

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081719\
 Data File : VN057349.D
 Acq On : 16 Aug 2019 12:17
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Quant Time: Aug 17 03:22:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N081719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 16 15:42:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	144674	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	787003	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	708785	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	278521	29.94	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.80%
60) 4-Bromofluorobenzene	12.40	95	318499	30.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.73%
63) Toluene-d8	10.09	98	955959	29.90	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.67%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	380965	50.978	ug/l 100
3) Chloromethane	2.06	50	437474	50.762	ug/l 99
4) Vinyl Chloride	2.18	62	412292	50.004	ug/l 99
5) Bromomethane	2.53	94	304707	47.494	ug/l 95
6) Chloroethane	2.69	64	282608	50.037	ug/l 100
7) Trichlorofluoromethane	3.01	101	654022	49.494	ug/l 99
8) Diethyl Ether	3.40	74	240638	49.482	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	385601	49.004	ug/l 96
10) 1,1-Dichloroethene	3.73	96	390631	50.057	ug/l 91
11) Methyl Iodide	3.95	142	662868	50.372	ug/l 99
12) Methyl Acetate	4.31	43	406850	46.372	ug/l 100
13) Acrolein	3.60	56	197925	238.562	ug/l 99
14) Acrylonitrile	4.97	53	875651	246.378	ug/l 99
15) Acetone	3.81	58	250513	239.198	ug/l 98
16) Carbon Disulfide	4.05	76	1053540	49.389	ug/l 100
17) Allyl chloride	4.32	41	541438	47.502	ug/l 97
18) Methylene Chloride	4.54	84	439257	49.179	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	412386	48.800	ug/l 97
20) Diisopropyl ether	5.93	45	1164937	49.081	ug/l 96
21) 1,1-Dichloroethane	5.84	63	720168	49.106	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	481228	49.142	ug/l 98
23) tert-Butyl Alcohol	4.76	59	310066	244.806	ug/l # 100
24) Methyl tert-Butyl Ether	5.03	73	1178342	49.204	ug/l 99
25) Chloroform	7.36	83	747818	48.787	ug/l 99
26) Cyclohexane	7.65	56	597128	48.983	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	567692	49.588	ug/l 99
30) 2-Butanone	6.82	43	1109049	245.541	ug/l 96
31) 2,2-Dichloropropane	6.81	77	622631	49.648	ug/l 100
32) 1,1,1-Trichloroethane	7.56	97	670456	49.539	ug/l 97
33) Carbon Tetrachloride	7.77	117	603418	50.072	ug/l 98
34) Benzene	8.03	78	1703763	49.057	ug/l # 94
35) Methacrylonitrile	7.19	41	637568	105.078	ug/l # 51
36) 1,2-Dichloroethane	8.12	62	558460	49.478	ug/l 99
37) Trichloroethene	8.83	130	495788	49.042	ug/l 95
38) Methylcyclohexane	9.08	83	670358	49.444	ug/l 97
39) 1,2-Dichloropropane	9.11	63	444542	50.080	ug/l 98
40) Dibromomethane	9.20	93	289218	48.977	ug/l 93

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	593368	49.590	ug/l	99
42) Vinyl Acetate	5.88	43	4729332	248.844	ug/l	97
43) Ethyl Acetate	6.91	43	453088	48.892	ug/l	98
45) 1,4-Dioxane	9.19	88	152789	993.931	ug/l	96
46) Methyl methacrylate	9.19	41	369015	50.464	ug/l	92
47) n-amyl Acetate	12.07	43	599479	49.752	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	643129	49.681	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	719222	49.902	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	424122	49.213	ug/l	98
51) Ethyl methacrylate	10.43	69	627997	50.267	ug/l	94
52) 1,3-Dichloropropane	10.71	76	695736	49.431	ug/l	99
53) Dibromochloromethane	10.90	129	496189	50.044	ug/l	99
54) 1,2-Dibromoethane	11.00	107	450870	49.675	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	716970	246.537	ug/l	97
56) Bromoform	12.13	173	374161	49.975	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	2252332	243.938	ug/l	96
59) 2-Hexanone	10.75	43	1610272	243.153	ug/l	96
61) Tetrachloroethene	10.63	164	504253	48.539	ug/l	98
62) Toluene	10.15	91	1909394	48.841	ug/l	99
64) Chlorobenzene	11.43	112	1211427	49.328	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	468202	49.046	ug/l	98
66) Ethyl Benzene	11.51	91	2106092	49.310	ug/l	99
67) m/p-Xylenes	11.62	106	1585613	99.189	ug/l	99
68) o-Xylene	11.95	106	766831	49.069	ug/l	97
69) Styrene	11.96	104	1258429	50.123	ug/l	99
70) Isopropylbenzene	12.25	105	2075534	49.539	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	560443	48.832	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	699517	72.225	ug/l	72
73) Bromobenzene	12.53	156	553310	49.837	ug/l	91
74) n-propylbenzene	12.59	91	2176085	50.003	ug/l	98
75) 2-Chlorotoluene	12.67	91	1349312	49.963	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	1732727	49.725	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	185968	50.039	ug/l	88
78) 4-Chlorotoluene	12.77	91	1245440	49.289	ug/l	98
79) tert-butylbenzene	12.99	119	1515762	48.814	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	1642305	49.966	ug/l	99
81) sec-Butylbenzene	13.17	105	1884816	49.242	ug/l	99
82) p-Isopropyltoluene	13.29	119	1673754	48.810	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	803283	49.393	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	748374	49.298	ug/l	100
85) n-Butylbenzene	13.62	91	1289648	50.578	ug/l	98
86) Hexachloroethane	13.88	117	323608	49.031	ug/l	90
87) 1,2-Dichlorobenzene	13.66	146	756682	49.250	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	73715	47.920	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	261720	48.145	ug/l	98
90) Hexachlorobutadiene	15.01	225	332413	47.917	ug/l	99
91) Naphthalene	15.13	128	521214	44.361	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	244187	47.376	ug/l	99

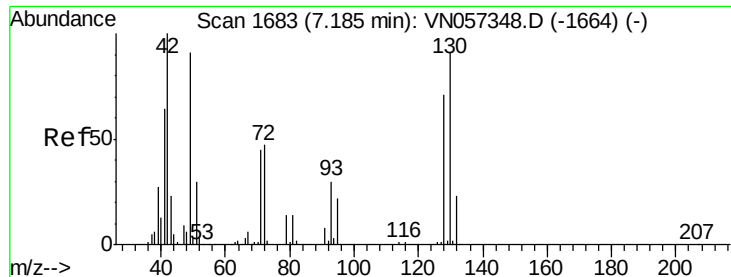
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

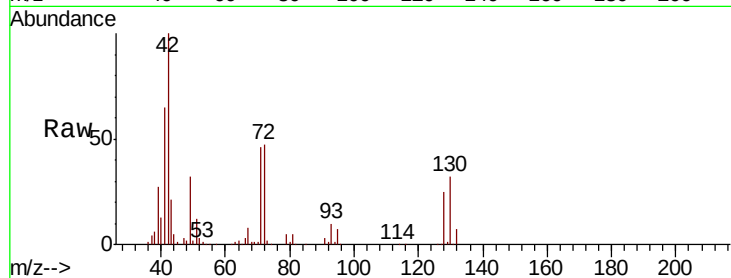
Tgt Ion:128 Resp: 144674

Ion Ratio Lower Upper

128 100

49 135.3 0.0 390.5

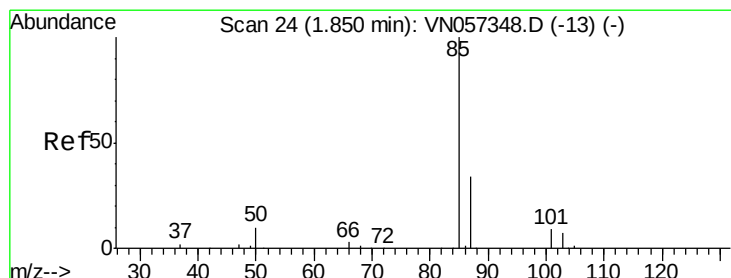
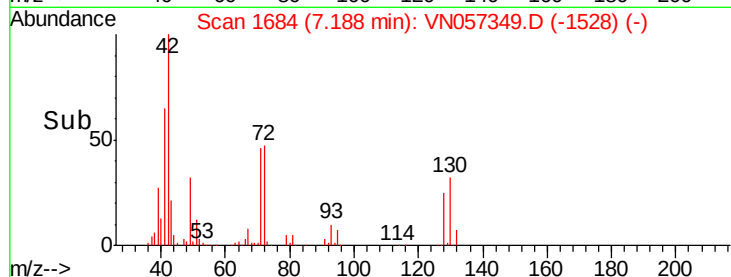
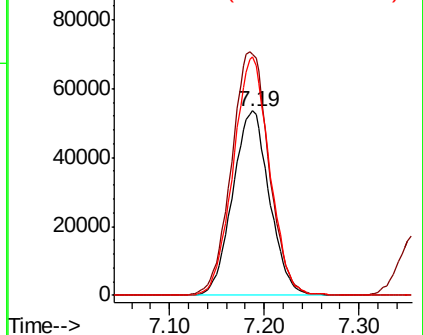
130 127.6 0.0 316.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 50.978 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN057349.D

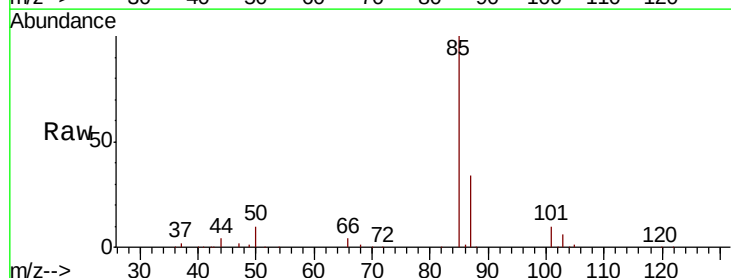
Acq: 16 Aug 2019 12:17

Tgt Ion: 85 Resp: 380965

Ion Ratio Lower Upper

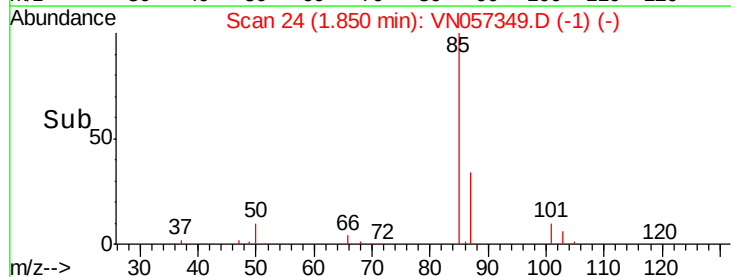
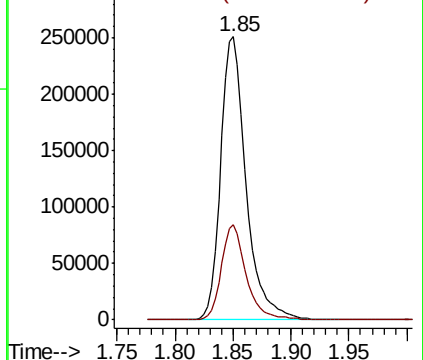
85 100

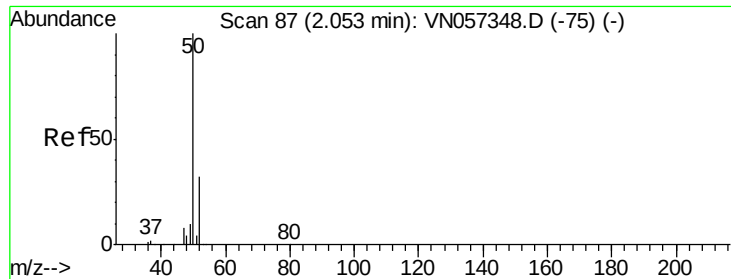
87 33.7 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 50.762 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

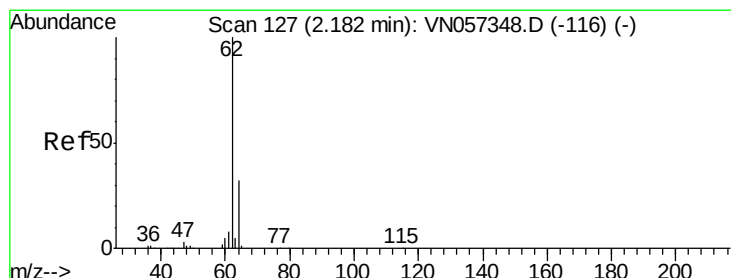
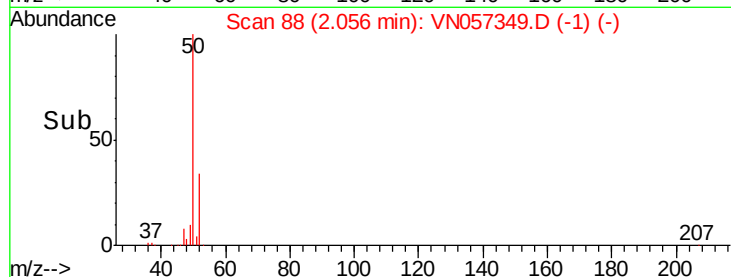
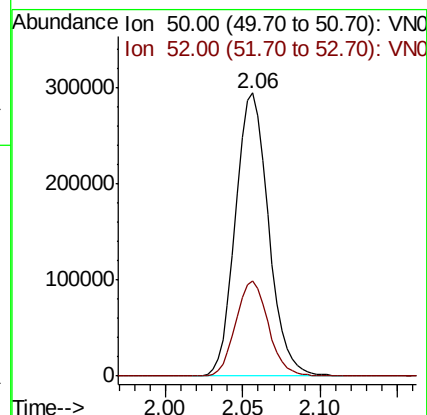
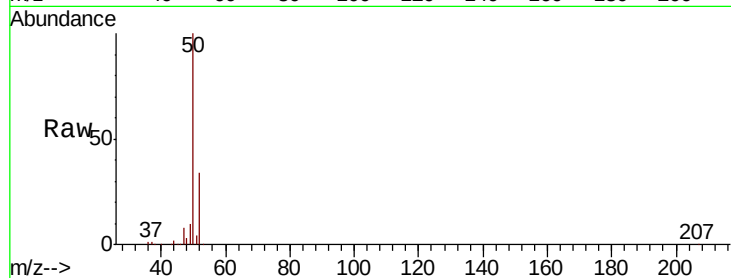
VSTDIC050

Tgt Ion: 50 Resp: 437474

Ion Ratio Lower Upper

50 100

52 33.6 26.5 39.7



#4

Vinyl Chloride

Concen: 50.004 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN057349.D

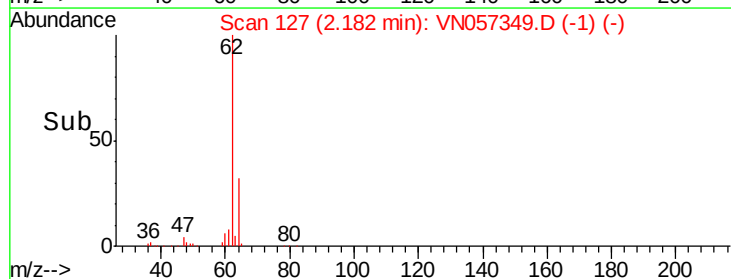
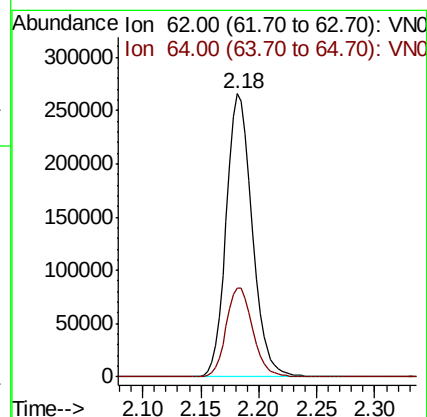
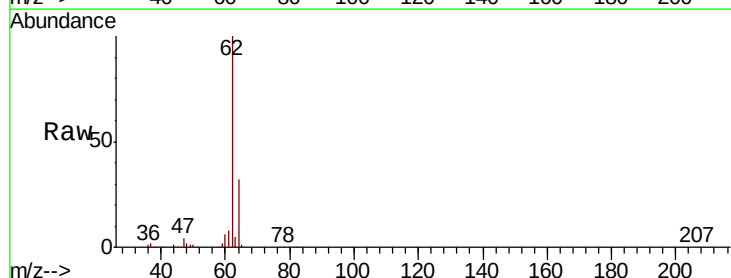
Acq: 16 Aug 2019 12:17

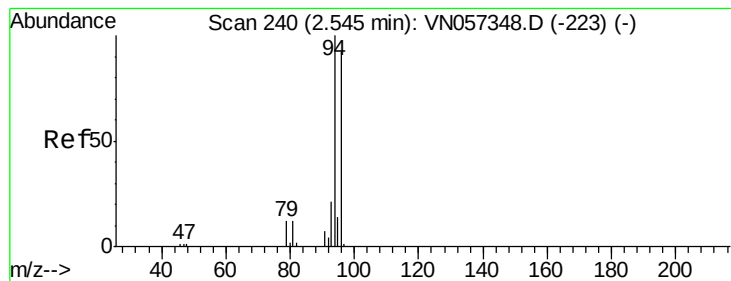
Tgt Ion: 62 Resp: 412292

Ion Ratio Lower Upper

62 100

64 31.6 25.0 37.4





#5

Bromomethane

Concen: 47.494 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.01 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

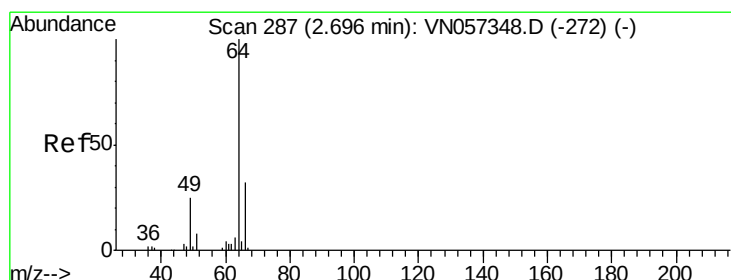
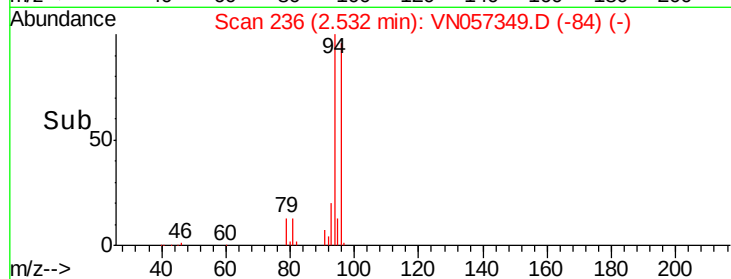
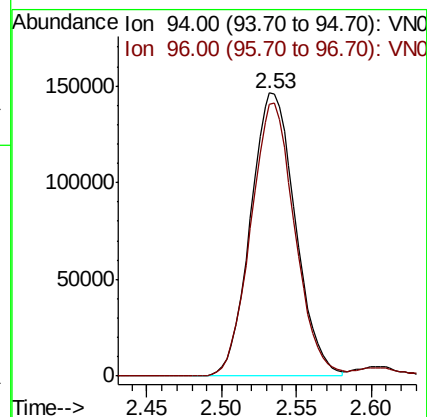
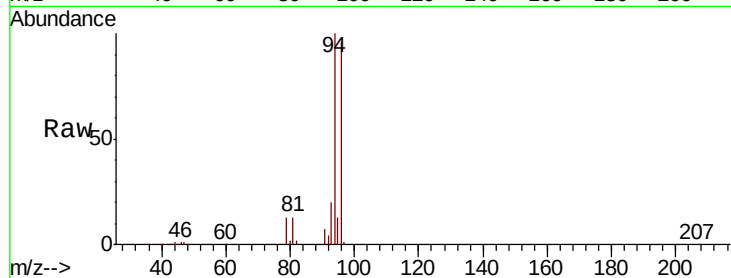
VSTDIC050

Tgt Ion: 94 Resp: 304707

Ion Ratio Lower Upper

94 100

96 96.2 72.8 109.2



#6

Chloroethane

Concen: 50.037 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.01 min

Lab File: VN057349.D

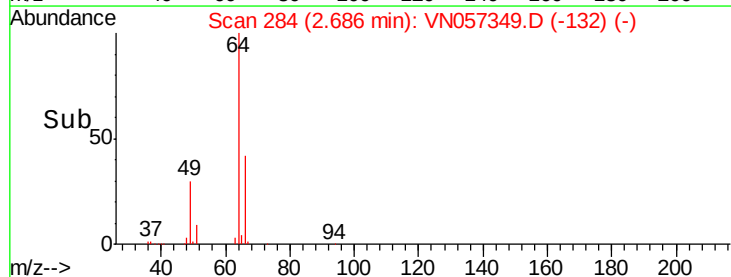
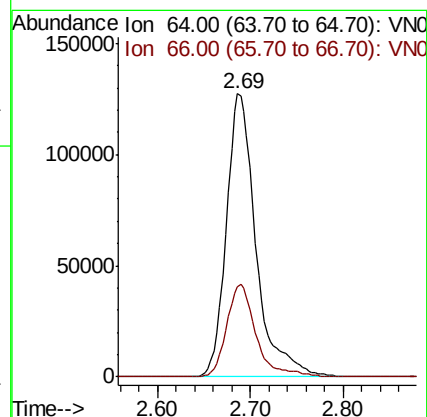
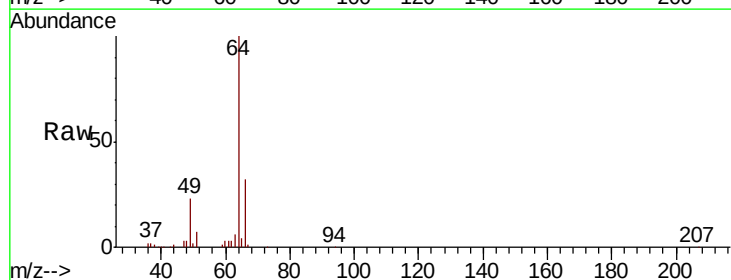
Acq: 16 Aug 2019 12:17

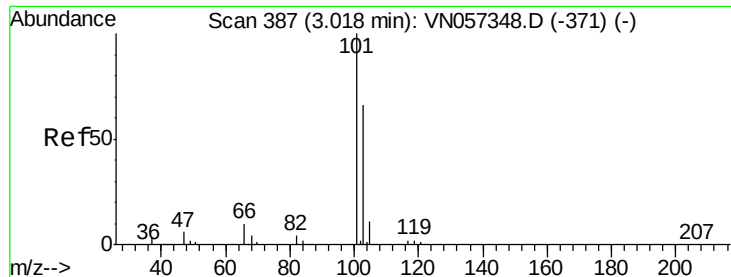
Tgt Ion: 64 Resp: 282608

Ion Ratio Lower Upper

64 100

66 31.9 25.7 38.5



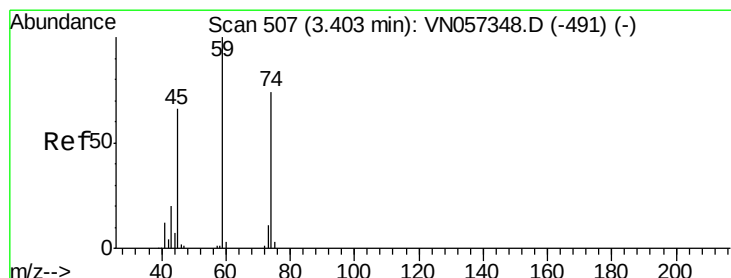
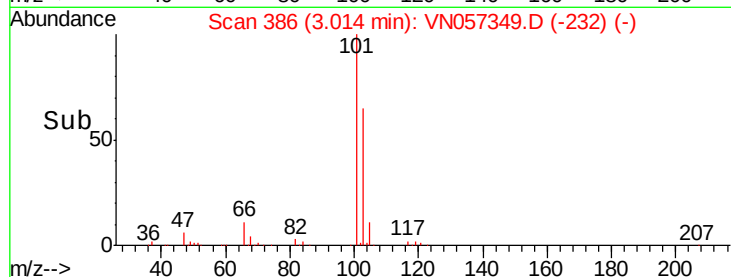
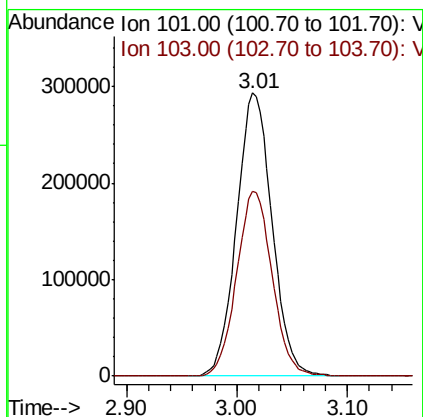
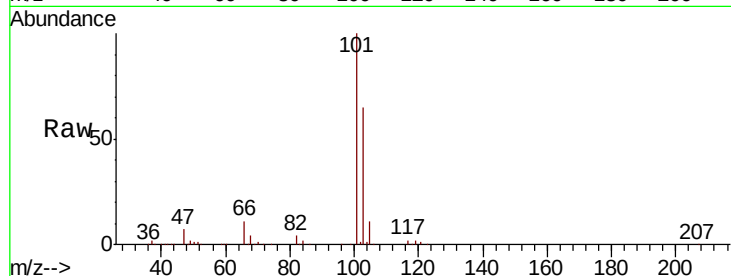


#7

Trichlorofluoromethane
 Concen: 49.494 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

Instrument :
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 ClientSampleId :
 VSTDIC050

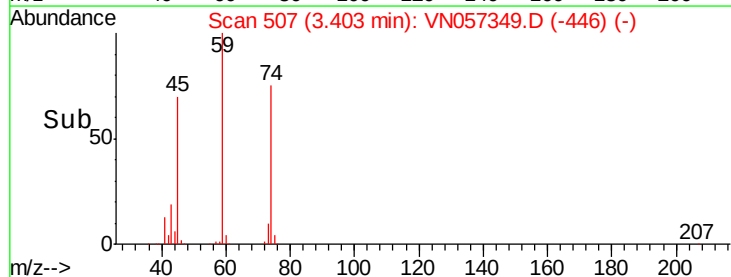
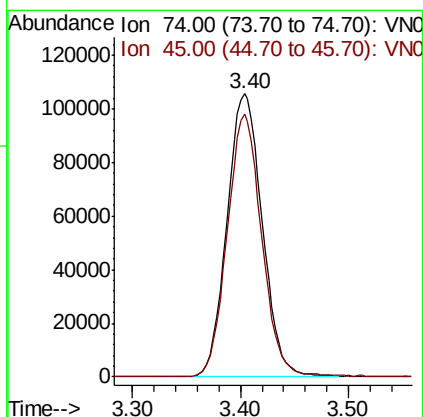
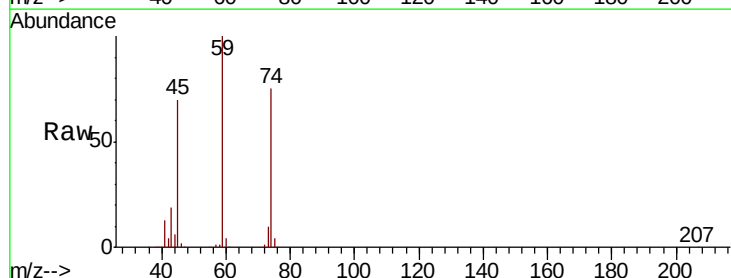
Tgt Ion: 101 Resp: 654022
 Ion Ratio Lower Upper
 101 100
 103 65.3 52.8 79.2

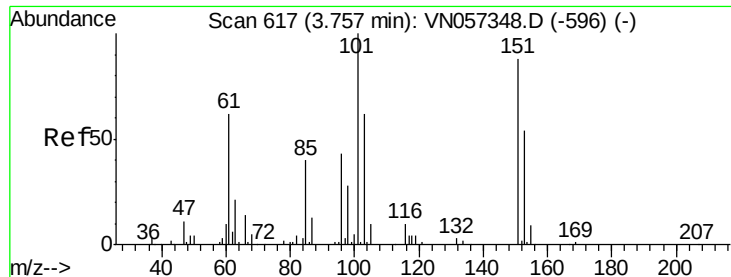


#8

Diethyl Ether
 Concen: 49.482 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

Tgt Ion: 74 Resp: 240638
 Ion Ratio Lower Upper
 74 100
 45 89.9 19.9 179.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.004 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

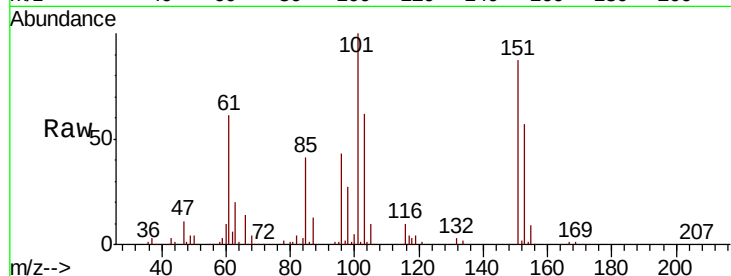
Tgt Ion: 101 Resp: 385601

Ion Ratio Lower Upper

101 100

85 41.7 0.0 84.2

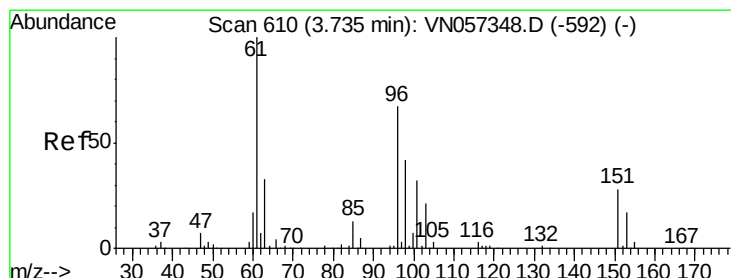
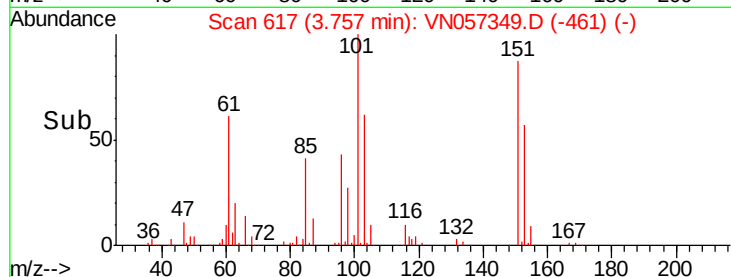
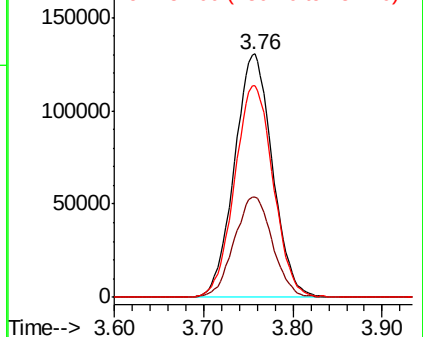
151 88.4 0.0 167.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 50.057 ug/l

RT: 3.73 min Scan# 609

Delta R.T. -0.01 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

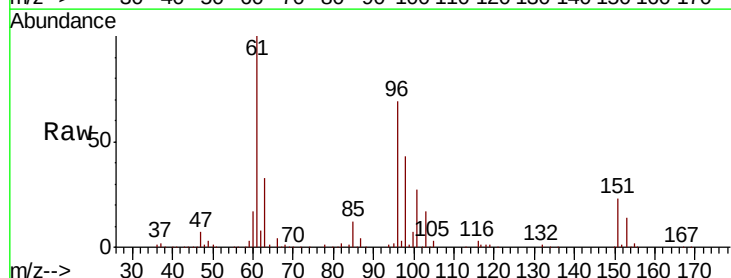
Tgt Ion: 96 Resp: 390631

Ion Ratio Lower Upper

96 100

61 145.6 129.0 193.4

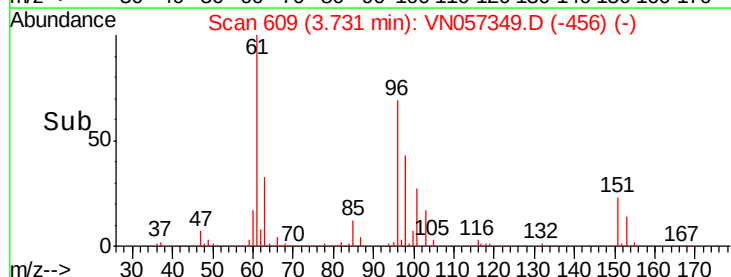
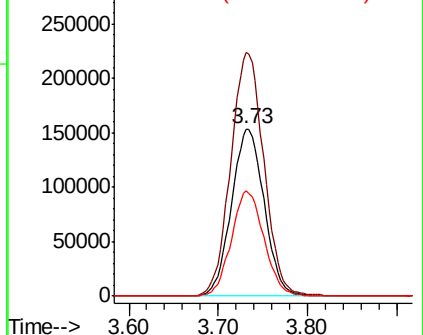
98 63.1 52.5 78.7

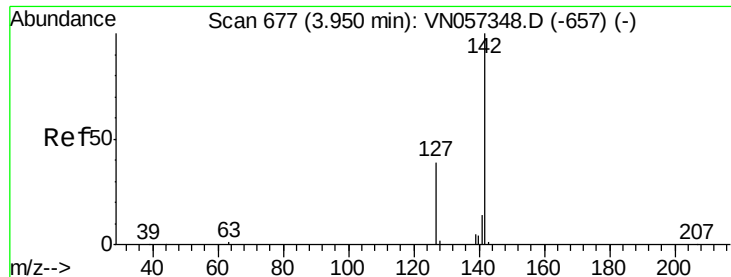


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

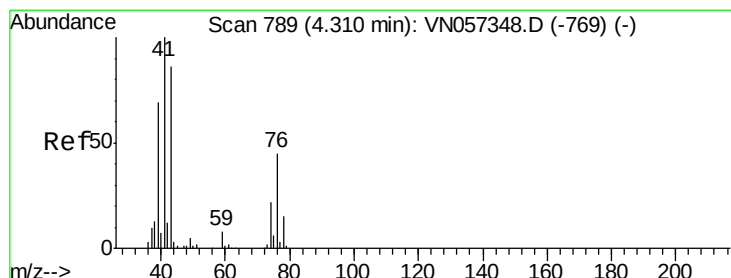
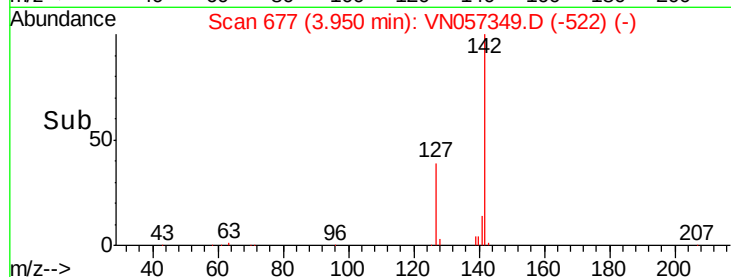
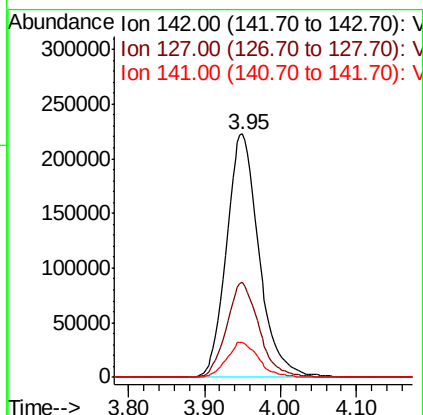
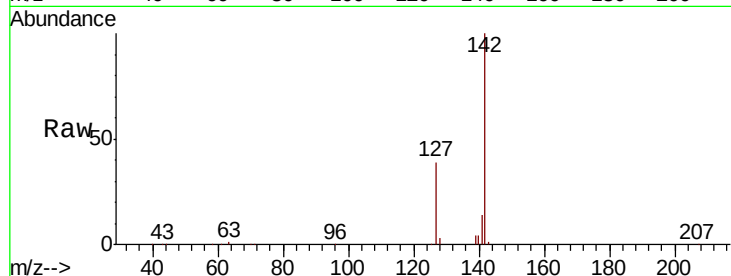




#11
Methyl Iodide
Concen: 50.372 ug/l
RT: 3.95 min Scan# 677
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

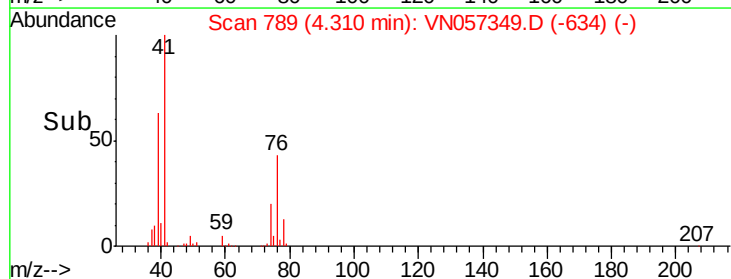
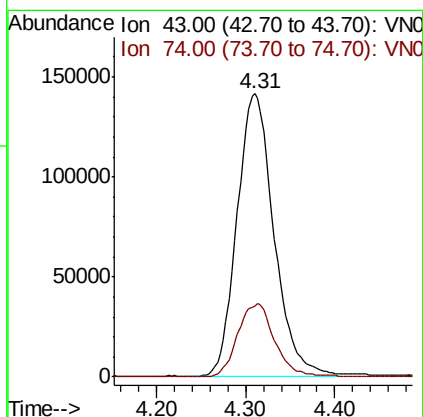
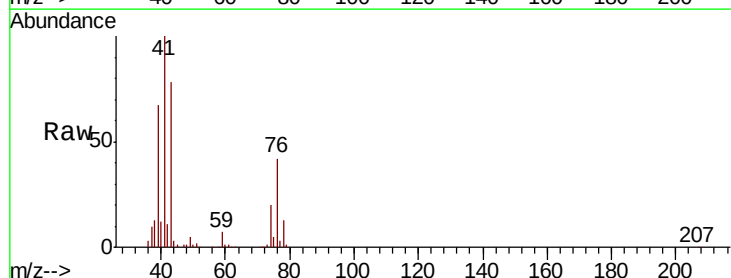
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

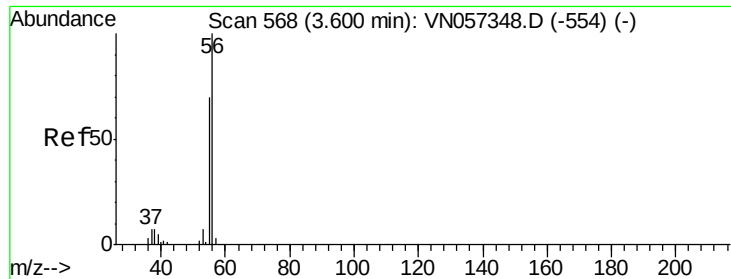
Tgt Ion: 142 Resp: 662868
Ion Ratio Lower Upper
142 100
127 38.9 19.5 58.5
141 14.3 6.8 20.3



#12
Methyl Acetate
Concen: 46.372 ug/l
RT: 4.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

Tgt Ion: 43 Resp: 406850
Ion Ratio Lower Upper
43 100
74 25.2 20.2 30.4





#13

Acrolein

Concen: 238.562 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

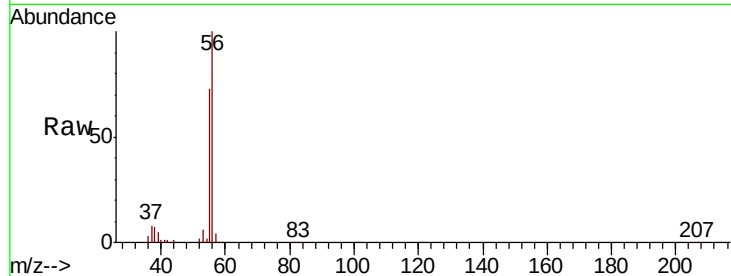
VSTDIC050

Tgt Ion: 56 Resp: 197925

Ion Ratio Lower Upper

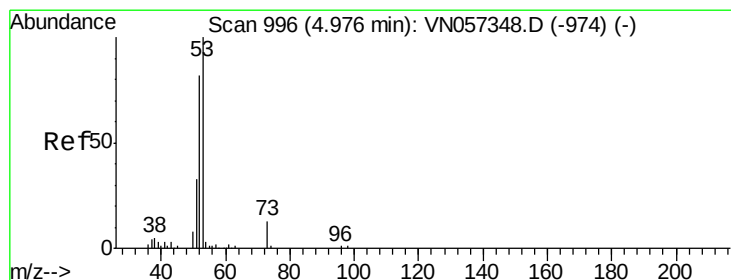
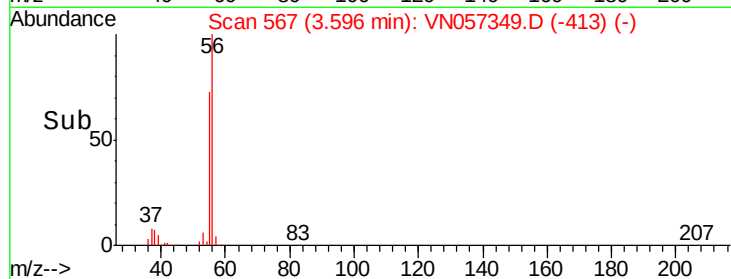
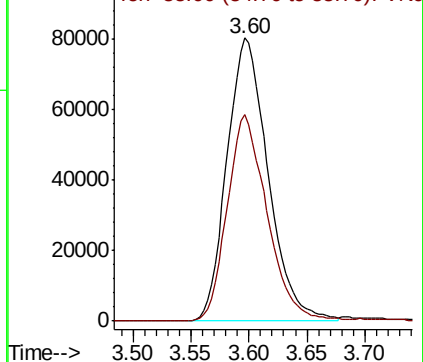
56 100

55 70.5 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 246.378 ug/l

RT: 4.97 min Scan# 994

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

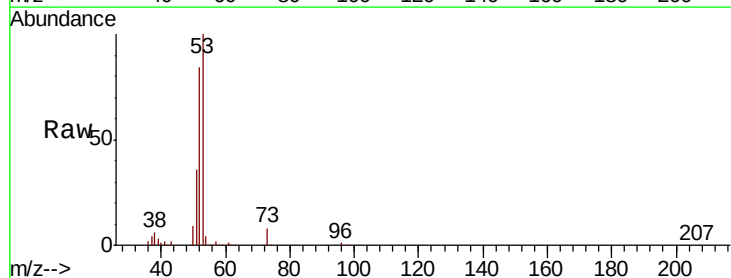
Tgt Ion: 53 Resp: 875651

Ion Ratio Lower Upper

53 100

52 82.1 41.3 123.7

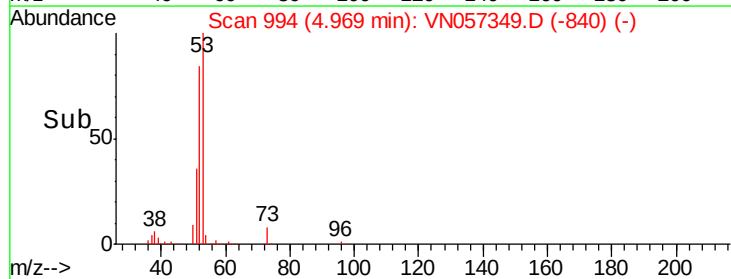
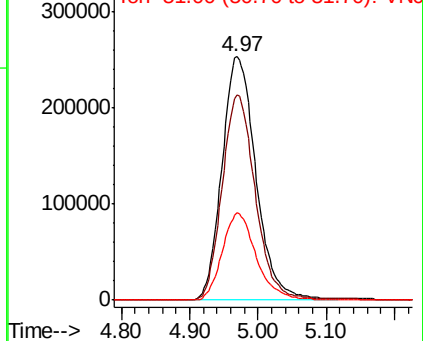
51 35.9 17.7 53.1

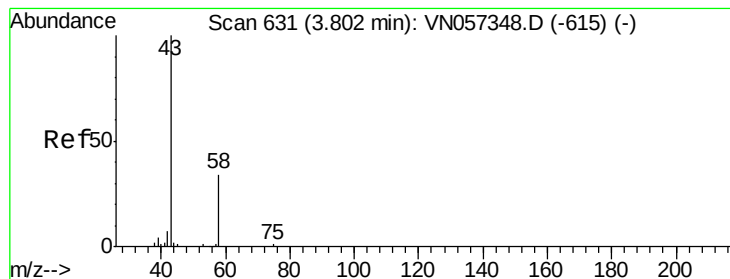


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 239.198 ug/l

RT: 3.81 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

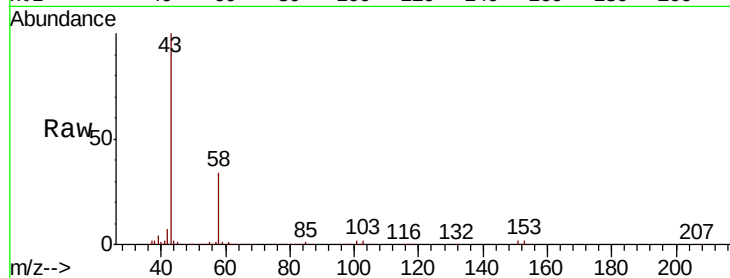
VSTDIC050

Tgt Ion: 58 Resp: 250513

Ion Ratio Lower Upper

58 100

43 295.4 233.9 350.9



Abundance Ion 58.00 (57.70 to 58.70): VN057348.D (-615) (-)

Ion 43.00 (42.70 to 43.70): VN057348.D (-615) (-)

300000

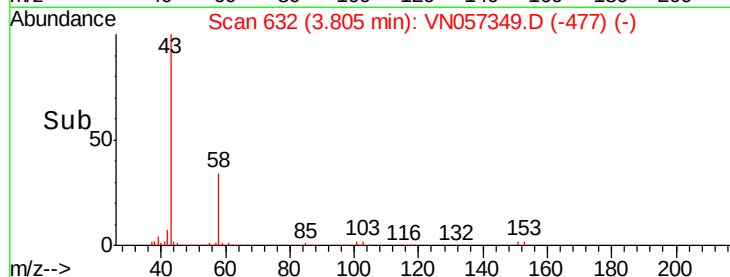
200000

100000

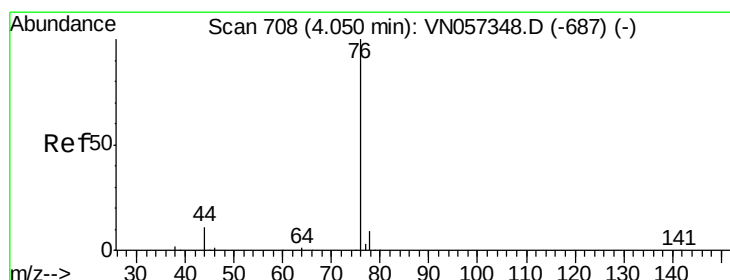
0

3.70 3.80 3.90

Time-->



Time-->



#16

Carbon Disulfide

Concen: 49.389 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN057349.D

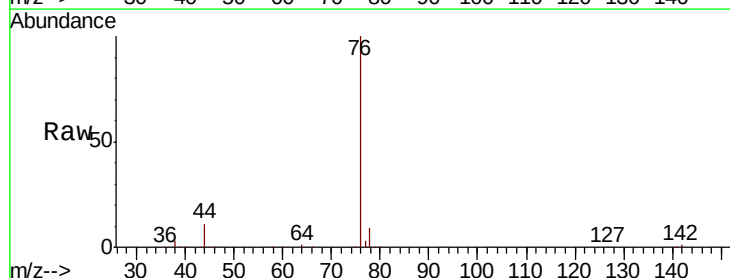
Acq: 16 Aug 2019 12:17

Tgt Ion: 76 Resp: 1053540

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN057348.D (-687) (-)

Ion 78.00 (77.70 to 78.70): VN057348.D (-687) (-)

400000

300000

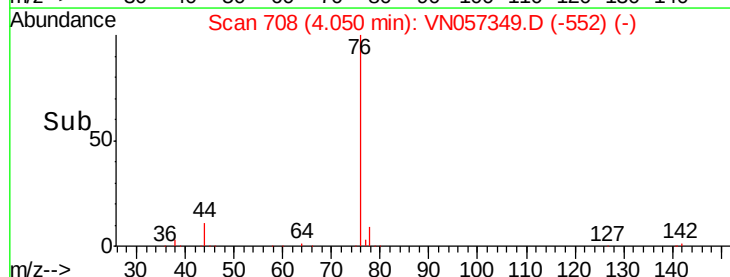
200000

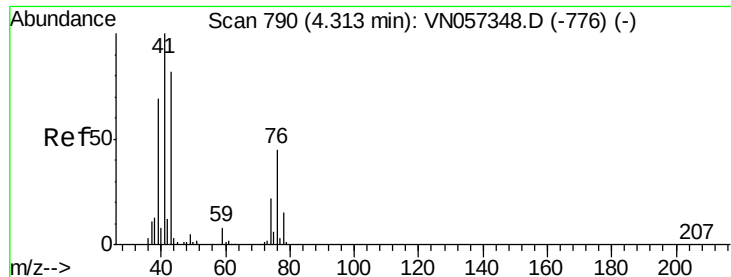
100000

0

3.90 4.00 4.10 4.20

Time-->





#17

Allyl chloride

Concen: 47.502 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

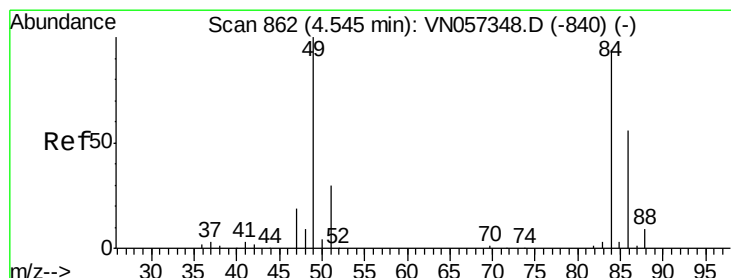
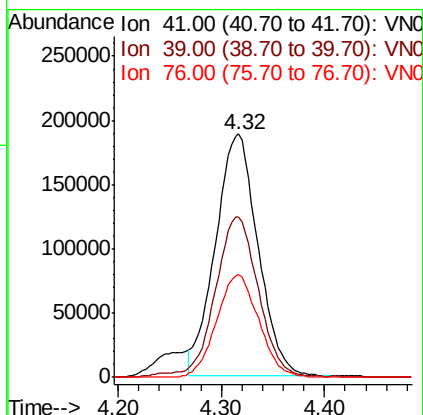
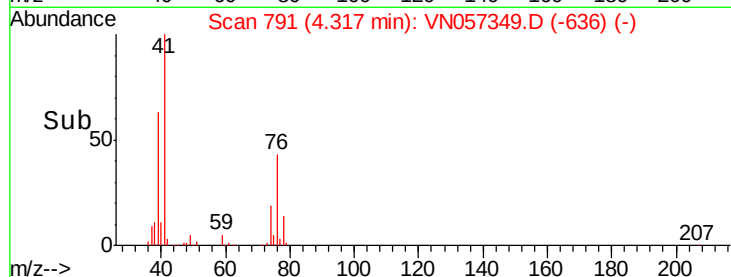
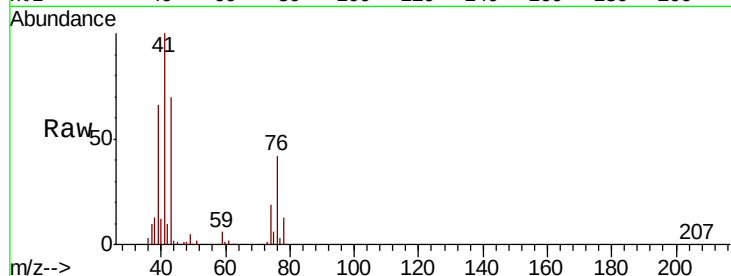
Tgt Ion: 41 Resp: 541438

Ion Ratio Lower Upper

41 100

39 65.6 32.8 98.4

76 42.2 18.5 55.5



#18

Methylene Chloride

Concen: 49.179 ug/l

RT: 4.54 min Scan# 862

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Tgt Ion: 84 Resp: 439257

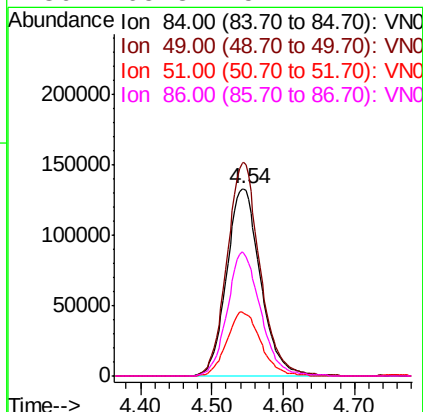
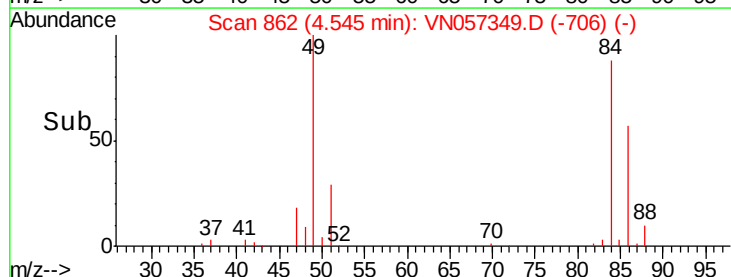
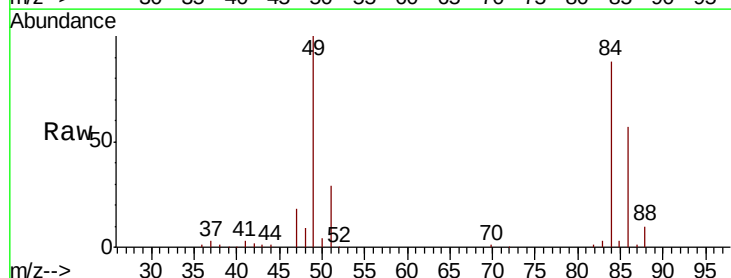
Ion Ratio Lower Upper

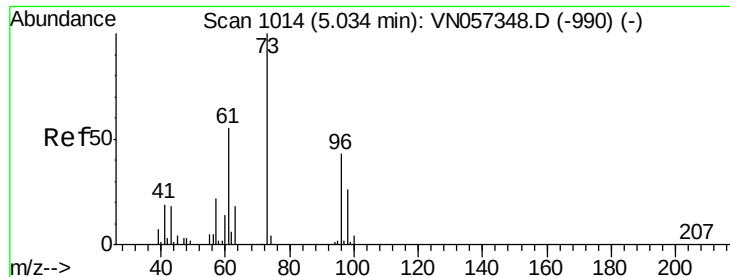
84 100

49 113.9 93.9 140.9

51 33.5 31.7 47.5

86 65.3 51.4 77.2

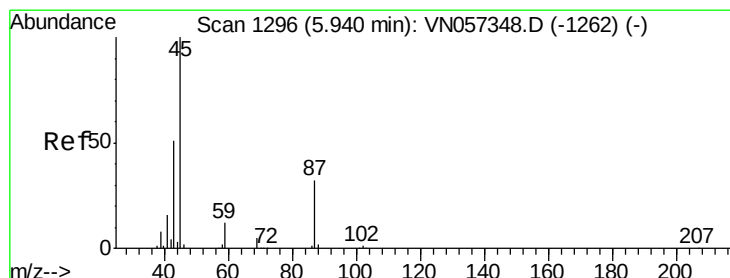
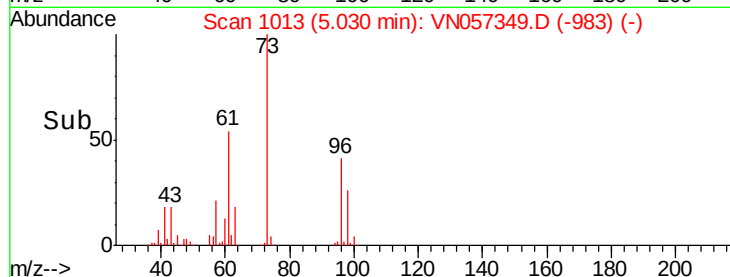
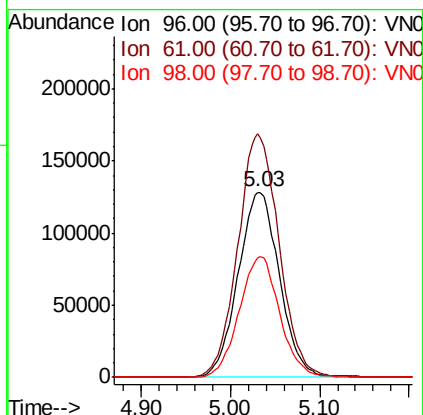
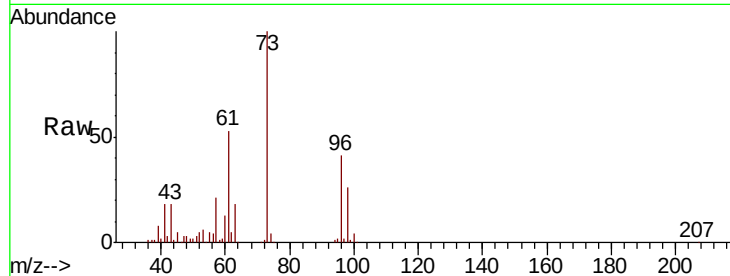




#19
trans-1,2-Dichloroethene
Concen: 48.800 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

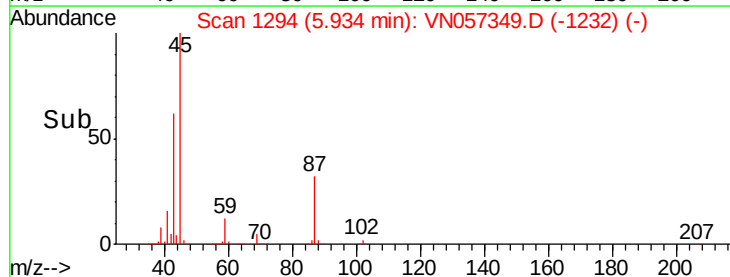
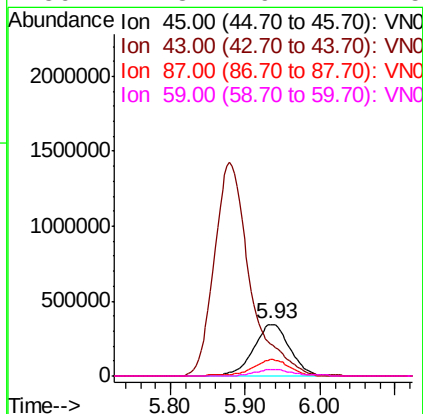
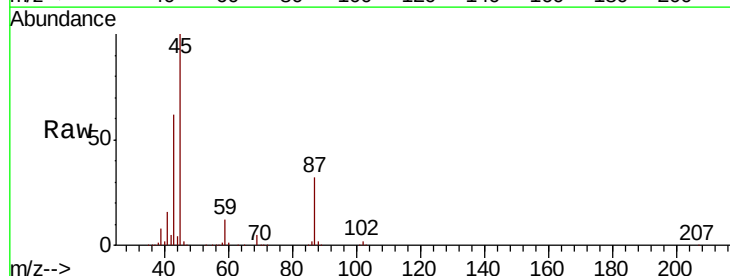
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

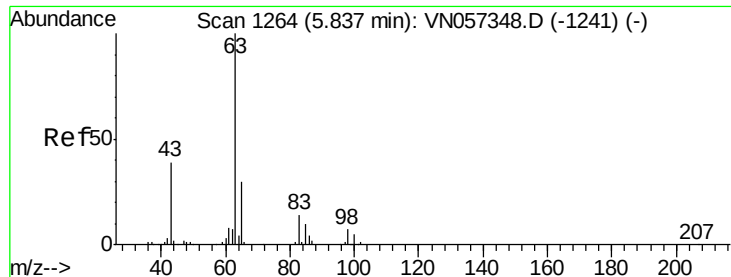
Tgt Ion: 96 Resp: 412386
Ion Ratio Lower Upper
96 100
61 131.4 109.6 164.4
98 64.3 51.4 77.2



#20
Diisopropyl ether
Concen: 49.081 ug/l
RT: 5.93 min Scan# 1294
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

Tgt Ion: 45 Resp: 1164937
Ion Ratio Lower Upper
45 100
43 60.5 50.3 75.5
87 31.5 21.4 32.0
59 11.8 9.7 14.5





#21

1,1-Dichloroethane

Concen: 49.106 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

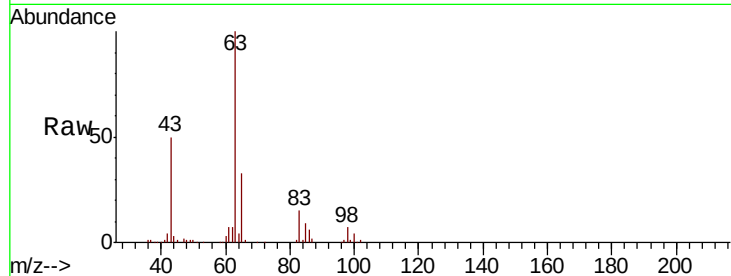
Tgt Ion: 63 Resp: 720168

Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

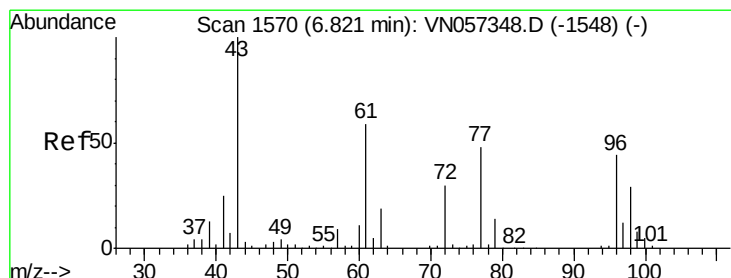
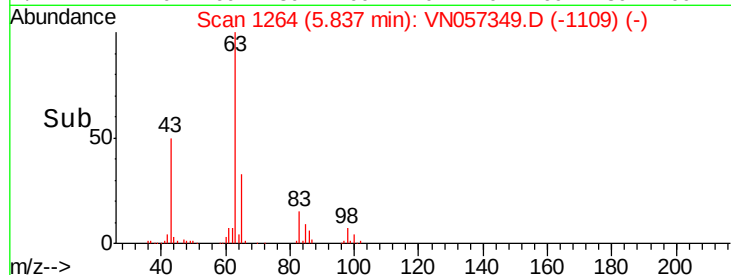
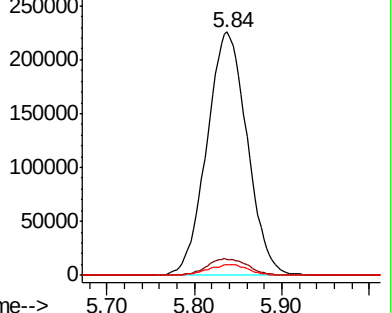
100 4.4 2.1 6.3



Abundance Ion 63.00 (62.70 to 63.70): VN057348.D (-1241) (-)

Ion 98.00 (97.70 to 98.70): VN057348.D (-1241) (-)

Ion 100.00 (99.70 to 100.70): VN057348.D (-1241) (-)



#22

cis-1,2-Dichloroethene

Concen: 49.142 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

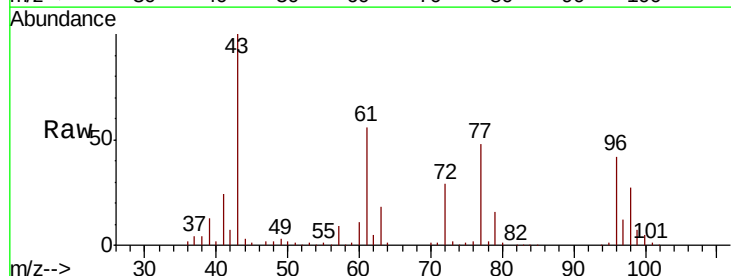
Tgt Ion: 96 Resp: 481228

Ion Ratio Lower Upper

96 100

61 136.1 112.1 168.1

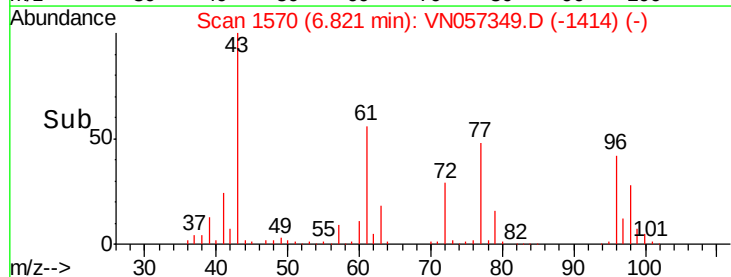
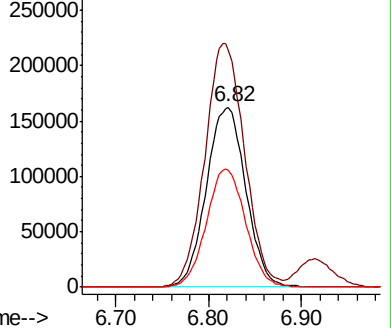
98 65.2 52.2 78.2

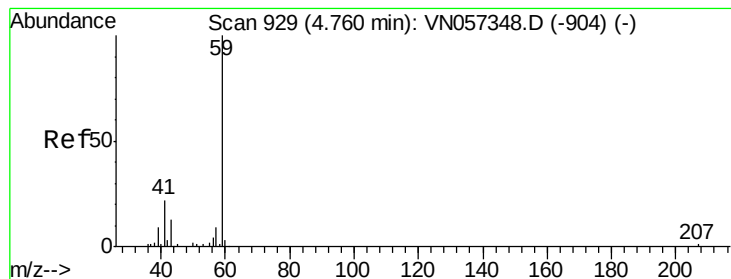


Abundance Ion 96.00 (95.70 to 96.70): VN057348.D (-1548) (-)

Ion 61.00 (60.70 to 61.70): VN057348.D (-1548) (-)

Ion 98.00 (97.70 to 98.70): VN057348.D (-1548) (-)





#23

tert-Butyl Alcohol

Concen: 244.806 ug/l

RT: 4.76 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

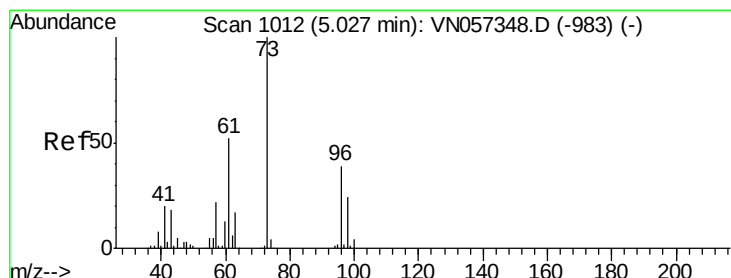
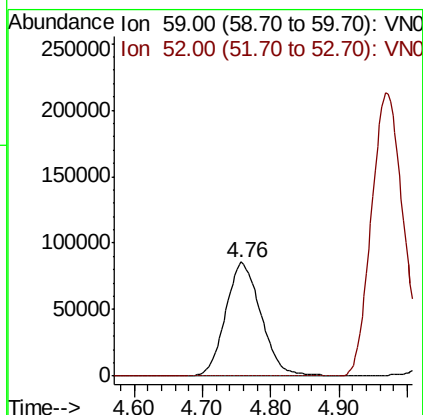
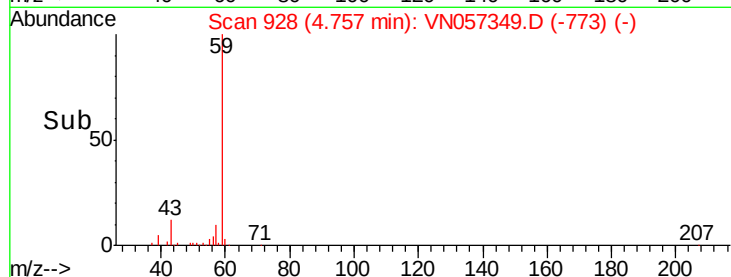
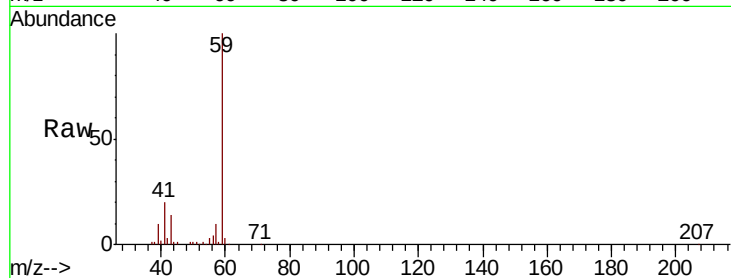
VSTDIC050

Tgt Ion: 59 Resp: 310066

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



#24

Methyl tert-Butyl Ether

Concen: 49.204 ug/l

RT: 5.03 min Scan# 1012

Delta R.T. -0.00 min

Lab File: VN057349.D

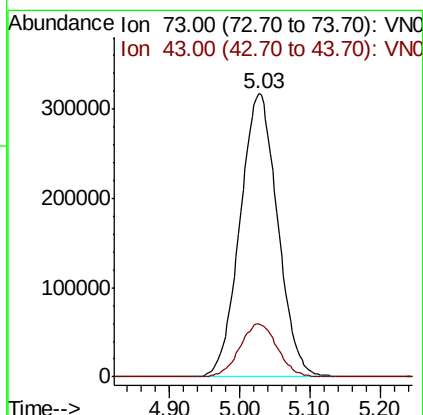
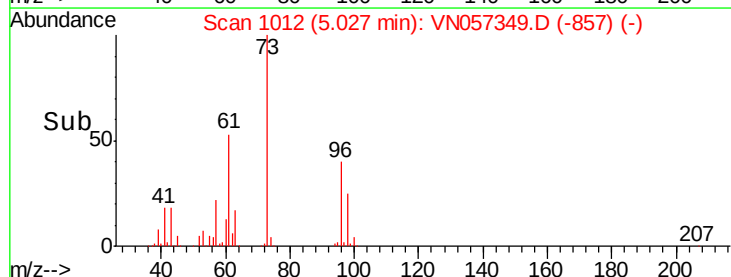
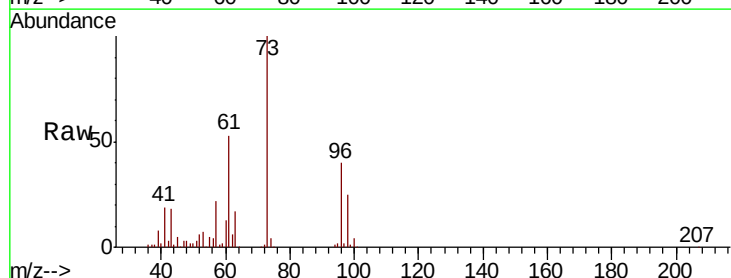
Acq: 16 Aug 2019 12:17

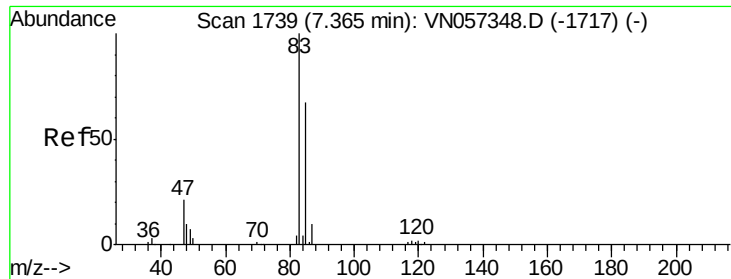
Tgt Ion: 73 Resp: 1178342

Ion Ratio Lower Upper

73 100

43 18.4 15.1 22.7





#25

Chloroform

Concen: 48.787 ug/l

RT: 7.36 min Scan# 1738

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

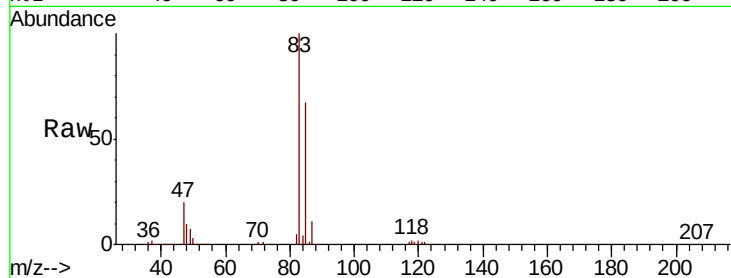
VSTDIC050

Tgt Ion: 83 Resp: 747818

Ion Ratio Lower Upper

83 100

85 66.8 52.6 79.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

7.36

300000

250000

200000

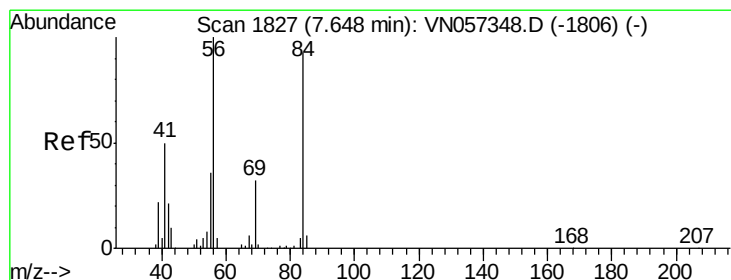
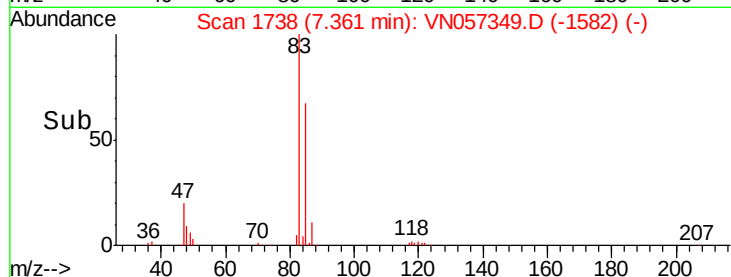
150000

100000

50000

0

Time-->



#26

Cyclohexane

Concen: 48.983 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

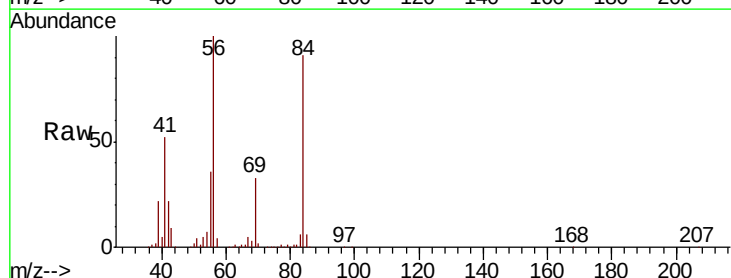
Tgt Ion: 56 Resp: 597128

Ion Ratio Lower Upper

56 100

89 0.0 1.4 2.2#

84 90.3 68.2 102.4



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

400000

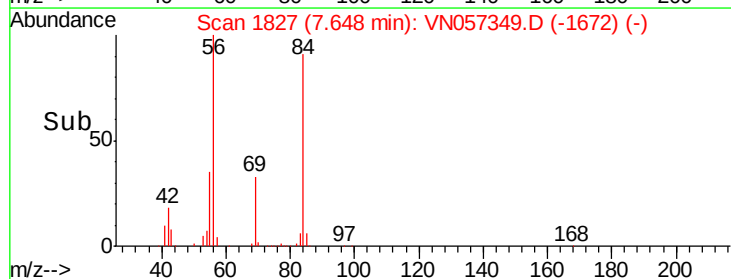
300000

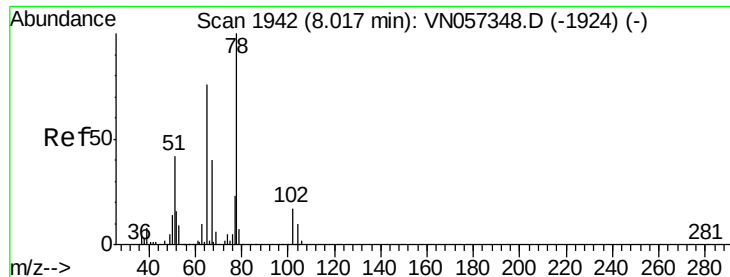
200000

100000

0

Time-->





#27

1,2-Dichloroethane-d4

Concen: 29.944 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

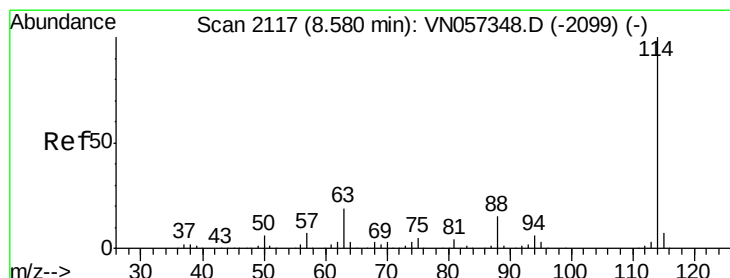
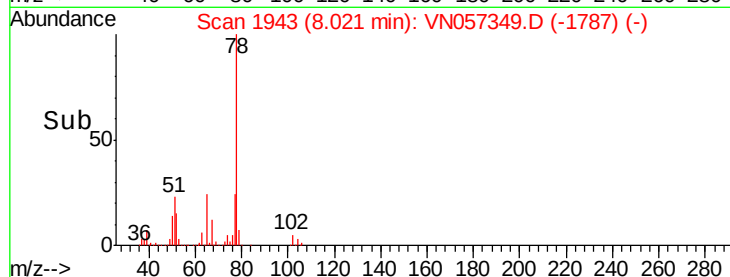
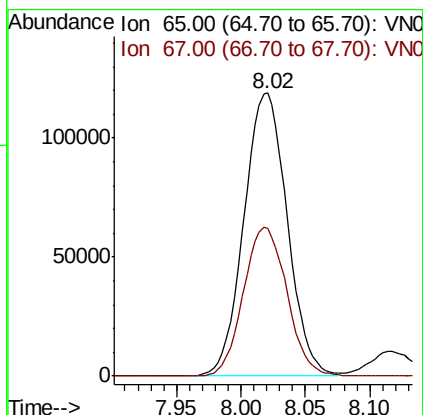
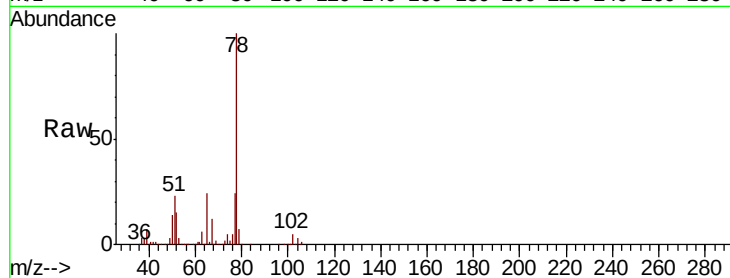
VSTDIC050

Tgt Ion: 65 Resp: 278521

Ion Ratio Lower Upper

65 100

67 52.7 43.4 65.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2117

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

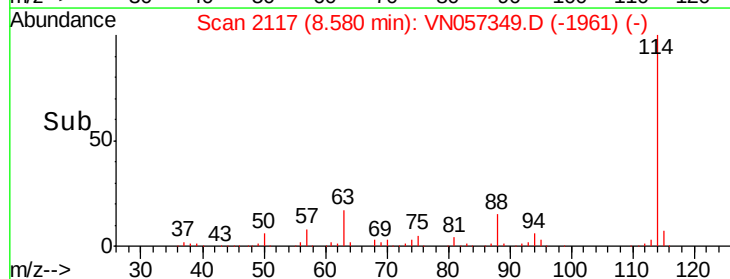
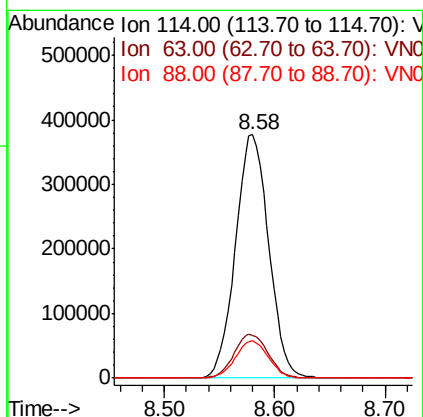
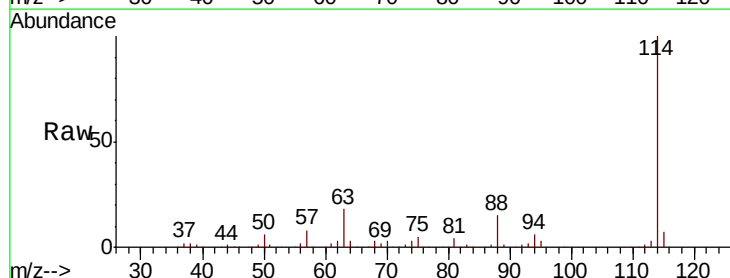
Tgt Ion: 114 Resp: 787003

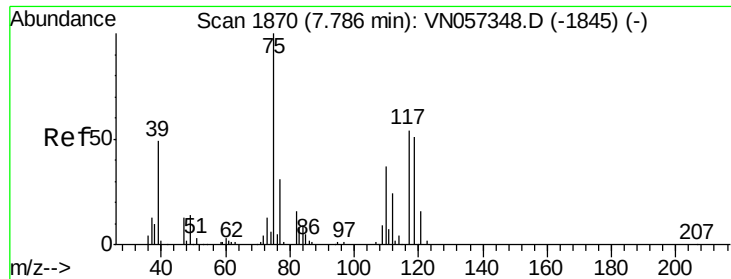
Ion Ratio Lower Upper

114 100

63 18.5 16.2 24.2

88 15.2 12.3 18.5





#29

1,1-Dichloropropene

Concen: 49.588 ug/l

RT: 7.79 min Scan# 1870

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

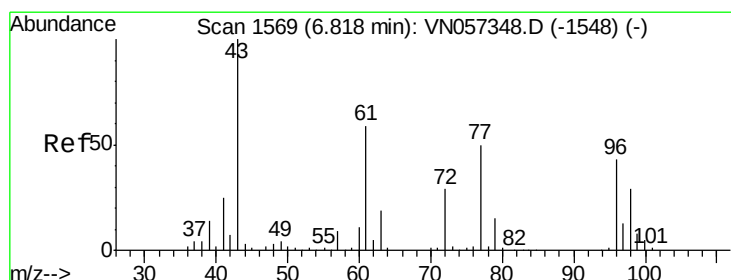
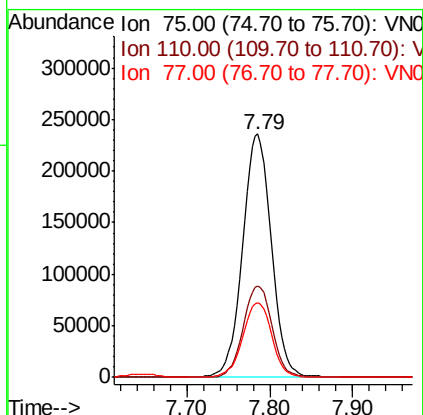
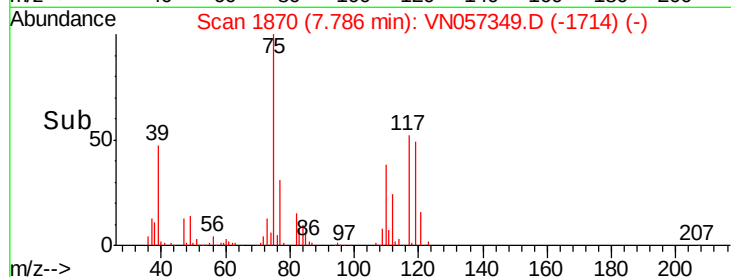
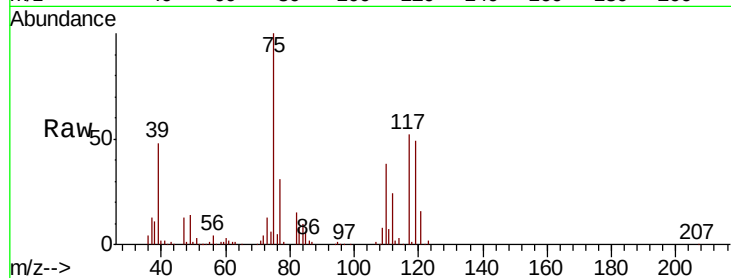
Tgt Ion: 75 Resp: 567692

Ion Ratio Lower Upper

75 100

110 37.6 0.0 72.4

77 31.1 0.0 62.2



#30

2-Butanone

Concen: 245.541 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

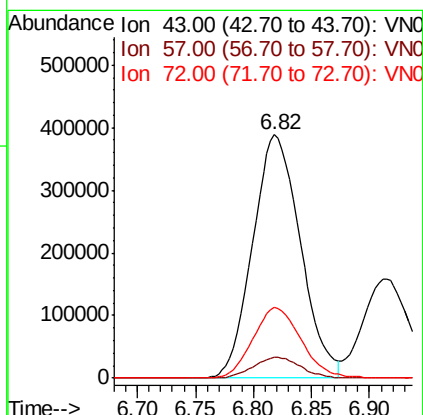
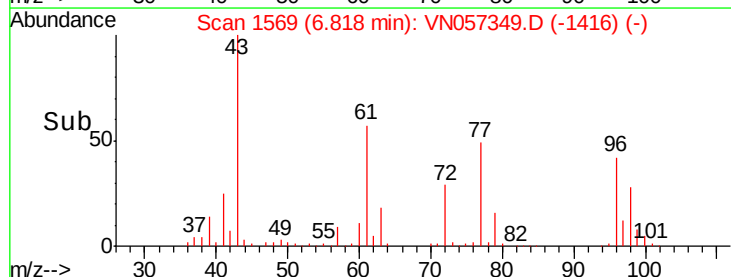
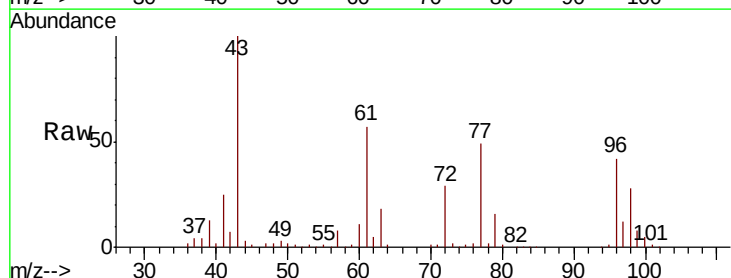
Tgt Ion: 43 Resp: 1109049

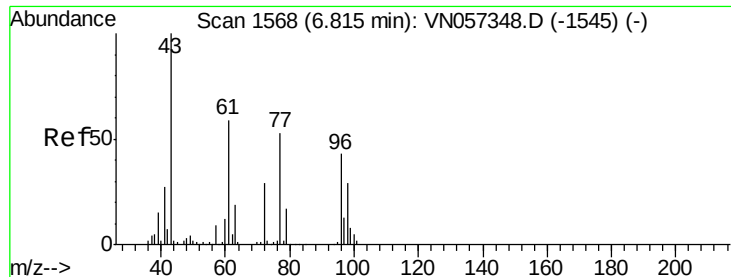
Ion Ratio Lower Upper

43 100

57 8.6 6.6 10.0

72 29.4 21.3 31.9

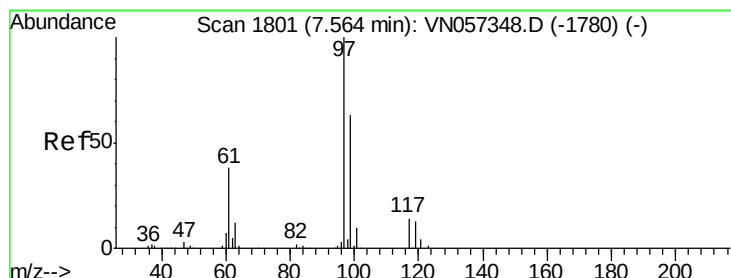
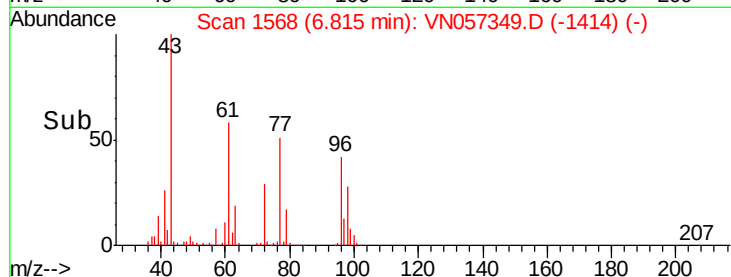
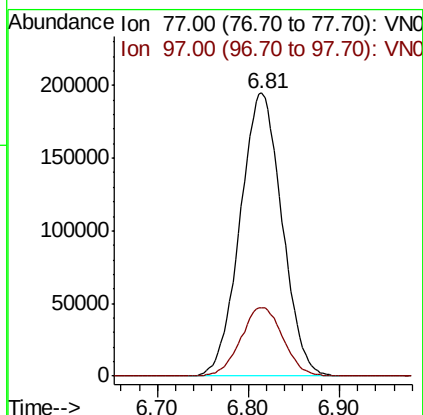
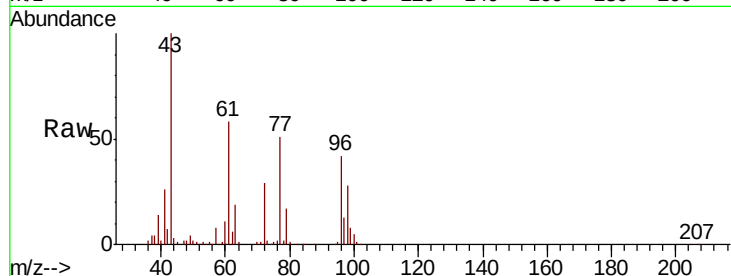




#31
 2,2-Dichloropropane
 Concen: 49.648 ug/l
 RT: 6.81 min Scan# 1568
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

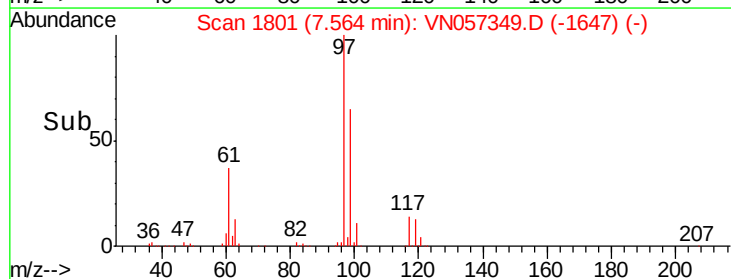
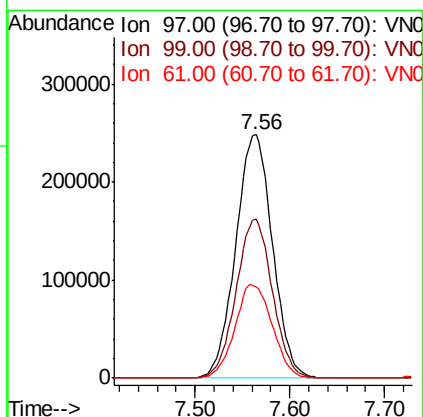
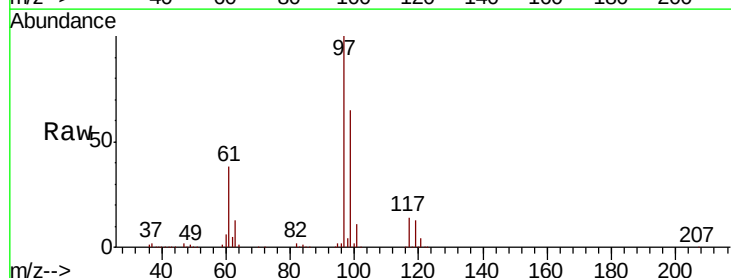
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

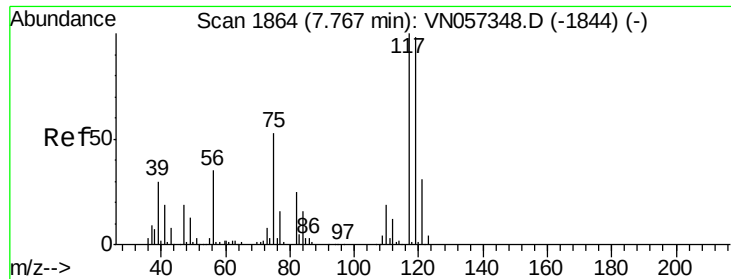
Tgt Ion: 77 Resp: 622631
 Ion Ratio Lower Upper
 77 100
 97 24.5 19.7 29.5



#32
 1,1,1-Trichloroethane
 Concen: 49.539 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

Tgt Ion: 97 Resp: 670456
 Ion Ratio Lower Upper
 97 100
 99 64.6 52.0 78.0
 61 39.1 34.4 51.6





#33

Carbon Tetrachloride

Concen: 50.072 ug/l

RT: 7.77 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

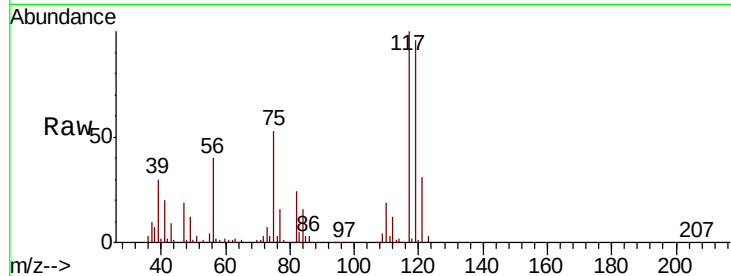
Tgt Ion:117 Resp: 603418

Ion Ratio Lower Upper

117 100

119 95.8 78.7 118.1

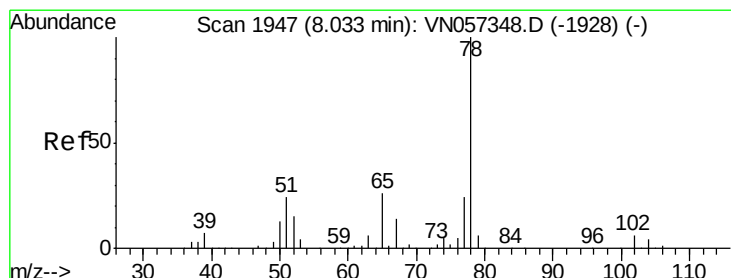
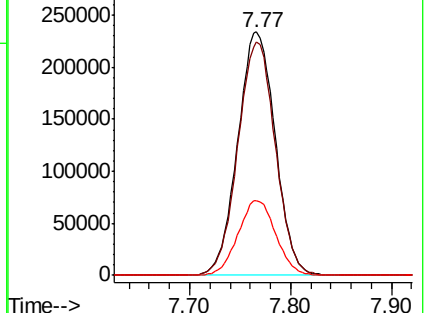
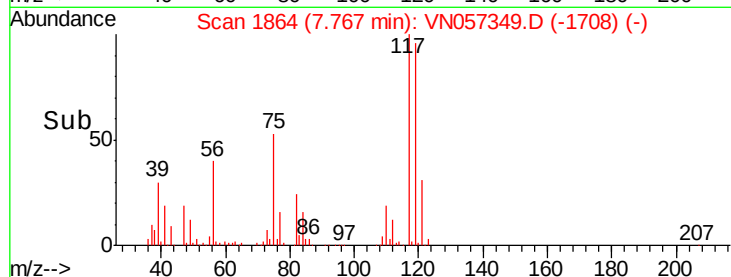
121 30.6 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 49.057 ug/l

RT: 8.03 min Scan# 1947

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

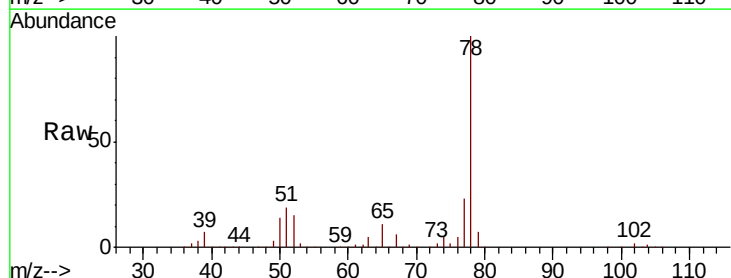
Tgt Ion: 78 Resp: 1703763

Ion Ratio Lower Upper

78 100

77 23.3 19.0 28.4

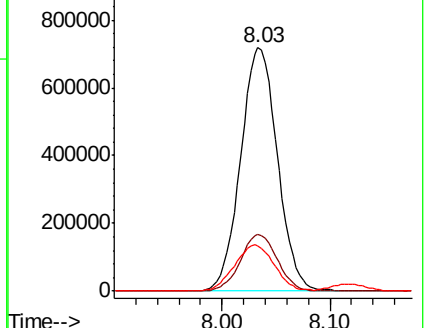
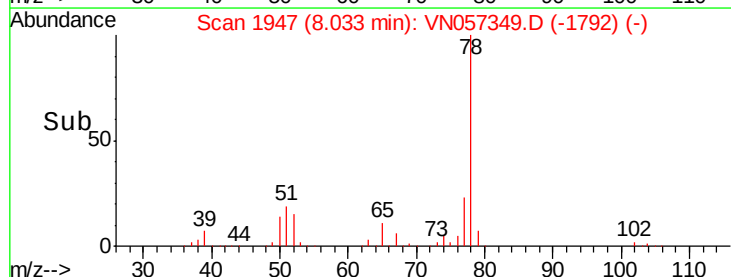
51 18.8 19.7 29.5#

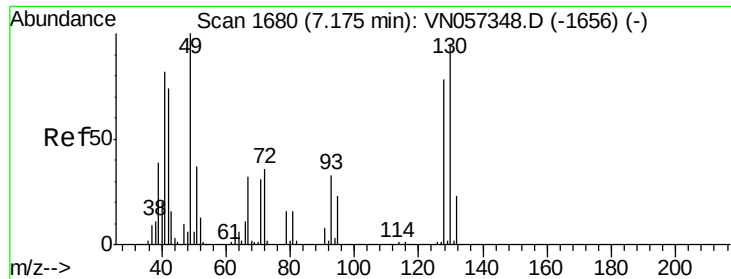


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

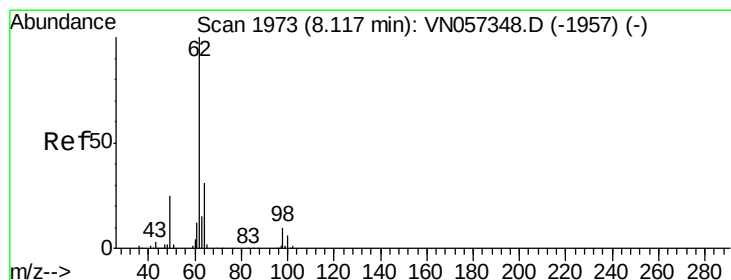
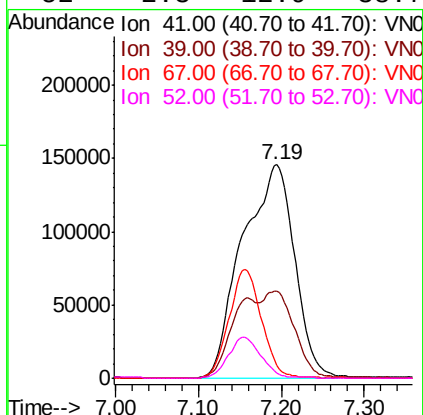
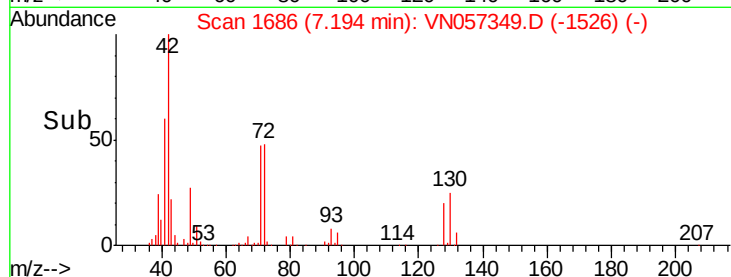
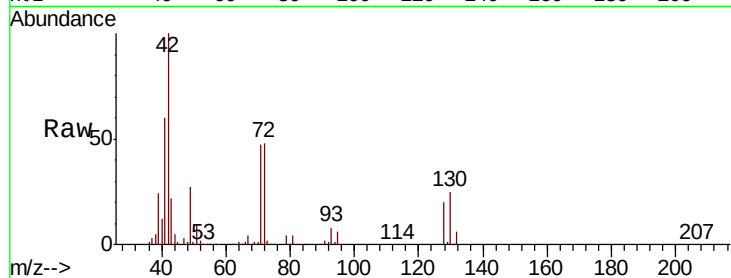




#35
Methacrylonitrile
Concen: 105.078 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.02 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

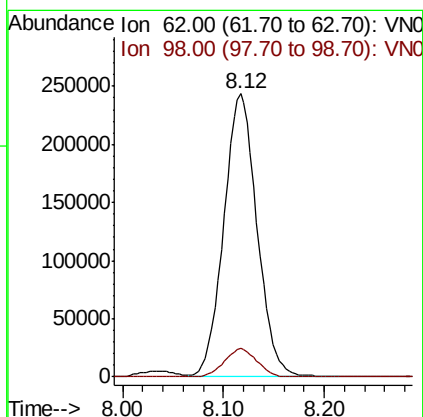
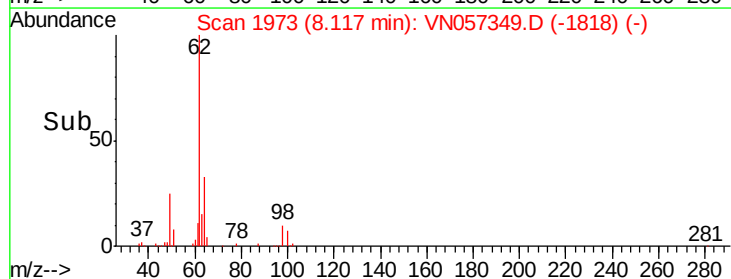
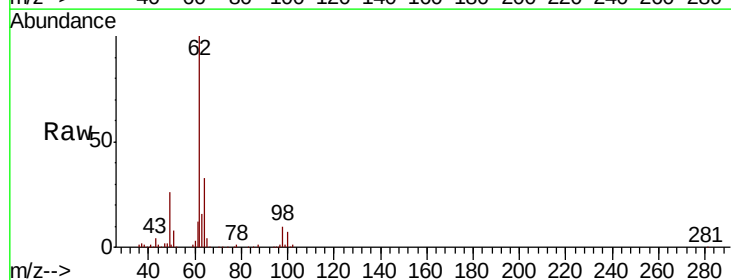
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

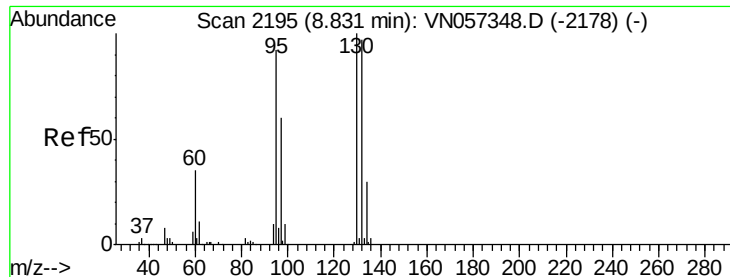
Tgt Ion: 41 Resp: 637568
Ion Ratio Lower Upper
41 100
39 41.0 25.4 76.2
67 6.2 33.6 100.8#
52 2.3 12.9 38.7#



#36
1,2-Dichloroethane
Concen: 49.478 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

Tgt Ion: 62 Resp: 558460
Ion Ratio Lower Upper
62 100
98 9.8 7.7 11.5





#37

Trichloroethene

Concen: 49.042 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

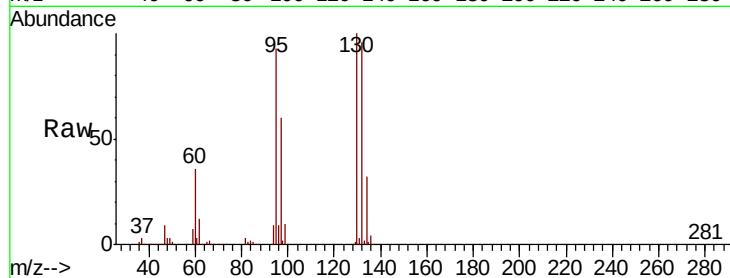
VSTDIC050

Tgt Ion:130 Resp: 495788

Ion Ratio Lower Upper

130 100

95 93.2 78.4 117.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.83

250000

200000

150000

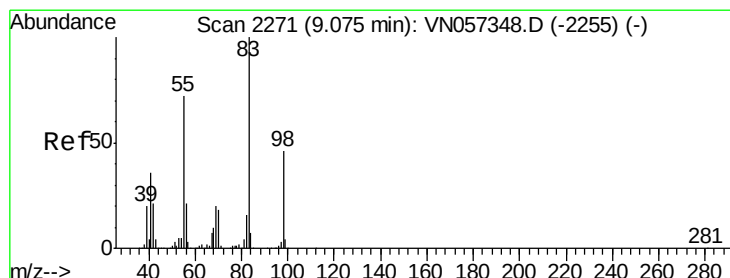
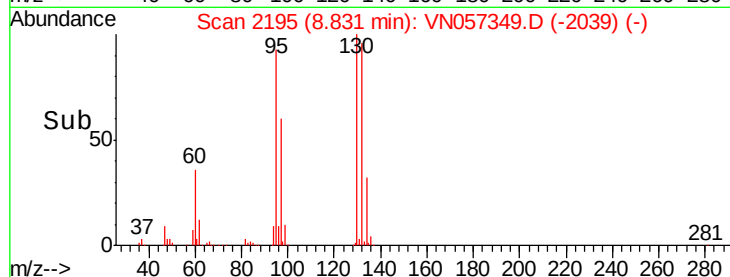
100000

50000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 49.444 ug/l

RT: 9.08 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

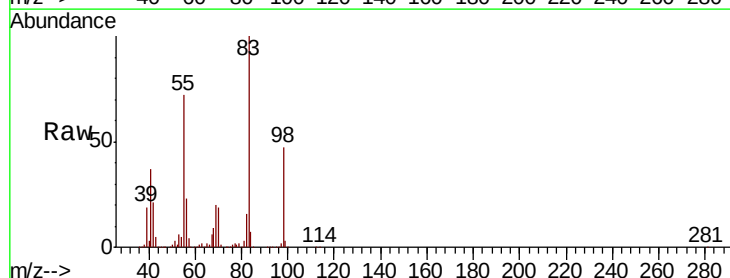
Tgt Ion: 83 Resp: 670358

Ion Ratio Lower Upper

83 100

55 72.2 38.4 115.2

98 46.8 23.3 69.9



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

400000

300000

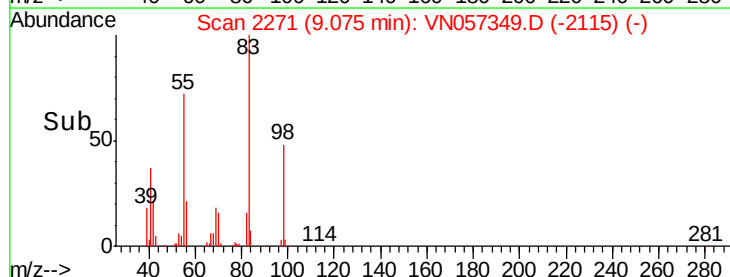
200000

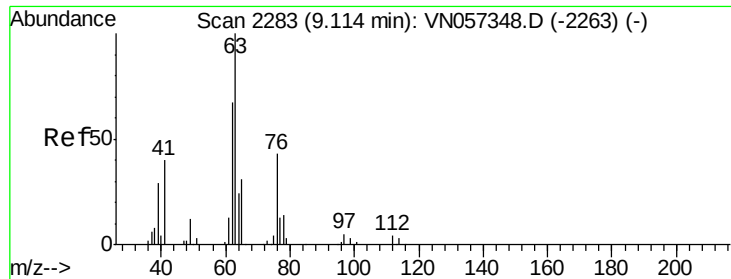
100000

0

9.00 9.05 9.10 9.15

Time-->





#39

1,2-Dichloropropane

Concen: 50.080 ug/l

RT: 9.11 min Scan# 2283

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

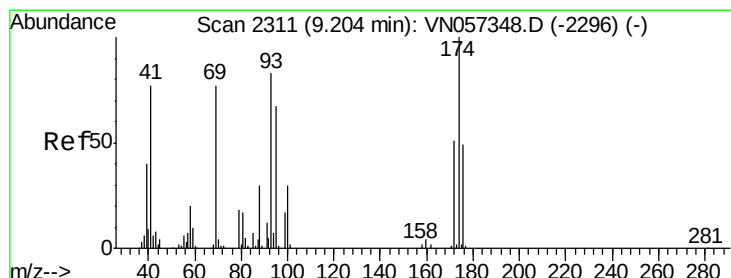
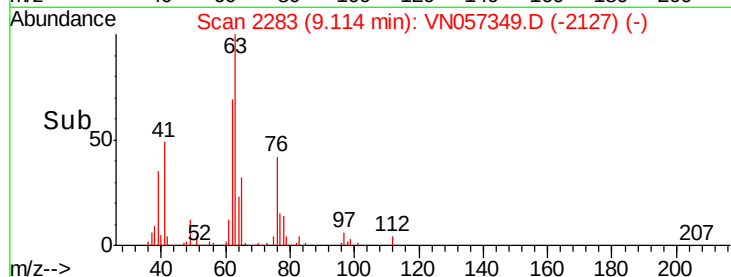
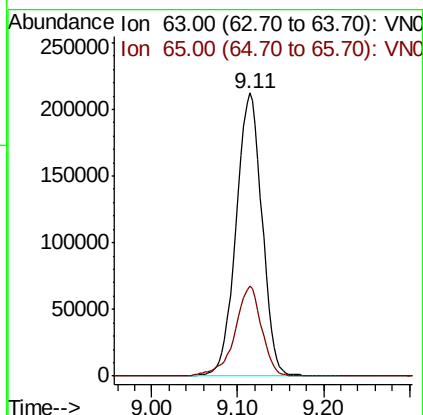
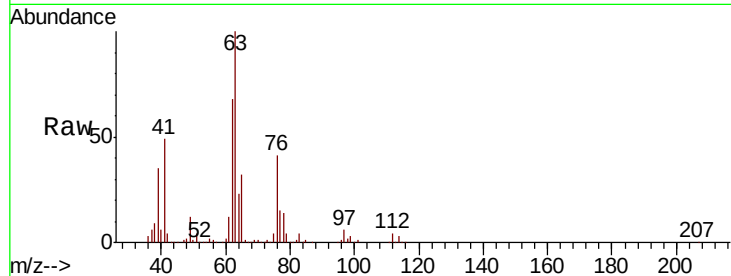
VSTDIC050

Tgt Ion: 63 Resp: 444542

Ion Ratio Lower Upper

63 100

65 31.6 24.6 36.8



#40

Dibromomethane

Concen: 48.977 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

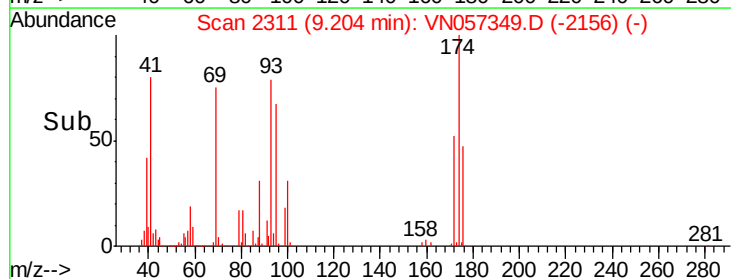
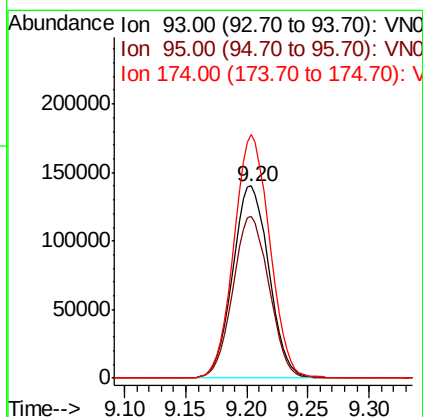
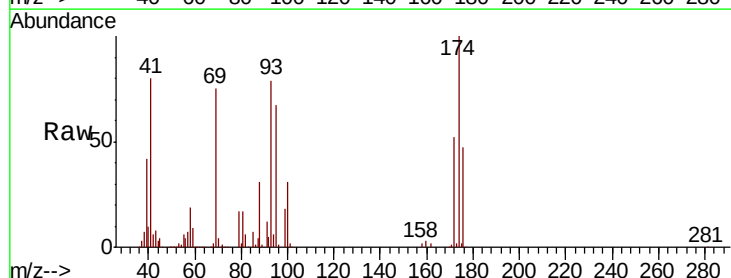
Tgt Ion: 93 Resp: 289218

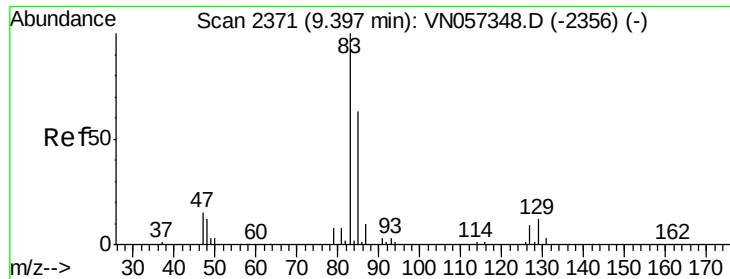
Ion Ratio Lower Upper

93 100

95 83.9 0.0 167.0

174 124.8 0.0 224.2





#41

Bromodichloromethane

Concen: 49.590 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

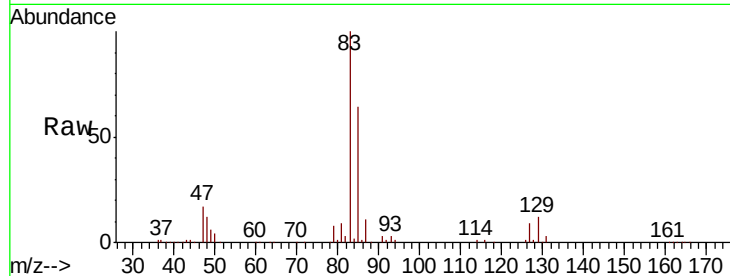
Tgt Ion: 83 Resp: 593368

Ion Ratio Lower Upper

83 100

85 63.7 50.1 75.1

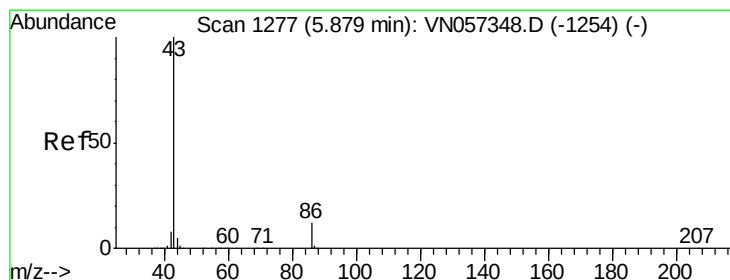
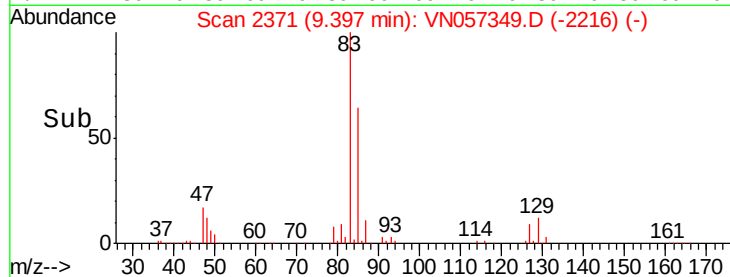
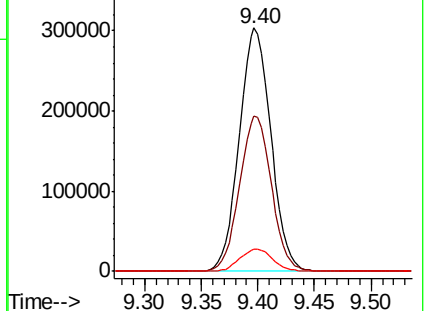
127 9.1 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VN057348.D (-2356) (-)

Ion 85.00 (84.70 to 85.70): VN057348.D (-2356) (-)

Ion 127.00 (126.70 to 127.70): VN057348.D (-2356) (-)



#42

Vinyl Acetate

Concen: 248.844 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VN057349.D

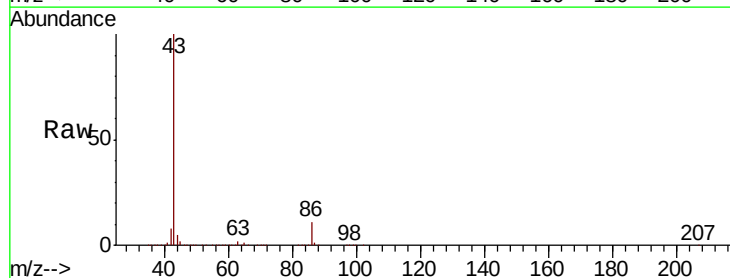
Acq: 16 Aug 2019 12:17

Tgt Ion: 43 Resp: 4729332

Ion Ratio Lower Upper

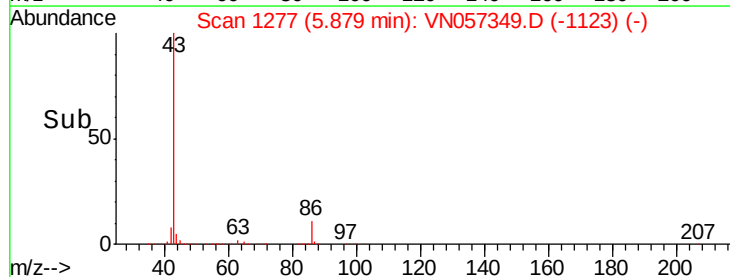
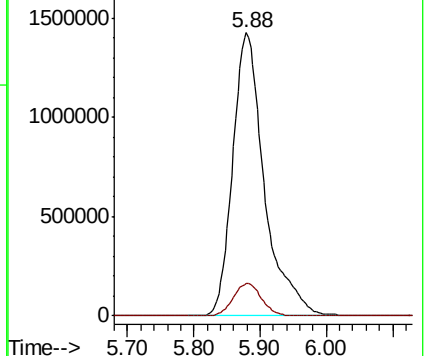
43 100

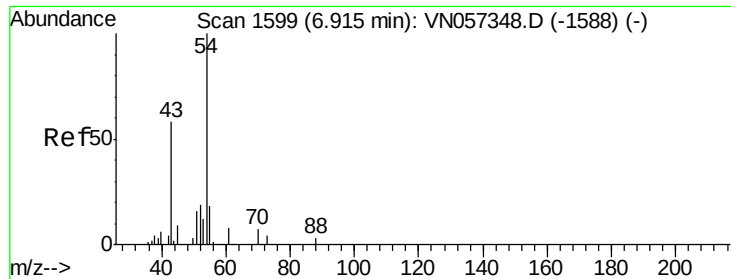
86 10.4 7.4 11.2



Abundance Ion 43.00 (42.70 to 43.70): VN057348.D (-1254) (-)

Ion 86.00 (85.70 to 86.70): VN057348.D (-1254) (-)





#43

Ethyl Acetate

Concen: 48.892 ug/l

RT: 6.91 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

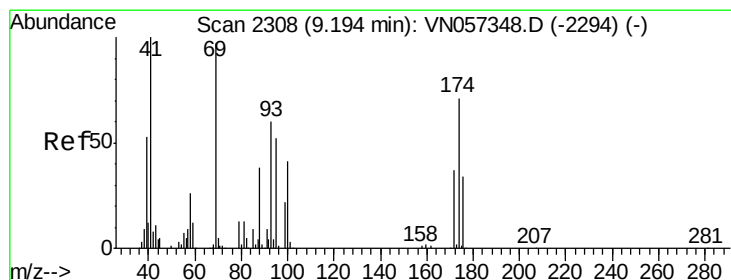
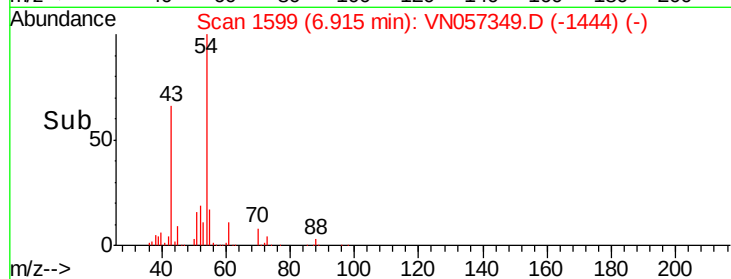
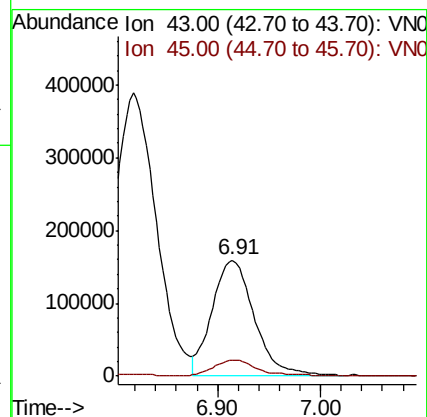
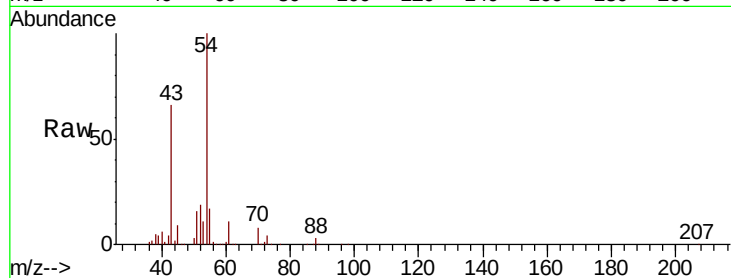
VSTDIC050

Tgt Ion: 43 Resp: 453088

Ion Ratio Lower Upper

43 100

45 14.6 11.2 16.8



#45

1,4-Dioxane

Concen: 993.931 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

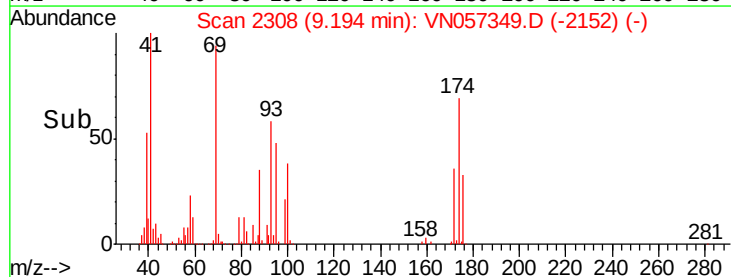
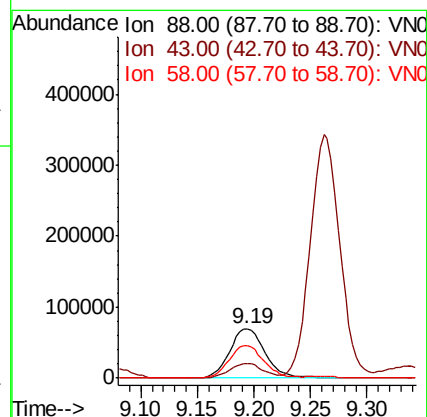
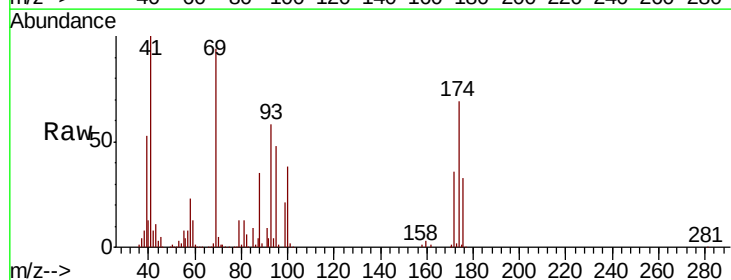
Tgt Ion: 88 Resp: 152789

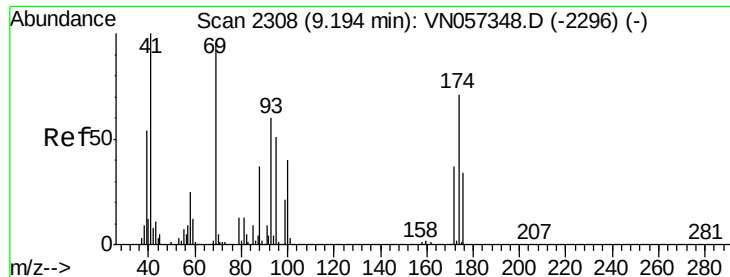
Ion Ratio Lower Upper

88 100

43 27.1 23.0 34.6

58 64.2 54.6 81.8

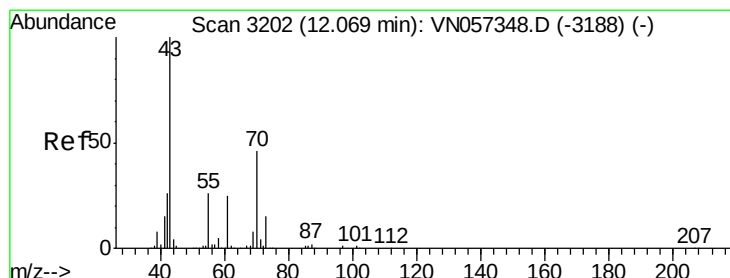
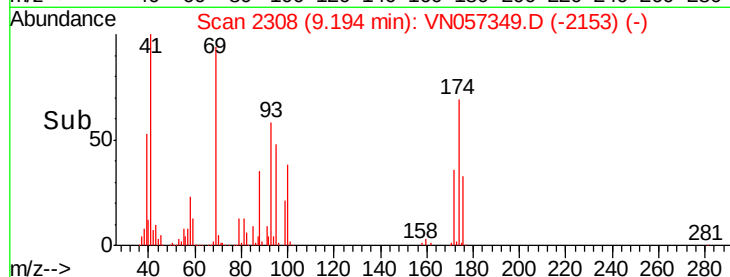
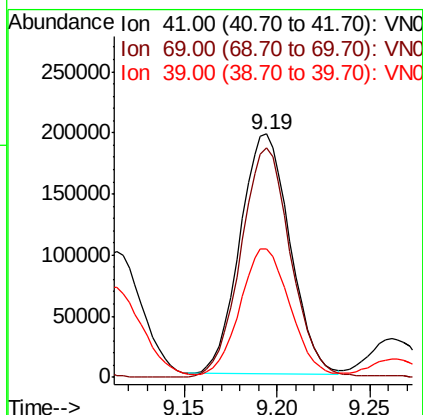
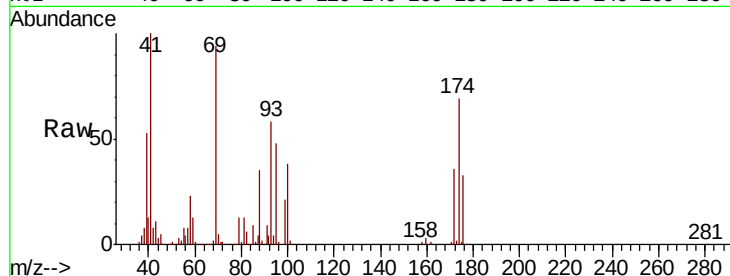




#46
Methyl methacrylate
Concen: 50.464 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

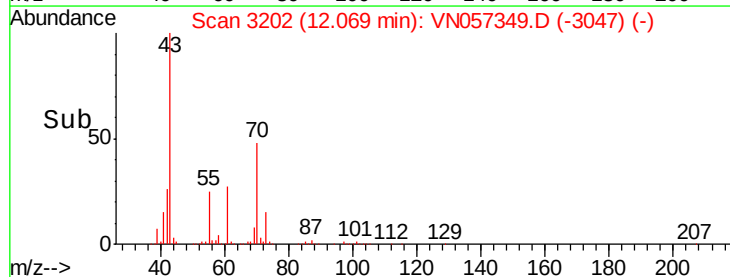
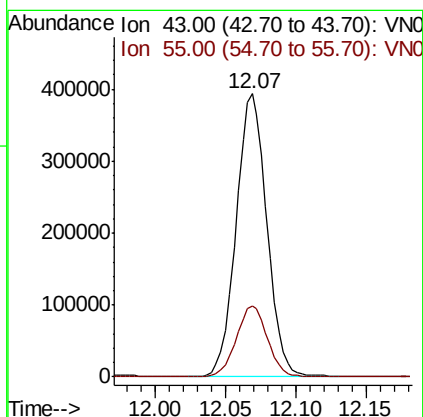
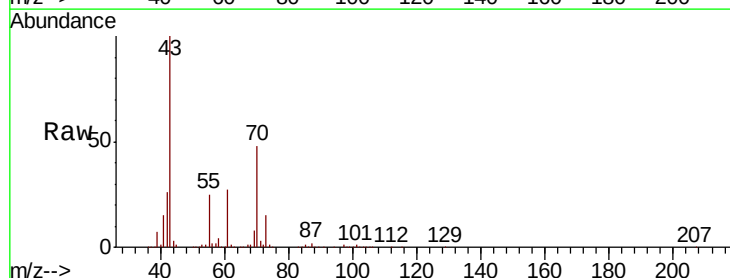
Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

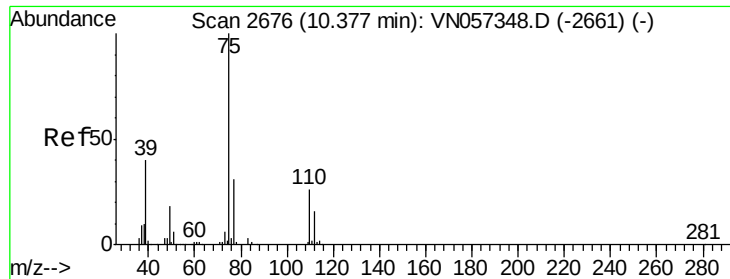
Tgt Ion: 41 Resp: 369015
Ion Ratio Lower Upper
41 100
69 95.5 43.0 129.0
39 52.3 25.1 75.4



#47
n-amyl Acetate
Concen: 49.752 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

Tgt Ion: 43 Resp: 599479
Ion Ratio Lower Upper
43 100
55 25.5 20.7 31.1





#48

t-1,3-Dichloropropene

Concen: 49.681 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

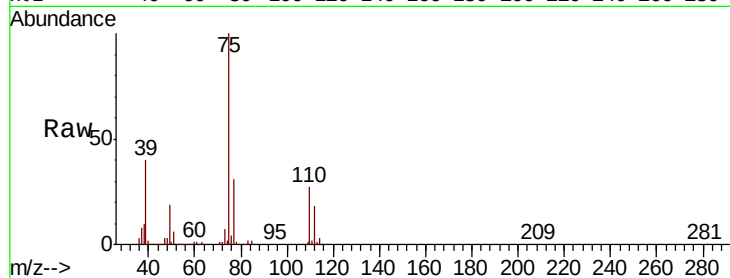
VSTDIC050

Tgt Ion: 75 Resp: 643129

Ion Ratio Lower Upper

75 100

77 31.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

400000

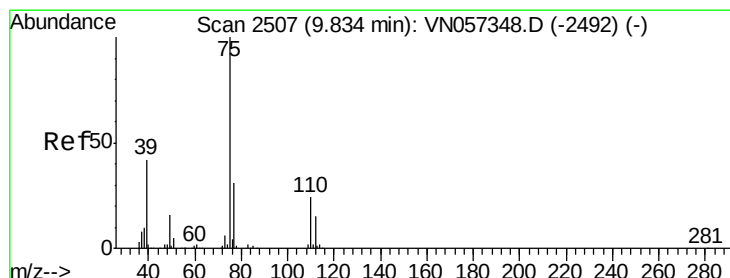
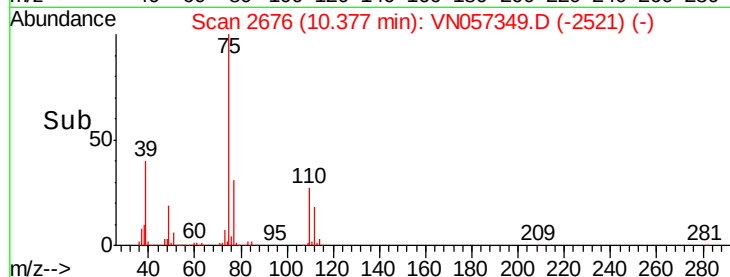
300000

200000

100000

0

Time--> 10.30 10.40 10.50



#49

cis-1,3-Dichloropropene

Concen: 49.902 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

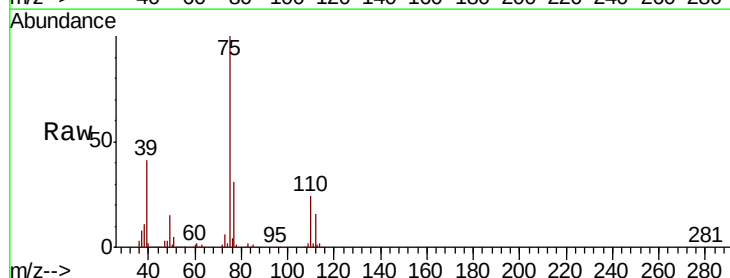
Tgt Ion: 75 Resp: 719222

Ion Ratio Lower Upper

75 100

77 30.9 26.0 39.0

39 41.1 36.2 54.4



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.83

500000

400000

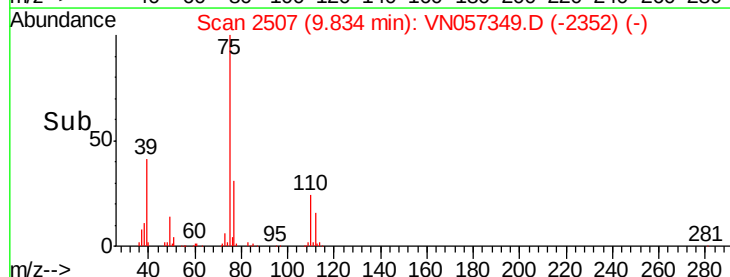
300000

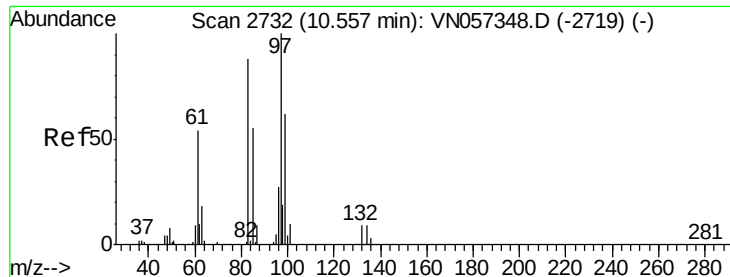
200000

100000

0

Time--> 9.80 9.90

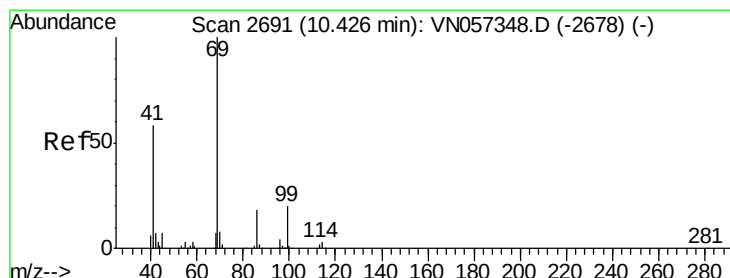
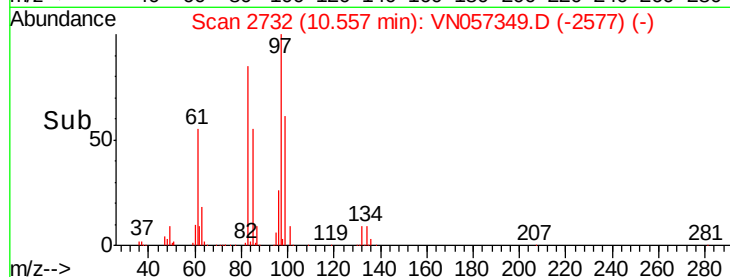
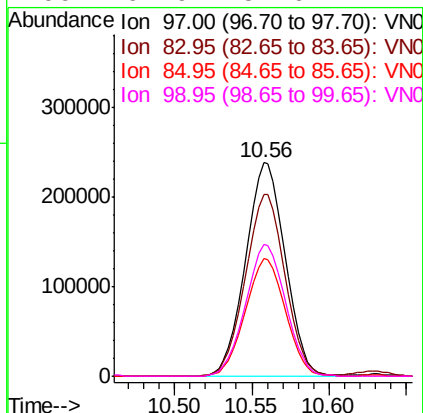
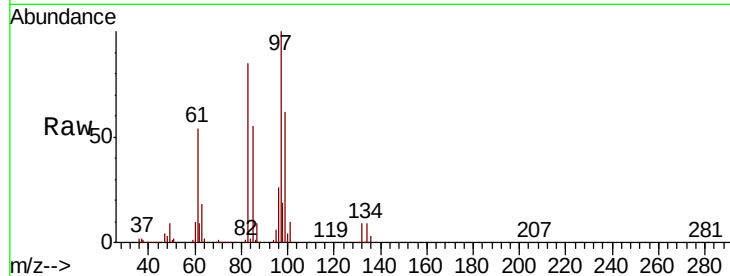




#50
 1,1,2-Trichloroethane
 Concen: 49.213 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

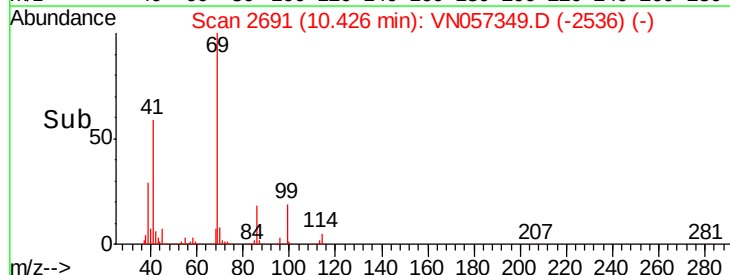
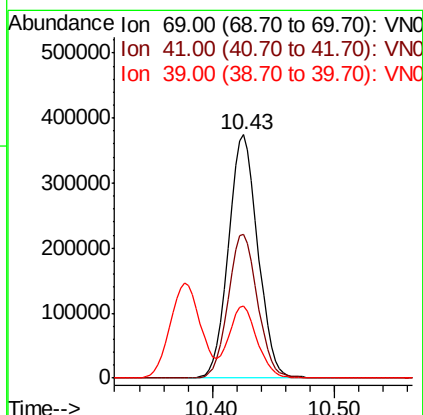
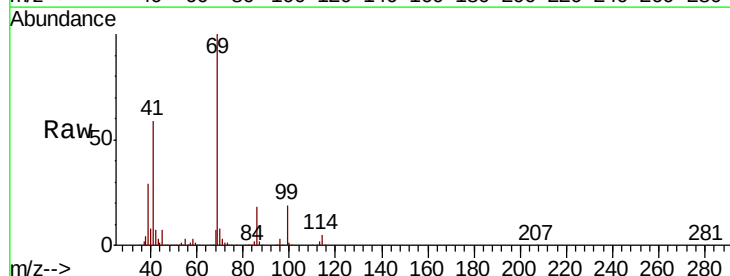
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

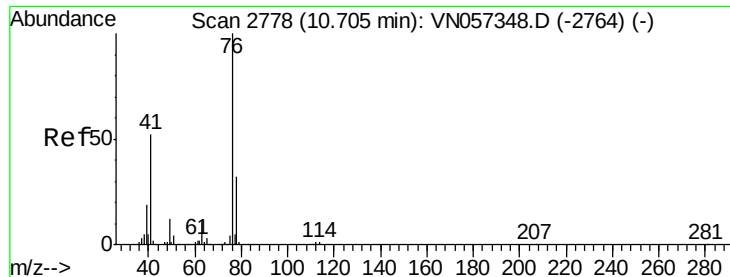
Tgt Ion:	97	Resp:	424122
Ion	Ratio	Lower	Upper
97	100		
83	85.2	69.2	103.8
85	54.9	45.3	67.9
99	61.9	51.6	77.4



#51
 Ethyl methacrylate
 Concen: 50.267 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

Tgt Ion:	69	Resp:	627997
Ion	Ratio	Lower	Upper
69	100		
41	59.0	32.8	98.3
39	29.4	15.4	46.2





#52

1,3-Dichloropropane

Concen: 49.431 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

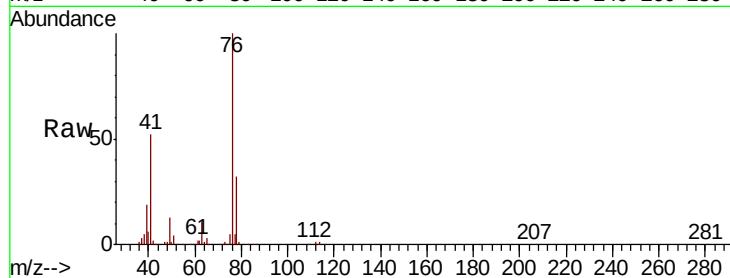
VSTDIC050

Tgt Ion: 76 Resp: 695736

Ion Ratio Lower Upper

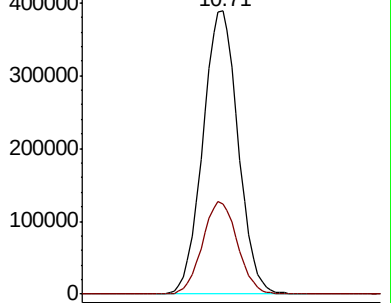
76 100

78 32.6 0.0 63.6

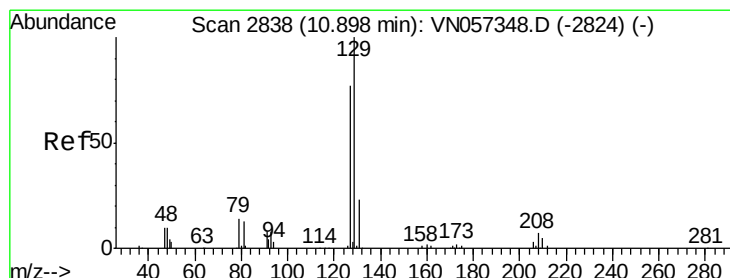
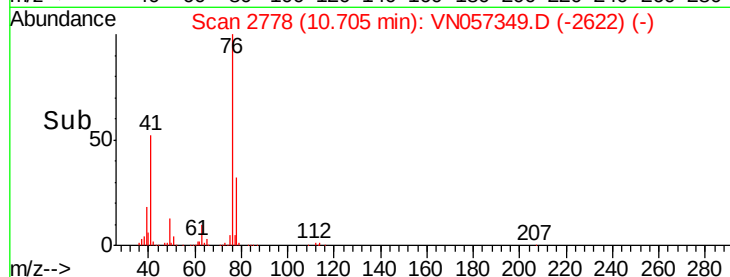


Abundance Ion 76.00 (75.70 to 76.70): VN057349.D (-2764) (-)

Ion 78.00 (77.70 to 78.70): VN057349.D (-2764) (-)



Time-->



#53

Dibromochloromethane

Concen: 50.044 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN057349.D

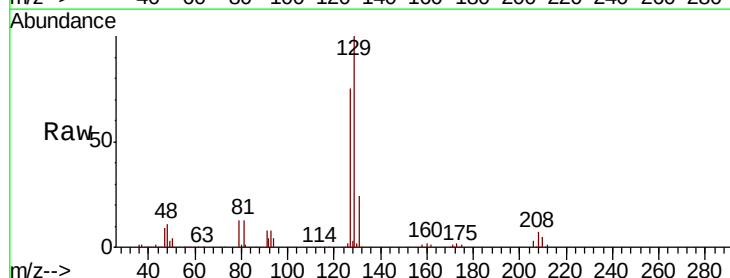
Acq: 16 Aug 2019 12:17

Tgt Ion: 129 Resp: 496189

Ion Ratio Lower Upper

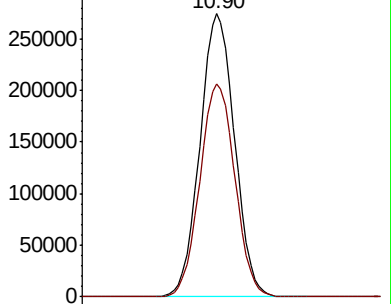
129 100

127 76.3 38.7 116.1

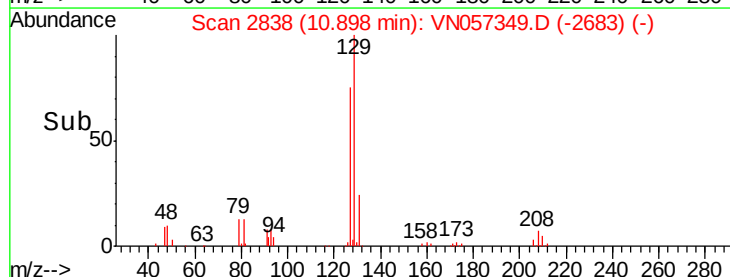


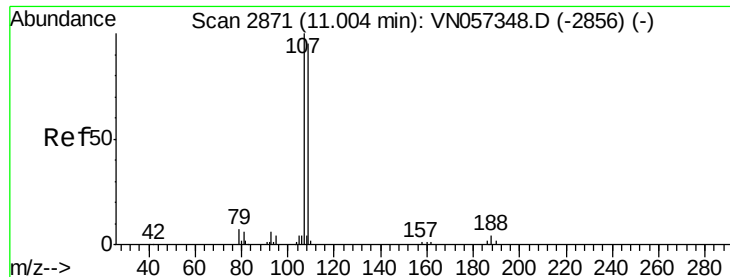
Abundance Ion 129.00 (128.70 to 129.70): VN057349.D (-2683) (-)

Ion 127.00 (126.70 to 127.70): VN057349.D (-2683) (-)



Time-->

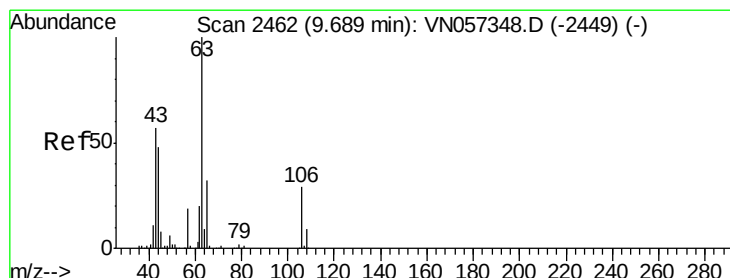
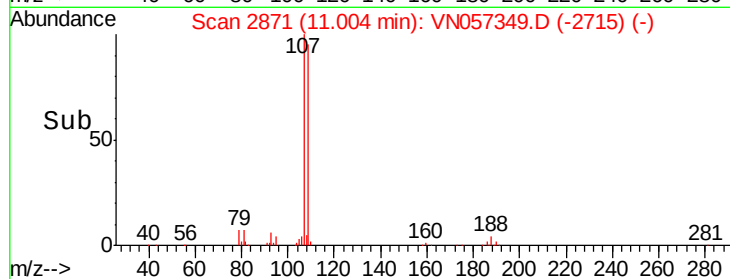
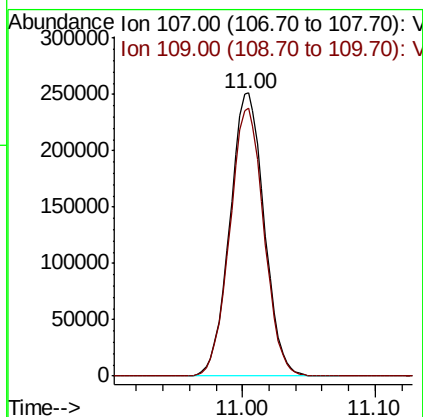
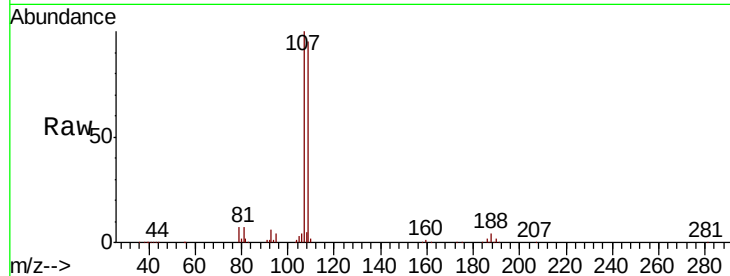




#54
 1,2-Dibromoethane
 Concen: 49.675 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

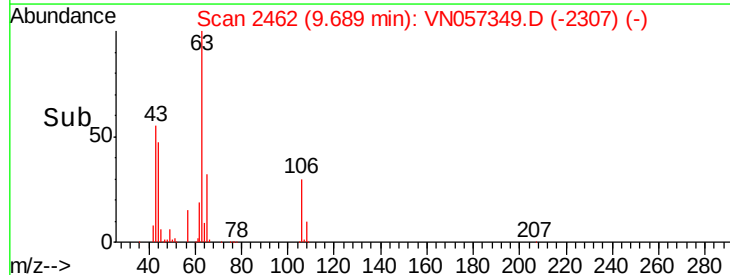
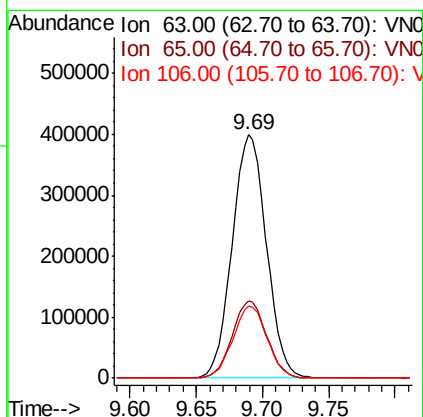
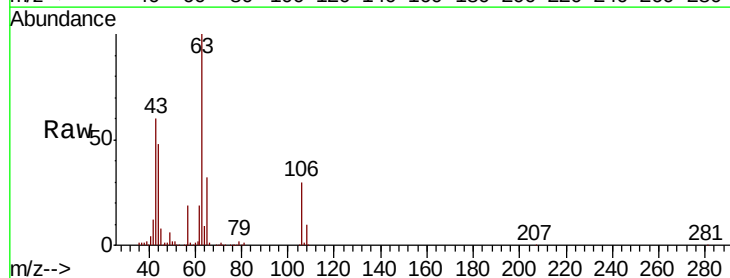
Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC050

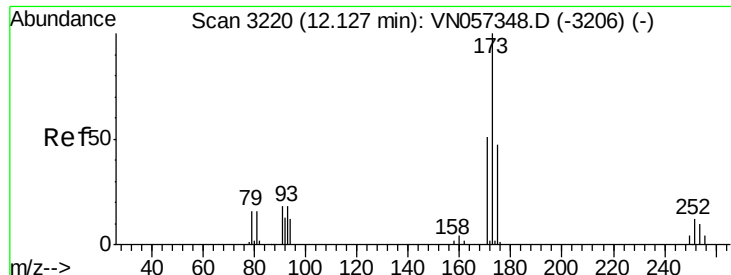
Tgt Ion:107 Resp: 450870
 Ion Ratio Lower Upper
 107 100
 109 94.2 77.9 116.9



#55
 2-Chloroethyl vinyl ether
 Concen: 246.537 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

Tgt Ion: 63 Resp: 716970
 Ion Ratio Lower Upper
 63 100
 65 31.7 25.2 37.8
 106 29.7 21.6 32.4

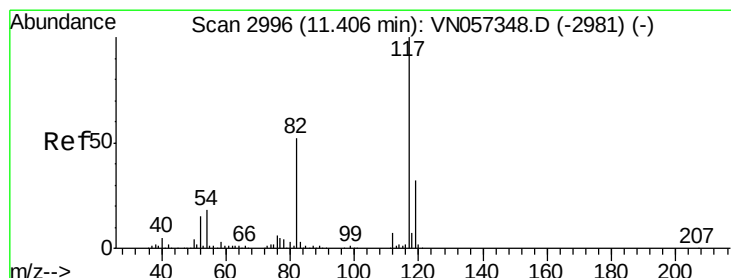
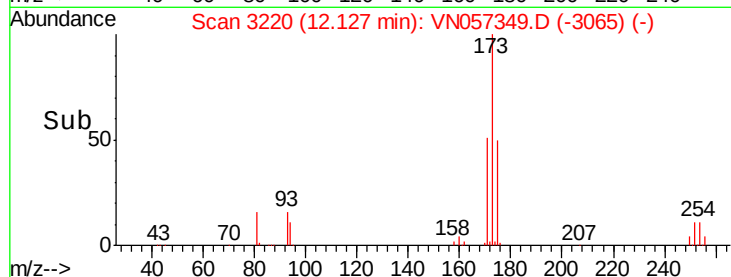
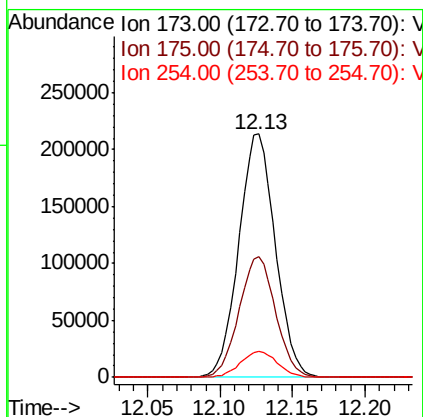
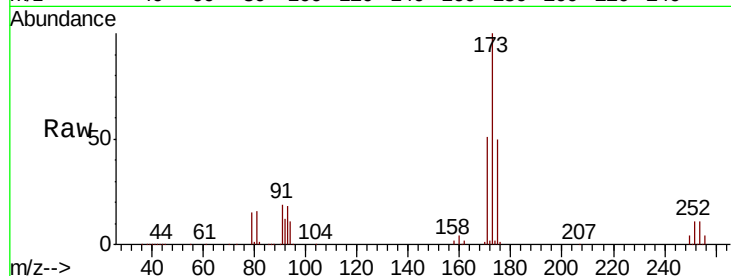




#56
Bromoform
Concen: 49.975 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

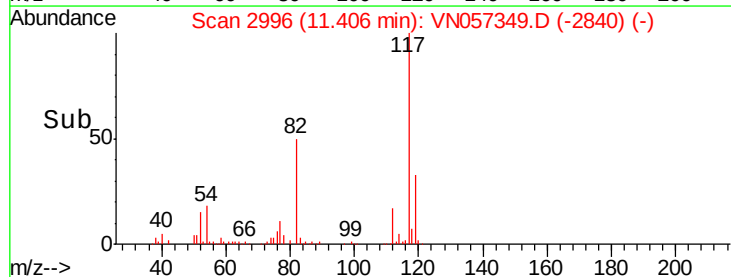
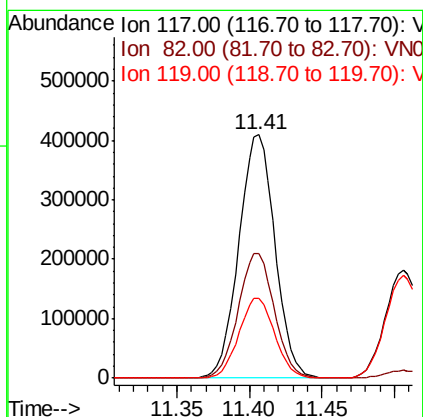
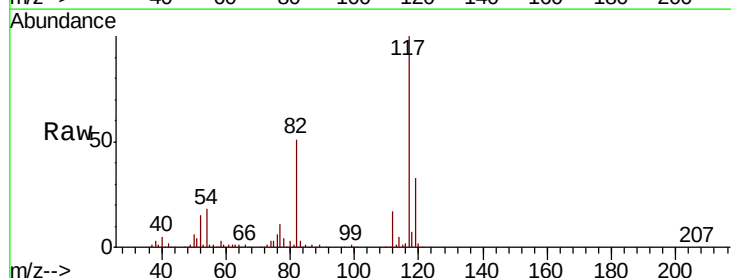
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

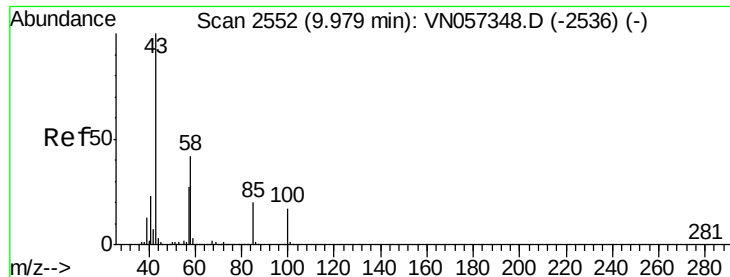
Tgt Ion:173 Resp: 374161
Ion Ratio Lower Upper
173 100
175 49.5 39.7 59.5
254 10.7 7.8 11.8



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

Tgt Ion:117 Resp: 708785
Ion Ratio Lower Upper
117 100
82 51.2 43.0 64.4
119 32.6 26.0 39.0





#58

4-Methyl-2-Pentanone

Concen: 243.938 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

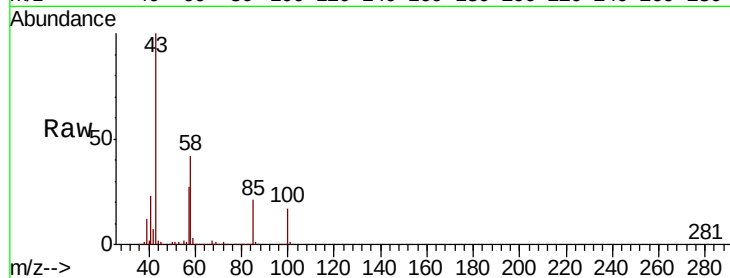
Tgt Ion: 43 Resp: 2252332

Ion Ratio Lower Upper

43 100

58 41.6 31.9 47.9

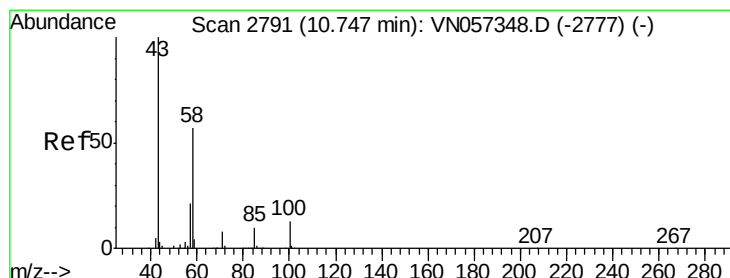
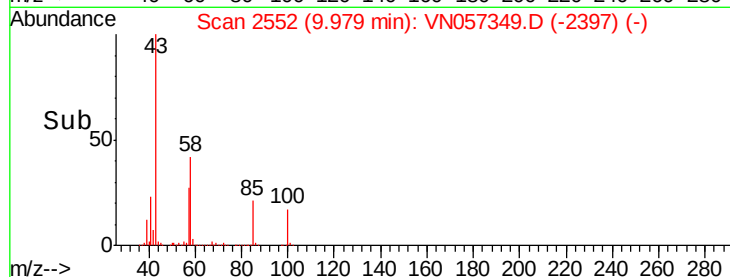
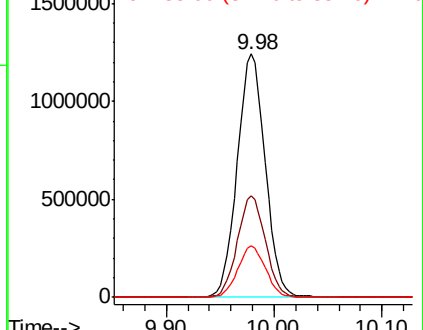
85 20.8 14.2 21.4



Abundance Ion 43.00 (42.70 to 43.70): VN057348.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN057348.D (-2536) (-)

Ion 85.00 (84.70 to 85.70): VN057348.D (-2536) (-)



#59

2-Hexanone

Concen: 243.153 ug/l

RT: 10.75 min Scan# 2791

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

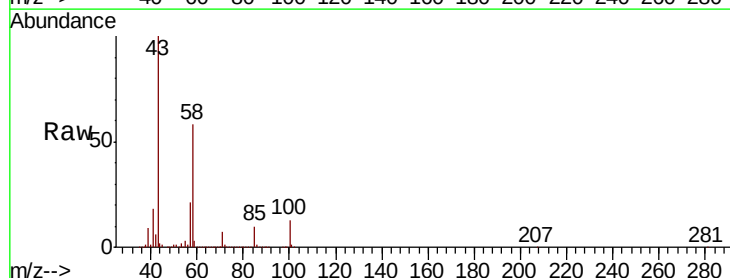
Tgt Ion: 43 Resp: 1610272

Ion Ratio Lower Upper

43 100

58 58.2 44.4 66.6

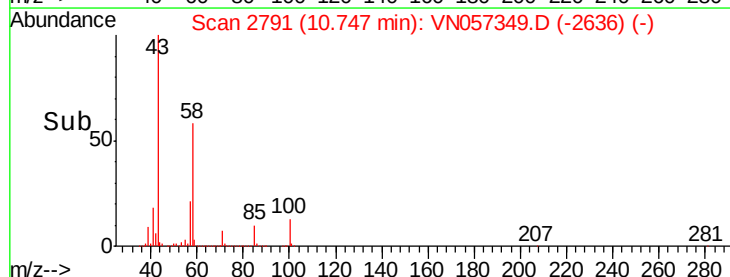
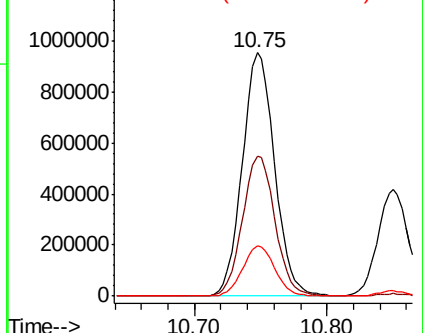
57 20.7 15.2 22.8

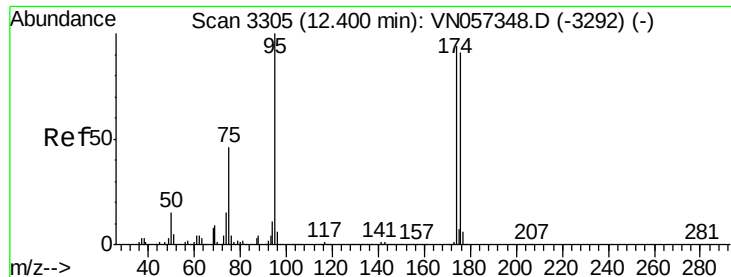


Abundance Ion 43.00 (42.70 to 43.70): VN057348.D (-2777) (-)

Ion 58.00 (57.70 to 58.70): VN057348.D (-2777) (-)

Ion 57.00 (56.70 to 57.70): VN057348.D (-2777) (-)

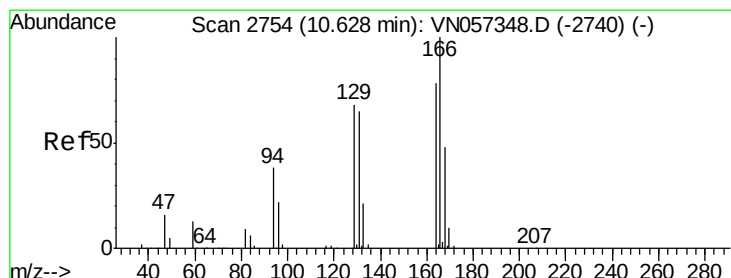
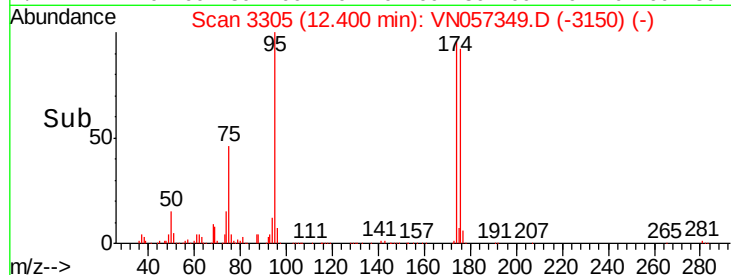
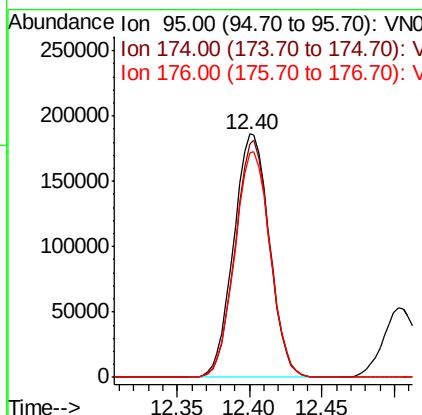
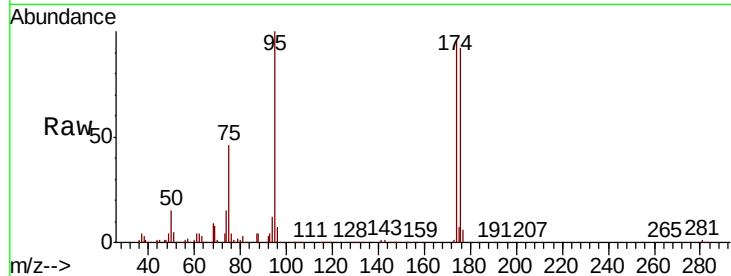




#60
4-Bromofluorobenzene
Concen: 30.516 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

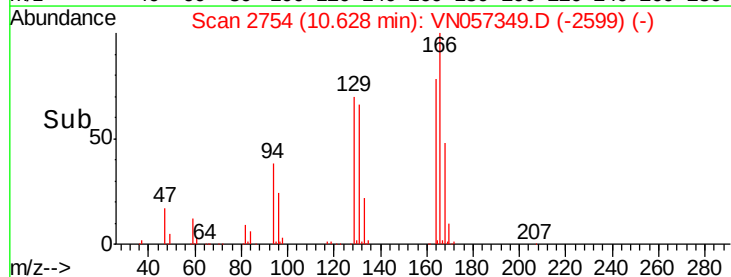
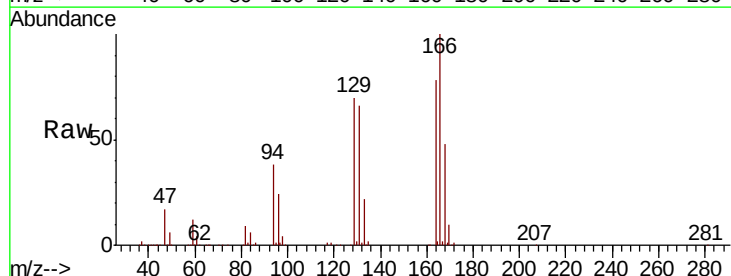
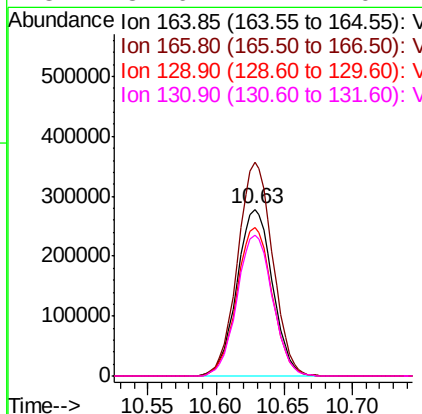
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

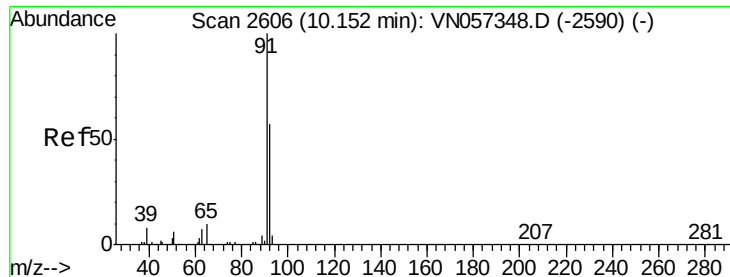
Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.8	72.6	108.8
176	91.9	71.0	106.6



#61
Tetrachloroethene
Concen: 48.539 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	102.3	153.5
129	89.3	72.6	108.8
131	84.6	71.4	107.2





#62

Toluene

Concen: 48.841 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

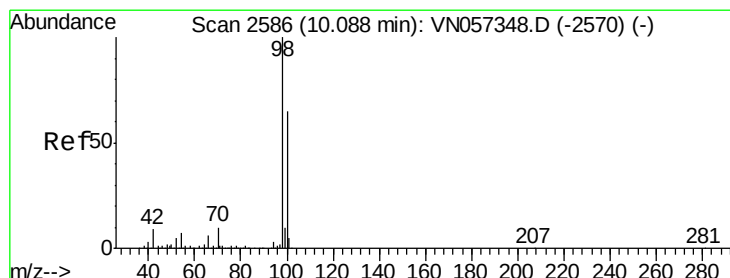
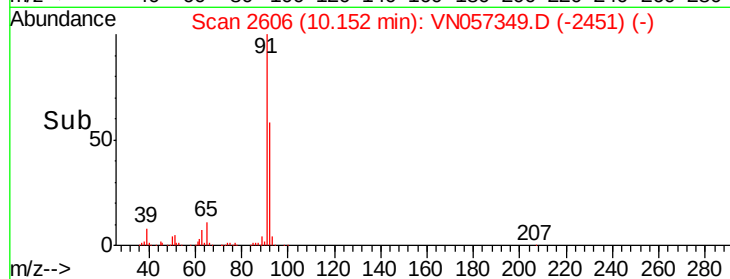
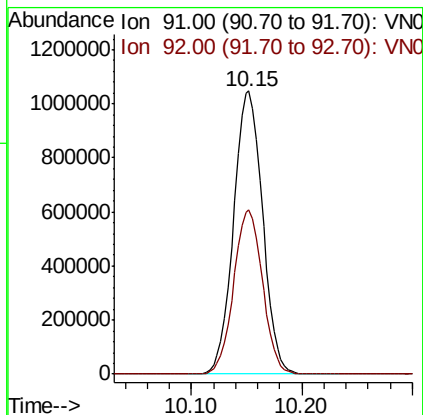
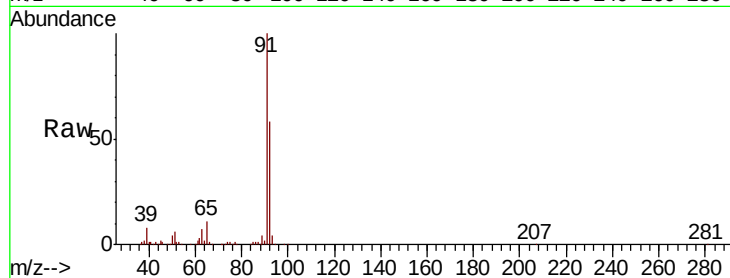
VSTDIC050

Tgt Ion: 91 Resp: 1909394

Ion Ratio Lower Upper

91 100

92 57.7 46.7 70.1



#63

Toluene-d8

Concen: 29.902 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057349.D

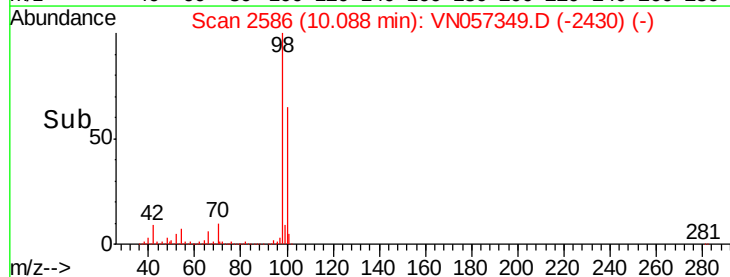
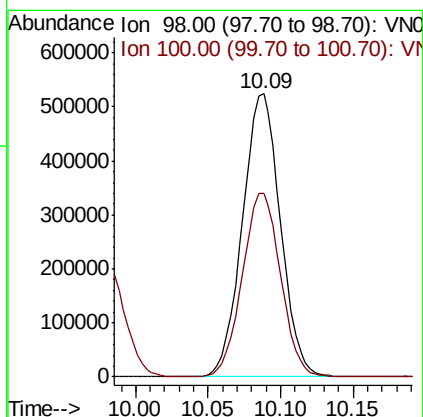
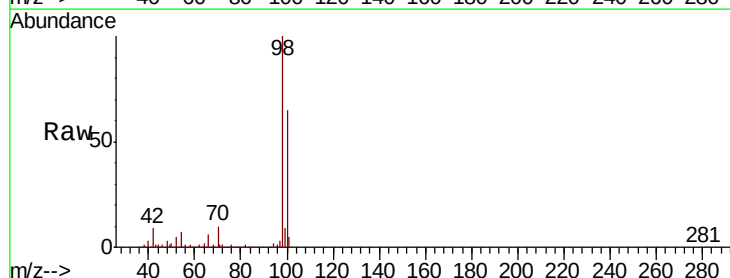
Acq: 16 Aug 2019 12:17

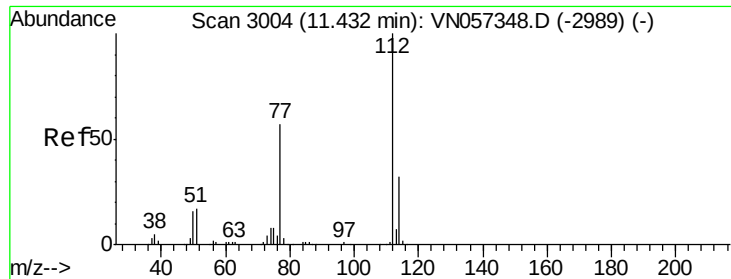
Tgt Ion: 98 Resp: 955959

Ion Ratio Lower Upper

98 100

100 65.3 51.1 76.7

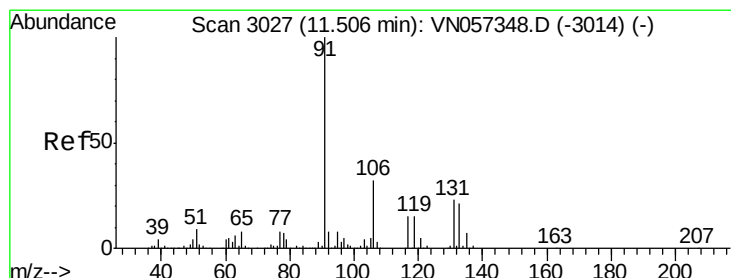
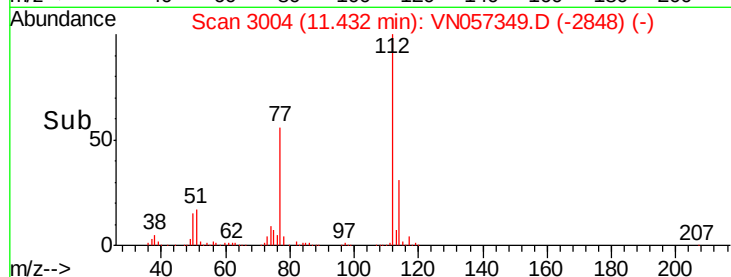
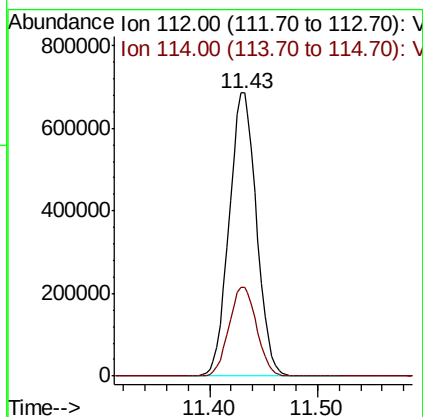
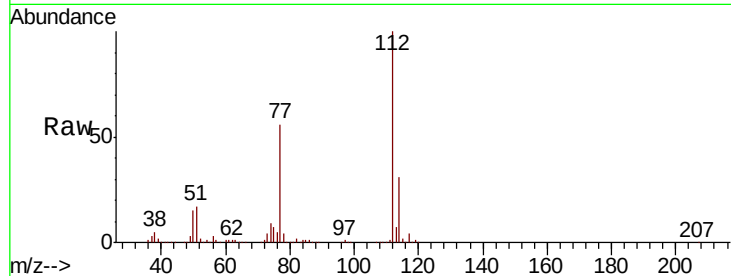




#64
Chlorobenzene
Concen: 49.328 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

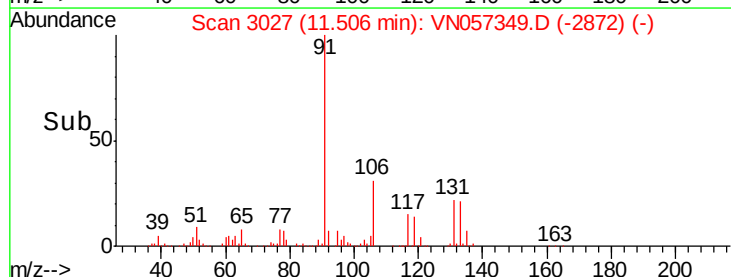
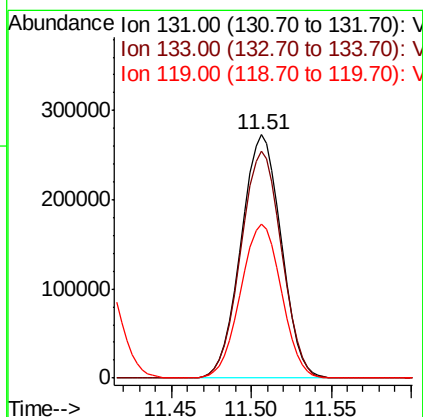
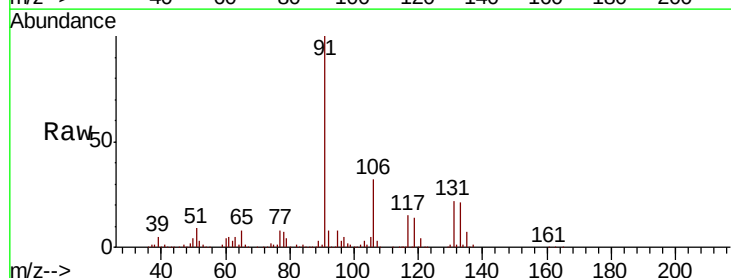
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

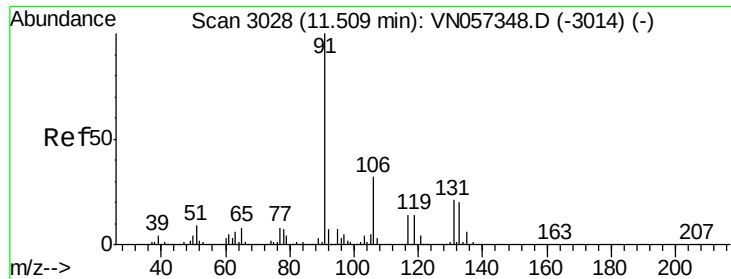
Tgt Ion:112 Resp: 1211427
Ion Ratio Lower Upper
112 100
114 31.4 25.3 37.9



#65
1,1,1,2-Tetrachloroethane
Concen: 49.046 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

Tgt Ion:131 Resp: 468202
Ion Ratio Lower Upper
131 100
133 95.0 0.0 191.4
119 64.2 0.0 133.4

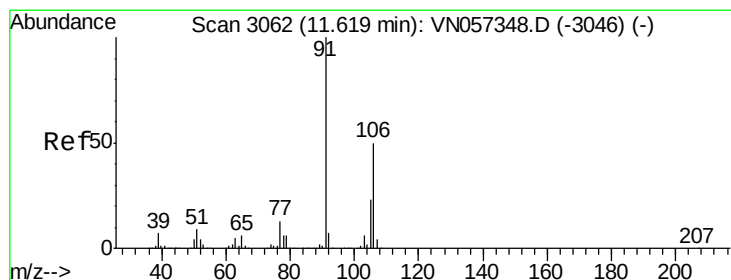
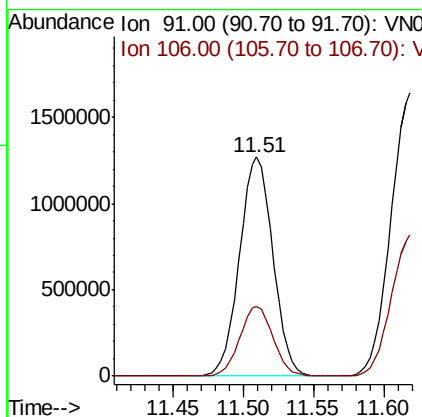
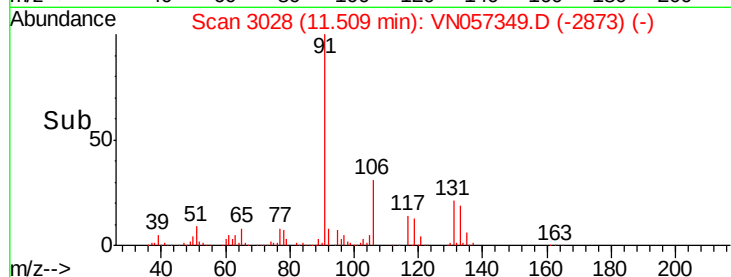
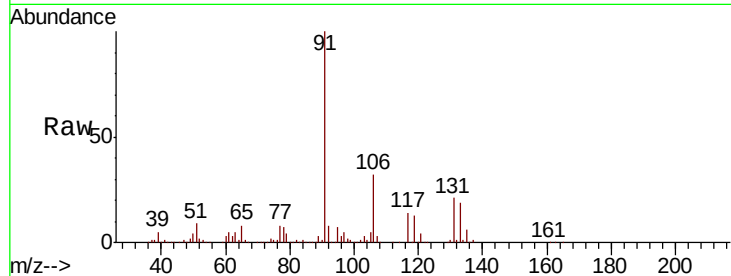




#66
Ethyl Benzene
Concen: 49.310 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

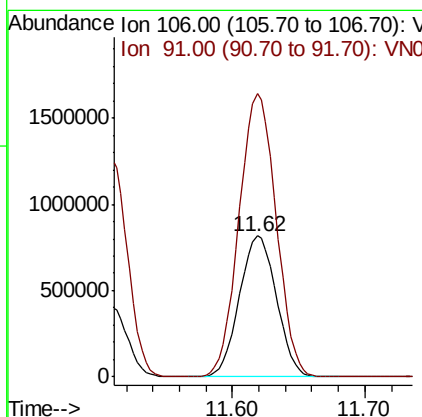
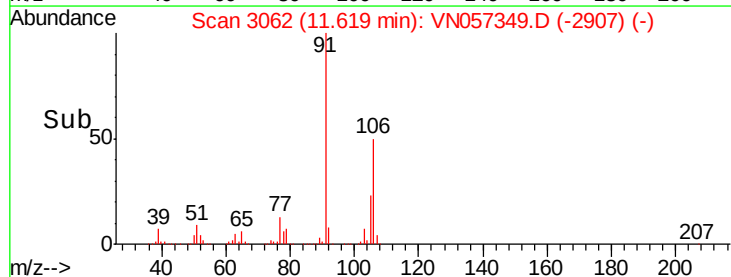
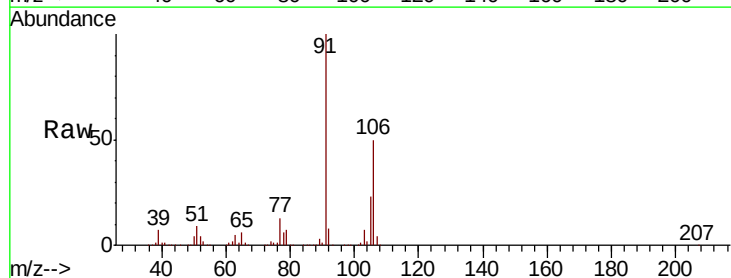
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

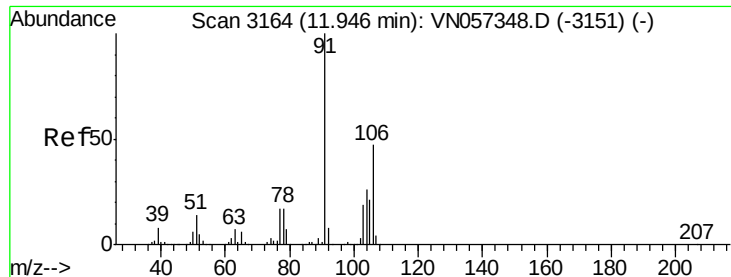
Tgt Ion: 91 Resp: 2106092
Ion Ratio Lower Upper
91 100
106 32.0 25.1 37.7



#67
m/p-Xylenes
Concen: 99.189 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

Tgt Ion: 106 Resp: 1585613
Ion Ratio Lower Upper
106 100
91 200.8 161.8 242.8

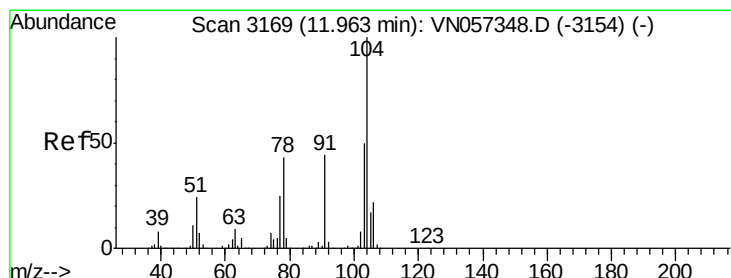
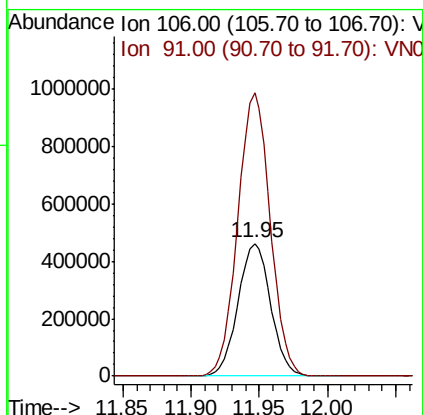
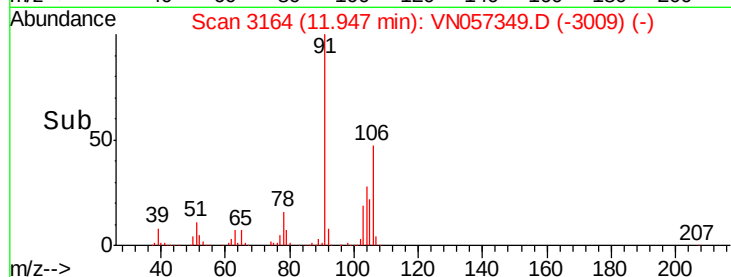
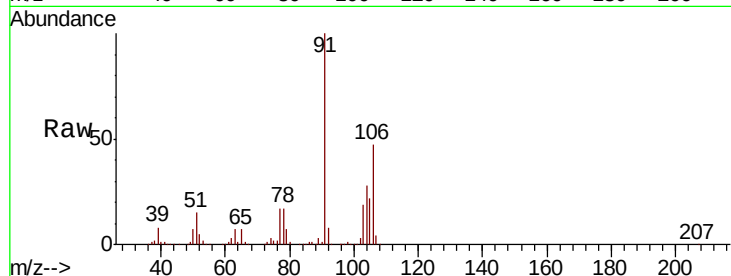




#68
o-Xylene
Concen: 49.069 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

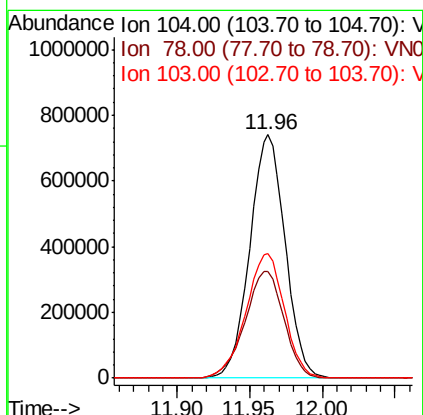
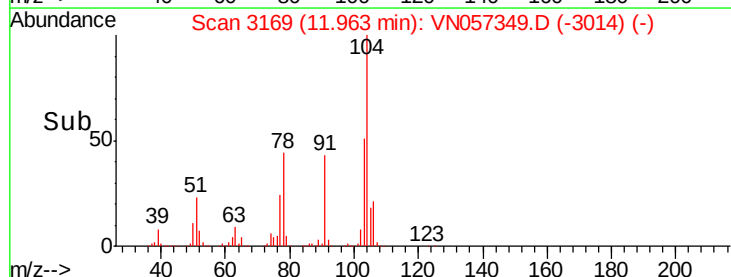
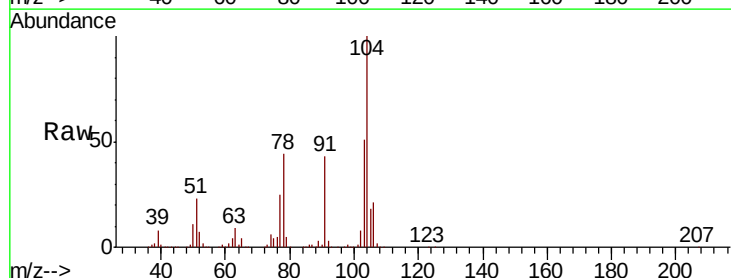
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

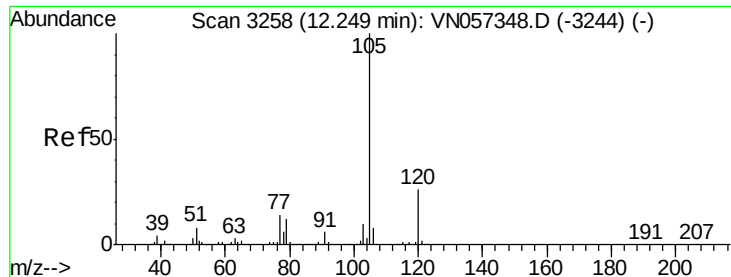
Tgt Ion:106 Resp: 766831
Ion Ratio Lower Upper
106 100
91 212.0 108.1 324.2



#69
Styrene
Concen: 50.123 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN057349.D
Acq: 16 Aug 2019 12:17

Tgt Ion:104 Resp: 1258429
Ion Ratio Lower Upper
104 100
78 48.3 38.7 58.1
103 55.5 45.0 67.4





#70

Isopropylbenzene

Concen: 49.539 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampled :

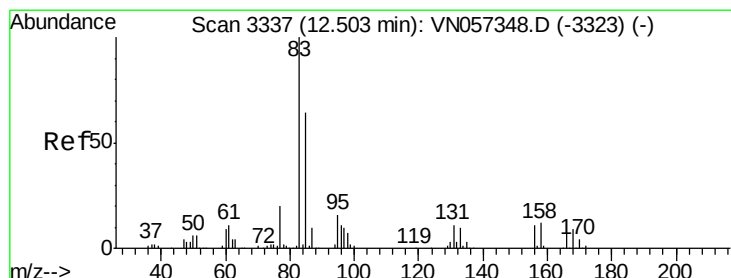
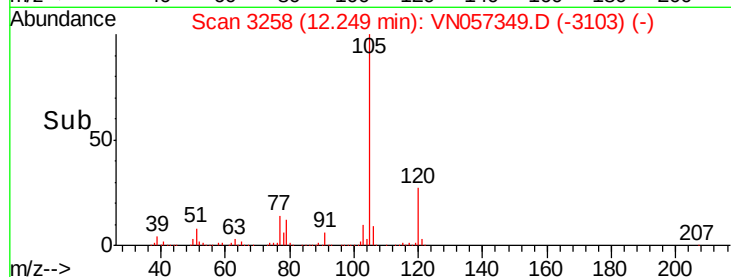
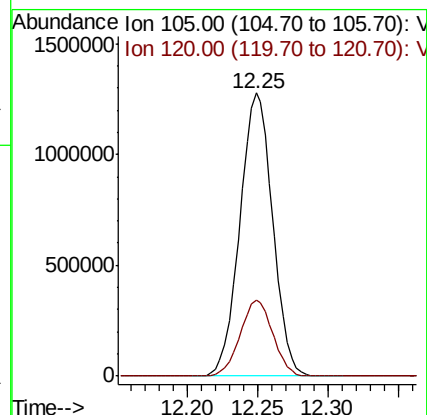
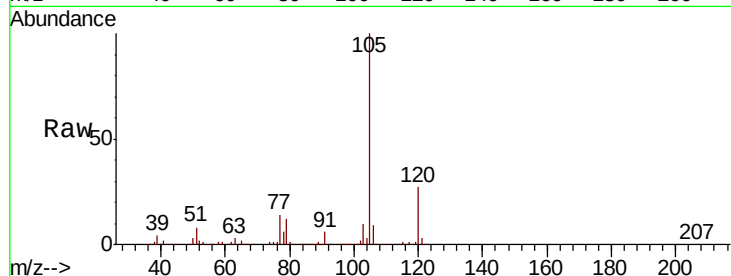
VSTDIC050

Tgt Ion: 105 Resp: 2075534

Ion Ratio Lower Upper

105 100

120 26.9 18.6 34.5



#71

1,1,2,2-Tetrachloroethane

Concen: 48.832 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

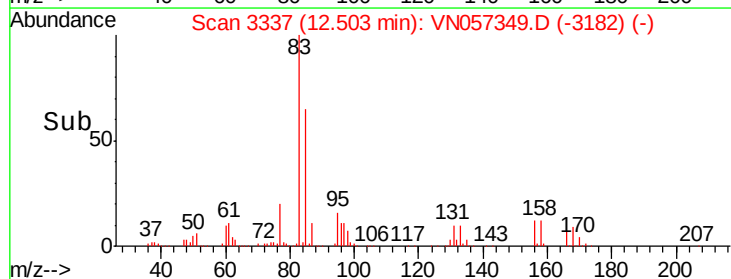
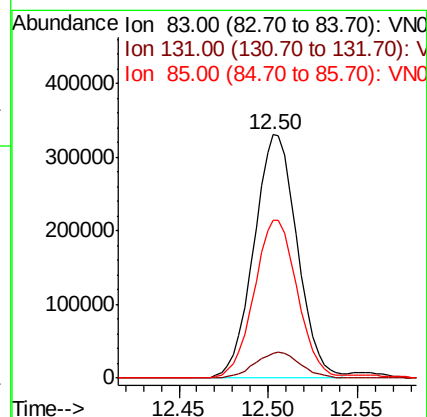
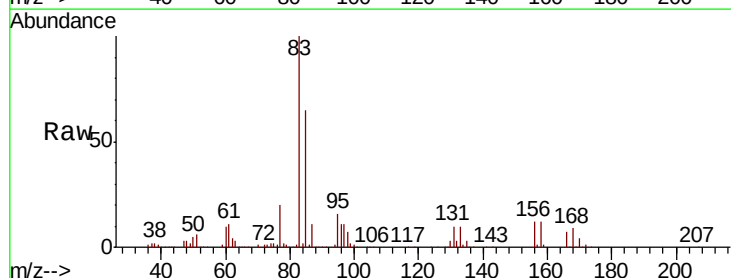
Tgt Ion: 83 Resp: 560443

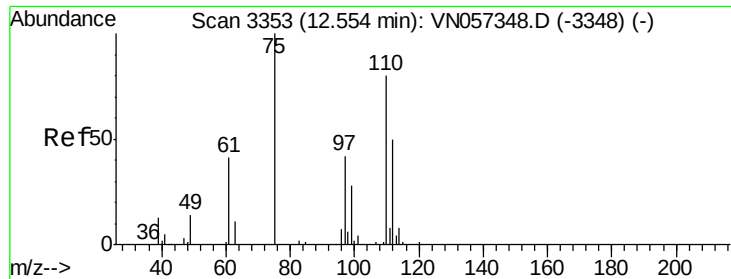
Ion Ratio Lower Upper

83 100

131 11.2 5.1 15.3

85 64.8 31.9 95.7





#72

1,2,3-Trichloropropane

Concen: 72.225 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

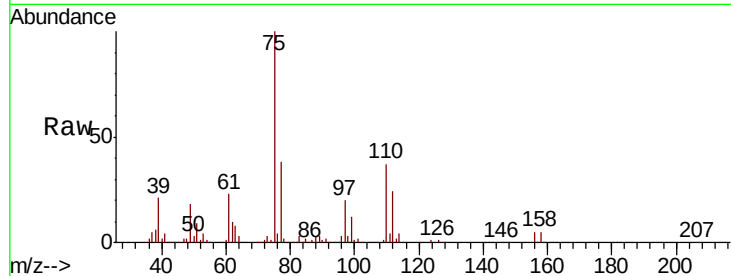
VSTDIC050

Tgt Ion: 75 Resp: 699517

Ion Ratio Lower Upper

75 100

77 136.8 0.0 352.2



Abundance Ion 75.00 (74.70 to 75.70): VN057348.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN057348.D (-3348) (-)

500000

400000

300000

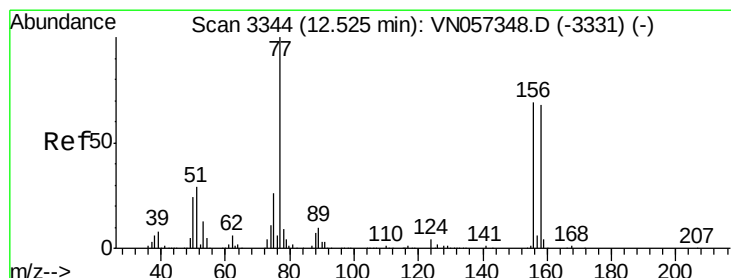
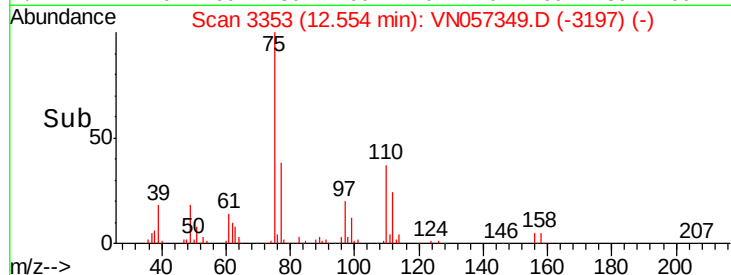
200000

100000

0

12.50 12.55 12.60

Time-->



#73

Bromobenzene

Concen: 49.837 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

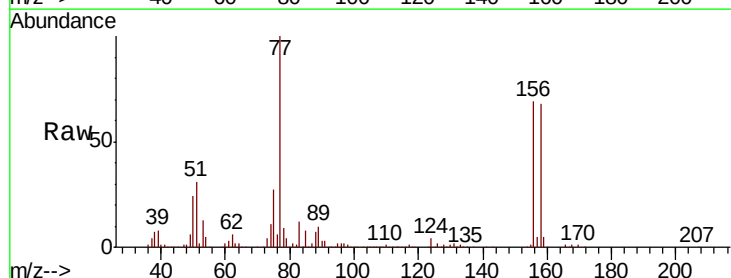
Tgt Ion: 156 Resp: 553310

Ion Ratio Lower Upper

156 100

77 172.9 0.0 381.8

158 96.5 0.0 195.8



Abundance Ion 156.00 (155.70 to 156.70): VN057348.D (-3331) (-)

Ion 77.00 (76.70 to 77.70): VN057348.D (-3331) (-)

Ion 158.00 (157.70 to 158.70): VN057348.D (-3331) (-)

600000

500000

400000

300000

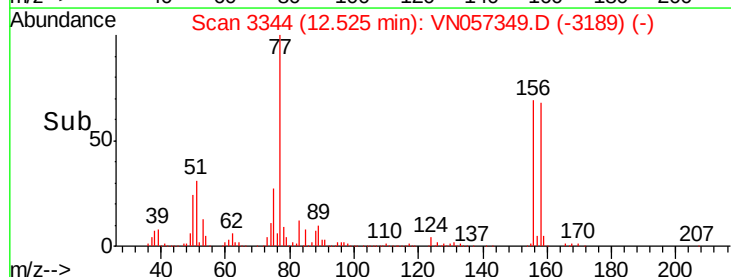
200000

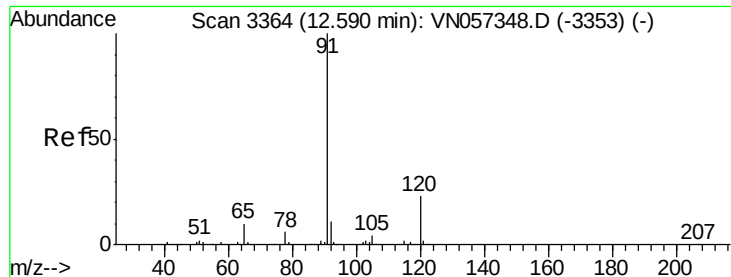
100000

0

12.45 12.50 12.55 12.60

Time-->





#74

n-propylbenzene

Concen: 50.003 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

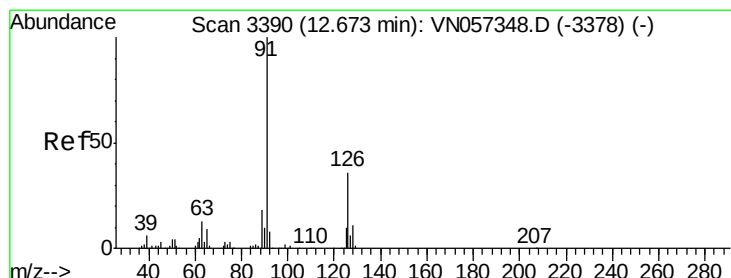
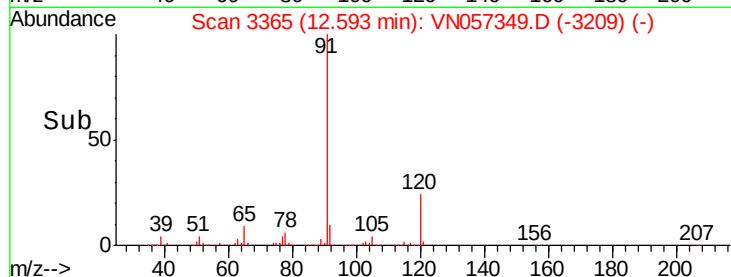
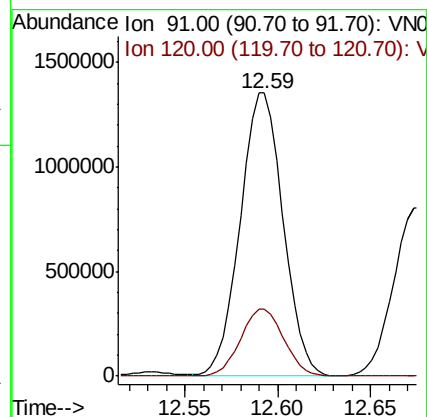
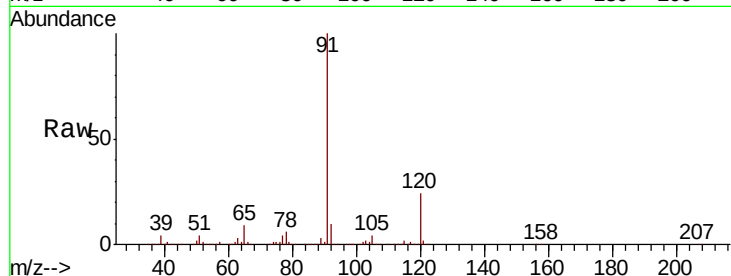
VSTDIC050

Tgt Ion: 91 Resp: 2176085

Ion Ratio Lower Upper

91 100

120 23.8 0.0 45.6



#75

2-Chlorotoluene

Concen: 49.963 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN057349.D

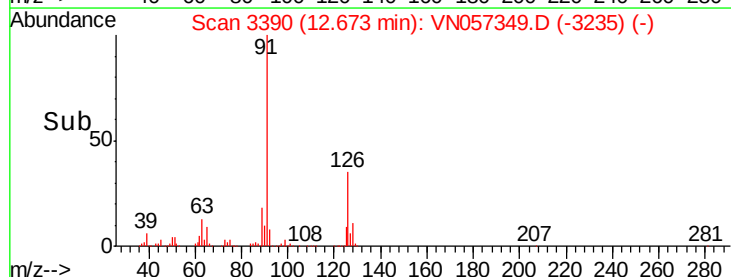
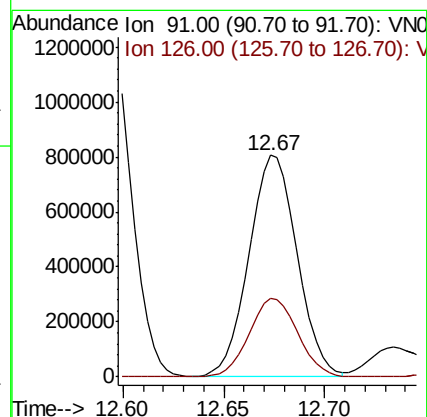
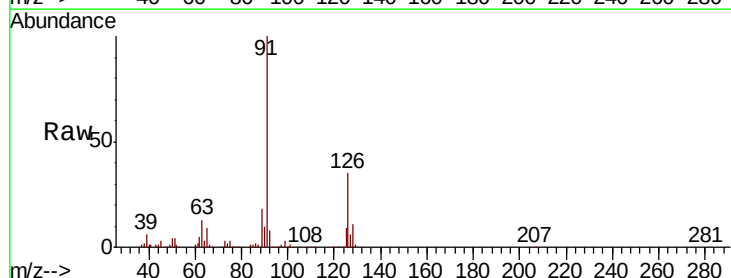
Acq: 16 Aug 2019 12:17

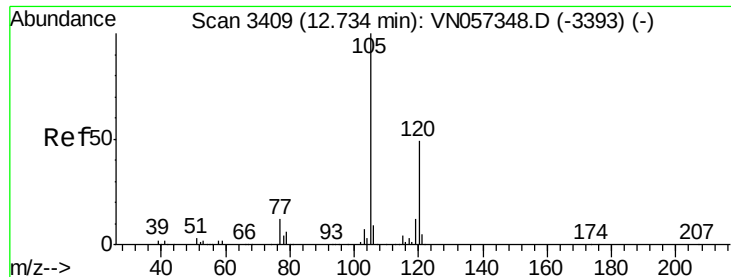
Tgt Ion: 91 Resp: 1349312

Ion Ratio Lower Upper

91 100

126 35.7 0.0 69.8





#76

1,3,5-Trimethylbenzene

Concen: 49.725 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

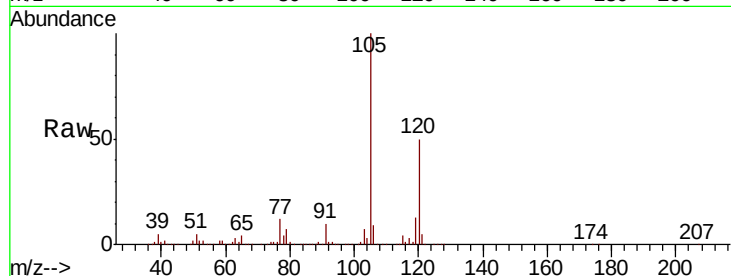
VSTDIC050

Tgt Ion:105 Resp: 1732727

Ion Ratio Lower Upper

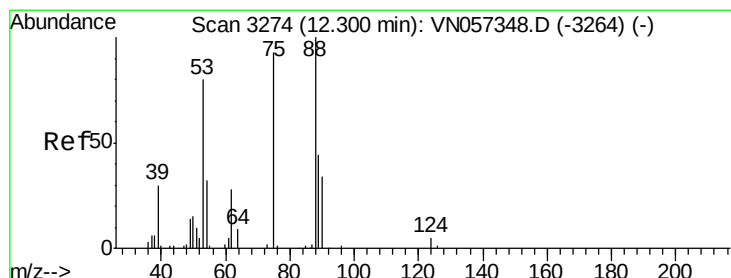
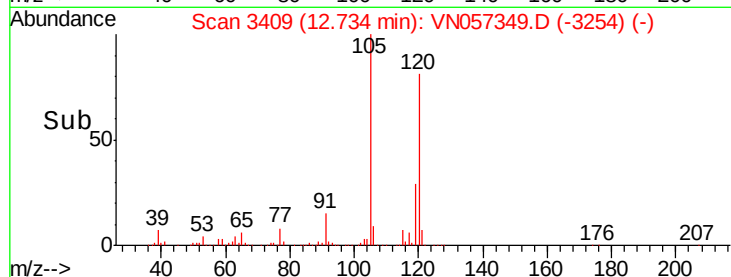
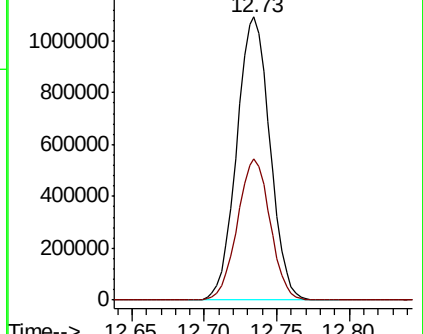
105 100

120 49.2 0.0 97.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#77

t-1,4-Dichloro-2-butene

Concen: 50.039 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

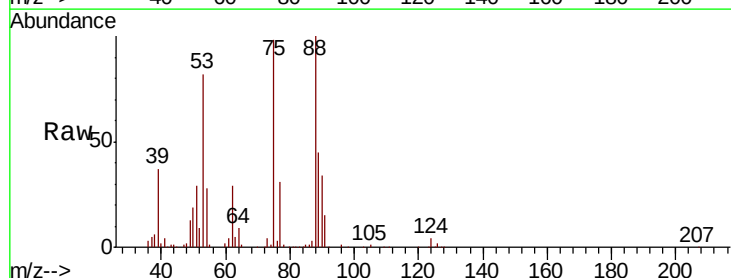
Tgt Ion: 75 Resp: 185968

Ion Ratio Lower Upper

75 100

53 83.1 48.6 145.8

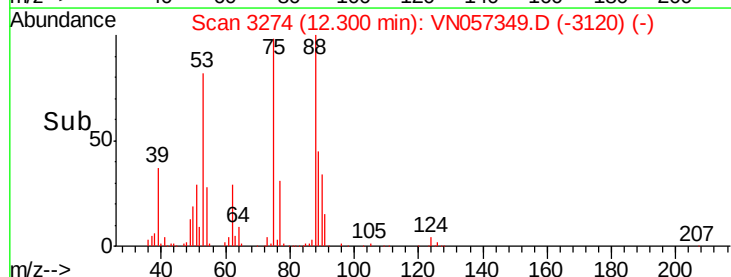
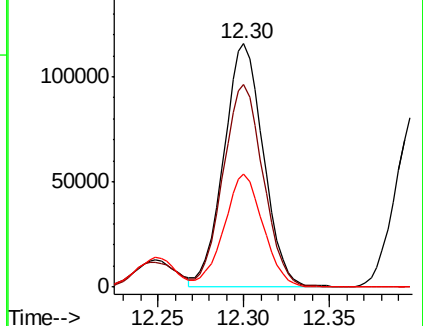
89 46.3 21.3 64.0

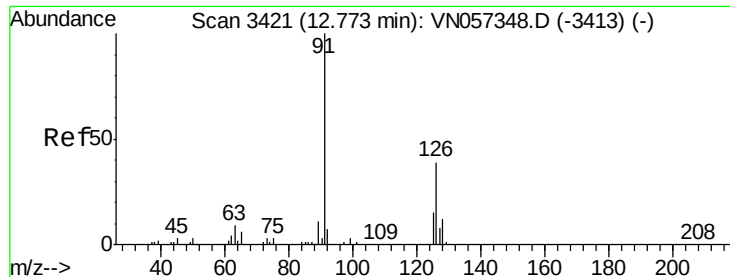


Abundance Ion 75.00 (74.70 to 75.70): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 89.00 (88.70 to 89.70): VNO





#78

4-Chlorotoluene

Concen: 49.289 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

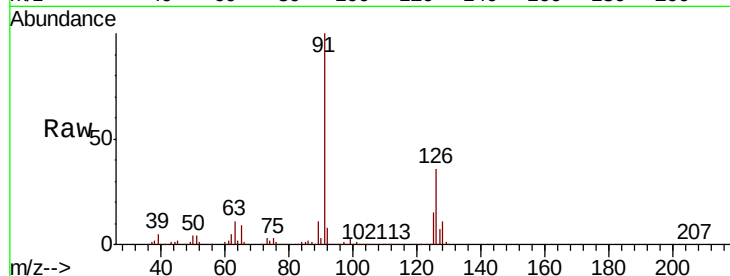
VSTDIC050

Tgt Ion: 91 Resp: 1245440

Ion Ratio Lower Upper

91 100

126 35.7 0.0 69.4



Abundance Ion 91.00 (90.70 to 91.70): VN057349.D (-3266) (-)

Ion 126.00 (125.70 to 126.70): VN057349.D (-3266) (-)

12.77

800000

600000

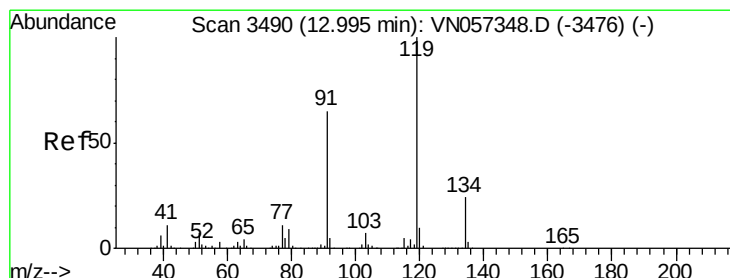
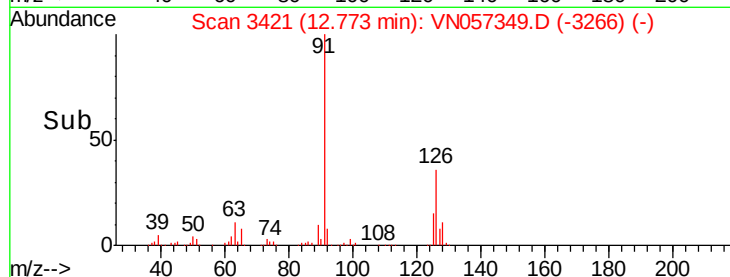
400000

200000

0

12.75 12.80 12.85

Time-->



#79

tert-butylbenzene

Concen: 48.814 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

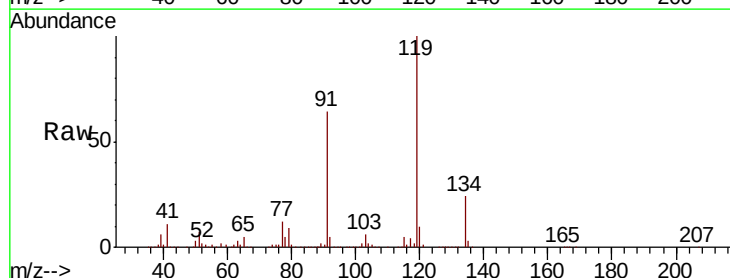
Tgt Ion: 119 Resp: 1515762

Ion Ratio Lower Upper

119 100

91 62.7 0.0 125.4

134 24.9 0.0 48.4



Abundance Ion 119.00 (118.70 to 119.70): VN057349.D (-3335) (-)

Ion 91.00 (90.70 to 91.70): VN057349.D (-3335) (-)

Ion 134.00 (133.70 to 134.70): VN057349.D (-3335) (-)

12.99

1200000

1000000

800000

600000

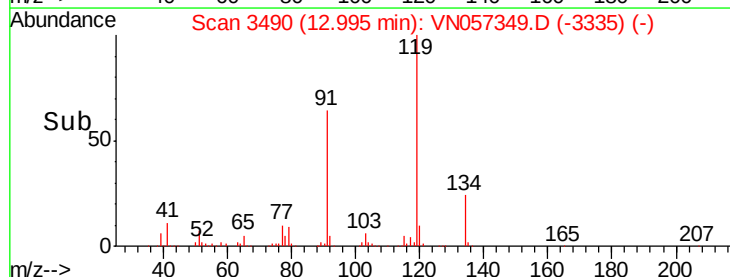
400000

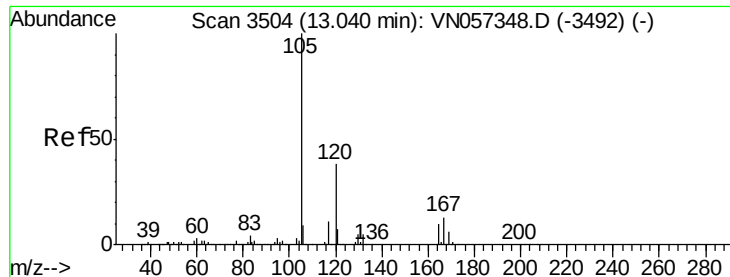
200000

0

12.95 13.00

Time-->

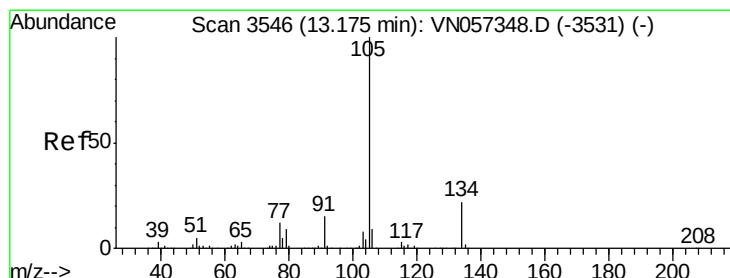
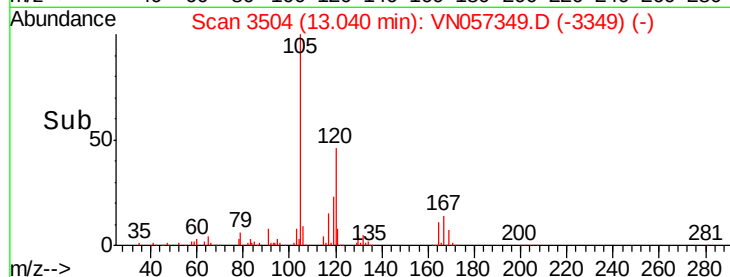
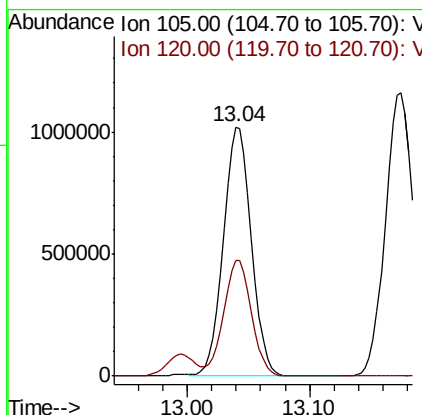
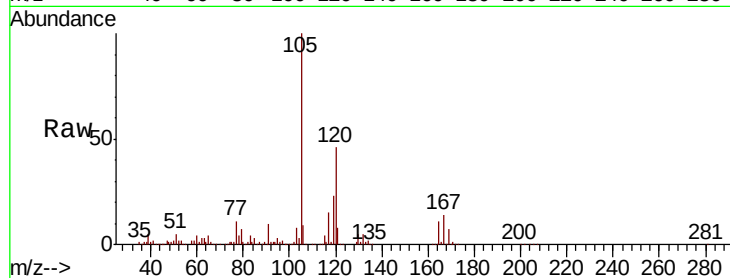




#80
 1,2,4-Trimethylbenzene
 Concen: 49.966 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

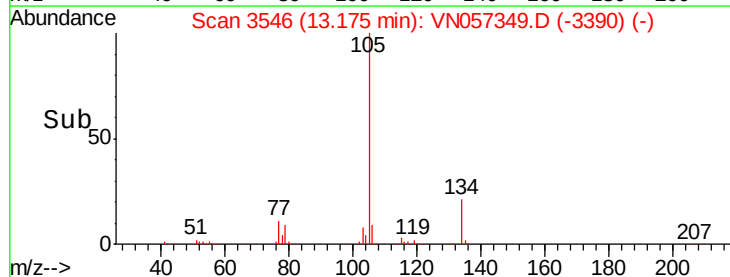
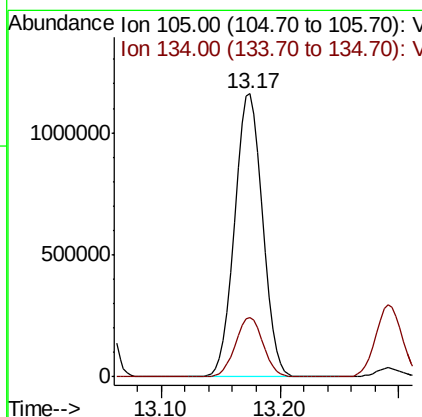
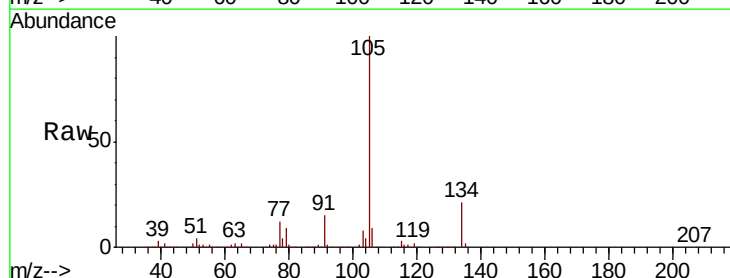
Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC050

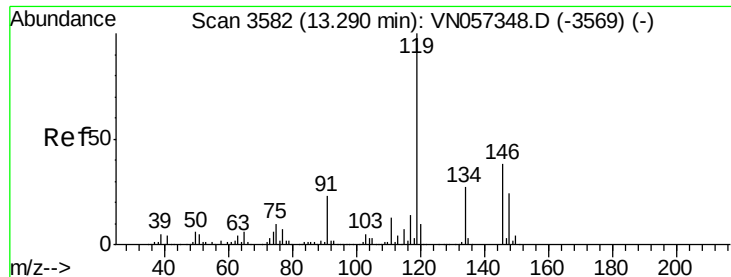
Tgt Ion:105 Resp: 1642305
 Ion Ratio Lower Upper
 105 100
 120 46.0 0.0 91.2



#81
 sec-Butylbenzene
 Concen: 49.242 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

Tgt Ion:105 Resp: 1884816
 Ion Ratio Lower Upper
 105 100
 134 20.9 0.0 40.8

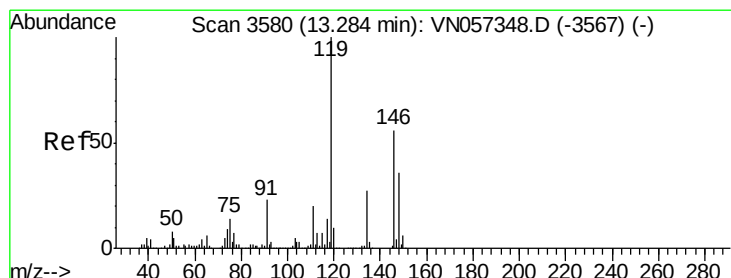
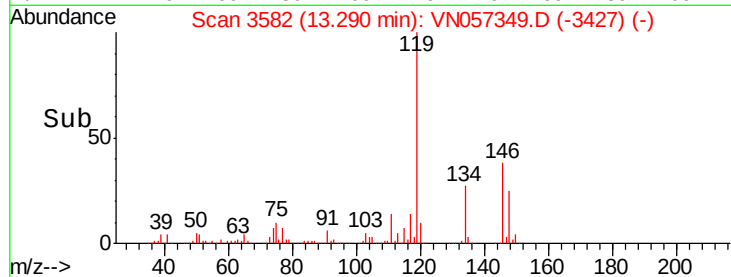
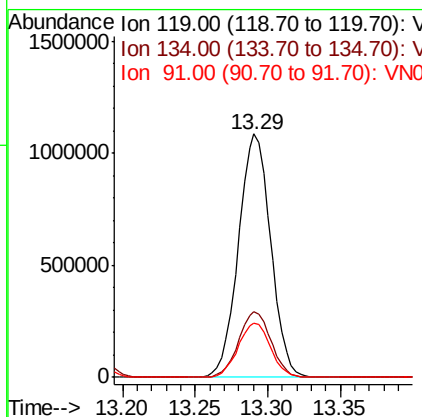
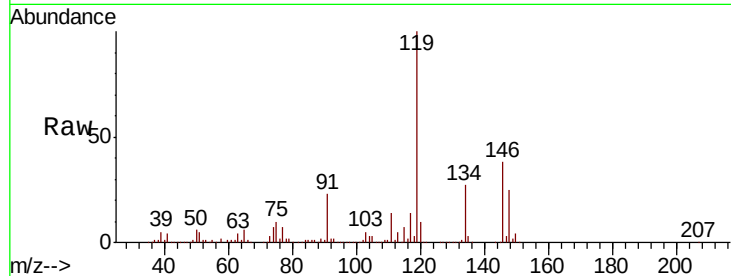




#82
 p-Isopropyltoluene
 Concen: 48.810 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

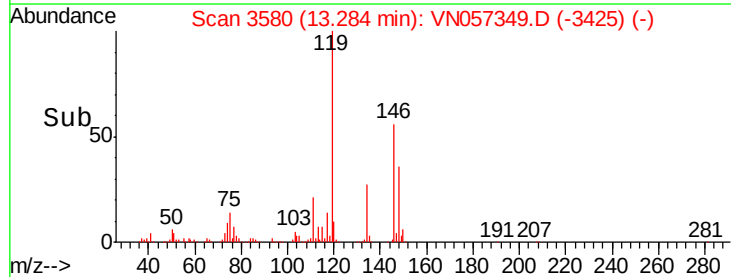
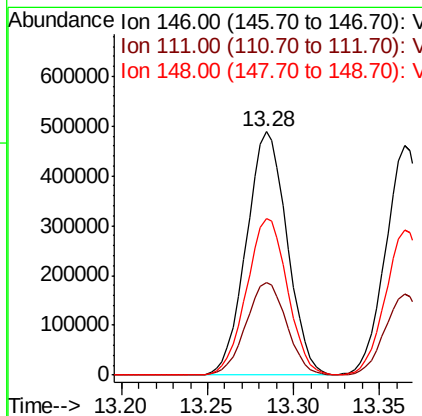
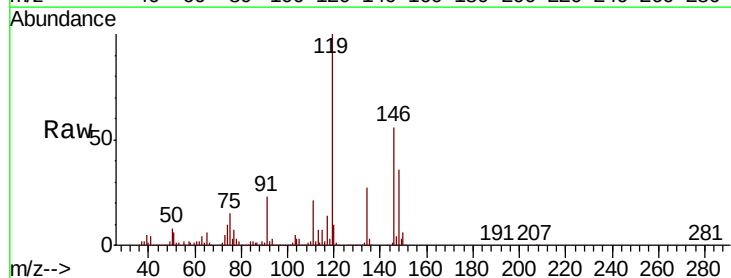
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

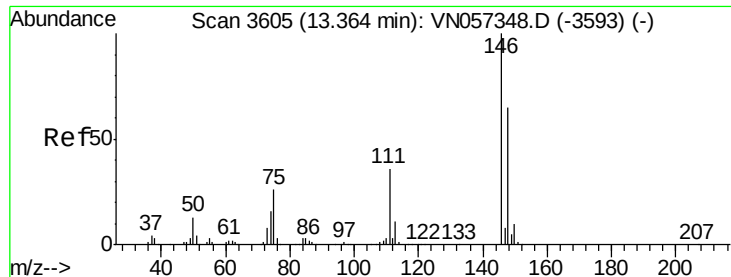
Tgt Ion:119 Resp: 1673754
 Ion Ratio Lower Upper
 119 100
 134 27.2 0.0 52.8
 91 22.5 0.0 45.4



#83
 1,3-Dichlorobenzene
 Concen: 49.393 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

Tgt Ion:146 Resp: 803283
 Ion Ratio Lower Upper
 146 100
 111 37.9 18.7 56.1
 148 64.5 31.8 95.4





#84

1,4-Dichlorobenzene

Concen: 49.298 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

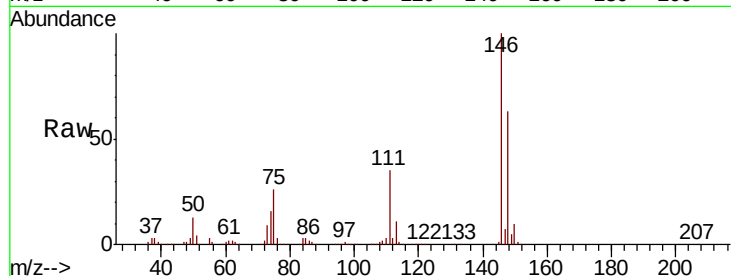
Tgt Ion:146 Resp: 748374

Ion Ratio Lower Upper

146 100

111 35.5 17.8 53.4

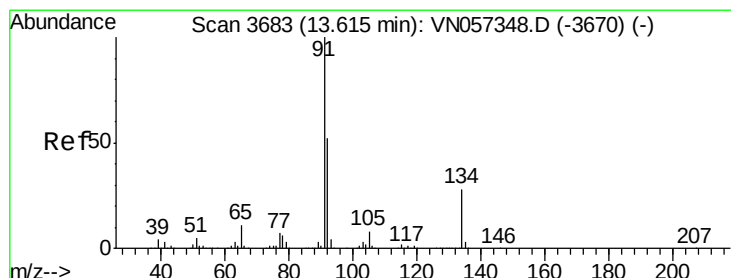
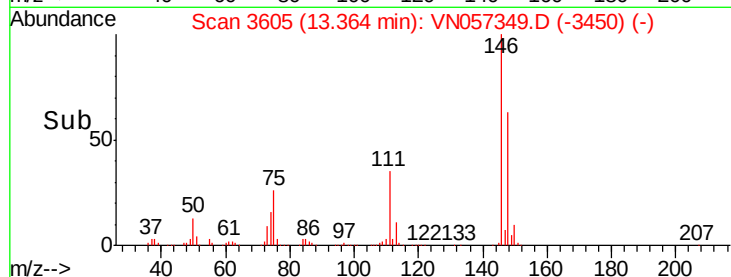
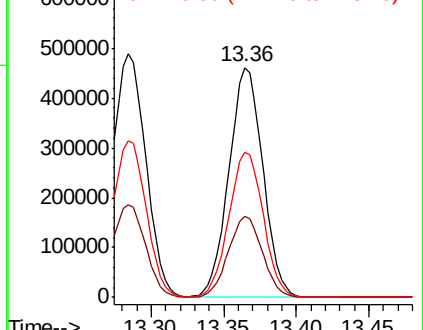
148 64.2 31.9 95.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#85

n-Butylbenzene

Concen: 50.578 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

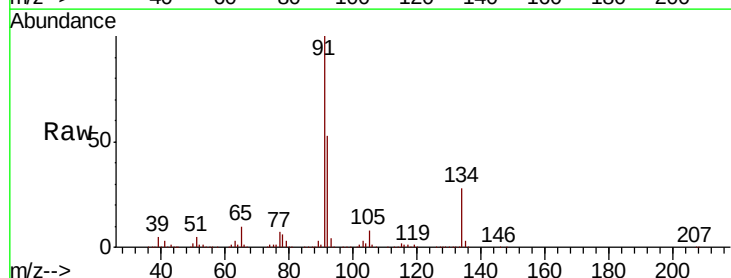
Tgt Ion: 91 Resp: 1289648

Ion Ratio Lower Upper

91 100

92 52.8 0.0 104.0

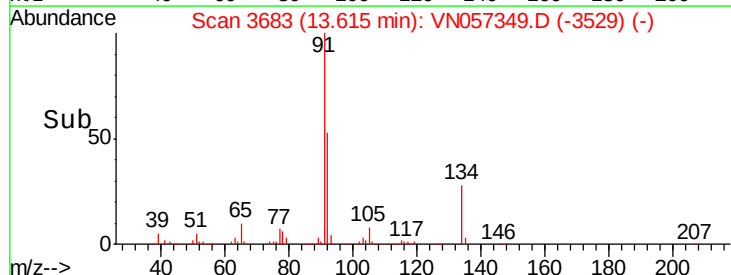
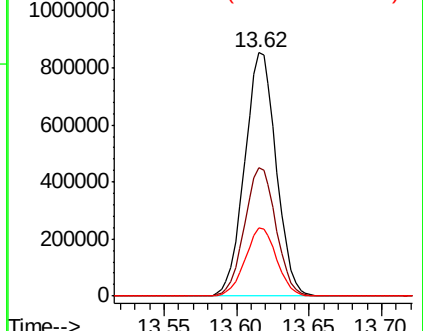
134 27.9 0.0 53.2

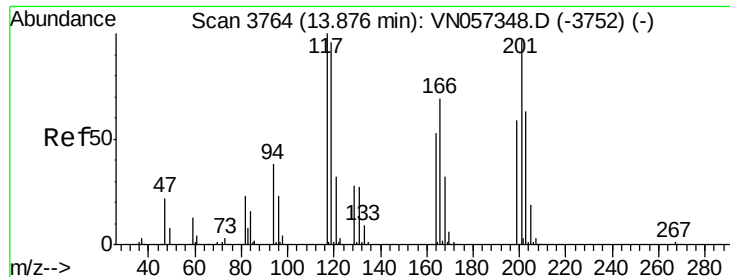


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#86

Hexachloroethane

Concen: 49.031 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

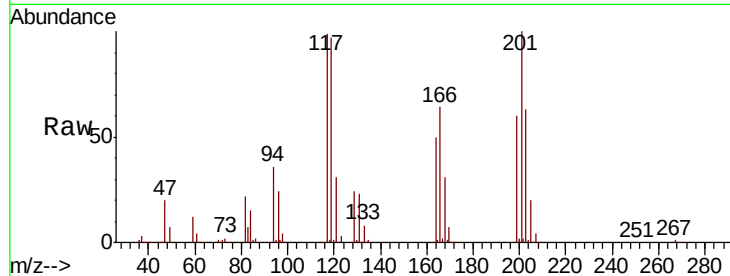
VSTDIC050

Tgt Ion:117 Resp: 323608

Ion Ratio Lower Upper

117 100

201 100.6 45.6 136.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

200000

150000

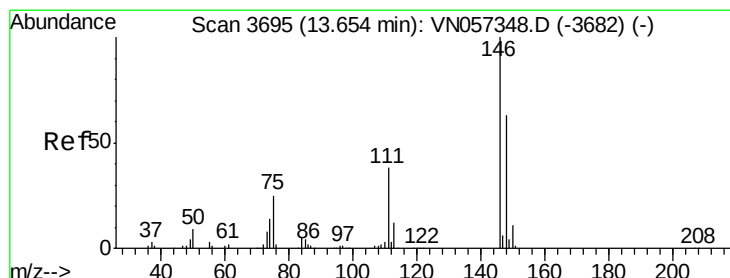
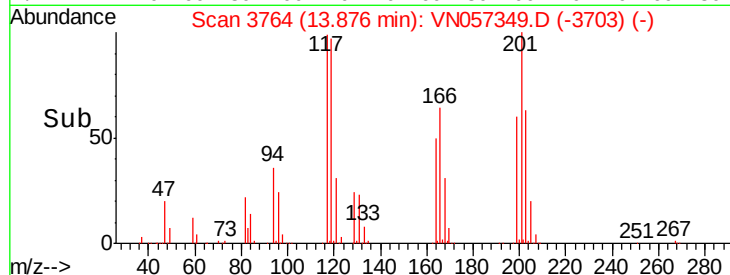
100000

50000

0

13.80 13.85 13.90 13.95

Time-->



#87

1,2-Dichlorobenzene

Concen: 49.250 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

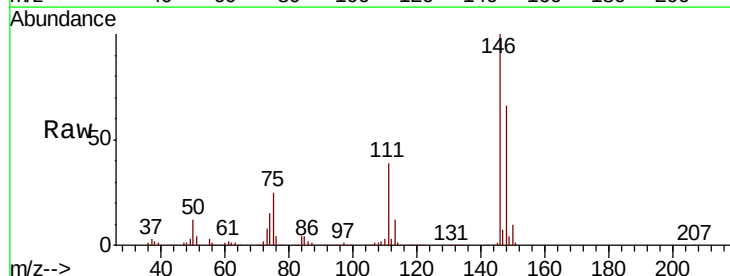
Tgt Ion:146 Resp: 756682

Ion Ratio Lower Upper

146 100

111 39.1 19.7 59.0

148 65.3 32.7 98.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

600000

500000

400000

300000

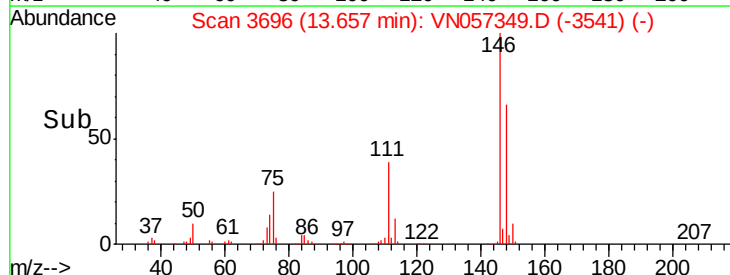
200000

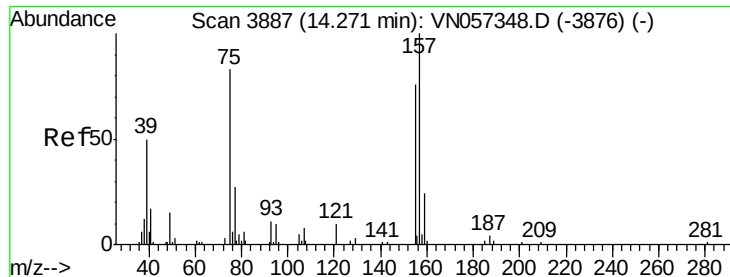
100000

0

13.60 13.70

Time-->





#88

1,2-Dibromo-3-Chloropropane

Concen: 47.920 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

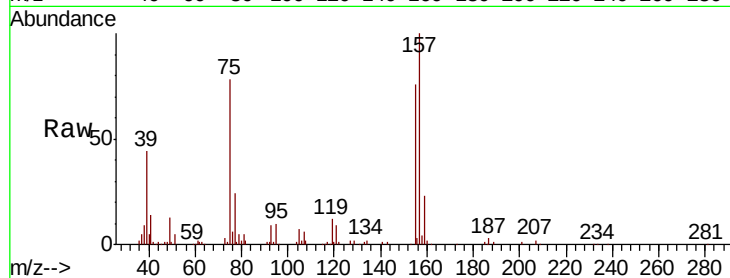
Tgt Ion: 75 Resp: 73715

Ion Ratio Lower Upper

75 100

155 99.0 78.6 117.8

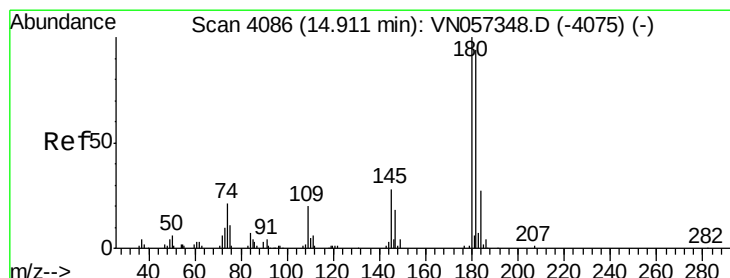
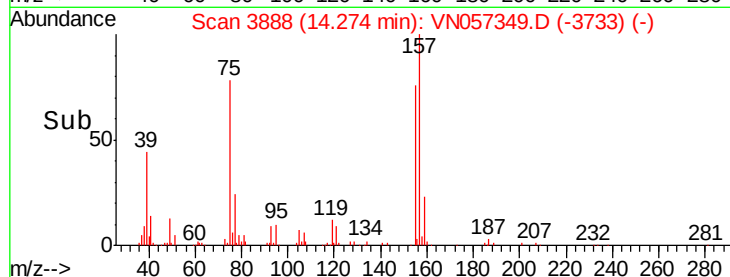
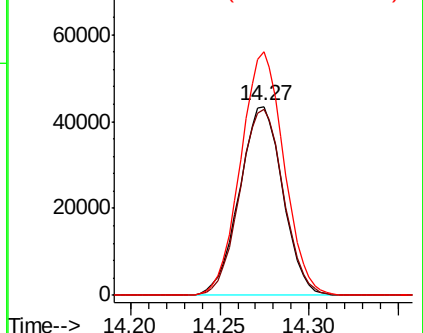
157 129.0 99.3 148.9



Abundance Ion 75.00 (74.70 to 75.70): VN057348.D (-3876) (-)

Ion 155.00 (154.70 to 155.70): VN057348.D (-3876) (-)

Ion 157.00 (156.70 to 157.70): VN057348.D (-3876) (-)



#89

1,2,4-Trichlorobenzene

Concen: 48.145 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

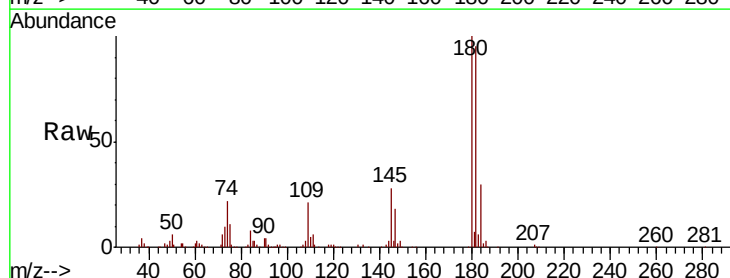
Tgt Ion: 180 Resp: 261720

Ion Ratio Lower Upper

180 100

182 95.6 78.2 117.4

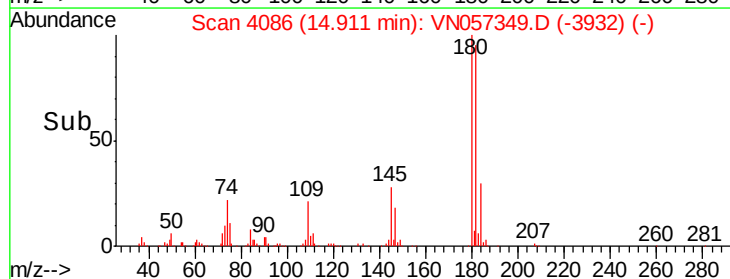
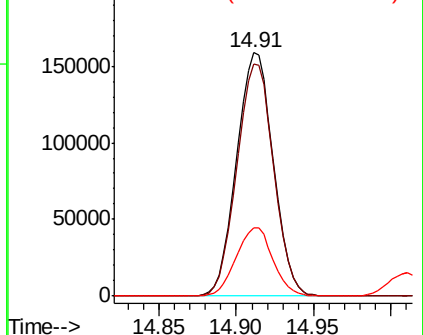
145 28.1 23.2 34.8

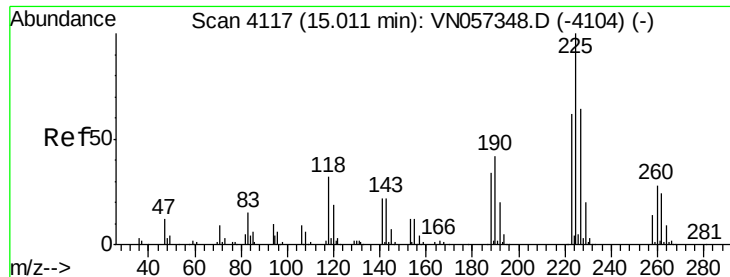


Abundance Ion 180.00 (179.70 to 180.70): VN057348.D (-4075) (-)

Ion 182.00 (181.70 to 182.70): VN057348.D (-4075) (-)

Ion 145.00 (144.70 to 145.70): VN057348.D (-4075) (-)





#90

Hexachlorobutadiene

Concen: 47.917 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

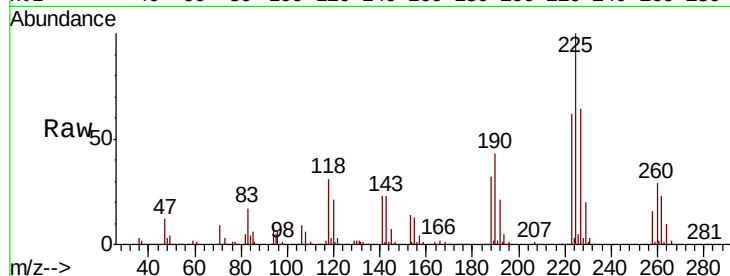
Tgt Ion: 225 Resp: 332413

Ion Ratio Lower Upper

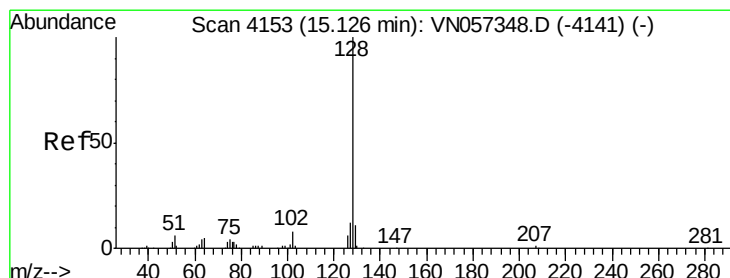
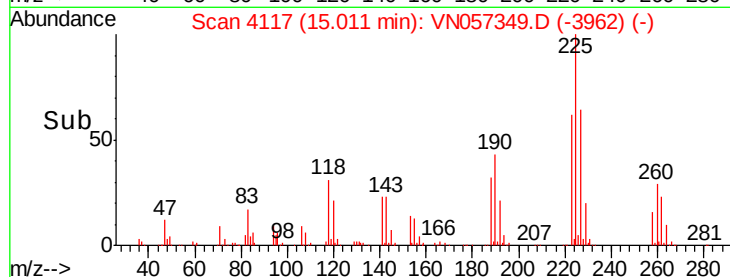
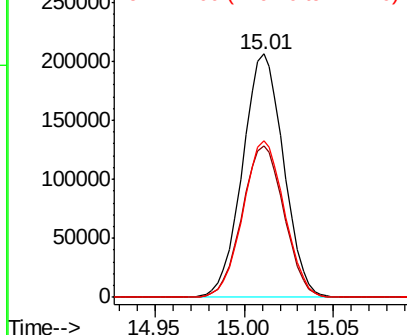
225 100

223 63.4 0.0 124.6

227 64.8 0.0 128.6



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 44.361 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN057349.D

Acq: 16 Aug 2019 12:17

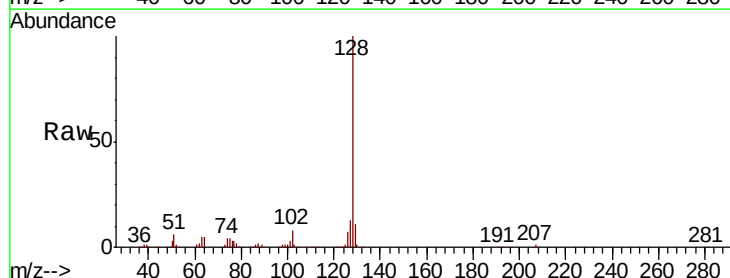
Tgt Ion: 128 Resp: 521214

Ion Ratio Lower Upper

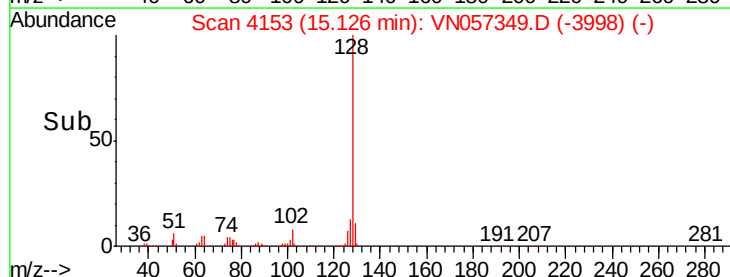
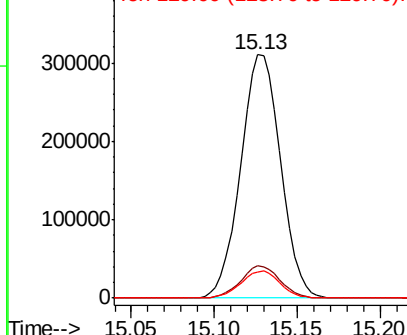
128 100

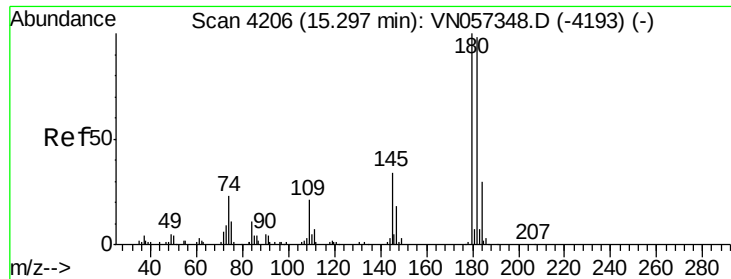
127 13.0 10.4 15.6

129 10.8 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

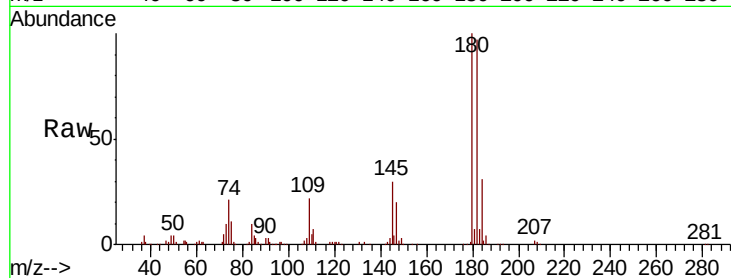




#92
 1,2,3-Trichlorobenzene
 Concen: 47.376 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.00 min
 Lab File: VN057349.D
 Acq: 16 Aug 2019 12:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	0.0	192.4
145	29.8	0.0	60.4



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

