

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121719\
 Data File : VN059633.D
 Acq On : 17 Dec 2019 18:26
 Operator : JC/SP
 Sample : K6330-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-224

Quant Time: Dec 18 05:49:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 13 23:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	241878	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	394222	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	362988	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142803	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	178535	50.72	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.44%	
35) Dibromofluoromethane	7.57	113	127063	51.51	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.02%	
50) Toluene-d8	10.08	98	499706	51.17	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	12.40	95	169289	47.51	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.02%	

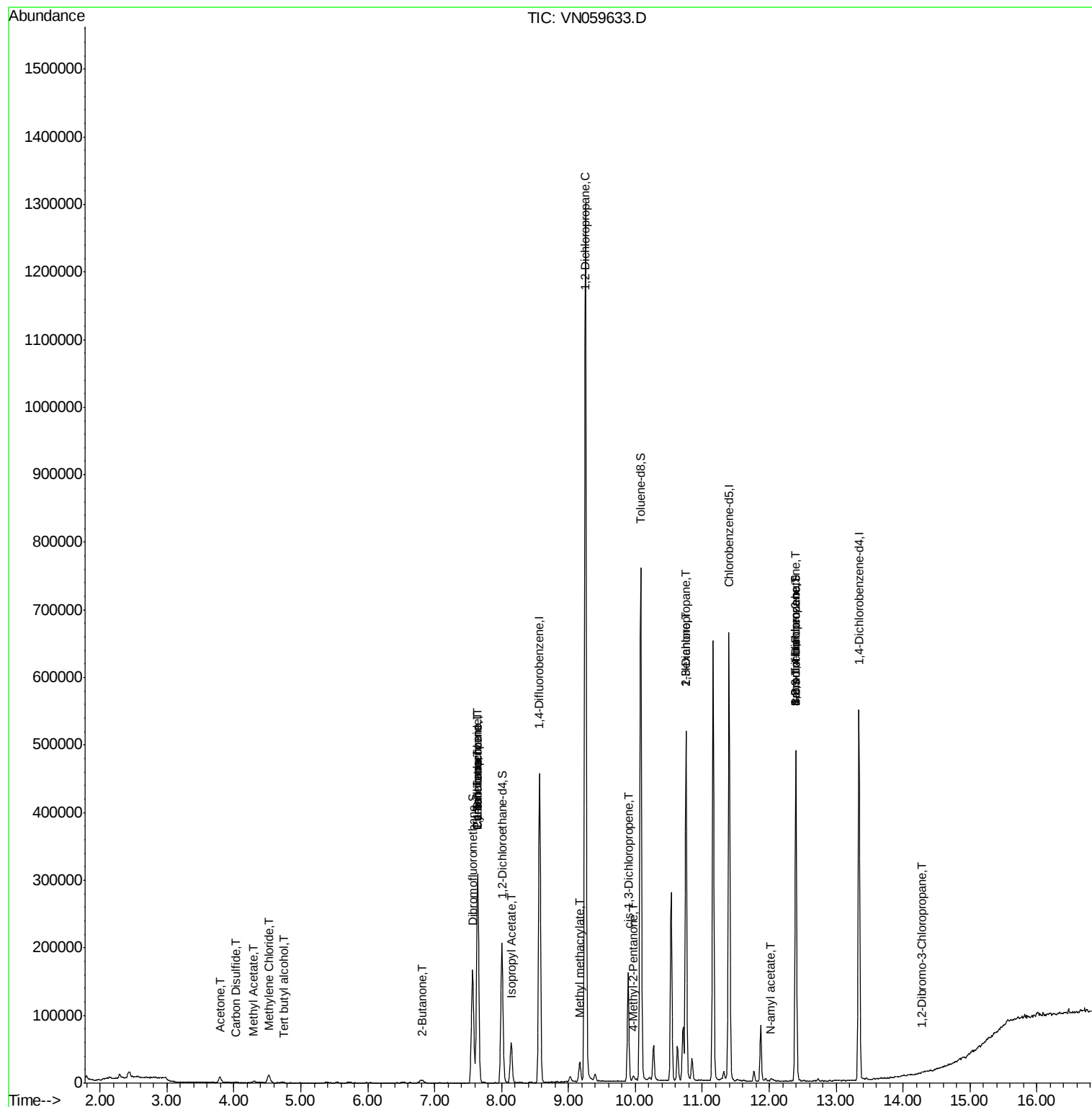
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	249	0.386	ug/l #	72
16) Acetone	3.79	43	14752	7.060	ug/l	96
17) Carbon Disulfide	4.03	76	1736	2.068	ug/l #	75
18) Methyl Acetate	4.30	43	3265	0.746	ug/l #	91
20) Methylene Chloride	4.52	84	8662	2.870	ug/l	96
25) 2-Butanone	6.82	43	4757	1.904	ug/l	94
31) Cyclohexane	7.64	56	5498	1.070	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	20115	4.893	ug/l #	50
38) Carbon Tetrachloride	7.64	117	23882	5.598	ug/l #	17
43) Isopropyl Acetate	8.14	43	69198	9.315	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	1345	0.415	ug/l #	44
48) Methyl methacrylate	9.16	41	5371	1.594	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	6323	1.428	ug/l #	87
54) cis-1,3-Dichloropropene	9.89	75	26562	5.156	ug/l #	65
57) 1,3-Dichloropropane	10.76	76	4875	0.967	ug/l #	42
59) 2-Hexanone	10.76	43	79766	22.850	ug/l #	53
71) Bromoform	12.40	173	1145	0.511	ug/l #	1
74) N-amyl acetate	12.03	43	3661	0.712	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	89539	25.328	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	89539	62.557	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	373	1.985	ug/l #	6

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

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Quant Title : SW846 8260
QLast Update : Fri Dec 13 23:17:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

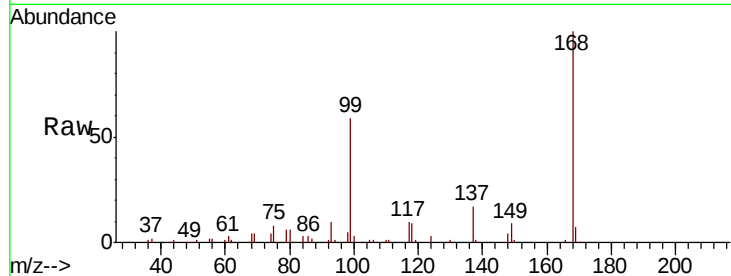
Instrument :
MSVOA_N
ClientSampled :
VNJ-224

Tot Ion:168 Resp: 241878

Ion Ratio Lower Upper

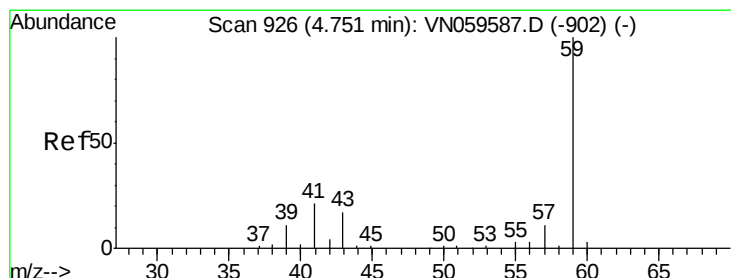
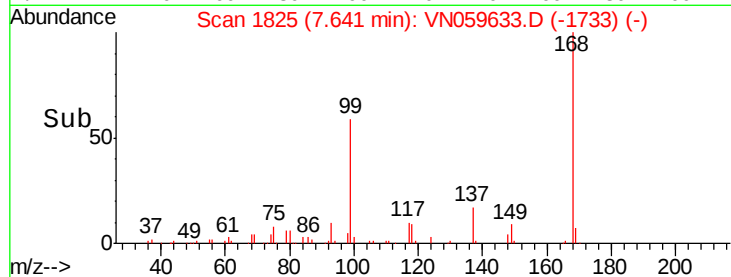
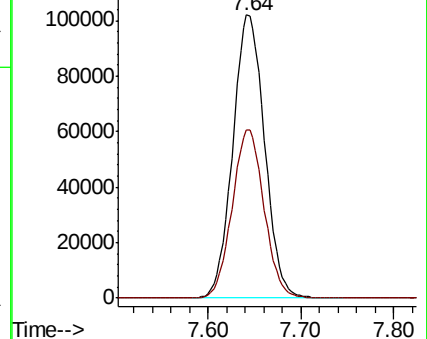
168 100

99 59.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.386 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.00 min

Lab File: VN059633.D

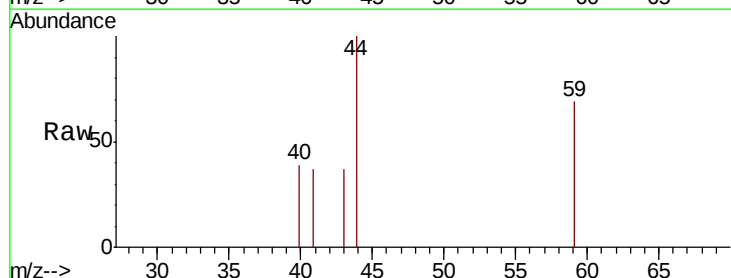
Acq: 17 Dec 2019 18:26

Tgt Ion: 59 Resp: 249

Ion Ratio Lower Upper

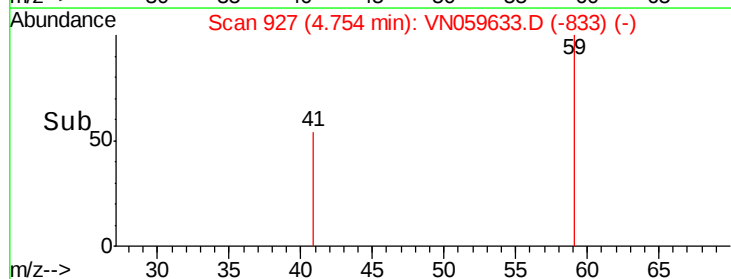
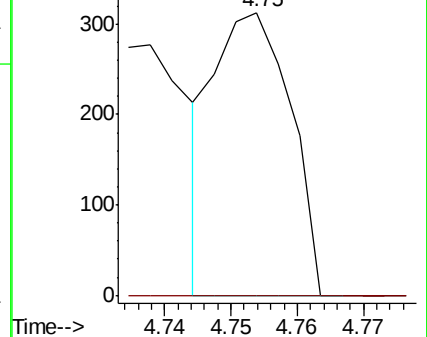
59 100

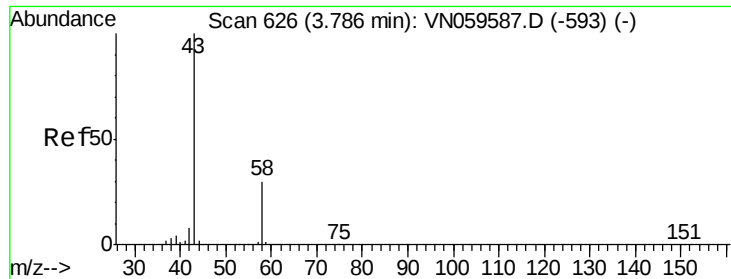
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 7.060 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

Instrument :

MSVOA_N

ClientSampleId :

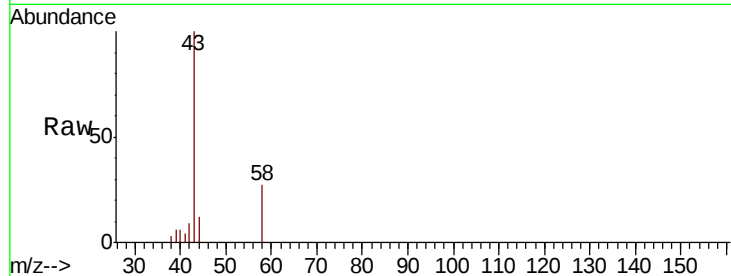
VNJ-224

Tot Ion: 43 Resp: 14752

Ion Ratio Lower Upper

43 100

58 27.2 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059587.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN059587.D (-593) (-)

6000

5000

4000

3000

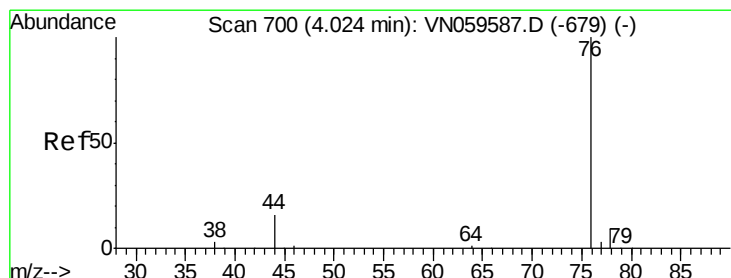
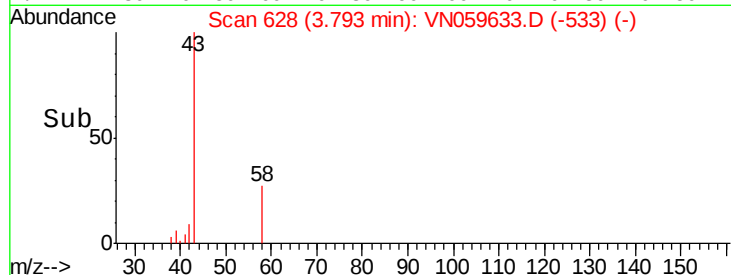
2000

1000

0

3.70 3.80 3.90

Time-->



#17

Carbon Disulfide

Concen: 2.068 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN059633.D

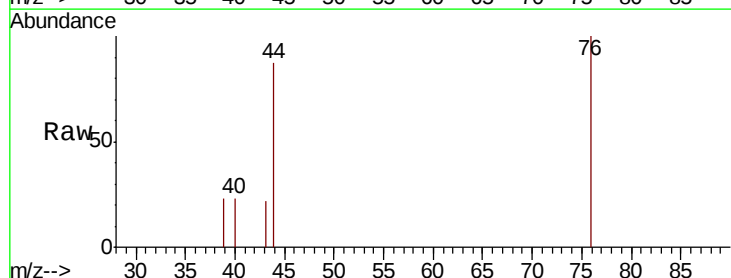
Acq: 17 Dec 2019 18:26

Tgt Ion: 76 Resp: 1736

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN059587.D (-679) (-)

Ion 77.90 (77.60 to 78.60): VN059587.D (-679) (-)

800

600

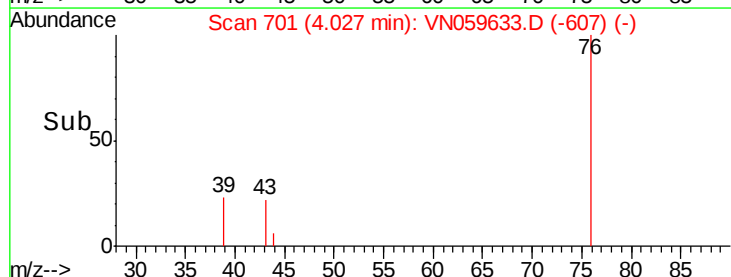
400

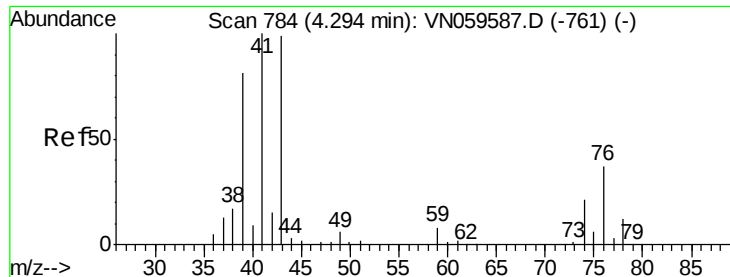
200

0

4.00 4.05

Time-->

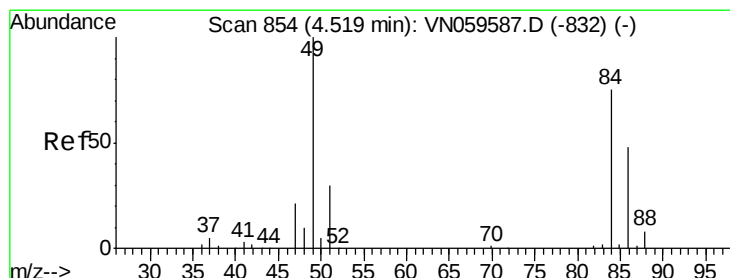
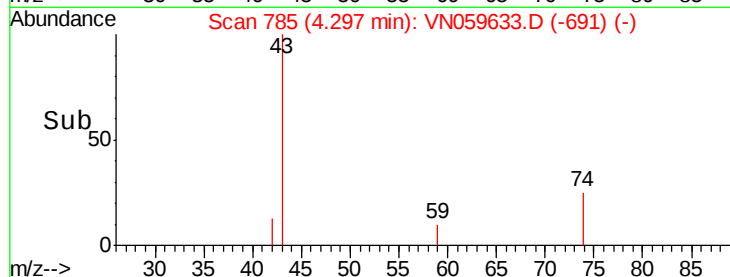
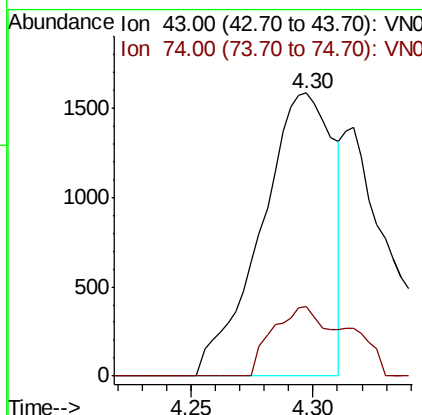
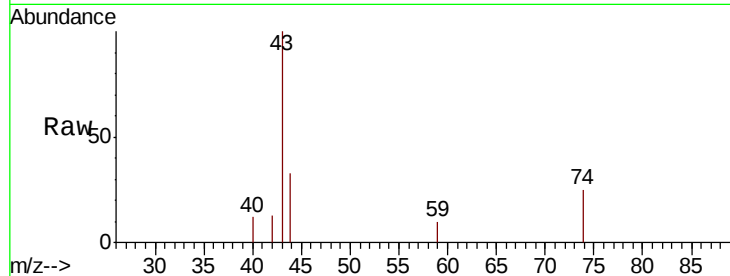




#18
Methyl Acetate
Concen: 0.746 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

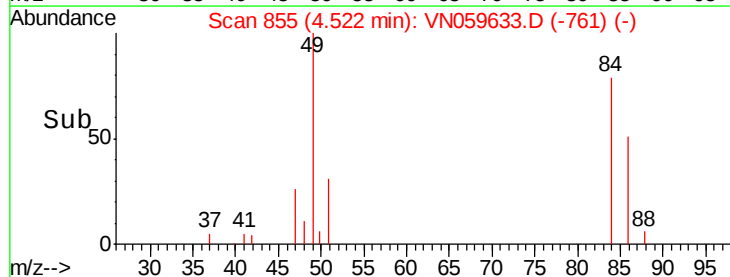
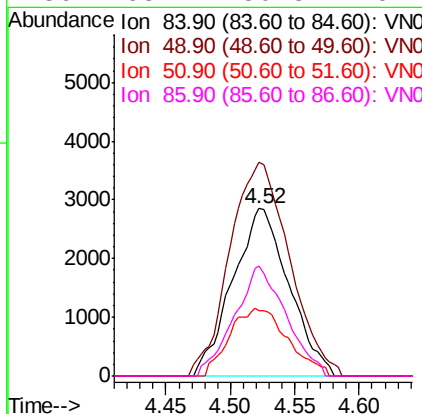
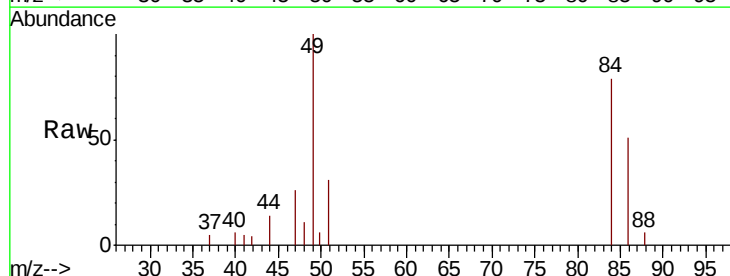
Instrument :
MSVOA_N
ClientSampleId :
VNJ-224

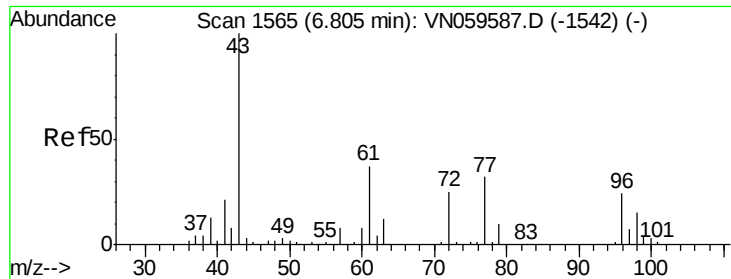
Tot Ion: 43 Resp: 3265
Ion Ratio Lower Upper
43 100
74 17.4 17.5 26.3#



#20
Methylene Chloride
Concen: 2.870 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

Tgt Ion: 84 Resp: 8662
Ion Ratio Lower Upper
84 100
49 127.4 106.6 160.0
51 39.3 31.9 47.9
86 65.4 50.8 76.2

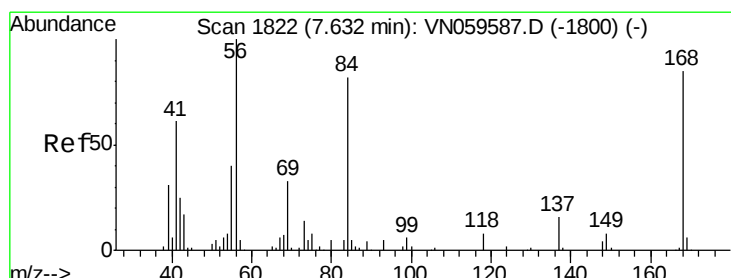
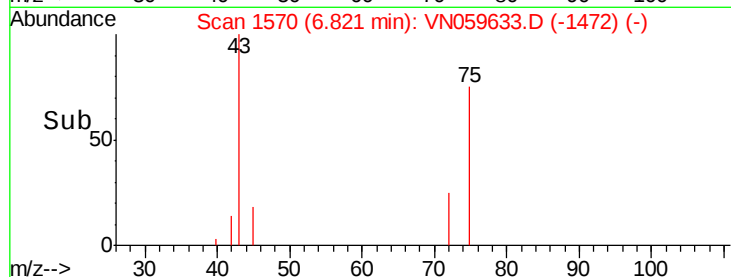
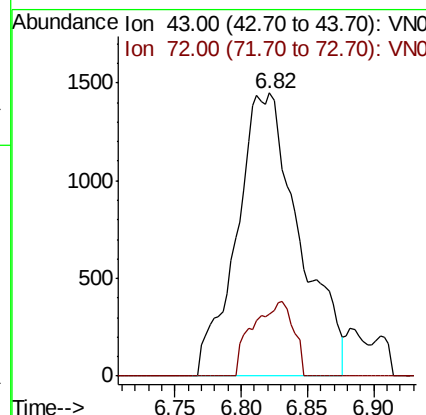
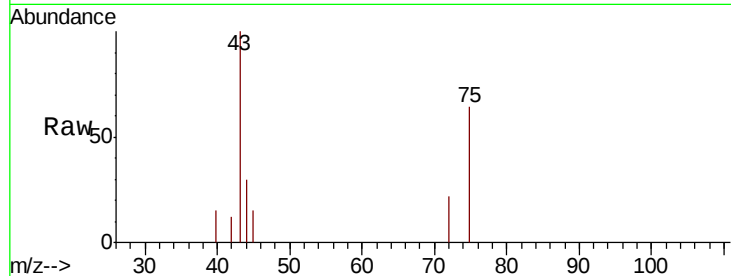




#25
2-Butanone
Concen: 1.904 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

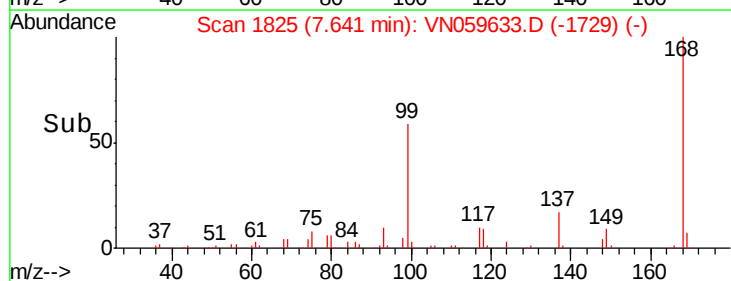
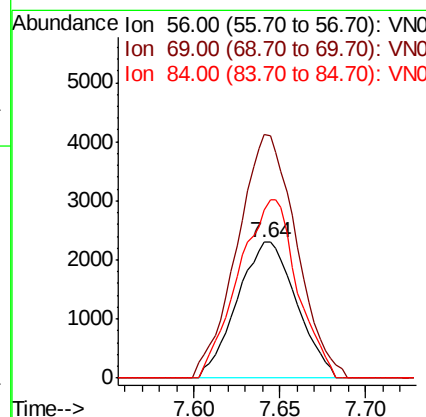
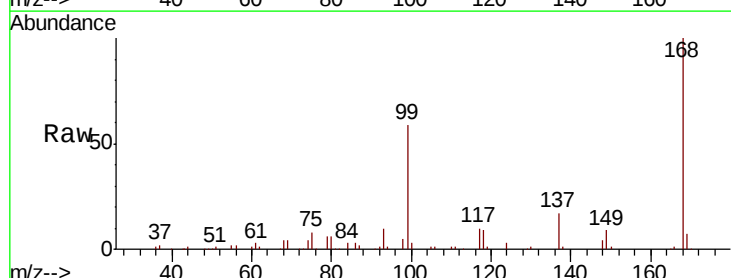
Instrument :
MSVOA_N
ClientSampleId :
VNJ-224

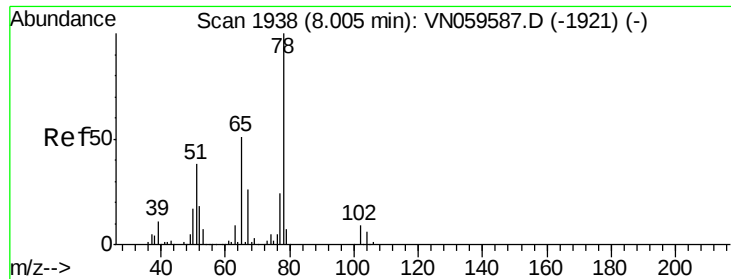
Tot Ion: 43 Resp: 4757
Ion Ratio Lower Upper
43 100
72 21.8 19.9 29.9



#31
Cyclohexane
Concen: 1.070 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

Tgt Ion: 56 Resp: 5498
Ion Ratio Lower Upper
56 100
69 179.2 26.5 39.7#
84 123.3 65.3 97.9#

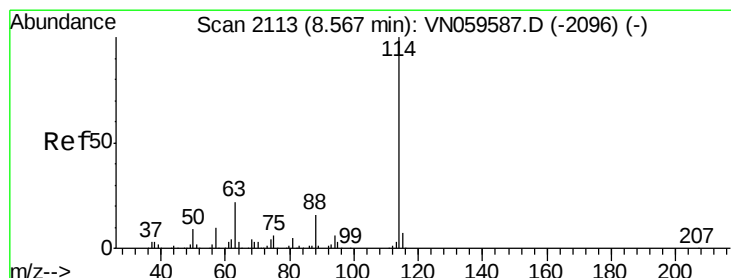
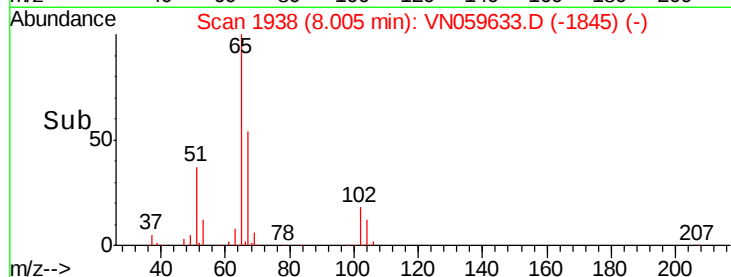
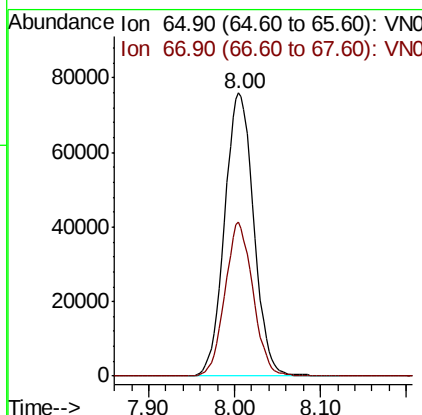
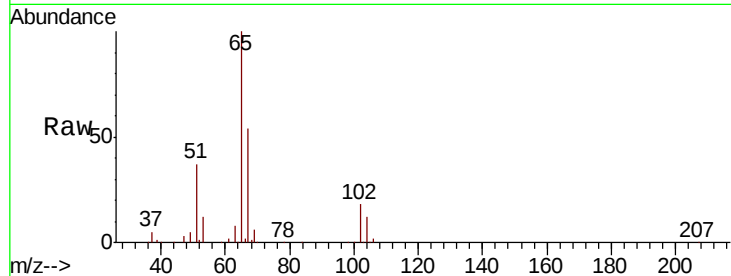




#33
 1,2-Dichloroethane-d4
 Concen: 50.725 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059633.D
 Acq: 17 Dec 2019 18:26

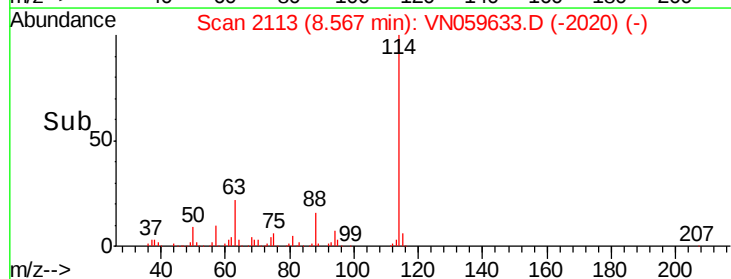
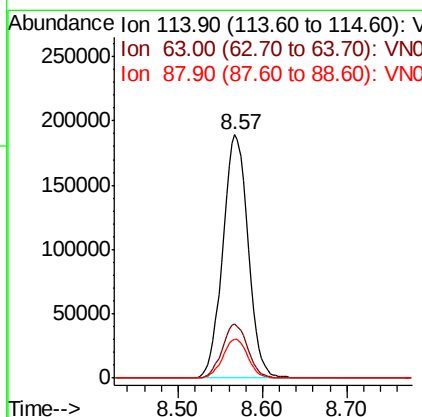
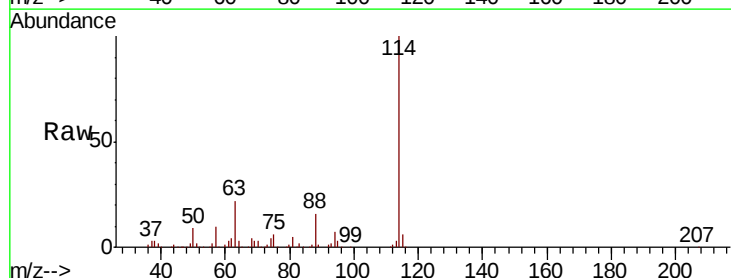
Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-224

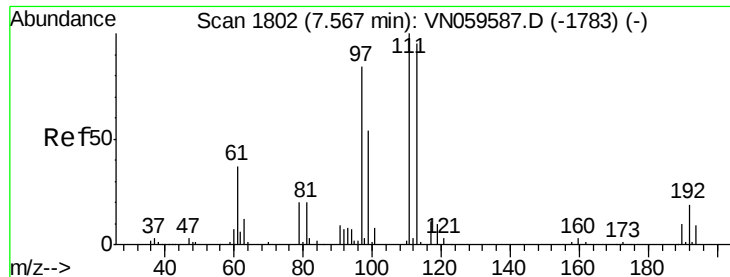
Tot Ion: 65 Resp: 178535
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059633.D
 Acq: 17 Dec 2019 18:26

Tgt Ion: 114 Resp: 394222
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.6
 88 16.0 0.0 31.4

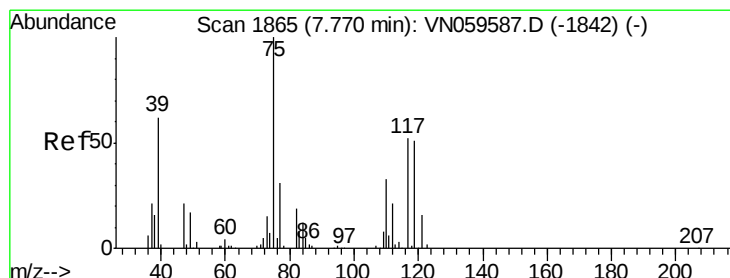
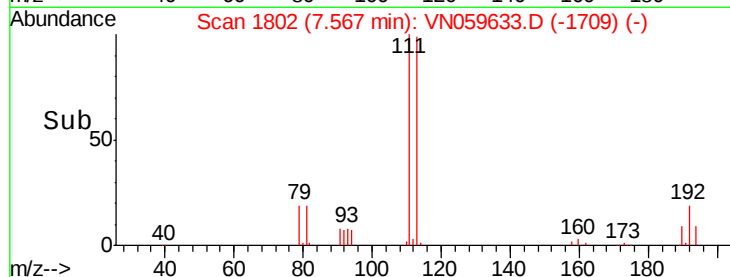
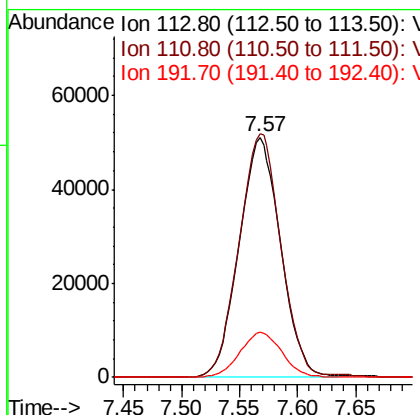
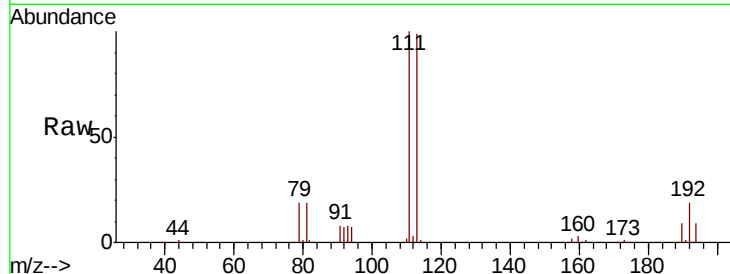




#35
 Dibromofluoromethane
 Concen: 51.513 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059633.D
 Acq: 17 Dec 2019 18:26

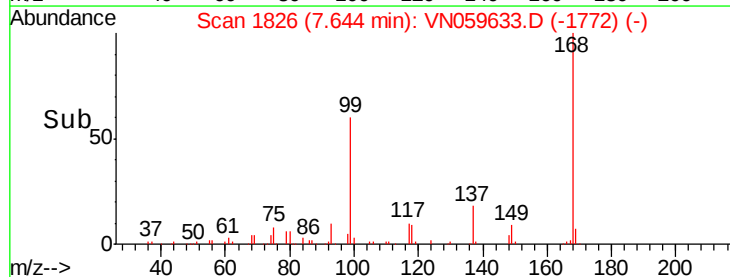
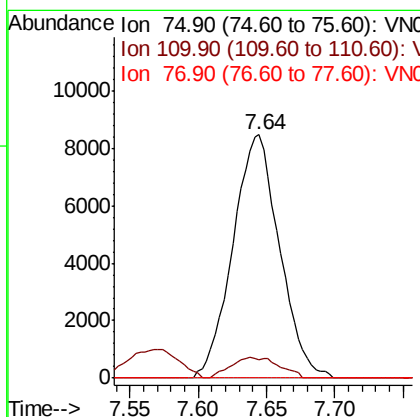
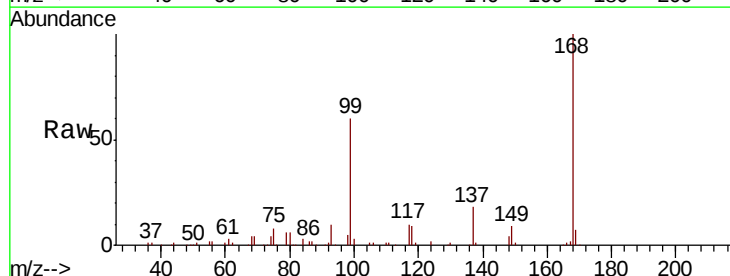
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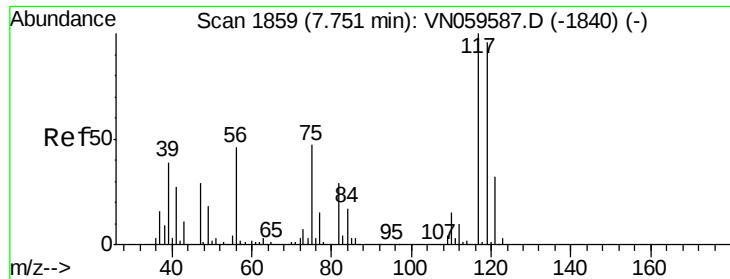
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.5	125.3
192	19.0	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.893 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059633.D
 Acq: 17 Dec 2019 18:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.6	49.7#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 5.598 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

Instrument :

MSVOA_N

ClientSampled :

VNJ-224

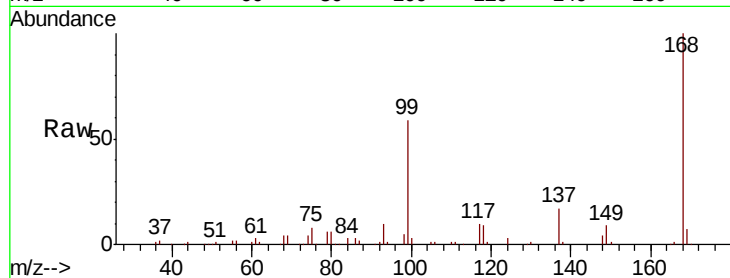
Tot Ion:117 Resp: 23882

Ion Ratio Lower Upper

117 100

119 6.4 76.5 114.7#

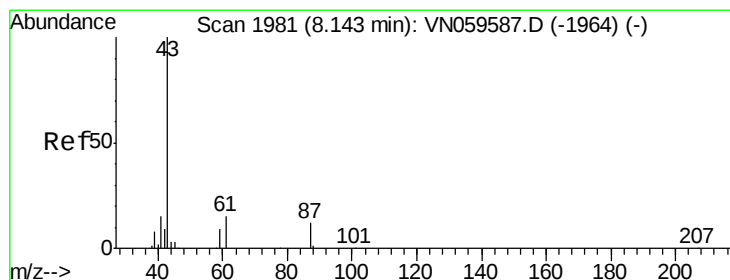
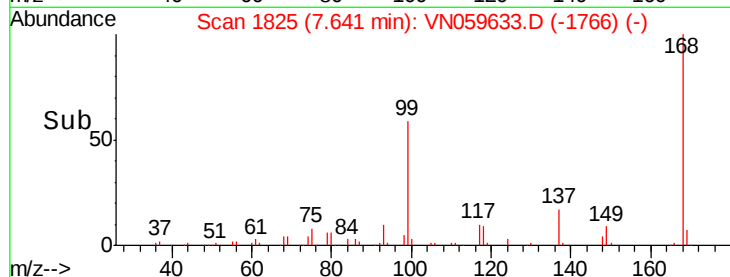
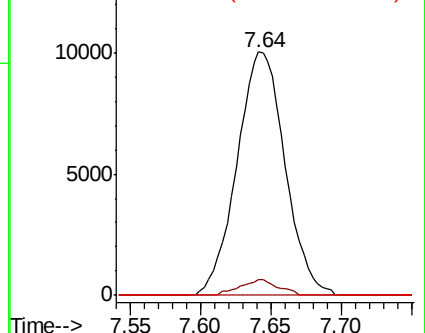
121 0.0 25.1 37.7#



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



#43

Isopropyl Acetate

Concen: 9.315 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

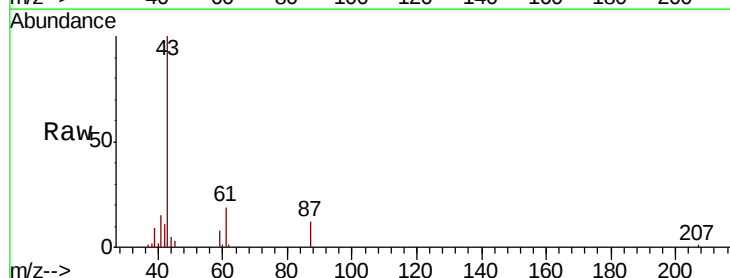
Tgt Ion: 43 Resp: 69198

Ion Ratio Lower Upper

43 100

61 19.1 20.2 30.2#

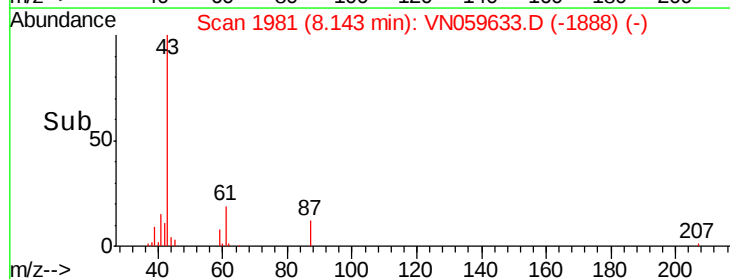
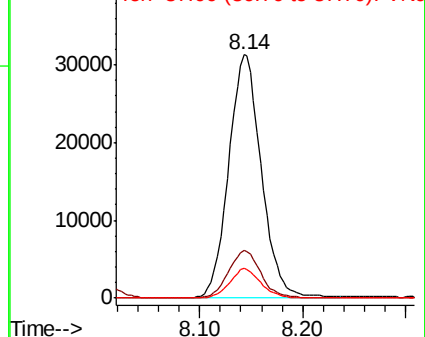
87 11.4 9.5 14.3

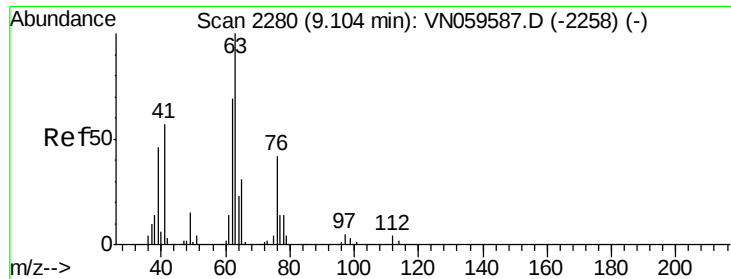


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

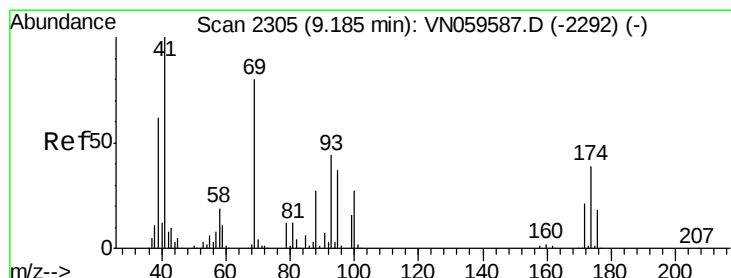
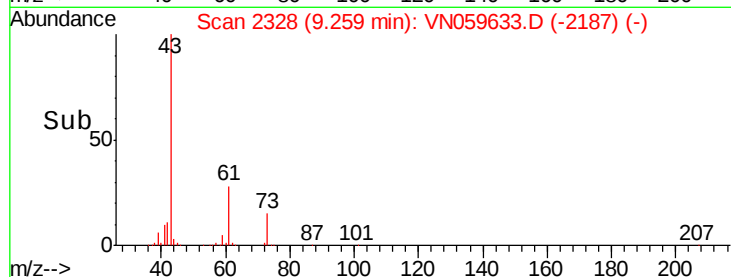
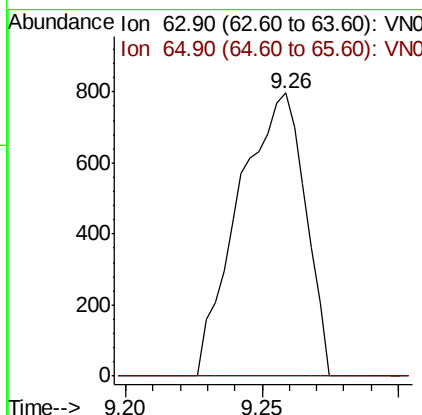
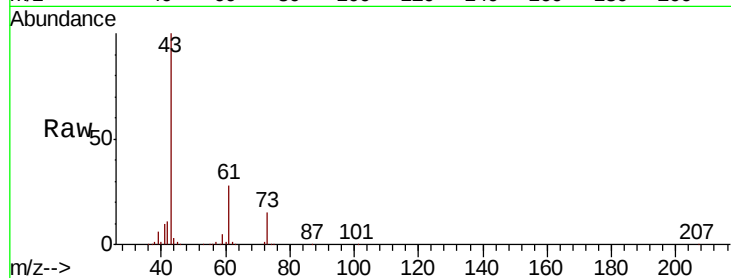




#45
 1,2-Dichloropropane
 Concen: 0.415 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN059633.D
 Acq: 17 Dec 2019 18:26

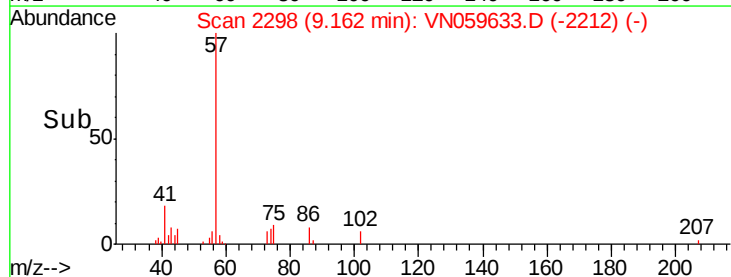
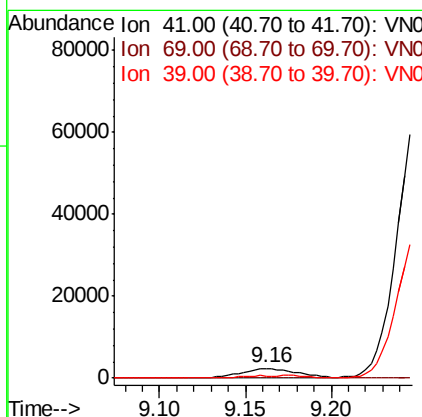
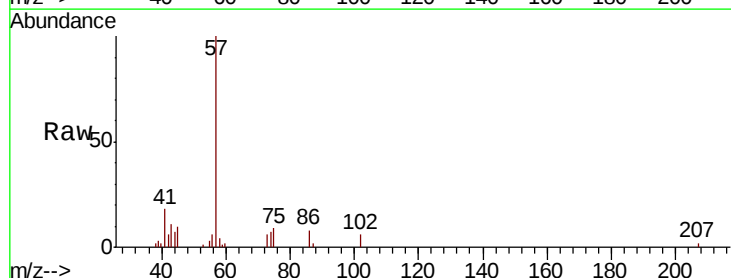
Instrument :
 MSVOA_N
 ClientSampled :
 VNJ-224

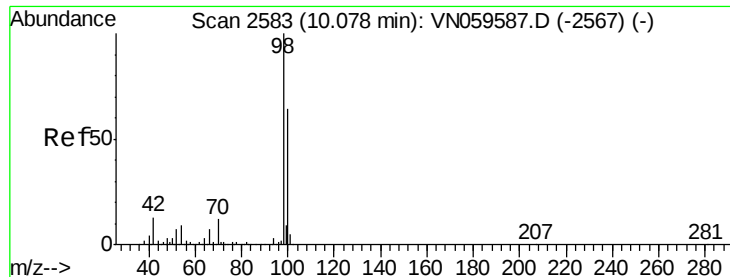
Tot Ion: 63 Resp: 1345
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.594 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN059633.D
 Acq: 17 Dec 2019 18:26

Tgt Ion: 41 Resp: 5371
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#

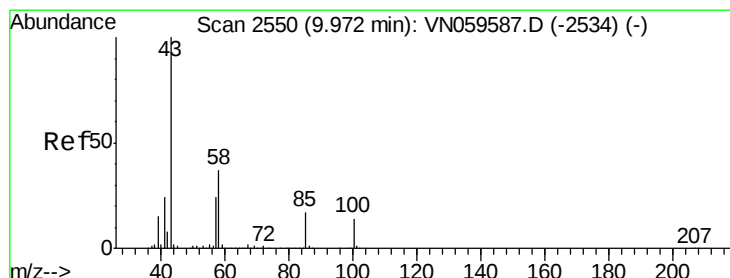
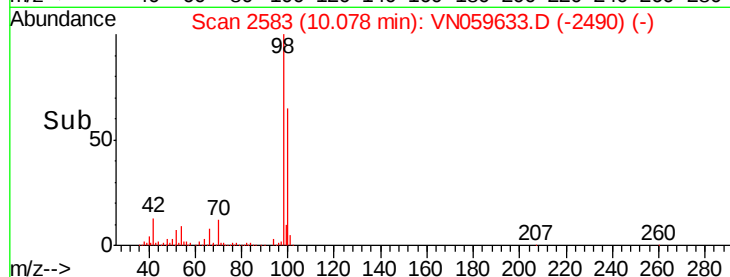
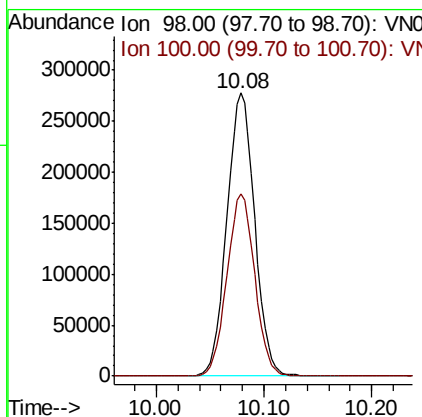
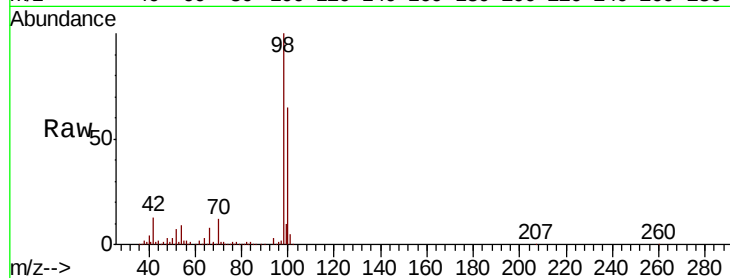




#50
Toluene-d8
Concen: 51.170 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

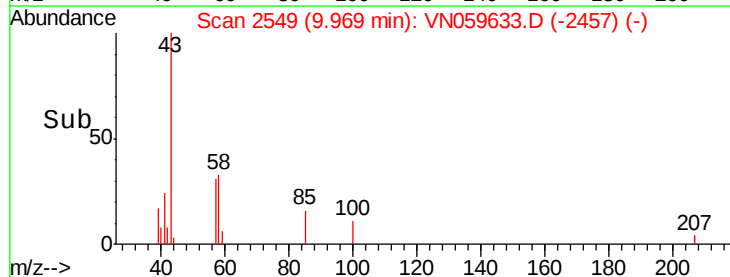
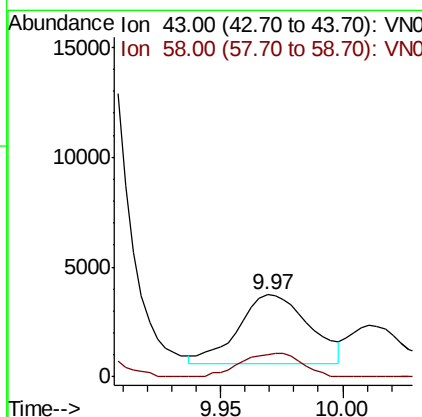
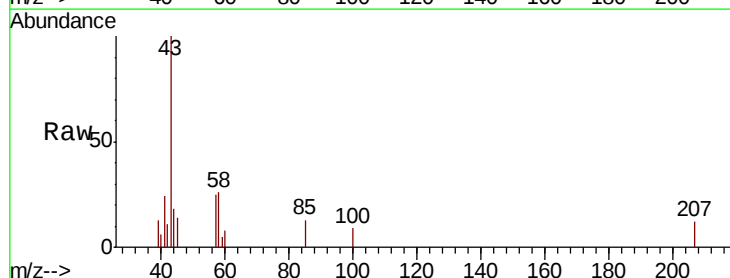
Instrument :
MSVOA_N
ClientSampled :
VNJ-224

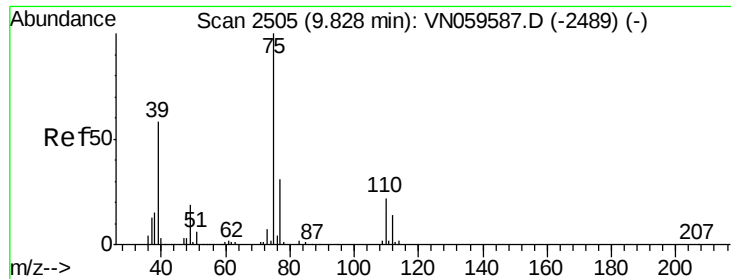
Tot Ion: 98 Resp: 499706
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 1.428 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

Tgt Ion: 43 Resp: 6323
Ion Ratio Lower Upper
43 100
58 29.4 29.8 44.8#





#54

cis-1,3-Dichloropropene

Concen: 5.156 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.06 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

Instrument :

MSVOA_N

ClientSampleId :

VNJ-224

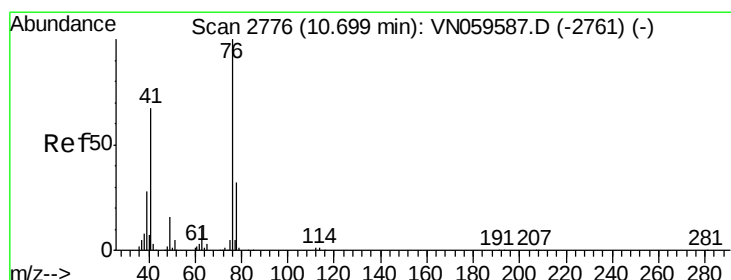
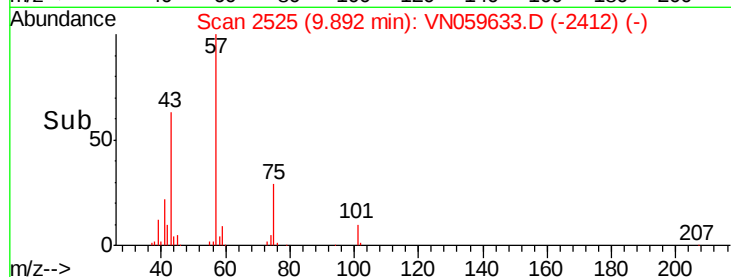
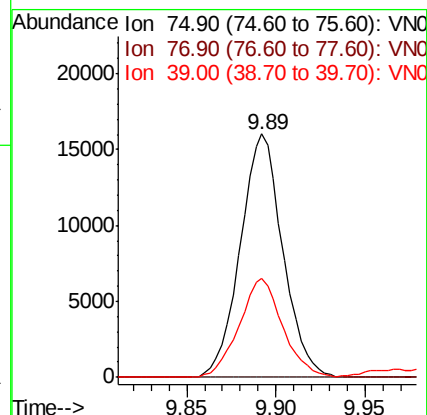
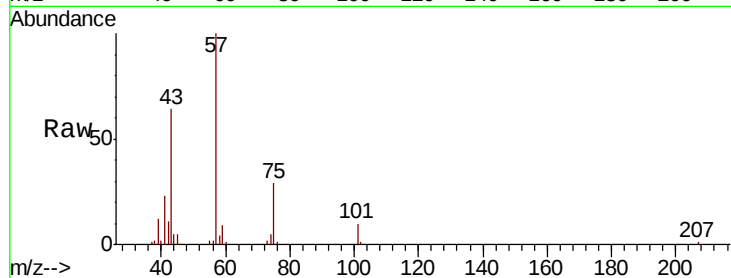
Tot Ion: 75 Resp: 26562

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 40.5 46.1 69.1#



#57

1,3-Dichloropropane

Concen: 0.967 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN059633.D

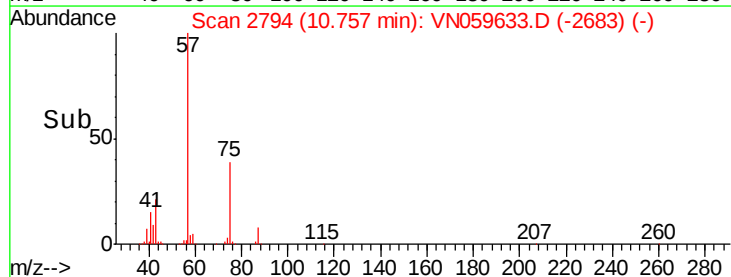
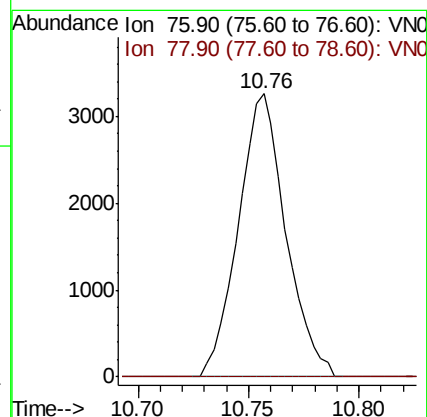
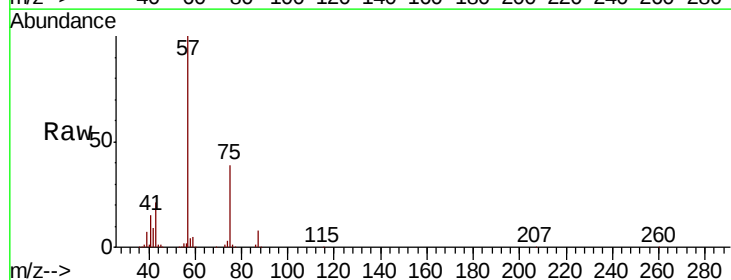
Acq: 17 Dec 2019 18:26

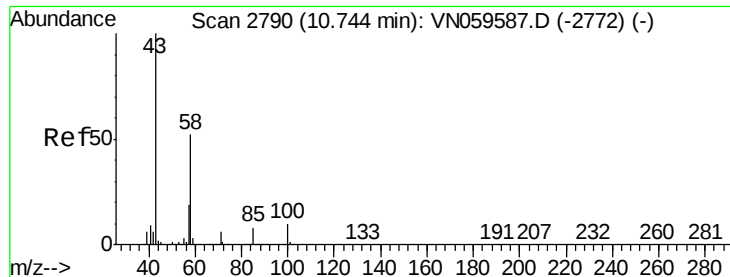
Tgt Ion: 76 Resp: 4875

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

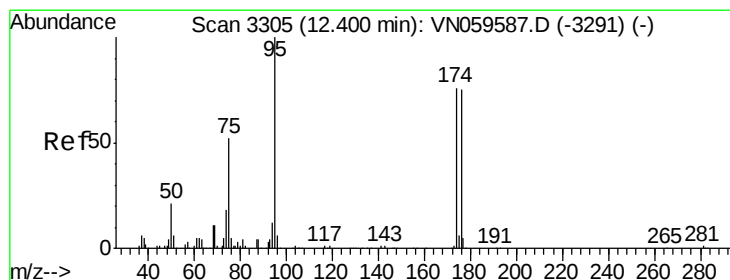
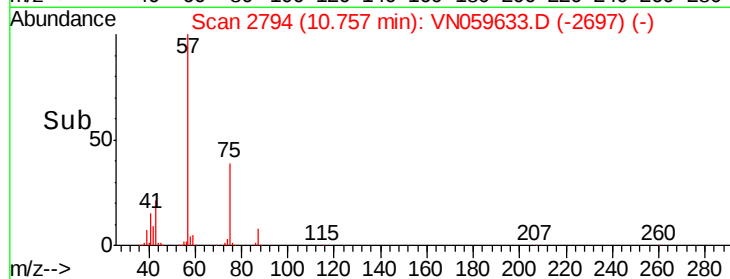
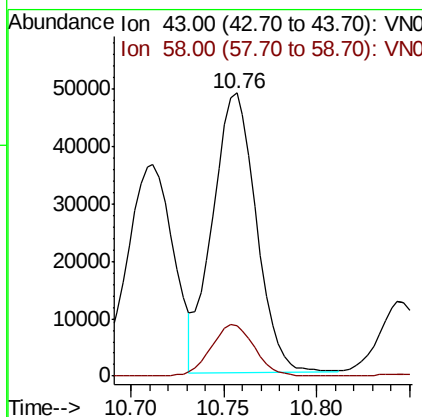
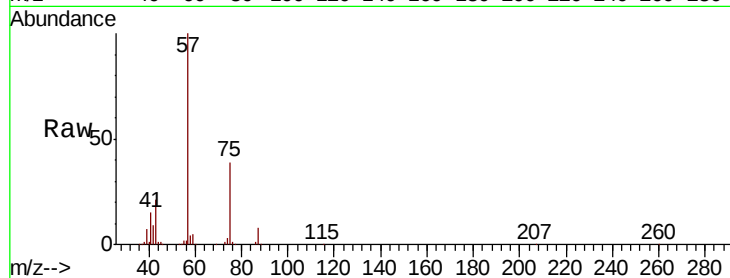




#59
2-Hexanone
Concen: 22.850 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

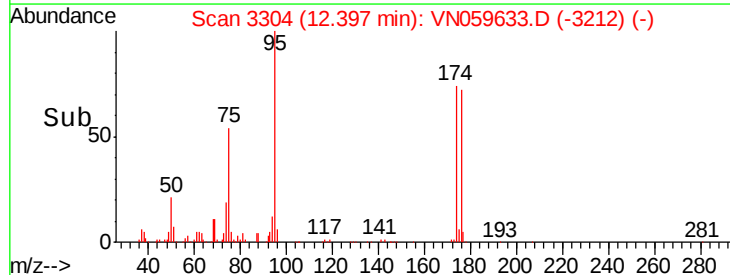
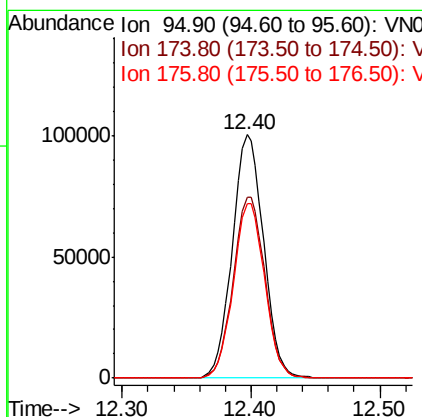
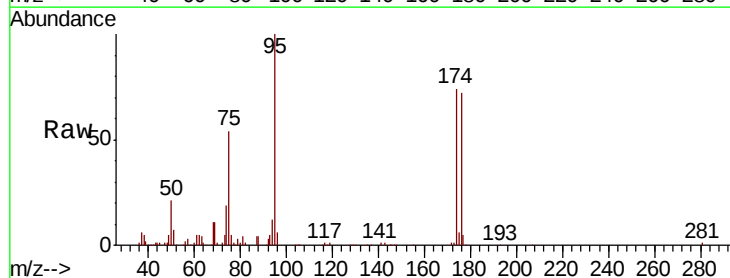
Instrument :
MSVOA_N
ClientSampled :
VNJ-224

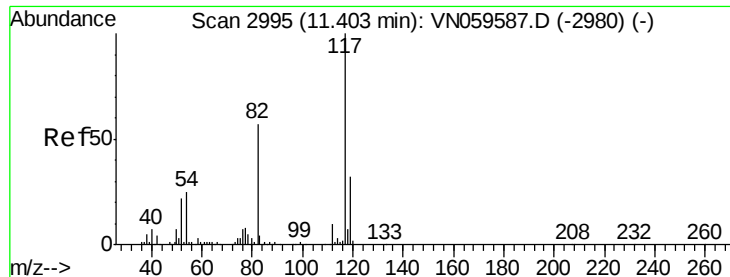
Tot Ion: 43 Resp: 79766
Ion Ratio Lower Upper
43 100
58 18.4 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.508 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

Tgt Ion: 95 Resp: 169289
Ion Ratio Lower Upper
95 100
174 75.2 0.0 151.4
176 71.9 0.0 146.0

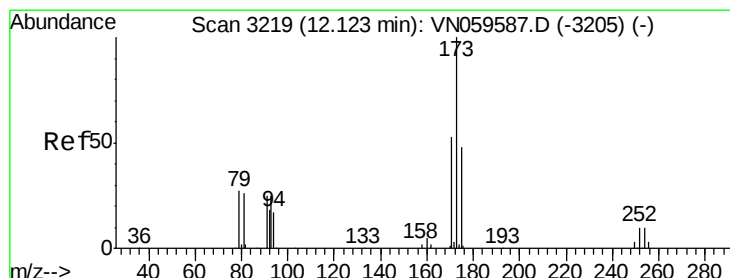
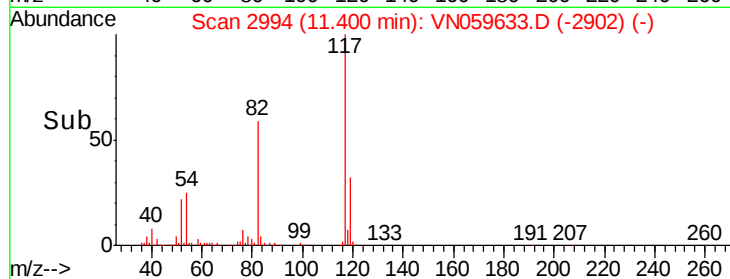
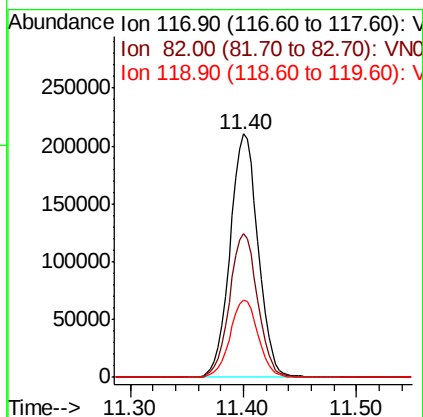
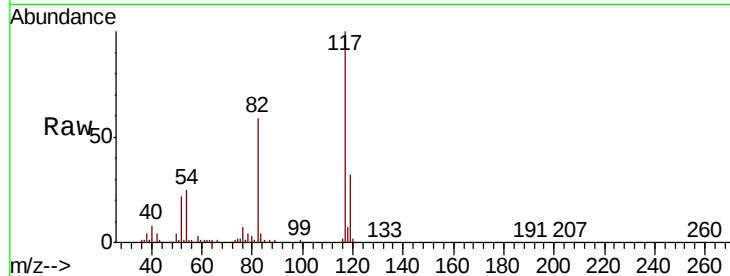




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

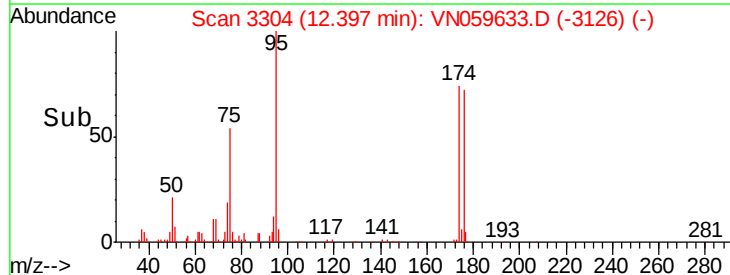
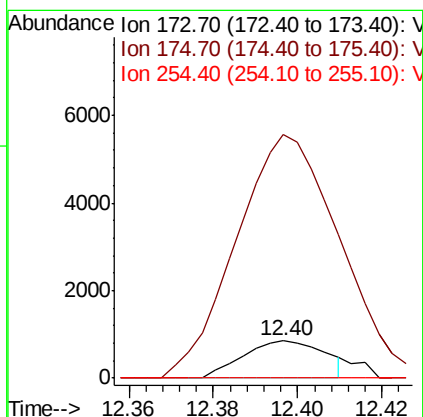
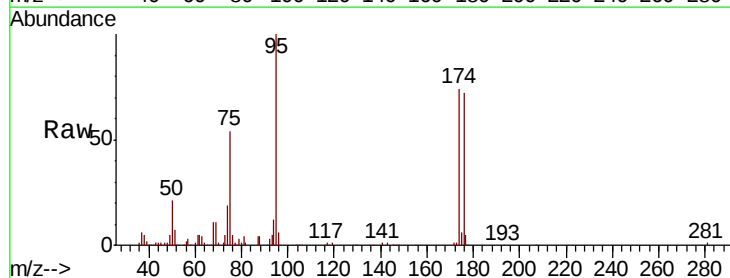
Instrument :
MSVOA_N
ClientSampled :
VNJ-224

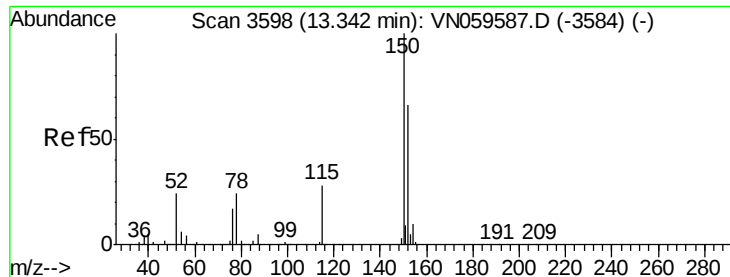
Tot Ion:117 Resp: 362988
Ion Ratio Lower Upper
117 100
82 58.9 45.9 68.9
119 31.6 25.5 38.3



#71
Bromoform
Concen: 0.511 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN059633.D
Acq: 17 Dec 2019 18:26

Tgt Ion:173 Resp: 1145
Ion Ratio Lower Upper
173 100
175 721.0 23.8 71.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

Instrument :

MSVOA_N

ClientSampleId :

VNJ-224

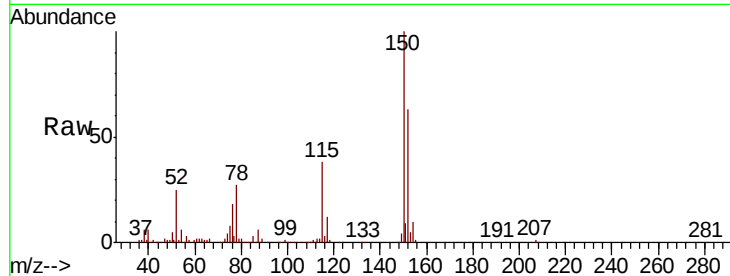
Tot Ion:152 Resp: 142803

Ion Ratio Lower Upper

152 100

115 61.9 30.3 90.9

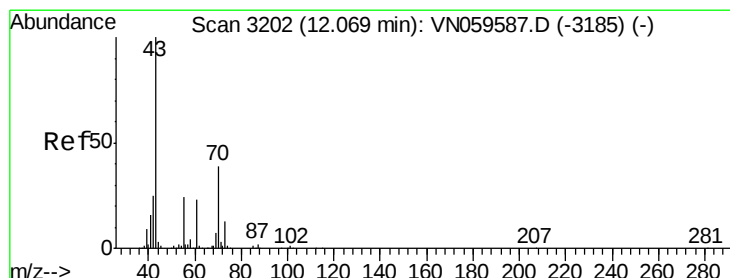
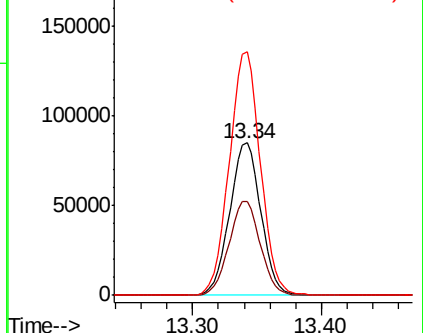
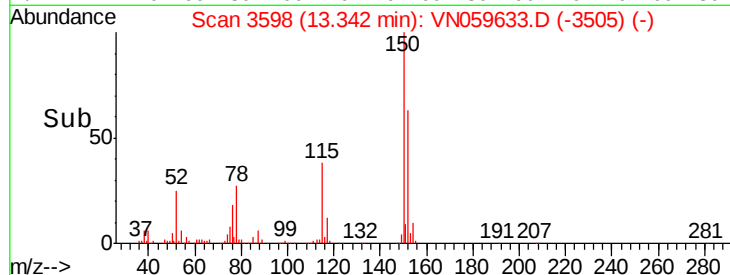
150 159.5 0.0 345.2



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



#74

N-ethyl acetate

Concen: 0.712 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

Tgt Ion: 43 Resp: 3661

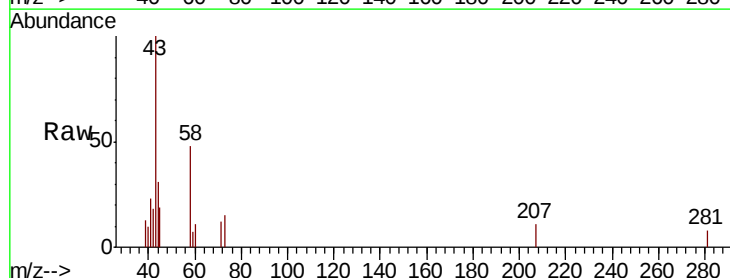
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 1.6 19.8 29.6#

61 0.0 18.3 27.5#

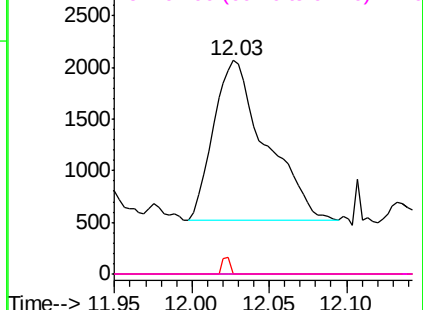
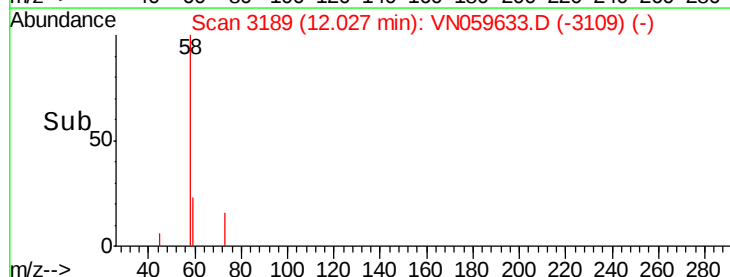


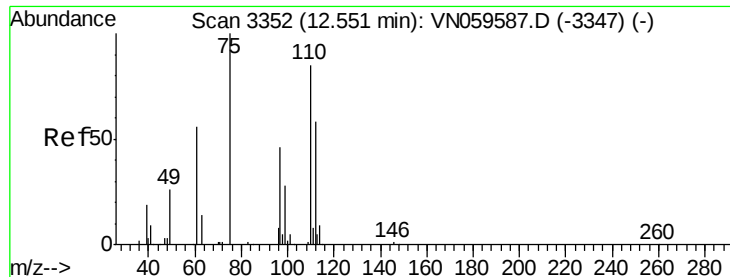
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 25.328 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

Instrument :

MSVOA_N

ClientSampleId :

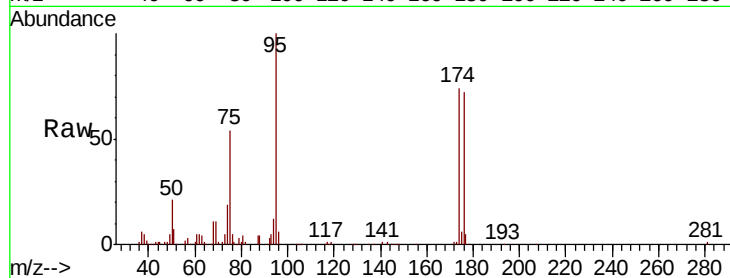
VNJ-224

Tot Ion: 75 Resp: 89539

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

60000

50000

40000

30000

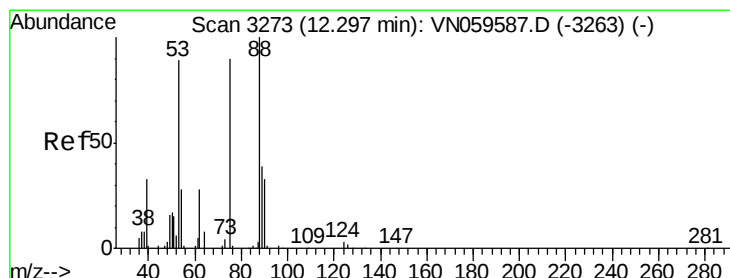
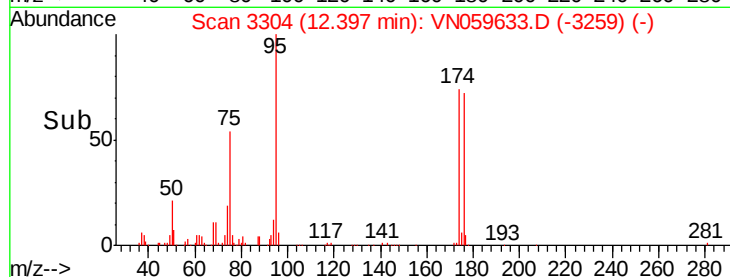
20000

10000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 62.557 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

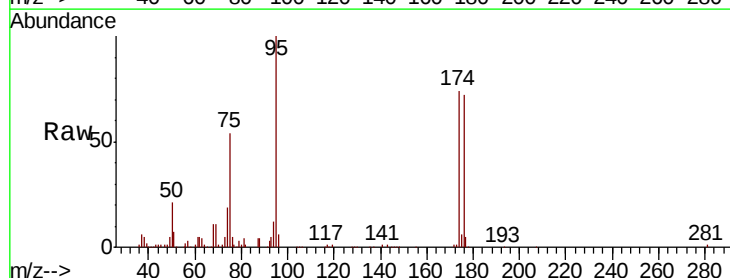
Tgt Ion: 75 Resp: 89539

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#



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

60000

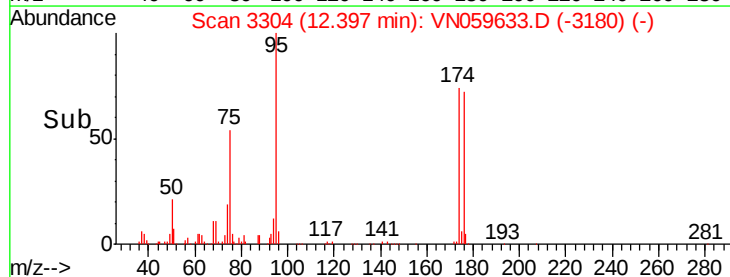
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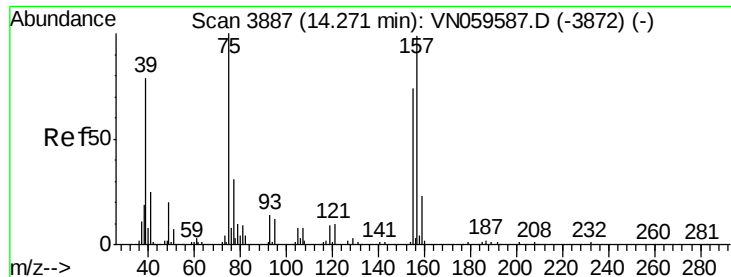
20000

0

12.35 12.40 12.45

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.985 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN059633.D

Acq: 17 Dec 2019 18:26

Instrument :

MSVOA_N

ClientSampleId :

VNJ-224

Tot Ion: 75 Resp: 373

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#

