

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092619\
 Data File : VN058382.D
 Acq On : 26 Sep 2019 13:51
 Operator : JC/SP
 Sample : K5039-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 40245-247-248

Quant Time: Sep 27 02:34:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	487272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	809504	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	708001	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	287256	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	363017	53.49	ug/l	0.00
Spiked Amount			Recovery	=	106.98%	
35) Dibromofluoromethane	7.57	113	252101	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
50) Toluene-d8	10.09	98	1035049	53.98	ug/l	0.00
Spiked Amount			Recovery	=	107.96%	
62) 4-Bromofluorobenzene	12.41	95	328471	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	

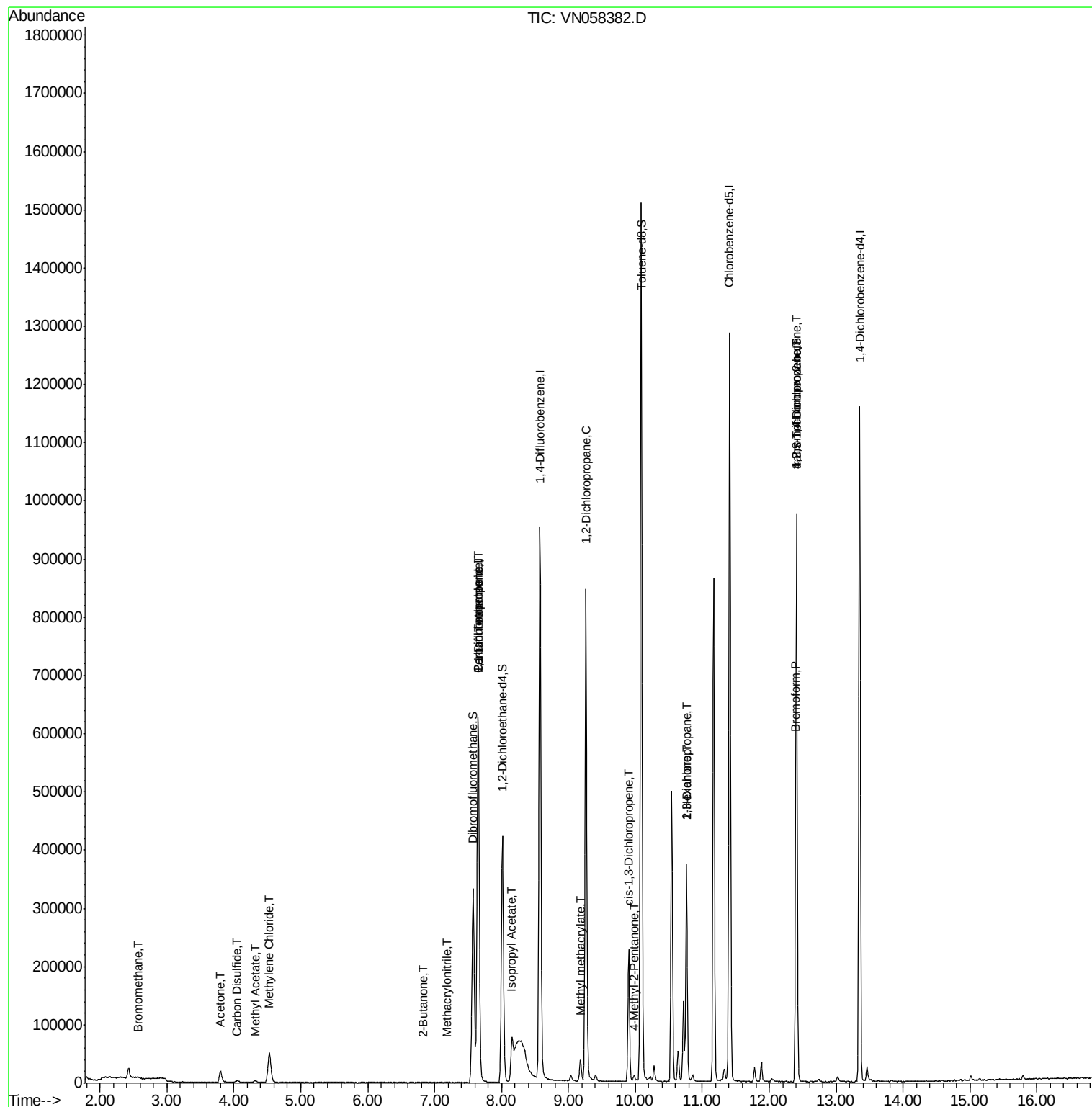
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	474	Below Cal	#	46
5) Bromomethane	2.56	94	483	0.989	ug/l	94
6) Chloroethane	2.68	64	48	Below Cal	#	44
16) Acetone	3.80	43	31963	13.875	ug/l	95
17) Carbon Disulfide	4.03	76	497	0.388	ug/l #	74
18) Methyl Acetate	4.31	43	5541	0.914	ug/l #	74
20) Methylene Chloride	4.53	84	38028	9.248	ug/l	96
25) 2-Butanone	6.83	43	756	0.241	ug/l #	51
31) Cyclohexane	7.65	56	13096	Below Cal	#	7
36) 1,1-Dichloropropene	7.65	75	42509	7.282	ug/l #	51
38) Carbon Tetrachloride	7.65	117	51173	8.720	ug/l #	15
41) Methacrylonitrile	7.18	41	297	1.006	ug/l #	100
43) Isopropyl Acetate	8.16	43	107665	9.516	ug/l #	82
45) 1,2-Dichloropropane	9.26	63	1183	0.222	ug/l #	45
48) Methyl methacrylate	9.18	41	6029	1.174	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	7791	1.296	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	38207	4.981	ug/l #	72
57) 1,3-Dichloropropane	10.76	76	3643	0.427	ug/l #	43
59) 2-Hexanone	10.76	43	57032	12.778	ug/l #	53
71) Bromoform	12.38	173	78	3.617	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	182577	35.514	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	182577	99.260	ug/l #	5

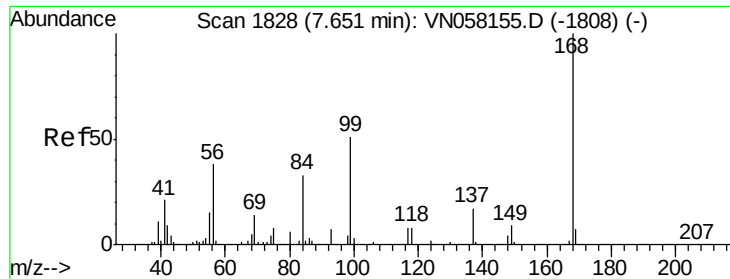
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058382.D

Acq: 26 Sep 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

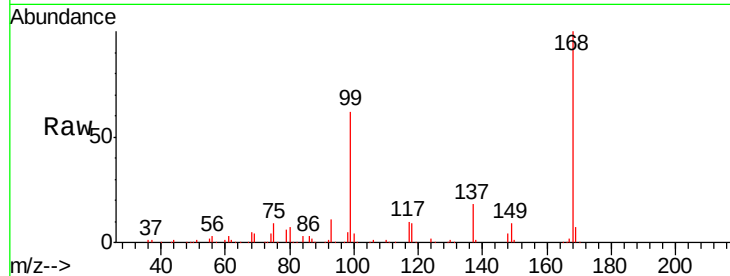
40245-247-248

Tgt Ion:168 Resp: 487272

Ion Ratio Lower Upper

168 100

99 62.4 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

200000

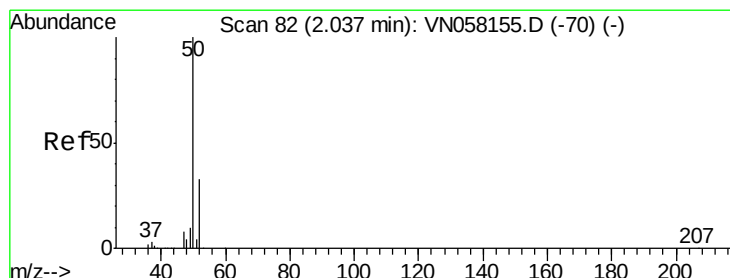
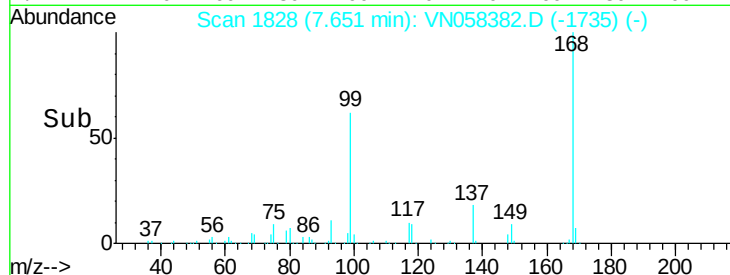
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058382.D

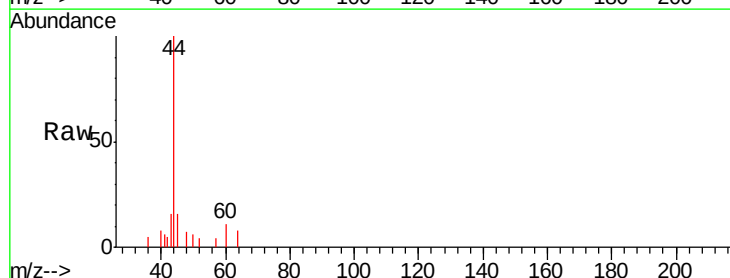
Acq: 26 Sep 2019 13:51

Tgt Ion: 50 Resp: 474

Ion Ratio Lower Upper

50 100

52 63.3 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

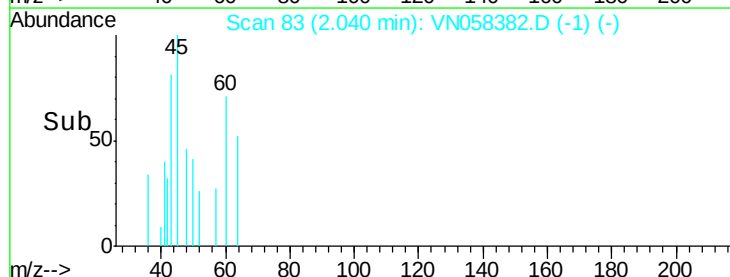
300

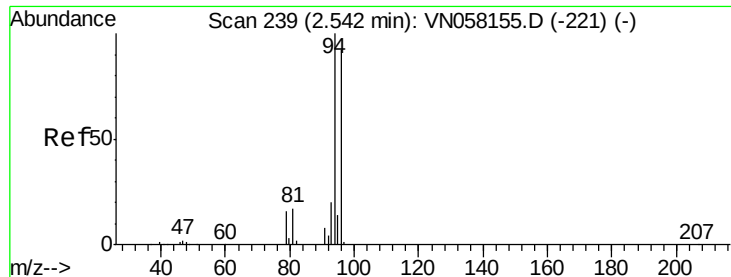
200

100

0

Time-->





#5

Bromomethane

Concen: 0.989 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.02 min

Lab File: VN058382.D

Acq: 26 Sep 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

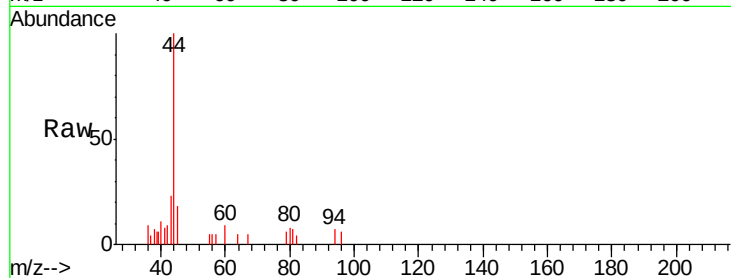
40245-247-248

Tgt Ion: 94 Resp: 483

Ion Ratio Lower Upper

94 100

96 85.5 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

300

250

200

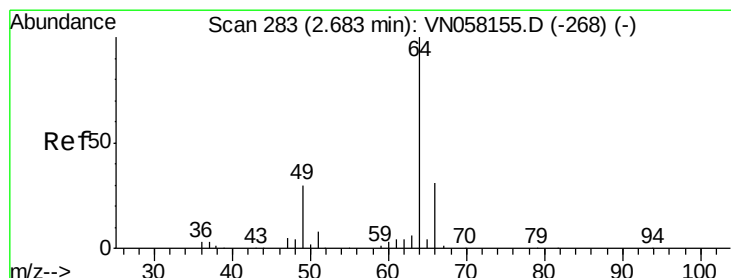
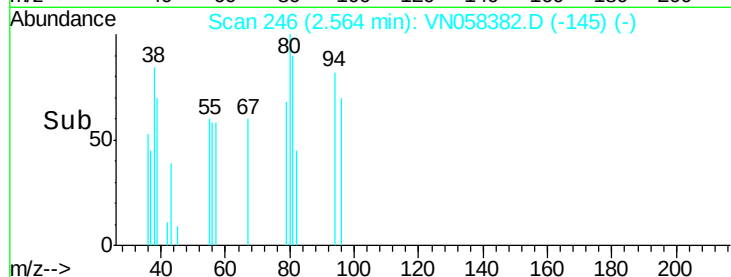
150

100

50

0

Time--> 2.52 2.54 2.56 2.58



#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058382.D

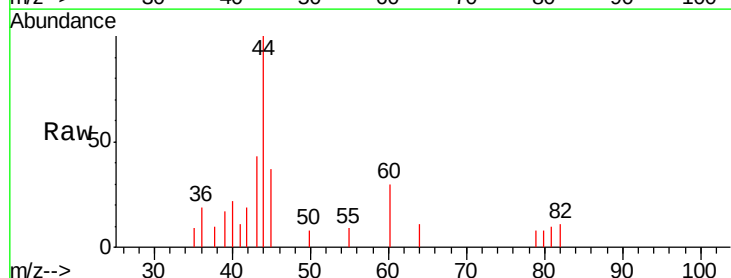
Acq: 26 Sep 2019 13:51

Tgt Ion: 64 Resp: 48

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.68

300

250

200

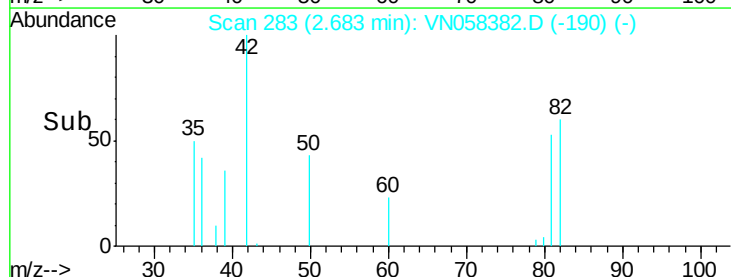
150

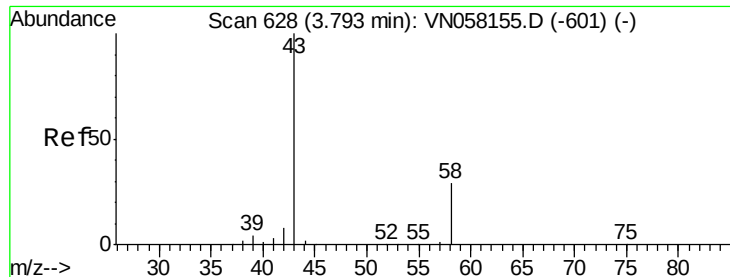
100

50

0

Time--> 2.67 2.68 2.69





#16

Acetone

Concen: 13.875 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058382.D

Acq: 26 Sep 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

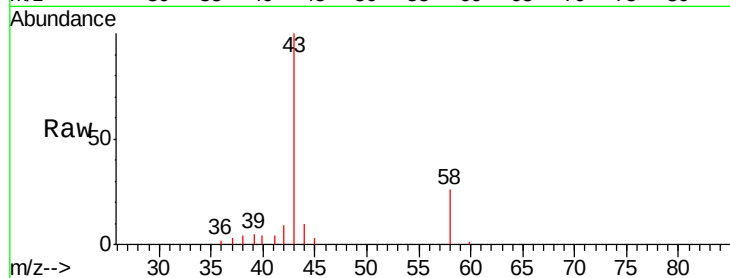
40245-247-248

Tgt Ion: 43 Resp: 31963

Ion Ratio Lower Upper

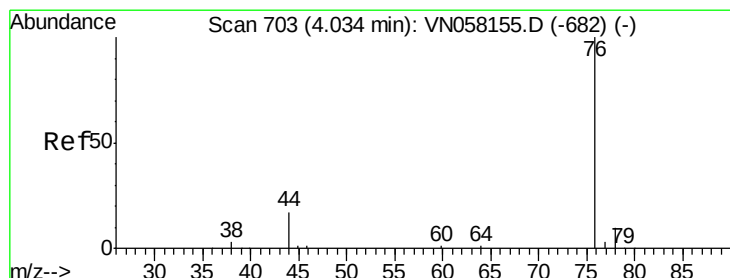
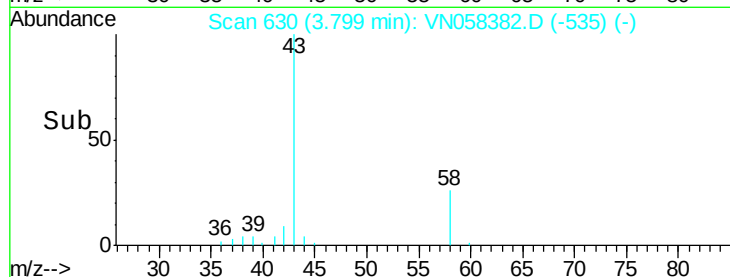
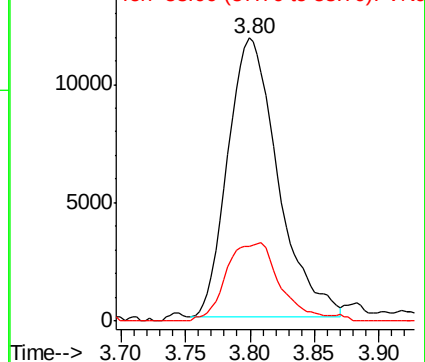
43 100

58 26.8 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.388 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058382.D

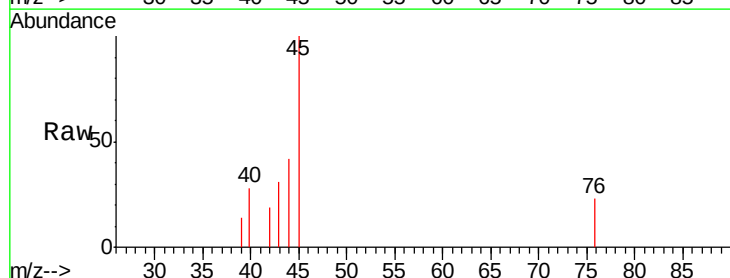
Acq: 26 Sep 2019 13:51

Tgt Ion: 76 Resp: 497

Ion Ratio Lower Upper

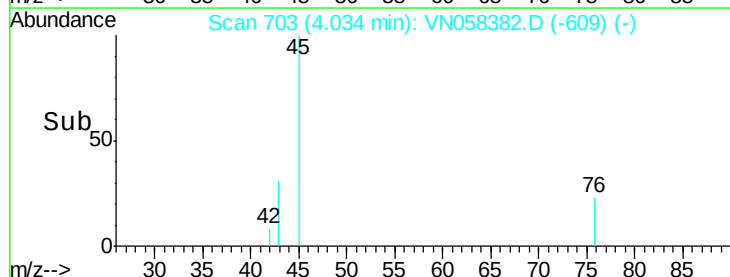
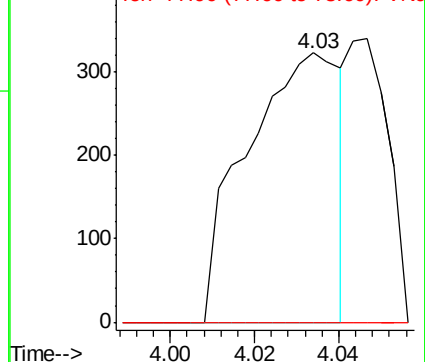
76 100

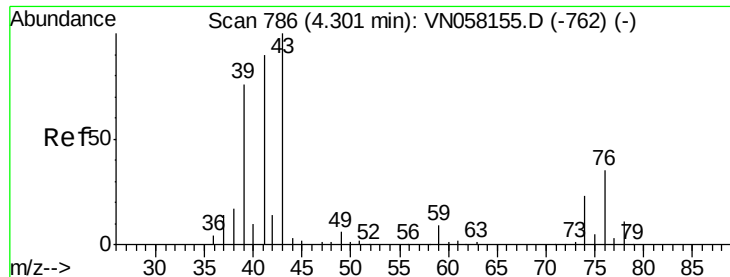
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

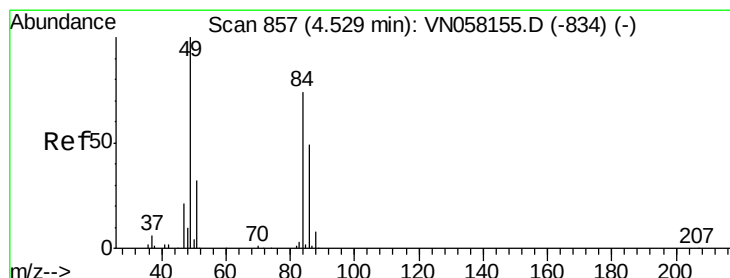
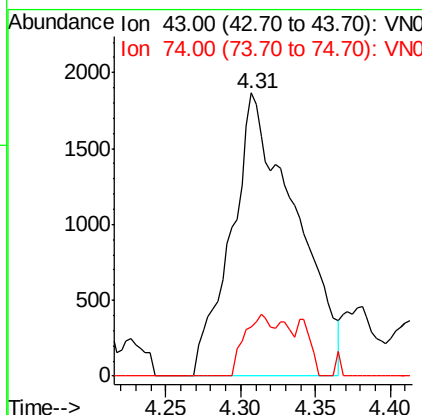
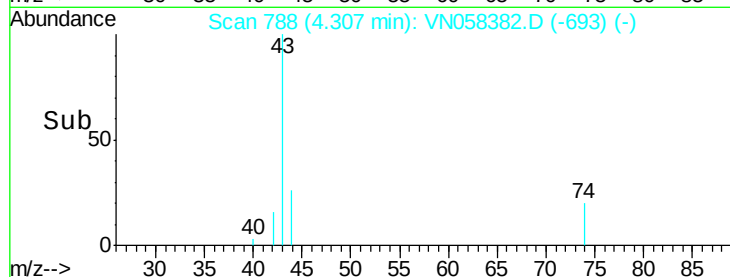
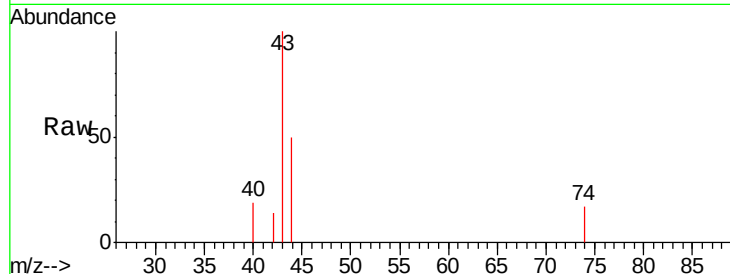




#18
Methyl Acetate
Concen: 0.914 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

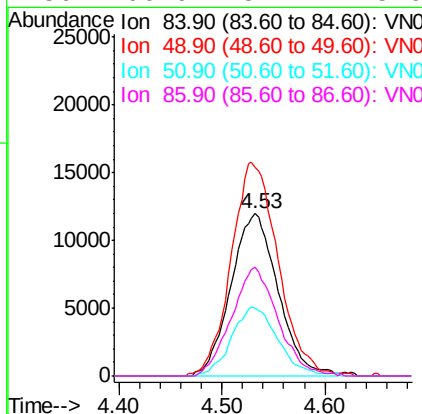
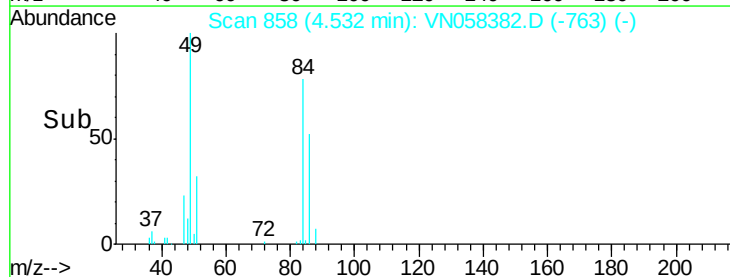
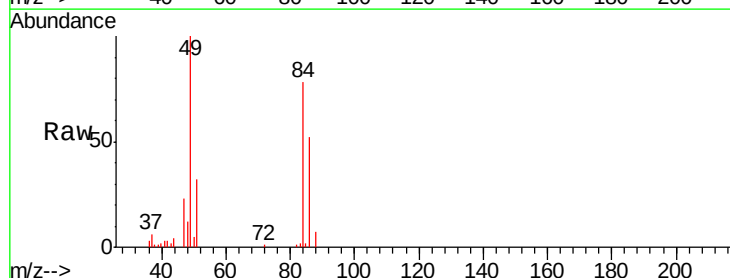
Instrument :
MSVOA_N
ClientSampleId :
40245-247-248

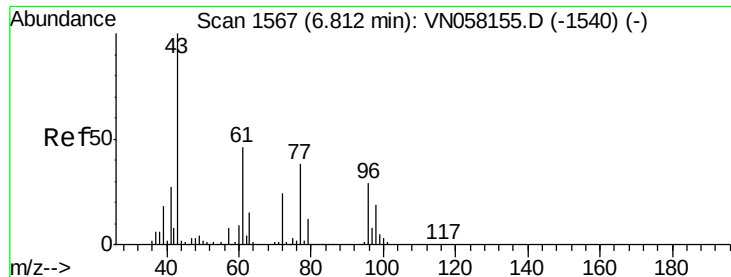
Tgt Ion: 43 Resp: 5541
Ion Ratio Lower Upper
43 100
74 9.9 18.0 27.0#



#20
Methylene Chloride
Concen: 9.248 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

Tgt Ion: 84 Resp: 38028
Ion Ratio Lower Upper
84 100
49 126.9 107.5 161.3
51 41.7 33.9 50.9
86 66.9 52.4 78.6





#25

2-Butanone

Concen: 0.241 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN058382.D

Acq: 26 Sep 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

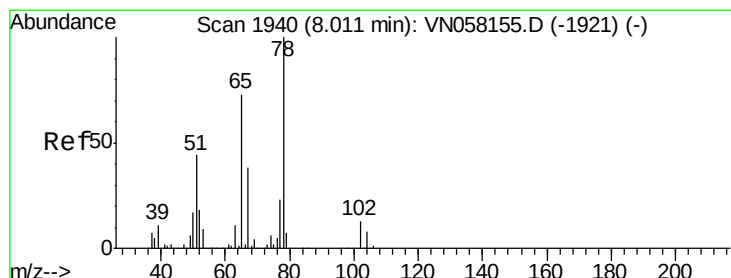
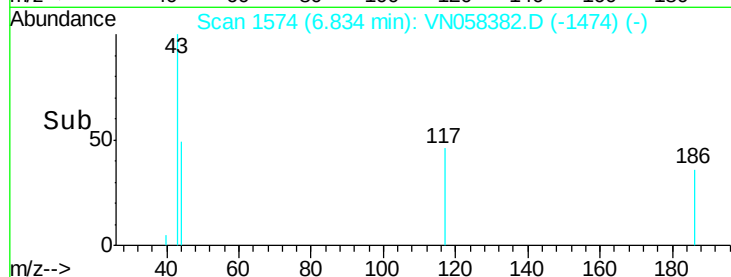
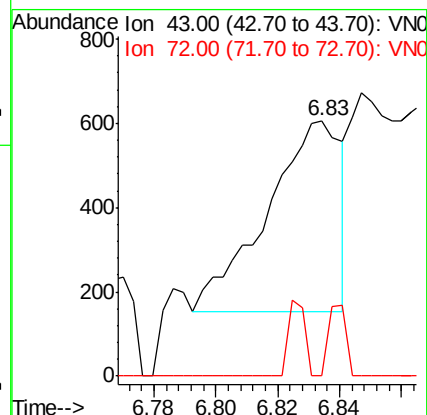
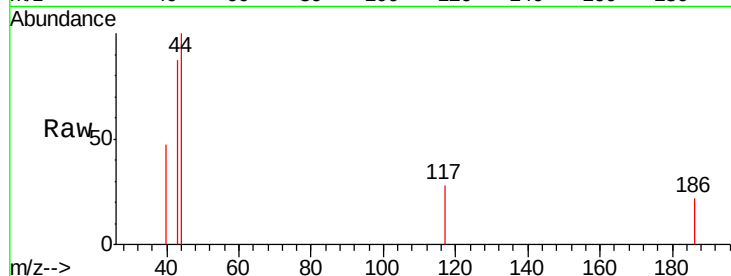
40245-247-248

Tgt Ion: 43 Resp: 756

Ion Ratio Lower Upper

43 100

72 0.0 19.5 29.3#



#33

1,2-Dichloroethane-d4

Concen: 53.489 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058382.D

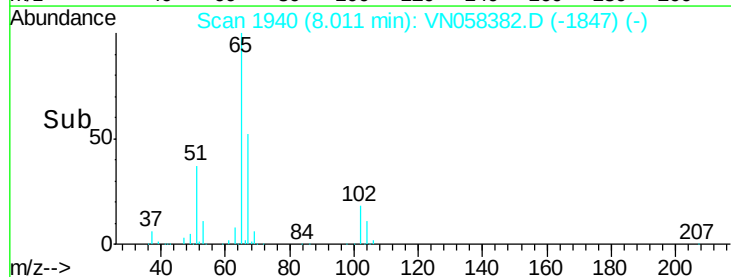
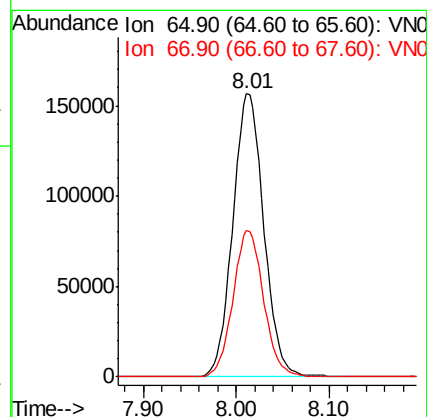
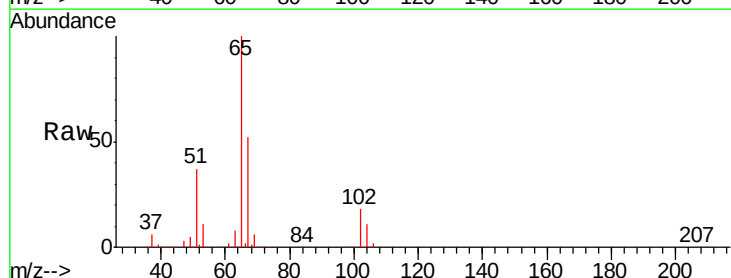
Acq: 26 Sep 2019 13:51

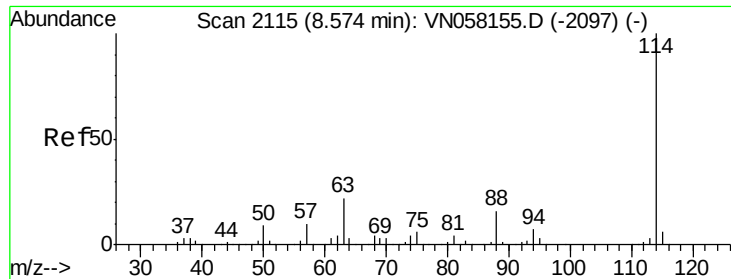
Tgt Ion: 65 Resp: 363017

Ion Ratio Lower Upper

65 100

67 51.1 0.0 103.4

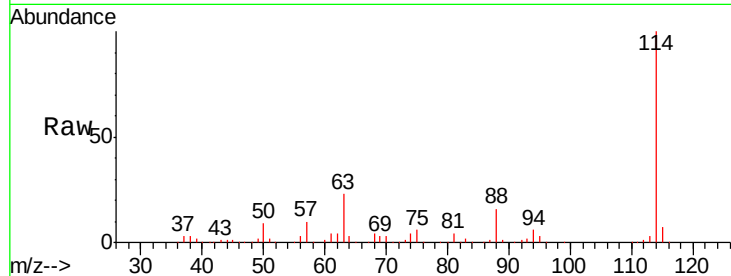




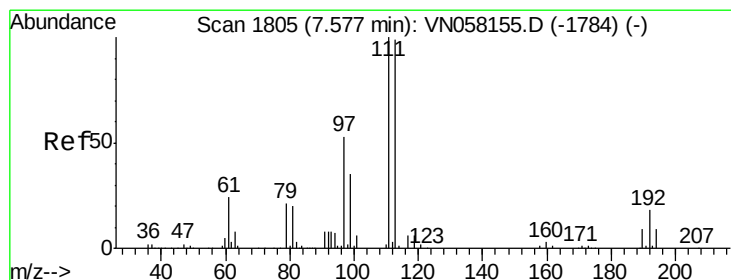
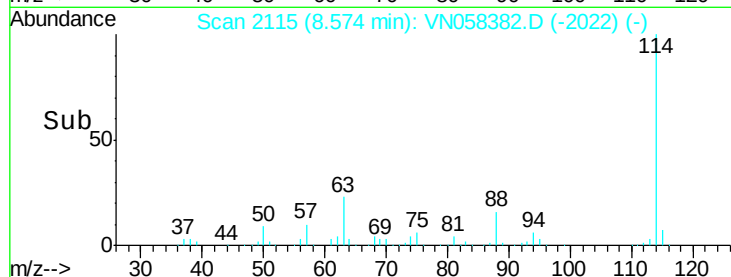
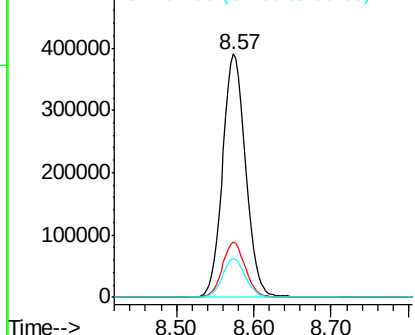
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058382.D
 Acq: 26 Sep 2019 13:51

Instrument :
 MSVOA_N
 ClientSampleId :
 40245-247-248

Tgt Ion:114 Resp: 809504
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 44.2
 88 16.0 0.0 31.6

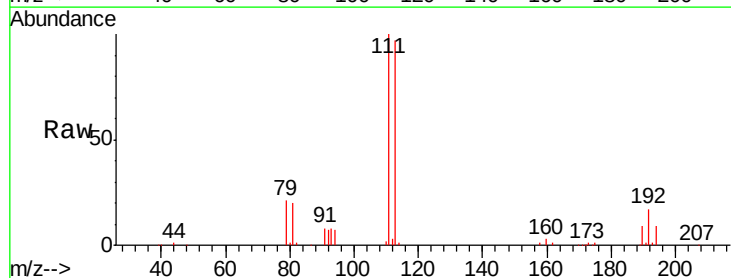


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

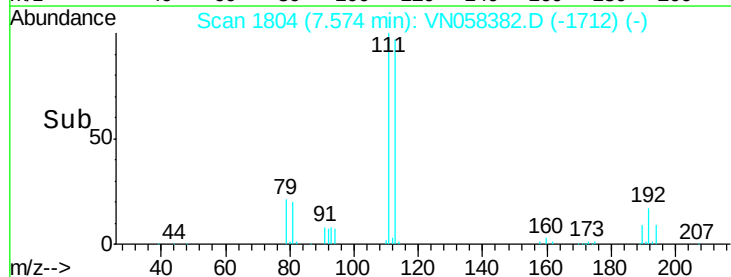
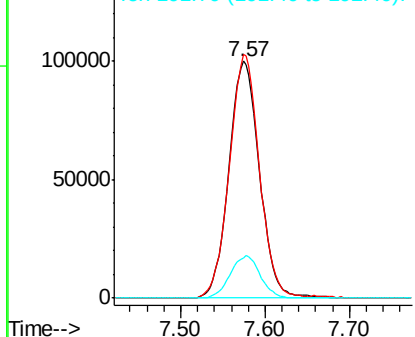


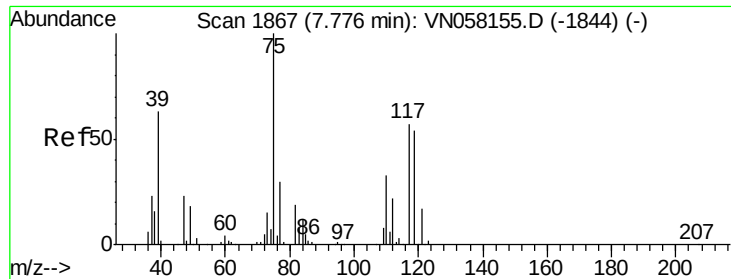
#35
 Dibromofluoromethane
 Concen: 51.228 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058382.D
 Acq: 26 Sep 2019 13:51

Tgt Ion:113 Resp: 252101
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.8 122.6
 192 17.7 14.5 21.7



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

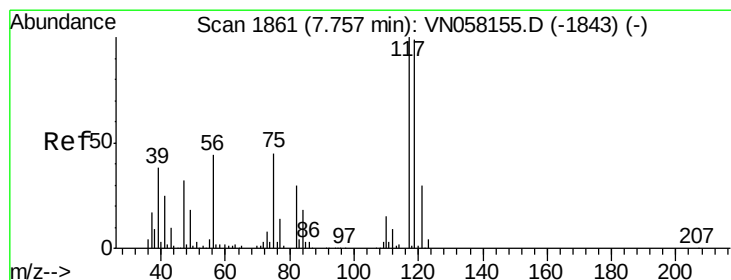
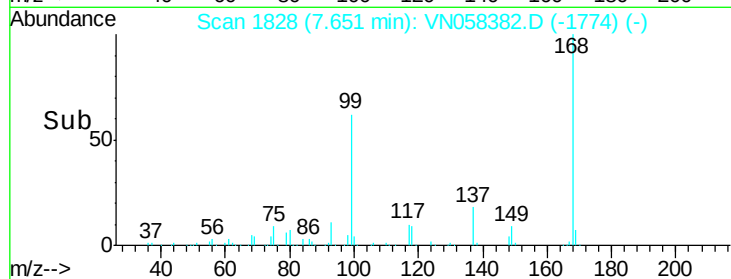
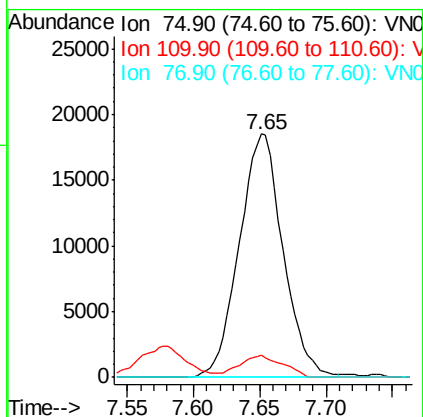
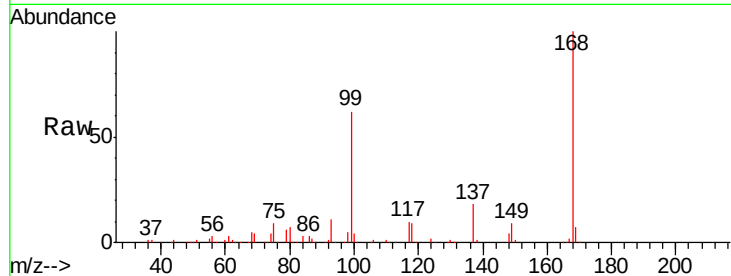




#36
 1,1-Dichloropropene
 Concen: 7.282 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058382.D
 Acq: 26 Sep 2019 13:51

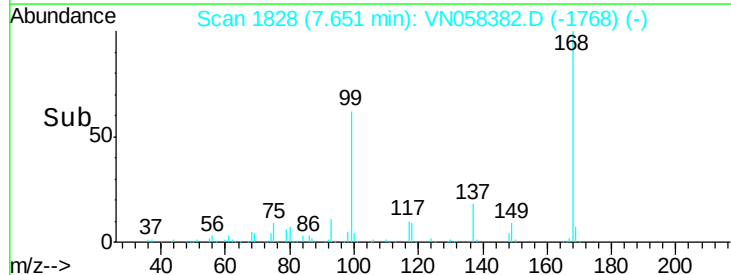
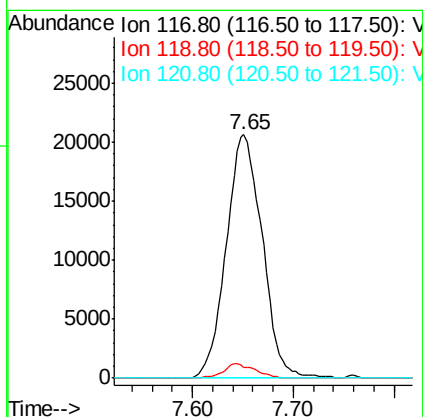
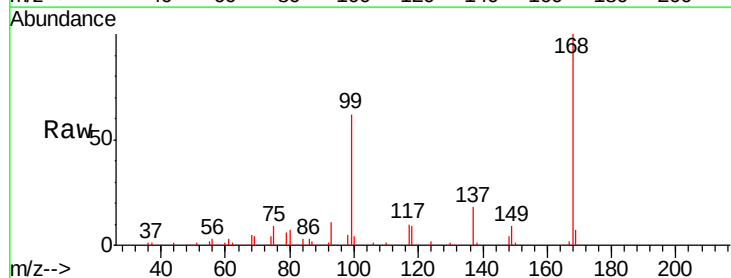
Instrument :
 MSVOA_N
 ClientSampleId :
 40245-247-248

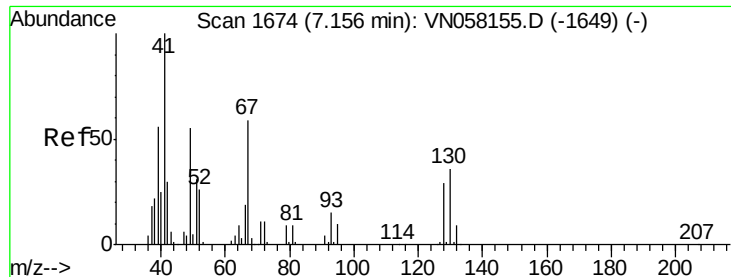
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.720 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058382.D
 Acq: 26 Sep 2019 13:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	78.6	117.8#
121	0.0	24.1	36.1#

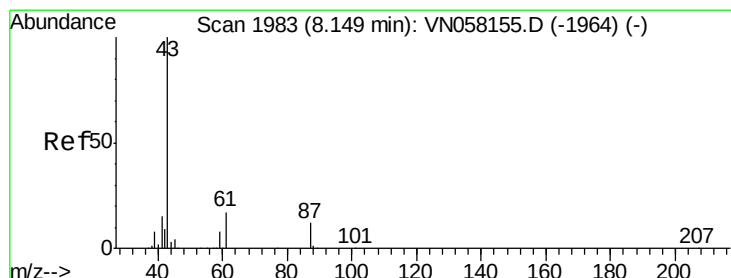
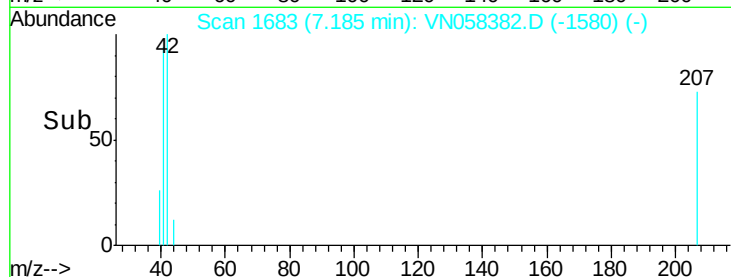
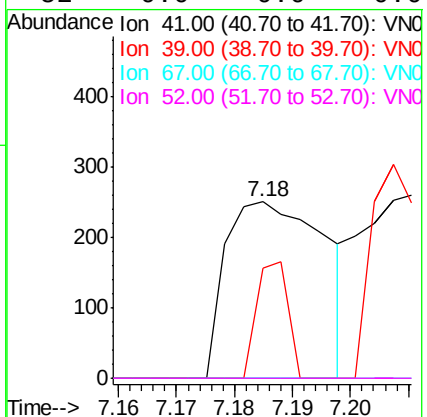
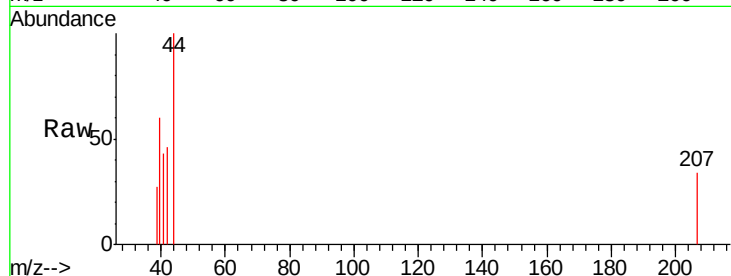




#41
Methacrylonitrile
Concen: 1.006 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.03 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

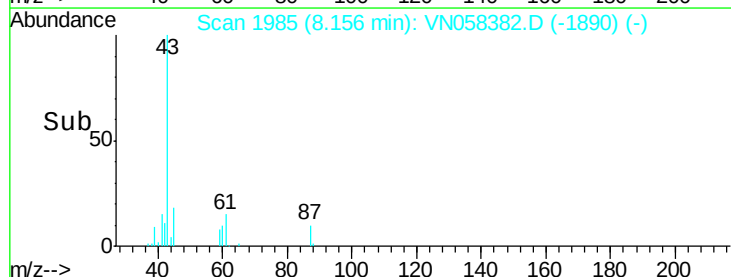
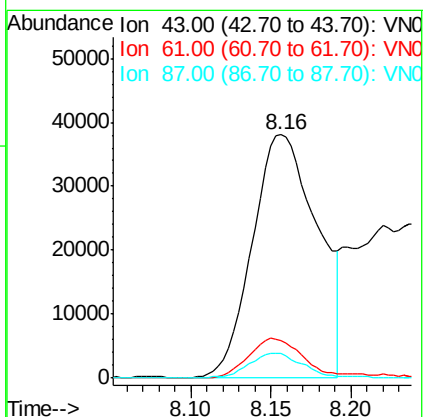
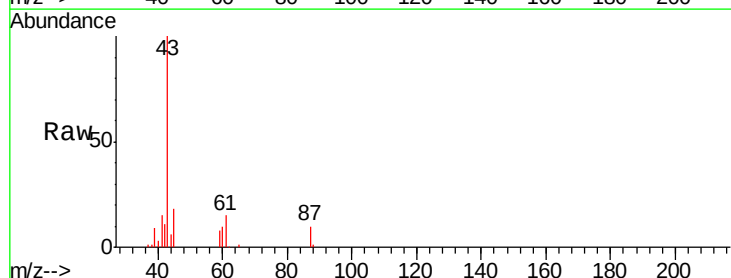
Instrument :
MSVOA_N
ClientSampled :
40245-247-248

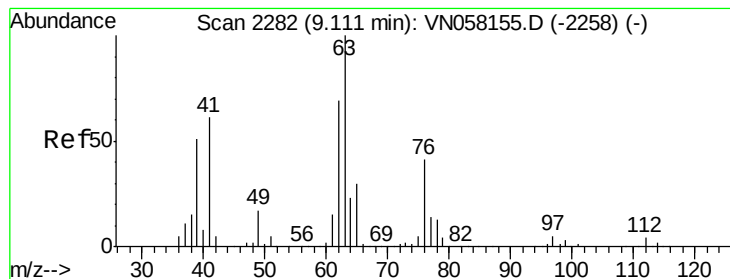
Tgt Ion:	41	Resp:	297
Ion	Ratio	Lower	Upper
41	100		
39	20.9	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 9.516 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.01 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

Tgt Ion:	43	Resp:	107665
Ion	Ratio	Lower	Upper
43	100		
61	13.3	19.7	29.5#
87	8.5	9.4	14.2#





#45

1,2-Dichloropropane

Concen: 0.222 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN058382.D

Acq: 26 Sep 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

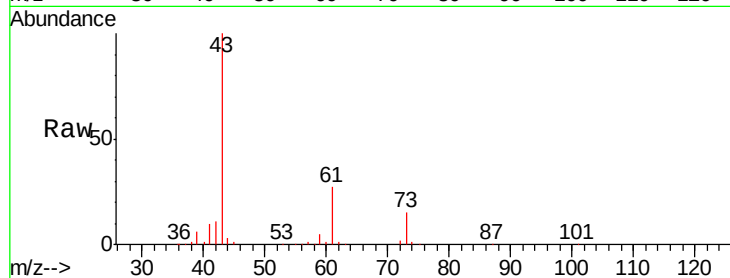
40245-247-248

Tgt Ion: 63 Resp: 1183

Ion Ratio Lower Upper

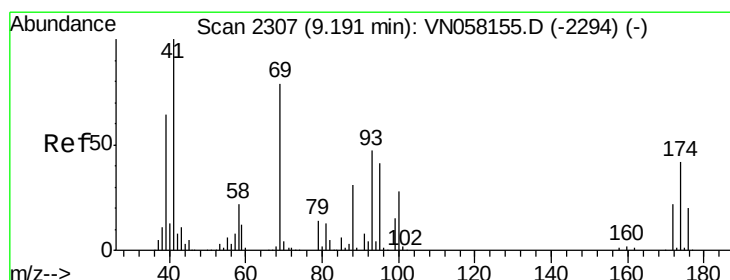
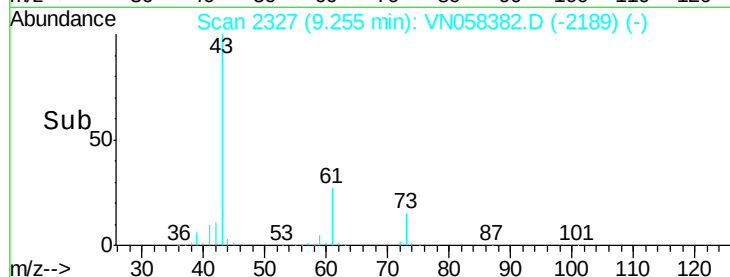
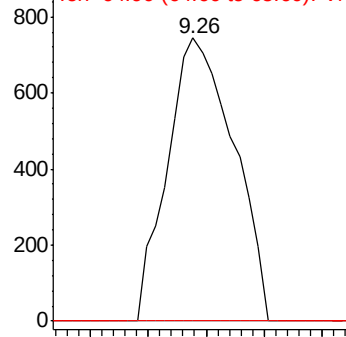
63 100

65 0.0 23.8 35.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.174 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN058382.D

Acq: 26 Sep 2019 13:51

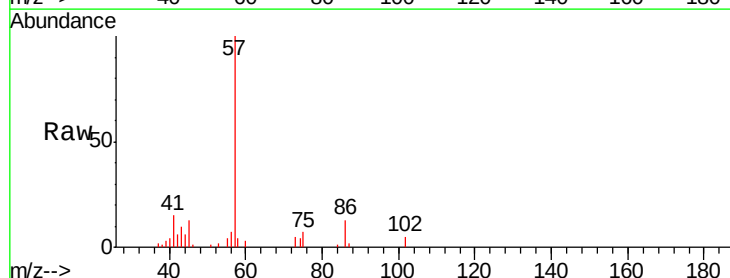
Tgt Ion: 41 Resp: 6029

Ion Ratio Lower Upper

41 100

69 0.0 62.5 93.7#

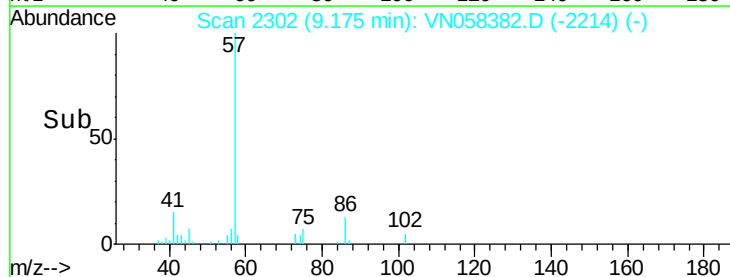
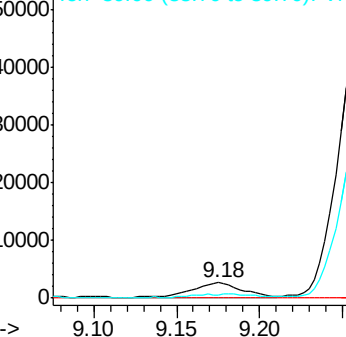
39 0.0 52.3 78.5#

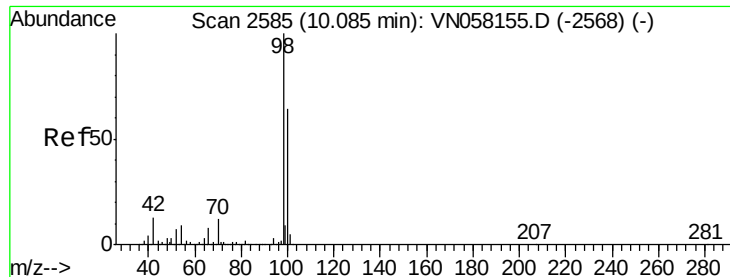


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

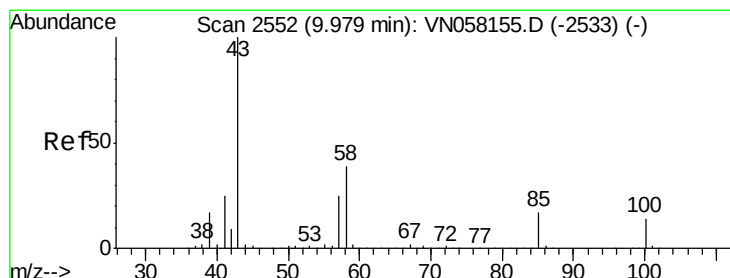
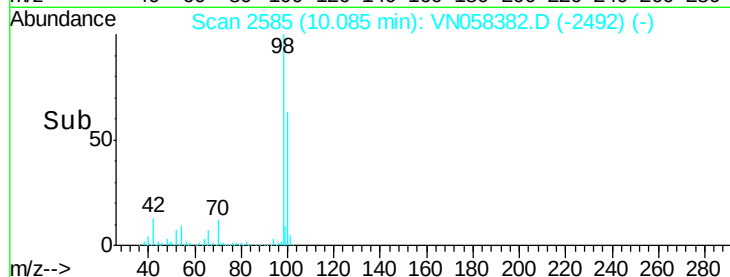
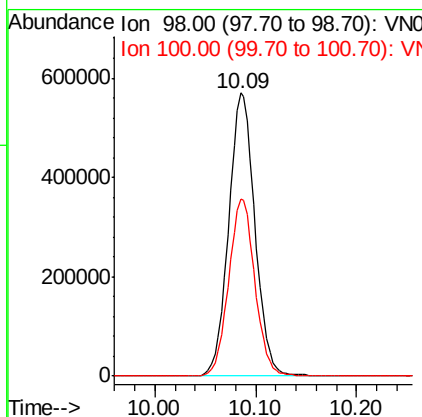
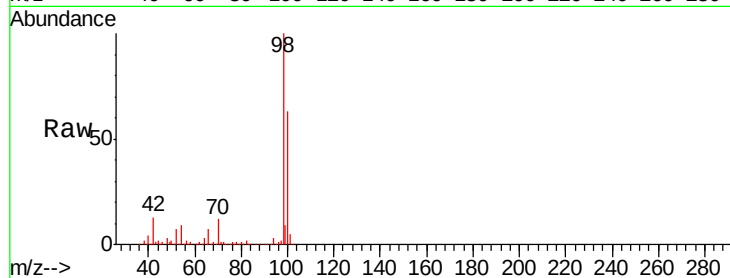




#50
Toluene-d8
Concen: 53.983 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

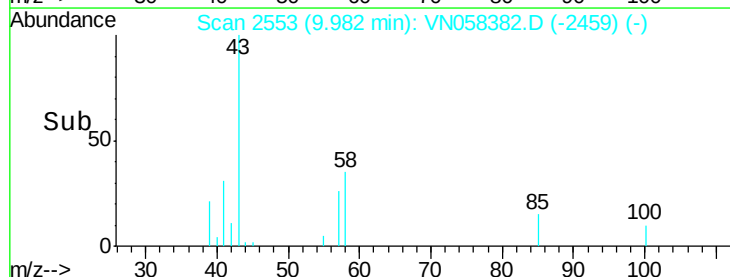
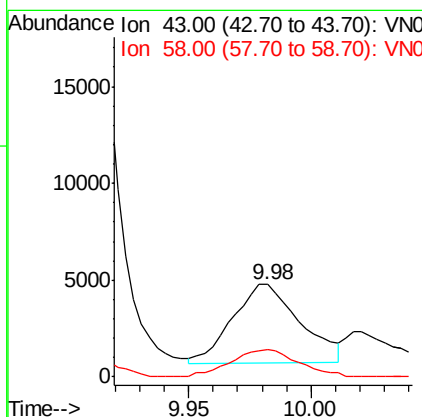
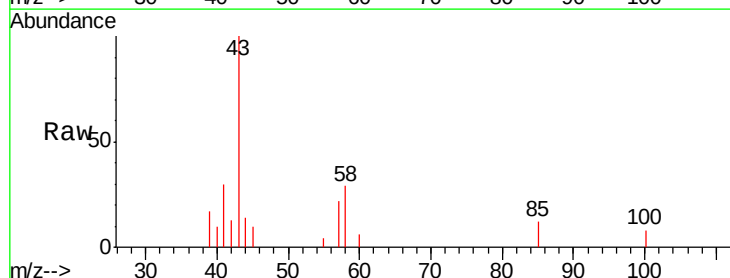
Instrument :
MSVOA_N
ClientSampleId :
40245-247-248

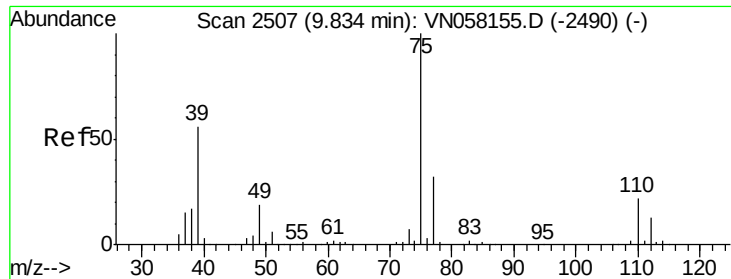
Tgt Ion: 98 Resp: 1035049
Ion Ratio Lower Upper
98 100
100 62.5 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 1.296 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

Tgt Ion: 43 Resp: 7791
Ion Ratio Lower Upper
43 100
58 34.3 30.2 45.4





#54

cis-1,3-Dichloropropene

Concen: 4.981 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058382.D

Acq: 26 Sep 2019 13:51

Instrument :

MSVOA_N

ClientSampled :

40245-247-248

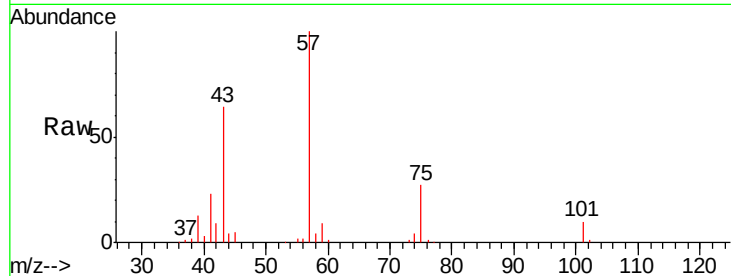
Tgt Ion: 75 Resp: 38207

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

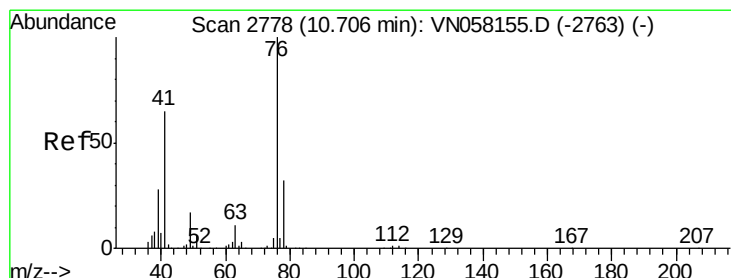
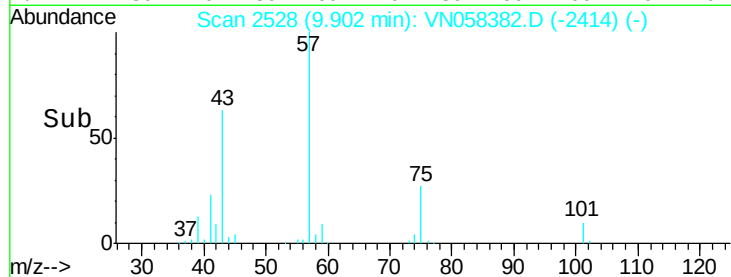
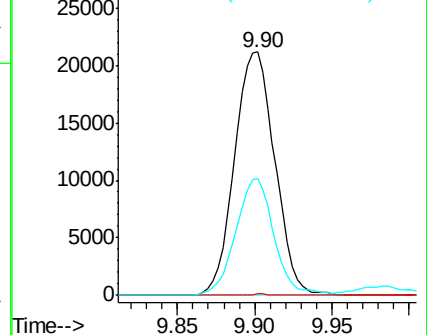
39 47.8 45.0 67.6



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: 0.427 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058382.D

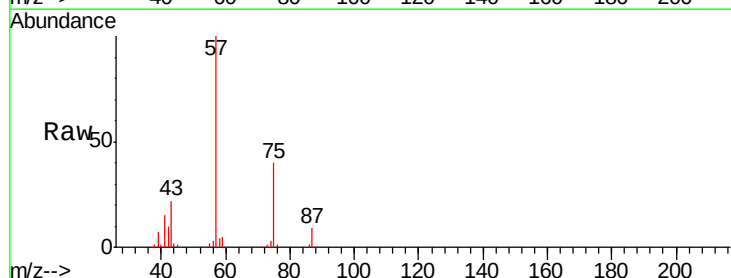
Acq: 26 Sep 2019 13:51

Tgt Ion: 76 Resp: 3643

Ion Ratio Lower Upper

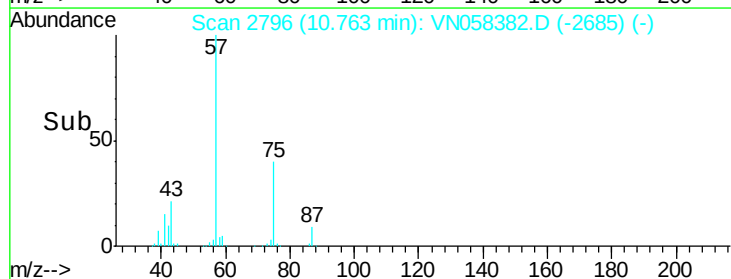
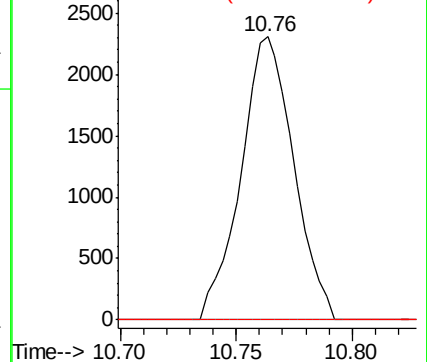
76 100

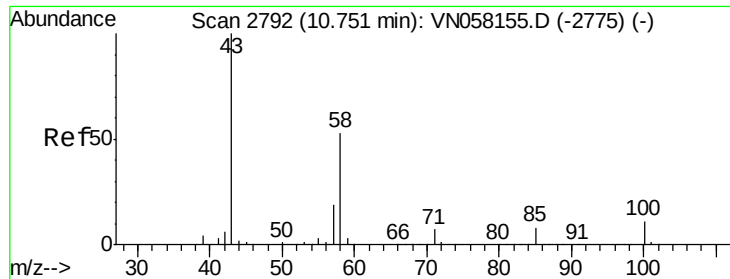
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

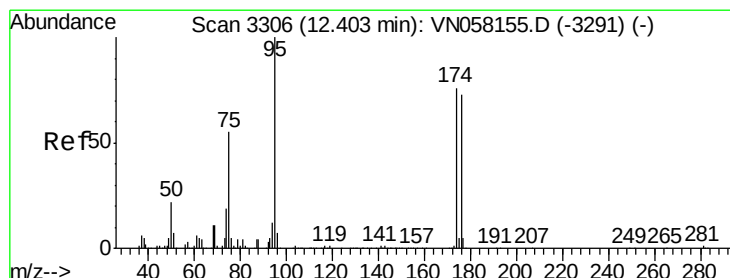
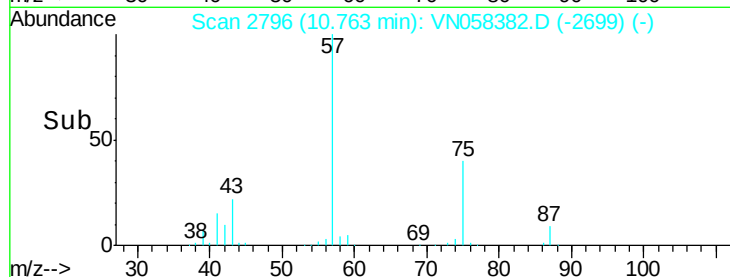
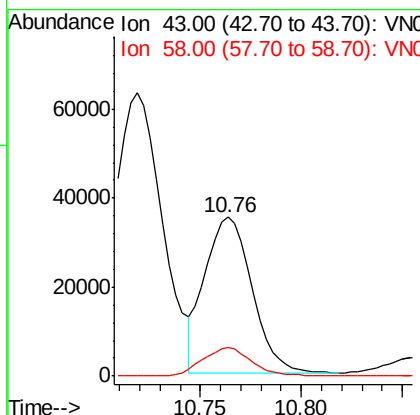
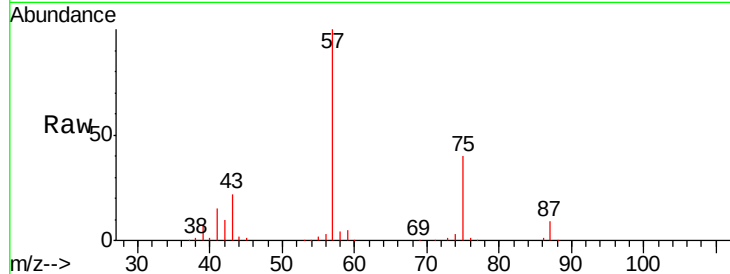




#59
2-Hexanone
Concen: 12.778 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

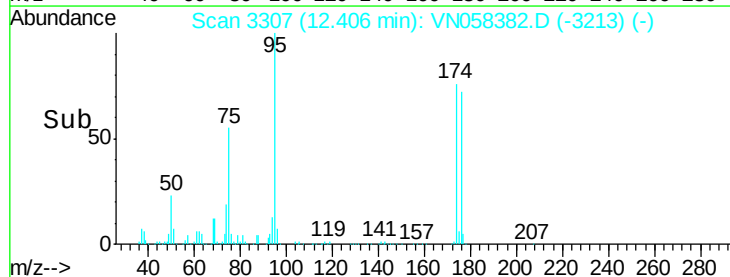
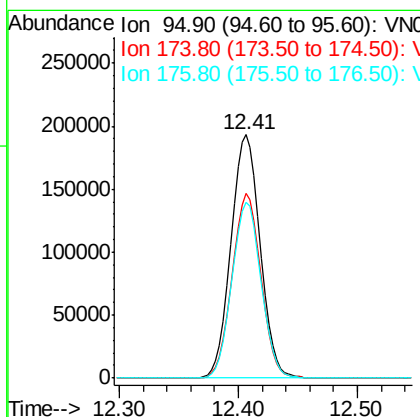
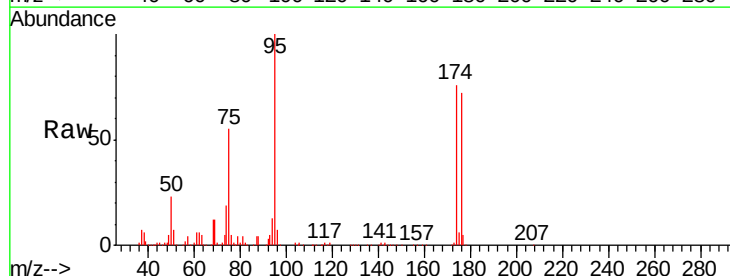
Instrument :
MSVOA_N
ClientSampled :
40245-247-248

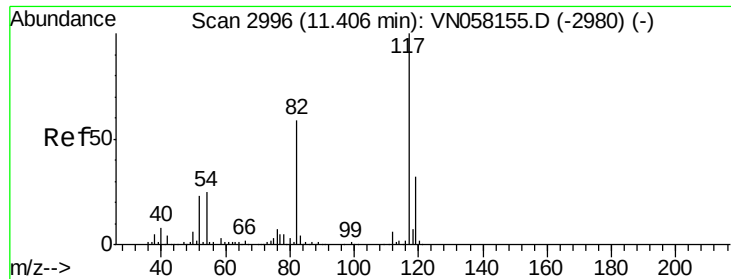
Tgt Ion: 43 Resp: 57032
Ion Ratio Lower Upper
43 100
58 19.1 26.0 78.0#



#62
4-Bromofluorobenzene
Concen: 46.119 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

Tgt Ion: 95 Resp: 328471
Ion Ratio Lower Upper
95 100
174 74.9 0.0 152.2
176 72.5 0.0 148.0

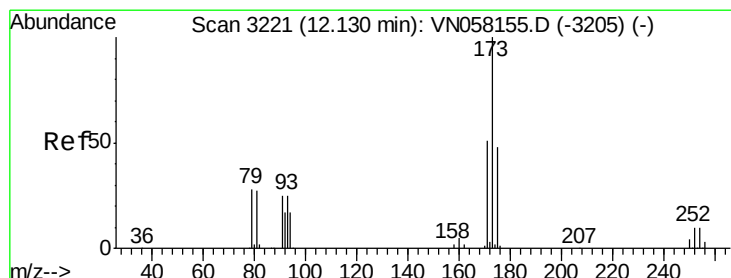
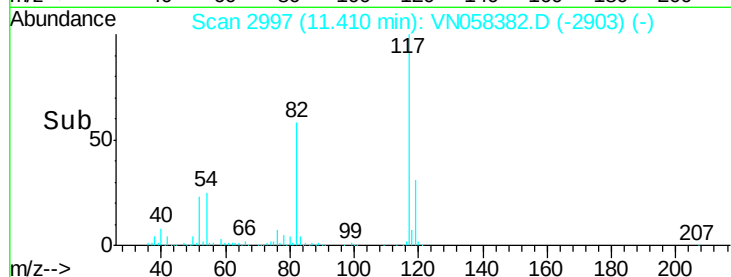
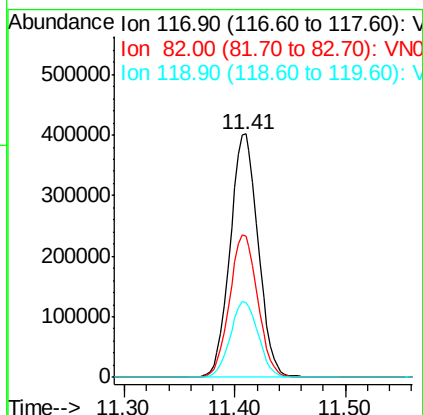
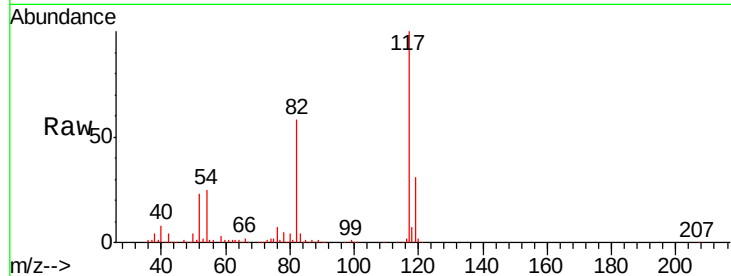




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

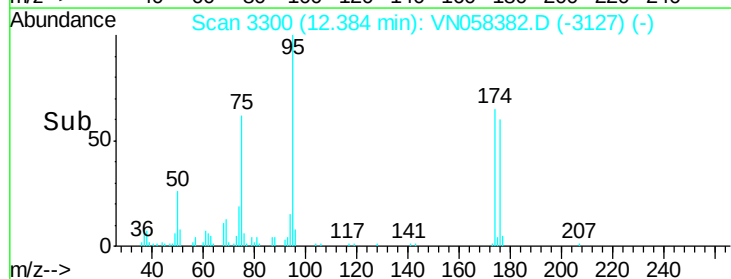
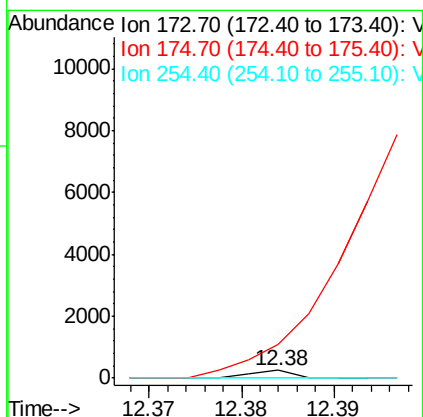
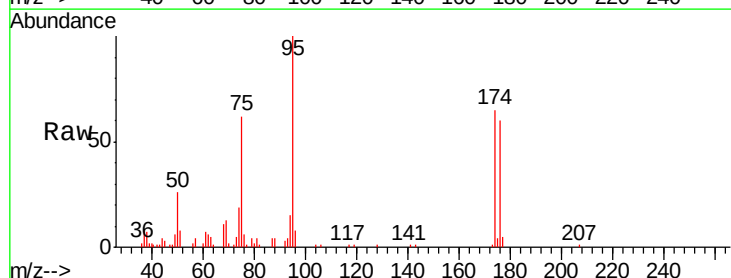
Instrument :
MSVOA_N
ClientSampleId :
40245-247-248

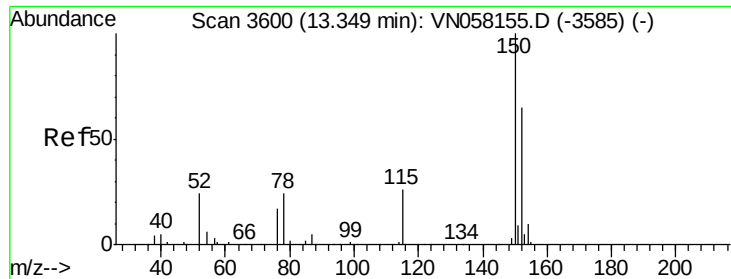
Tgt Ion:117 Resp: 708001
Ion Ratio Lower Upper
117 100
82 57.9 46.9 70.3
119 30.9 25.3 37.9



#71
Bromoform
Concen: 3.617 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.25 min
Lab File: VN058382.D
Acq: 26 Sep 2019 13:51

Tgt Ion:173 Resp: 78
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058382.D

Acq: 26 Sep 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

40245-247-248

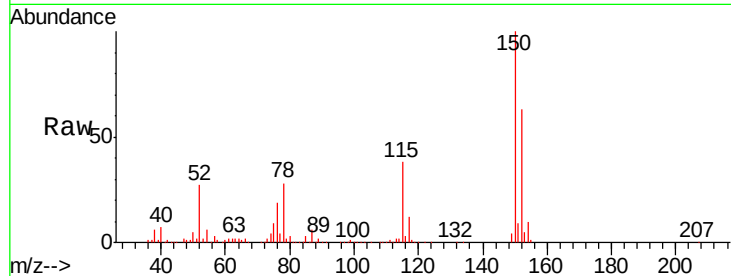
Tgt Ion: 152 Resp: 287256

Ion Ratio Lower Upper

152 100

115 61.1 30.1 90.3

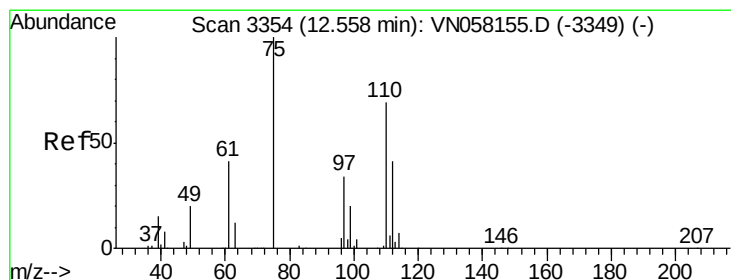
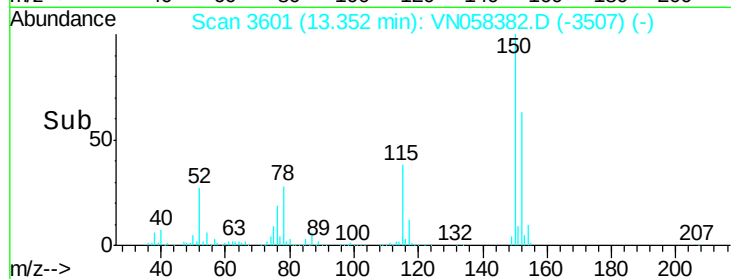
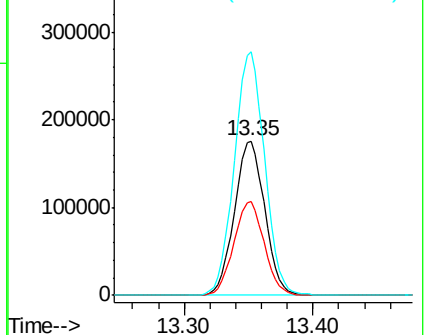
150 158.2 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 35.514 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058382.D

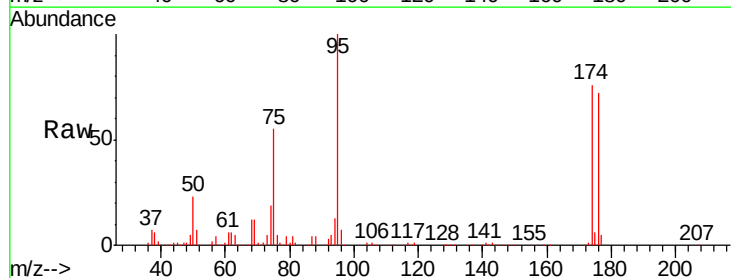
Acq: 26 Sep 2019 13:51

Tgt Ion: 75 Resp: 182577

Ion Ratio Lower Upper

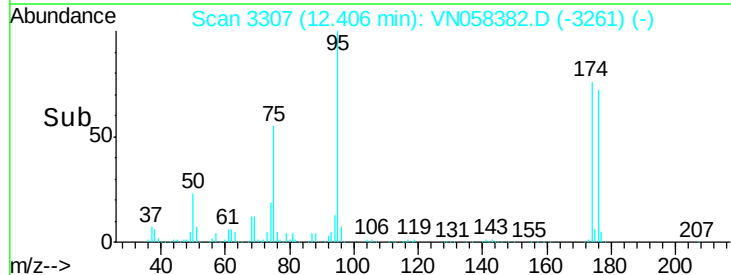
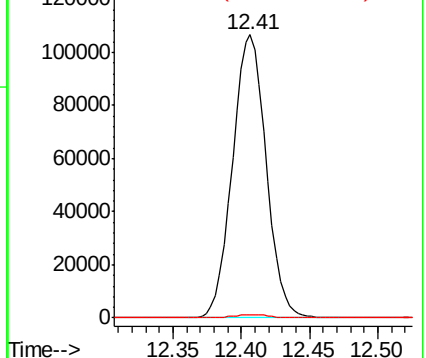
75 100

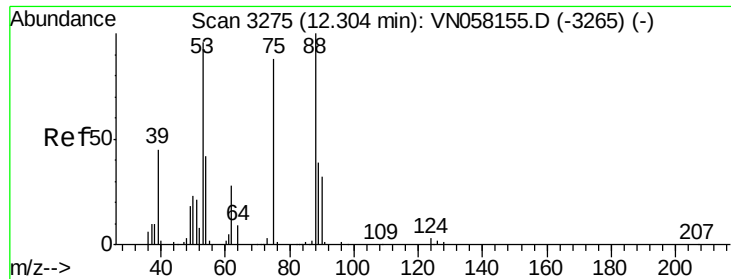
77 1.3 0.0 0.0#



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: 99.260 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058382.D

Acq: 26 Sep 2019 13:51

Instrument :

MSVOA_N

ClientSampleId :

40245-247-248

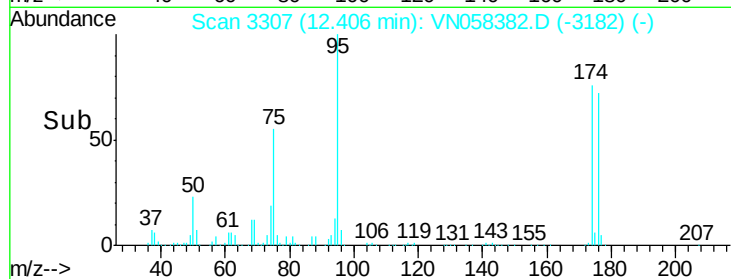
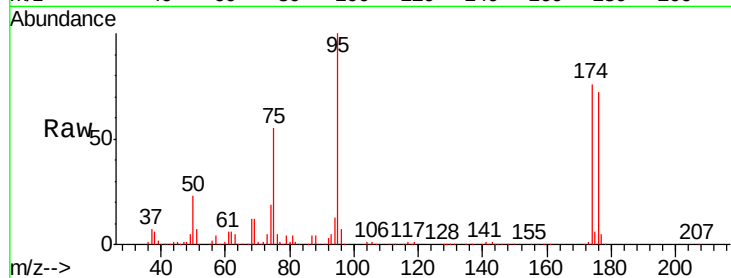
Tgt Ion: 75 Resp: 182577

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



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

