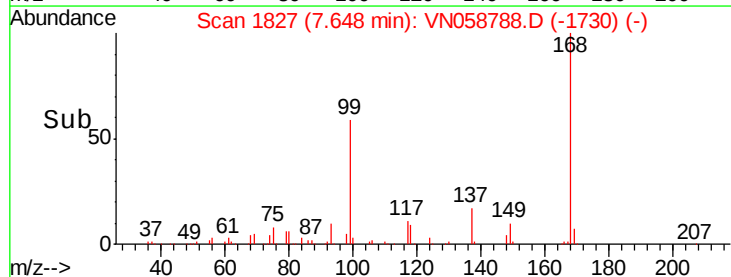
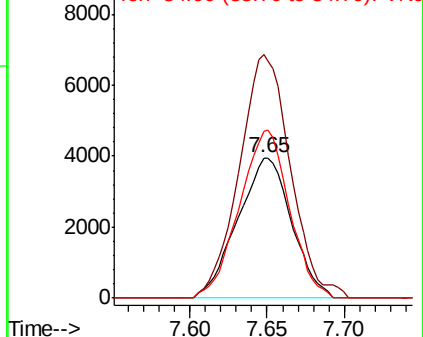


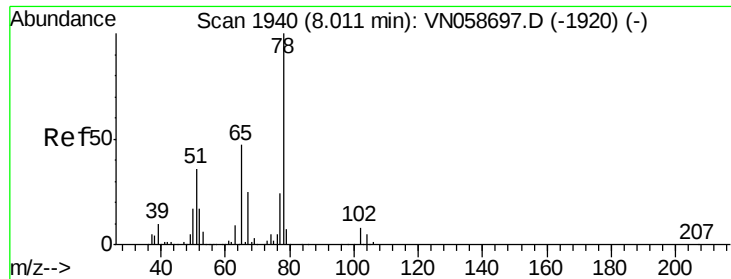
#31
Cyclohexane
Concen: 1.298 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

Tgt Ion: 56 Resp: 9602
Ion Ratio Lower Upper
56 100
69 173.4 26.2 39.4#
84 118.5 64.9 97.3#



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: 52.463 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058788.D

Acq: 15 Oct 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

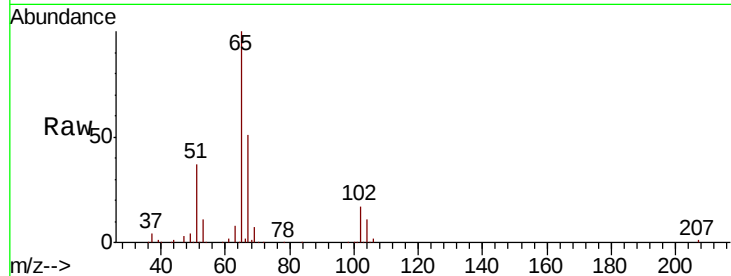
20190897-AMENDED-COMP-KM-CA

Tot Ion: 65 Resp: 264667

Ion Ratio Lower Upper

65 100

67 50.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN058788.D (-1847) (-)

Ion 66.90 (66.60 to 67.60): VN058788.D (-1847) (-)

8.01

120000

100000

80000

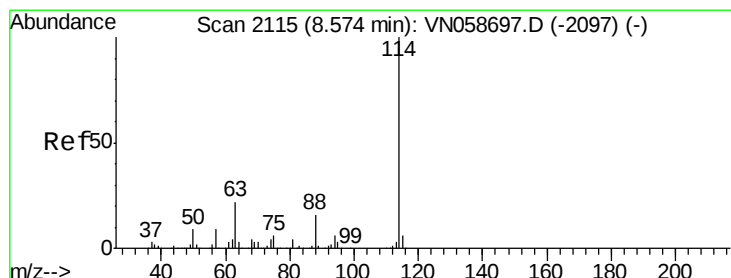
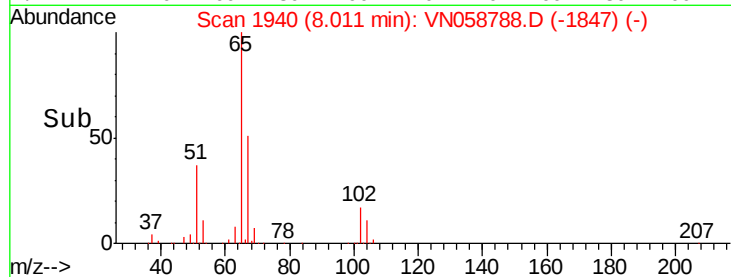
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058788.D

Acq: 15 Oct 2019 17:22

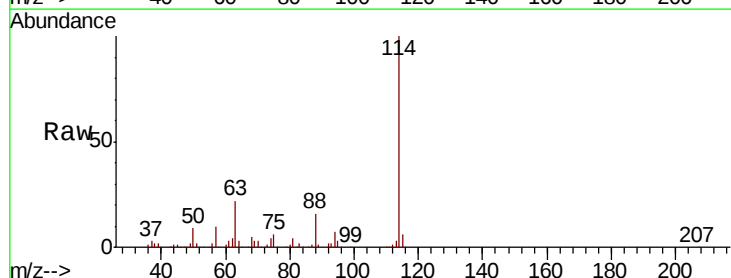
Tgt Ion: 114 Resp: 571548

Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.8

88 16.2 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VN058788.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058788.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058788.D (-2022) (-)

8.57

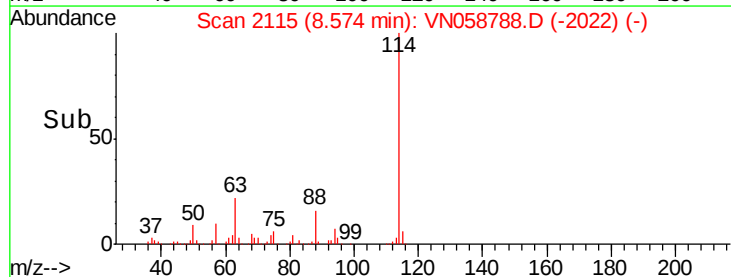
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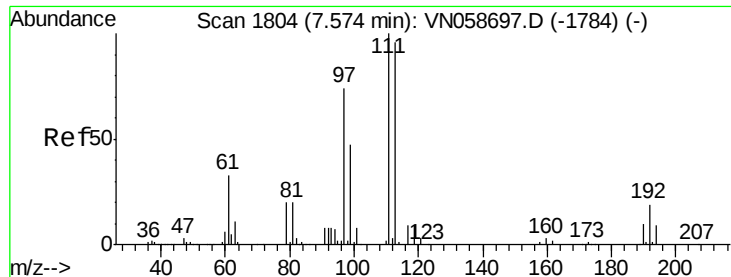
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100000

0

Time-->

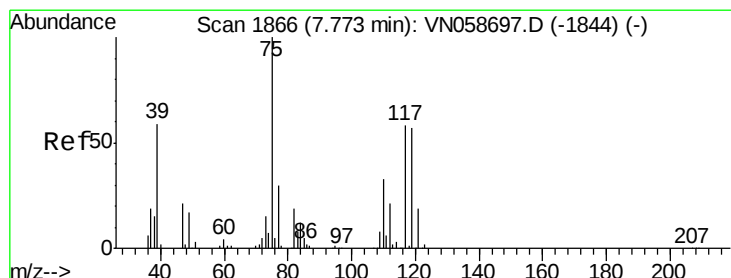
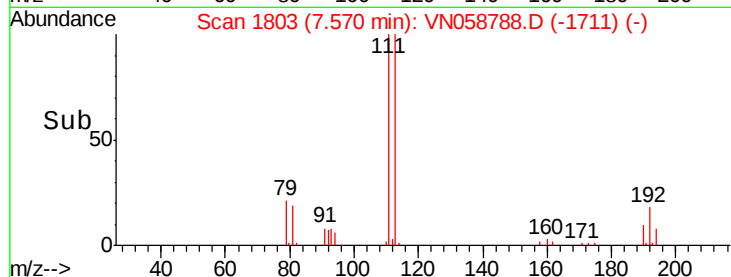
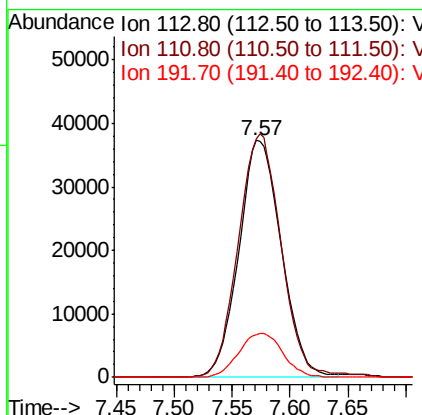
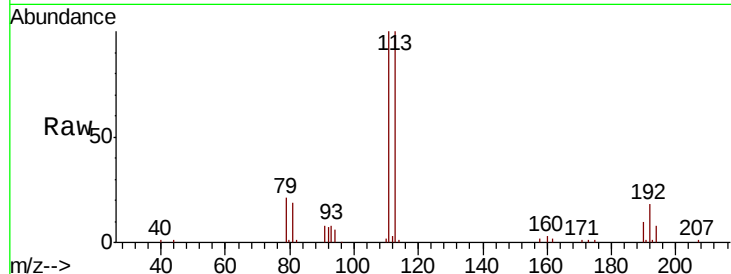




#35
Dibromofluoromethane
Concen: 27.016 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

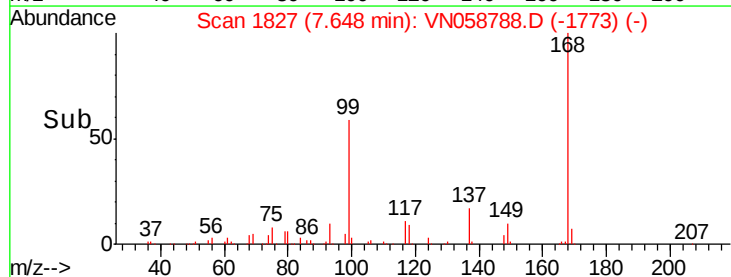
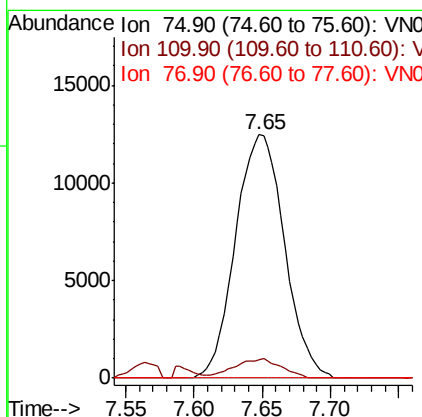
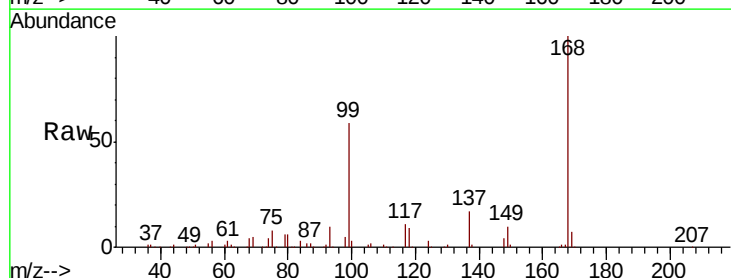
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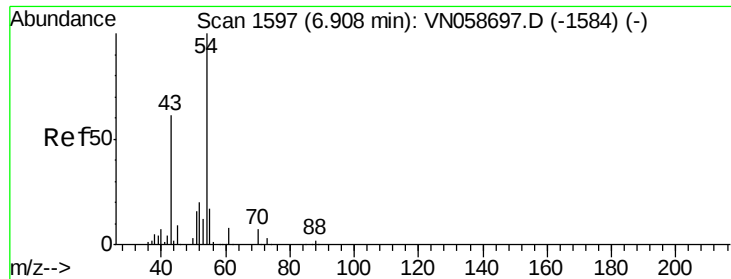
Tot Ion:113 Resp: 95375
Ion Ratio Lower Upper
113 100
111 103.7 82.3 123.5
192 19.2 15.0 22.6



#36
1,1-Dichloropropene
Concen: 5.370 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.13 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

Tgt Ion: 75 Resp: 31034
Ion Ratio Lower Upper
75 100
110 7.8 16.6 49.8#
77 0.0 24.6 37.0#

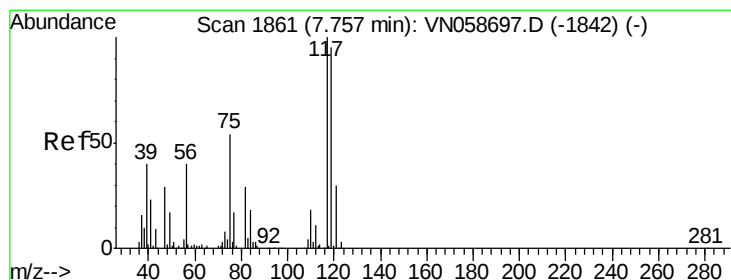
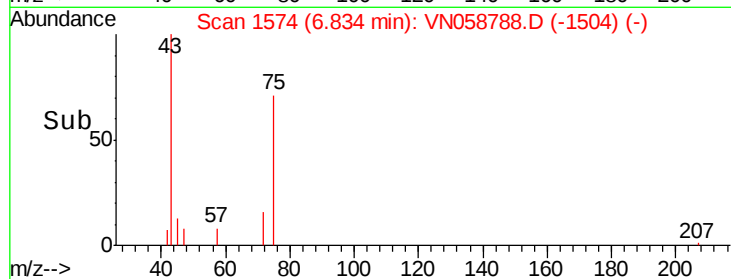
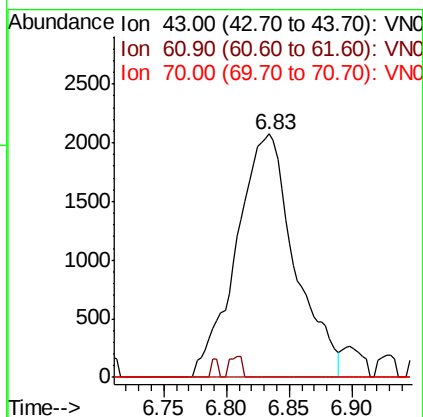
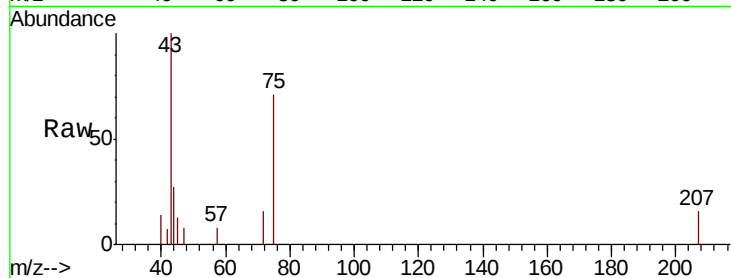




#37
Ethyl Acetate
Concen: 1.147 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.07 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

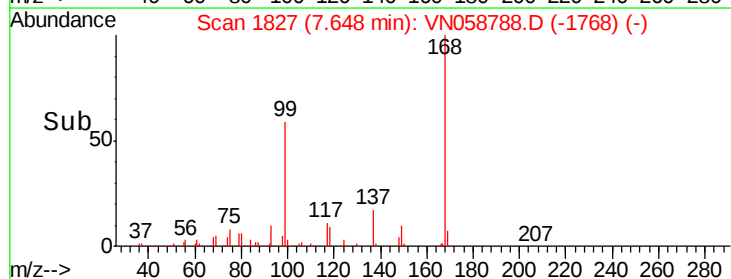
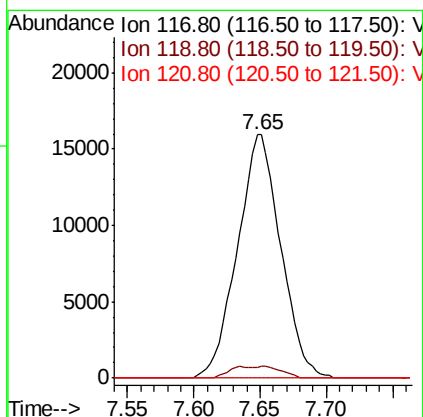
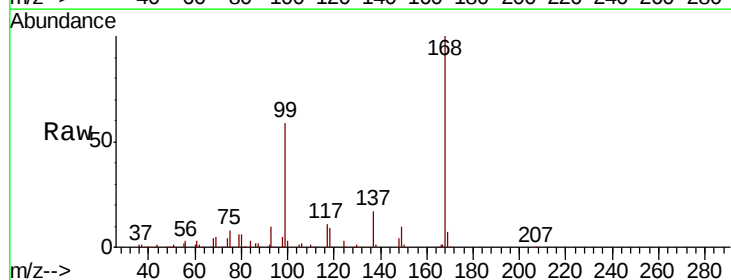
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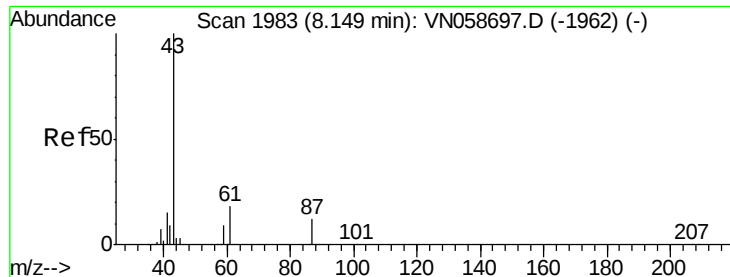
Tot Ion: 43 Resp: 6706
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 6.421 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

Tgt Ion: 117 Resp: 36161
Ion Ratio Lower Upper
117 100
119 4.4 75.7 113.5#
121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 0.530 ug/l

RT: 8.12 min Scan# 1973

Delta R.T. -0.03 min

Lab File: VN058788.D

Acq: 15 Oct 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

20190897-AMENDED-COMP-KM-CA

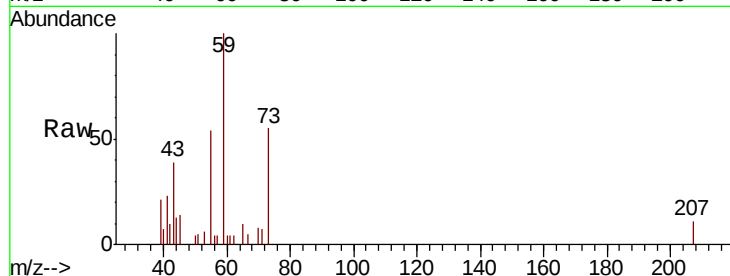
Tot Ion: 43 Resp: 5276

Ion Ratio Lower Upper

43 100

61 3.1 20.3 30.5#

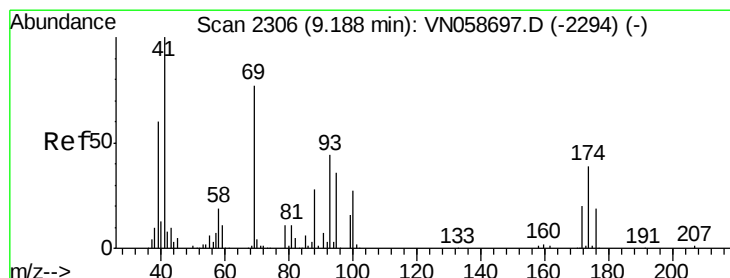
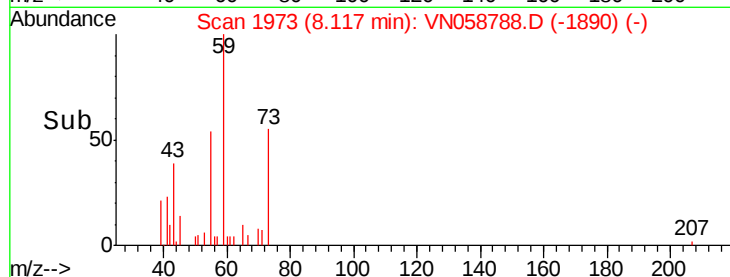
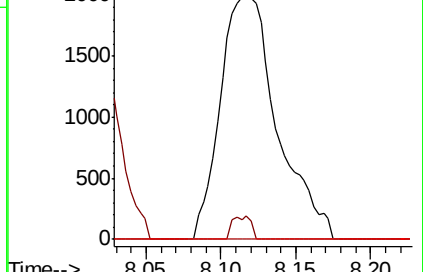
87 0.0 9.8 14.6#



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN058697.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN058697.D (-1962) (-)



#48

Methyl methacrylate

Concen: 0.246 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.03 min

Lab File: VN058788.D

Acq: 15 Oct 2019 17:22

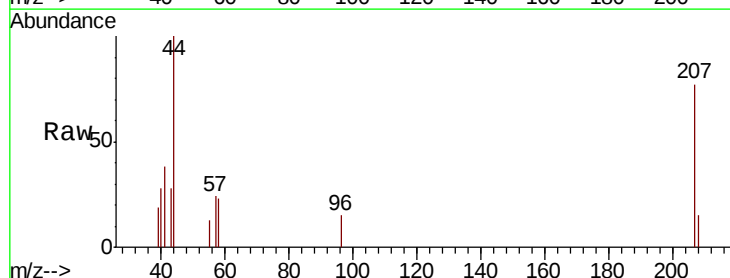
Tgt Ion: 41 Resp: 1110

Ion Ratio Lower Upper

41 100

69 0.0 63.4 95.2#

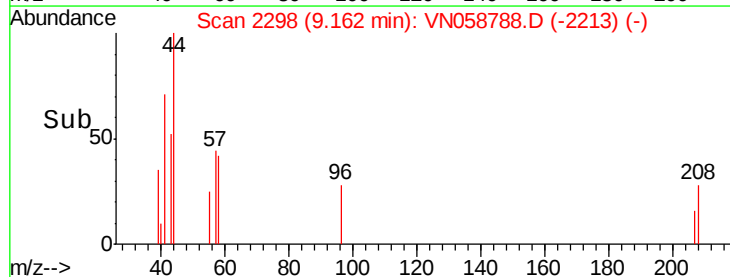
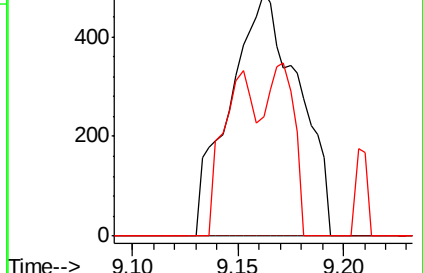
39 31.4 48.9 73.3#

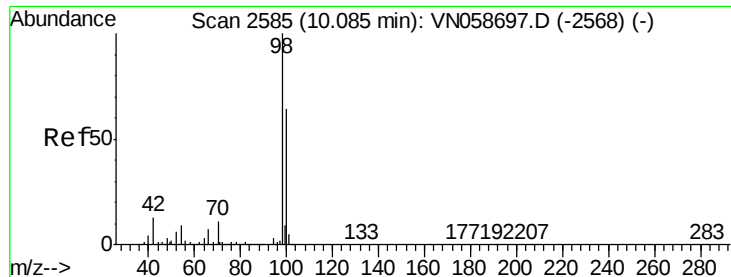


Abundance Ion 41.00 (40.70 to 41.70): VN058697.D (-2294) (-)

Ion 69.00 (68.70 to 69.70): VN058697.D (-2294) (-)

Ion 39.00 (38.70 to 39.70): VN058697.D (-2294) (-)





#50

Toluene-d8

Concen: 50.356 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058788.D

Acq: 15 Oct 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

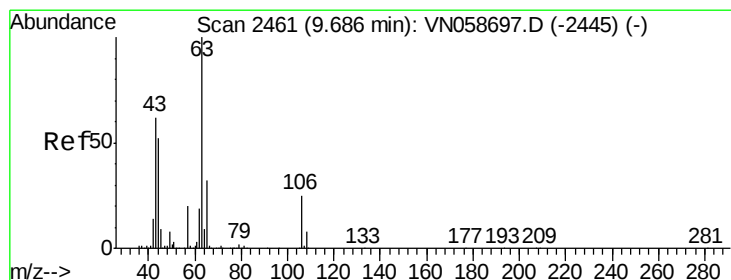
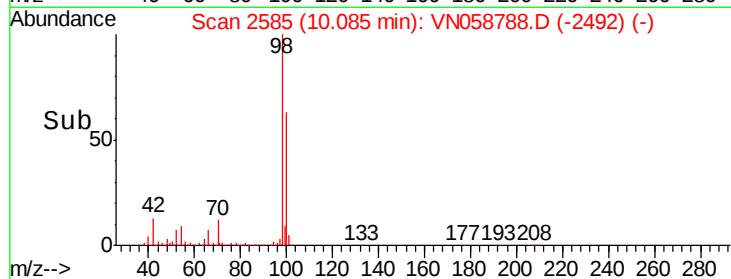
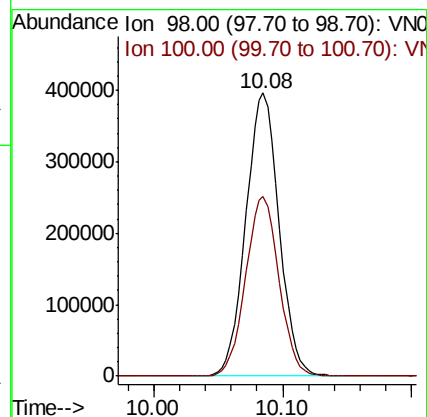
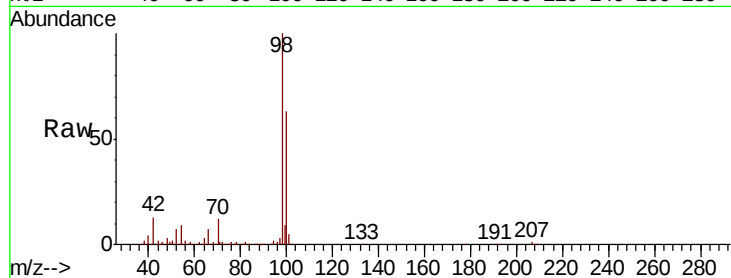
20190897-AMENDED-COMP-KM-CA

Tot Ion: 98 Resp: 710896

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



#58

2-Chloroethyl Vinyl ether

Concen: 0.249 ug/l

RT: 9.80 min Scan# 2495

Delta R.T. 0.11 min

Lab File: VN058788.D

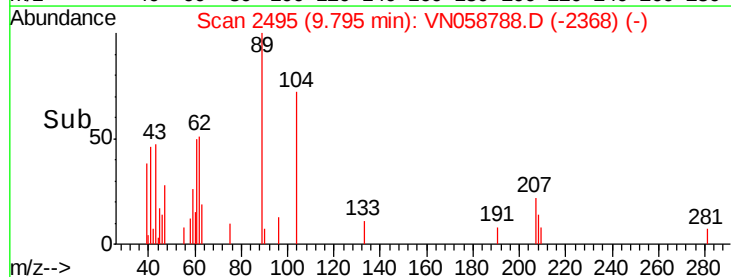
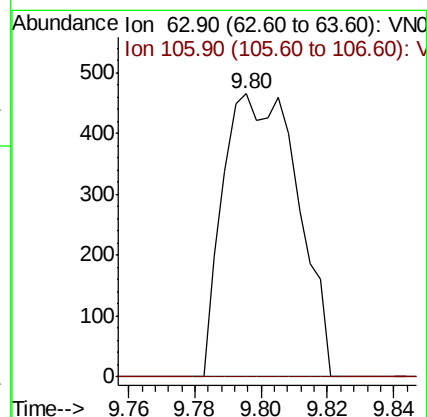
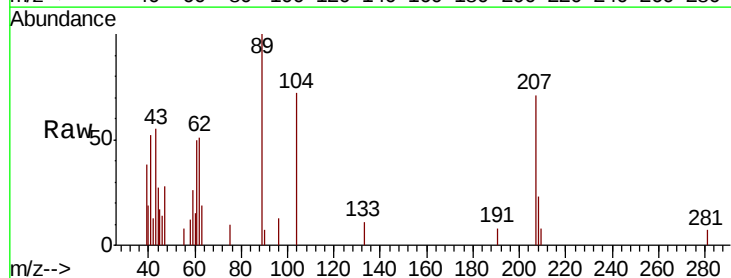
Acq: 15 Oct 2019 17:22

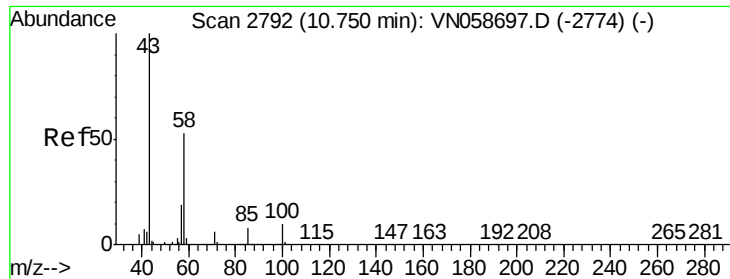
Tgt Ion: 63 Resp: 729

Ion Ratio Lower Upper

63 100

106 0.0 20.0 30.0#





#59

2-Hexanone

Concen: 0.271 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN058788.D

Acq: 15 Oct 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

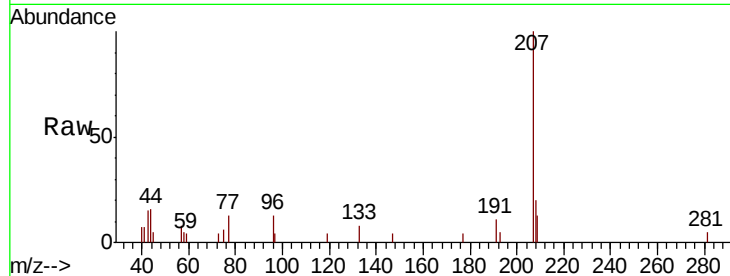
20190897-AMENDED-COMP-KM-CA

Tot Ion: 43 Resp: 1169

Ion Ratio Lower Upper

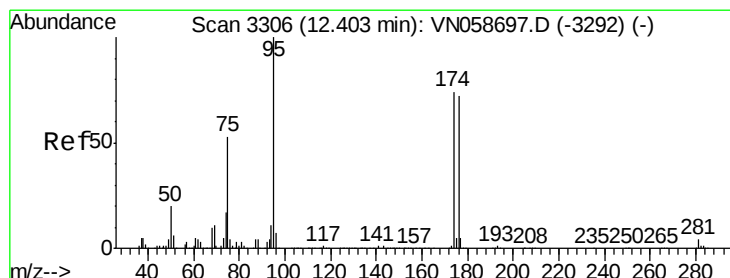
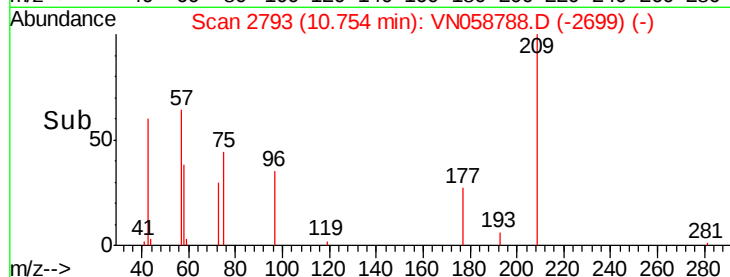
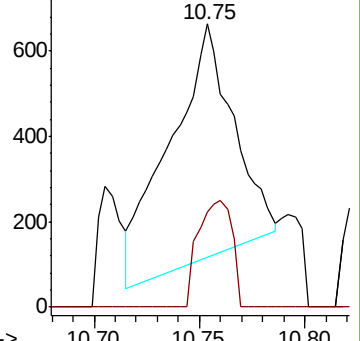
43 100

58 23.9 26.1 78.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 43.207 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058788.D

Acq: 15 Oct 2019 17:22

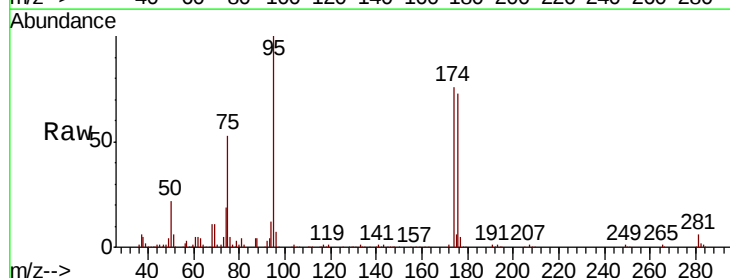
Tgt Ion: 95 Resp: 230889

Ion Ratio Lower Upper

95 100

174 76.8 0.0 150.4

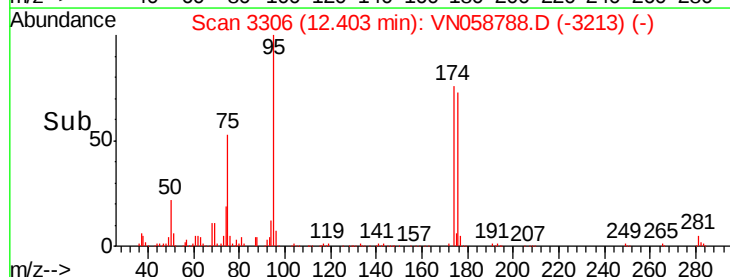
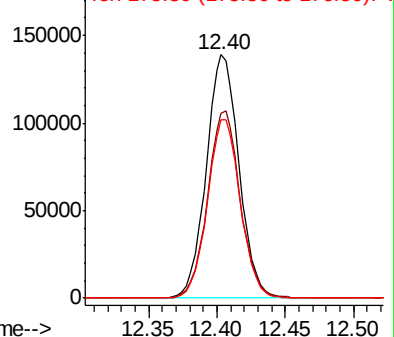
176 73.6 0.0 146.8

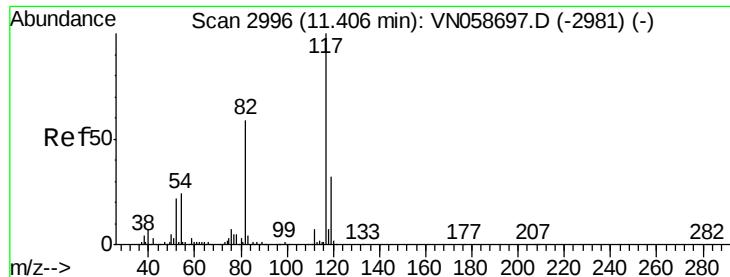


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

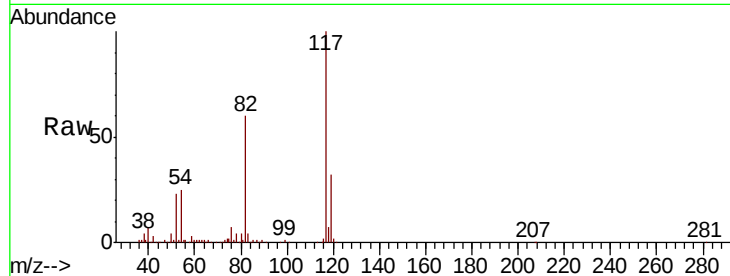




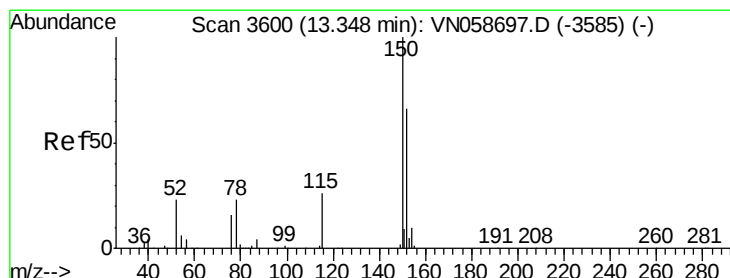
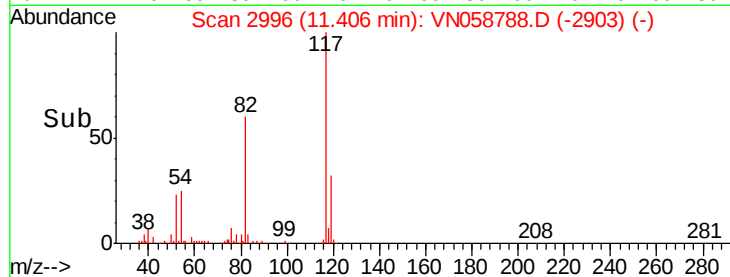
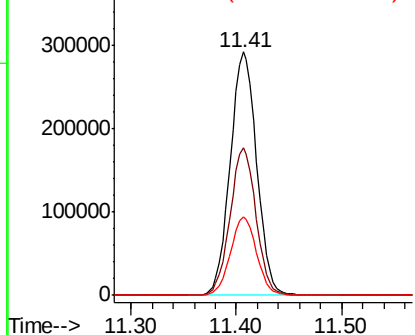
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

Instrument :
MSVOA_N
ClientSampleId :
20190897-AMENDED-COMP-KM-CA

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.4	47.0	70.4
119	32.0	25.4	38.2

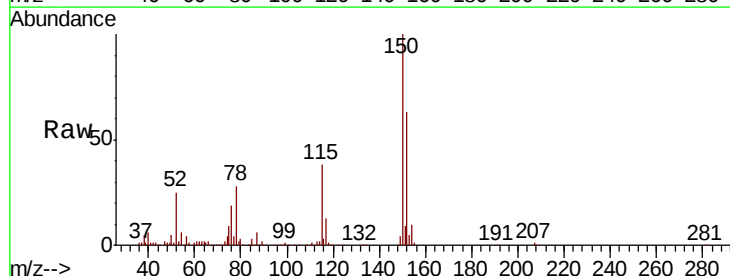


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

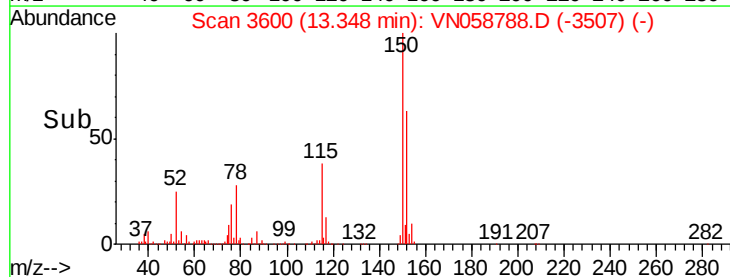
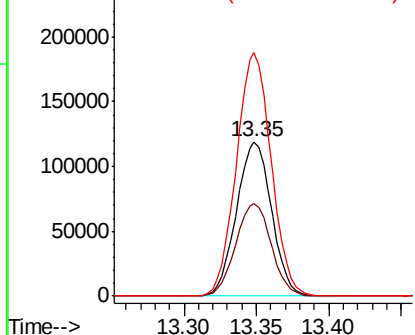


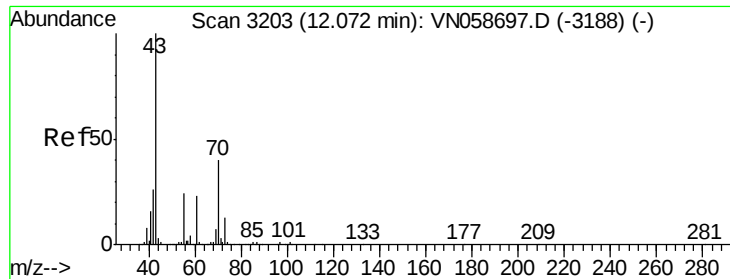
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.00 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.4	91.2
150	156.4	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





#74

N-amvl acetate

Concen: 0.308 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058788.D

Acq: 15 Oct 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

20190897-AMENDED-COMP-KM-CA

Tot Ion: 43 Resp: 2007

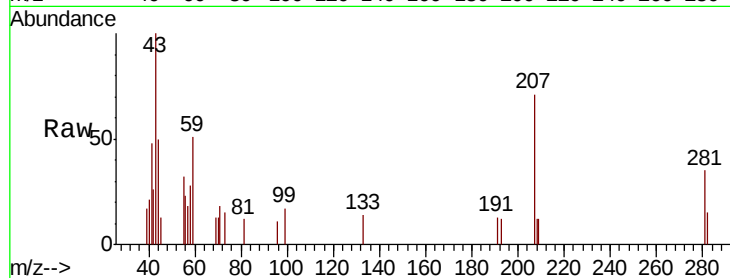
Ion Ratio Lower Upper

43 100

70 9.7 32.2 48.4#

55 45.9 19.6 29.4#

61 0.0 18.6 28.0#

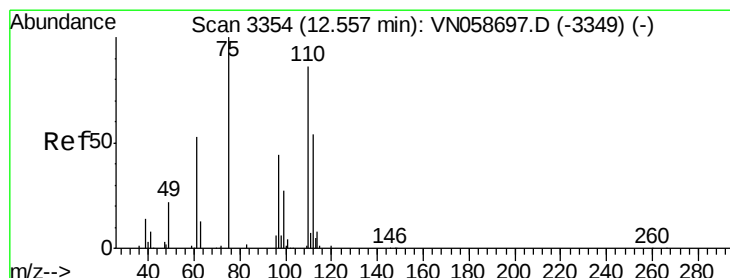
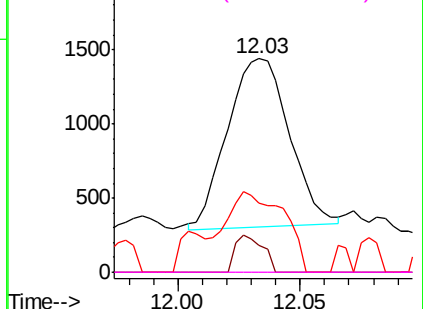
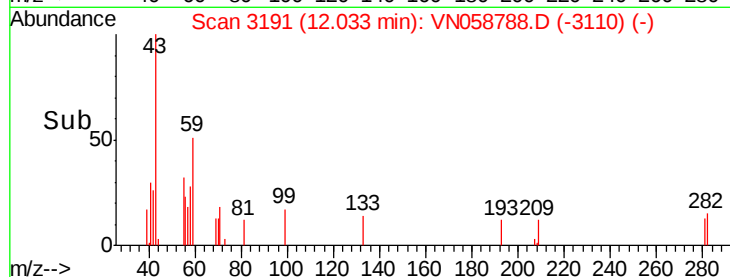


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.215 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058788.D

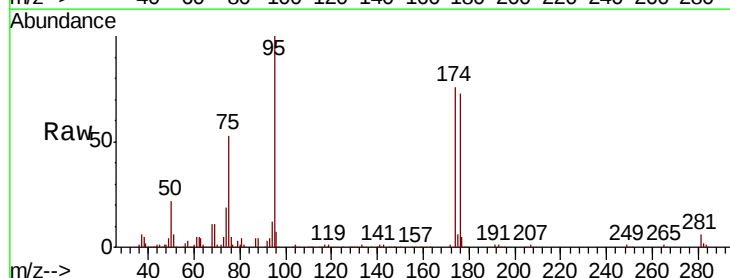
Acq: 15 Oct 2019 17:22

Tgt Ion: 75 Resp: 124138

Ion Ratio Lower Upper

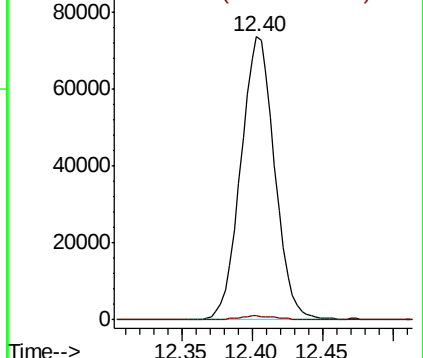
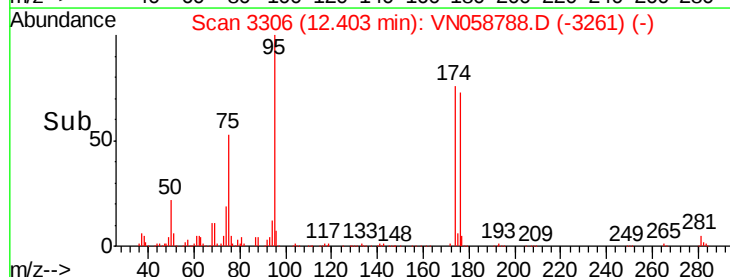
75 100

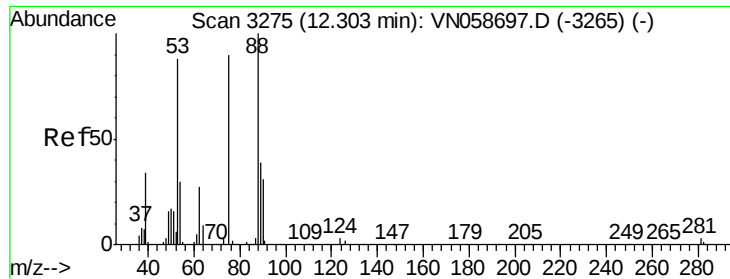
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

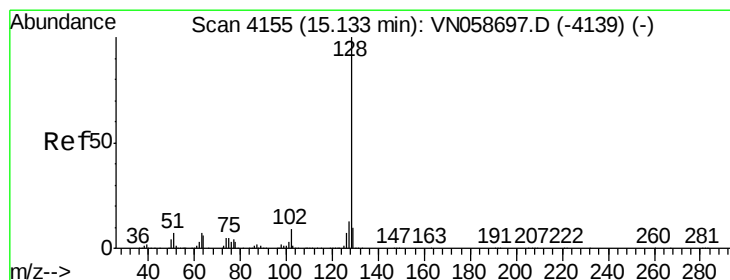
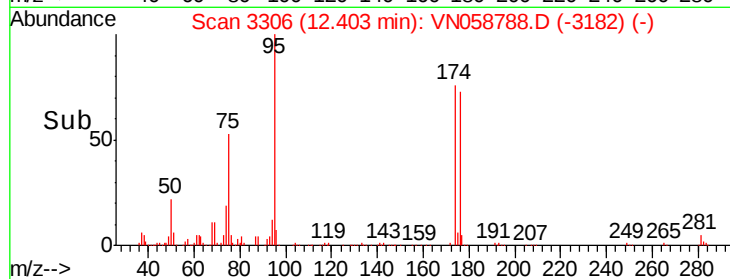
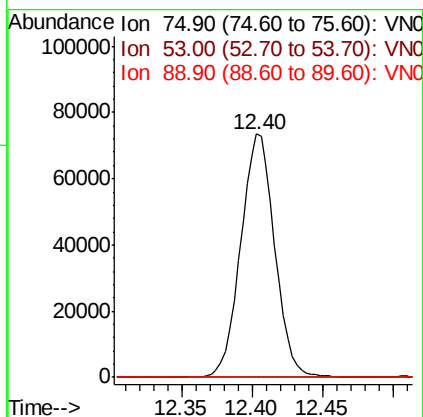
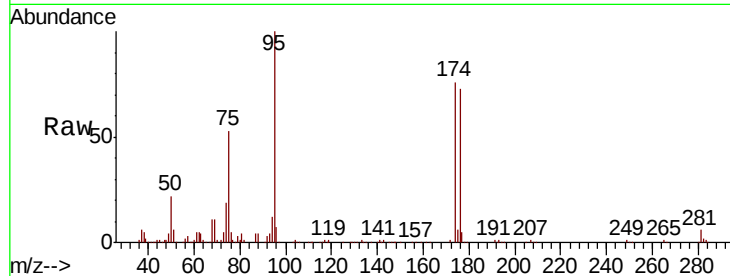




#81
trans-1,4-Dichloro-2-butene
Concen: 75.578 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

Instrument :
MSVOA_N
ClientSampleId :
20190897-AMENDED-COMP-KM-CA

Tot Ion: 75 Resp: 124138
Ion Ratio Lower Upper
75 100
53 0.0 78.4 117.6#
89 0.0 34.9 52.3#



#95
Naphthalene
Concen: 0.418 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN058788.D
Acq: 15 Oct 2019 17:22

Tgt Ion:128 Resp: 4649
Ion Ratio Lower Upper
128 100
127 12.3 10.2 15.4
129 12.0 8.5 12.7

