

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058316.D
 Acq On : 24 Sep 2019 00:46
 Operator : JC/SP
 Sample : K5002-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0517

Quant Time: Sep 24 01:40:16 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	460577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	768132	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	656678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	257556	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	355860	55.47	ug/l	0.00
Spiked Amount			Recovery	=	110.94%	
35) Dibromofluoromethane	7.58	113	240928	51.59	ug/l	0.00
Spiked Amount			Recovery	=	103.18%	
50) Toluene-d8	10.08	98	966643	53.13	ug/l	0.00
Spiked Amount			Recovery	=	106.26%	
62) 4-Bromofluorobenzene	12.41	95	304821	45.10	ug/l	0.00
Spiked Amount			Recovery	=	90.20%	

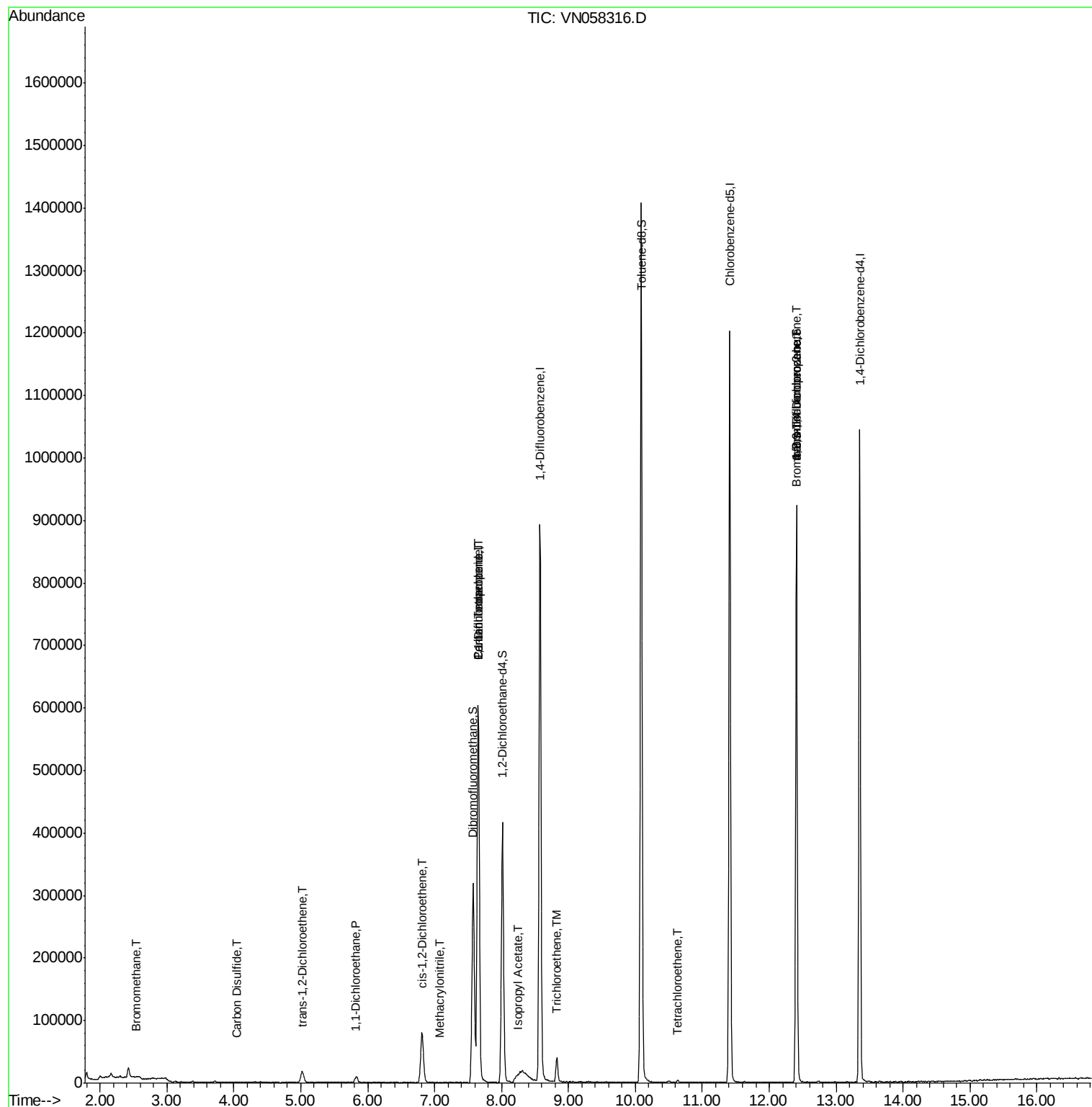
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	195	Below Cal	#	36
5) Bromomethane	2.54	94	176	0.825	ug/l #	4
6) Chloroethane	2.68	64	64	Below Cal	#	44
12) 1,1-Dichloroethene	3.72	96	613	Below Cal	#	74
17) Carbon Disulfide	4.04	76	91	0.294	ug/l #	74
20) Methylene Chloride	4.53	84	65	Below Cal	#	48
21) trans-1,2-Dichloroethene	5.01	96	6322	1.663	ug/l	90
24) 1,1-Dichloroethane	5.83	63	14803	1.792	ug/l #	97
27) cis-1,2-Dichloroethene	6.82	96	50967	10.912	ug/l	87
31) Cyclohexane	7.65	56	11937	Below Cal	#	13
36) 1,1-Dichloropropene	7.65	75	40716	7.350	ug/l #	51
38) Carbon Tetrachloride	7.65	117	48491	8.708	ug/l #	16
41) Methacrylonitrile	7.08	41	62	0.932	ug/l #	100
43) Isopropyl Acetate	8.25	43	16521	1.539	ug/l #	57
44) Trichloroethene	8.83	130	13144	3.175	ug/l	99
64) Tetrachloroethene	10.63	164	971	0.303	ug/l #	65
71) Bromoform	12.39	173	169	3.646	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	167844	36.413	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	167844	101.627	ug/l #	5

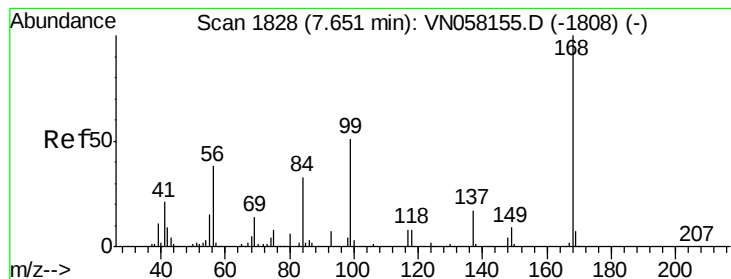
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092319\
Data File : VN058316.D
Acq On : 24 Sep 2019 00:46
Operator : JC/SP
Sample : K5002-05
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
S49-0517

Quant Time: Sep 24 01:40:16 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

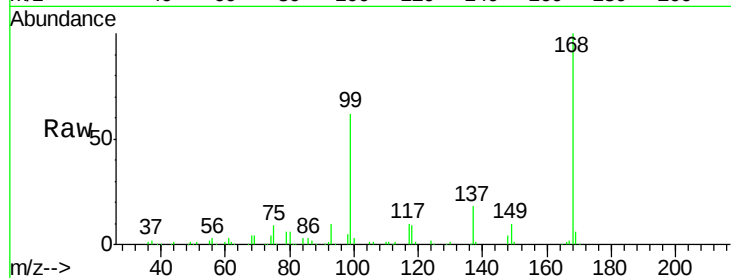
S49-0517

Tot Ion:168 Resp: 460577

Ion Ratio Lower Upper

168 100

99 61.9 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

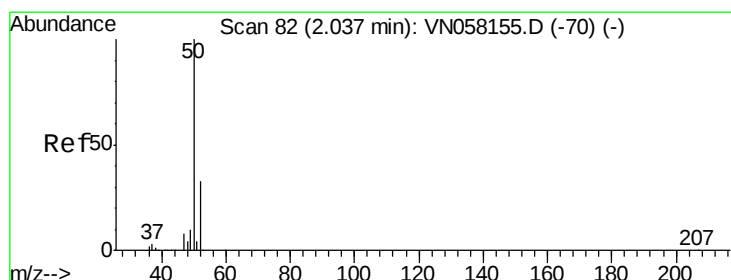
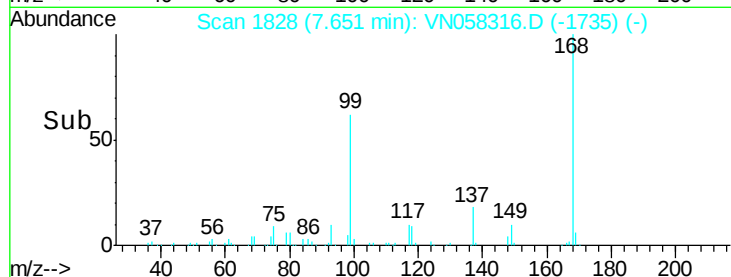
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058316.D

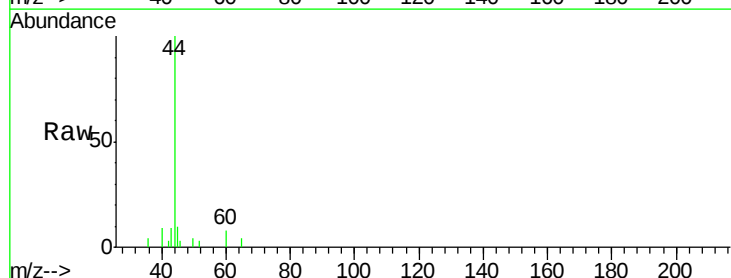
Acq: 24 Sep 2019 00:46

Tgt Ion: 50 Resp: 195

Ion Ratio Lower Upper

50 100

52 69.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

250

200

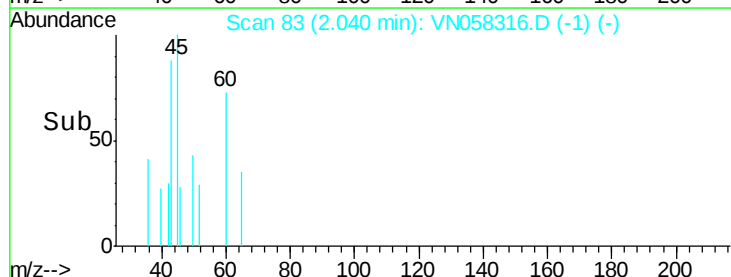
150

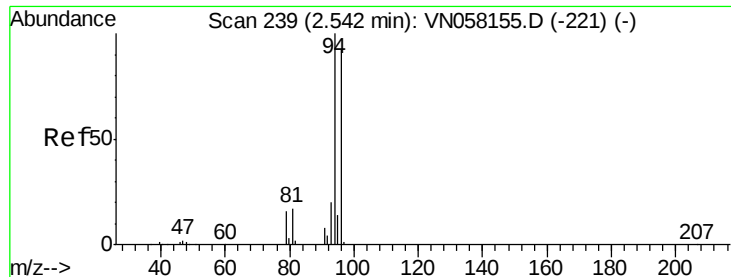
100

50

0

Time-->





#5

Bromomethane

Concen: 0.825 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

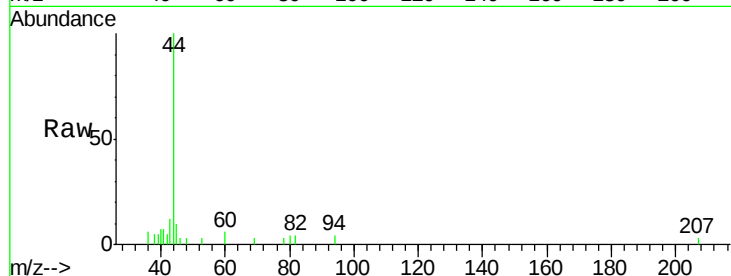
S49-0517

Tot Ion: 94 Resp: 176

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

2.54

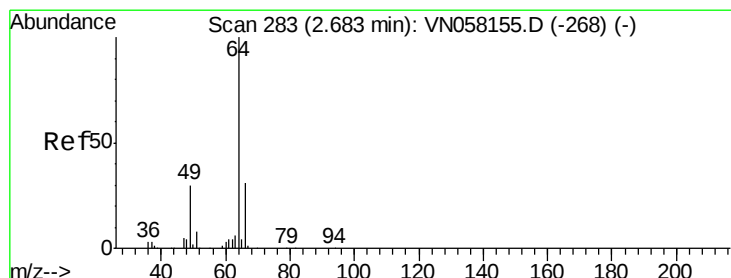
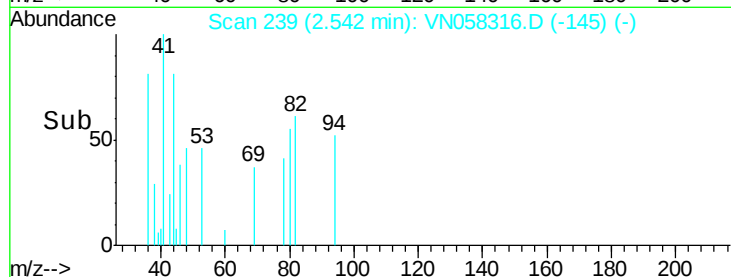
2.54

2.54

2.54

2.54

2.54



#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 281

Delta R.T. -0.01 min

Lab File: VN058316.D

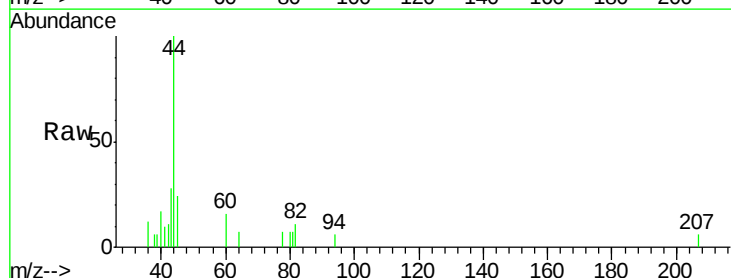
Acq: 24 Sep 2019 00:46

Tgt Ion: 64 Resp: 64

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

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

2.68

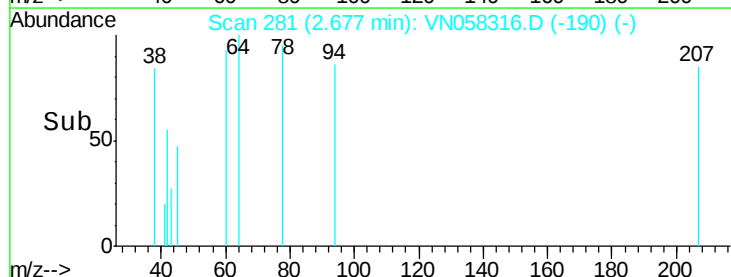
2.68

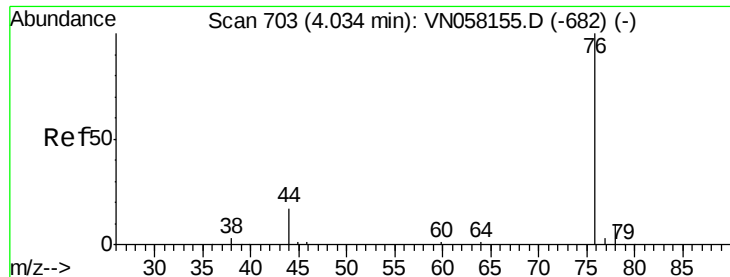
2.68

2.68

2.68

2.68





#17

Carbon Disulfide

Concen: 0.294 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

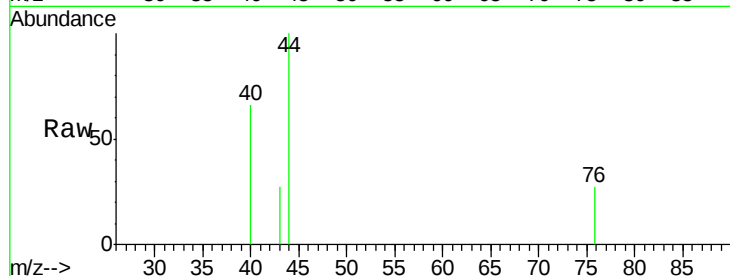
S49-0517

Tot Ion: 76 Resp: 91

Ion Ratio Lower Upper

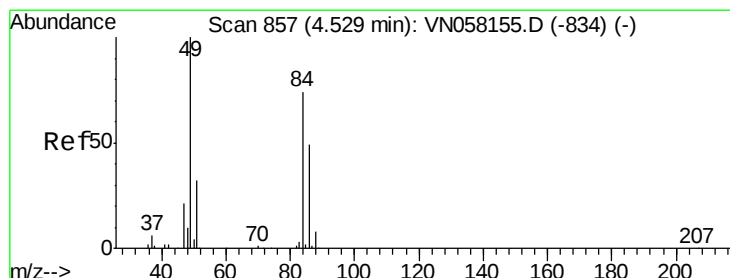
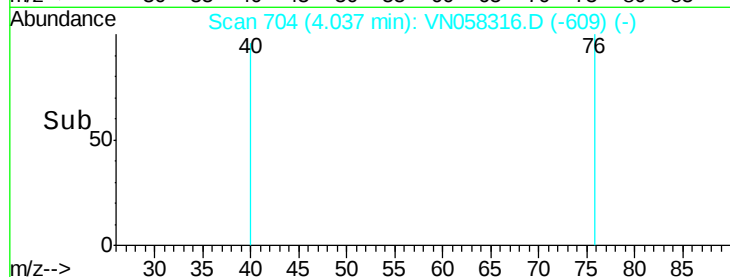
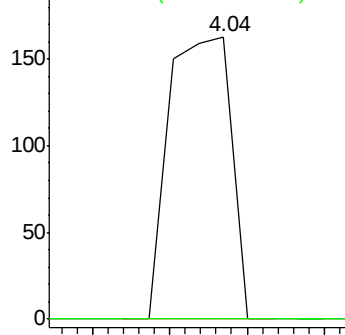
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.53 min Scan# 857

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Tgt Ion: 84 Resp: 65

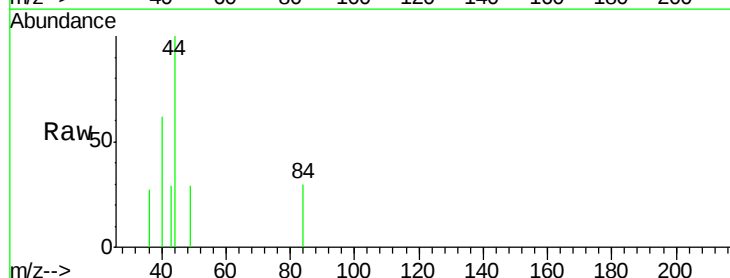
Ion Ratio Lower Upper

84 100

49 96.1 107.5 161.3#

51 0.0 33.9 50.9#

86 0.0 52.4 78.6#

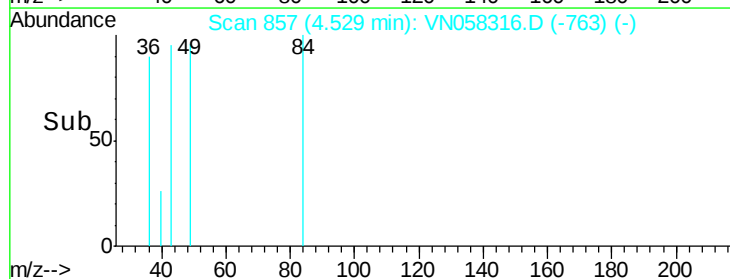
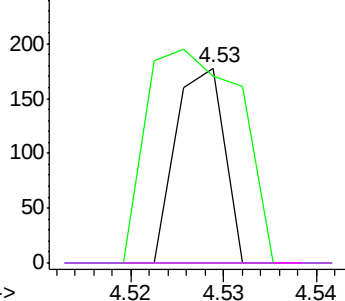


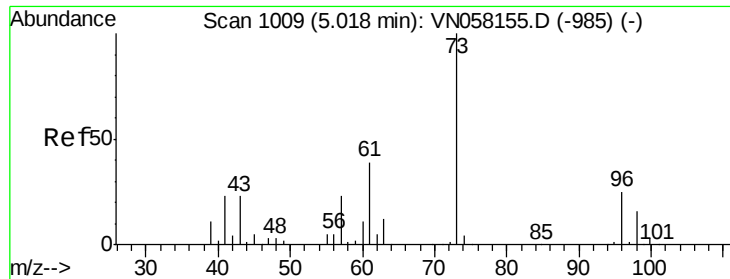
Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

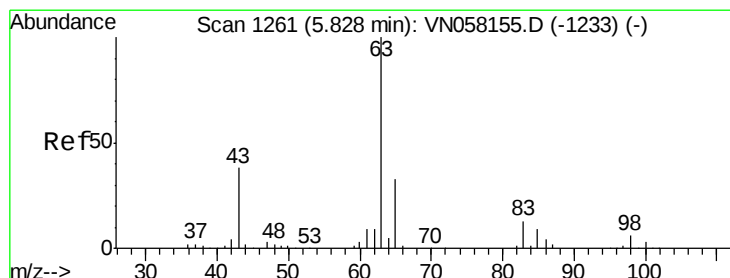
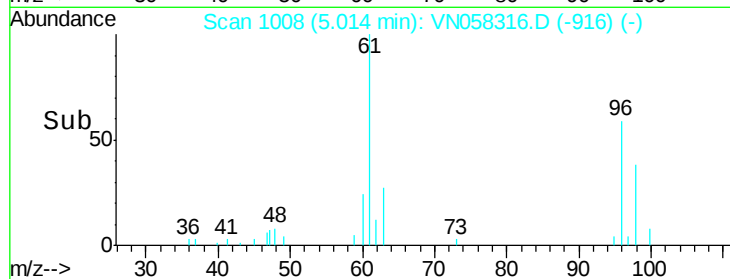
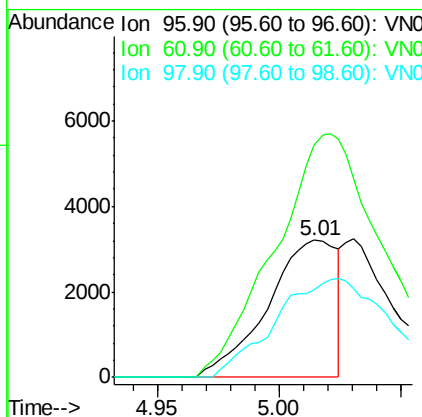
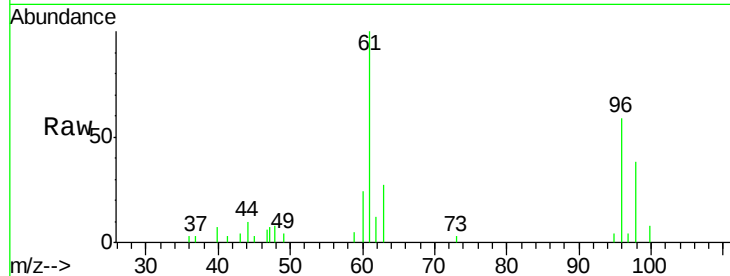




#21
trans-1,2-Dichloroethene
Concen: 1.663 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN058316.D
Acq: 24 Sep 2019 00:46

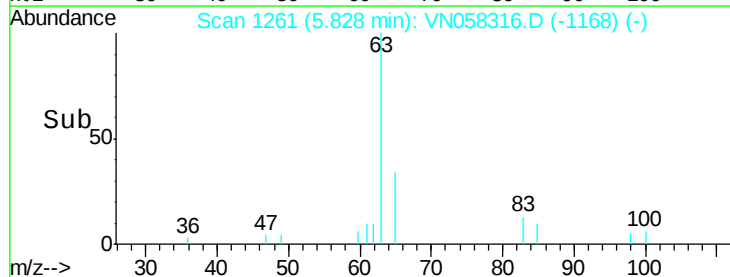
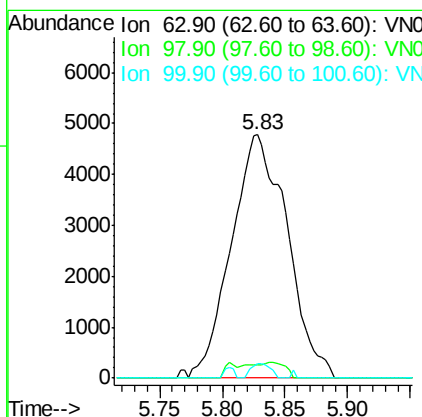
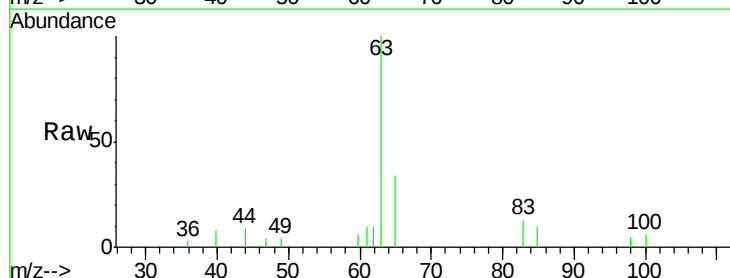
Instrument :
MSVOA_N
ClientSampled :
S49-0517

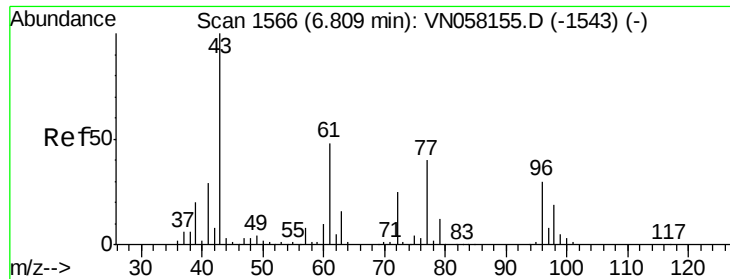
Tot Ion: 96 Resp: 6322
Ion Ratio Lower Upper
96 100
61 169.6 122.2 183.4
98 63.9 49.9 74.9



#24
1,1-Dichloroethane
Concen: 1.792 ug/l
RT: 5.83 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VN058316.D
Acq: 24 Sep 2019 00:46

Tgt Ion: 63 Resp: 14803
Ion Ratio Lower Upper
63 100
98 5.5 2.9 8.6
100 5.7 1.8 5.3#





#27

cis-1,2-Dichloroethene

Concen: 10.912 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

S49-0517

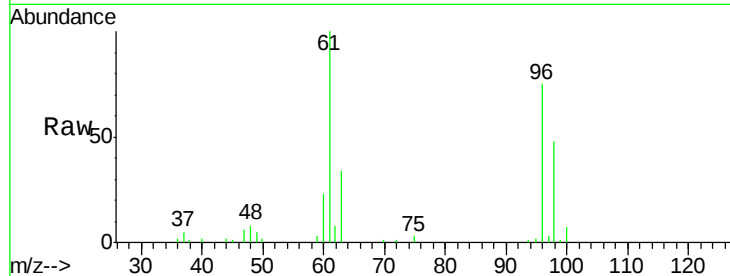
Tot Ion: 96 Resp: 50967

Ion Ratio Lower Upper

96 100

61 135.7 0.0 319.0

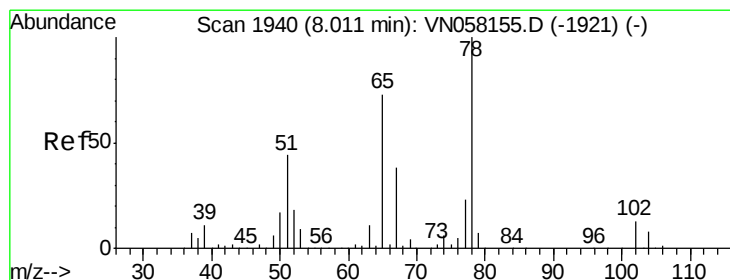
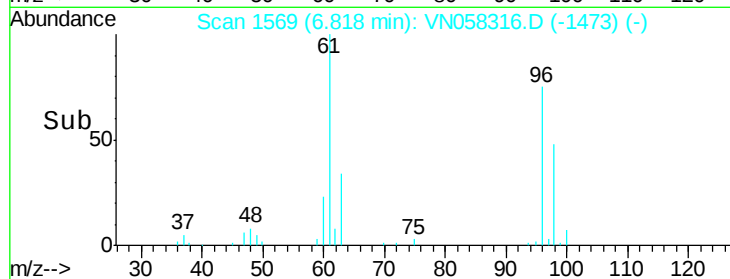
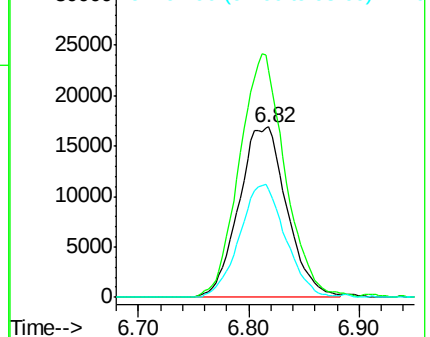
98 63.2 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.474 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058316.D

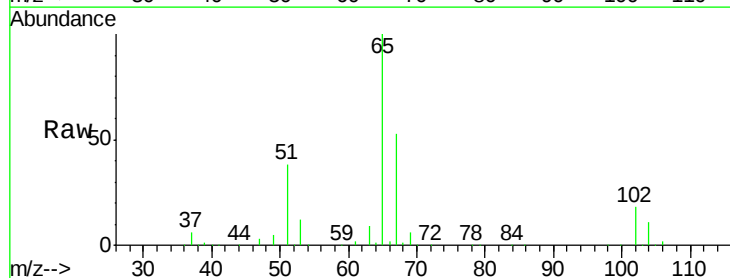
Acq: 24 Sep 2019 00:46

Tgt Ion: 65 Resp: 355860

Ion Ratio Lower Upper

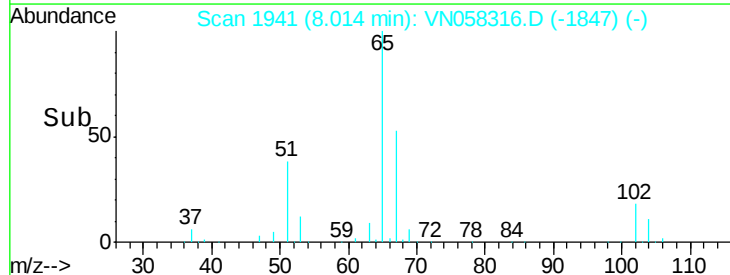
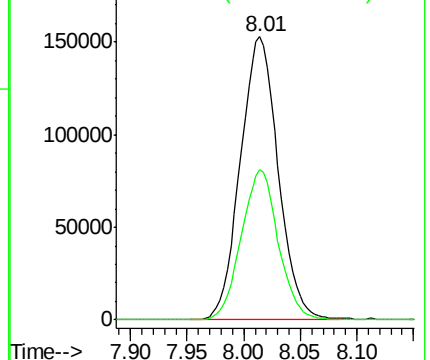
65 100

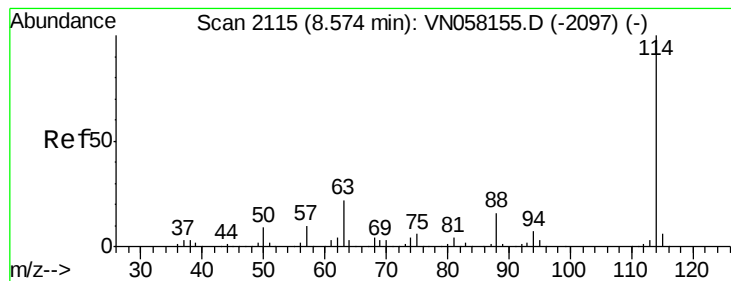
67 51.8 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

S49-0517

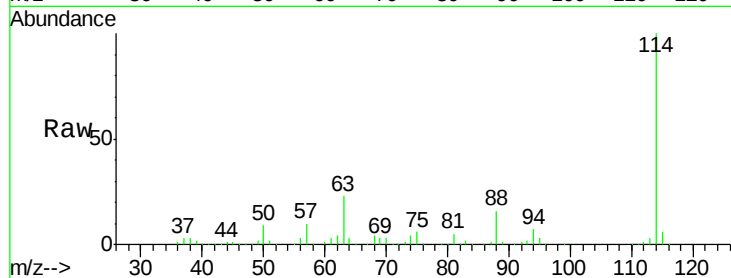
Tot Ion:114 Resp: 768132

Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.2

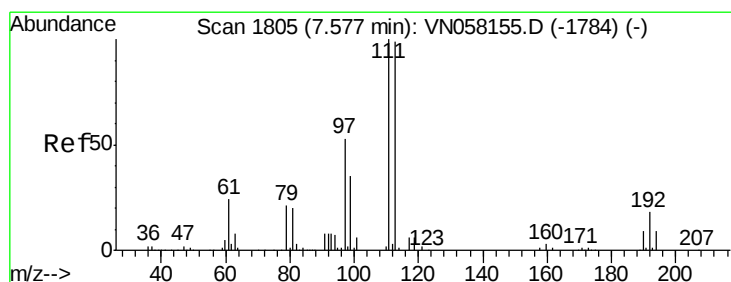
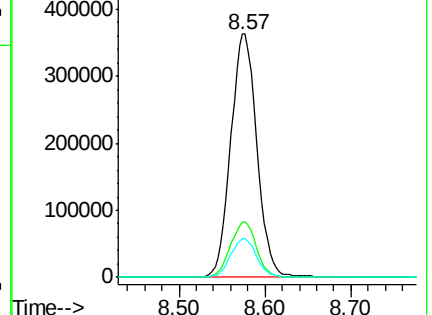
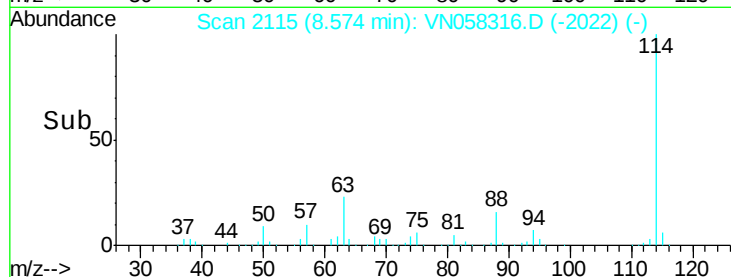
88 16.0 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 51.595 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

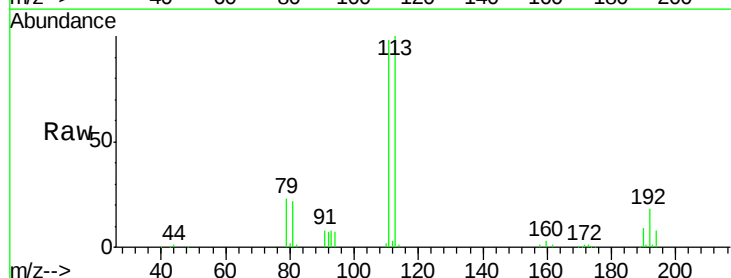
Tgt Ion:113 Resp: 240928

Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.6

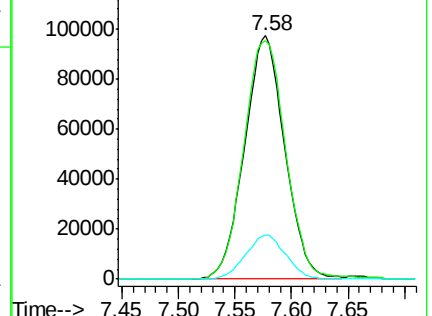
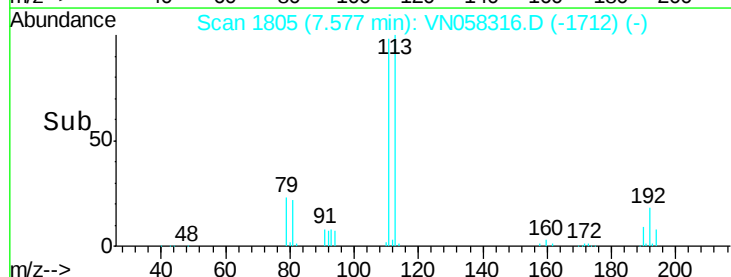
192 18.0 14.5 21.7

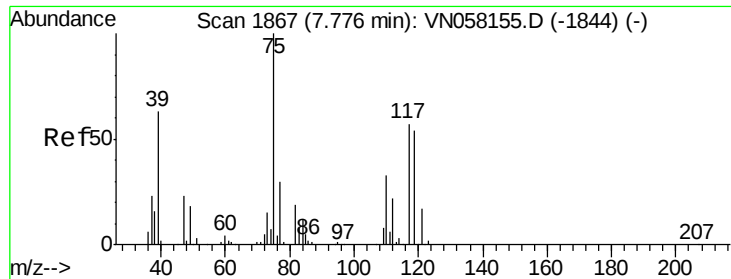


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

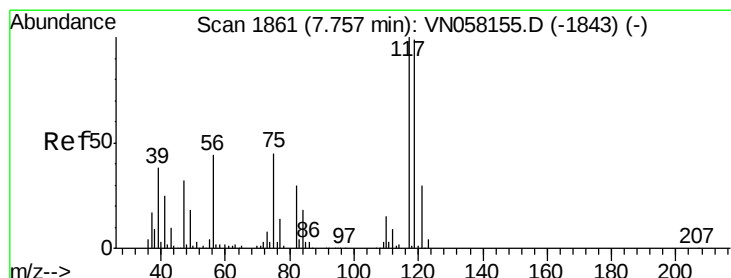
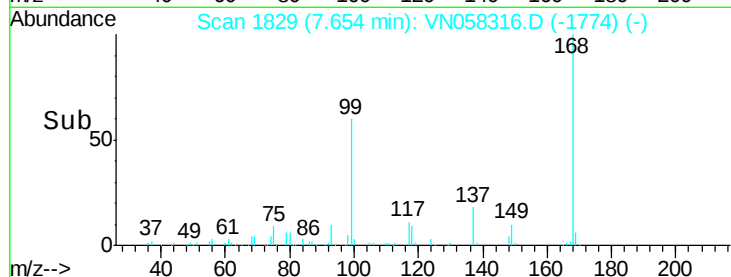
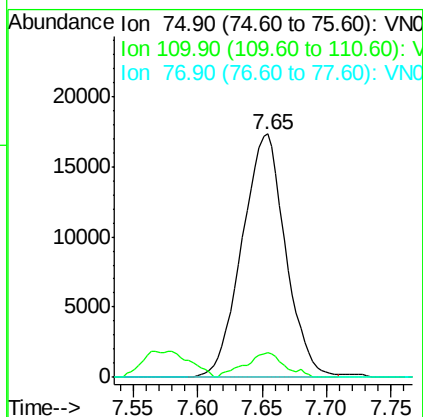
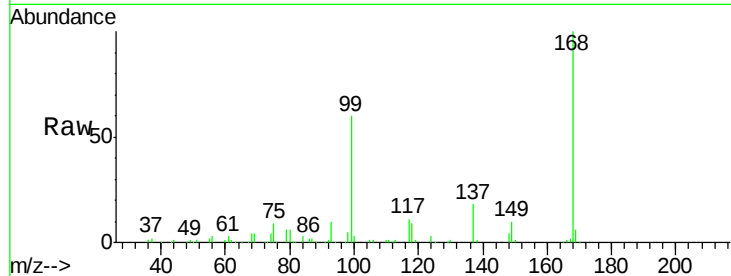




#36
 1,1-Dichloropropene
 Concen: 7.350 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058316.D
 Acq: 24 Sep 2019 00:46

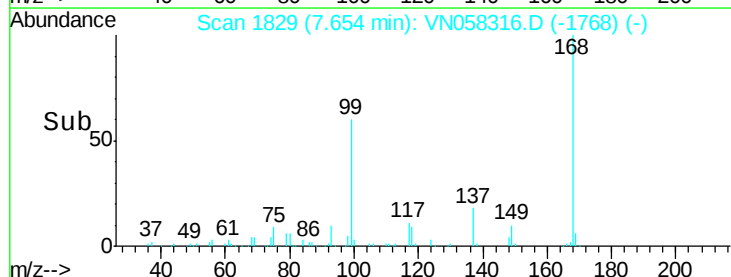
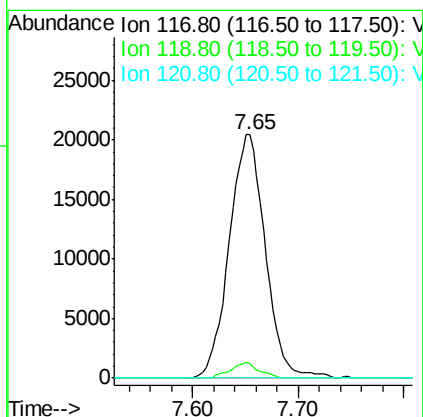
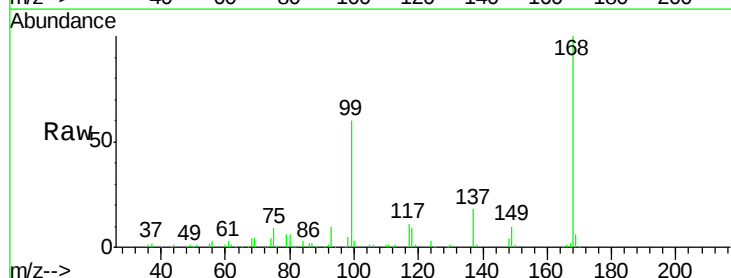
Instrument :
 MSVOA_N
 ClientSampled :
 S49-0517

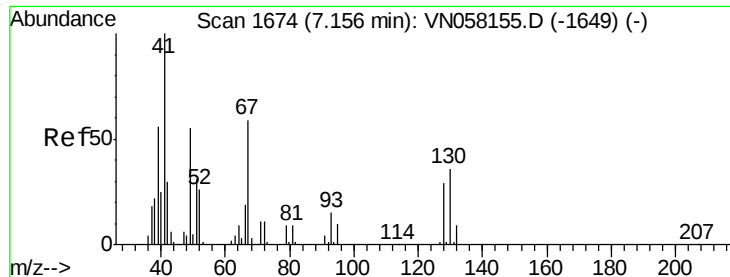
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.708 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN058316.D
 Acq: 24 Sep 2019 00:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	78.6	117.8#
121	0.0	24.1	36.1#

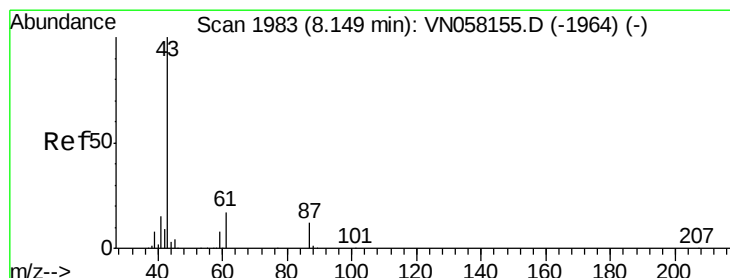
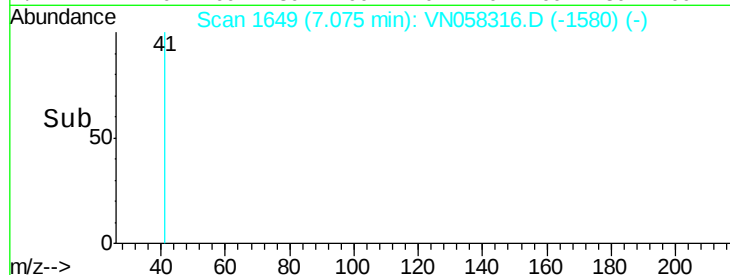
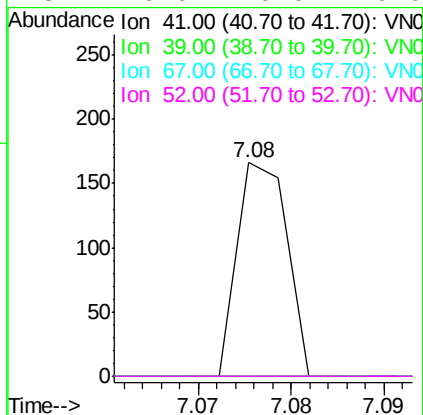
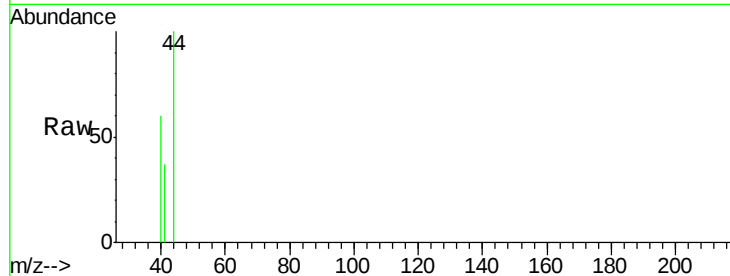




#41
Methacrylonitrile
Concen: 0.932 ug/l
RT: 7.08 min Scan# 1649
Delta R.T. -0.08 min
Lab File: VN058316.D
Acq: 24 Sep 2019 00:46

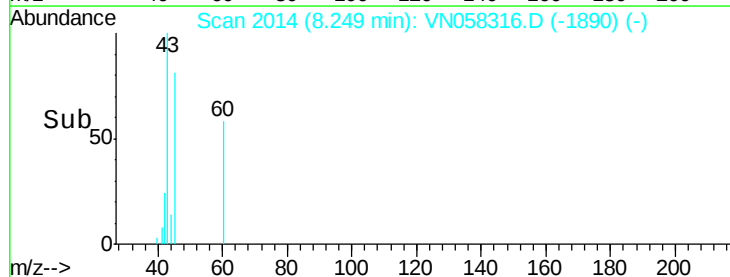
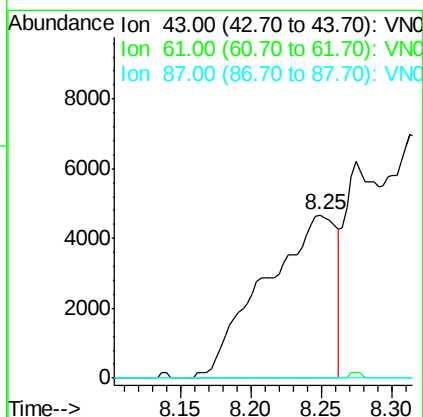
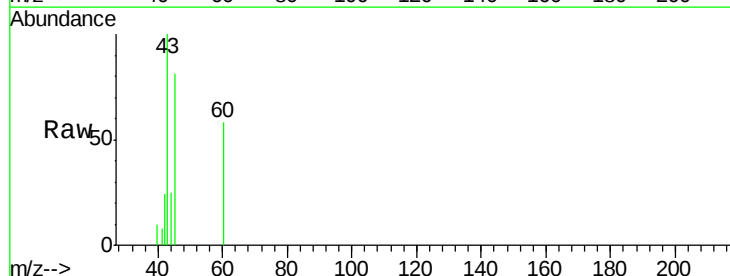
Instrument :
MSVOA_N
ClientSampled :
S49-0517

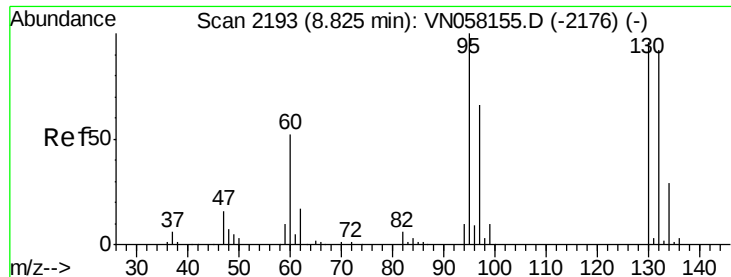
Tot Ion:	41	Resp:	62
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 1.539 ug/l
RT: 8.25 min Scan# 2014
Delta R.T. 0.10 min
Lab File: VN058316.D
Acq: 24 Sep 2019 00:46

Tgt Ion:	43	Resp:	16521
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#44

Trichloroethene

Concen: 3.175 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

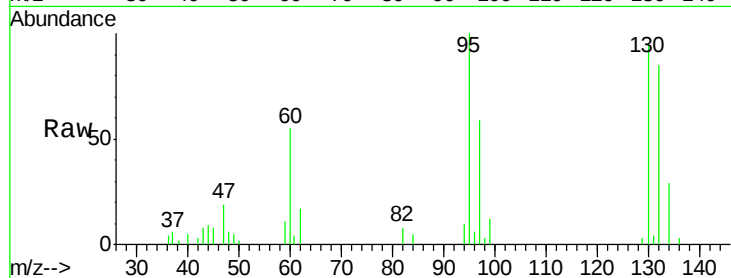
S49-0517

Tot Ion:130 Resp: 13144

Ion Ratio Lower Upper

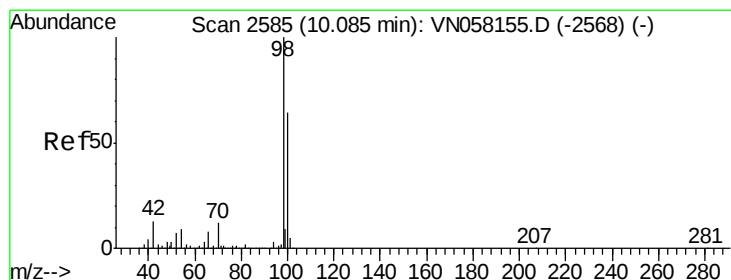
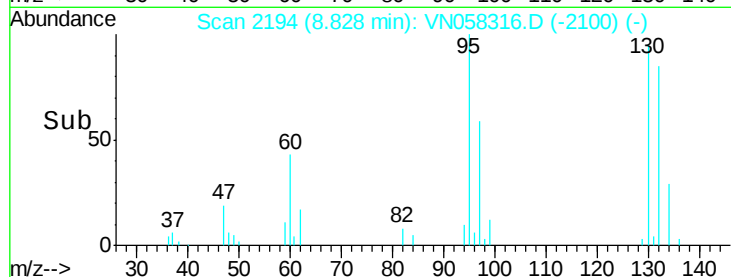
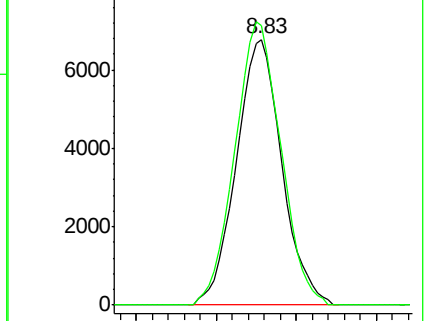
130 100

95 105.1 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 53.130 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058316.D

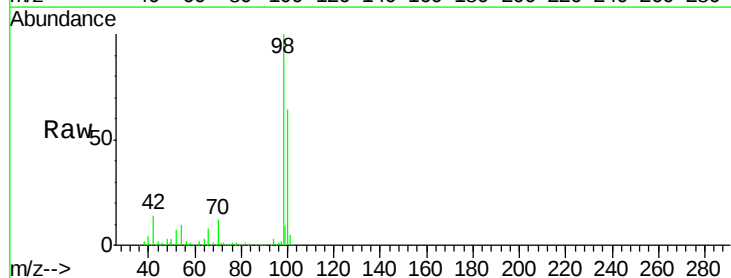
Acq: 24 Sep 2019 00:46

Tgt Ion: 98 Resp: 966643

Ion Ratio Lower Upper

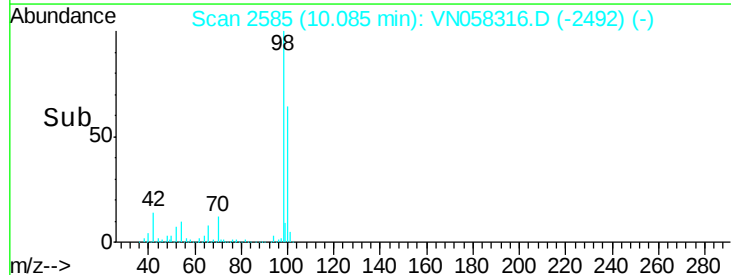
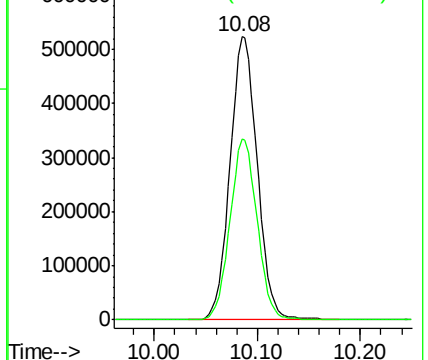
98 100

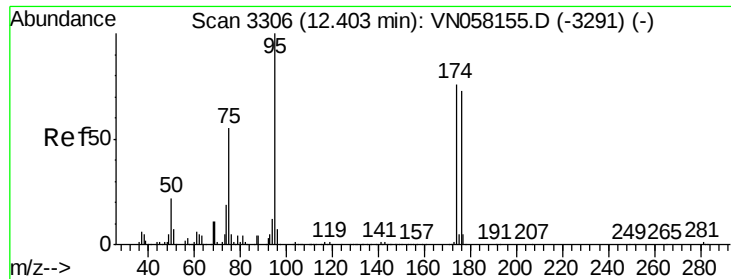
100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 45.103 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

S49-0517

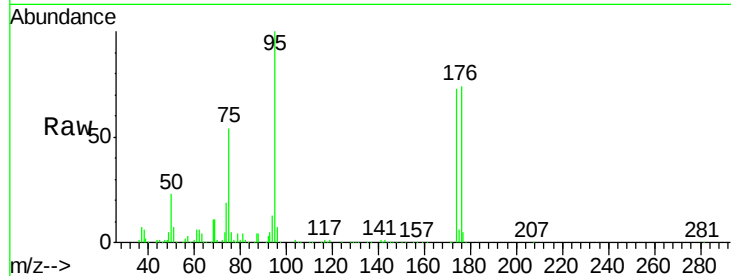
Tot Ion: 95 Resp: 304821

Ion Ratio Lower Upper

95 100

174 75.1 0.0 152.2

176 73.2 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058155.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058155.D (-3291) (-)

12.41

250000

200000

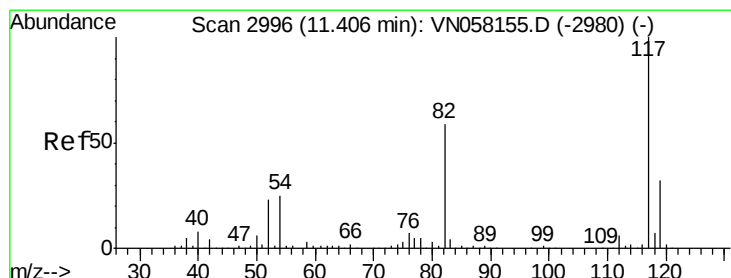
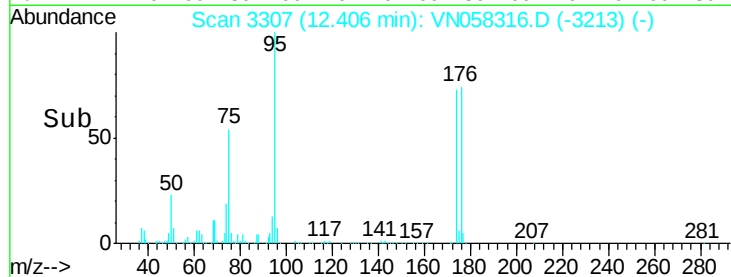
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

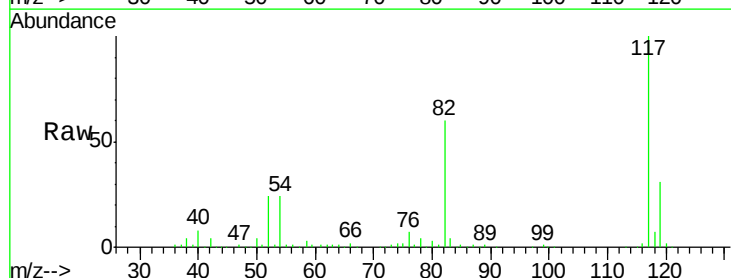
Tgt Ion: 117 Resp: 656678

Ion Ratio Lower Upper

117 100

82 59.9 46.9 70.3

119 31.3 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN058155.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058155.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058155.D (-2980) (-)

11.41

500000

400000

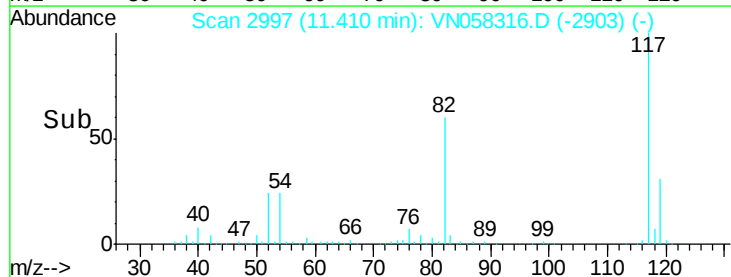
300000

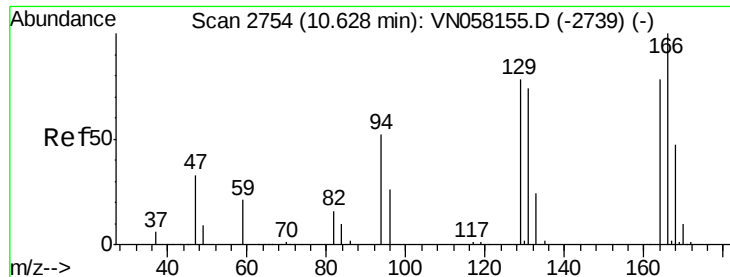
200000

100000

0

Time--> 11.30 11.40 11.50





#64

Tetrachloroethene

Concen: 0.303 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

S49-0517

Tot Ion:164 Resp: 971

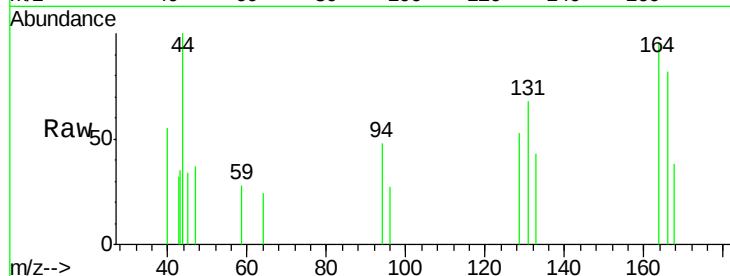
Ion Ratio Lower Upper

164 100

166 85.9 102.2 153.4#

129 55.9 79.6 119.4#

131 71.3 76.0 114.0#

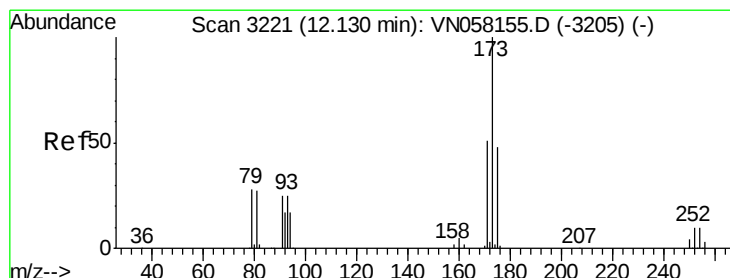
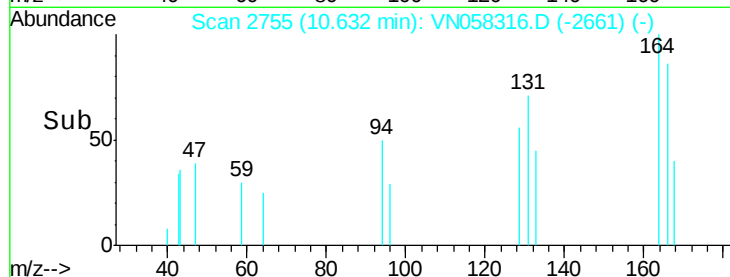
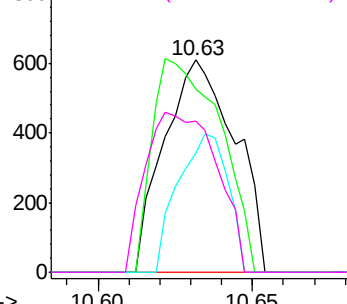


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 3.646 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

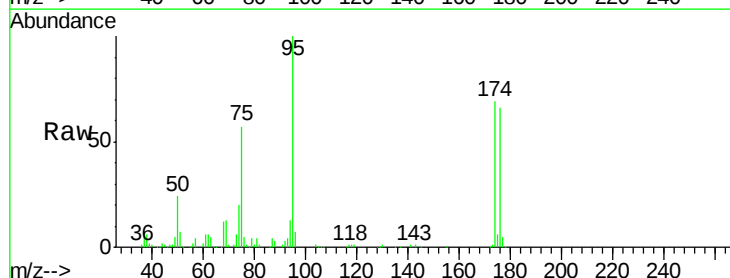
Tgt Ion:173 Resp: 169

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

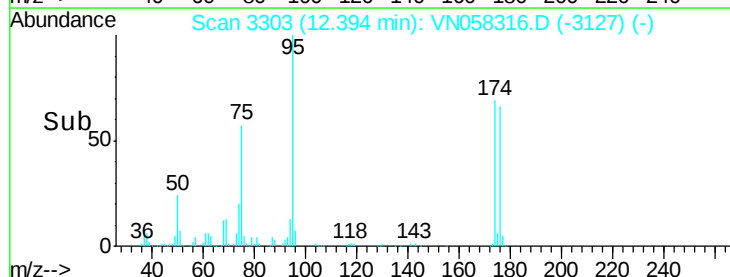
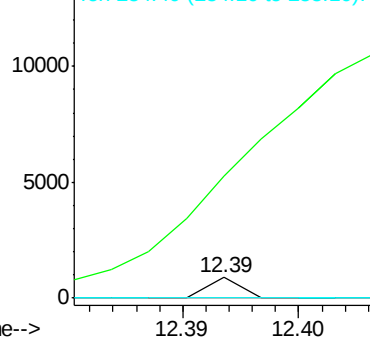
254 0.0 0.1 0.1#

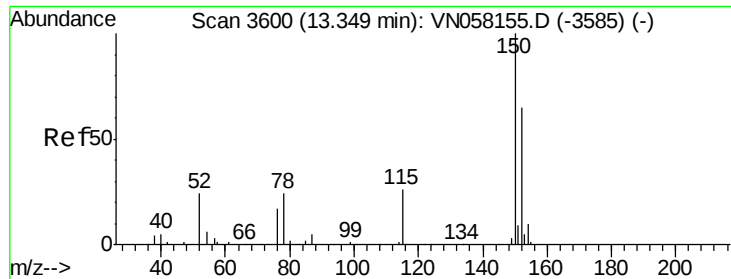


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

S49-0517

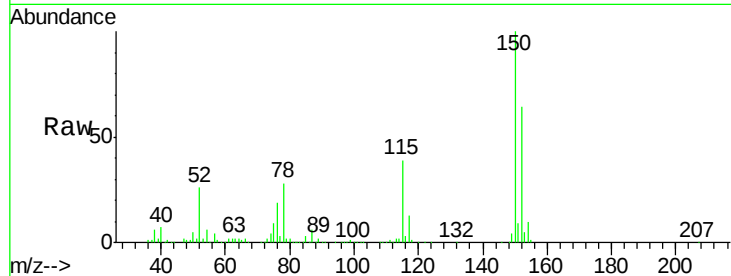
Tot Ion:152 Resp: 257556

Ion Ratio Lower Upper

152 100

115 62.2 30.1 90.3

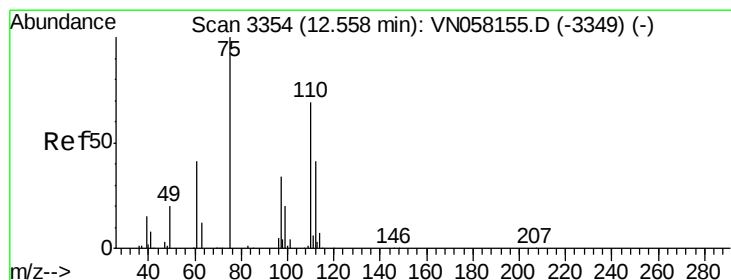
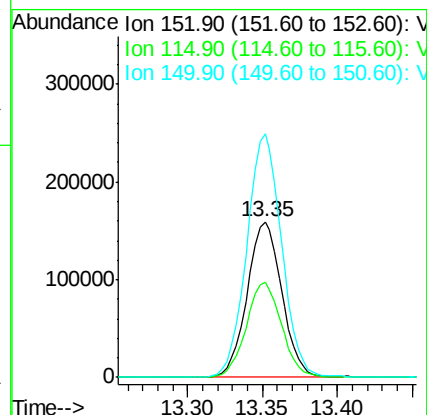
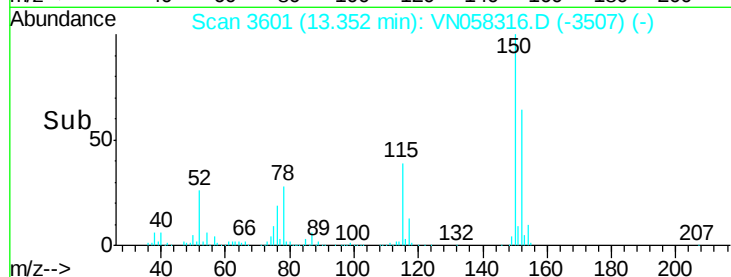
150 157.1 0.0 346.4



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: 36.413 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058316.D

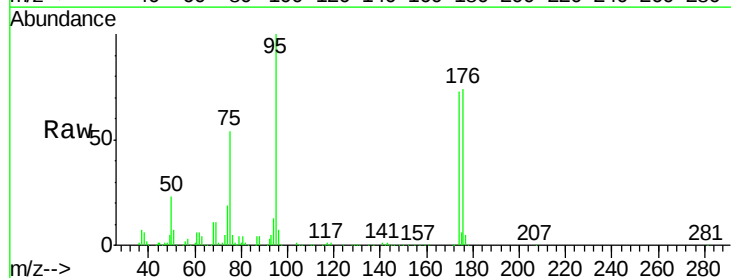
Acq: 24 Sep 2019 00:46

Tgt Ion: 75 Resp: 167844

Ion Ratio Lower Upper

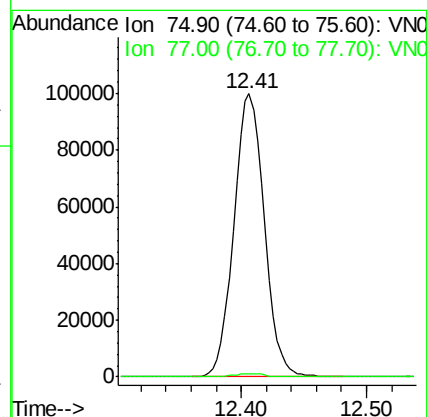
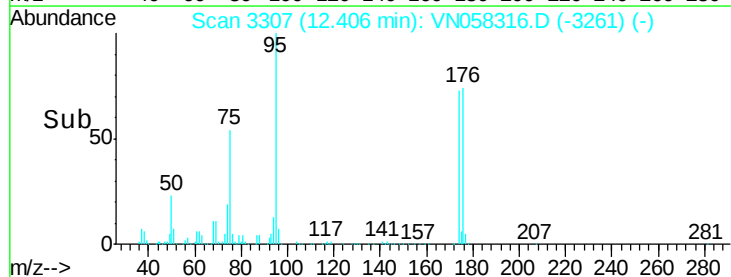
75 100

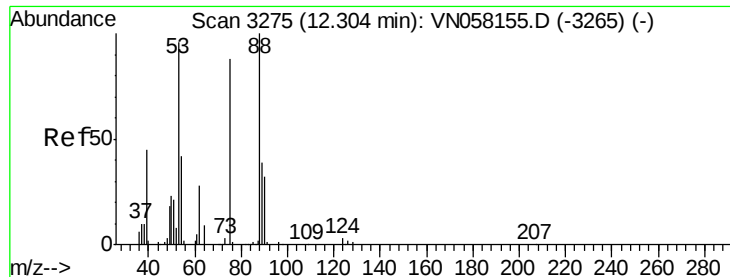
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 101.627 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

S49-0517

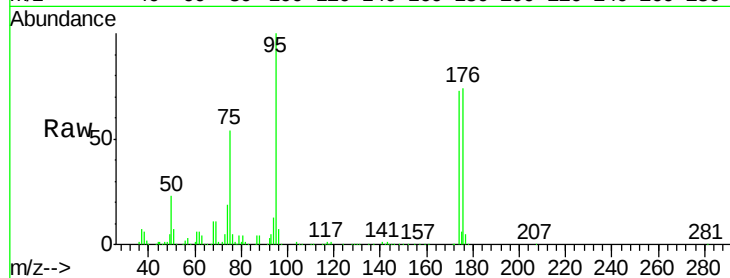
Tot Ion: 75 Resp: 167844

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

