

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054619.D
 Acq On : 23 Mar 2019 22:50
 Operator : JC/SP
 Sample : VN0323MBS01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323MBS01

Quant Time: Mar 25 03:37:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	399011	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	681323	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	589991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	247710	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	278712	56.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.32%	
35) Dibromofluoromethane	7.59	113	218773	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
50) Toluene-d8	10.09	98	804458	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
62) 4-Bromofluorobenzene	12.40	95	266523	47.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	80885	21.205	ug/l	98
3) Chloromethane	2.06	50	118855	22.901	ug/l	98
4) Vinyl Chloride	2.19	62	105538	20.254	ug/l	99
5) Bromomethane	2.57	94	60402	17.927	ug/l	96
6) Chloroethane	2.71	64	59458	19.025	ug/l	97
7) Trichlorofluoromethane	3.02	101	127970	20.223	ug/l	99
8) Diethyl Ether	3.41	74	46898	19.271	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.75	101	66137	17.784	ug/l	94
10) Methyl Iodide	3.94	142	95769	17.506	ug/l #	90
11) Tert butyl alcohol	4.82	59	35665	118.695	ug/l #	84
12) 1,1-Dichloroethene	3.73	96	68481	17.794	ug/l #	80
13) Acrolein	3.61	56	9776	23.576	ug/l #	81
14) Allyl chloride	4.32	41	155116	21.404	ug/l #	94
15) Acrylonitrile	5.00	53	174549	116.651	ug/l	99
16) Acetone	3.82	43	125450	84.073	ug/l #	85
17) Carbon Disulfide	4.04	76	194349	18.847	ug/l	98
18) Methyl Acetate	4.33	43	82100	24.686	ug/l #	88
19) Methyl tert-butyl Ether	5.06	73	253296	22.551	ug/l	97
20) Methylene Chloride	4.54	84	94717	21.534	ug/l #	85
21) trans-1,2-Dichloroethene	5.04	96	86372	21.978	ug/l	86
22) Diisopropyl ether	5.96	45	337382	23.602	ug/l #	94
23) Vinyl Acetate	5.90	43	1197204	118.582	ug/l #	92
24) 1,1-Dichloroethane	5.84	63	174755	22.705	ug/l	98
25) 2-Butanone	6.85	43	215119	112.543	ug/l #	88
26) 2,2-Dichloropropane	6.82	77	93475	17.037	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	98998	21.120	ug/l	88
28) Bromochloromethane	7.19	49	86500	22.832	ug/l #	72
29) Tetrahydrofuran	7.22	42	152838	123.217	ug/l #	85
30) Chloroform	7.37	83	169966	22.628	ug/l	98
31) Cyclohexane	7.65	56	164384	21.220	ug/l	91
32) 1,1,1-Trichloroethane	7.57	97	138799	22.398	ug/l	95
36) 1,1-Dichloropropene	7.79	75	122706	19.262	ug/l	95
37) Ethyl Acetate	6.94	43	100124	22.098	ug/l	96
38) Carbon Tetrachloride	7.77	117	121184	19.575	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	132301	18.156	ug/l	89
40) Benzene	8.04	78	372828	20.466	ug/l	98
41) Methacrylonitrile	7.18	41	63332	22.920	ug/l #	81
42) 1,2-Dichloroethane	8.13	62	138257	20.840	ug/l	96
43) Isopropyl Acetate	8.17	43	172306	22.518	ug/l #	93
44) Trichloroethene	8.83	130	95642	18.885	ug/l	89
45) 1,2-Dichloropropane	9.12	63	105742	21.617	ug/l	99
46) Dibromomethane	9.21	93	61229	20.982	ug/l	89
47) Bromodichloromethane	9.40	83	128557	21.227	ug/l	97
48) Methyl methacrylate	9.20	41	87804	21.141	ug/l #	86
49) 1,4-Dioxane	9.20	88	20265	436.458	ug/l #	87
51) 4-Methyl-2-Pentanone	9.99	43	482395	113.752	ug/l	93
52) Toluene	10.16	92	222070	19.820	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	112257	19.019	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	137456	19.795	ug/l #	90
55) 1,1,2-Trichloroethane	10.56	97	86152	21.391	ug/l	97
56) Ethyl methacrylate	10.43	69	112105	20.739	ug/l #	80
57) 1,3-Dichloropropane	10.71	76	149080	21.294	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	208182	93.526	ug/l	89
59) 2-Hexanone	10.75	43	302152	109.080	ug/l	91
60) Dibromochloromethane	10.90	129	88243	20.591	ug/l	100
61) 1,2-Dibromoethane	11.01	107	79836	20.051	ug/l	98
64) Tetrachloroethene	10.63	164	89904	18.371	ug/l	93
65) Chlorobenzene	11.43	112	234791	19.566	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	89024	20.669	ug/l	99
67) Ethyl Benzene	11.51	91	422035	19.910	ug/l	98
68) m/p-Xylenes	11.62	106	310860	38.718	ug/l	96
69) o-Xylene	11.95	106	154451	19.698	ug/l	96
70) Styrene	11.96	104	252509	19.831	ug/l	96
71) Bromoform	12.13	173	52985	19.272	ug/l #	99
73) Isopropylbenzene	12.25	105	402167	20.148	ug/l	99
74) N-amyl acetate	12.07	43	136188	23.728	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.50	83	103245	22.658	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	120750	30.719	ug/l #	100
77) Bromobenzene	12.53	156	101249	20.452	ug/l	87
78) n-propylbenzene	12.59	91	436028	20.145	ug/l	97
79) 2-Chlorotoluene	12.67	91	271710	20.130	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	332466	20.322	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	18728	18.555	ug/l #	76
82) 4-Chlorotoluene	12.77	91	265423	20.287	ug/l	96
83) tert-Butylbenzene	12.99	119	291295	20.456	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	324141	20.193	ug/l	98
85) sec-Butylbenzene	13.17	105	353229	19.898	ug/l	98
86) p-Isopropyltoluene	13.29	119	306981	19.329	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	162105	19.759	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	159984	20.043	ug/l	98
89) n-Butylbenzene	13.62	91	232850	18.750	ug/l	99
90) Hexachloroethane	13.87	117	51069	20.716	ug/l	89
91) 1,2-Dichlorobenzene	13.65	146	165055	20.771	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	15852	23.718	ug/l	79

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	73125	18.460	ug/l	98
94) Hexachlorobutadiene	15.01	225	45818	19.052	ug/l	98
95) Naphthalene	15.13	128	175720	19.887	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	76404	19.379	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

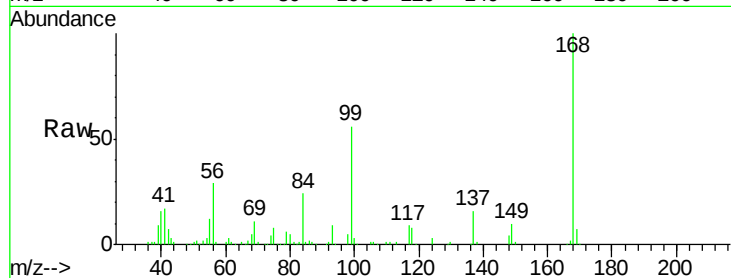
VN0323MBSD01

Tot Ion:168 Resp: 399011

Ion Ratio Lower Upper

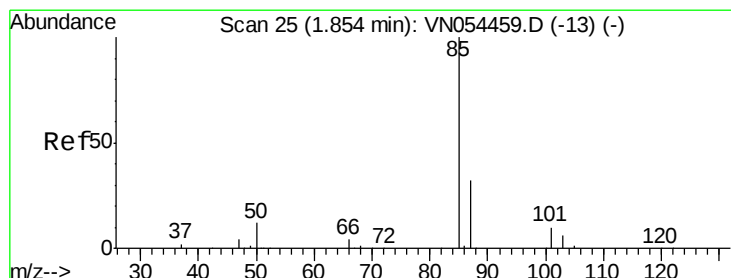
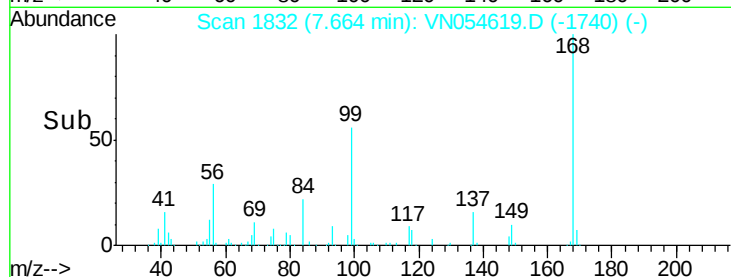
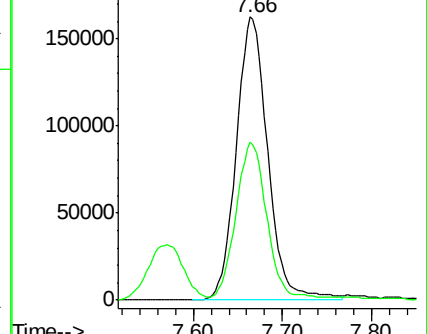
168 100

99 54.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 21.205 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054619.D

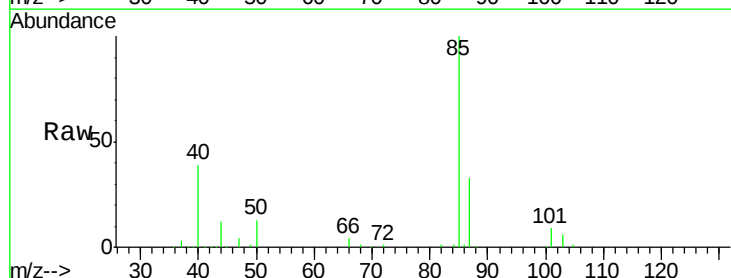
Acq: 23 Mar 2019 22:50

Tgt Ion: 85 Resp: 80885

Ion Ratio Lower Upper

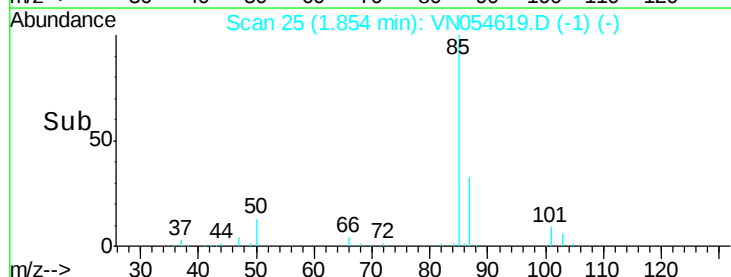
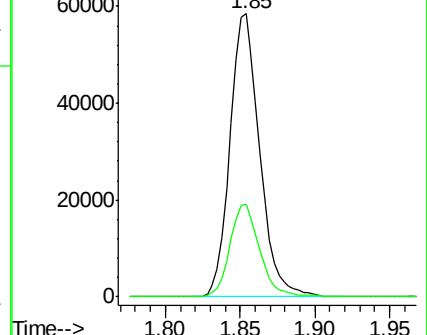
85 100

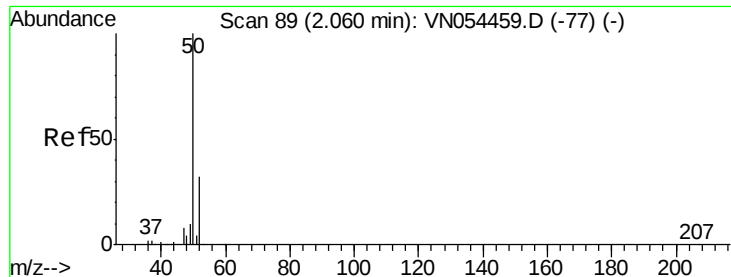
87 32.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 22.901 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

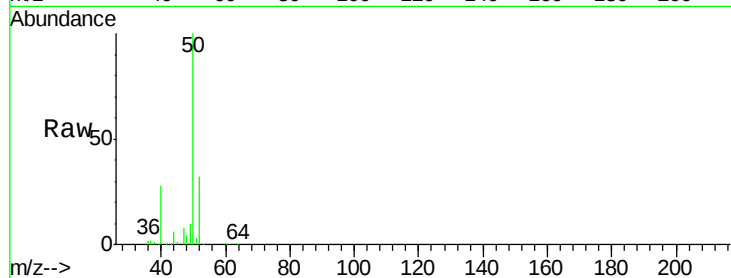
VN0323MBSD01

Tot Ion: 50 Resp: 118855

Ion Ratio Lower Upper

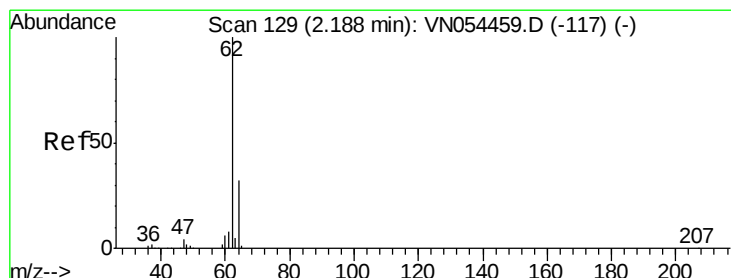
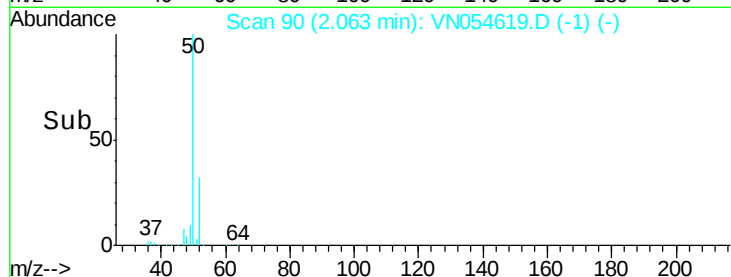
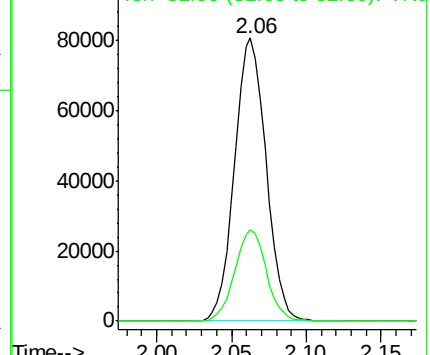
50 100

52 32.1 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 20.254 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054619.D

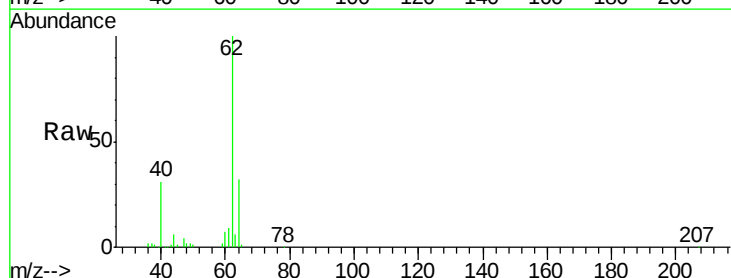
Acq: 23 Mar 2019 22:50

Tgt Ion: 62 Resp: 105538

Ion Ratio Lower Upper

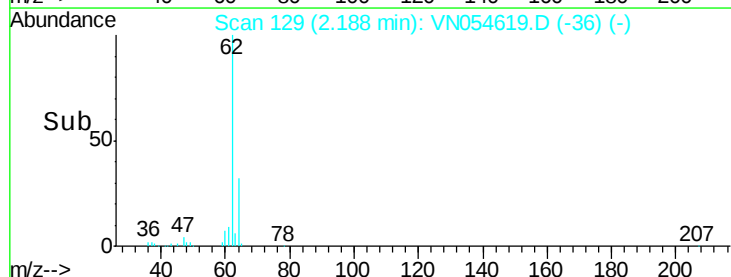
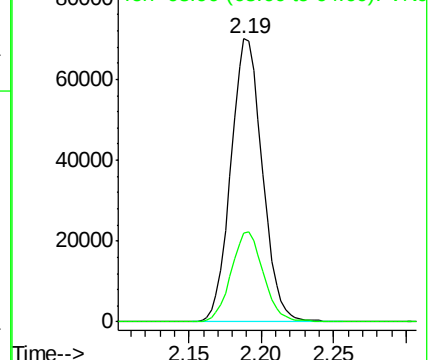
62 100

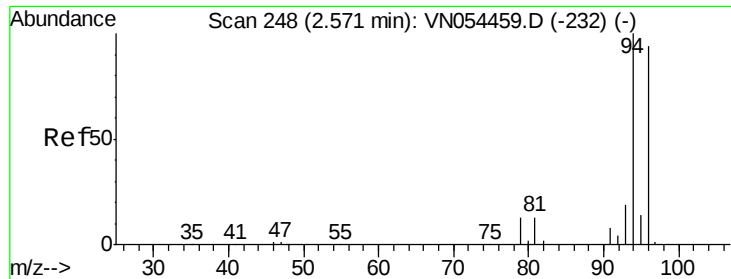
64 31.5 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 17.927 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

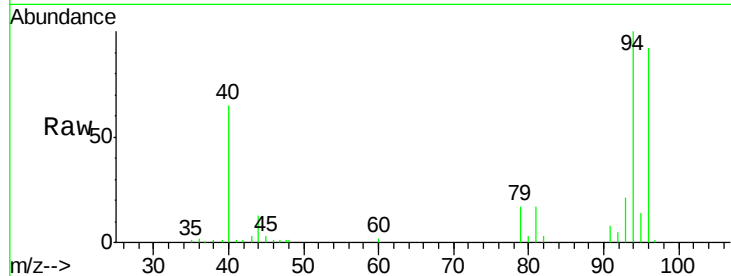
VN0323MBSD01

Tot Ion: 94 Resp: 60402

Ion Ratio Lower Upper

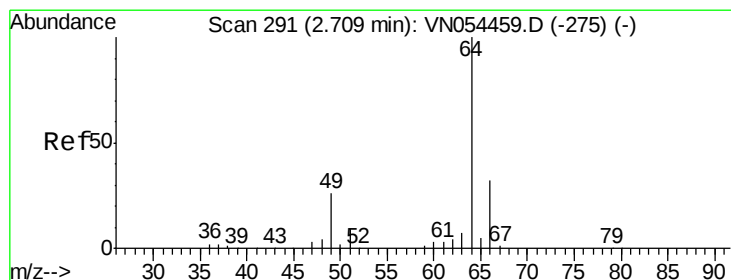
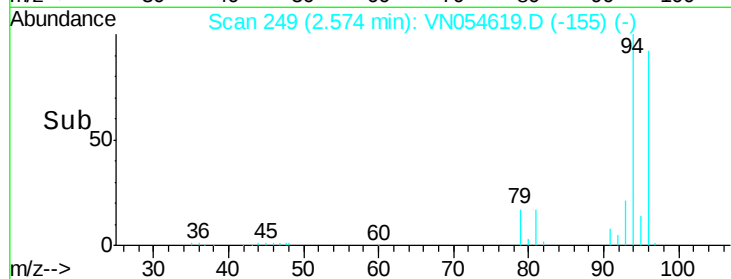
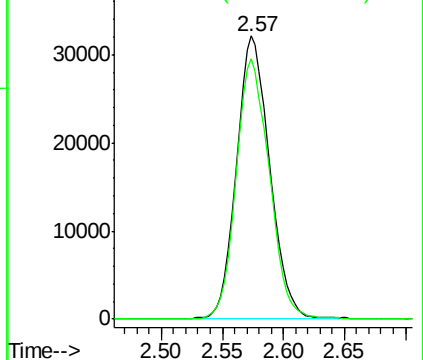
94 100

96 91.8 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 19.025 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054619.D

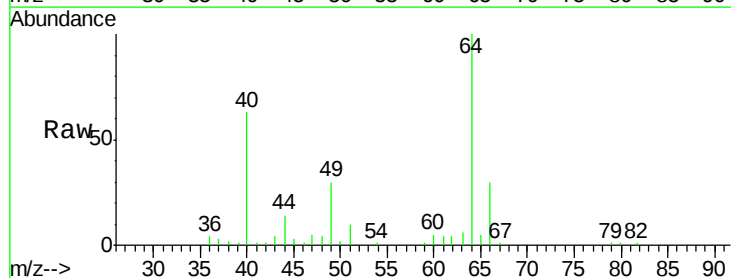
Acq: 23 Mar 2019 22:50

Tgt Ion: 64 Resp: 59458

Ion Ratio Lower Upper

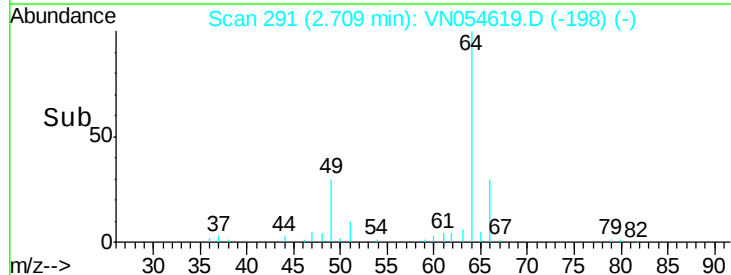
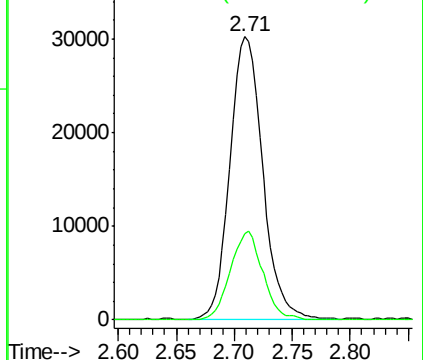
64 100

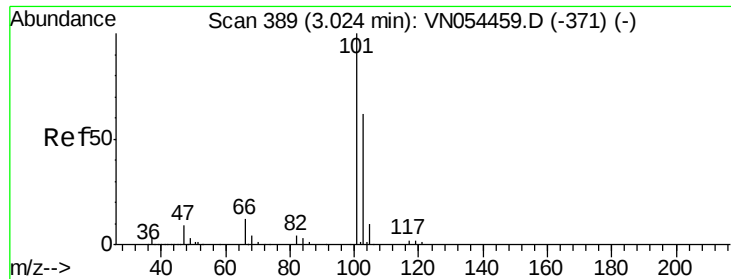
66 30.5 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO



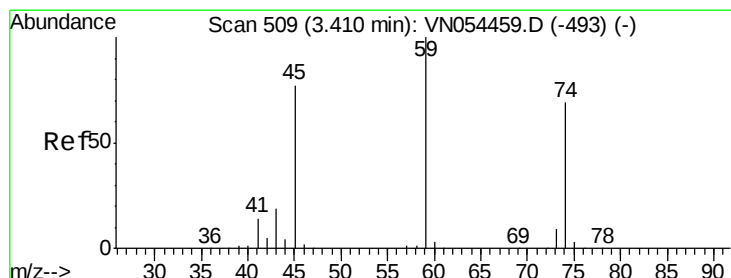
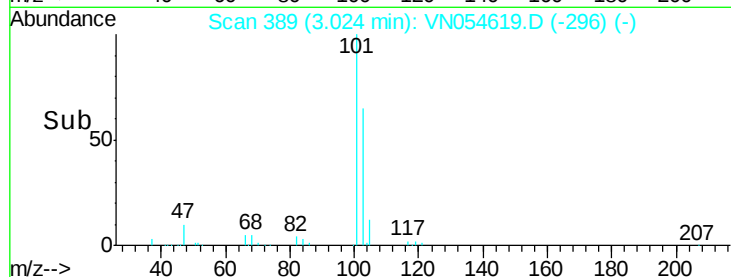
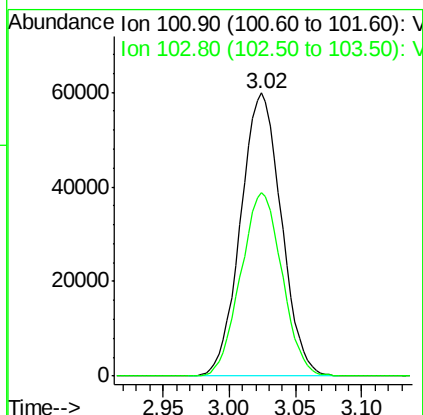
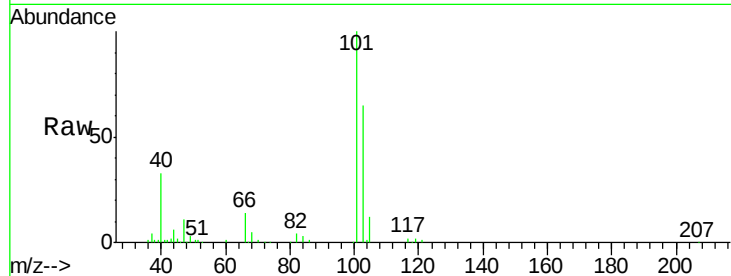


#7

Trichlorofluoromethane
 Concen: 20.223 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Instrument :
 MSVOA_N
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 VN0323MBSD01

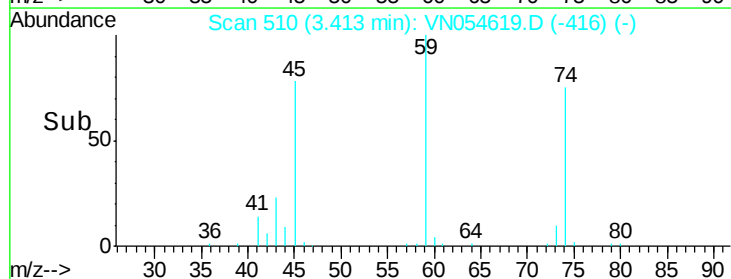
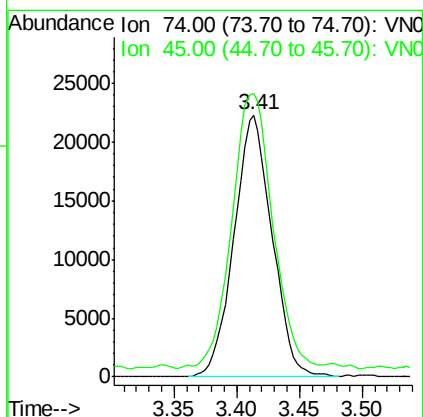
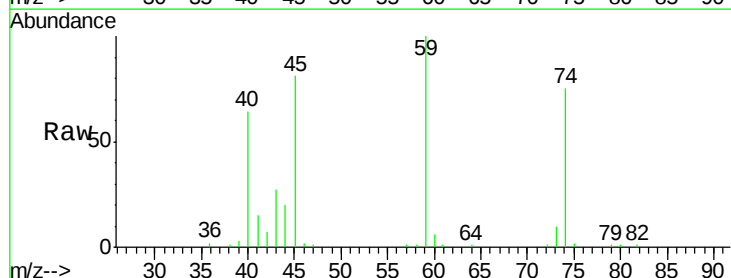
Tot Ion:101 Resp: 127970
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.4 77.2

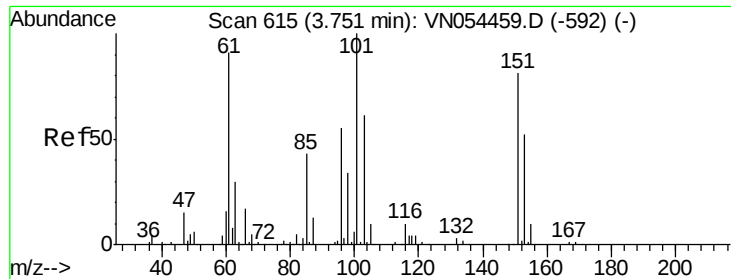


#8

Diethyl Ether
 Concen: 19.271 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Tgt Ion: 74 Resp: 46898
 Ion Ratio Lower Upper
 74 100
 45 112.9 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.784 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

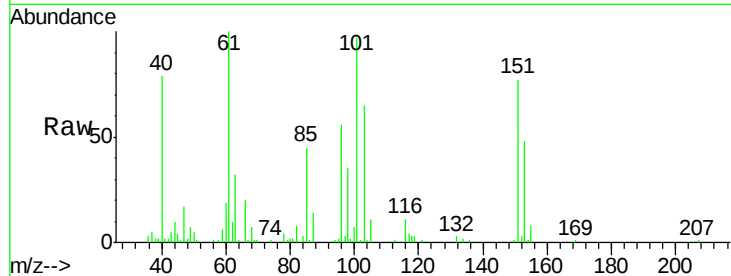
Tot Ion:101 Resp: 66137

Ion Ratio Lower Upper

101 100

85 46.1 32.4 48.6

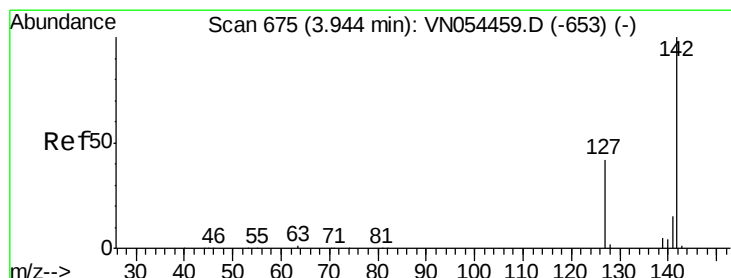
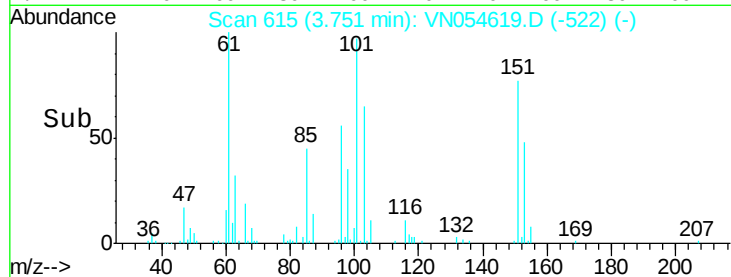
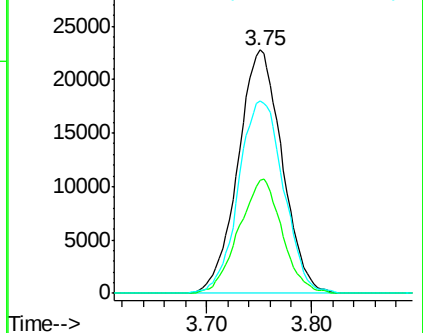
151 80.9 68.2 102.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 17.506 ug/l

RT: 3.94 min Scan# 675

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

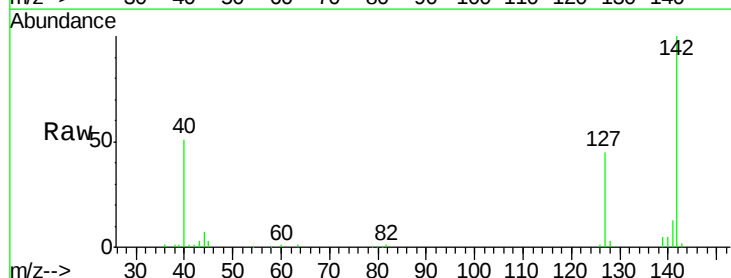
Tgt Ion:142 Resp: 95769

Ion Ratio Lower Upper

142 100

127 46.2 30.3 45.5#

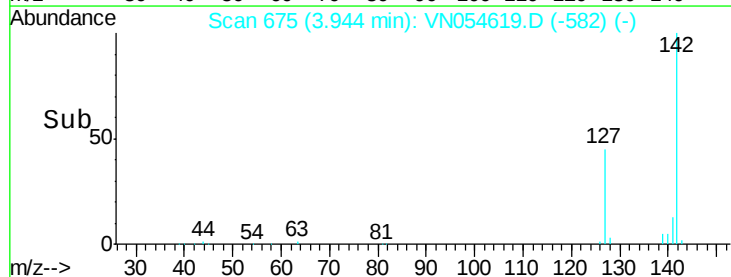
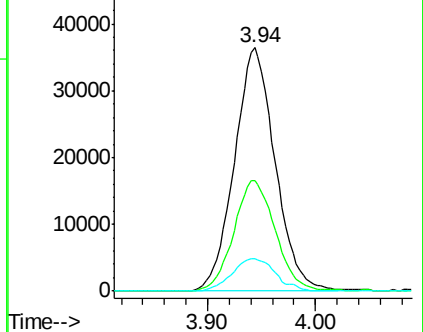
141 14.1 11.2 16.8

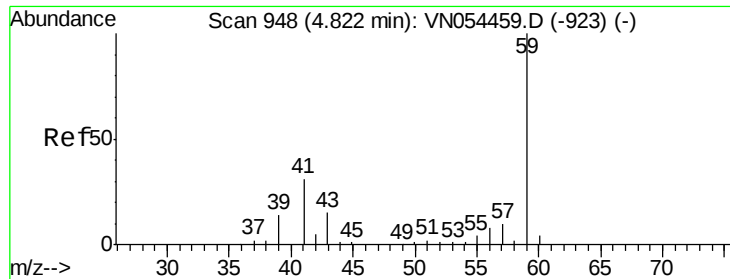


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



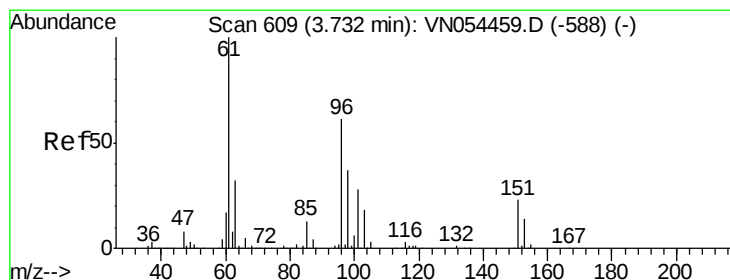
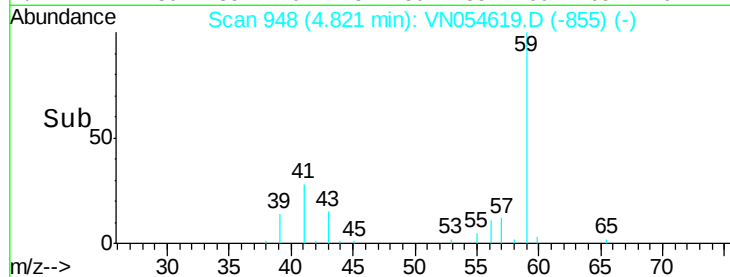
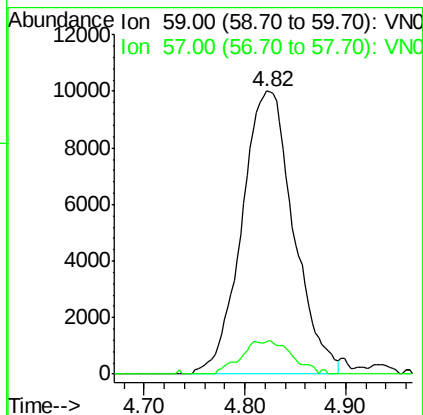
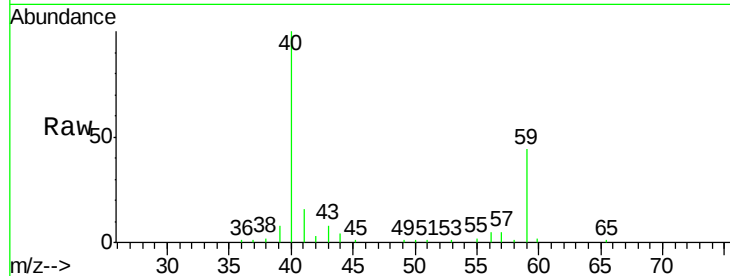


#11

Tert butyl alcohol
 Concen: 118.695 ug/l
 RT: 4.82 min Scan# 948
 Delta R.T. 0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323MBSD01

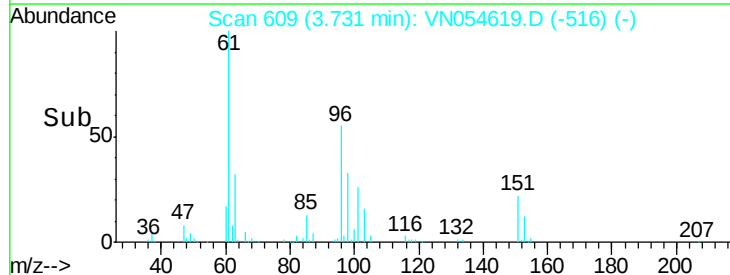
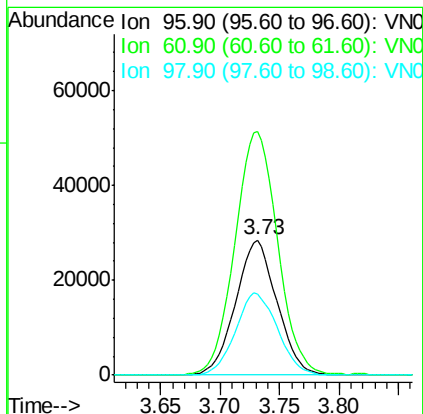
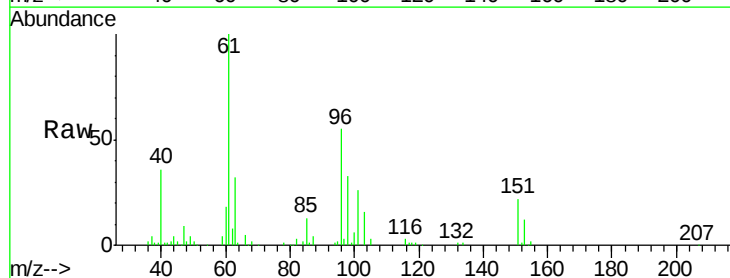
Tot Ion: 59 Resp: 35665
 Ion Ratio Lower Upper
 59 100
 57 5.3 9.0 13.6#

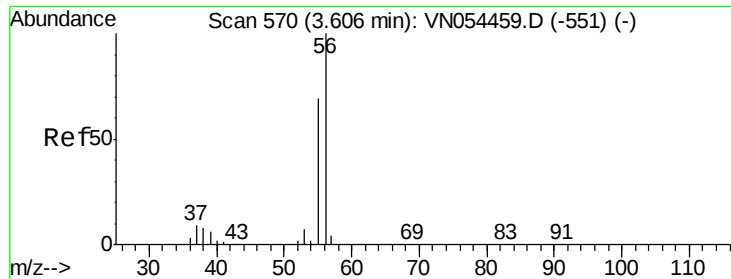


#12

1,1-Dichloroethene
 Concen: 17.794 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Tgt Ion: 96 Resp: 68481
 Ion Ratio Lower Upper
 96 100
 61 179.4 116.5 174.7#
 98 59.9 51.0 76.4





#13

Acrolein

Concen: 23.576 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

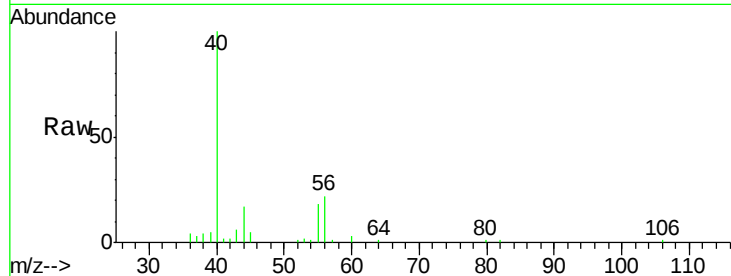
VN0323MBSD01

Tot Ion: 56 Resp: 9776

Ion Ratio Lower Upper

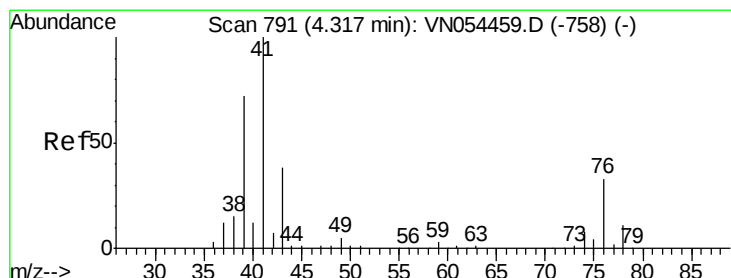
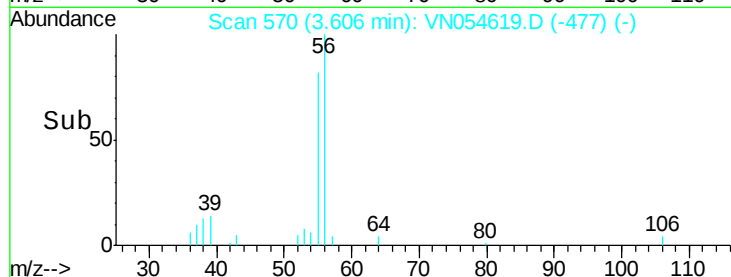
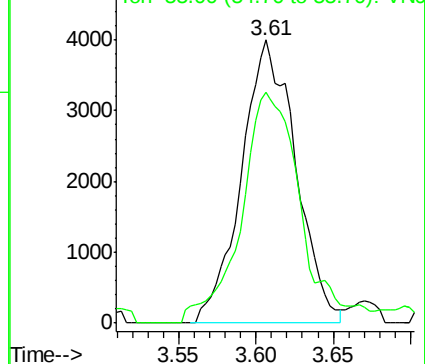
56 100

55 86.8 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 21.404 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

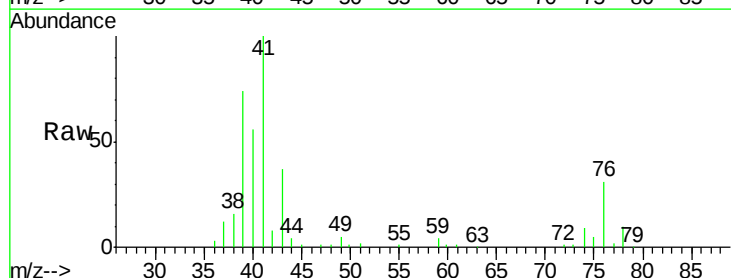
Tgt Ion: 41 Resp: 155116

Ion Ratio Lower Upper

41 100

39 72.9 58.2 87.4

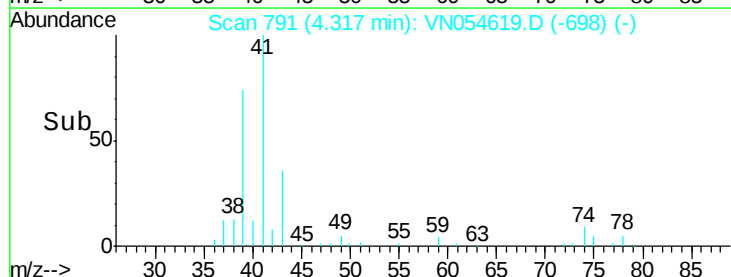
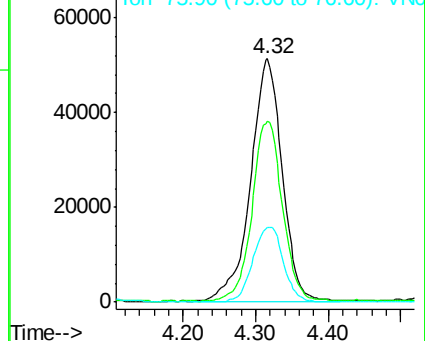
76 29.8 31.7 47.5#

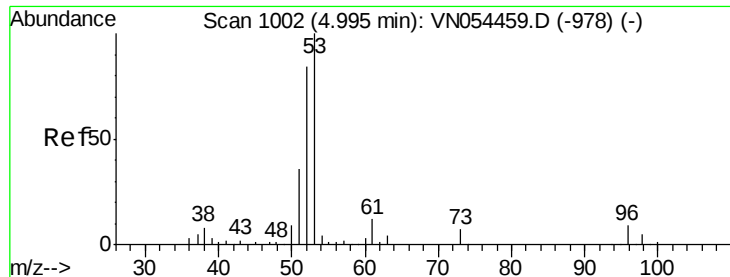


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 116.651 ug/l

RT: 5.00 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

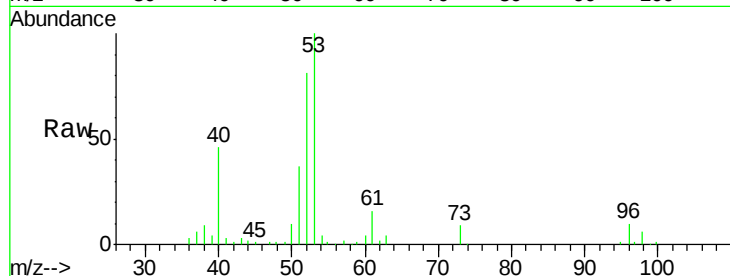
Tot Ion: 53 Resp: 174549

Ion Ratio Lower Upper

53 100

52 83.2 66.4 99.6

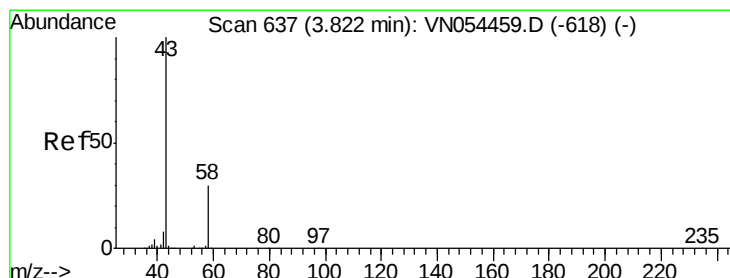
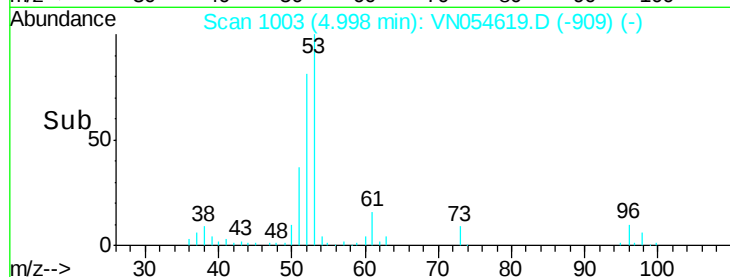
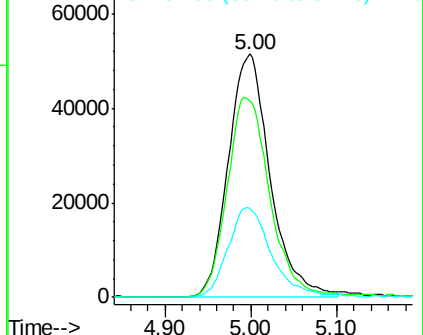
51 38.7 29.6 44.4



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



#16

Acetone

Concen: 84.073 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054619.D

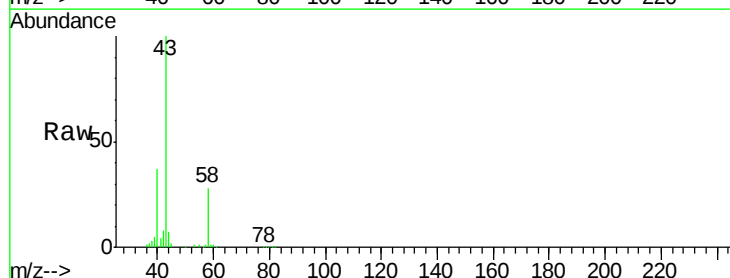
Acq: 23 Mar 2019 22:50

Tgt Ion: 43 Resp: 125450

Ion Ratio Lower Upper

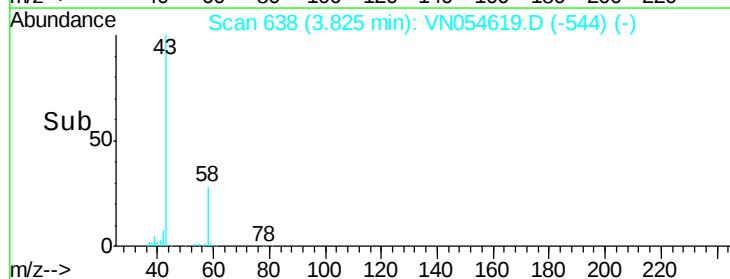
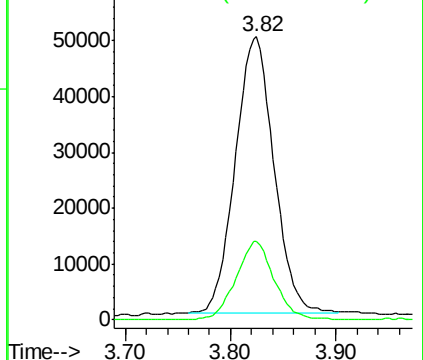
43 100

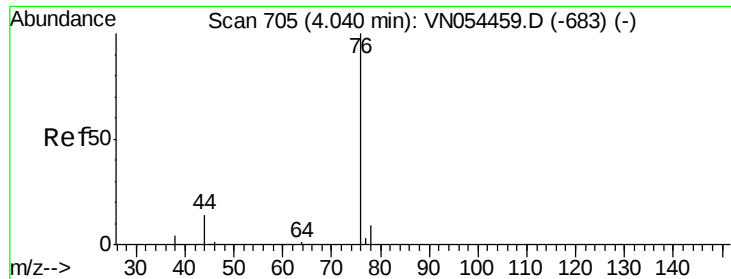
58 28.6 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

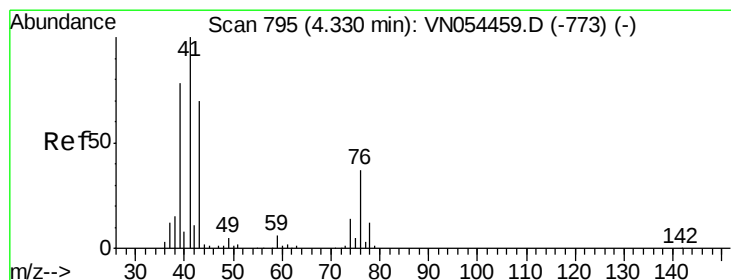
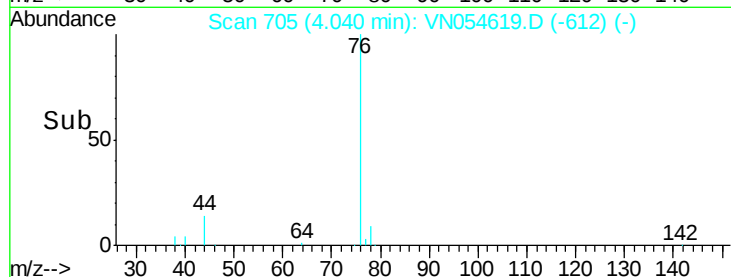
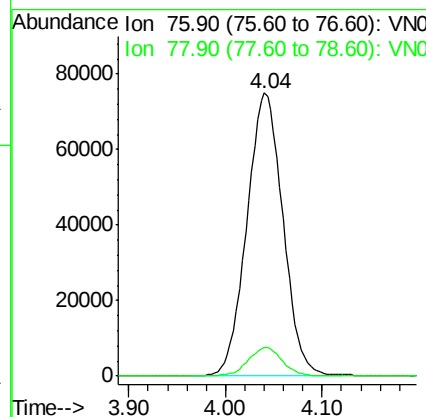
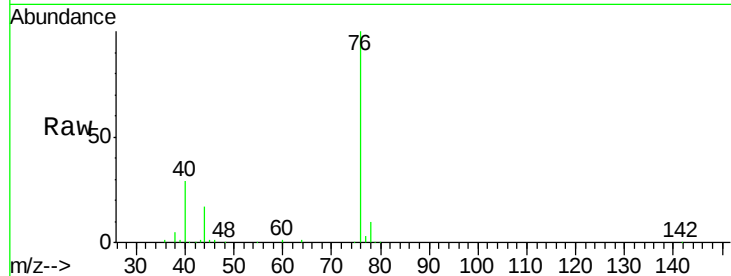




#17
Carbon Disulfide
Concen: 18.847 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

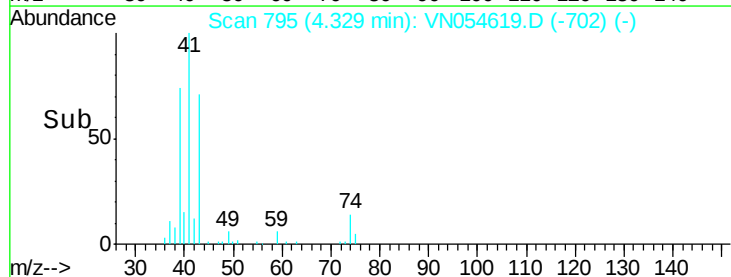
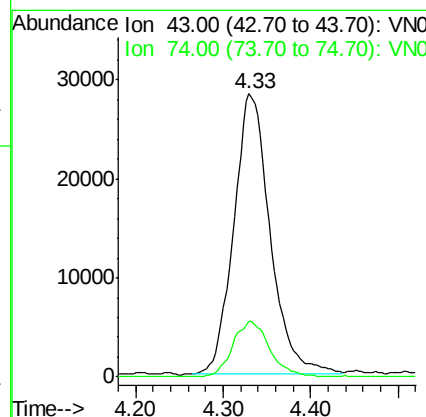
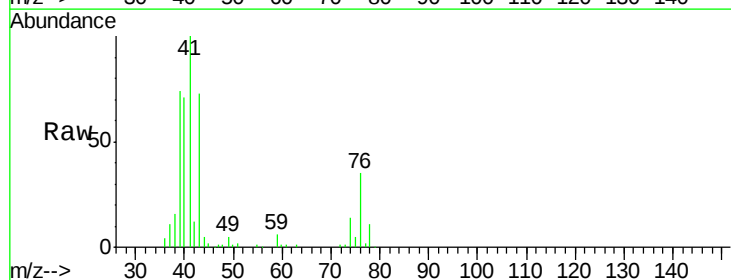
Instrument :
MSVOA_N
ClientSampleId :
VN0323MBSD01

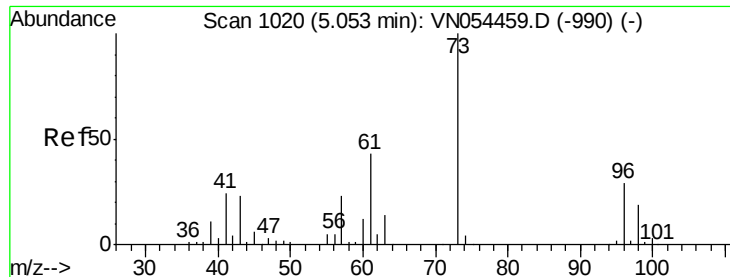
Tot Ion: 76 Resp: 194349
Ion Ratio Lower Upper
76 100
78 10.1 7.5 11.3



#18
Methyl Acetate
Concen: 24.686 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion: 43 Resp: 82100
Ion Ratio Lower Upper
43 100
74 19.9 20.8 31.2#

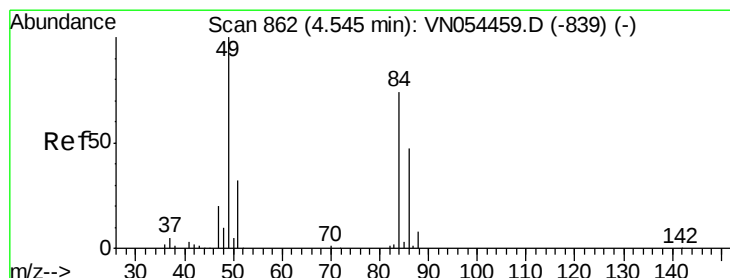
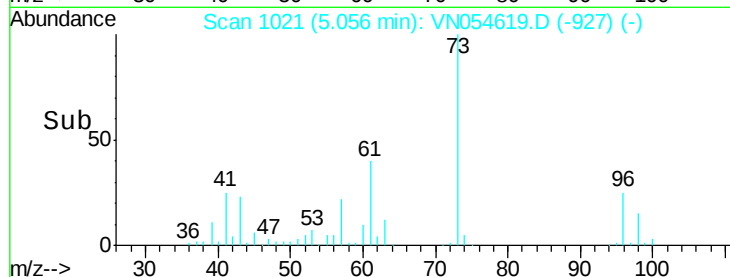
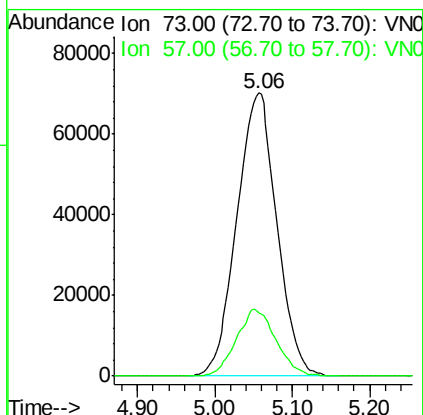
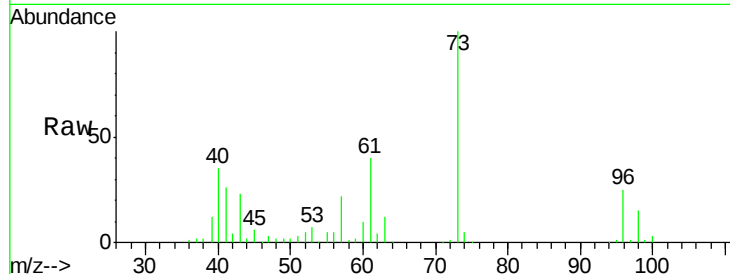




#19
Methvl tert-butvl Ether
Concen: 22.551 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

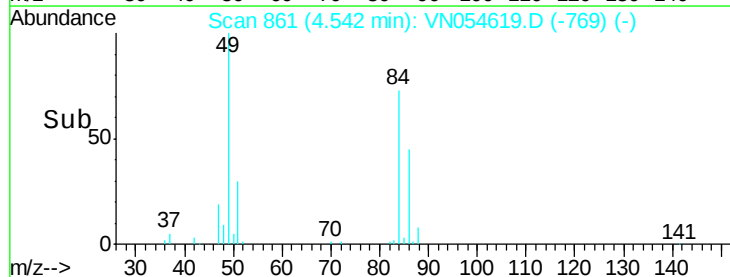
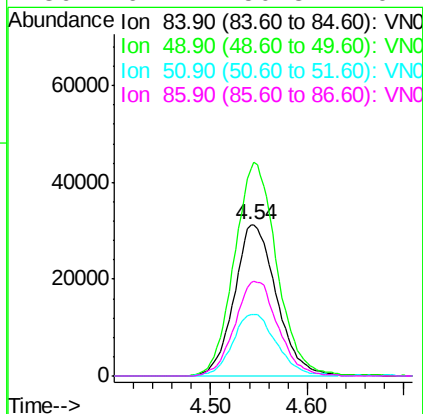
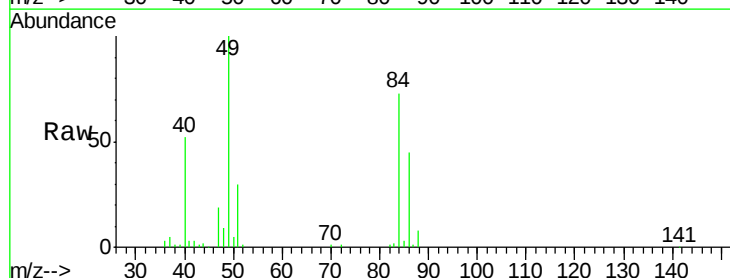
Instrument :
MSVOA_N
ClientSampleId :
VN0323MBSD01

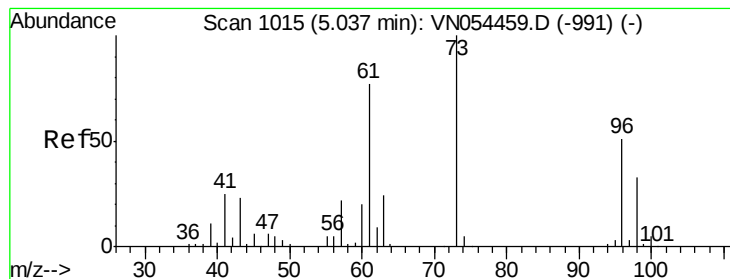
Tot Ion: 73 Resp: 253296
Ion Ratio Lower Upper
73 100
57 22.3 16.8 25.2



#20
Methylene Chloride
Concen: 21.534 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion: 84 Resp: 94717
Ion Ratio Lower Upper
84 100
49 137.4 89.7 134.5#
51 40.8 28.2 42.4
86 61.4 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 21.978 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBS01

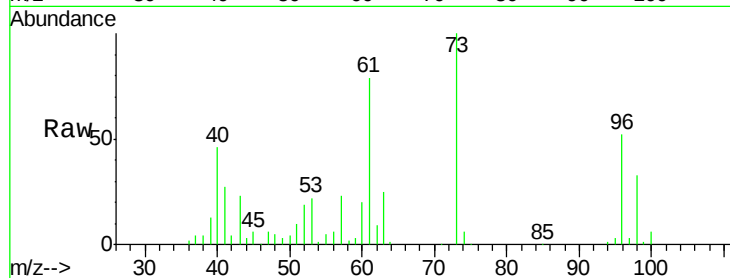
Tot Ion: 96 Resp: 86372

Ion Ratio Lower Upper

96 100

61 151.9 102.8 154.2

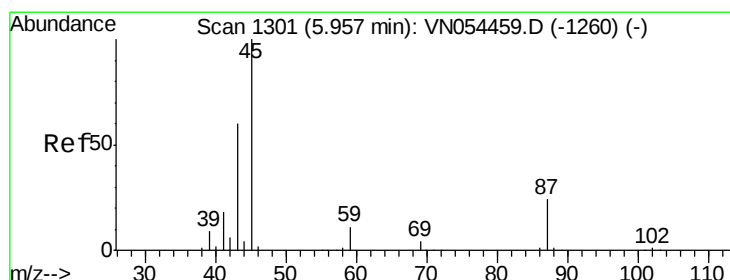
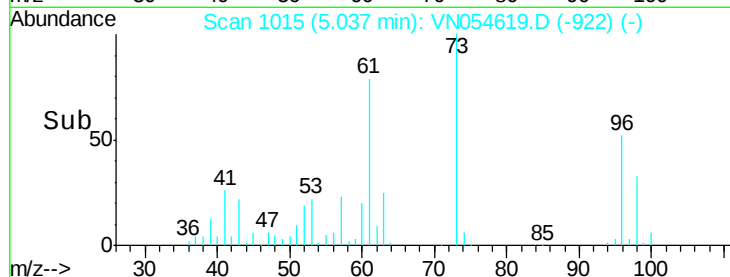
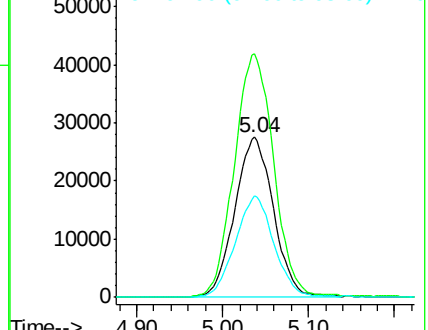
98 63.2 50.0 75.0



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 23.602 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Tgt Ion: 45 Resp: 337382

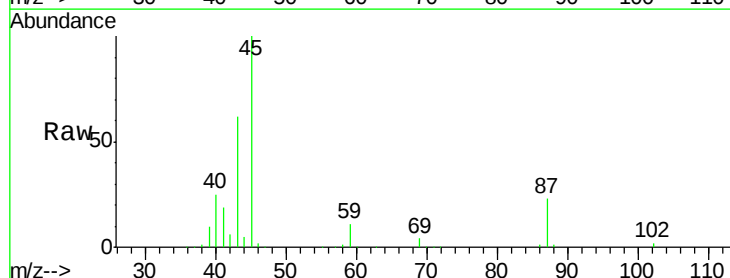
Ion Ratio Lower Upper

45 100

43 60.5 48.2 72.2

87 22.3 24.9 37.3#

59 10.4 9.5 14.3

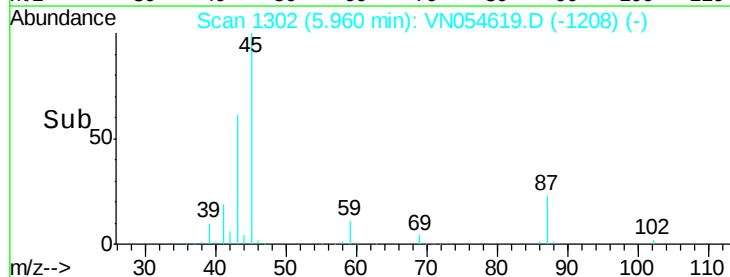
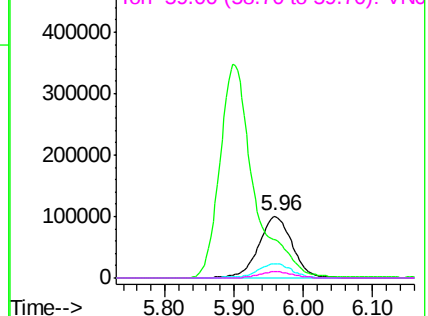


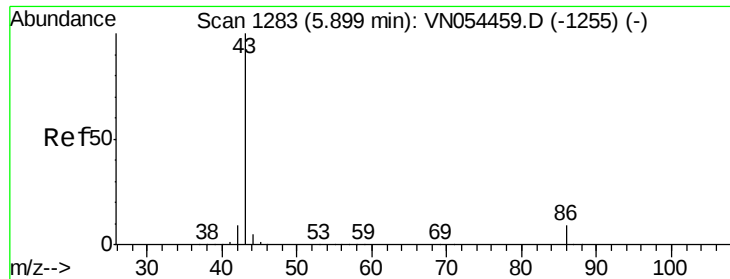
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 118.582 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

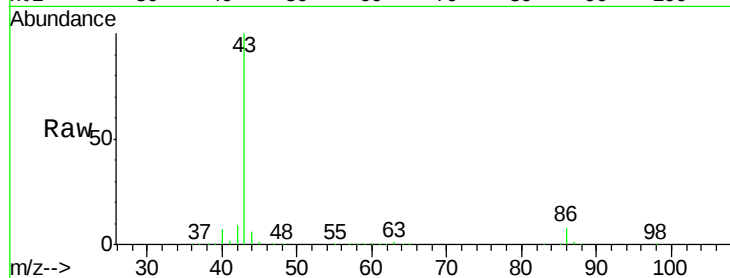
VN0323MBSD01

Tot Ion: 43 Resp: 1197204

Ion Ratio Lower Upper

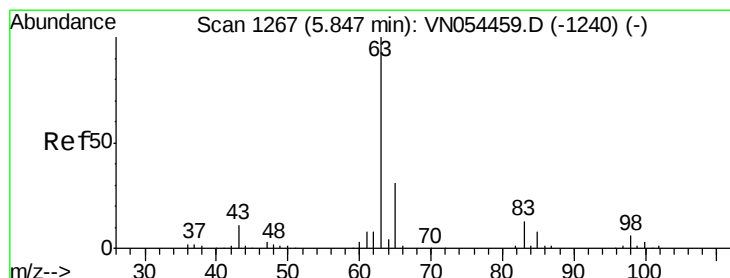
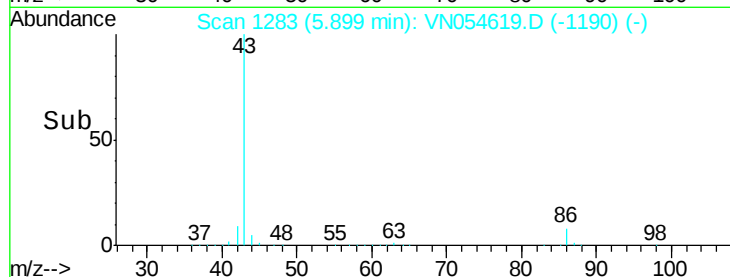
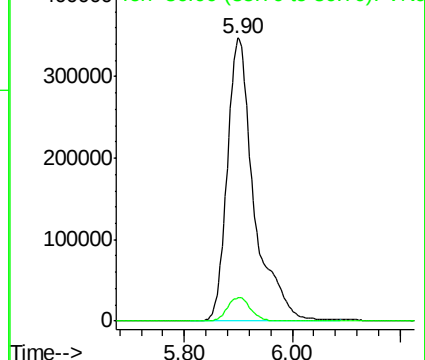
43 100

86 8.3 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 22.705 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

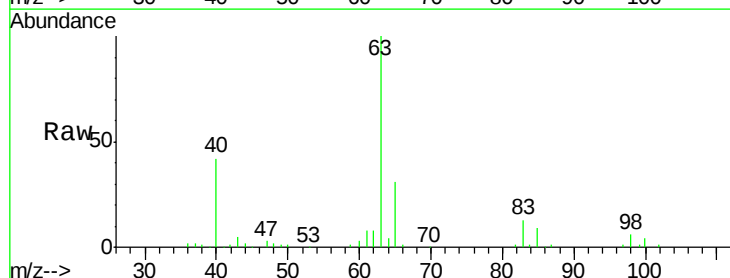
Tgt Ion: 63 Resp: 174755

Ion Ratio Lower Upper

63 100

98 6.1 3.5 10.5

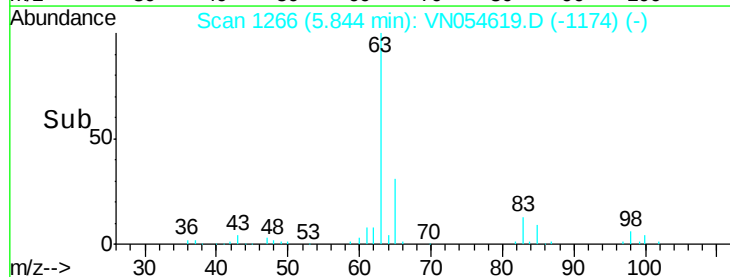
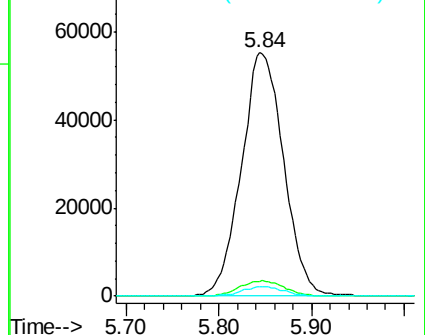
100 3.8 2.0 6.0

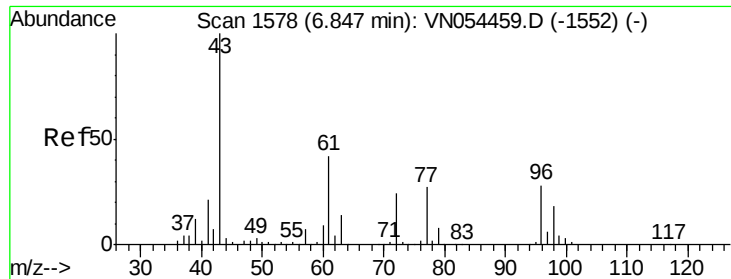


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 112.543 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

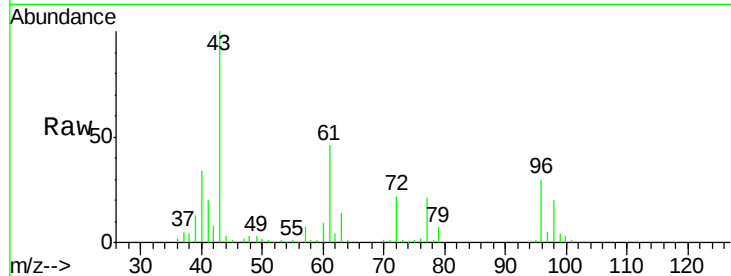
VN0323MBSD01

Tot Ion: 43 Resp: 215119

Ion Ratio Lower Upper

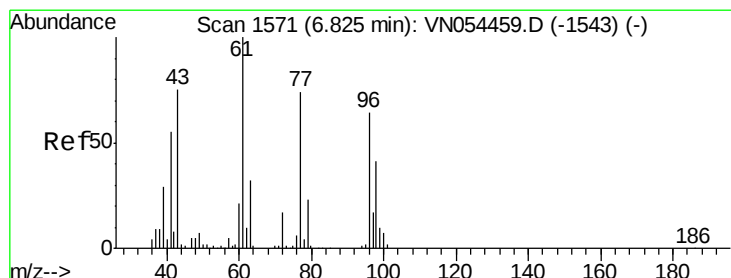
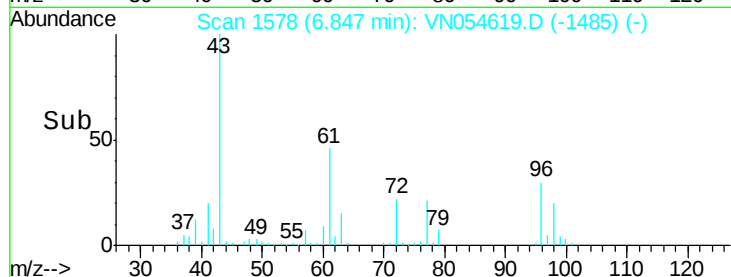
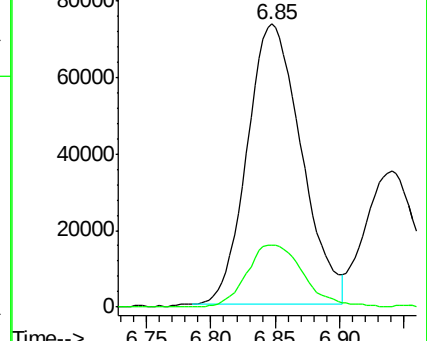
43 100

72 22.2 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 17.037 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054619.D

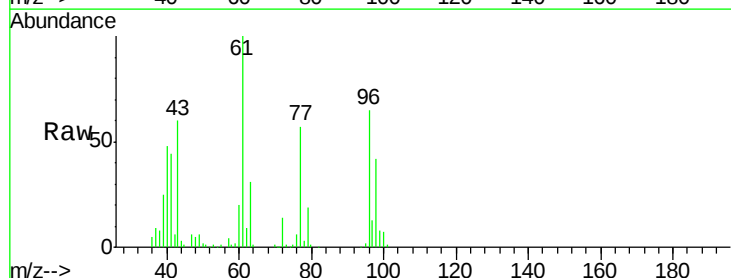
Acq: 23 Mar 2019 22:50

Tgt Ion: 77 Resp: 93475

Ion Ratio Lower Upper

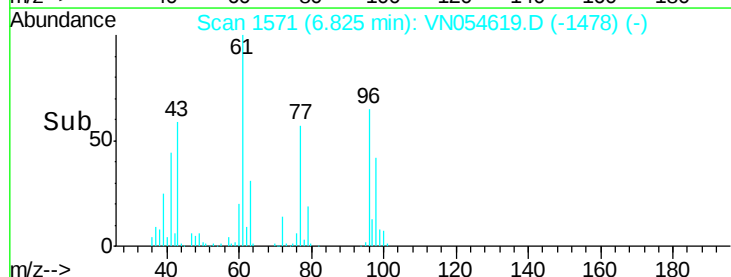
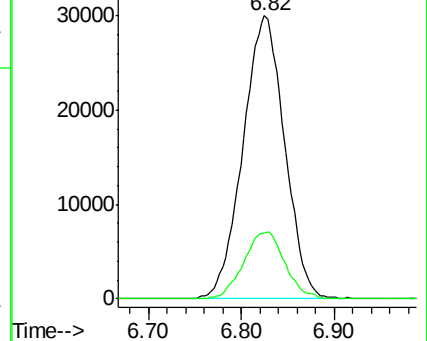
77 100

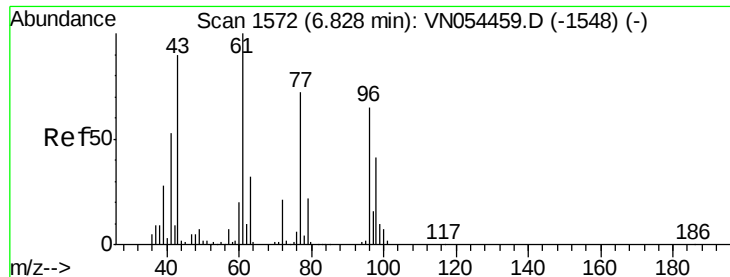
97 23.4 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 21.120 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBS01

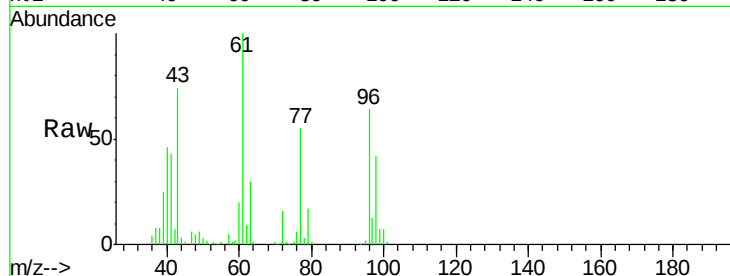
Tot Ion: 96 Resp: 98998

Ion Ratio Lower Upper

96 100

61 157.1 0.0 273.0

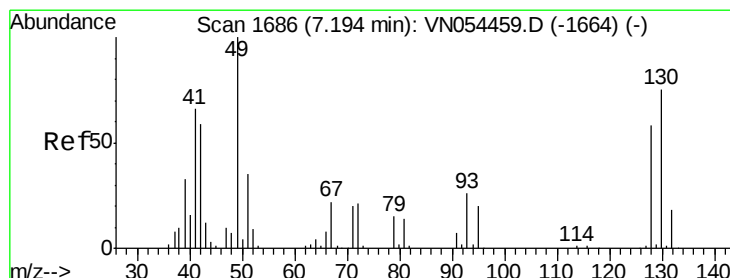
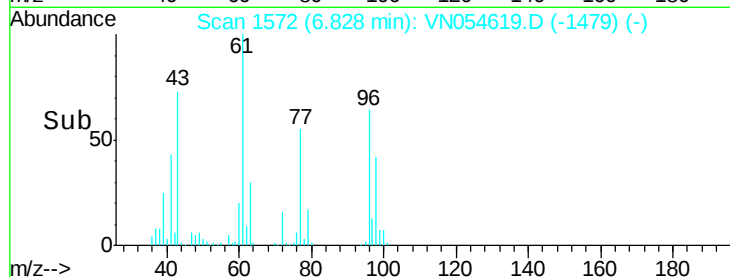
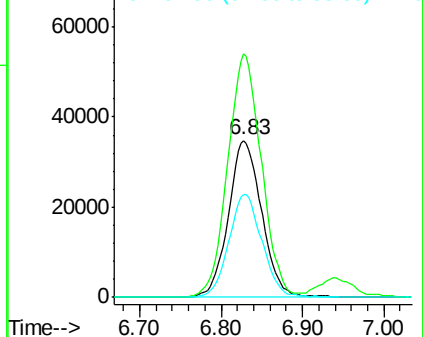
98 65.5 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 22.832 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

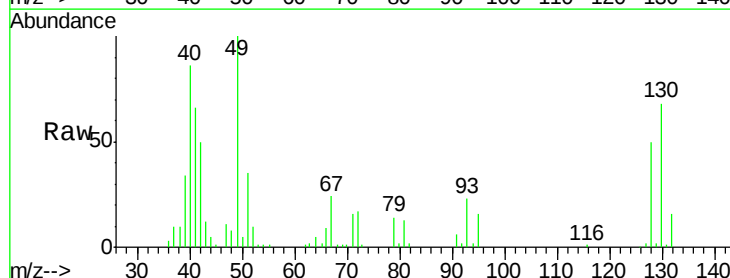
Tgt Ion: 49 Resp: 86500

Ion Ratio Lower Upper

49 100

129 1.3 0.0 4.6

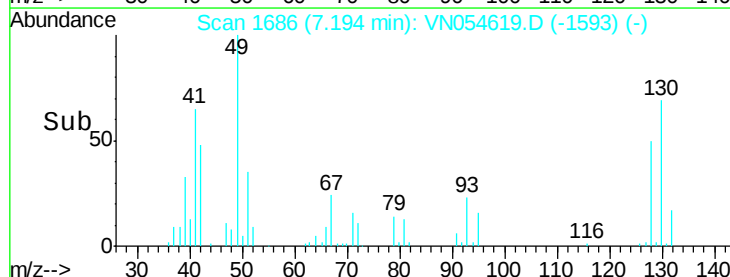
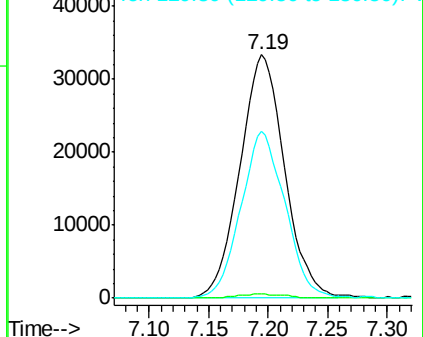
130 67.9 76.7 115.1#

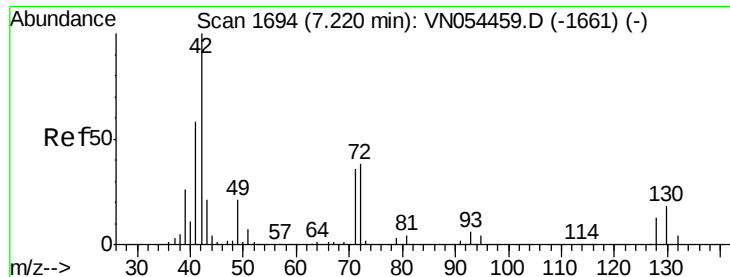


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 123.217 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampled :

VN0323MBS01

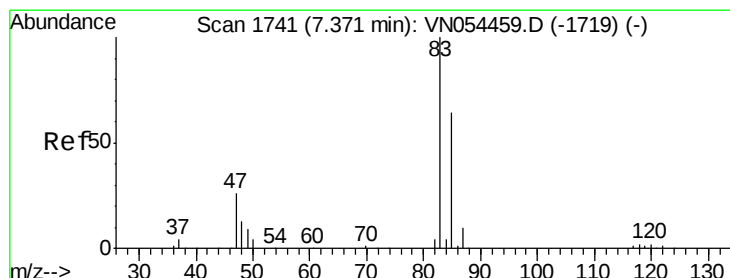
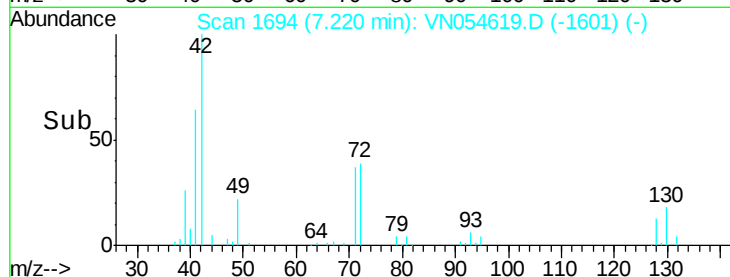
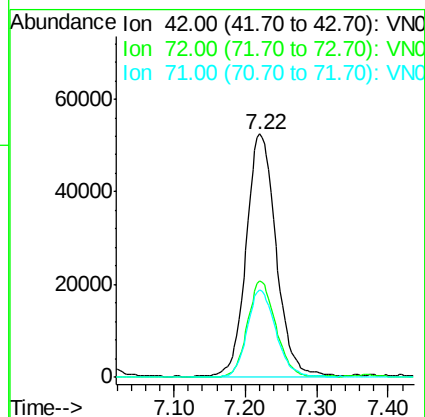
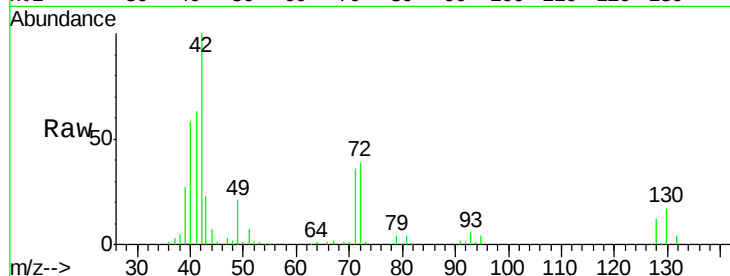
Tot Ion: 42 Resp: 152838

Ion Ratio Lower Upper

42 100

72 37.7 37.8 56.6#

71 34.3 36.2 54.2#



#30

Chloroform

Concen: 22.628 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN054619.D

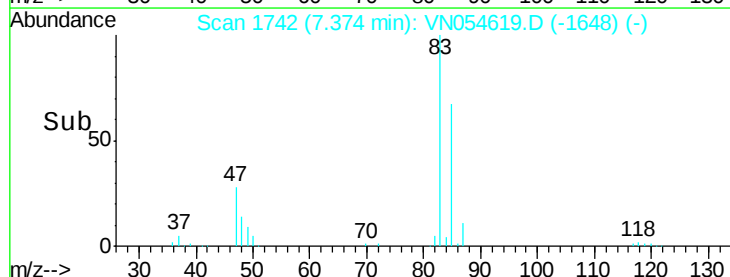
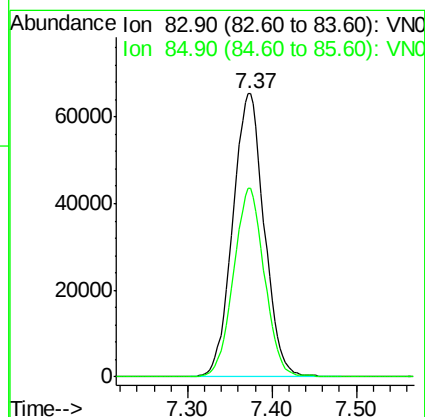
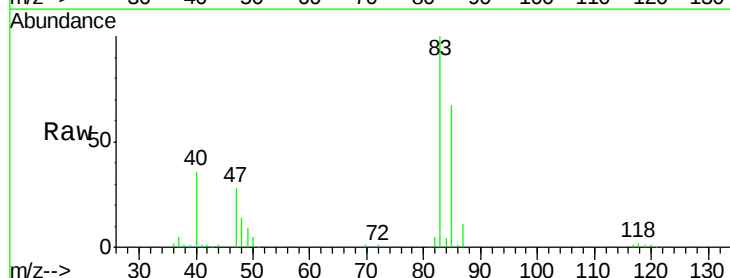
Acq: 23 Mar 2019 22:50

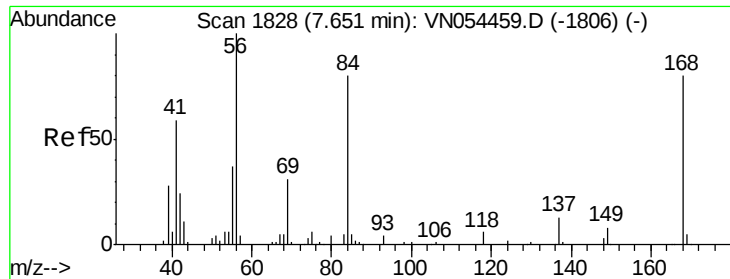
Tgt Ion: 83 Resp: 169966

Ion Ratio Lower Upper

83 100

85 66.7 52.2 78.4





#31

Cyclohexane

Concen: 21.220 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

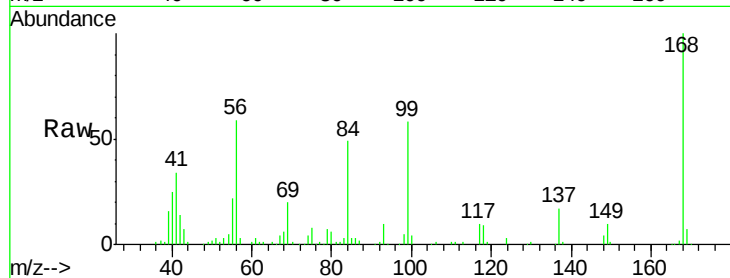
Tot Ion: 56 Resp: 164384

Ion Ratio Lower Upper

56 100

69 34.1 27.8 41.6

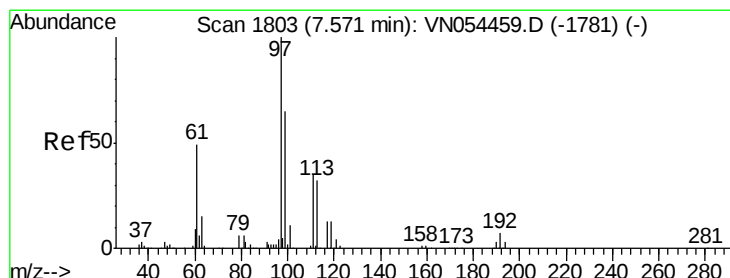
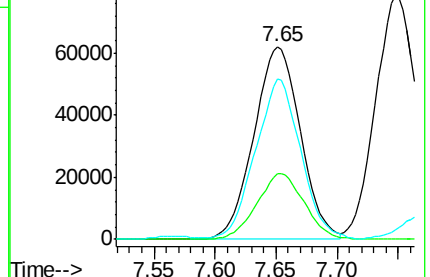
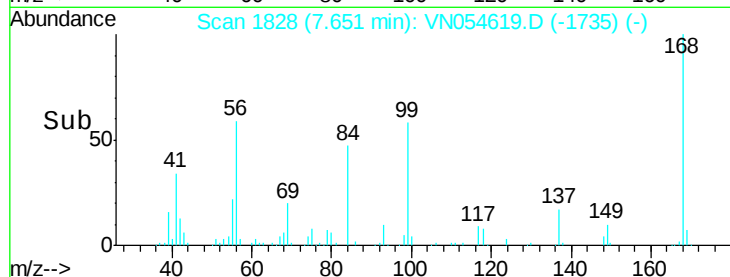
84 82.1 74.6 111.8



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 22.398 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

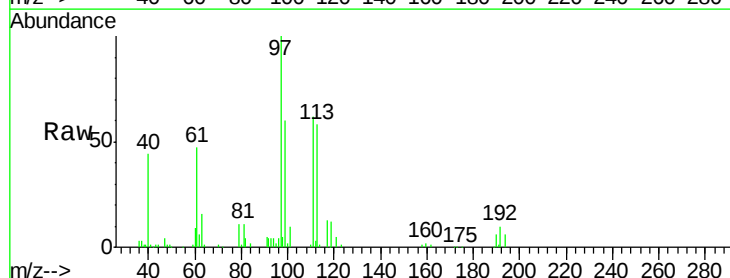
Tgt Ion: 97 Resp: 138799

Ion Ratio Lower Upper

97 100

99 63.8 51.5 77.3

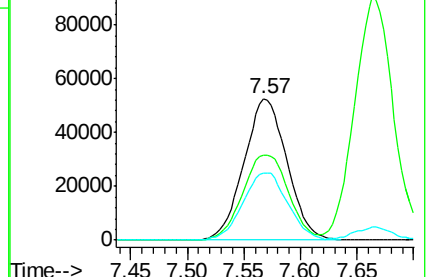
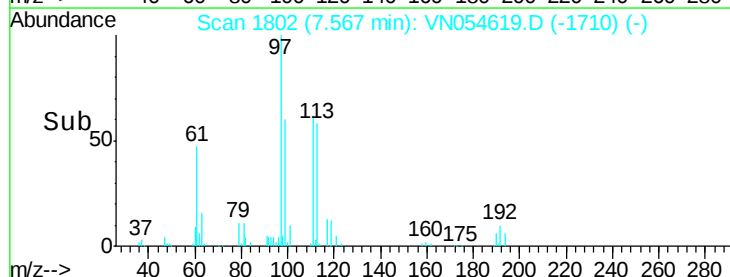
61 49.3 33.6 50.4

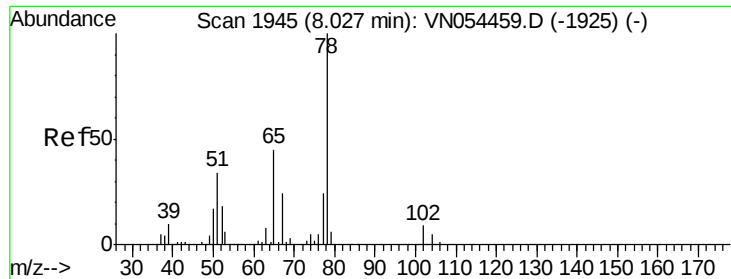


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

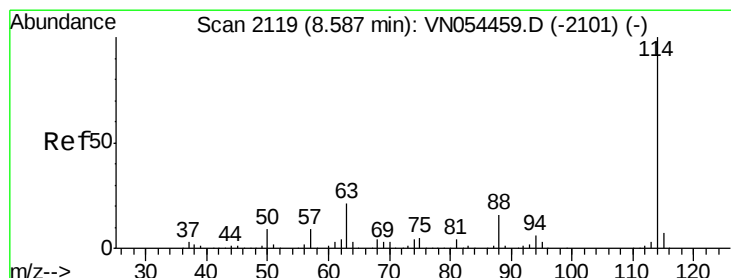
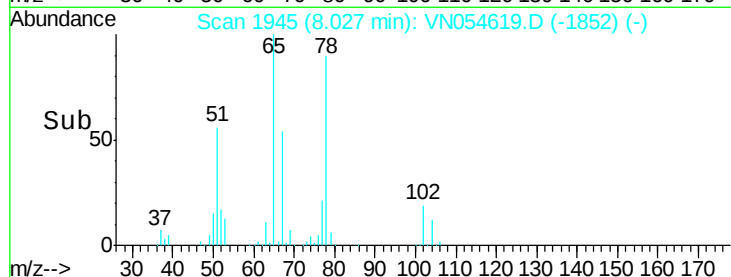
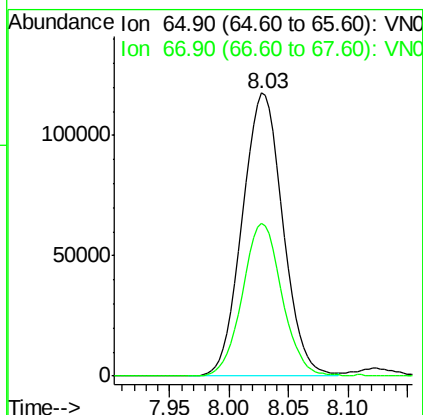
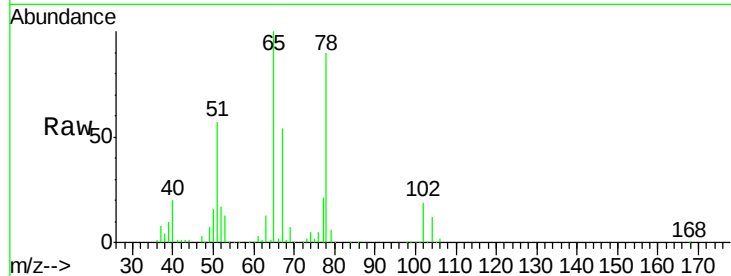




#33
 1,2-Dichloroethane-d4
 Concen: 56.157 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

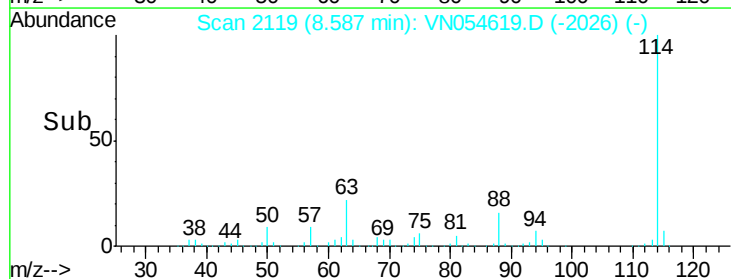
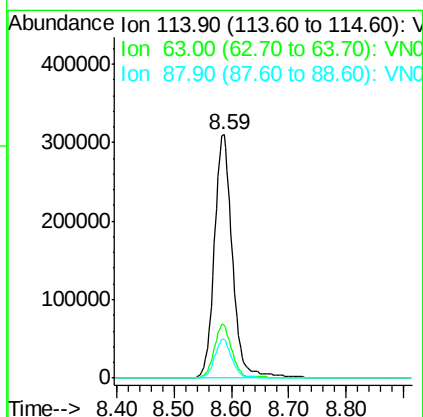
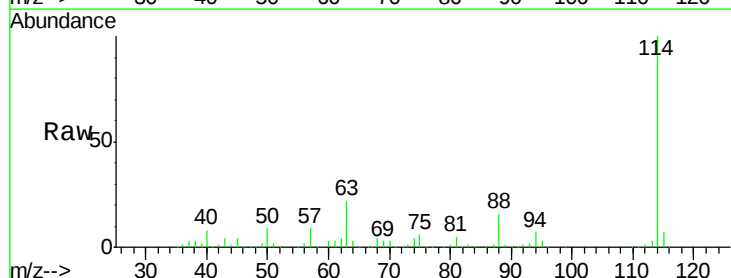
Instrument :
 MSVOA_N
 ClientSampled :
 VN0323MBSD01

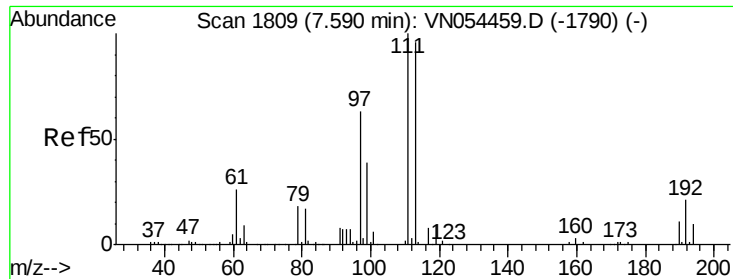
Tot Ion: 65 Resp: 278712
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Tgt Ion: 114 Resp: 681323
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 35.2
 88 16.0 0.0 30.2

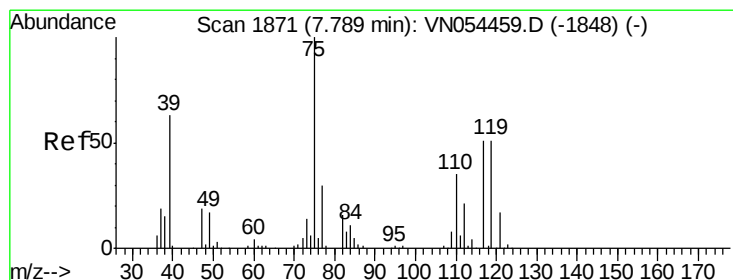
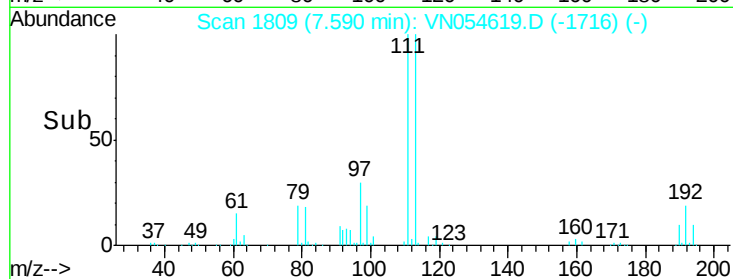
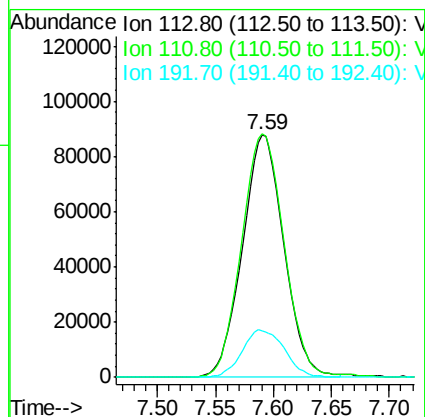
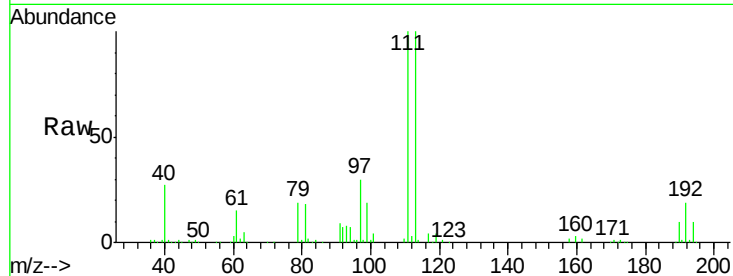




#35
 Dibromofluoromethane
 Concen: 49.841 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

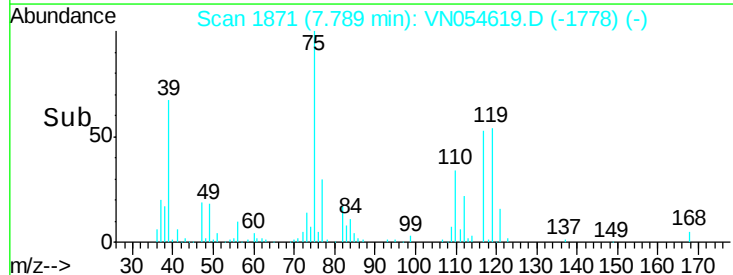
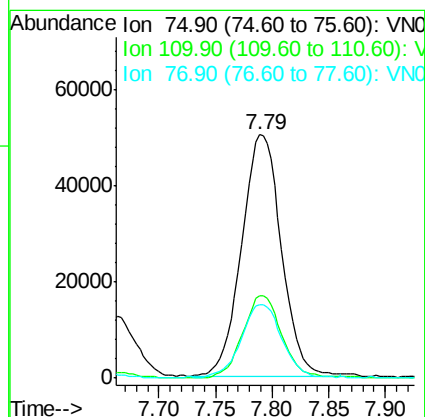
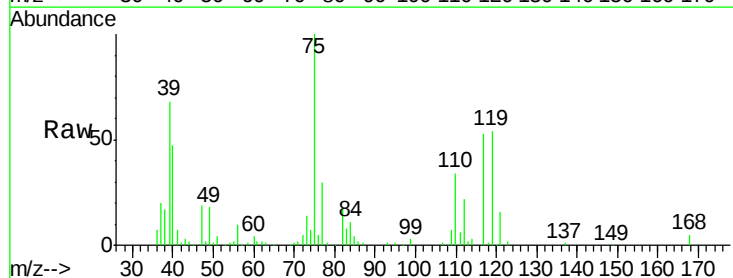
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323MBSD01

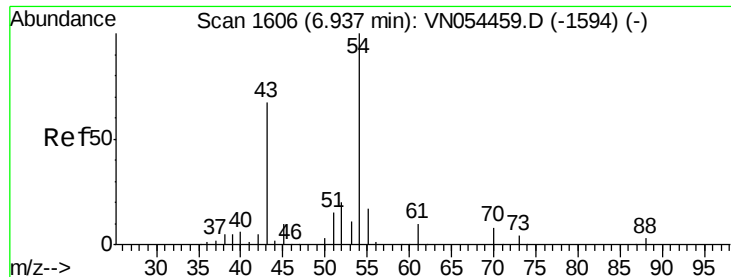
Tot Ion:113 Resp: 218773
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.2 123.4
 192 20.0 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 19.262 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Tgt Ion: 75 Resp: 122706
 Ion Ratio Lower Upper
 75 100
 110 33.7 19.1 57.5
 77 31.7 25.0 37.4

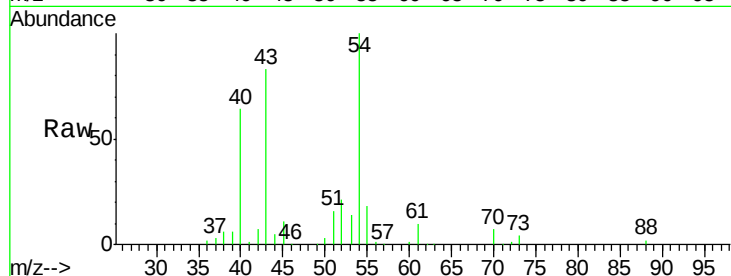




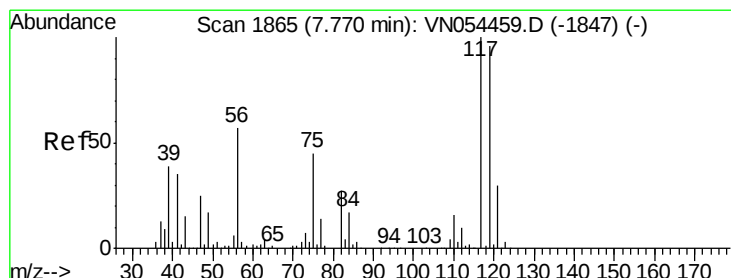
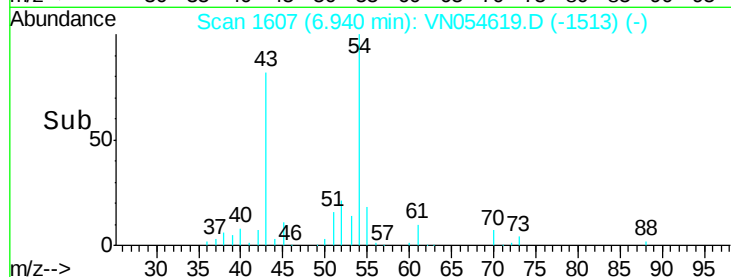
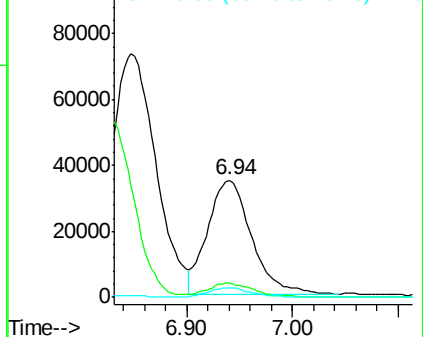
#37
Ethyl Acetate
Concen: 22.098 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Instrument :
MSVOA_N
ClientSampleId :
VN0323MBSD01

Tot Ion: 43 Resp: 100124
Ion Ratio Lower Upper
43 100
61 13.4 11.8 17.6
70 8.5 8.4 12.6

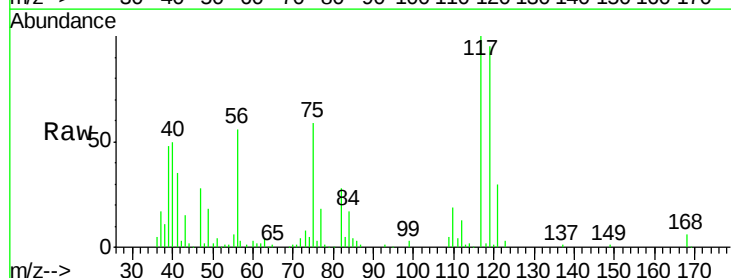


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

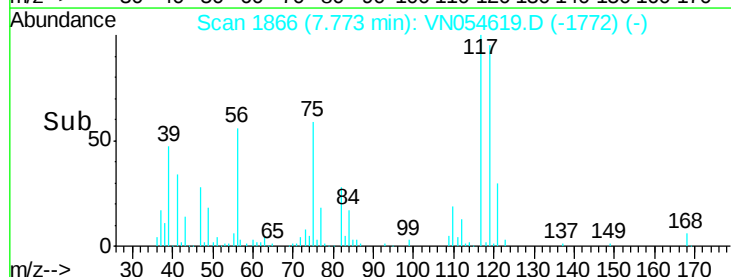
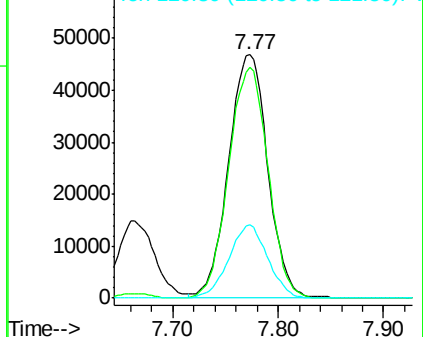


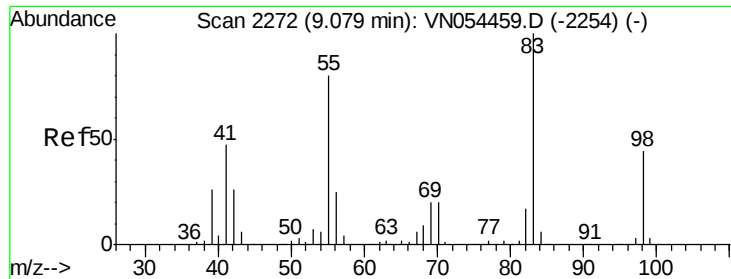
#38
Carbon Tetrachloride
Concen: 19.575 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion: 117 Resp: 121184
Ion Ratio Lower Upper
117 100
119 94.6 76.3 114.5
121 30.1 24.6 36.8



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

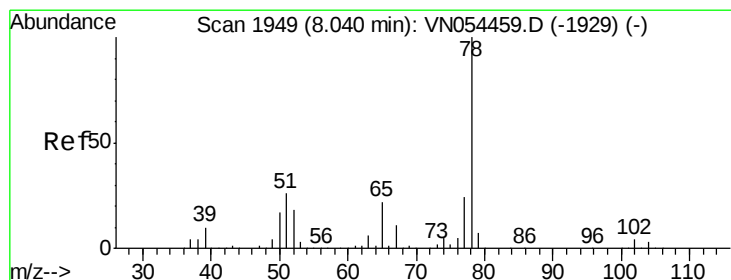
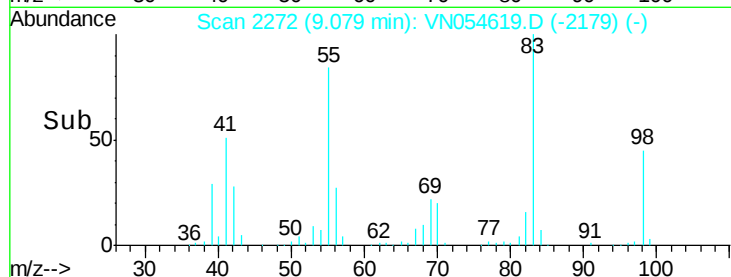
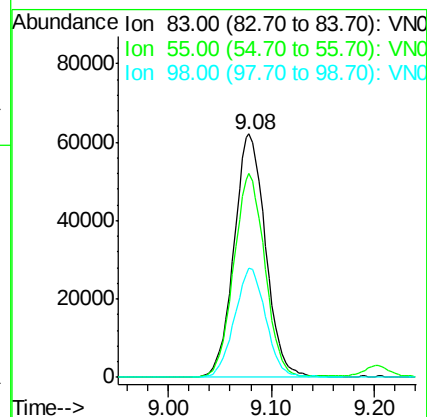
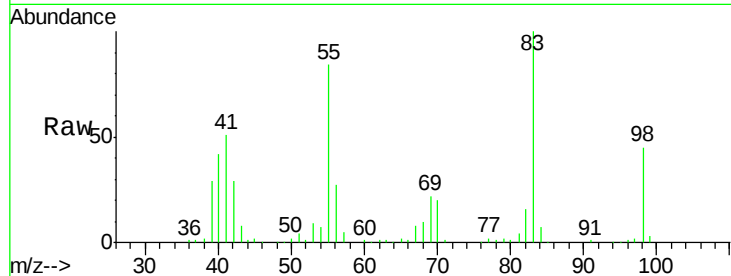




#39
Methvlcvclohexane
Concen: 18.156 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

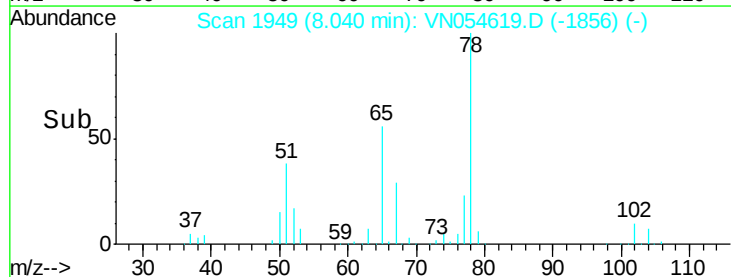
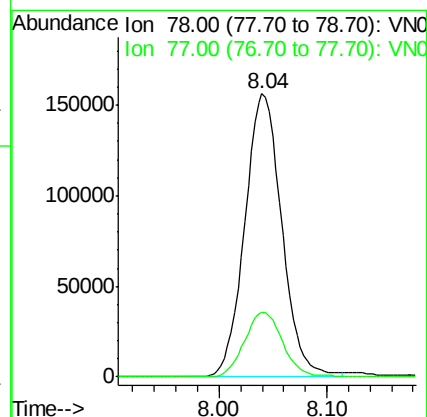
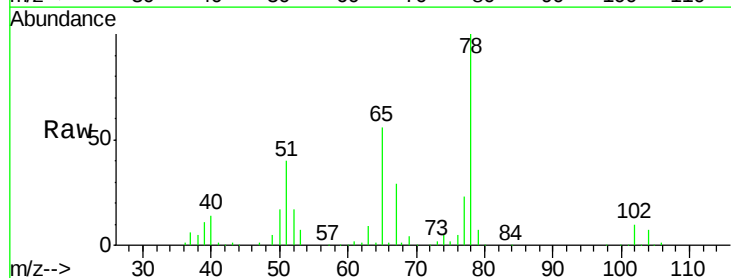
Instrument :
MSVOA_N
ClientSampleId :
VN0323MBSD01

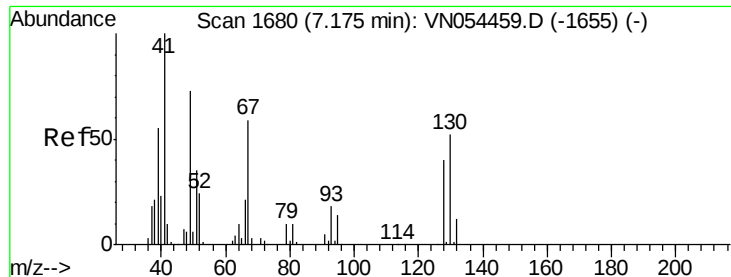
Tot Ion: 83 Resp: 132301
Ion Ratio Lower Upper
83 100
55 83.7 56.6 84.8
98 44.7 38.4 57.6



#40
Benzene
Concen: 20.466 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion: 78 Resp: 372828
Ion Ratio Lower Upper
78 100
77 22.9 19.1 28.7

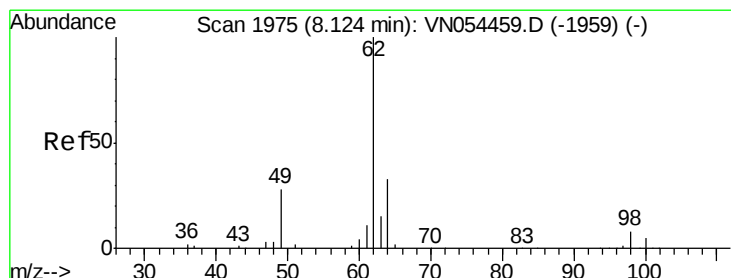
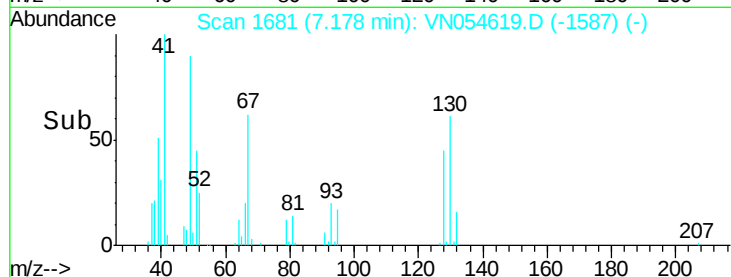
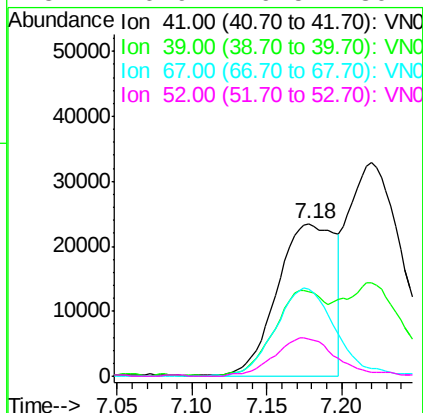
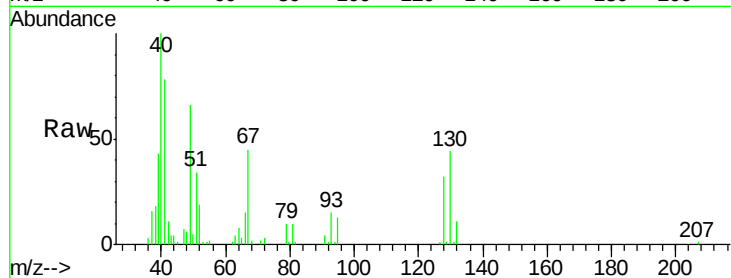




#41
Methacrylonitrile
Concen: 22.920 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

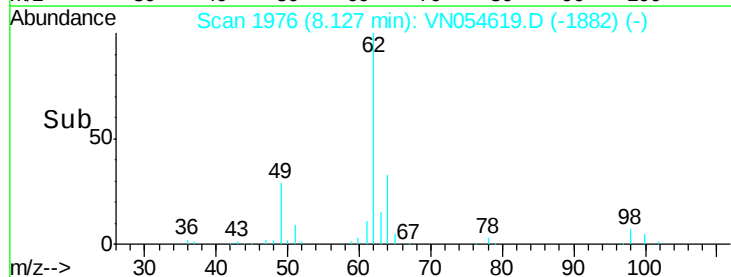
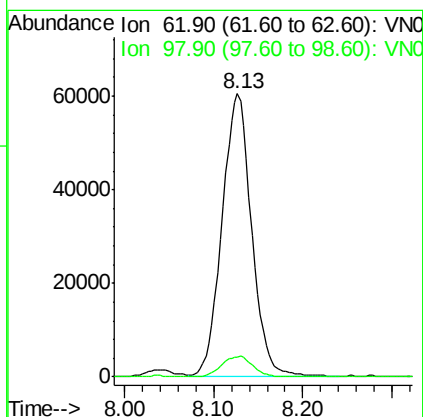
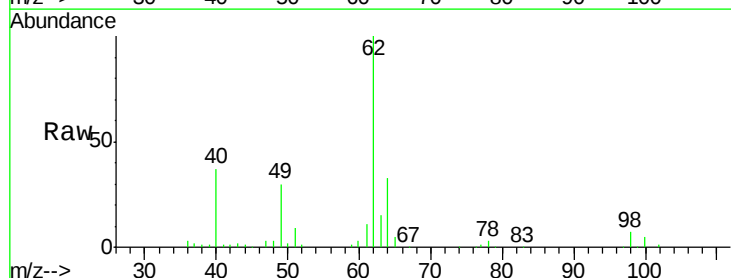
Instrument :
MSVOA_N
ClientSampleId :
VN0323MBSD01

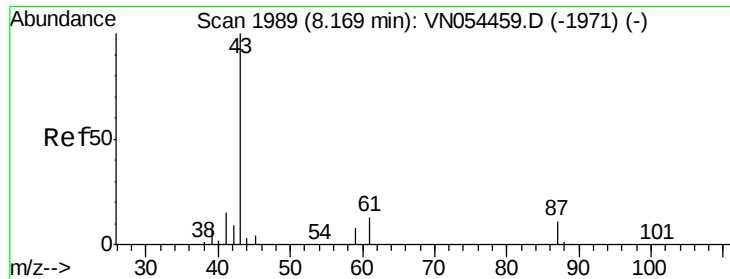
Tot Ion: 41 Resp: 63332
Ion Ratio Lower Upper
41 100
39 49.2 46.8 70.2
67 60.1 67.0 100.4#
52 26.9 26.5 39.7



#42
1,2-Dichloroethane
Concen: 20.840 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion: 62 Resp: 138257
Ion Ratio Lower Upper
62 100
98 7.6 0.0 18.4





#43

Isopropyl Acetate

Concen: 22.518 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

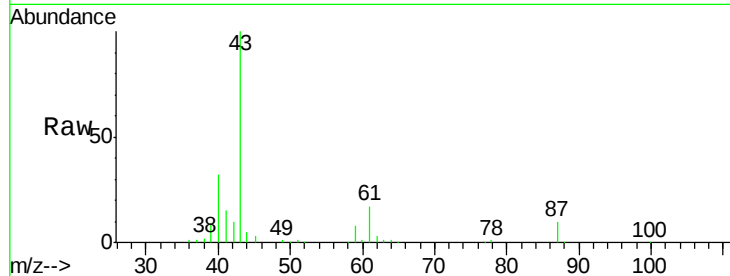
Tot Ion: 43 Resp: 172306

Ion Ratio Lower Upper

43 100

61 17.5 15.8 23.8

87 10.7 12.0 18.0#



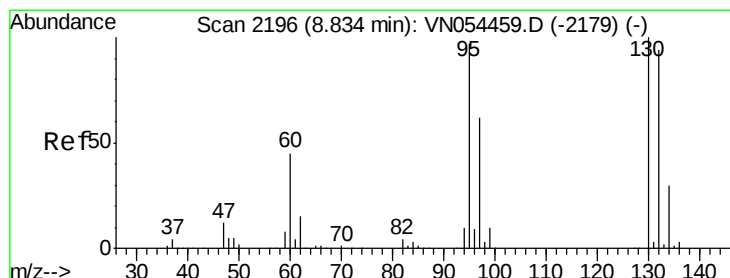
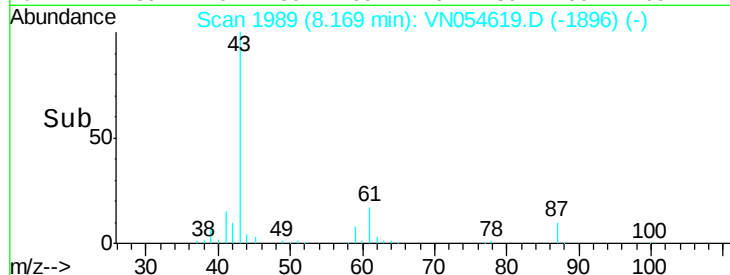
Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN054459.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN054459.D (-1971) (-)

8.17

Time-->



#44

Trichloroethene

Concen: 18.885 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN054619.D

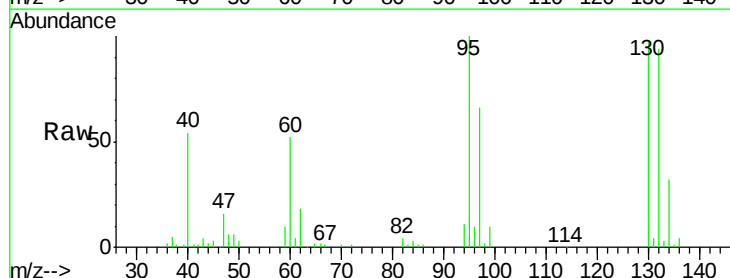
Acq: 23 Mar 2019 22:50

Tgt Ion:130 Resp: 95642

Ion Ratio Lower Upper

130 100

95 102.7 0.0 185.2

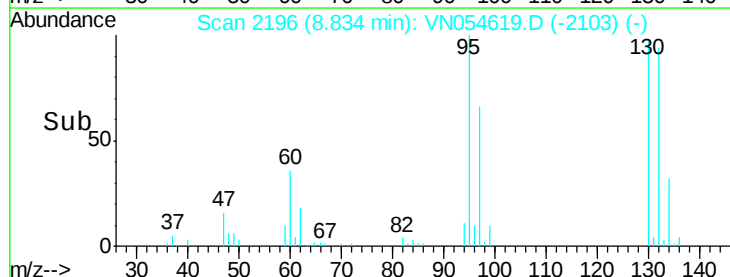


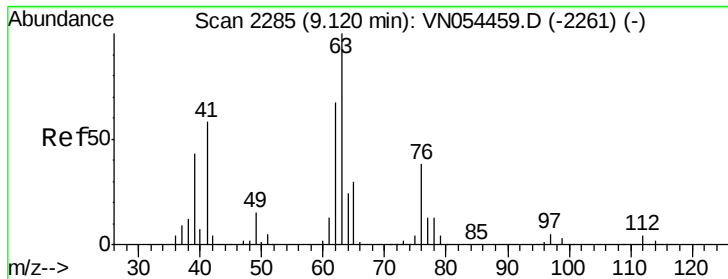
Abundance Ion 129.80 (129.50 to 130.50): VN054459.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN054459.D (-2179) (-)

8.83

Time-->





#45

1,2-Dichloropropane

Concen: 21.617 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

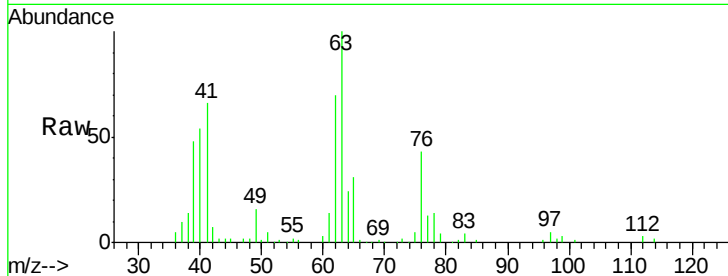
VN0323MBSD01

Tot Ion: 63 Resp: 105742

Ion Ratio Lower Upper

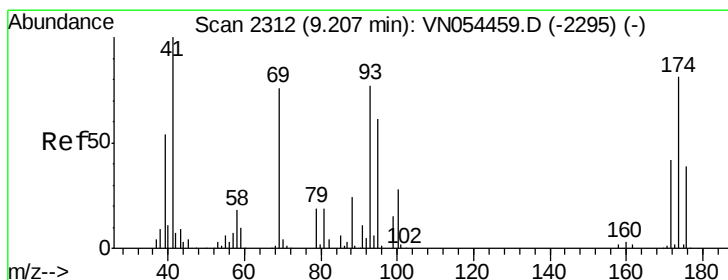
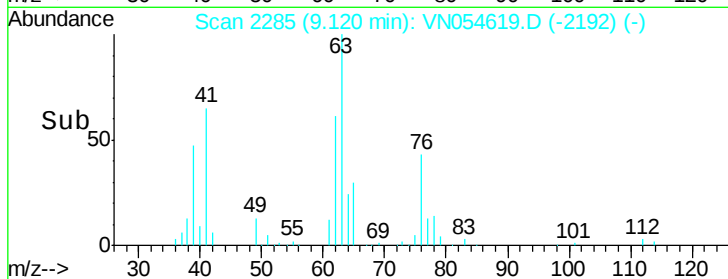
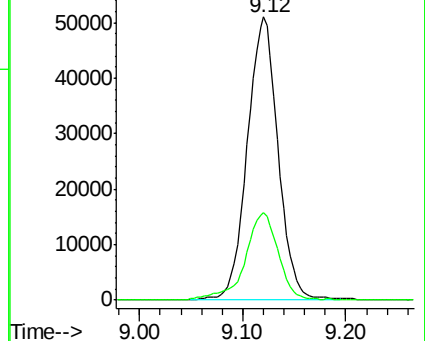
63 100

65 30.8 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 20.982 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

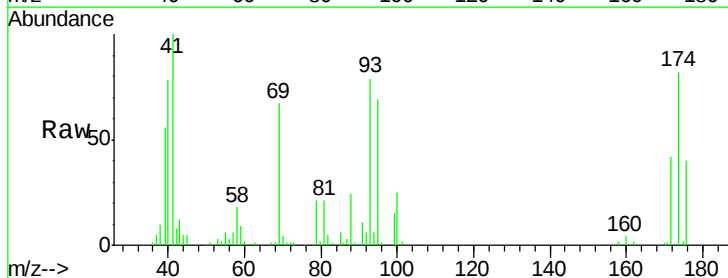
Tgt Ion: 93 Resp: 61229

Ion Ratio Lower Upper

93 100

95 84.5 66.7 100.1

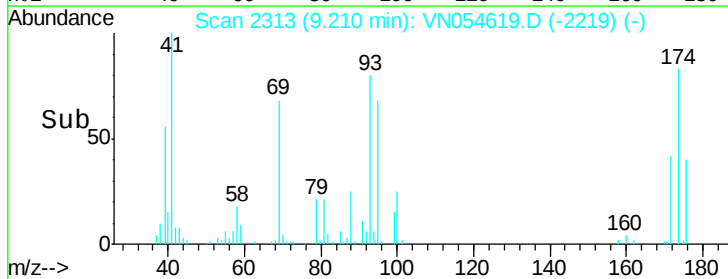
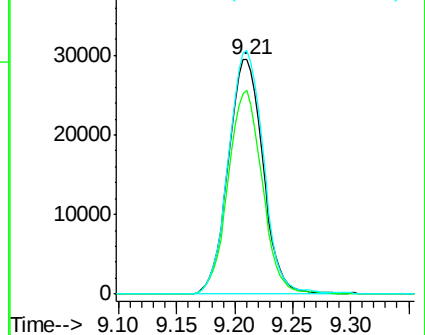
174 104.1 98.5 147.7



Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO





#47

Bromodichloromethane

Concen: 21.227 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

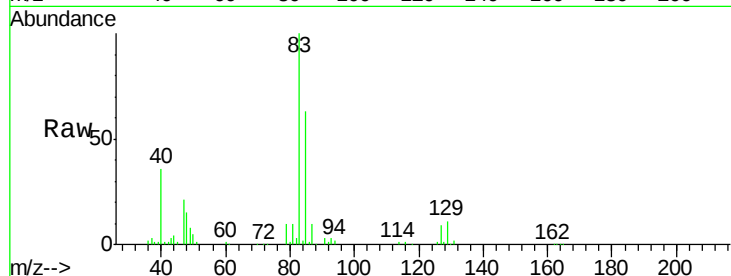
Tot Ion: 83 Resp: 128557

Ion Ratio Lower Upper

83 100

85 63.1 52.8 79.2

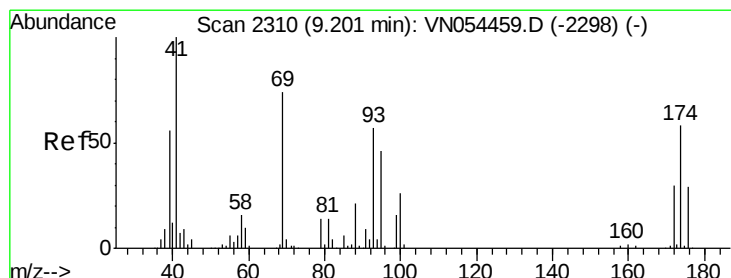
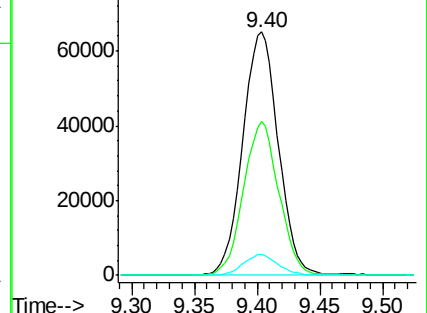
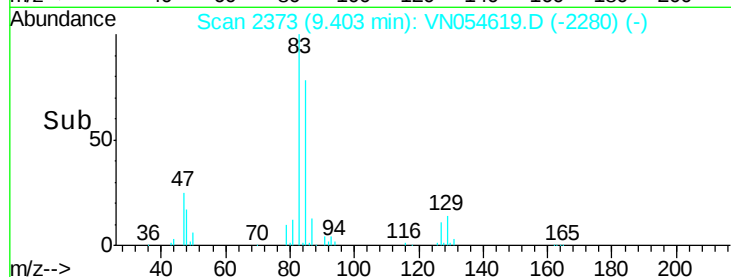
127 8.6 7.4 11.2



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 21.141 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

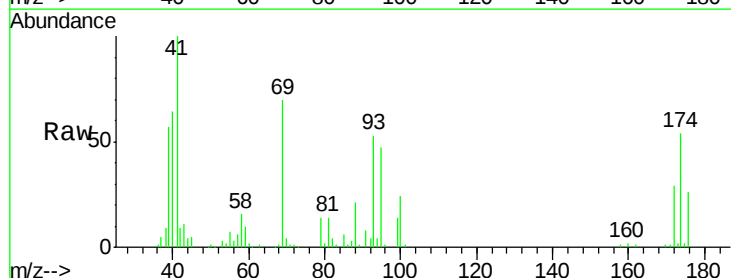
Tgt Ion: 41 Resp: 87804

Ion Ratio Lower Upper

41 100

69 71.3 72.6 108.8#

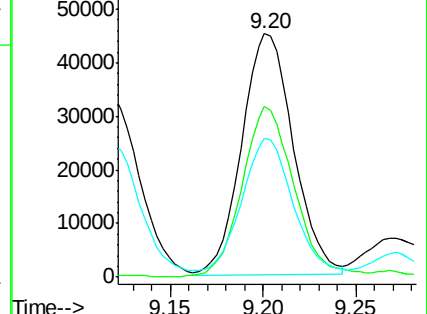
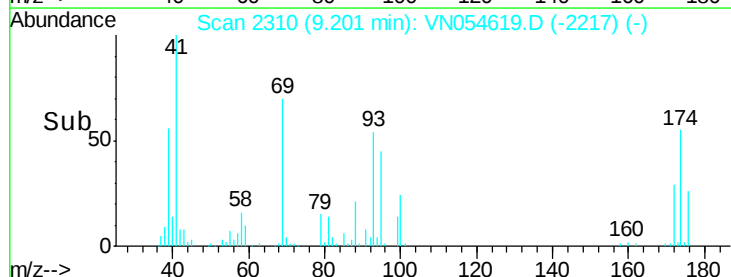
39 56.6 47.5 71.3

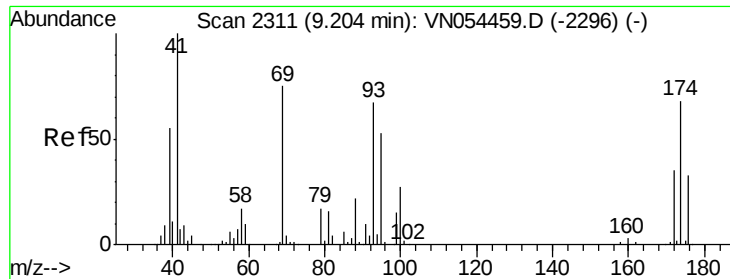


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 436.458 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

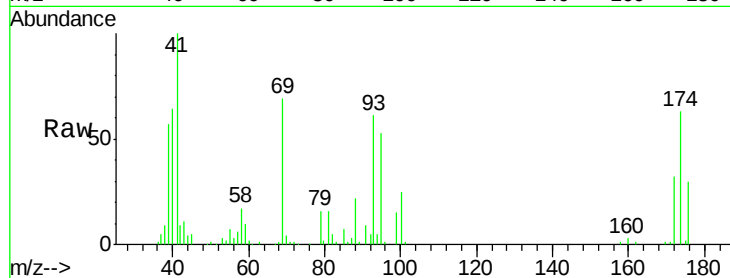
Tot Ion: 88 Resp: 20265

Ion Ratio Lower Upper

88 100

43 37.8 24.1 36.1#

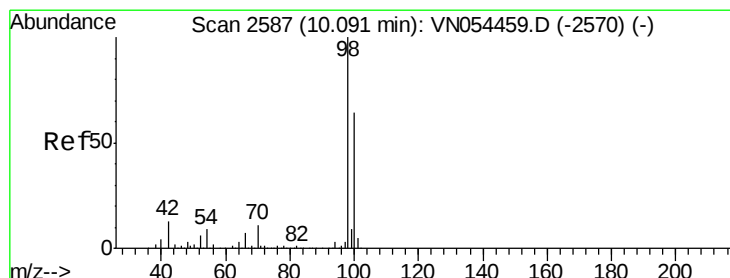
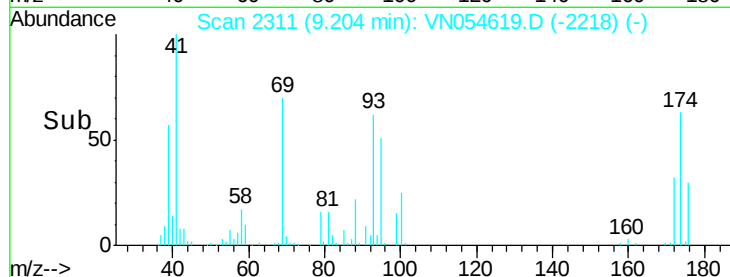
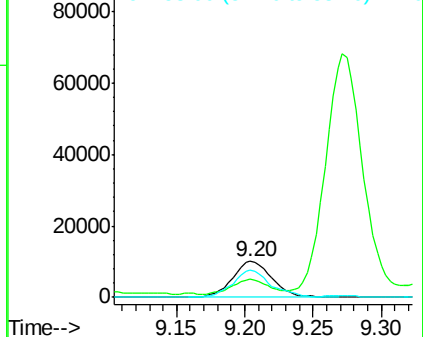
58 72.8 50.8 76.2



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 48.751 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054619.D

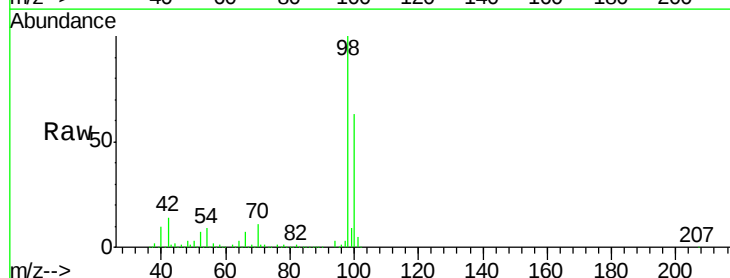
Acq: 23 Mar 2019 22:50

Tgt Ion: 98 Resp: 804458

Ion Ratio Lower Upper

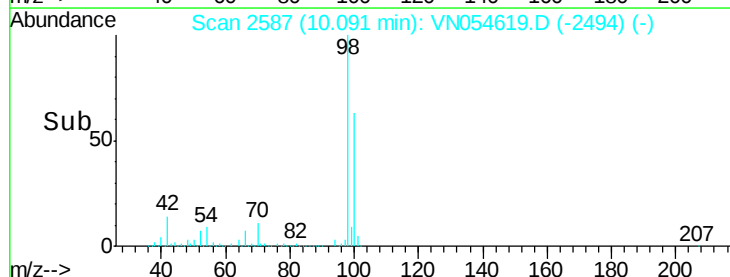
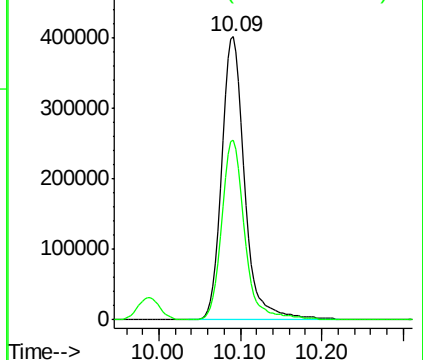
98 100

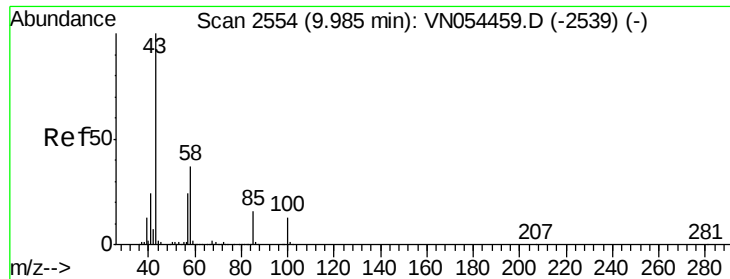
100 63.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 113.752 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

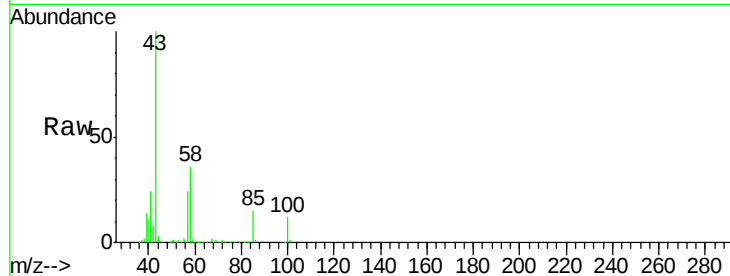
VN0323MBSD01

Tot Ion: 43 Resp: 482395

Ion Ratio Lower Upper

43 100

58 35.4 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

300000

250000

200000

150000

100000

50000

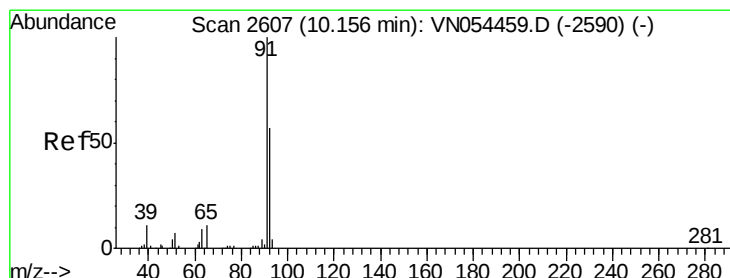
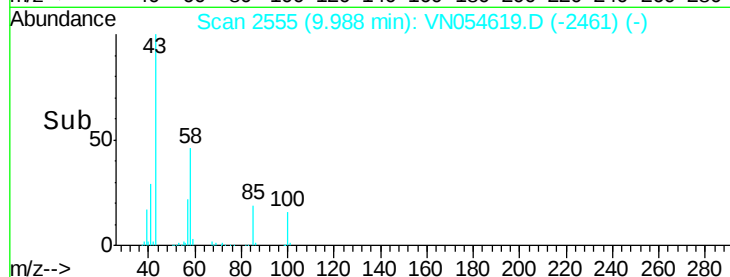
0

9.90

10.00

10.10

Time-->



#52

Toluene

Concen: 19.820 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054619.D

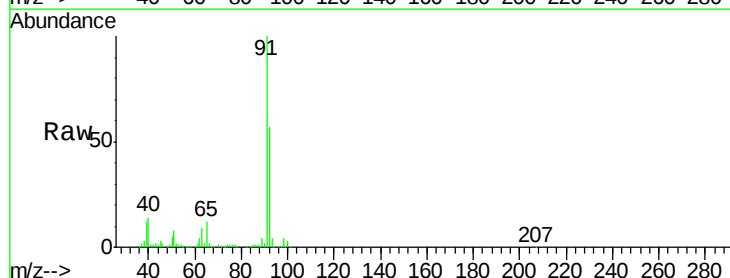
Acq: 23 Mar 2019 22:50

Tgt Ion: 92 Resp: 222070

Ion Ratio Lower Upper

92 100

91 177.3 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

200000

150000

100000

50000

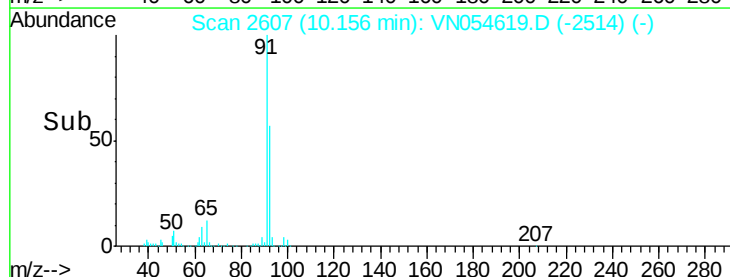
0

10.10

10.20

10.30

Time-->





#53

t-1,3-Dichloropropene

Concen: 19.019 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

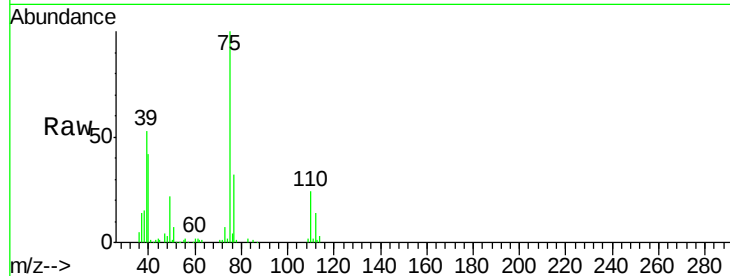
VN0323MBS01

Tot Ion: 75 Resp: 112257

Ion Ratio Lower Upper

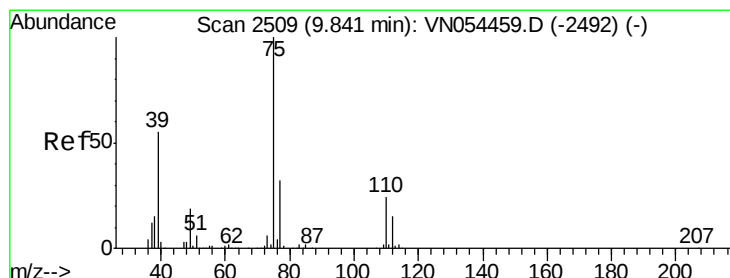
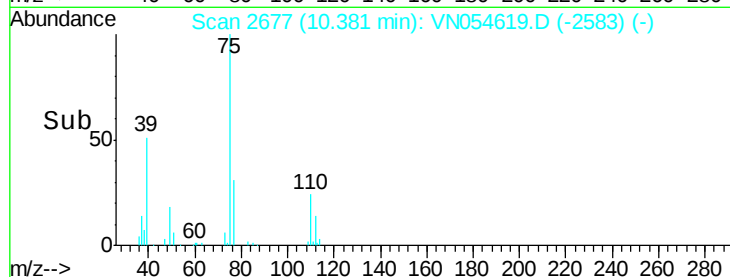
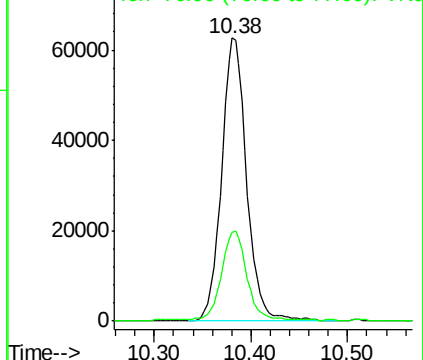
75 100

77 31.2 25.8 38.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 19.795 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

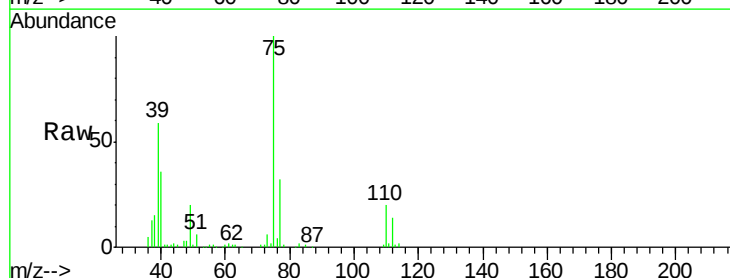
Tgt Ion: 75 Resp: 137456

Ion Ratio Lower Upper

75 100

77 31.6 25.4 38.0

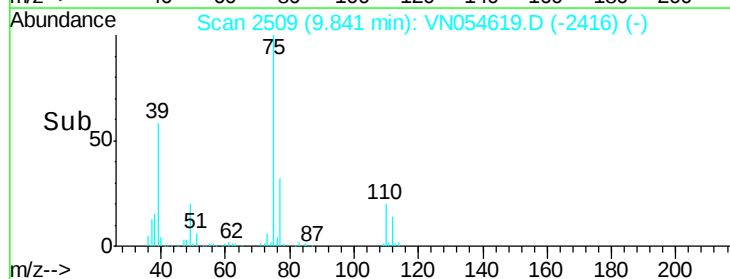
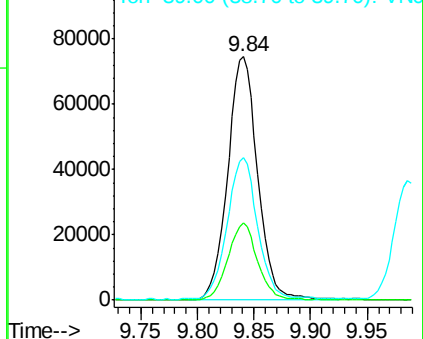
39 58.1 37.2 55.8#

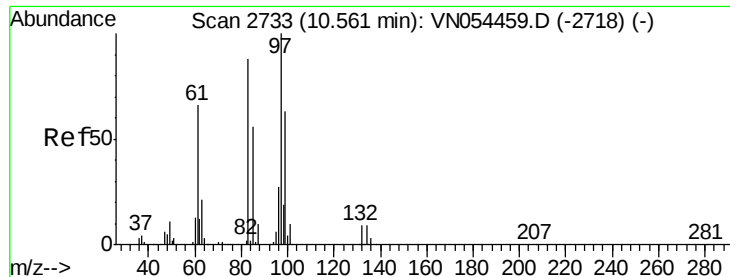


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#55

1,1,2-Trichloroethane

Concen: 21.391 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampled :

VN0323MBSD01

Tot Ion: 97 Resp: 86152

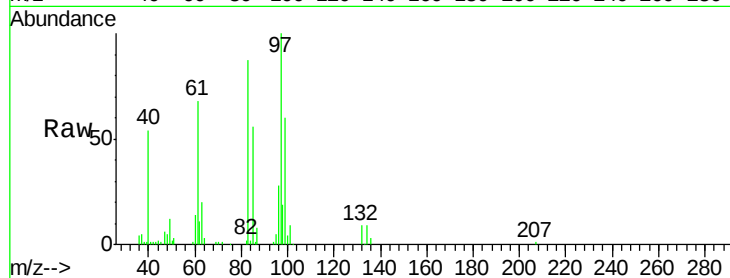
Ion Ratio Lower Upper

97 100

83 86.9 66.6 100.0

85 55.6 44.4 66.6

99 59.8 50.8 76.2

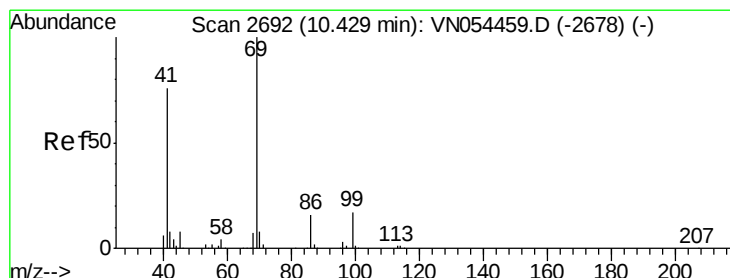
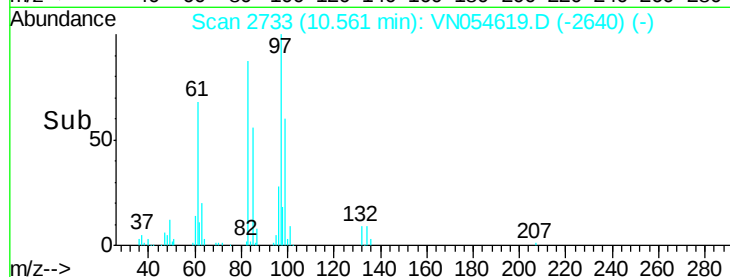
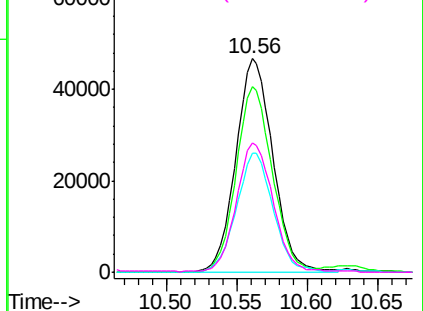


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 20.739 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

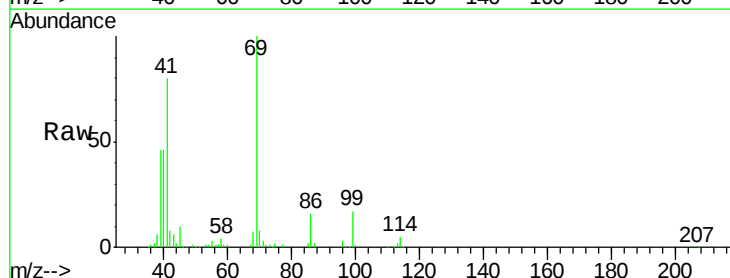
Tgt Ion: 69 Resp: 112105

Ion Ratio Lower Upper

69 100

41 78.9 49.4 74.2#

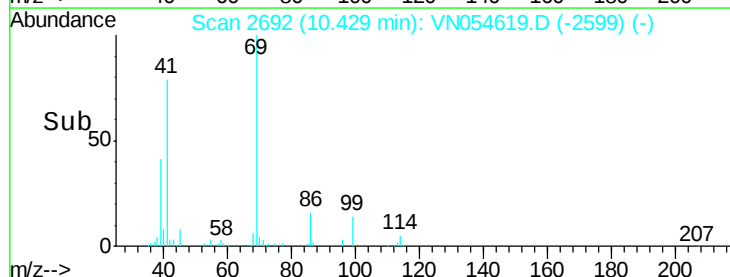
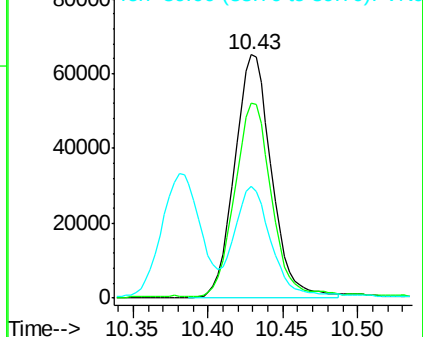
39 45.5 28.3 42.5#

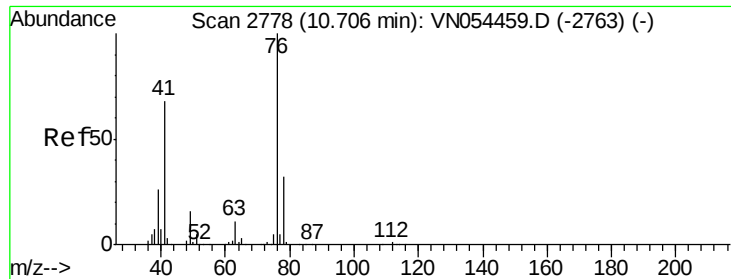


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

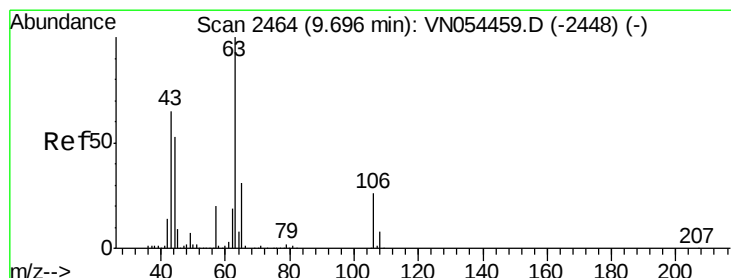
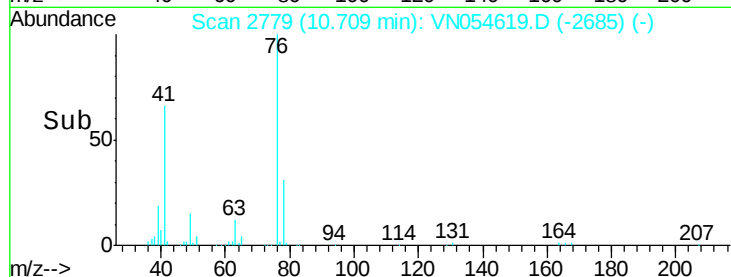
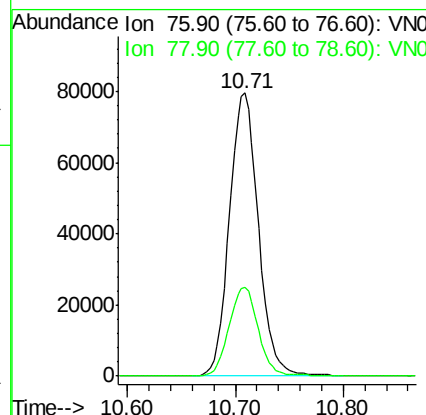
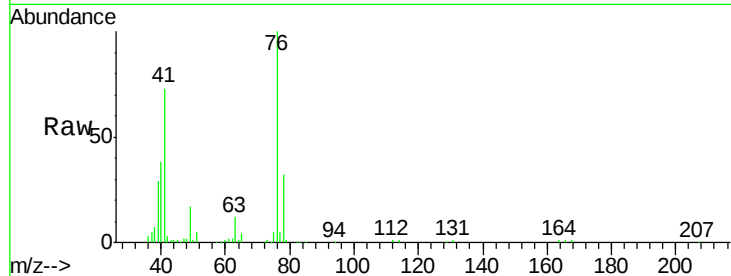




#57
 1,3-Dichloropropane
 Concen: 21.294 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

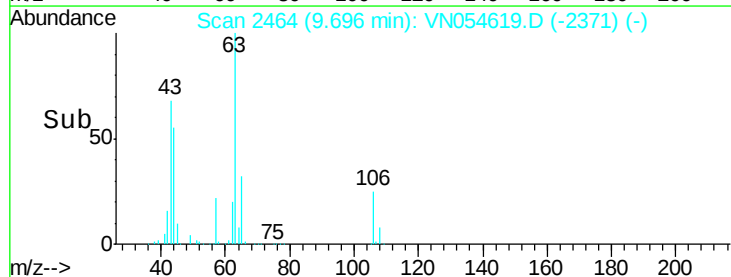
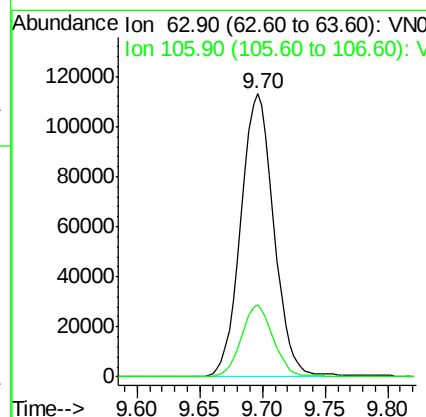
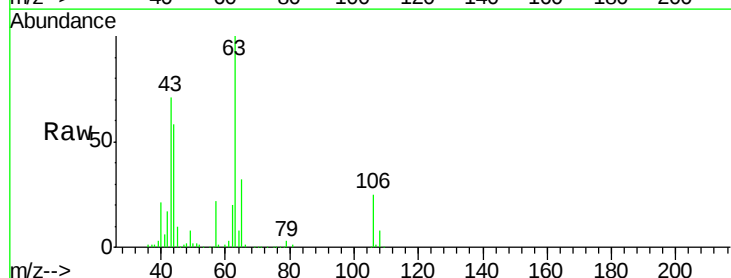
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323MBSD01

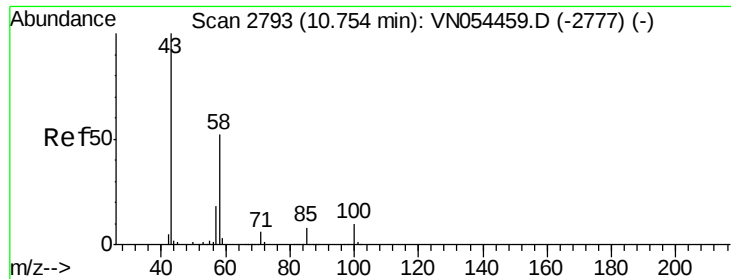
Tot Ion: 76 Resp: 149080
 Ion Ratio Lower Upper
 76 100
 78 31.8 25.7 38.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 93.526 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Tgt Ion: 63 Resp: 208182
 Ion Ratio Lower Upper
 63 100
 106 24.5 24.4 36.6

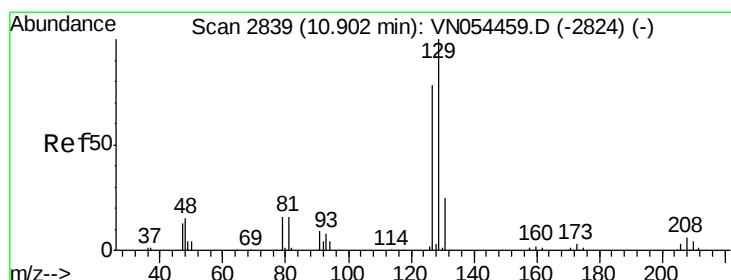
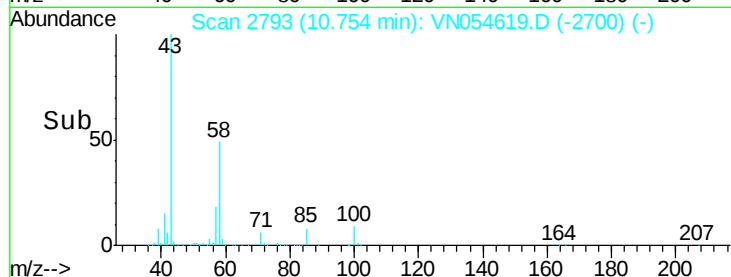
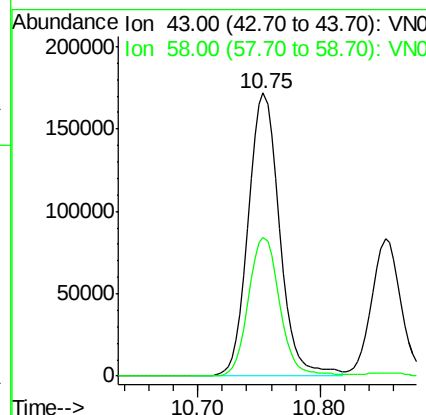
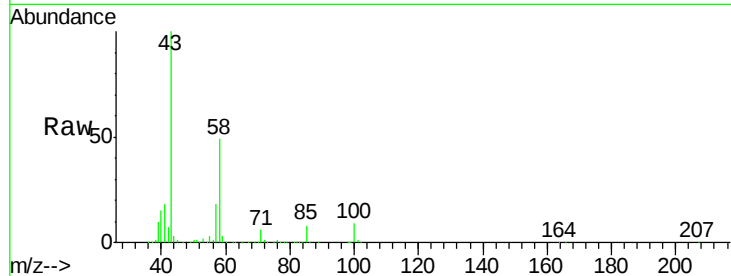




#59
2-Hexanone
Concen: 109.080 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

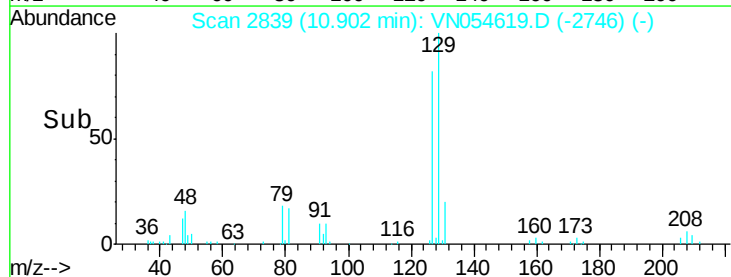
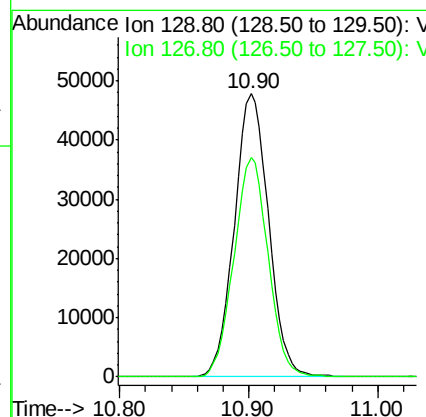
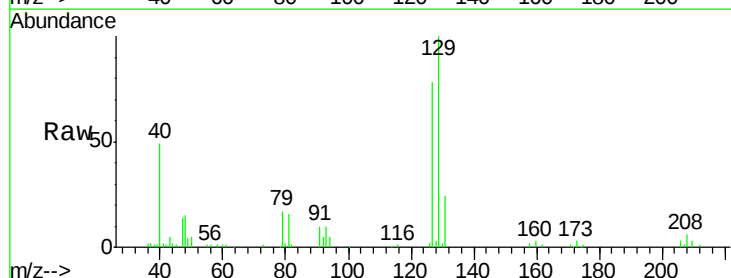
Instrument :
MSVOA_N
ClientSampleId :
VN0323MBSD01

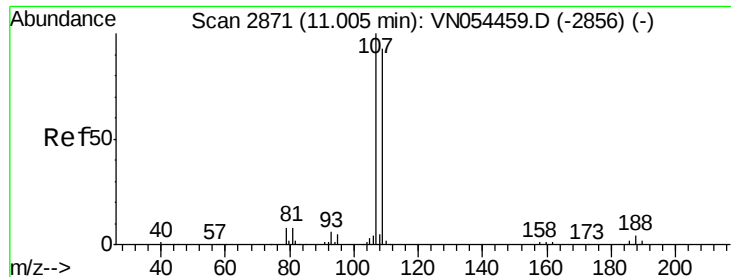
Tot Ion: 43 Resp: 302152
Ion Ratio Lower Upper
43 100
58 49.4 28.0 83.9



#60
Dibromochloromethane
Concen: 20.591 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion: 129 Resp: 88243
Ion Ratio Lower Upper
129 100
127 77.5 38.6 115.8

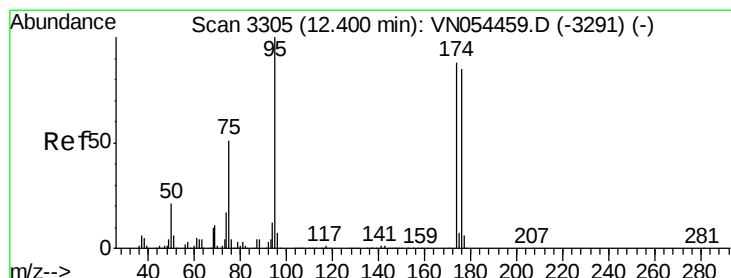
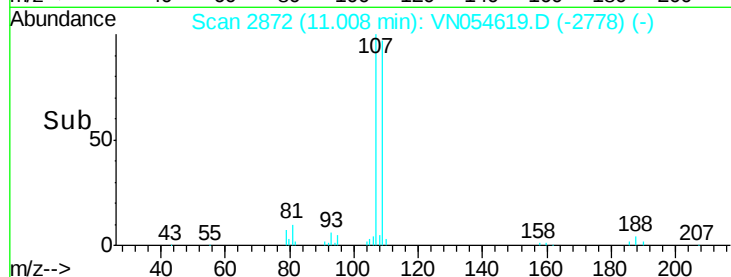
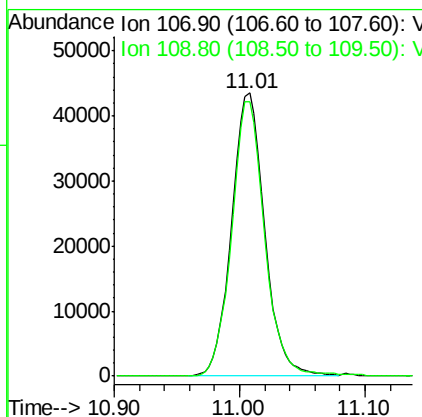
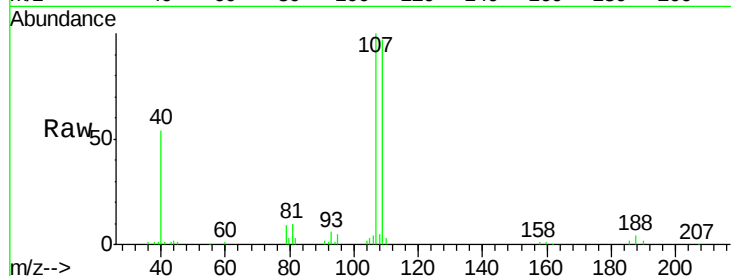




#61
 1,2-Dibromoethane
 Concen: 20.051 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

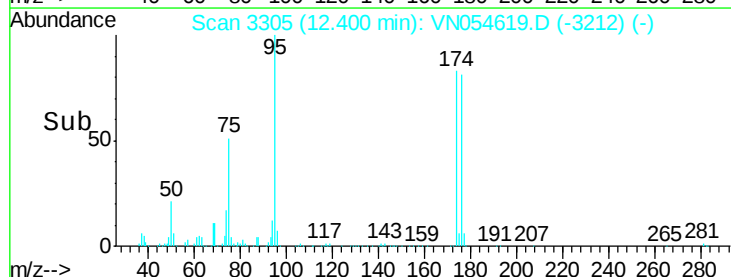
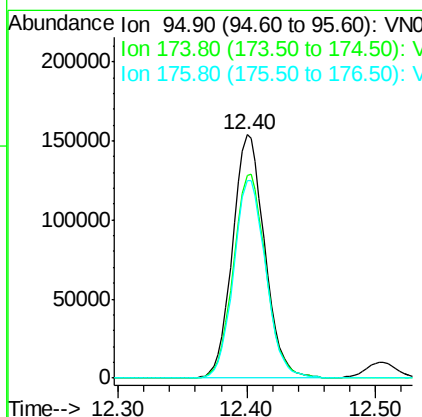
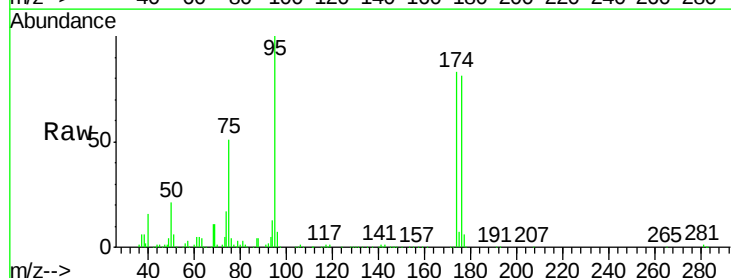
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323MBSD01

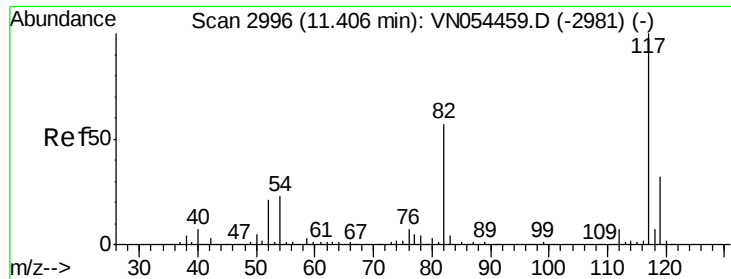
Tot Ion:107 Resp: 79836
 Ion Ratio Lower Upper
 107 100
 109 96.4 75.9 113.9



#62
 4-Bromofluorobenzene
 Concen: 47.465 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Tgt Ion: 95 Resp: 266523
 Ion Ratio Lower Upper
 95 100
 174 84.7 0.0 191.0
 176 81.5 0.0 187.4

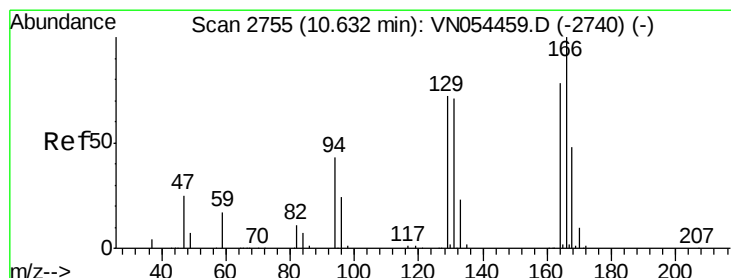
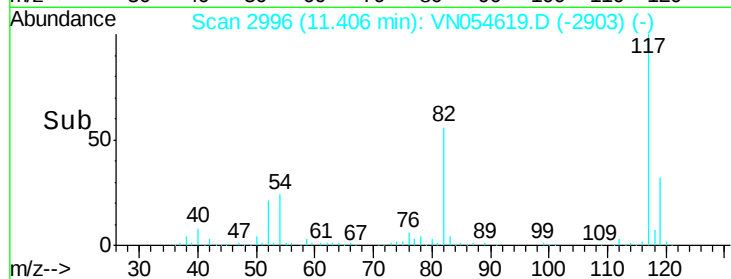
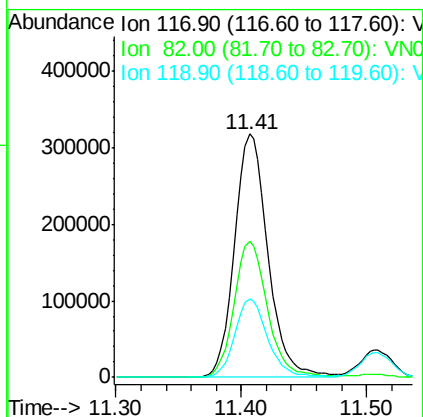
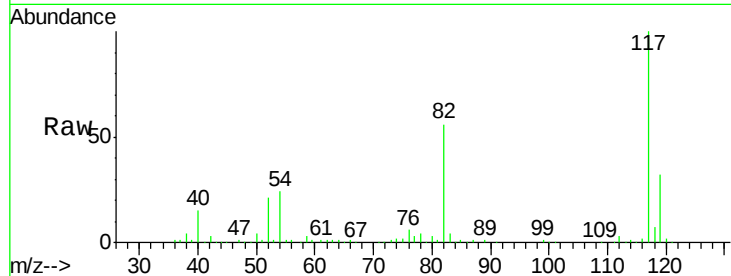




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

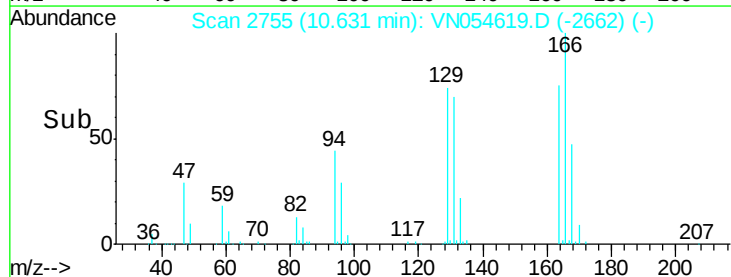
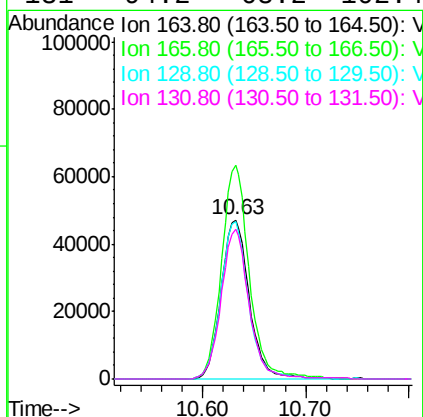
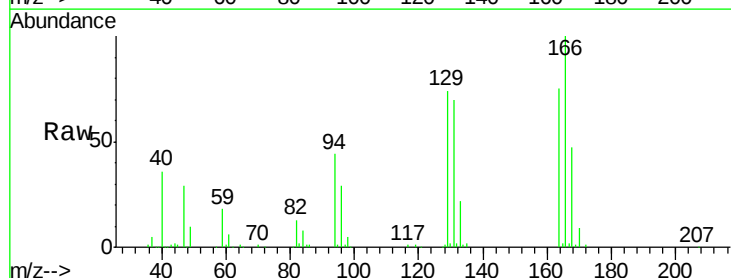
Instrument :
MSVOA_N
ClientSampleId :
VN0323MBSD01

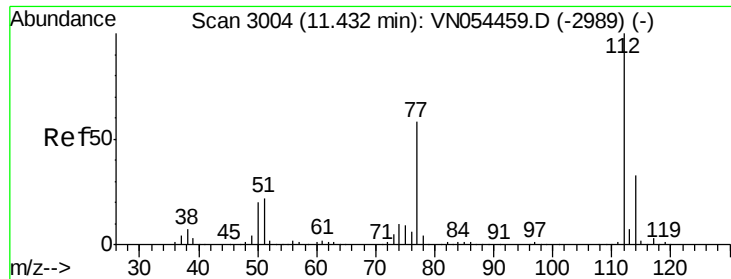
Tot Ion:117 Resp: 589991
Ion Ratio Lower Upper
117 100
82 55.9 40.0 60.0
119 32.1 25.8 38.6



#64
Tetrachloroethene
Concen: 18.371 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion:164 Resp: 89904
Ion Ratio Lower Upper
164 100
166 134.1 103.9 155.9
129 98.7 71.1 106.7
131 94.2 68.2 102.4

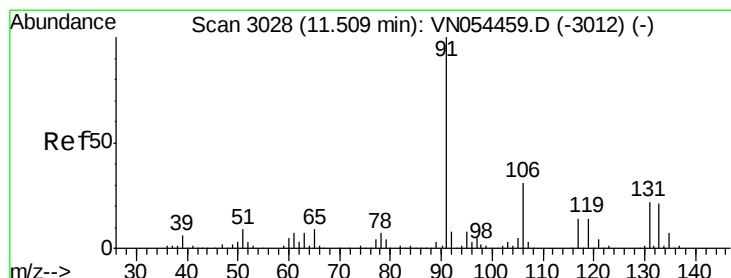
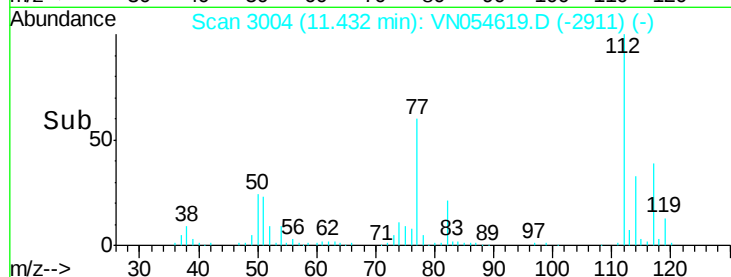
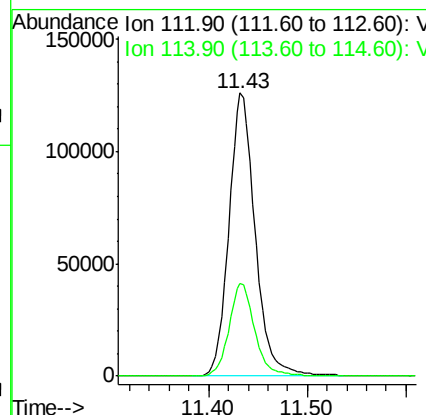
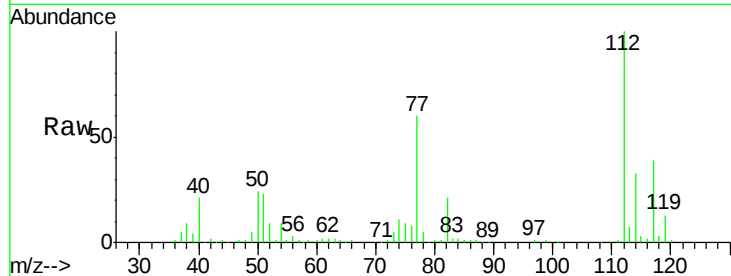




#65
Chlorobenzene
Concen: 19.566 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

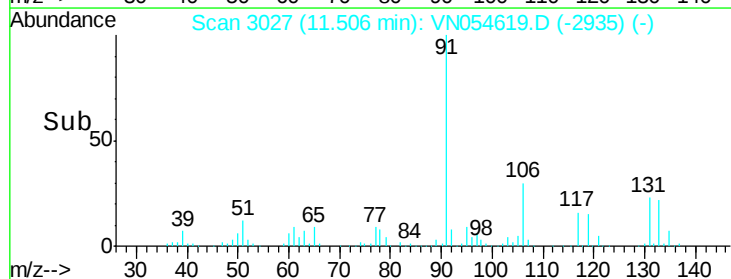
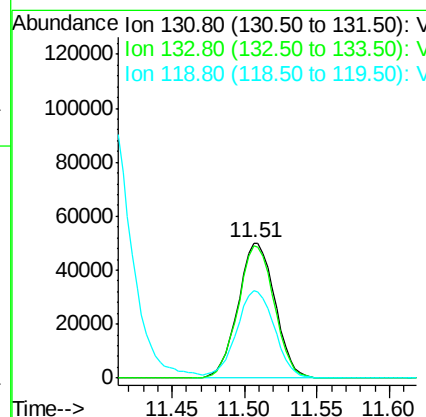
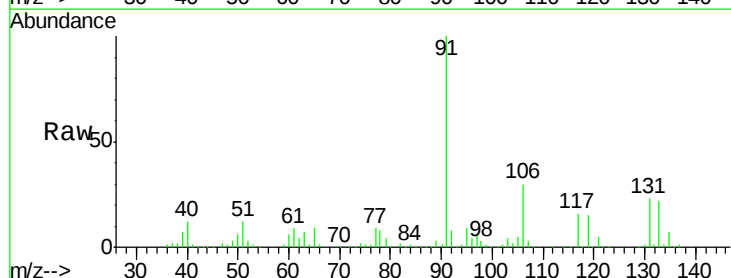
Instrument :
MSVOA_N
ClientSampleId :
VN0323MBSD01

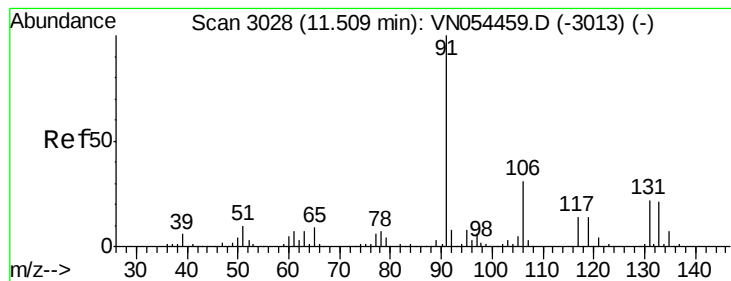
Tot Ion:112 Resp: 234791
Ion Ratio Lower Upper
112 100
114 32.6 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 20.669 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion:131 Resp: 89024
Ion Ratio Lower Upper
131 100
133 95.9 47.6 142.9
119 66.5 32.4 97.0





#67

Ethyl Benzene

Concen: 19.910 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

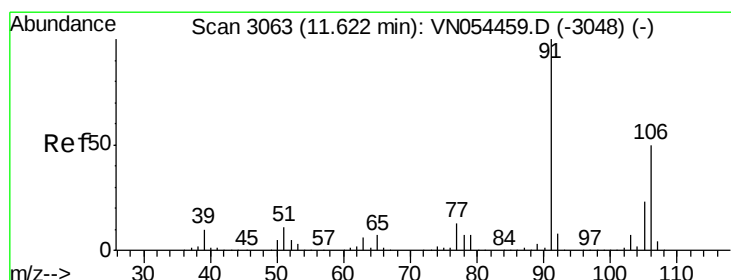
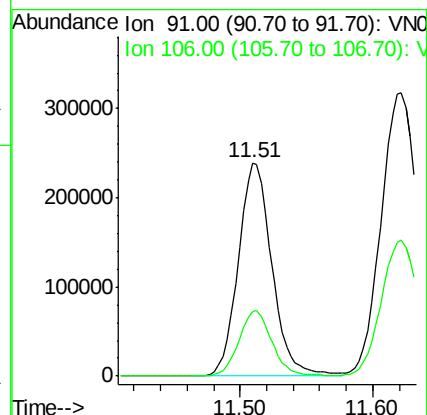
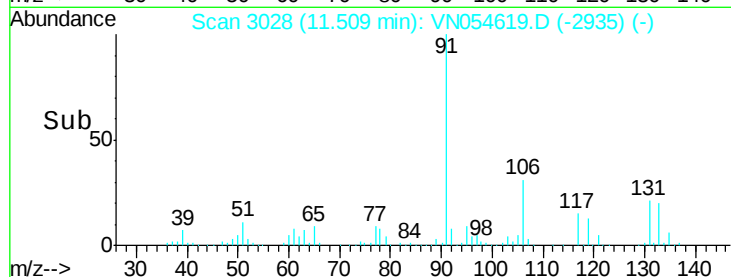
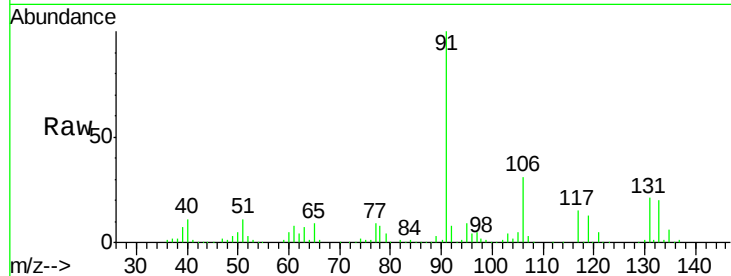
VN0323MBS01

Tot Ion: 91 Resp: 422035

Ion Ratio Lower Upper

91 100

106 30.6 25.5 38.3



#68

m/p-Xylenes

Concen: 38.718 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN054619.D

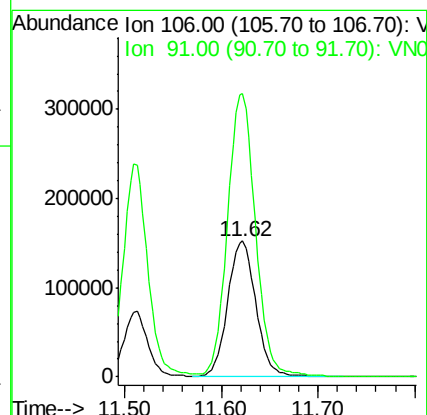
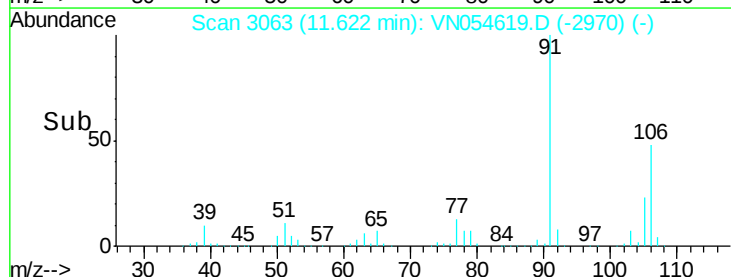
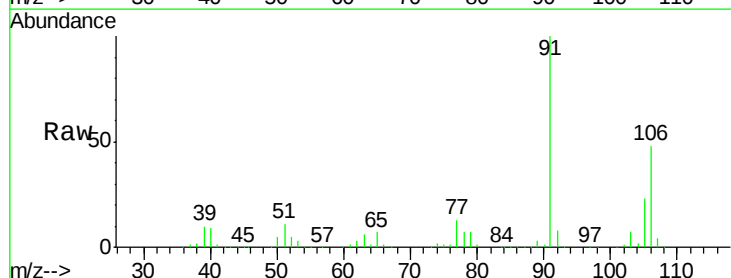
Acq: 23 Mar 2019 22:50

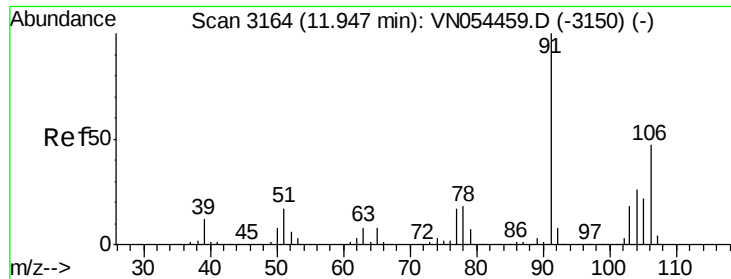
Tgt Ion: 106 Resp: 310860

Ion Ratio Lower Upper

106 100

91 206.0 159.4 239.2

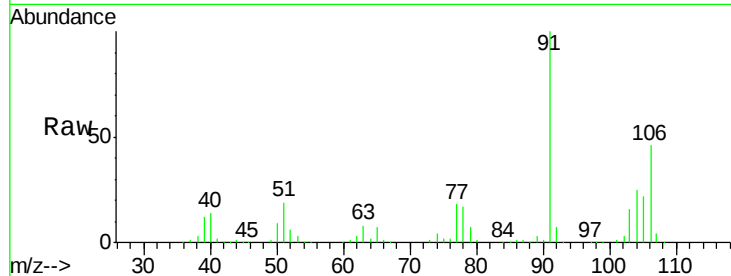




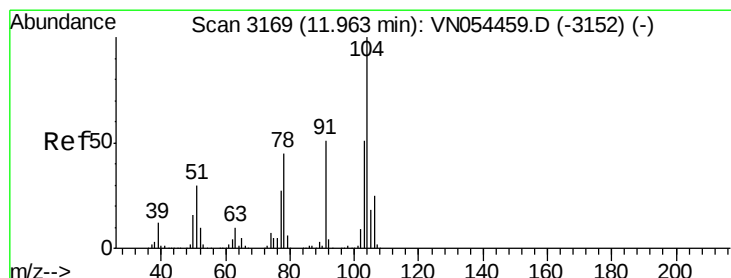
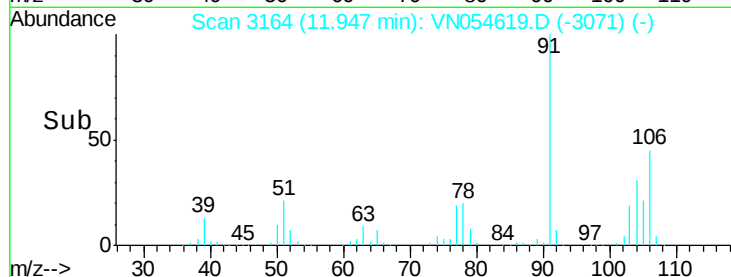
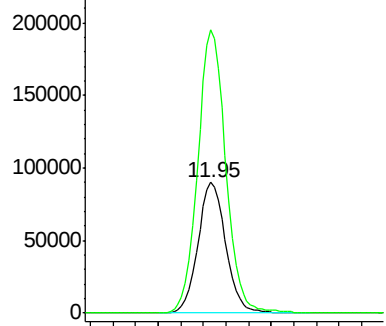
#69
o-Xylene
Concen: 19.698 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Instrument :
MSVOA_N
ClientSampled :
VN0323MBSD01

Tot Ion:106 Resp: 154451
Ion Ratio Lower Upper
106 100
91 217.6 105.7 317.1

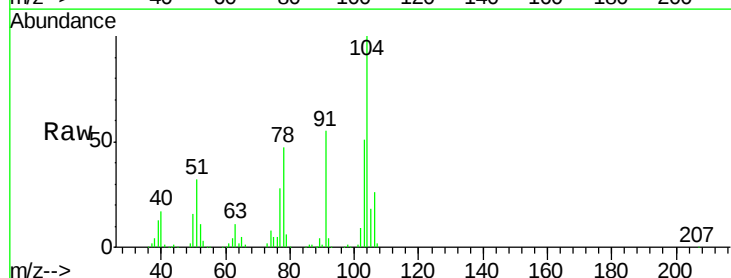


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

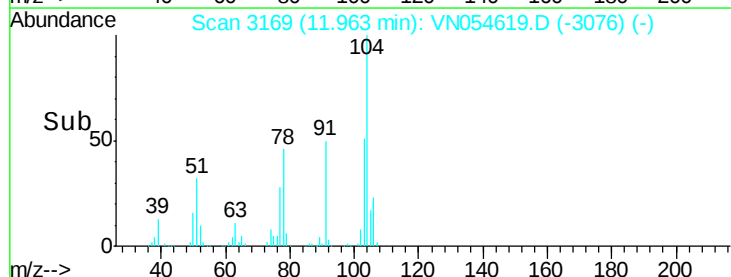
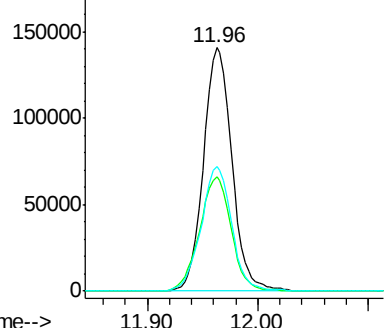


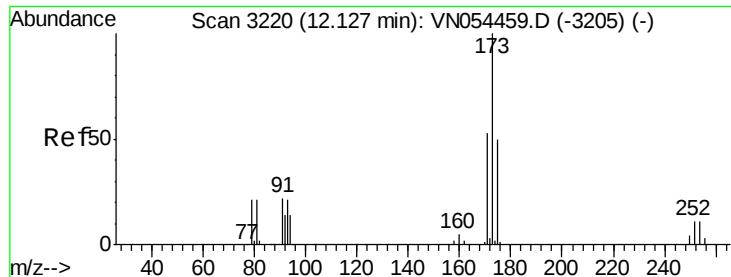
#70
Styrene
Concen: 19.831 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion:104 Resp: 252509
Ion Ratio Lower Upper
104 100
78 52.3 38.2 57.2
103 55.0 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 19.272 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

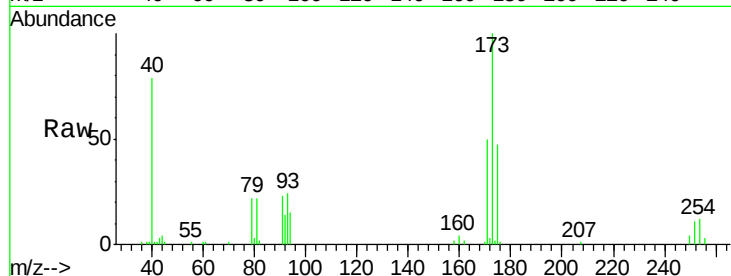
Tot Ion:173 Resp: 52985

Ion Ratio Lower Upper

173 100

175 47.8 24.4 73.2

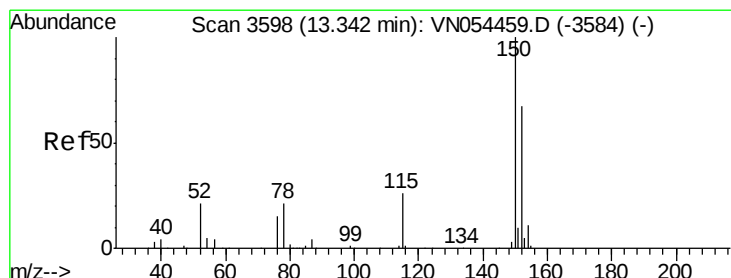
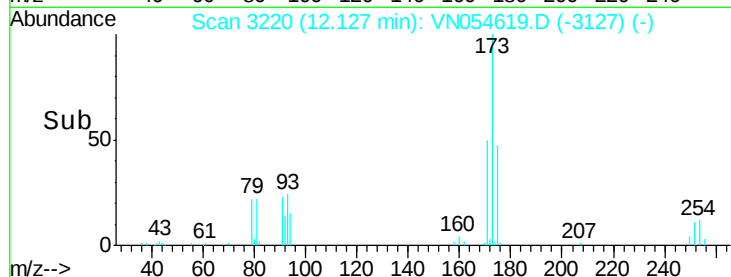
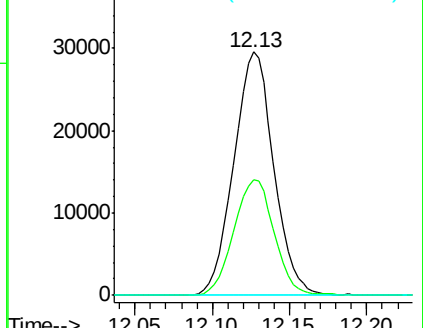
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

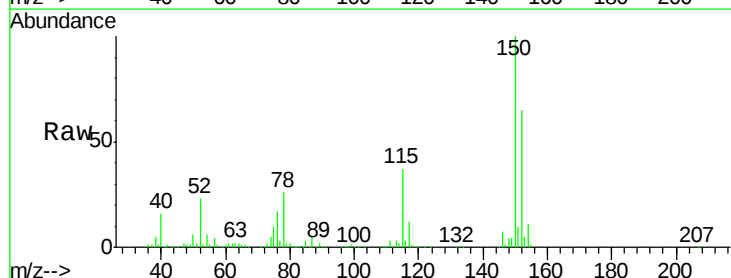
Tgt Ion:152 Resp: 247710

Ion Ratio Lower Upper

152 100

115 58.1 27.2 81.6

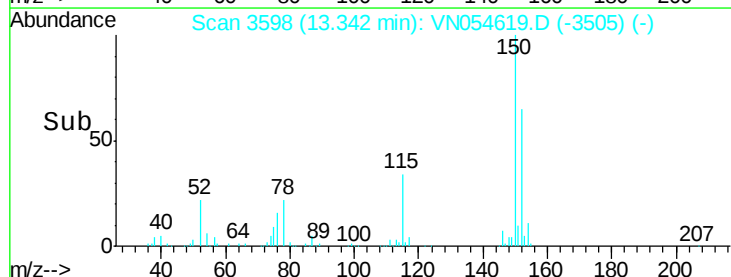
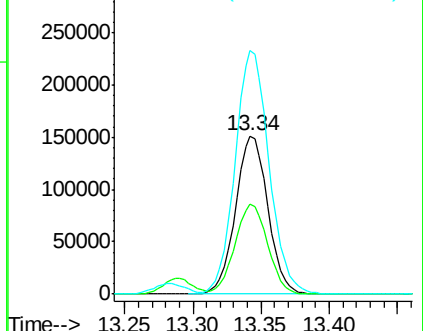
150 162.6 0.0 349.2

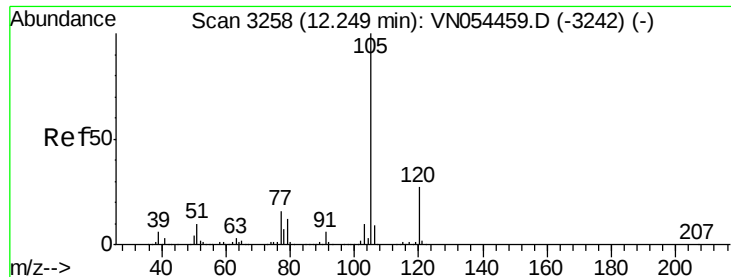


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.148 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampled :

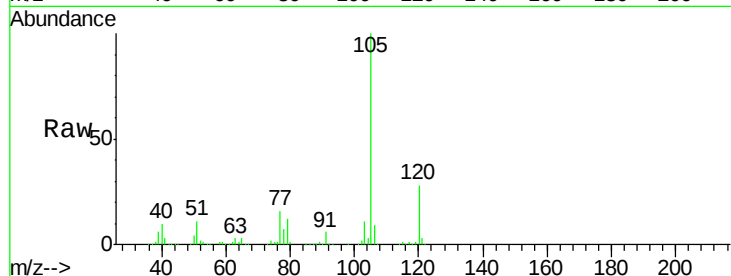
VN0323MBSD01

Tot Ion:105 Resp: 402167

Ion Ratio Lower Upper

105 100

120 27.1 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

250000

200000

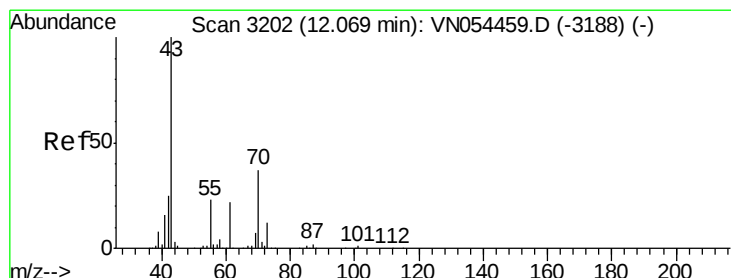
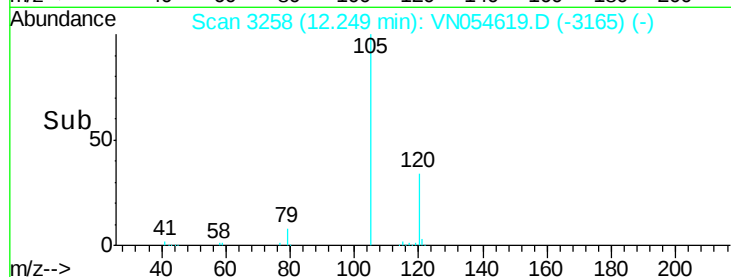
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 23.728 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Tgt Ion: 43 Resp: 136188

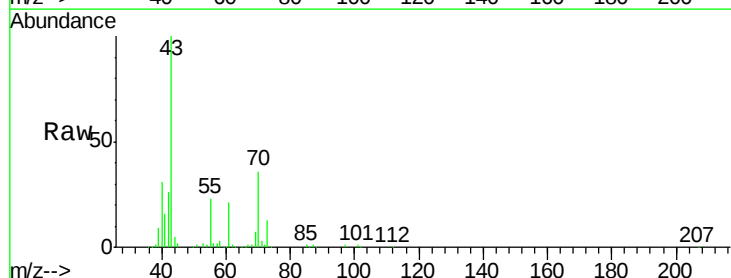
Ion Ratio Lower Upper

43 100

70 36.0 35.4 53.0

55 23.4 19.8 29.6

61 21.1 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

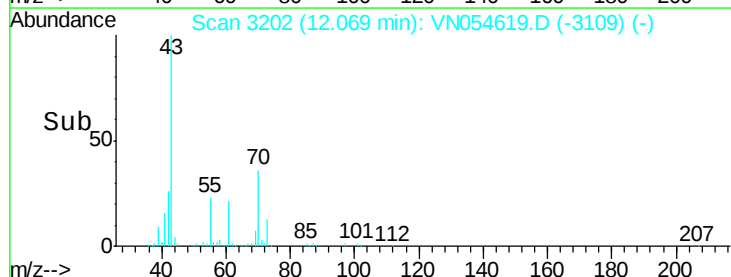
12.07

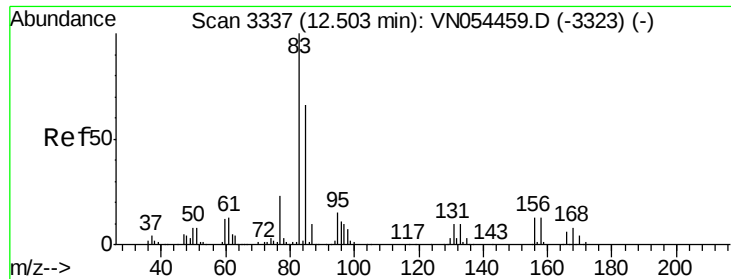
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.658 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

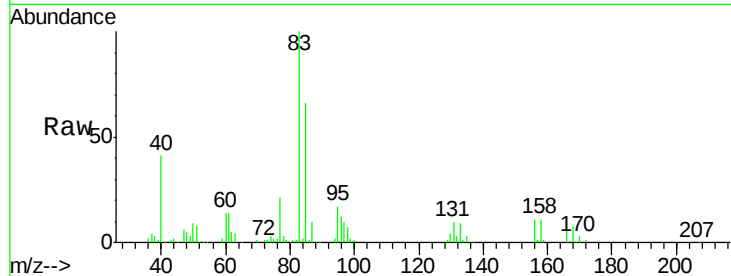
Tot Ion: 83 Resp: 103245

Ion Ratio Lower Upper

83 100

131 10.4 5.8 17.4

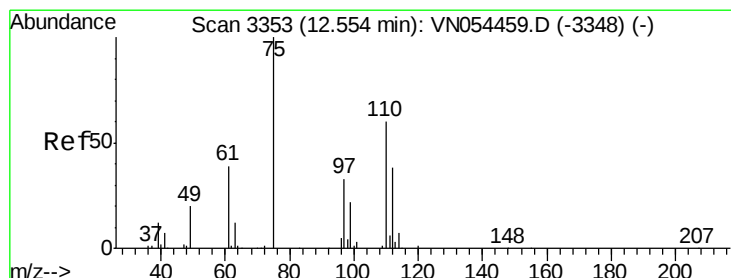
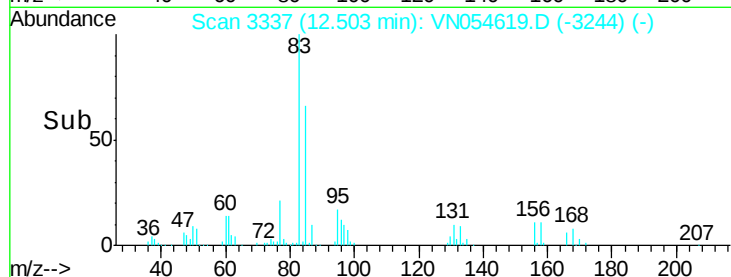
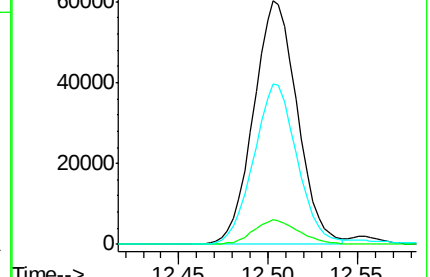
85 66.9 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 30.719 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054619.D

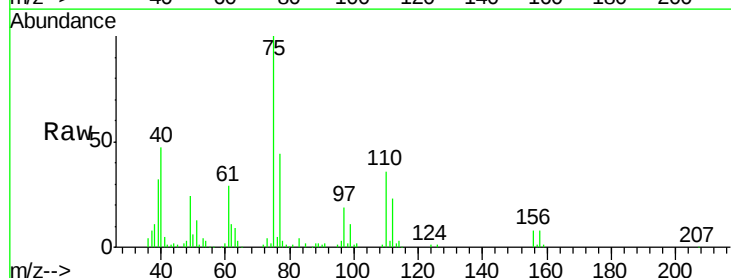
Acq: 23 Mar 2019 22:50

Tgt Ion: 75 Resp: 120750

Ion Ratio Lower Upper

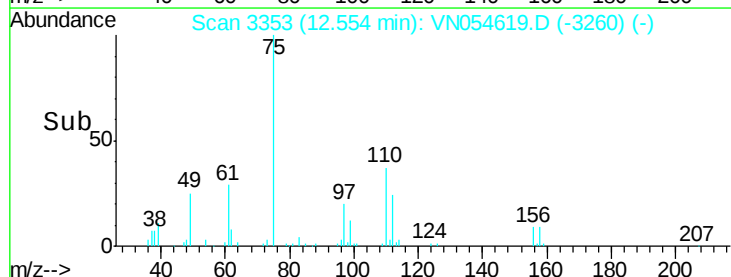
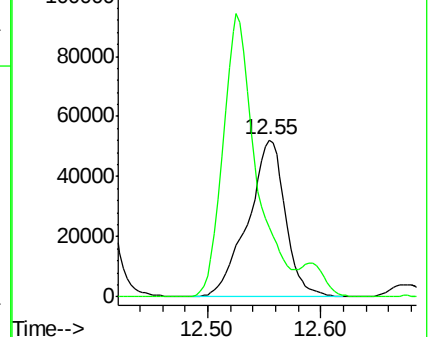
75 100

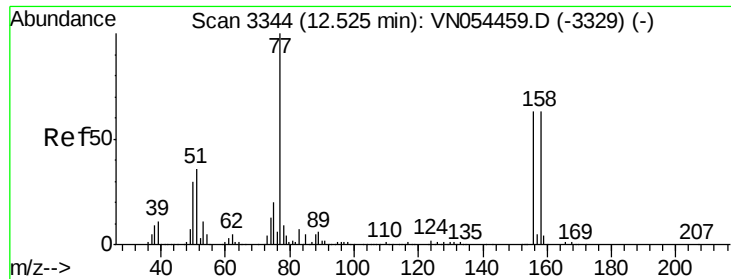
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 20.452 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

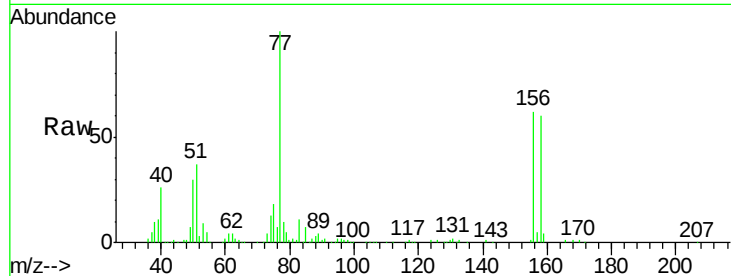
Tot Ion:156 Resp: 101249

Ion Ratio Lower Upper

156 100

77 189.6 81.5 244.4

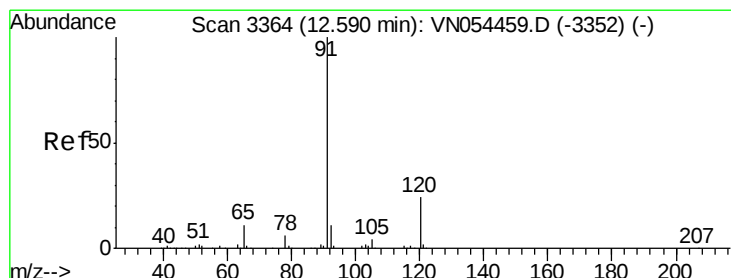
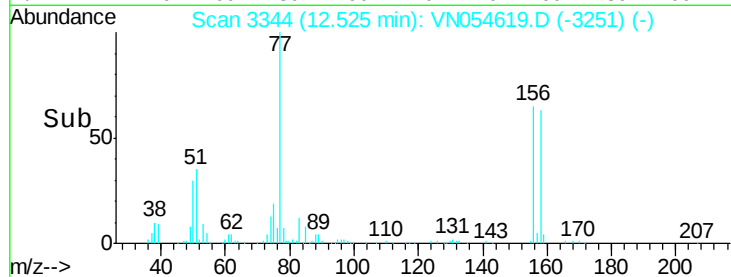
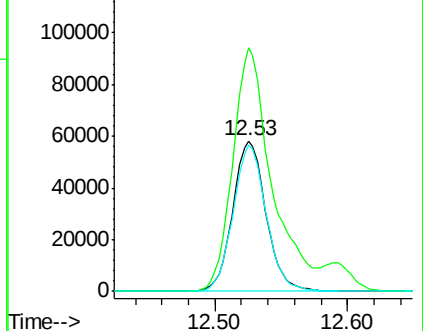
158 96.7 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.145 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054619.D

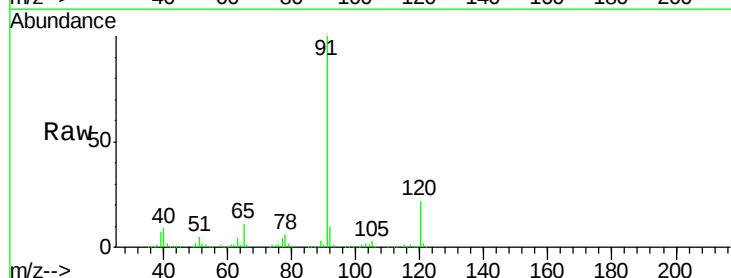
Acq: 23 Mar 2019 22:50

Tgt Ion: 91 Resp: 436028

Ion Ratio Lower Upper

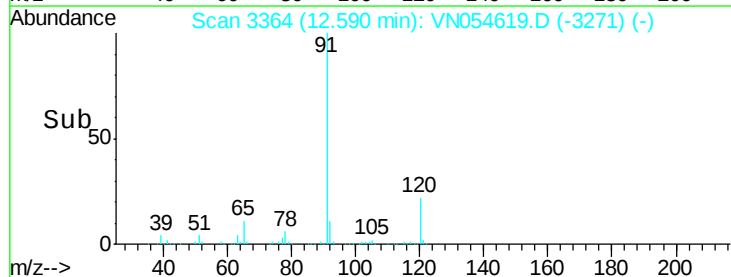
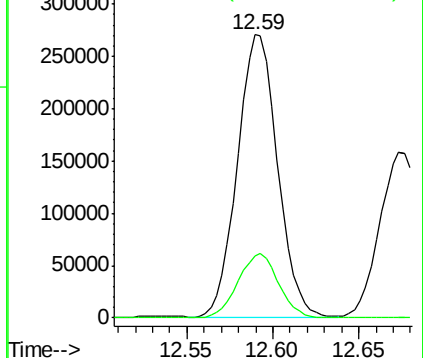
91 100

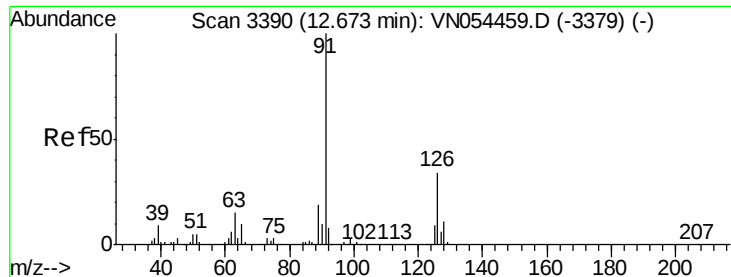
120 23.1 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.130 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

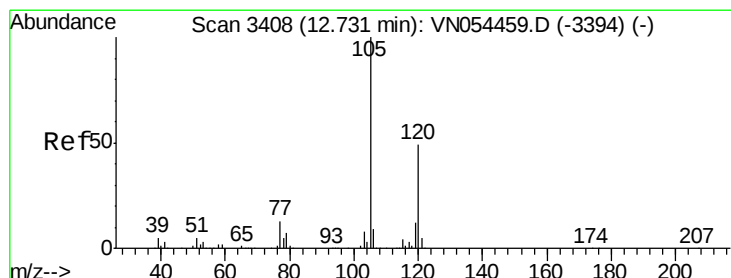
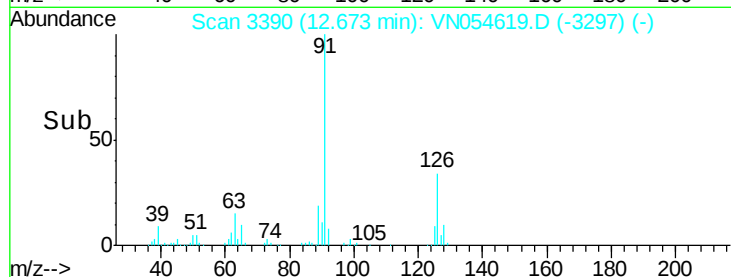
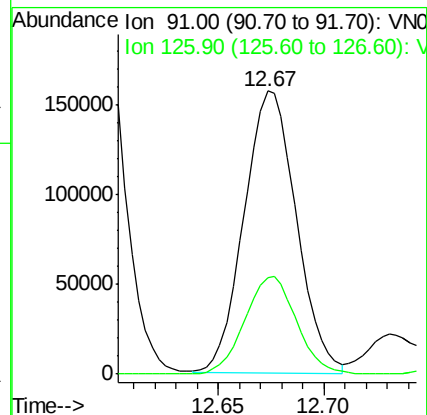
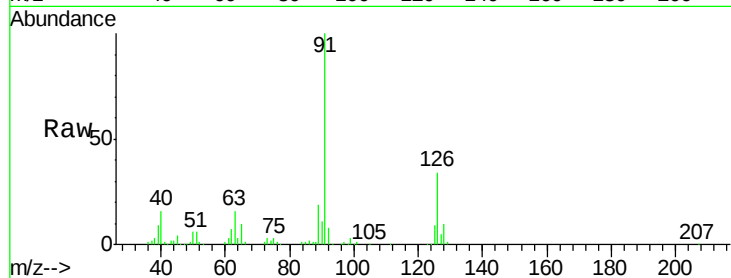
VN0323MBS01

Tot Ion: 91 Resp: 271710

Ion Ratio Lower Upper

91 100

126 34.3 18.7 56.1



#80

1,3,5-Trimethylbenzene

Concen: 20.322 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054619.D

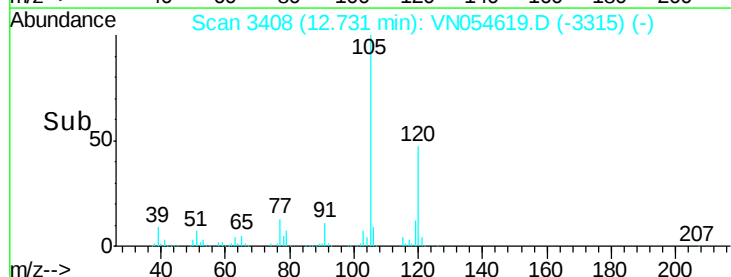
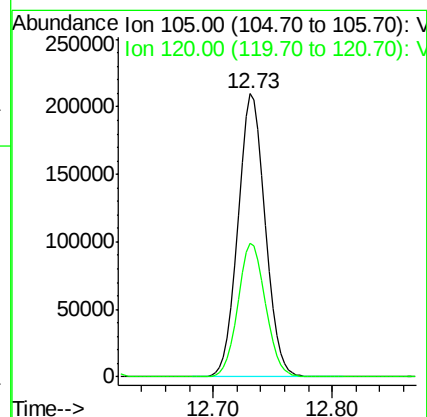
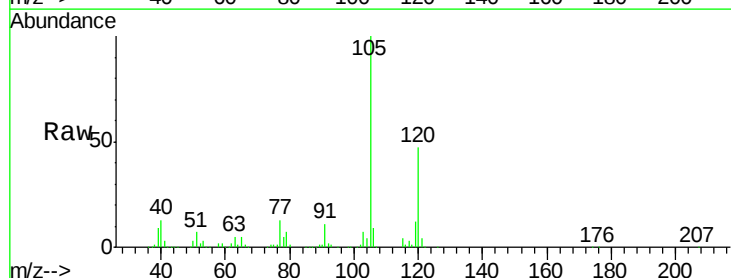
Acq: 23 Mar 2019 22:50

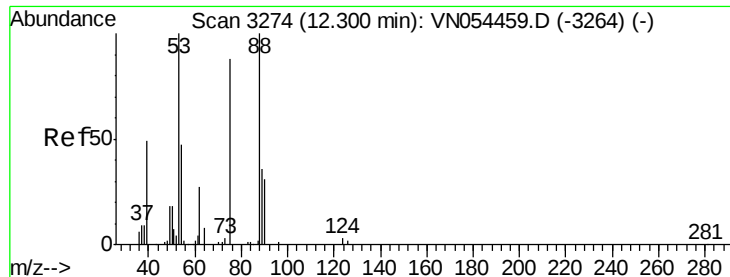
Tgt Ion: 105 Resp: 332466

Ion Ratio Lower Upper

105 100

120 47.9 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.555 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

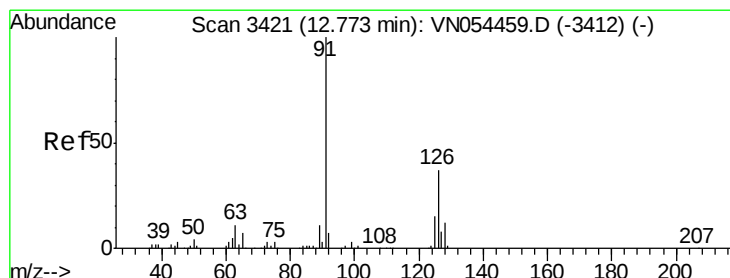
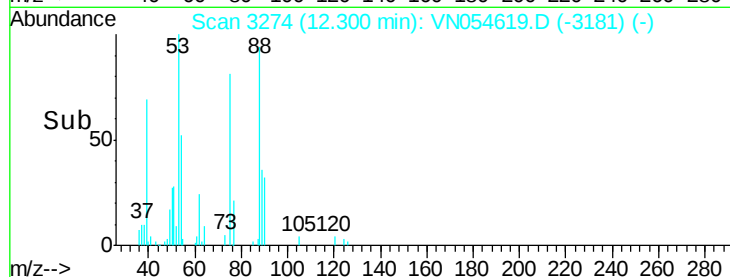
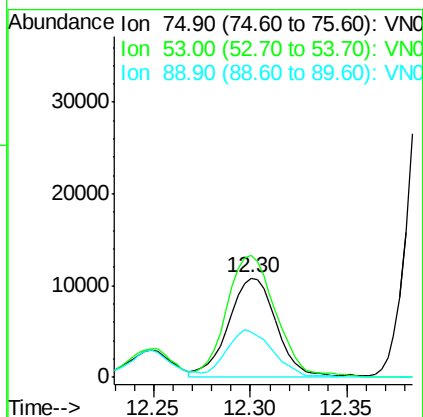
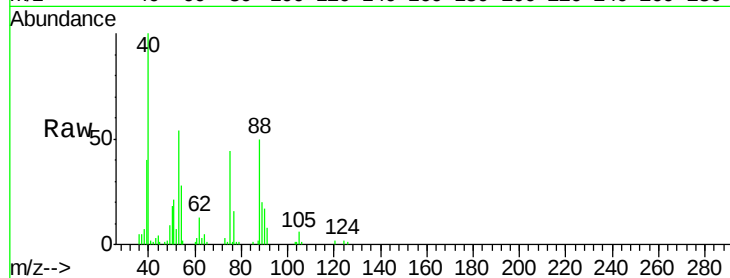
Tot Ion: 75 Resp: 18728

Ion Ratio Lower Upper

75 100

53 126.5 76.2 114.2#

89 43.5 39.2 58.8



#82

4-Chlorotoluene

Concen: 20.287 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054619.D

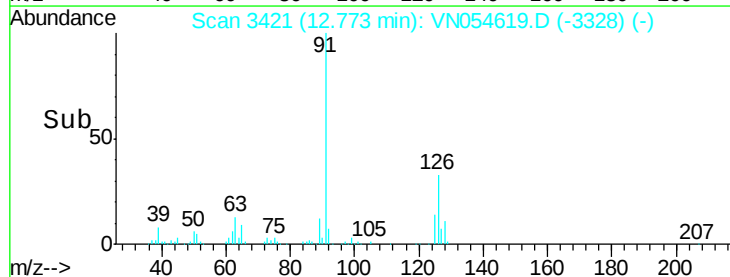
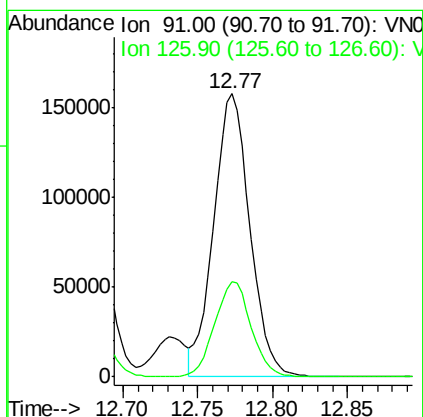
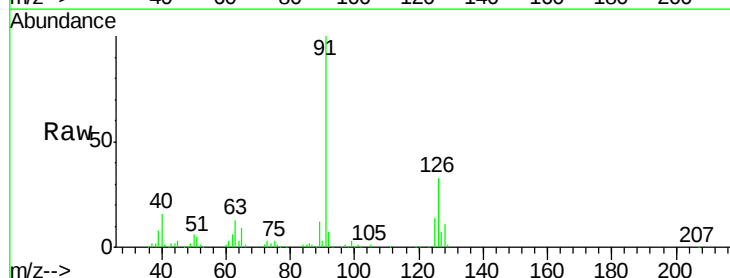
Acq: 23 Mar 2019 22:50

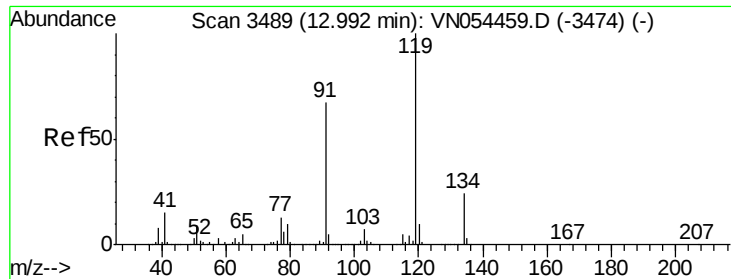
Tgt Ion: 91 Resp: 265423

Ion Ratio Lower Upper

91 100

126 33.8 18.1 54.1

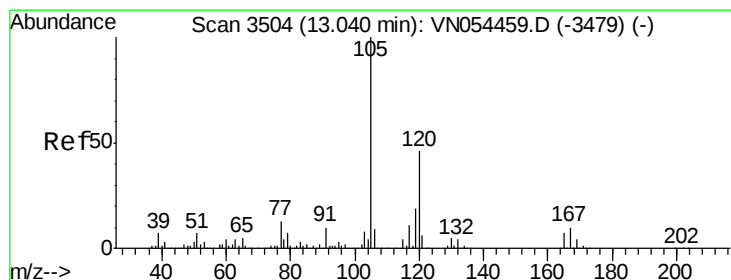
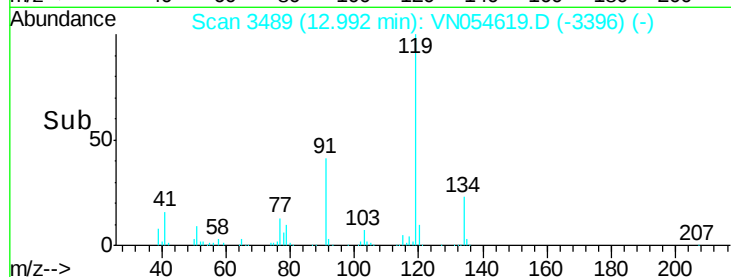
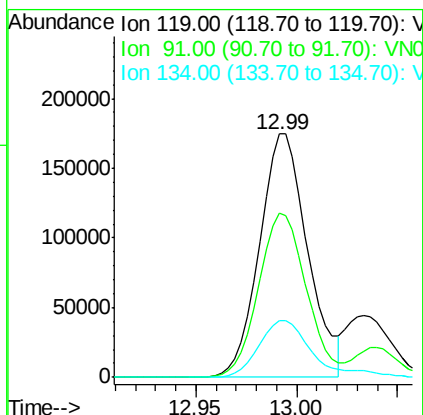
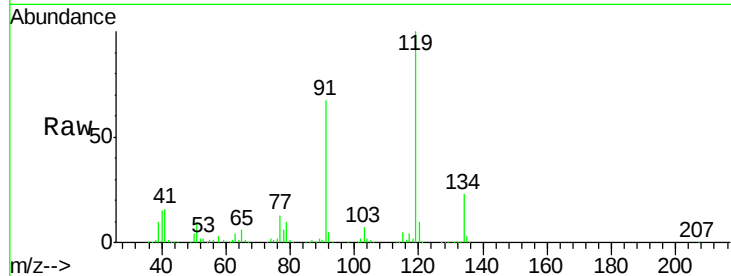




#83
 tert-Butylbenzene
 Concen: 20.456 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

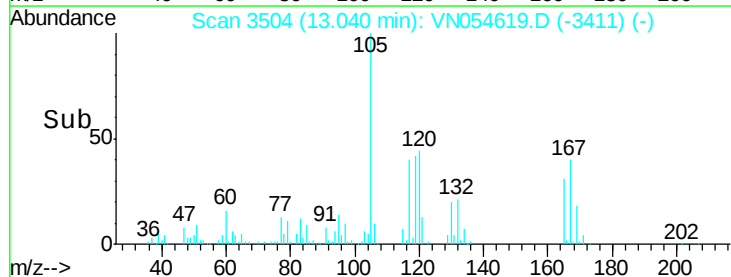
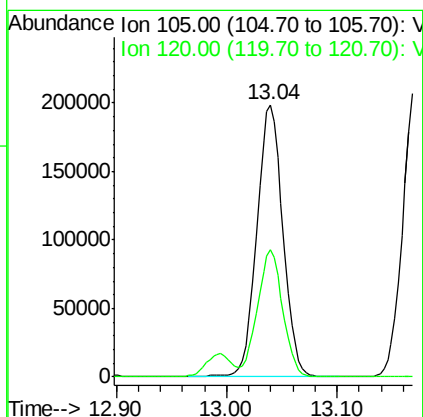
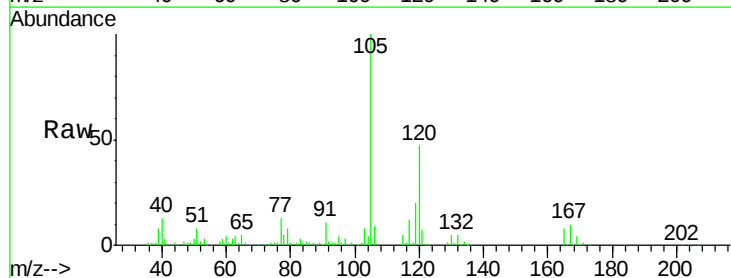
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0323MBSD01

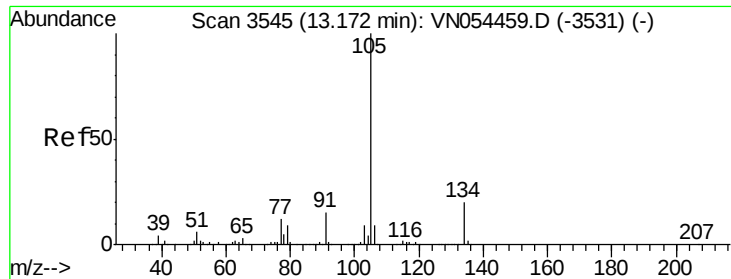
Tot Ion:119 Resp: 291295
 Ion Ratio Lower Upper
 119 100
 91 66.5 30.9 92.8
 134 26.0 13.2 39.6



#84
 1,2,4-Trimethylbenzene
 Concen: 20.193 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Tgt Ion:105 Resp: 324141
 Ion Ratio Lower Upper
 105 100
 120 45.5 23.4 70.3





#85

sec-Butylbenzene

Concen: 19.898 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

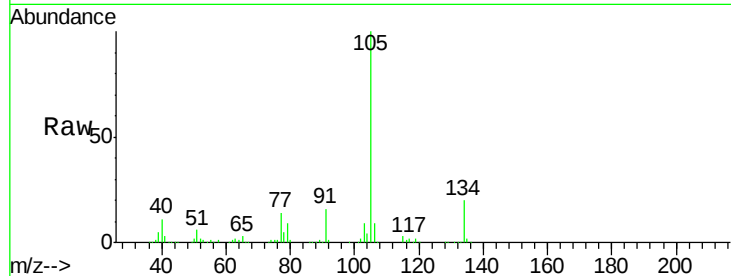
VN0323MBSD01

Tot Ion:105 Resp: 353229

Ion Ratio Lower Upper

105 100

134 20.6 10.7 32.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

250000

200000

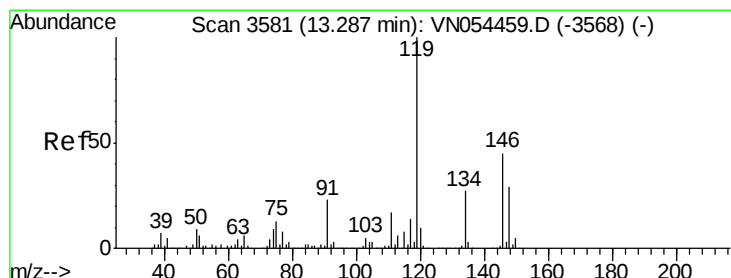
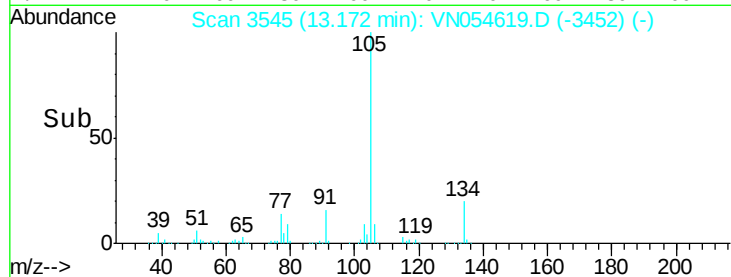
150000

100000

50000

0

Time--> 13.10 13.15 13.20 13.25



#86

p-Isopropyltoluene

Concen: 19.329 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

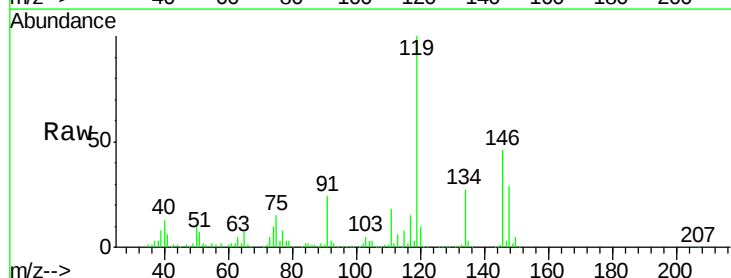
Tgt Ion:119 Resp: 306981

Ion Ratio Lower Upper

119 100

134 27.4 13.6 40.8

91 23.8 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

250000

200000

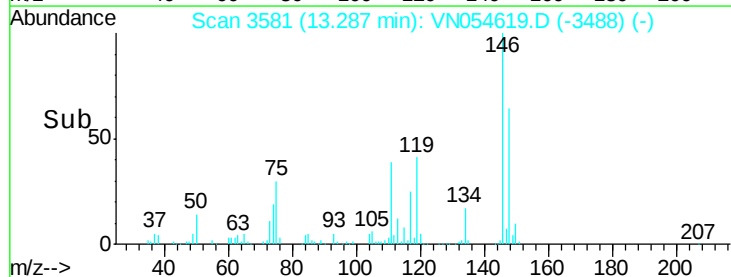
150000

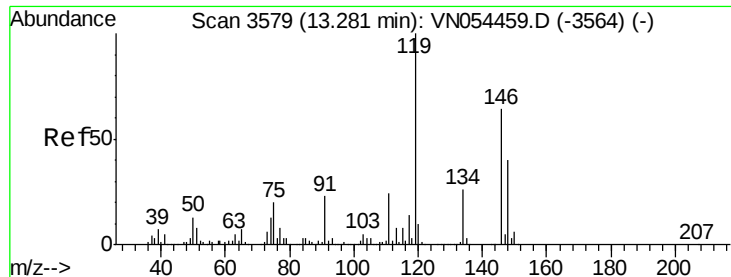
100000

50000

0

Time--> 13.25 13.30 13.35

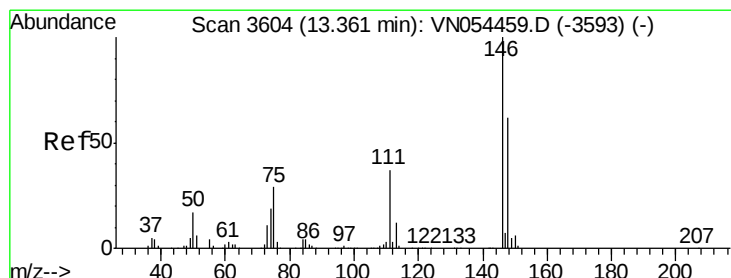
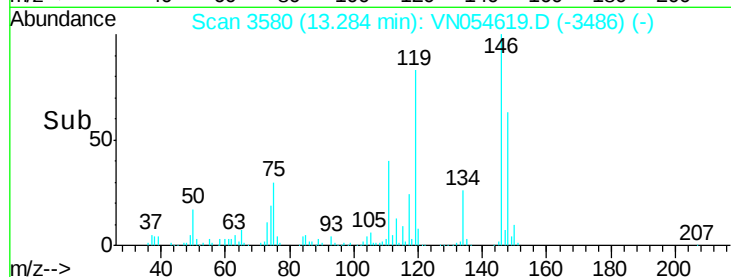
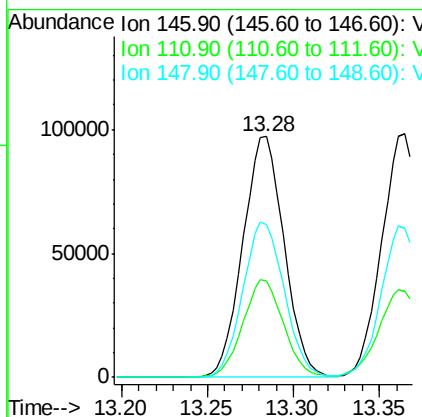
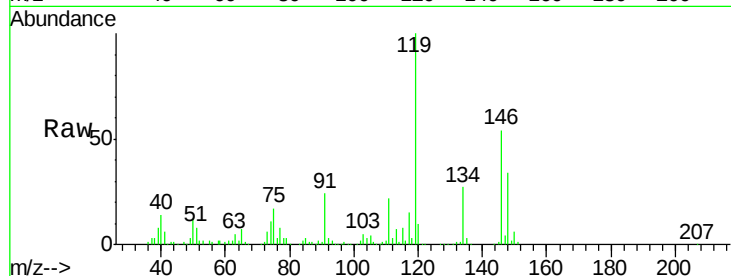




#87
 1,3-Dichlorobenzene
 Concen: 19.759 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

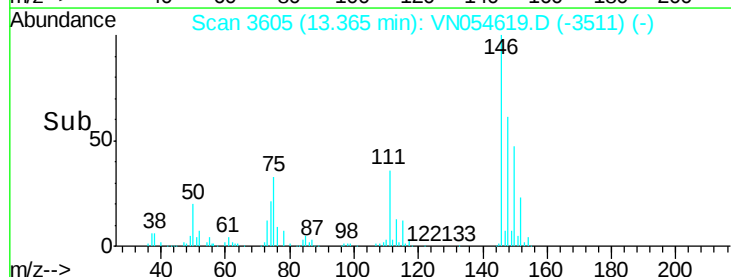
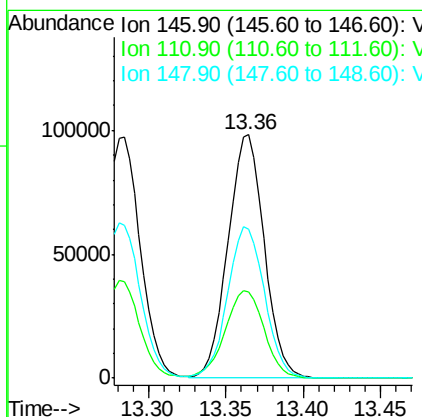
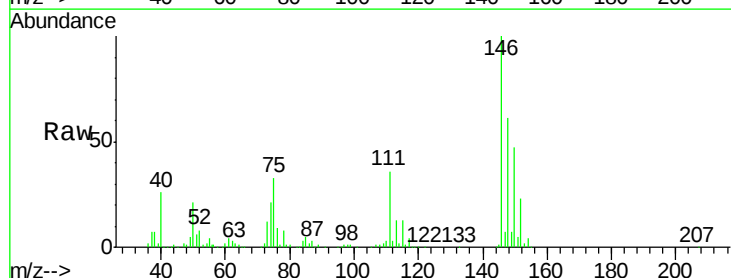
Instrument :
 MSVOA_N
 ClientSampled :
 VN0323MBSD01

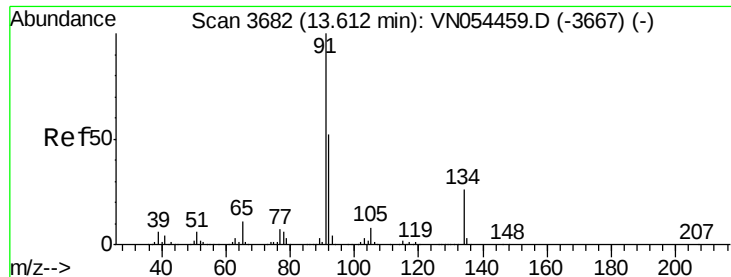
Tot Ion:146 Resp: 162105
 Ion Ratio Lower Upper
 146 100
 111 39.9 18.8 56.3
 148 64.5 32.2 96.6



#88
 1,4-Dichlorobenzene
 Concen: 20.043 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054619.D
 Acq: 23 Mar 2019 22:50

Tgt Ion:146 Resp: 159984
 Ion Ratio Lower Upper
 146 100
 111 38.6 18.1 54.1
 148 63.4 32.0 96.0

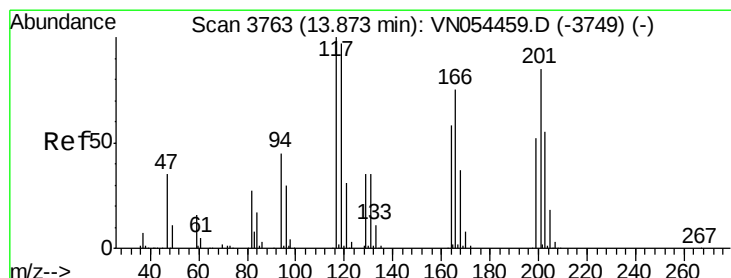
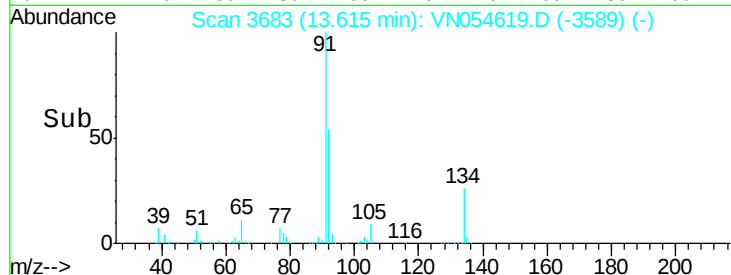
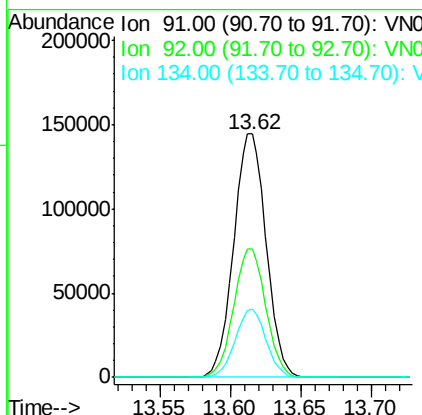
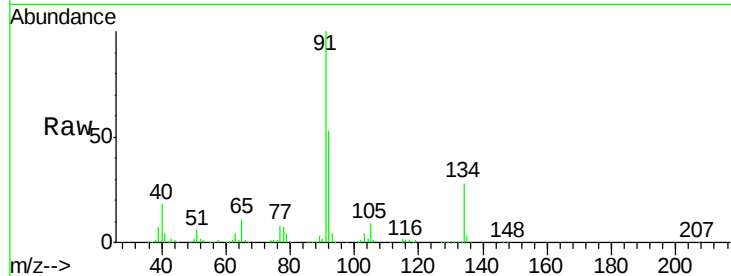




#89
n-Butylbenzene
Concen: 18.750 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

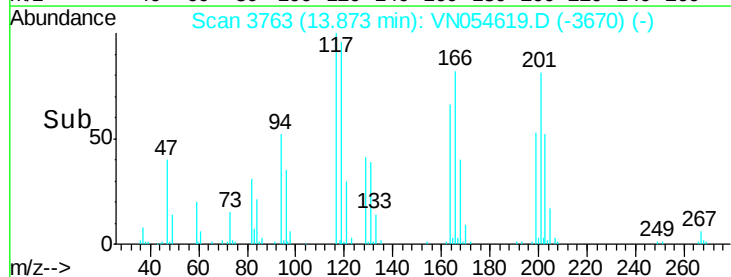
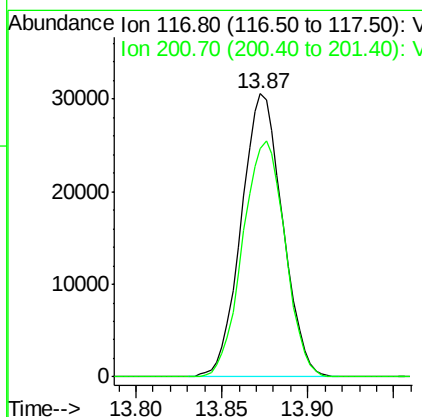
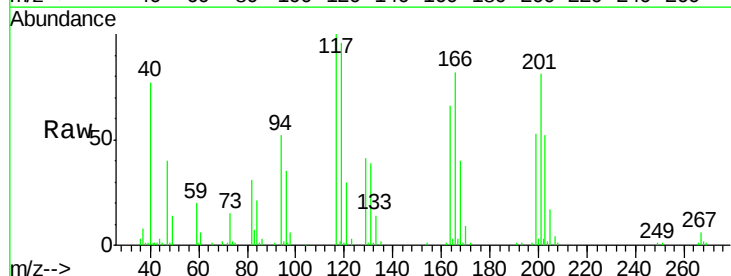
Instrument :
MSVOA_N
ClientSampleId :
VN0323MBSD01

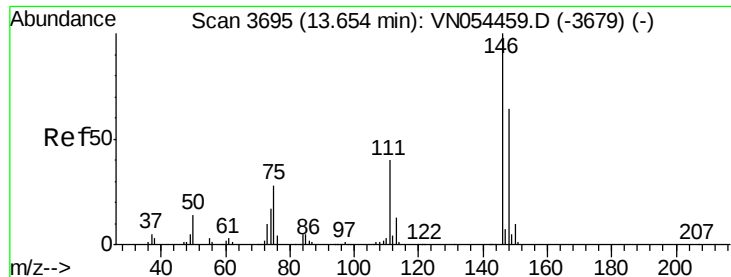
Tot Ion: 91 Resp: 232850
Ion Ratio Lower Upper
91 100
92 52.4 26.2 78.6
134 26.6 14.3 42.9



#90
Hexachloroethane
Concen: 20.716 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054619.D
Acq: 23 Mar 2019 22:50

Tgt Ion: 117 Resp: 51069
Ion Ratio Lower Upper
117 100
201 85.2 48.1 144.4





#91

1,2-Dichlorobenzene

Concen: 20.771 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBS01

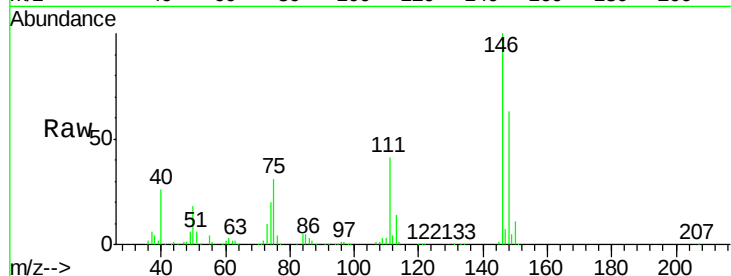
Tot Ion:146 Resp: 165055

Ion Ratio Lower Upper

146 100

111 41.3 19.1 57.3

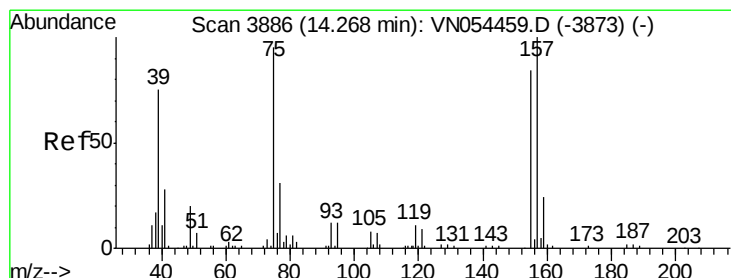
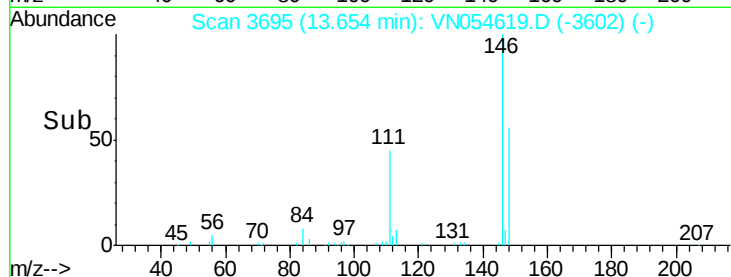
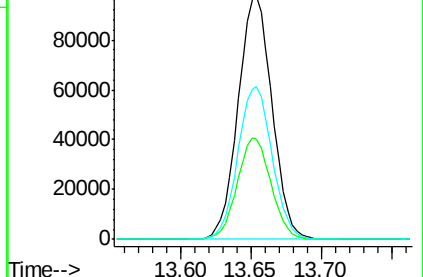
148 63.4 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 23.718 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

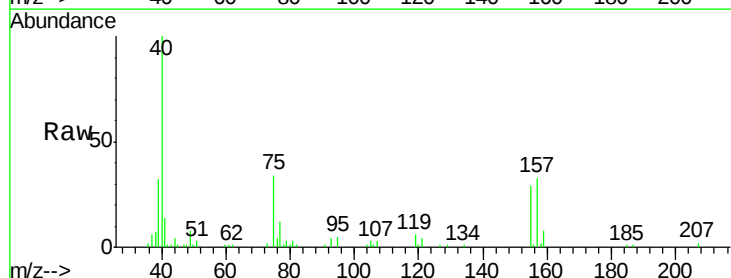
Tgt Ion: 75 Resp: 15852

Ion Ratio Lower Upper

75 100

155 81.4 50.1 150.3

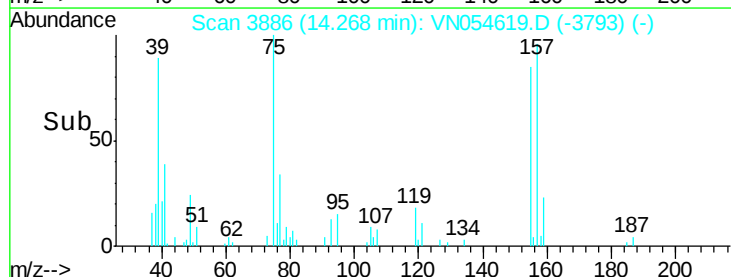
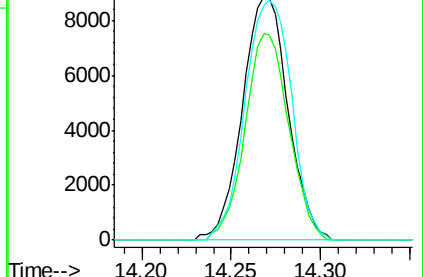
157 100.6 63.1 189.3

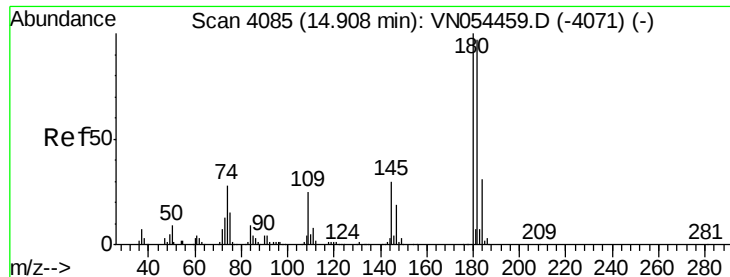


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 18.460 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

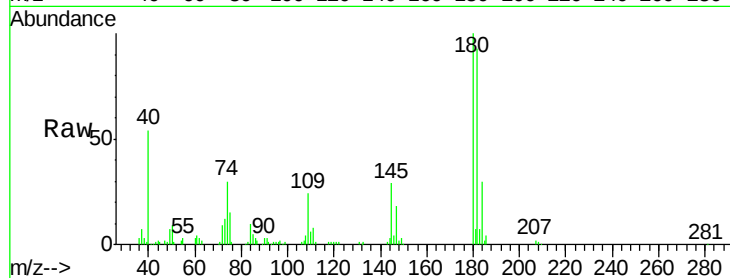
Tot Ion:180 Resp: 73125

Ion Ratio Lower Upper

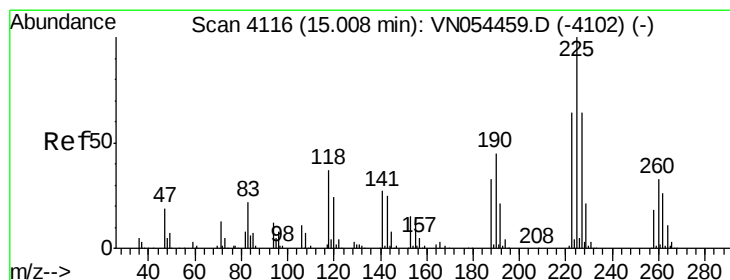
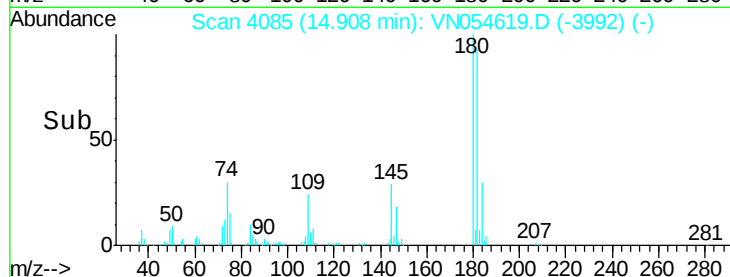
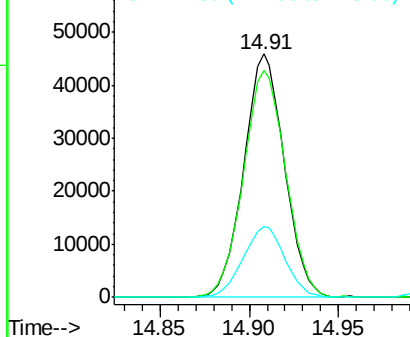
180 100

182 97.3 48.0 144.2

145 30.1 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 19.052 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

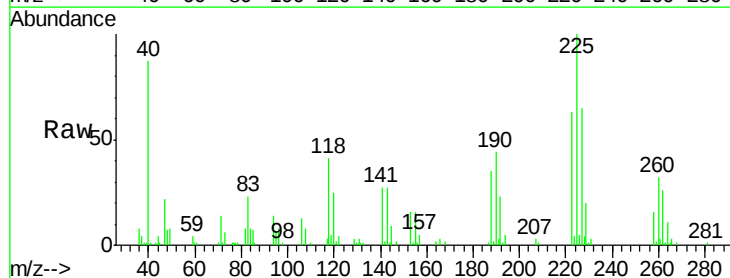
Tgt Ion:225 Resp: 45818

Ion Ratio Lower Upper

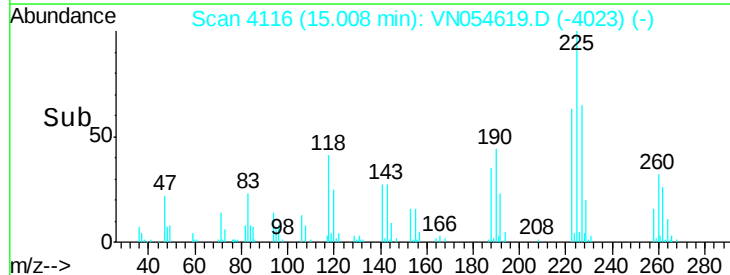
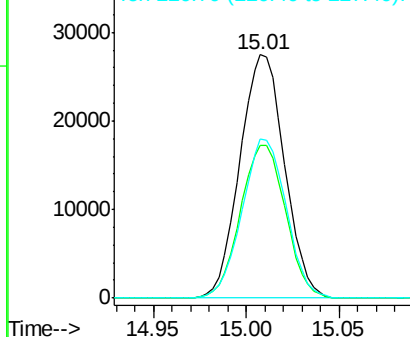
225 100

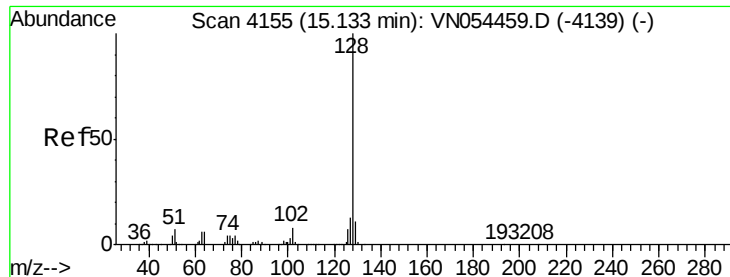
223 63.7 31.1 93.5

227 64.9 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 19.887 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

Instrument :

MSVOA_N

ClientSampleId :

VN0323MBSD01

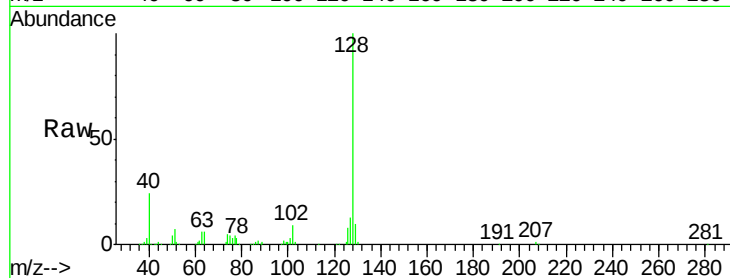
Tot Ion:128 Resp: 175720

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

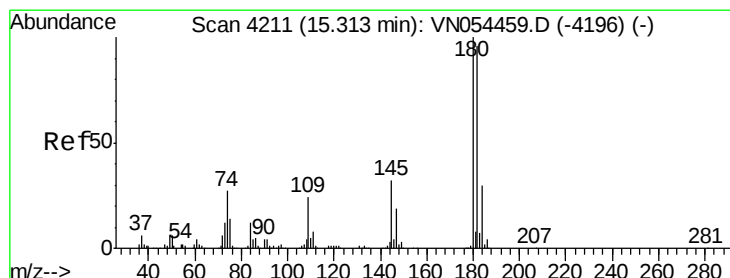
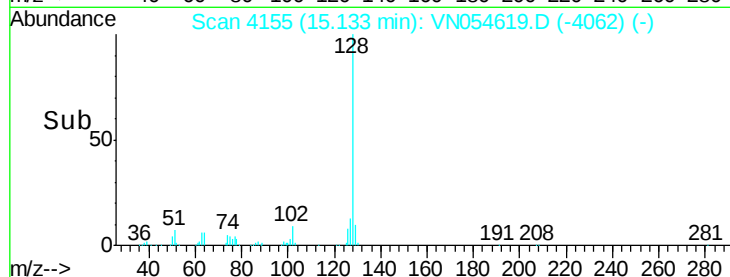
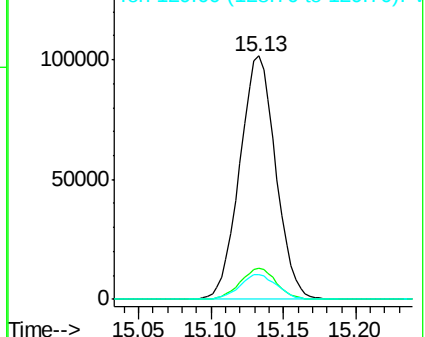
129 10.6 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 19.379 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054619.D

Acq: 23 Mar 2019 22:50

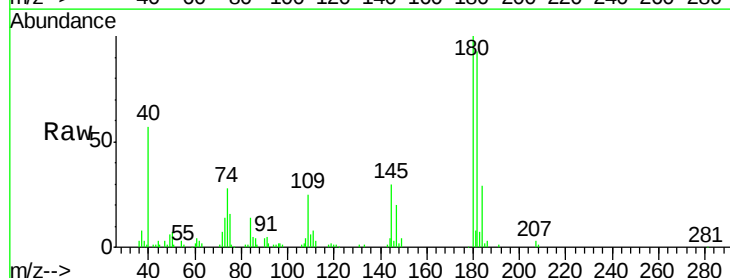
Tgt Ion:180 Resp: 76404

Ion Ratio Lower Upper

180 100

182 94.1 47.5 142.6

145 30.1 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

