

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062519\
 Data File : VN056483.D
 Acq On : 25 Jun 2019 13:55
 Operator : JC/SP
 Sample : K3156-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HD-02-062419

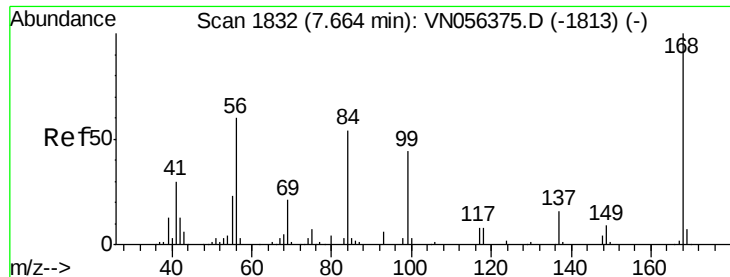
Quant Time: Jun 26 03:41:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	354992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	613959	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	612107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	173246	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	205614	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
35) Dibromofluoromethane	7.59	113	179199	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	
50) Toluene-d8	10.09	98	764918	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
62) 4-Bromofluorobenzene	12.40	95	244708	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	8613	4.369	ug/l	96
18) Methyl Acetate	4.34	43	8673	1.403	ug/l #	88
20) Methylene Chloride	4.55	84	38378	9.609	ug/l	99
25) 2-Butanone	6.85	43	1311	0.503	ug/l #	49
29) Tetrahydrofuran	7.21	42	345	0.216	ug/l #	62
30) Chloroform	7.37	83	3204	0.516	ug/l	91
31) Cyclohexane	7.66	56	5720	0.941	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22953	4.247	ug/l #	49
38) Carbon Tetrachloride	7.66	117	30442	6.442	ug/l #	15
43) Isopropyl Acetate	8.17	43	9979	1.219	ug/l #	91
45) 1,2-Dichloropropane	9.27	63	1891	0.425	ug/l #	43
48) Methyl methacrylate	9.18	41	8526	2.078	ug/l #	12
51) 4-Methyl-2-Pentanone	9.99	43	4172	0.789	ug/l #	61
54) cis-1,3-Dichloropropene	9.90	75	59057	9.942	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	12165	1.773	ug/l #	42
59) 2-Hexanone	10.76	43	167180	43.036	ug/l #	51
71) Bromoform	12.40	173	1708	3.620	ug/l #	1
73) Isopropylbenzene	12.40	105	174	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	112819	31.406	ug/l #	100
79) 2-Chlorotoluene	12.59	91	400	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.74	105	2144	Below Cal		88
81) trans-1,4-Dichloro-2-buten	12.40	75	112819	111.621	ug/l #	8
83) tert-Butylbenzene	13.04	119	113	Below Cal	#	28
95) Naphthalene	15.13	128	1561	5.421	ug/l #	75

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

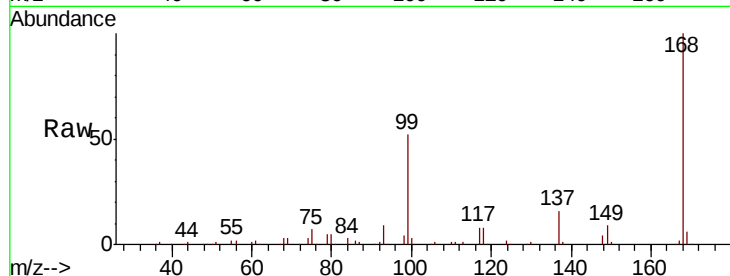
HD-02-062419

Tot Ion:168 Resp: 354992

Ion Ratio Lower Upper

168 100

99 51.8 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

150000

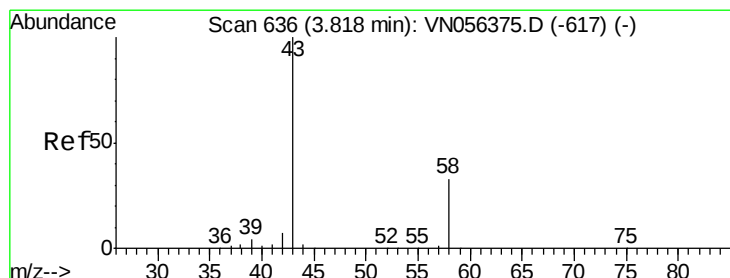
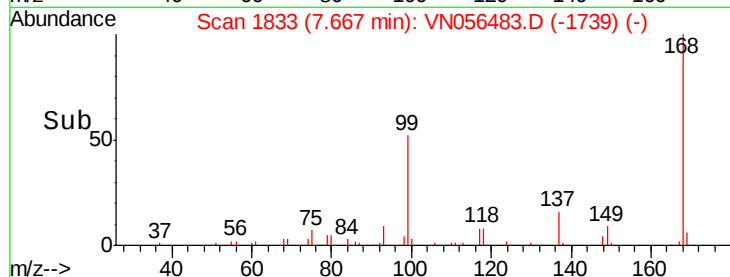
100000

50000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 4.369 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056483.D

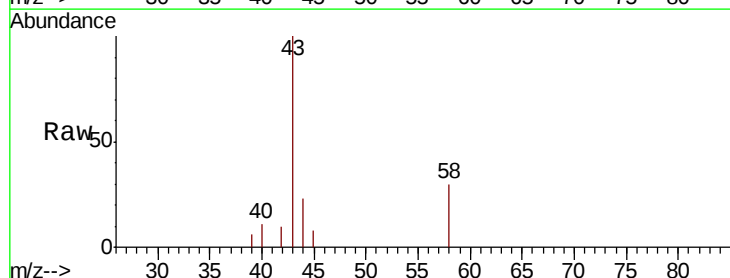
Acq: 25 Jun 2019 13:55

Tgt Ion: 43 Resp: 8613

Ion Ratio Lower Upper

43 100

58 30.5 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

3000

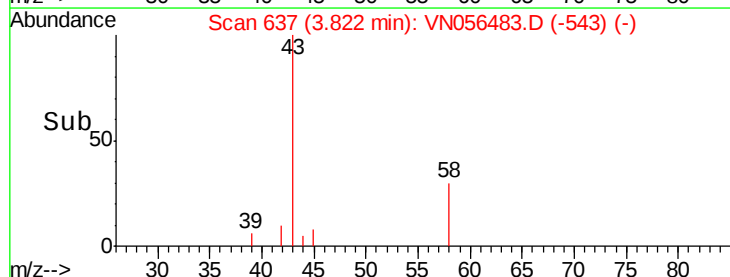
2000

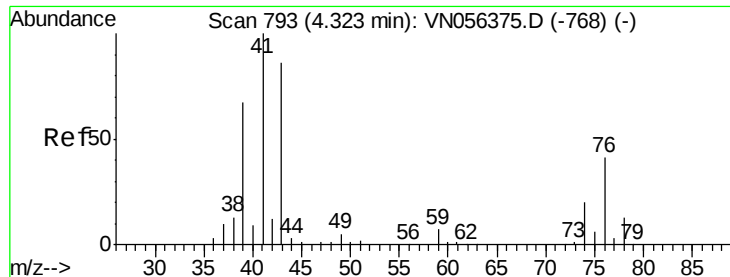
1000

0

3.75 3.80 3.85 3.90

Time-->





#18

Methyl Acetate

Concen: 1.403 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

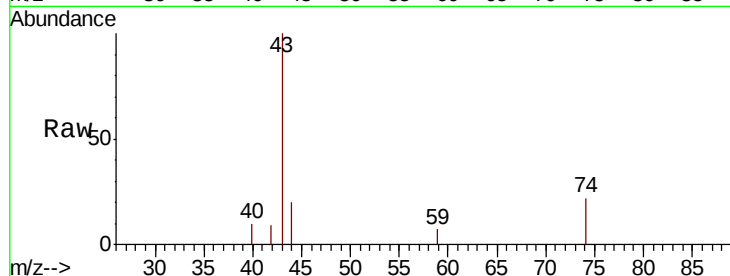
HD-02-062419

Tot Ion: 43 Resp: 8673

Ion Ratio Lower Upper

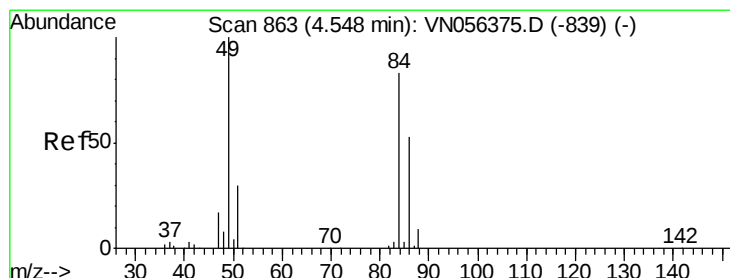
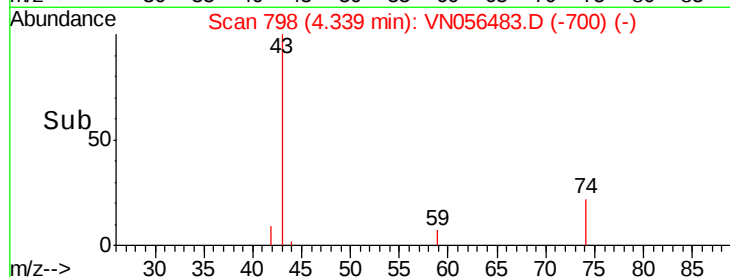
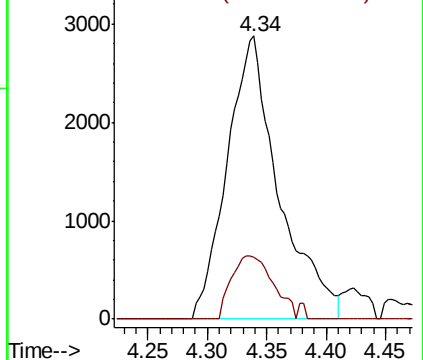
43 100

74 18.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#20

Methylene Chloride

Concen: 9.609 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

Tgt Ion: 84 Resp: 38378

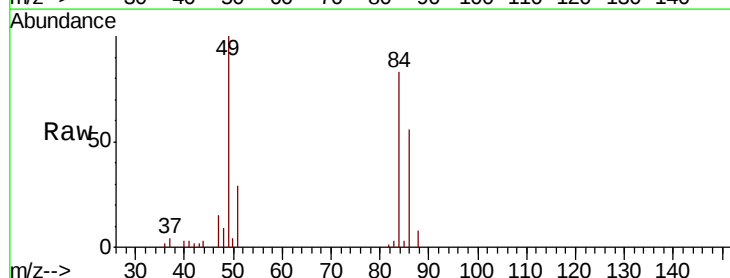
Ion Ratio Lower Upper

84 100

49 120.6 96.4 144.6

51 35.2 28.6 43.0

86 67.7 51.4 77.2

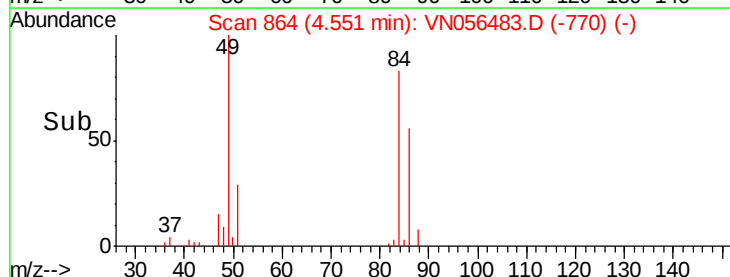
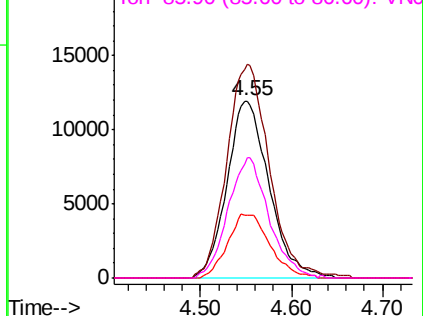


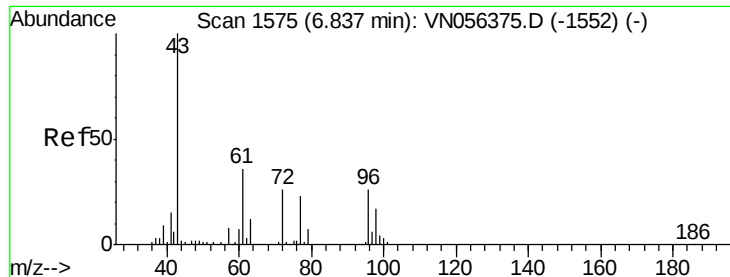
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





#25

2-Butanone

Concen: 0.503 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

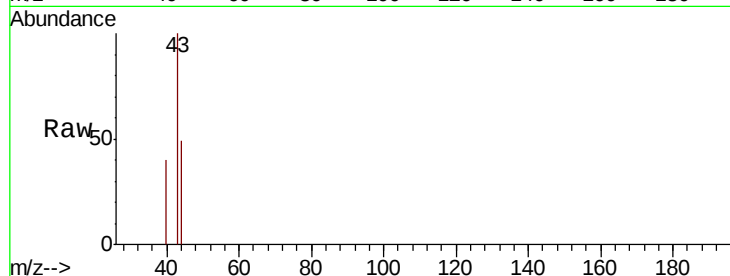
HD-02-062419

Tot Ion: 43 Resp: 1311

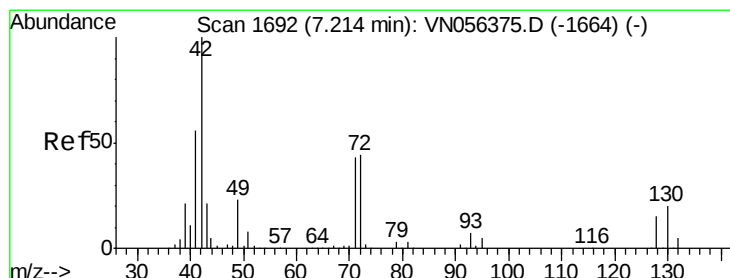
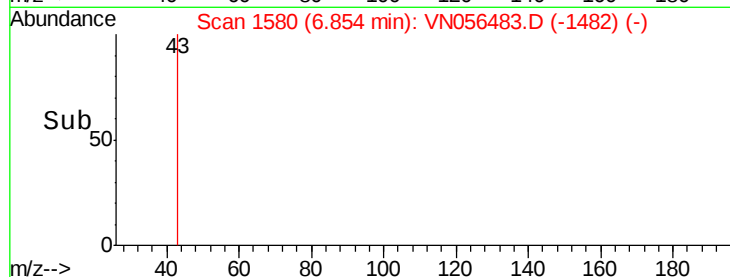
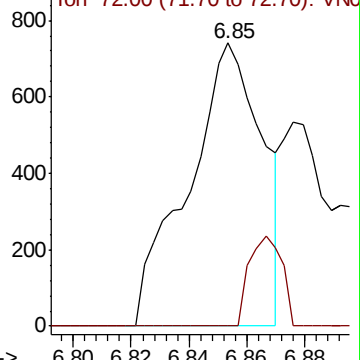
Ion Ratio Lower Upper

43 100

72 0.0 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0



#29

Tetrahydrofuran

Concen: 0.216 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

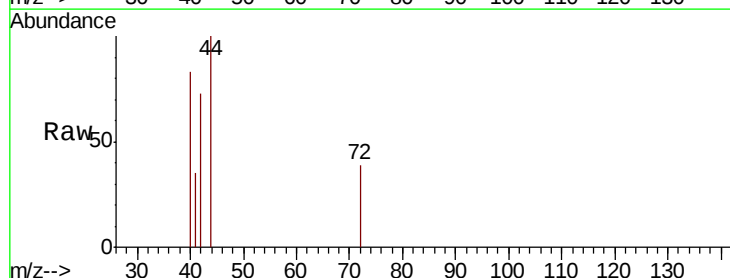
Tgt Ion: 42 Resp: 345

Ion Ratio Lower Upper

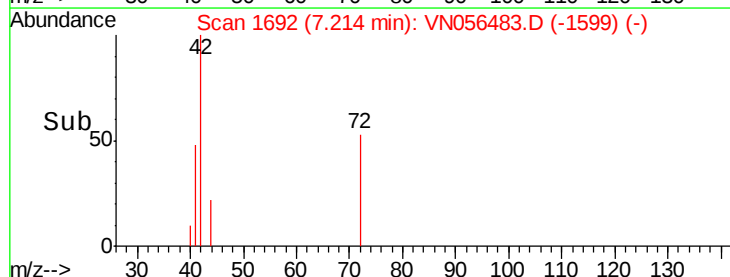
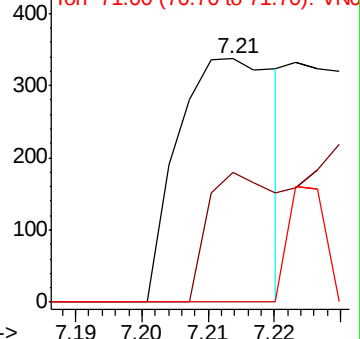
42 100

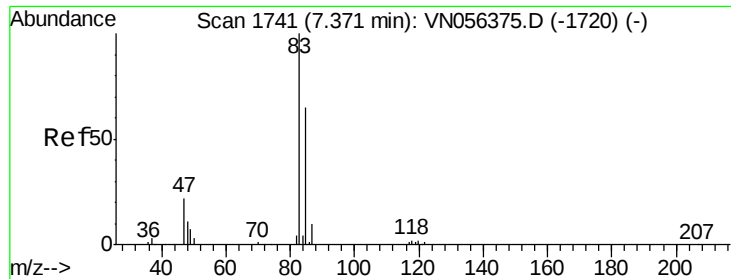
72 36.2 34.7 52.1

71 0.0 33.0 49.6#



Abundance Ion 42.00 (41.70 to 42.70): VN0

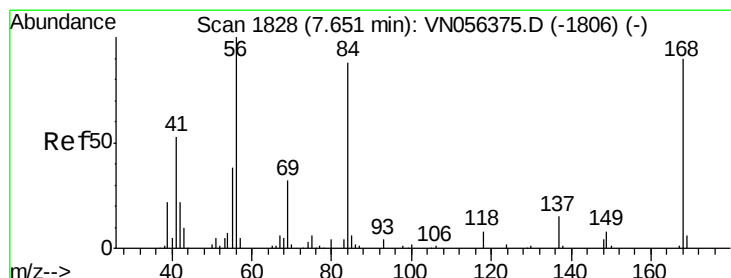
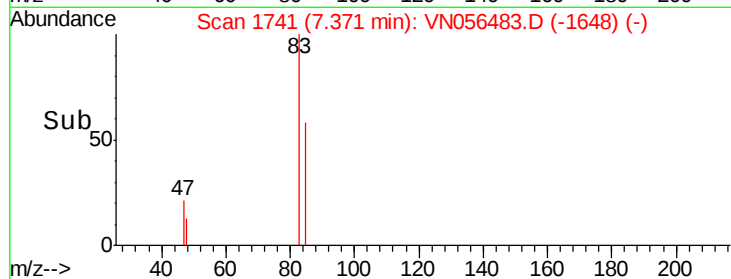
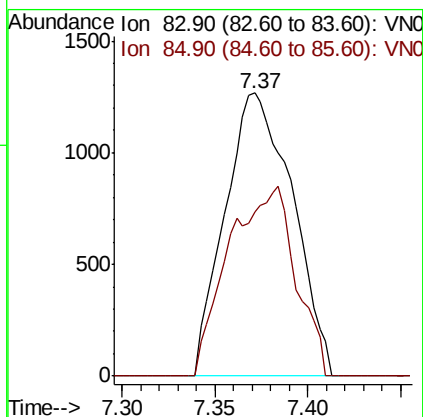
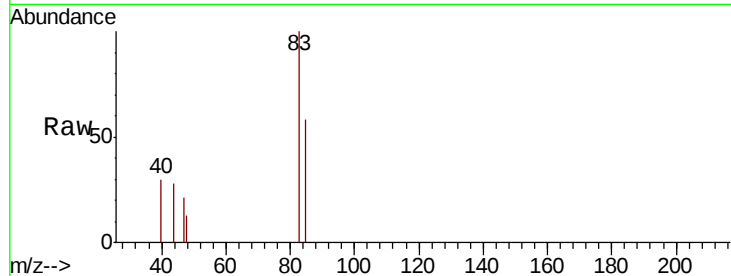




#30
Chloroform
Concen: 0.516 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN056483.D
Acq: 25 Jun 2019 13:55

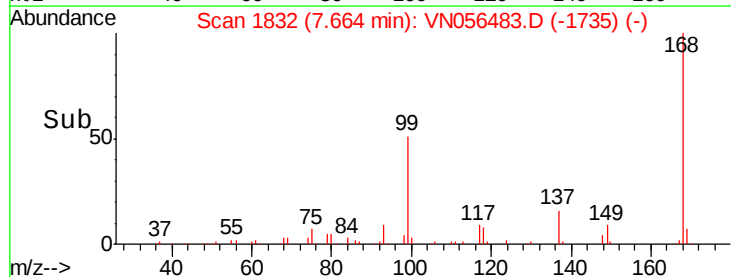
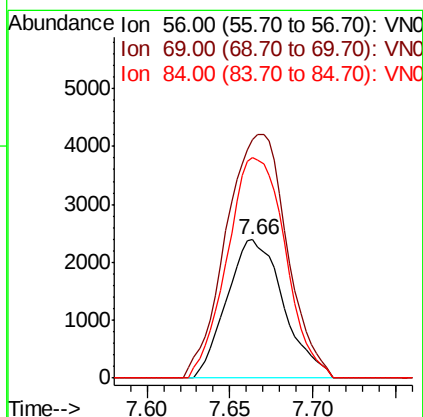
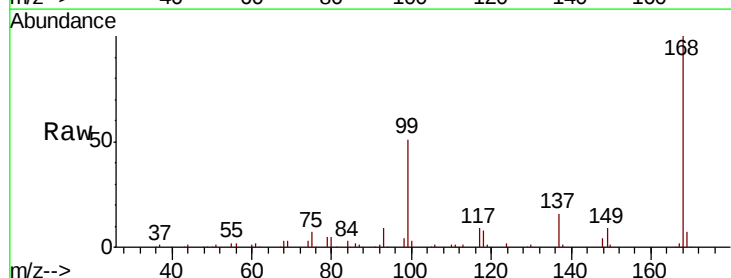
Instrument :
MSVOA_N
ClientSampled :
HD-02-062419

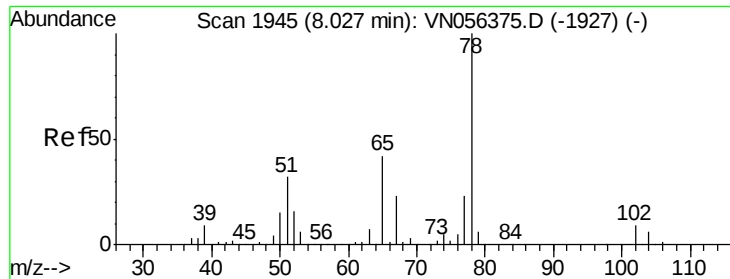
Tot Ion: 83 Resp: 3204
Ion Ratio Lower Upper
83 100
85 58.2 52.3 78.5



#31
Cyclohexane
Concen: 0.941 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056483.D
Acq: 25 Jun 2019 13:55

Tgt Ion: 56 Resp: 5720
Ion Ratio Lower Upper
56 100
69 173.0 25.8 38.6#
84 159.8 69.4 104.0#





#33

1,2-Dichloroethane-d4

Concen: 52.261 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

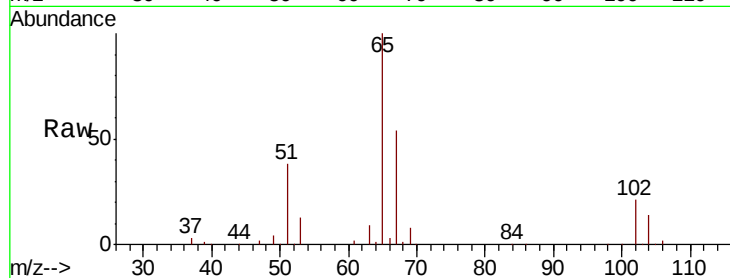
HD-02-062419

Tot Ion: 65 Resp: 205614

Ion Ratio Lower Upper

65 100

67 54.1 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

100000

80000

60000

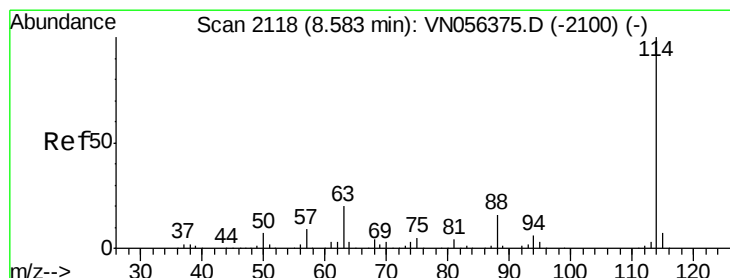
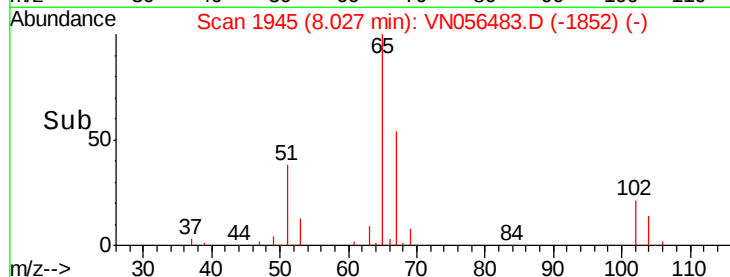
40000

20000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

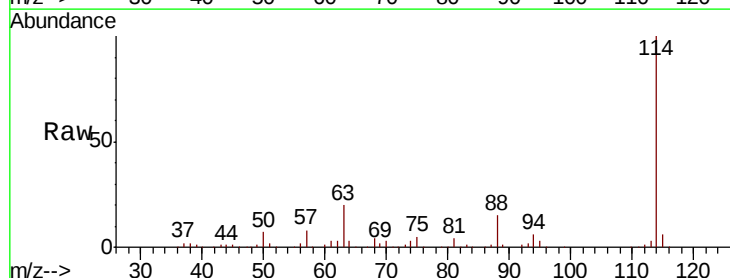
Tgt Ion: 114 Resp: 613959

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.2

88 15.4 0.0 31.4



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

8.59

300000

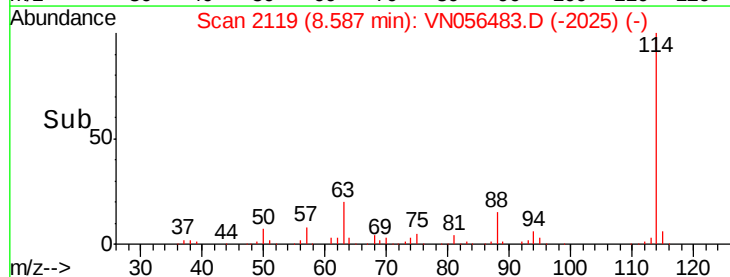
200000

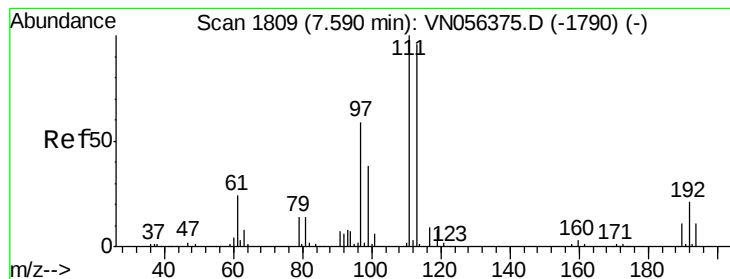
100000

0

Time-->

8.50 8.60 8.70 8.80





#35

Dibromofluoromethane

Concen: 46.787 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

HD-02-062419

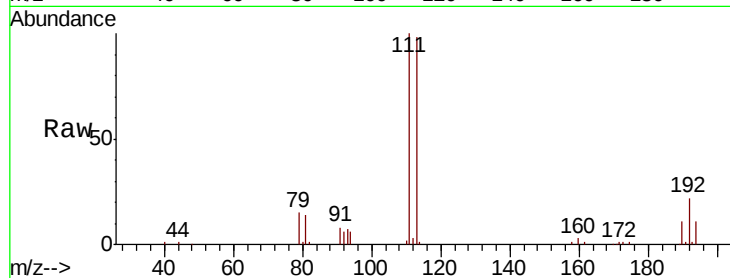
Tot Ion:113 Resp: 179199

Ion Ratio Lower Upper

113 100

111 101.5 82.9 124.3

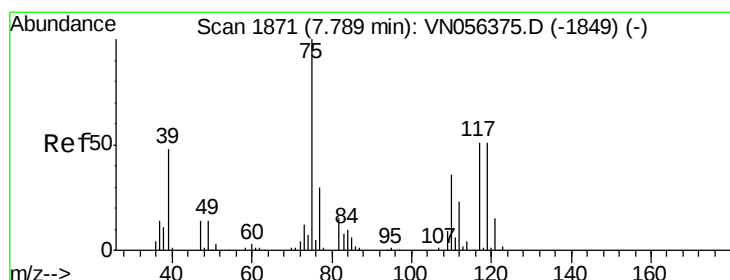
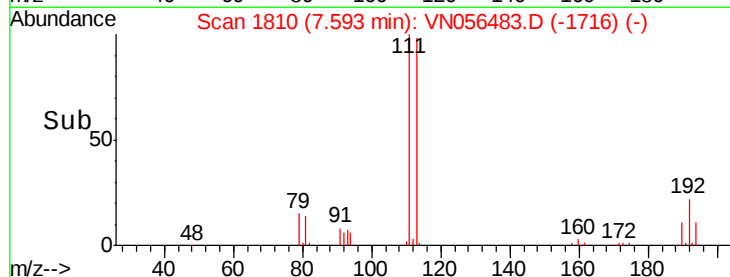
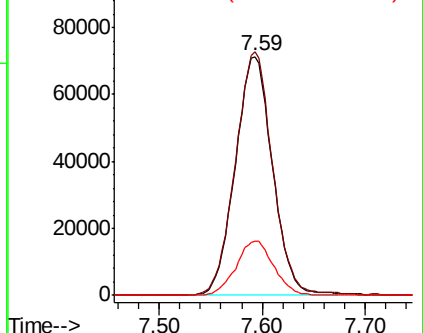
192 22.8 17.7 26.5



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: 4.247 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

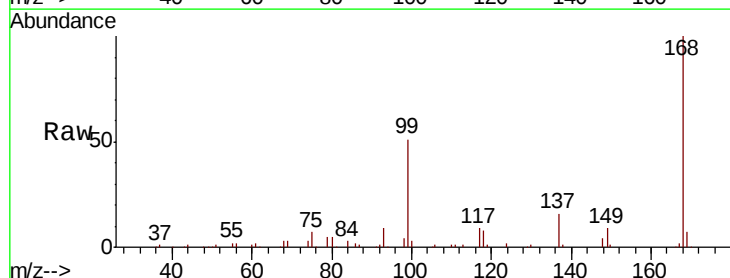
Tgt Ion: 75 Resp: 22953

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.3#

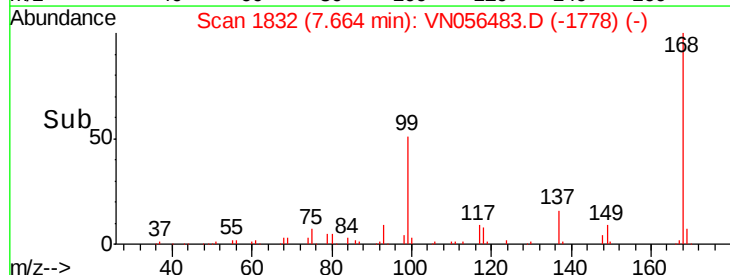
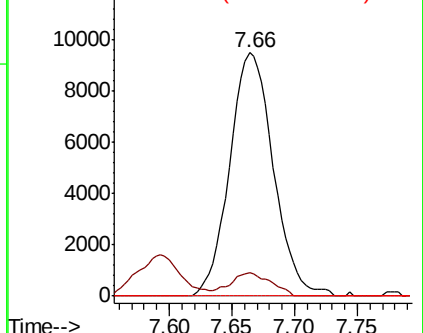
77 0.0 24.6 36.8#

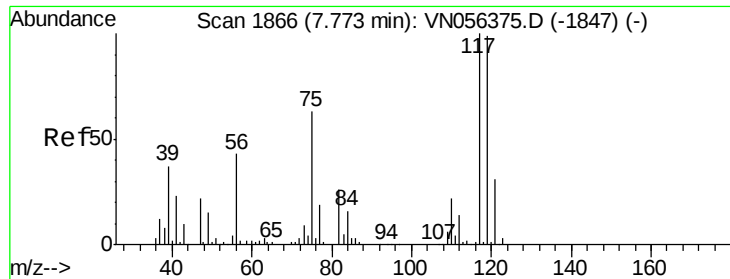


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

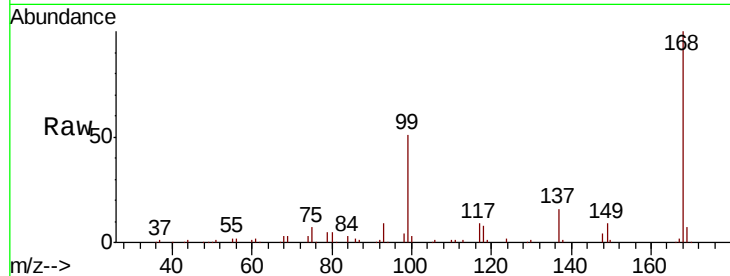




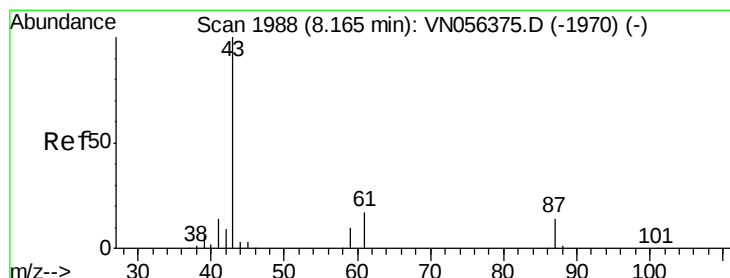
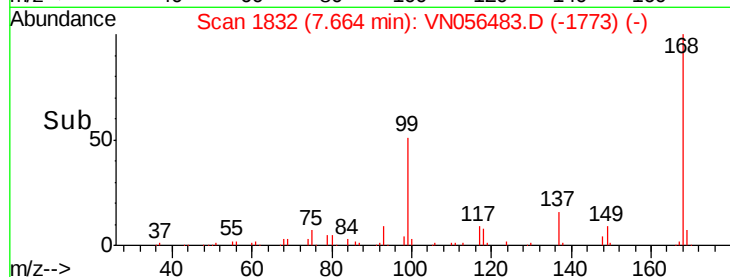
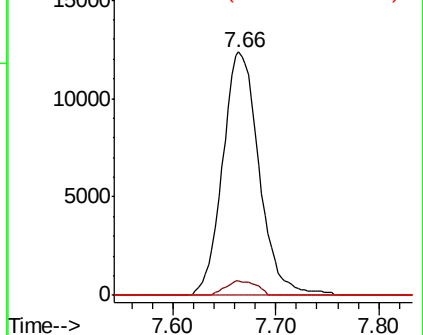
#38
Carbon Tetrachloride
Concen: 6.442 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056483.D
Acq: 25 Jun 2019 13:55

Instrument :
MSVOA_N
ClientSampleId :
HD-02-062419

Tot Ion:117 Resp: 30442
Ion Ratio Lower Upper
117 100
119 5.7 79.1 118.7#
121 0.0 24.8 37.2#

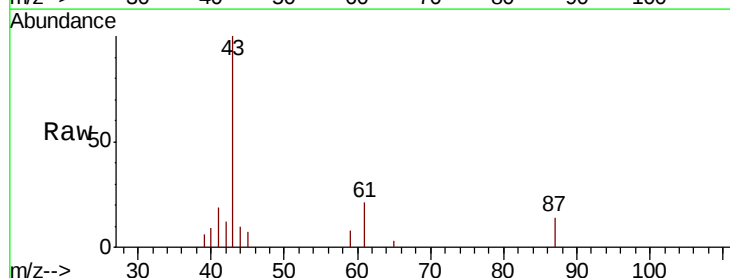


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

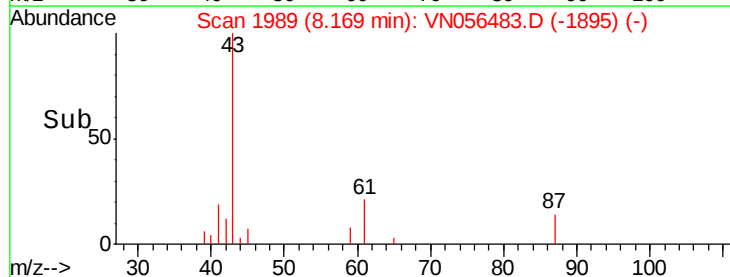
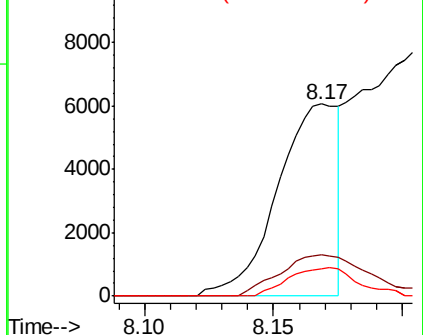


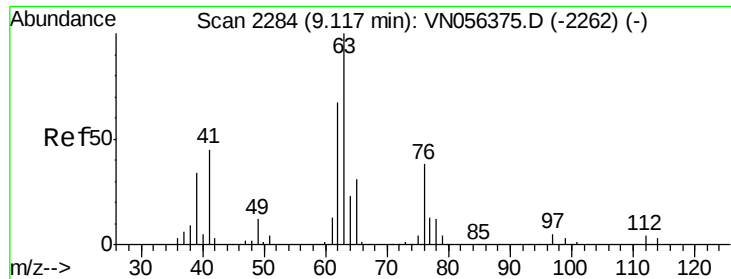
#43
Isopropyl Acetate
Concen: 1.219 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN056483.D
Acq: 25 Jun 2019 13:55

Tgt Ion: 43 Resp: 9979
Ion Ratio Lower Upper
43 100
61 32.4 22.0 33.0
87 16.8 11.0 16.4#



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

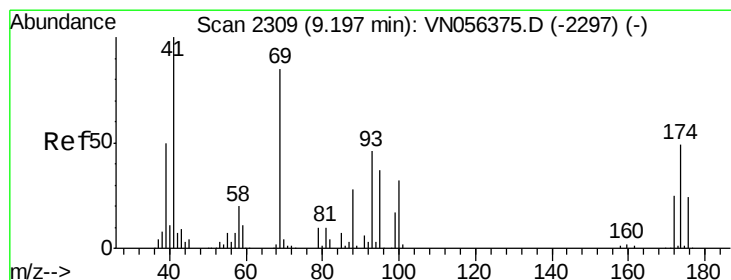
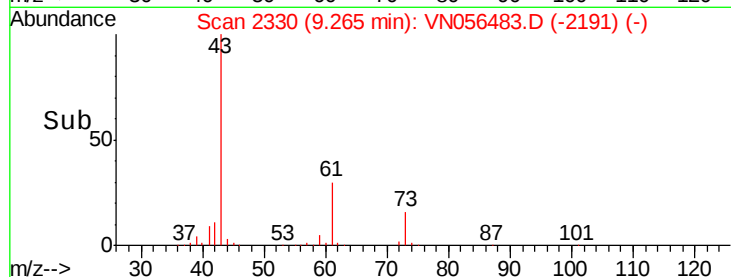
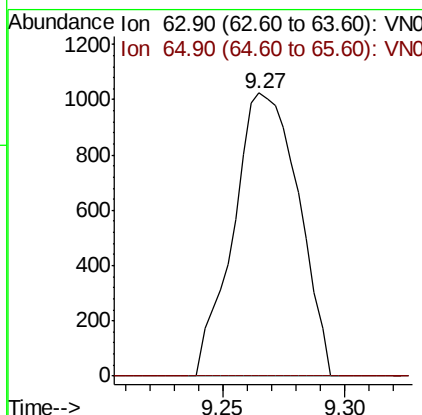
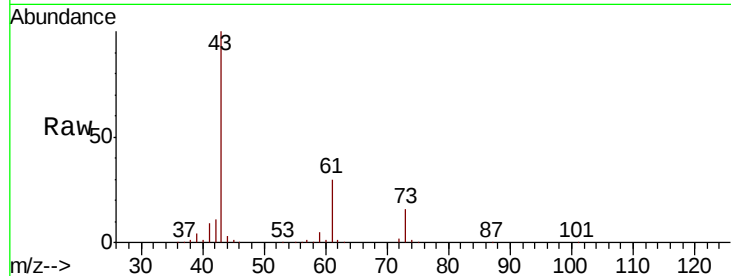




#45
 1,2-Dichloropropane
 Concen: 0.425 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN056483.D
 Acq: 25 Jun 2019 13:55

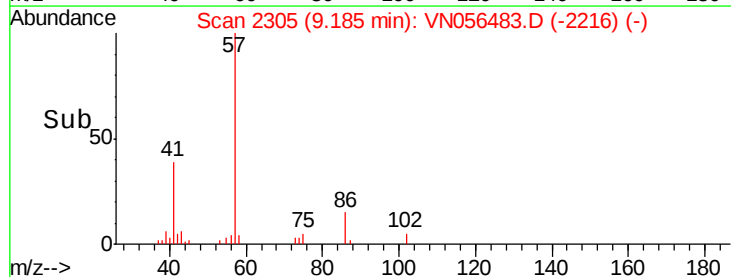
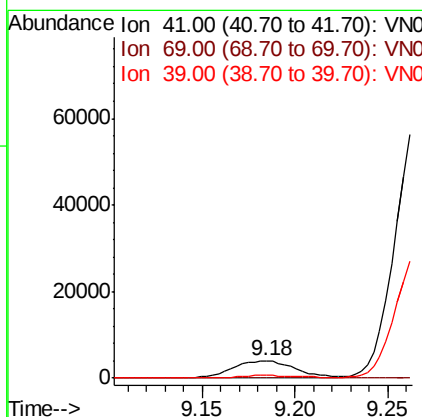
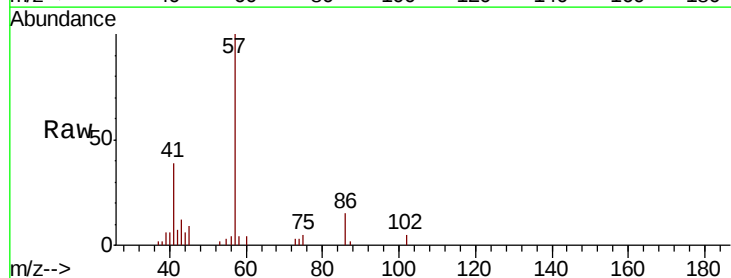
Instrument :
 MSVOA_N
 ClientSampleId :
 HD-02-062419

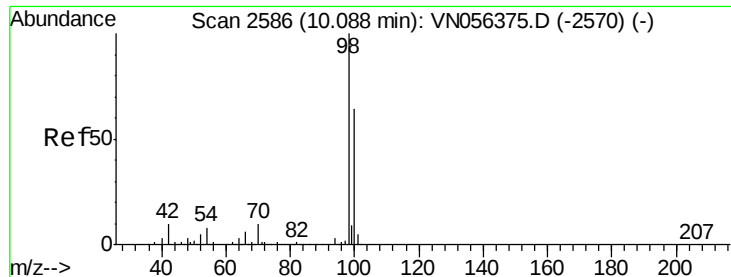
Tot Ion: 63 Resp: 1891
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 2.078 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.01 min
 Lab File: VN056483.D
 Acq: 25 Jun 2019 13:55

Tgt Ion: 41 Resp: 8526
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 109.0#
 39 0.0 42.6 63.8#





#50

Toluene-d8

Concen: 51.326 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

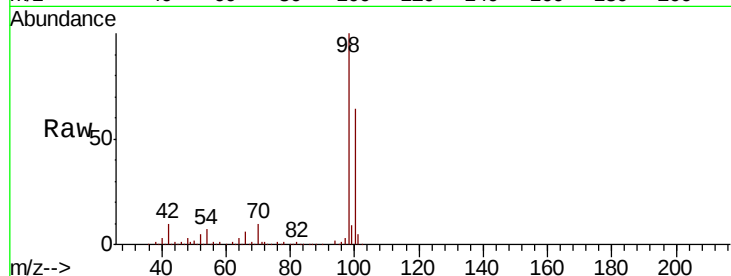
HD-02-062419

Tot Ion: 98 Resp: 764918

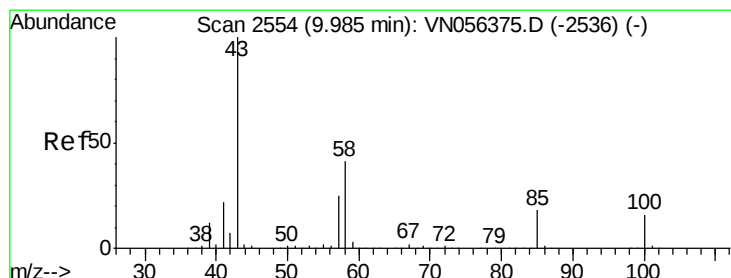
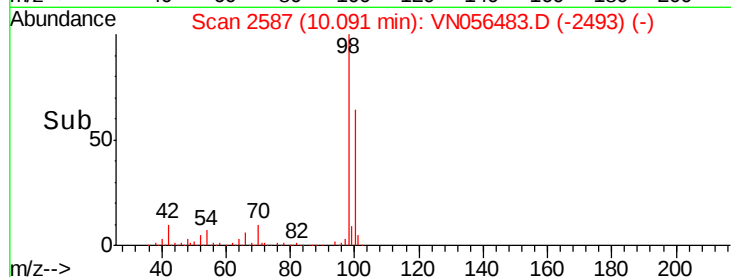
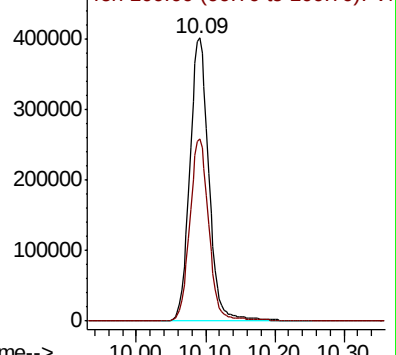
Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN056375.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.789 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056483.D

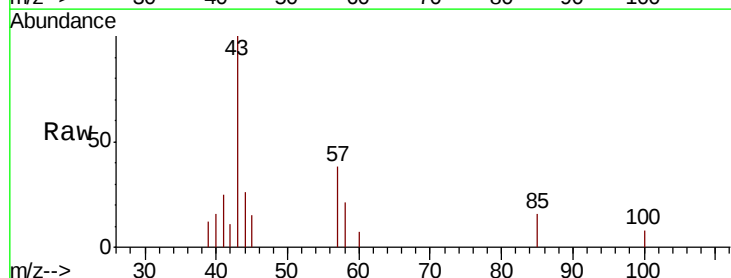
Acq: 25 Jun 2019 13:55

Tgt Ion: 43 Resp: 4172

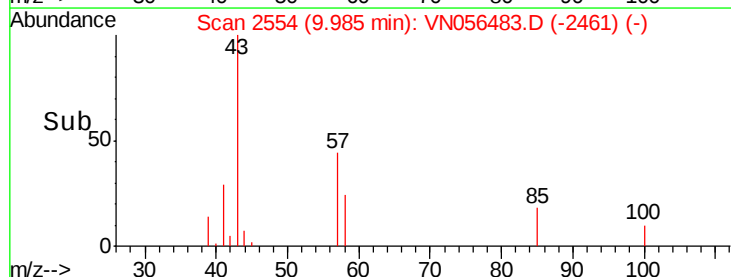
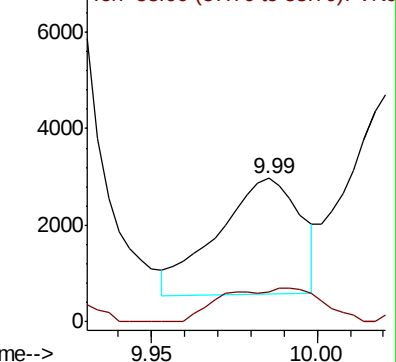
Ion Ratio Lower Upper

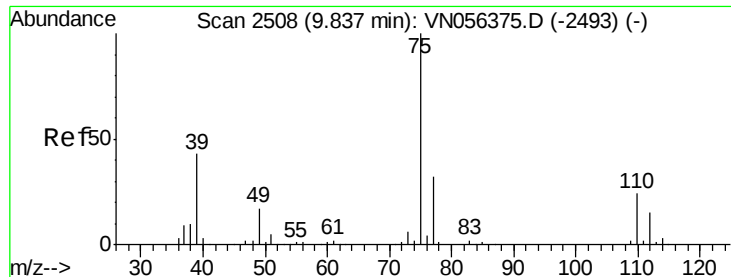
43 100

58 15.6 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN056375.D (-2536) (-)





#54

cis-1,3-Dichloropropene

Concen: 9.942 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

HD-02-062419

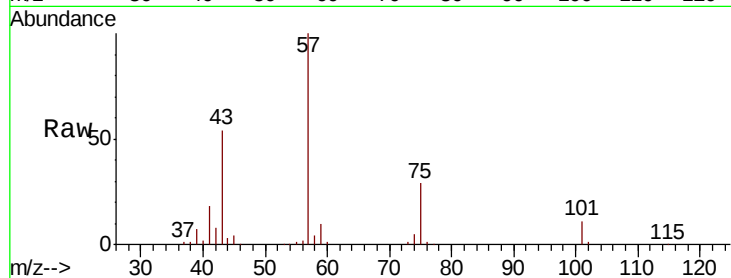
Tot Ion: 75 Resp: 59057

Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

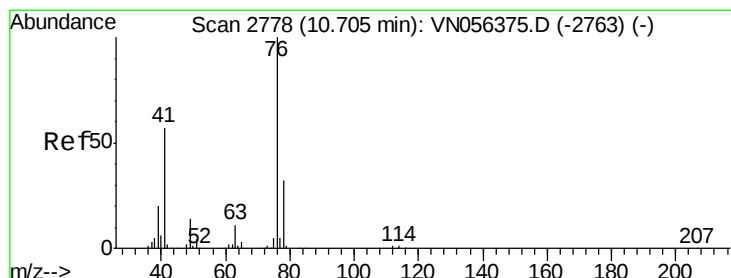
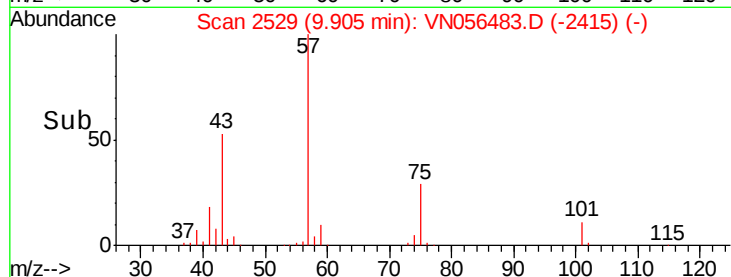
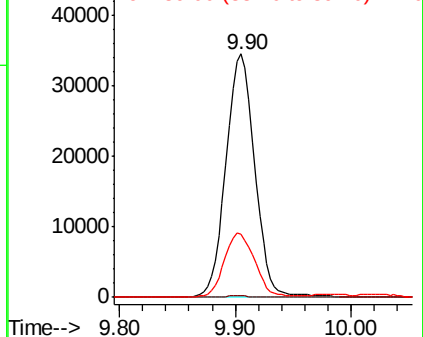
39 25.8 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.773 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN056483.D

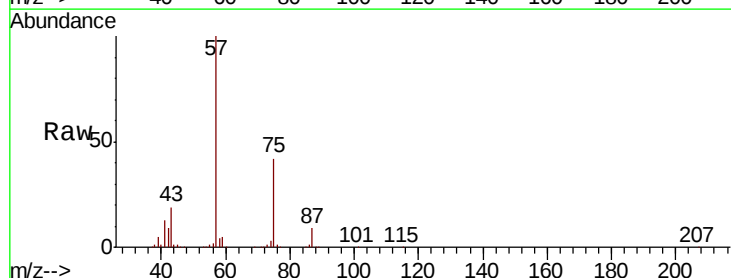
Acq: 25 Jun 2019 13:55

Tgt Ion: 76 Resp: 12165

Ion Ratio Lower Upper

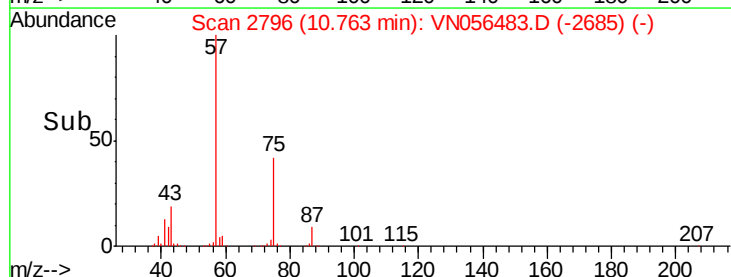
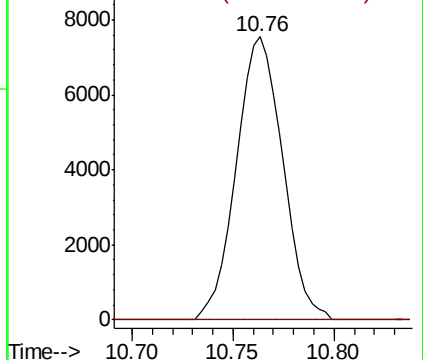
76 100

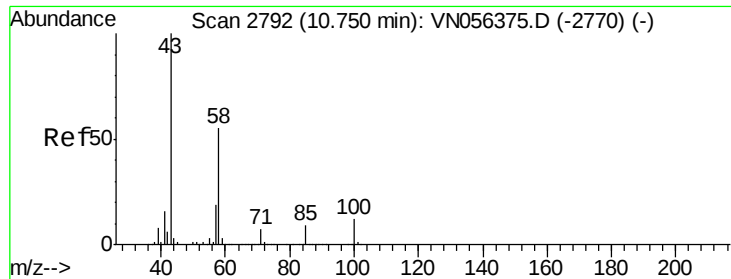
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

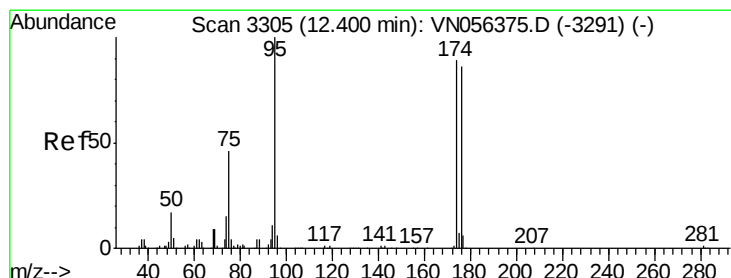
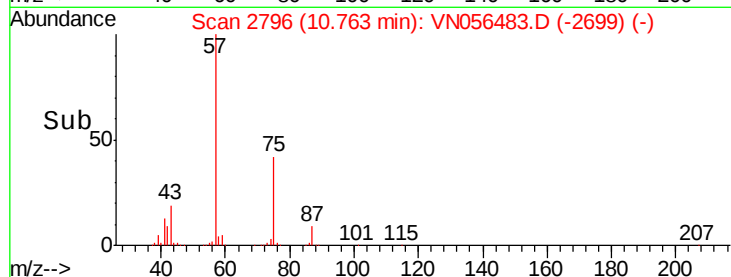
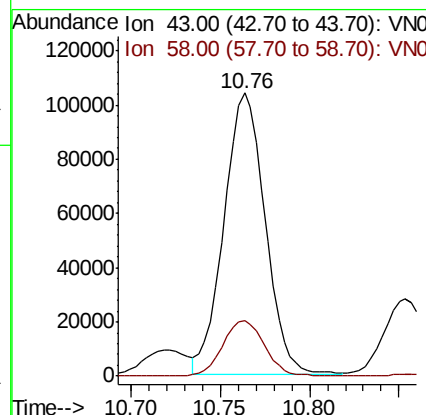
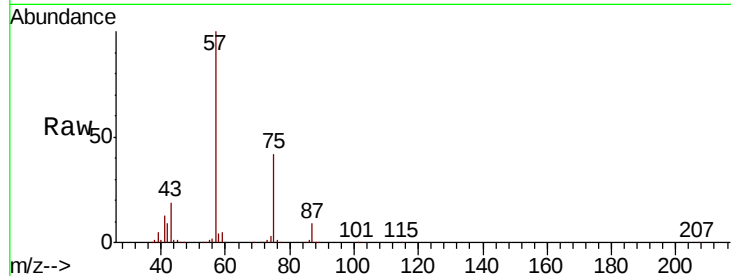




#59
2-Hexanone
Concen: 43.036 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056483.D
Acq: 25 Jun 2019 13:55

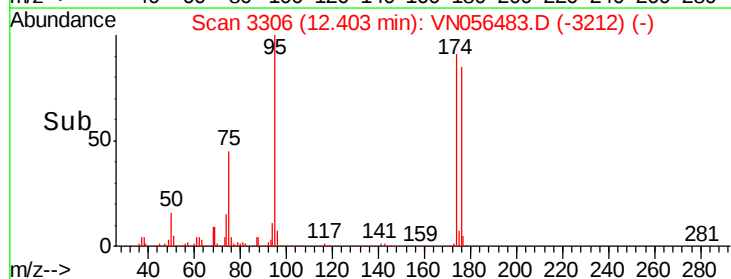
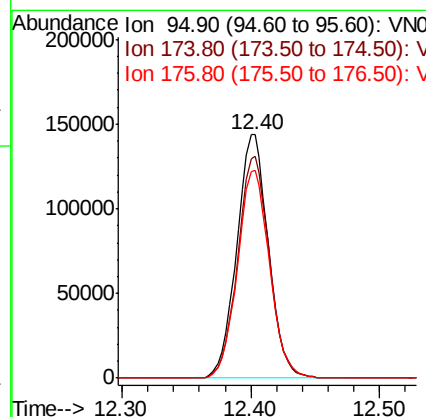
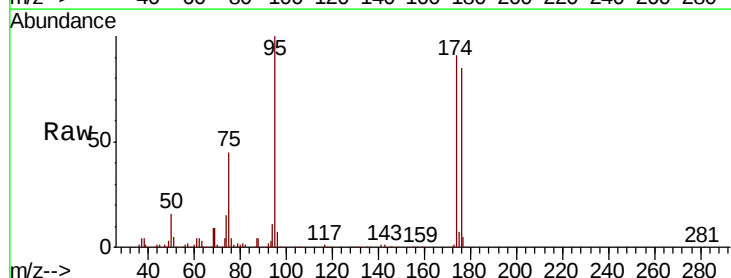
Instrument :
MSVOA_N
ClientSampleId :
HD-02-062419

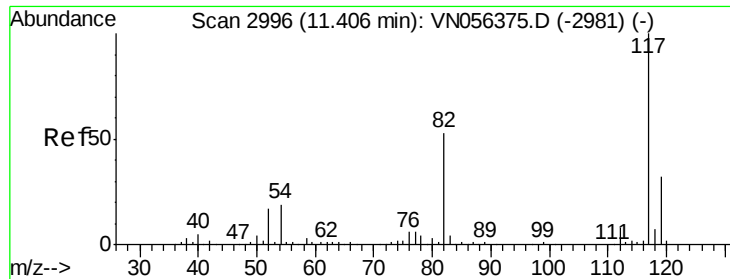
Tot Ion: 43 Resp: 167180
Ion Ratio Lower Upper
43 100
58 20.1 27.8 83.4#



#62
4-Bromofluorobenzene
Concen: 49.256 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN056483.D
Acq: 25 Jun 2019 13:55

Tgt Ion: 95 Resp: 244708
Ion Ratio Lower Upper
95 100
174 91.4 0.0 179.4
176 86.6 0.0 173.4

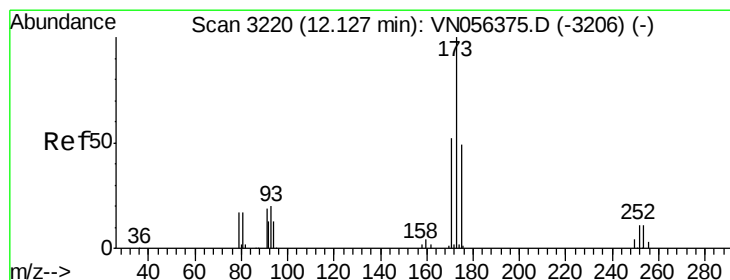
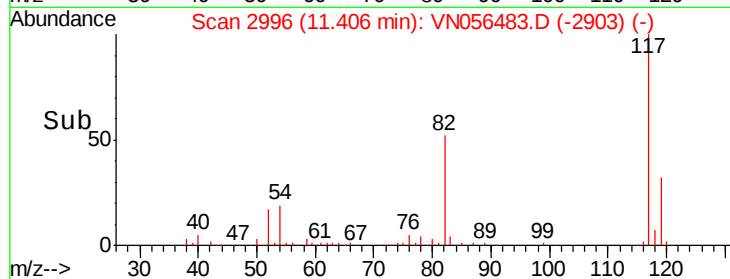
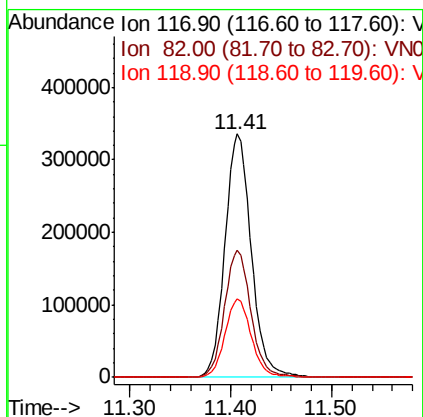
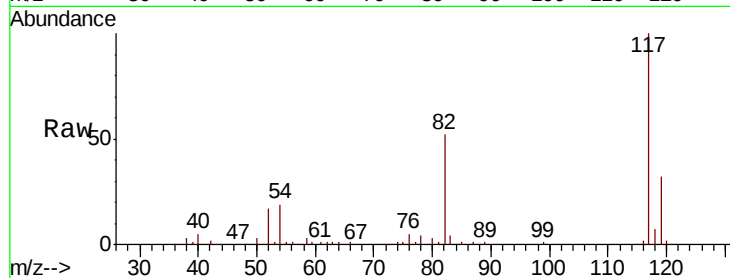




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056483.D
Acq: 25 Jun 2019 13:55

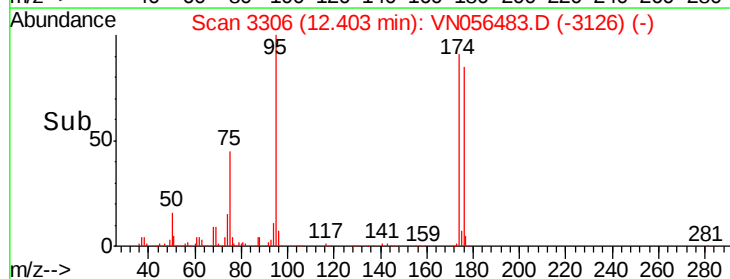
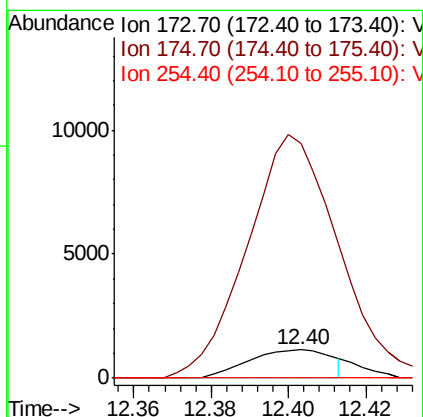
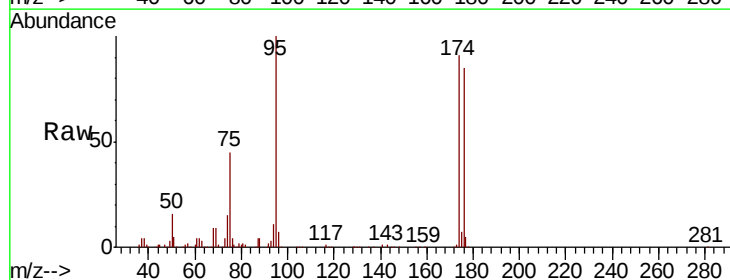
Instrument :
MSVOA_N
ClientSampleId :
HD-02-062419

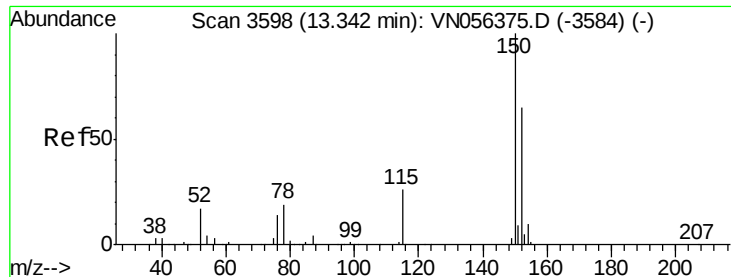
Tot Ion:117 Resp: 612107
Ion Ratio Lower Upper
117 100
82 52.0 42.0 63.0
119 32.1 25.3 37.9



#71
Bromoform
Concen: 3.620 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056483.D
Acq: 25 Jun 2019 13:55

Tgt Ion:173 Resp: 1708
Ion Ratio Lower Upper
173 100
175 822.8 24.4 73.4#
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: VN056483.D

Acq: 25 Jun 2019 13:55

Instrument :

MSVOA_N

ClientSampleId :

HD-02-062419

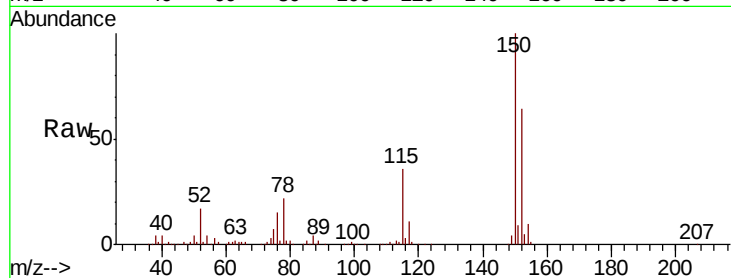
Tot Ion:152 Resp: 173246

Ion Ratio Lower Upper

152 100

115 56.0 28.1 84.4

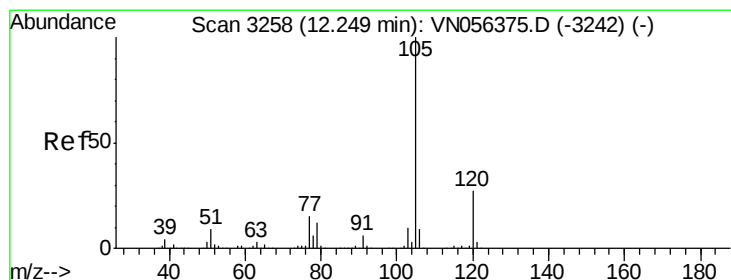
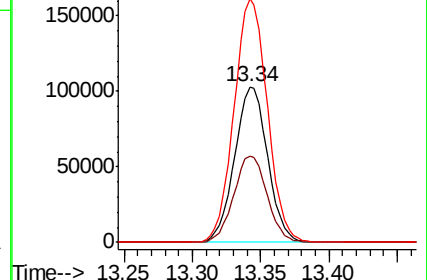
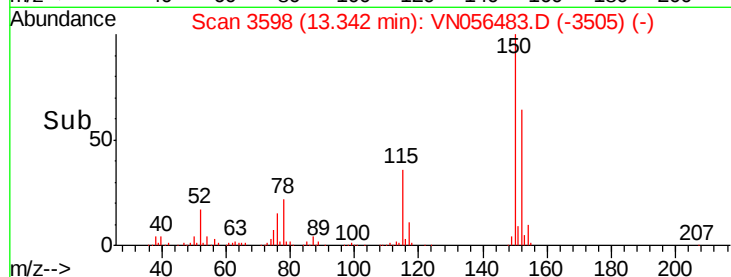
150 157.9 0.0 348.4



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. 0.15 min

Lab File: VN056483.D

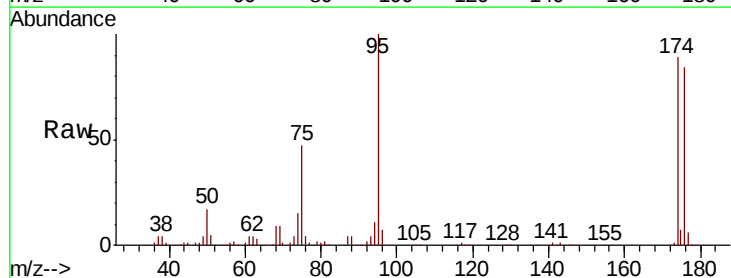
Acq: 25 Jun 2019 13:55

Tgt Ion:105 Resp: 174

Ion Ratio Lower Upper

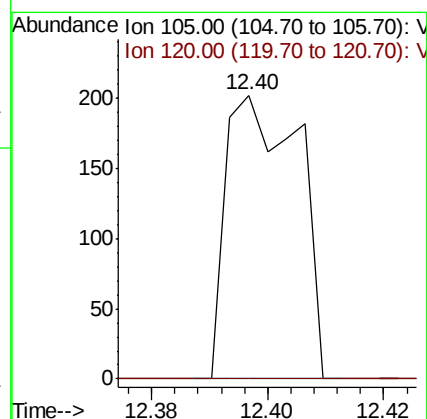
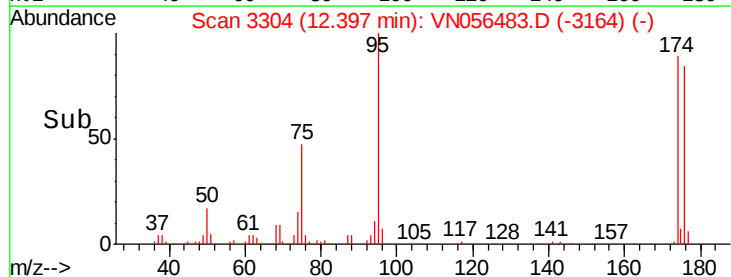
105 100

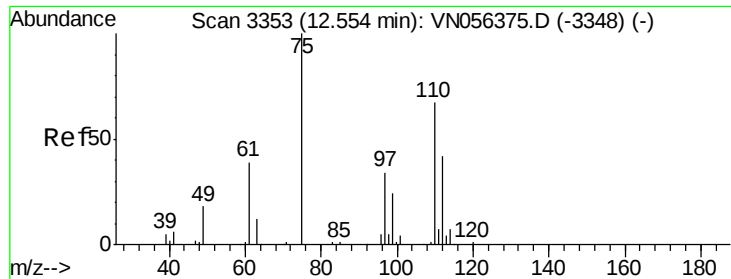
120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

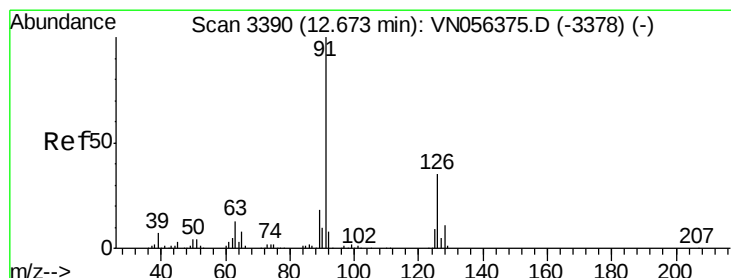
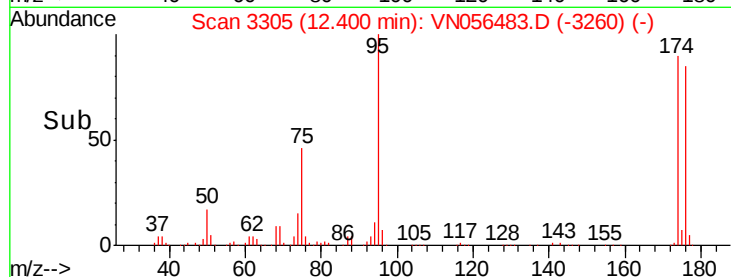
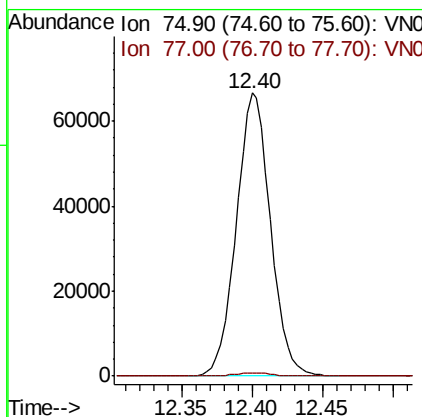
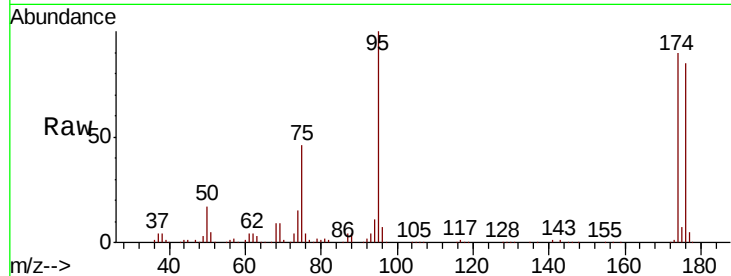




#76
 1,2,3-Trichloropropane
 Concen: 31.406 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN056483.D
 Acq: 25 Jun 2019 13:55

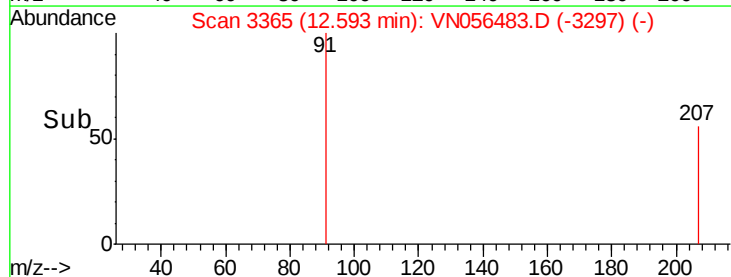
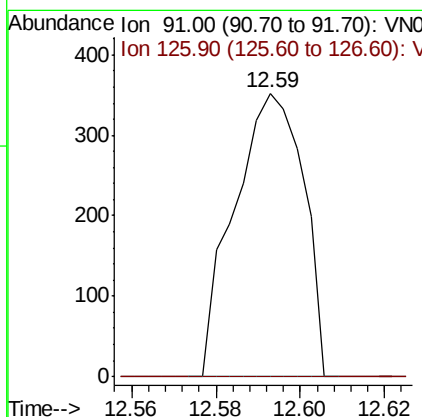
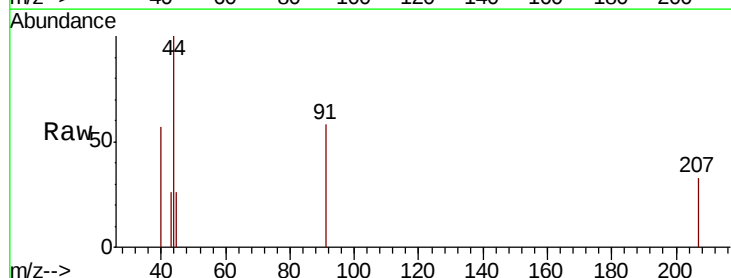
Instrument :
 MSVOA_N
 ClientSampleId :
 HD-02-062419

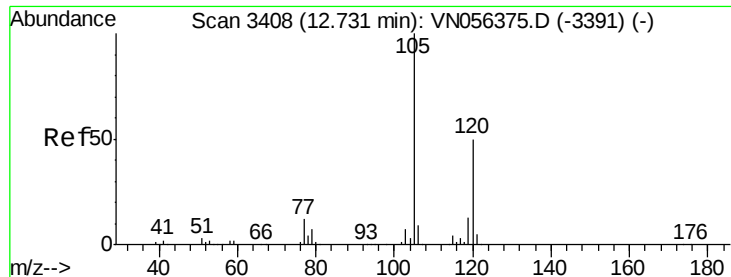
Tot Ion: 75 Resp: 112819
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.59 min Scan# 3365
 Delta R.T. -0.08 min
 Lab File: VN056483.D
 Acq: 25 Jun 2019 13:55

Tgt Ion: 91 Resp: 400
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.6 52.8#





#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

Instrument :

MSVOA_N

ClientSampled :

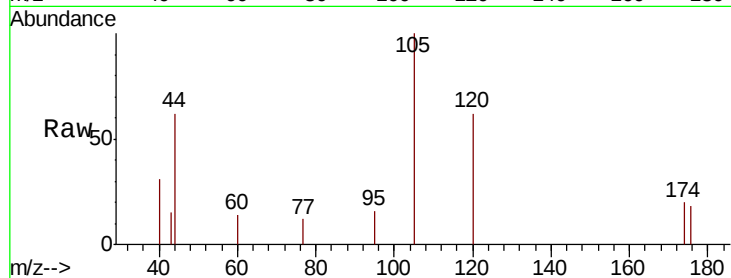
HD-02-062419

Tot Ion:105 Resp: 2144

Ion Ratio Lower Upper

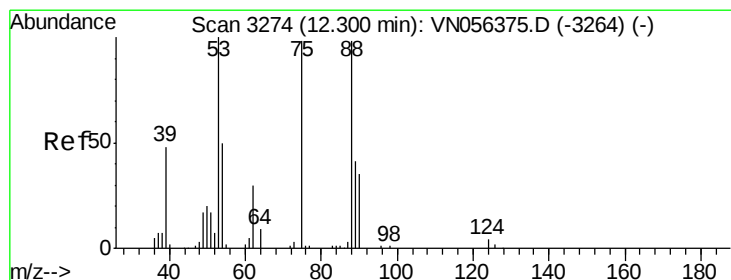
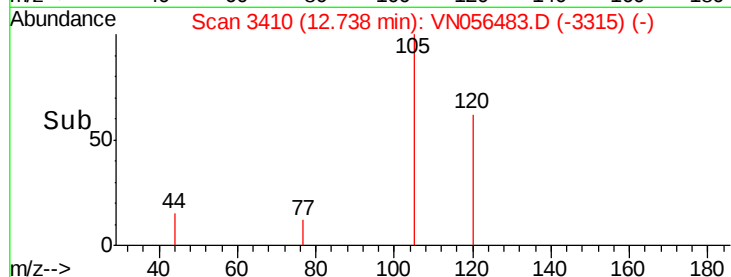
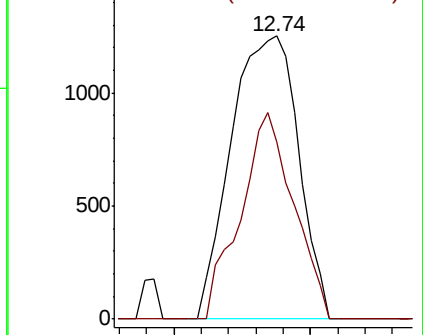
105 100

120 57.6 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 111.621 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056483.D

Acq: 25 Jun 2019 13:55

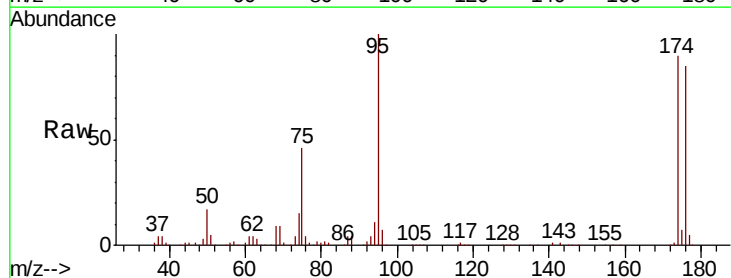
Tgt Ion: 75 Resp: 112819

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

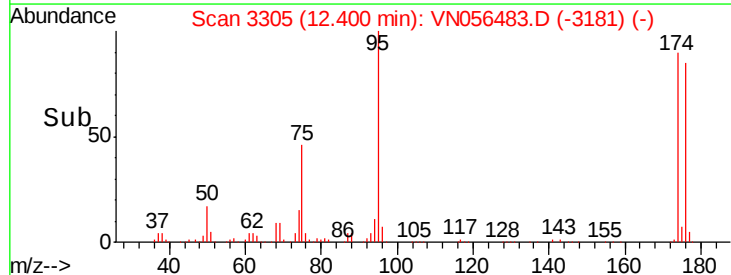
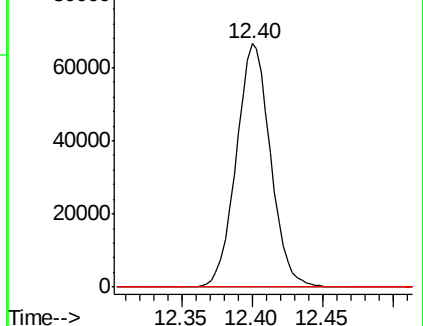
89 0.0 35.0 52.6#

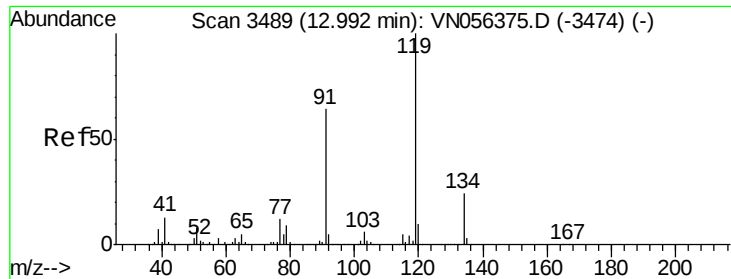


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

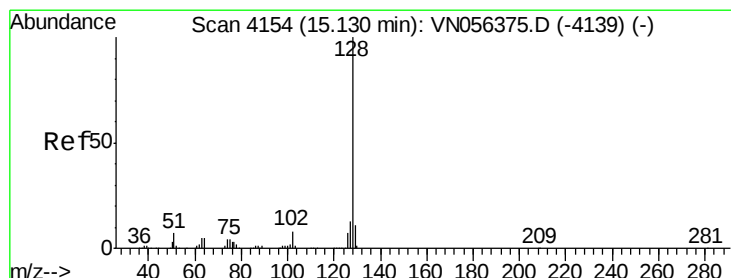
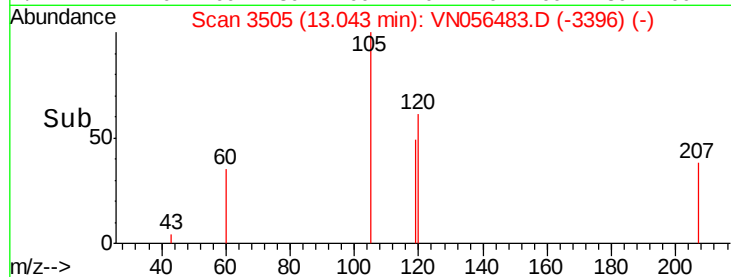
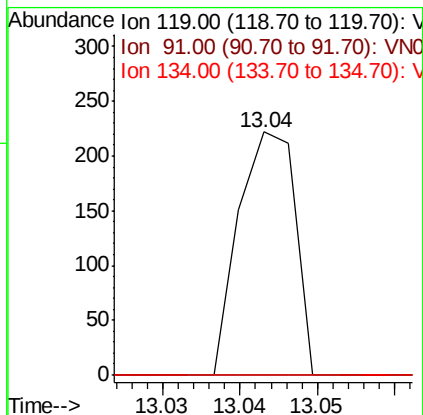
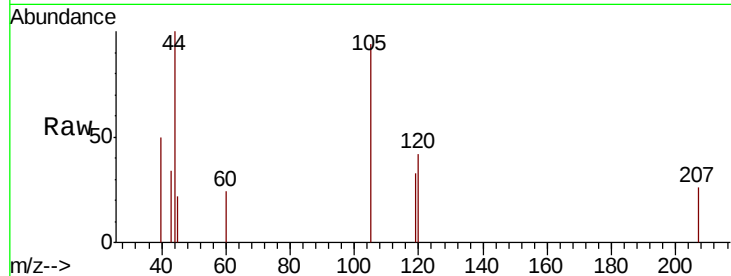




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.05 min
 Lab File: VN056483.D
 Acq: 25 Jun 2019 13:55

Instrument :
 MSVOA_N
 ClientSampled :
 HD-02-062419

Tot Ion:119 Resp: 113
 Ion Ratio Lower Upper
 119 100
 91 0.0 31.6 94.7#
 134 0.0 13.2 39.5#



#95
 Naphthalene
 Concen: 5.421 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN056483.D
 Acq: 25 Jun 2019 13:55

Tgt Ion:128 Resp: 1561
 Ion Ratio Lower Upper
 128 100
 127 4.2 10.2 15.2#
 129 0.0 8.6 12.8#

