

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120419\
 Data File : VN059488.D
 Acq On : 4 Dec 2019 16:10
 Operator : JC/SP
 Sample : VN1204WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 05 00:47:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	334899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	529987	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	481911	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	220260	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	219996	52.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.76%	
35) Dibromofluoromethane	7.57	113	170963	51.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.58%	
50) Toluene-d8	10.08	98	676092	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
62) 4-Bromofluorobenzene	12.40	95	235676	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	74508	19.993	ug/l 100
3) Chloromethane	2.04	50	101994	20.420	ug/l 100
4) Vinyl Chloride	2.17	62	84622	28.233	ug/l 99
5) Bromomethane	2.54	94	34041	18.689	ug/l 99
6) Chloroethane	2.69	64	29419	16.625	ug/l 100
7) Trichlorofluoromethane	3.00	101	77875	21.513	ug/l 99
8) Diethyl Ether	3.39	74	47155	19.994	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.73	101	72867	20.506	ug/l 99
10) Methyl Iodide	3.93	142	92241	20.500	ug/l 99
11) Tert butyl alcohol	4.75	59	76737	97.883	ug/l 100
12) 1,1-Dichloroethene	3.71	96	69268	19.941	ug/l 97
13) Acrolein	3.58	56	66110	97.166	ug/l 99
14) Allyl chloride	4.29	41	126095	18.431	ug/l 92
15) Acrylonitrile	4.95	53	222109	104.723	ug/l 99
16) Acetone	3.79	43	239761	100.078	ug/l 100
17) Carbon Disulfide	4.03	76	225171	18.998	ug/l 100
18) Methyl Acetate	4.29	43	116309	20.767	ug/l 99
19) Methyl tert-butyl Ether	5.01	73	247711	20.924	ug/l 98
20) Methylene Chloride	4.52	84	83910	20.711	ug/l 99
21) trans-1,2-Dichloroethene	5.01	96	77573	19.959	ug/l 97
22) Diisopropyl ether	5.92	45	269065	21.130	ug/l 94
23) Vinyl Acetate	5.86	43	1117253	109.341	ug/l 100
24) 1,1-Dichloroethane	5.82	63	150738	20.838	ug/l 99
25) 2-Butanone	6.81	43	314235	99.373	ug/l 97
26) 2,2-Dichloropropane	6.80	77	130531	20.863	ug/l 99
27) cis-1,2-Dichloroethene	6.80	96	88618	20.530	ug/l 99
28) Bromochloromethane	7.17	49	61331	22.107	ug/l 100
29) Tetrahydrofuran	7.18	42	205082	103.141	ug/l 99
30) Chloroform	7.35	83	176861	25.322	ug/l 98
31) Cyclohexane	7.63	56	142375	20.313	ug/l 97
32) 1,1,1-Trichloroethane	7.55	97	126048	20.763	ug/l 98
36) 1,1-Dichloropropene	7.77	75	110568	20.048	ug/l 99
37) Ethyl Acetate	6.90	43	125225	20.327	ug/l 99
38) Carbon Tetrachloride	7.75	117	109914	20.721	ug/l 99

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Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 05 00:47:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.07	83	131891	19.872	ug/l	97
40) Benzene	8.02	78	335936	20.801	ug/l	100
41) Methacrylonitrile	7.18	41	178381	71.445	ug/l #	100
42) 1,2-Dichloroethane	8.10	62	114782	20.922	ug/l	100
43) Isopropyl Acetate	8.14	43	191114	20.858	ug/l	99
44) Trichloroethene	8.82	130	84527	20.028	ug/l	97
45) 1,2-Dichloropropane	9.10	63	89054	20.639	ug/l	99
46) Dibromomethane	9.19	93	55289	20.581	ug/l	99
47) Bromodichloromethane	9.39	83	117305	21.778	ug/l	97
48) Methyl methacrylate	9.18	41	82535	19.966	ug/l	98
49) 1,4-Dioxane	9.18	88	22505	359.787	ug/l	97
51) 4-Methyl-2-Pentanone	9.97	43	593120	109.053	ug/l	99
52) Toluene	10.15	92	203422	20.826	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	128767	20.316	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	139178	20.717	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	79895	20.749	ug/l	99
56) Ethyl methacrylate	10.42	69	116606	19.614	ug/l	99
57) 1,3-Dichloropropane	10.70	76	138008	20.726	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	159187	85.945	ug/l	100
59) 2-Hexanone	10.74	43	441622	107.894	ug/l	99
60) Dibromochloromethane	10.90	129	84636	20.586	ug/l	99
61) 1,2-Dibromoethane	11.00	107	81464	20.475	ug/l	98
64) Tetrachloroethene	10.62	164	75532	18.426	ug/l	98
65) Chlorobenzene	11.43	112	208825	19.822	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	79056	20.884	ug/l	98
67) Ethyl Benzene	11.51	91	379661	20.569	ug/l	100
68) m/p-Xylenes	11.62	106	283780	41.290	ug/l	98
69) o-Xylene	11.95	106	134345	20.532	ug/l	100
70) Styrene	11.96	104	209722	20.078	ug/l	99
71) Bromoform	12.13	173	59252	20.081	ug/l #	99
73) Isopropylbenzene	12.25	105	361366	20.458	ug/l	100
74) N-amyl acetate	12.07	43	142403	20.015	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	119429	21.078	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	160305	29.271	ug/l #	100
77) Bromobenzene	12.53	156	86946	19.697	ug/l	97
78) n-propylbenzene	12.59	91	417112	20.291	ug/l	100
79) 2-Chlorotoluene	12.67	91	248400	20.046	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	305902	20.723	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	40050	19.192	ug/l	94
82) 4-Chlorotoluene	12.77	91	254200	19.883	ug/l	100
83) tert-Butylbenzene	12.99	119	261816	20.429	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	298133	20.666	ug/l	99
85) sec-Butylbenzene	13.17	105	344776	20.298	ug/l	100
86) p-Isopropyltoluene	13.29	119	309390	20.326	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	152534	19.599	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	151175	19.260	ug/l	99
89) n-Butylbenzene	13.62	91	265598	19.476	ug/l	100
90) Hexachloroethane	13.88	117	57636	19.633	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	147765	19.805	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22705	19.350	ug/l	97

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Instrument :
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ClientSampleId :

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Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 2019
Response via : Initial Calibration

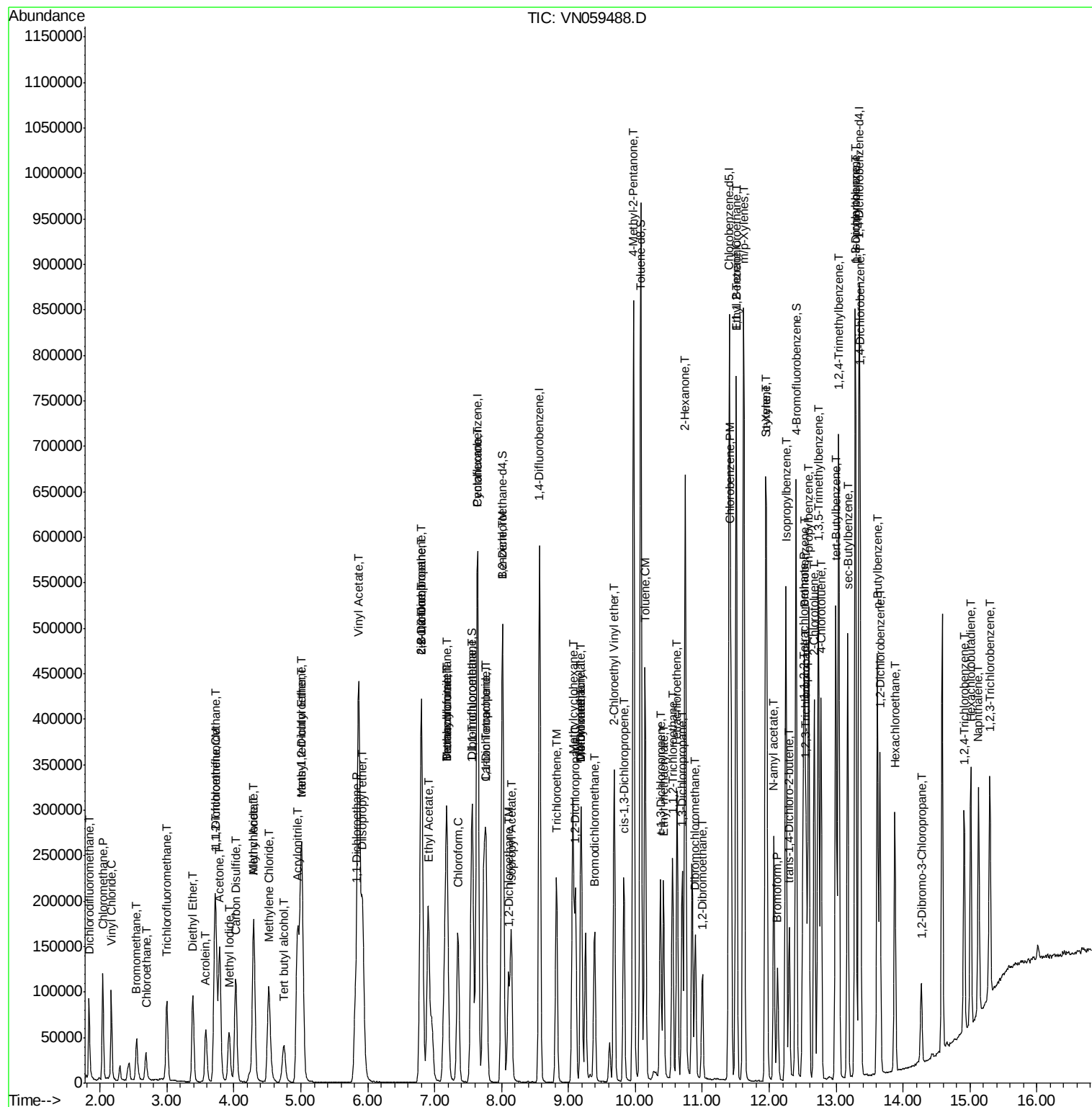
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	78132	17.154	ug/l	99
94) Hexachlorobutadiene	15.01	225	54253	20.230	ug/l	99
95) Naphthalene	15.13	128	205198	17.986	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	77307	18.197	ug/l	99

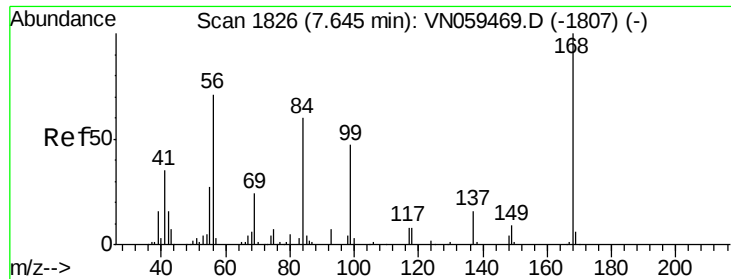
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120419\
Data File : VN059488.D
Acq On : 4 Dec 2019 16:10
Operator : JC/SP
Sample : VN1204WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampled :

Quant Time: Dec 05 00:47:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

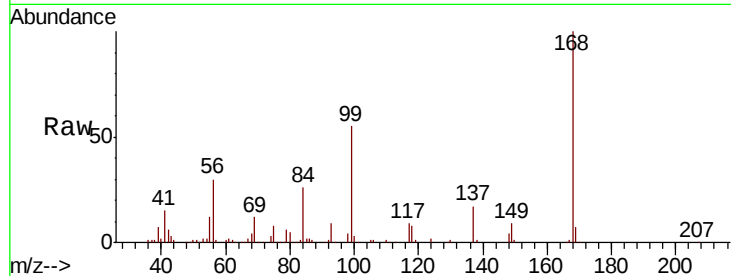
ClientSampleId :

Tot Ion:168 Resp: 334899

Ion Ratio Lower Upper

168 100

99 55.3 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

150000

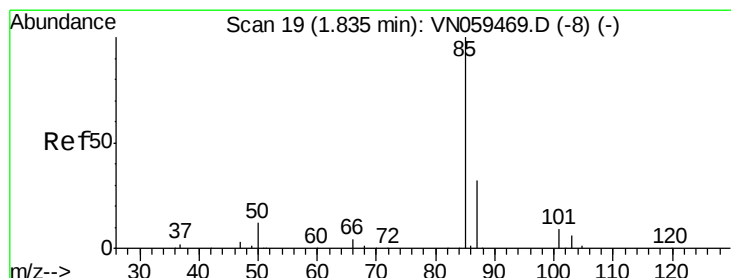
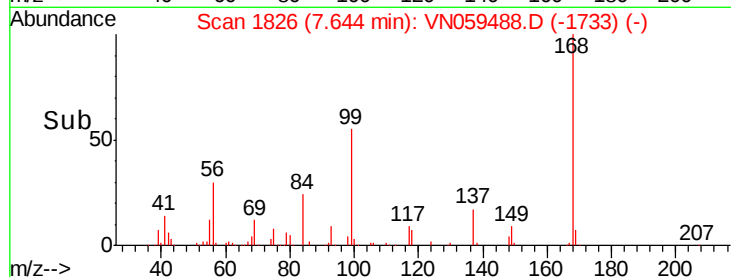
100000

50000

0

7.50 7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 19.993 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059488.D

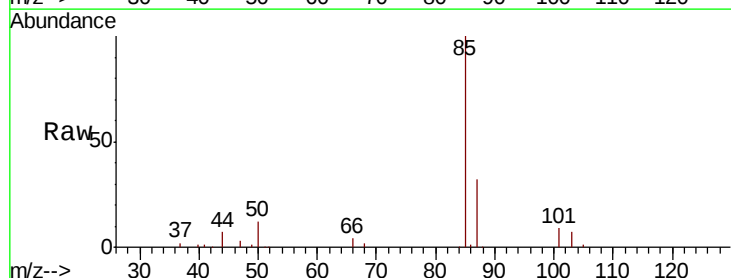
Acq: 4 Dec 2019 16:10

Tgt Ion: 85 Resp: 74508

Ion Ratio Lower Upper

85 100

87 32.4 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

60000

50000

40000

30000

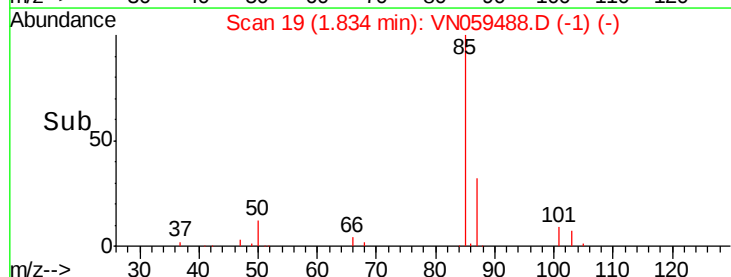
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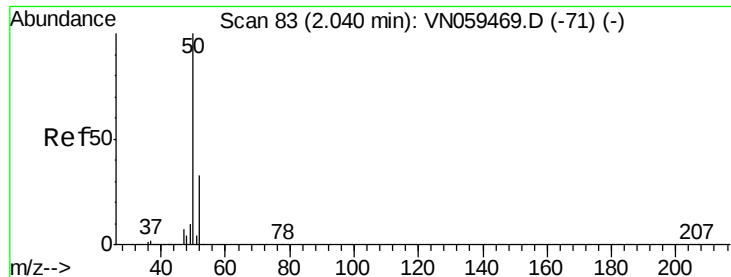
10000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 20.420 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

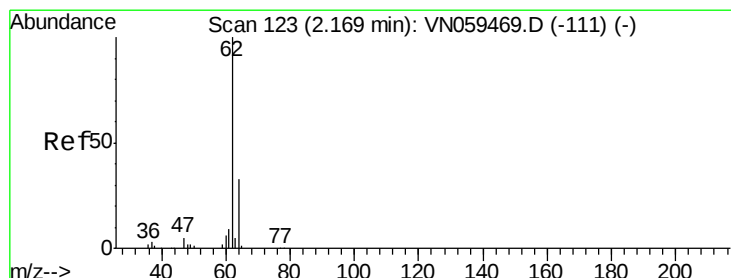
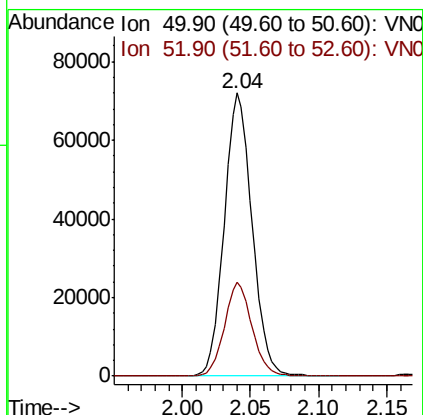
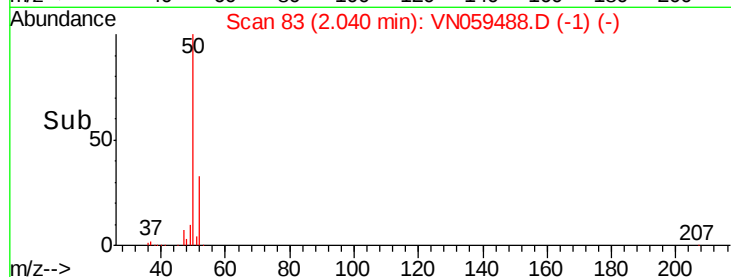
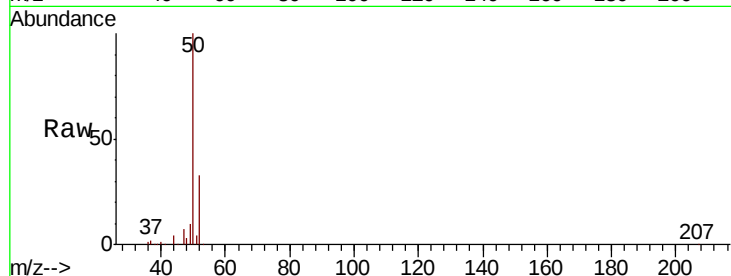
ClientSampled :

Tot Ion: 50 Resp: 101994

Ion Ratio Lower Upper

50 100

52 33.4 26.5 39.7



#4

Vinyl Chloride

Concen: 28.233 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059488.D

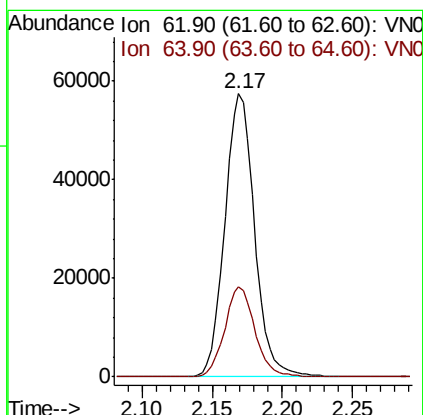
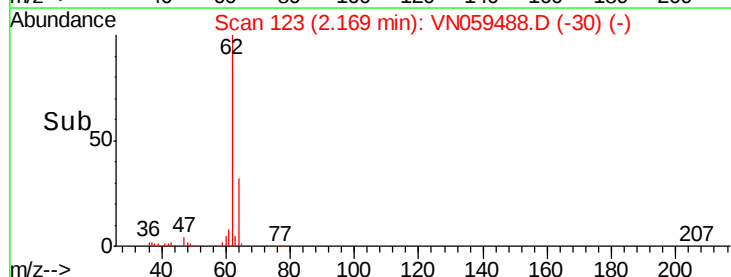
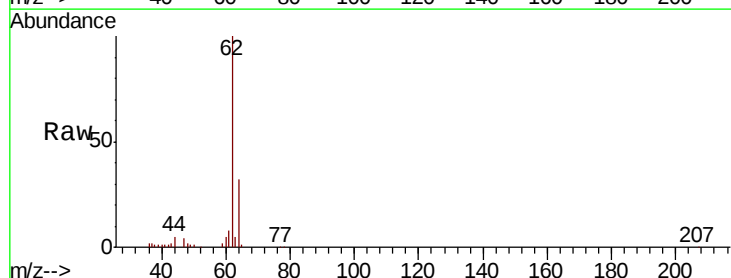
Acq: 4 Dec 2019 16:10

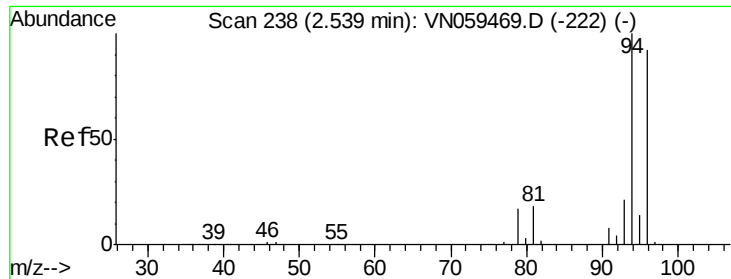
Tgt Ion: 62 Resp: 84622

Ion Ratio Lower Upper

62 100

64 32.0 26.0 39.0





#5

Bromomethane

Concen: 18.689 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

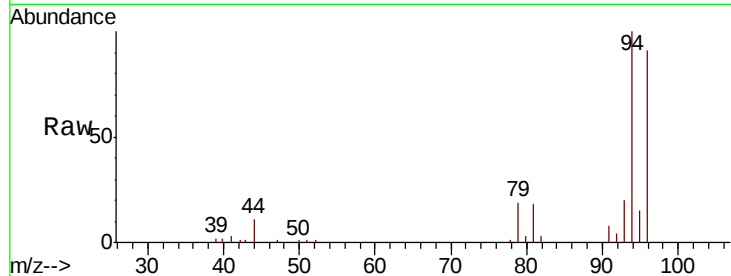
ClientSampleId :

Tot Ion: 94 Resp: 34041

Ion Ratio Lower Upper

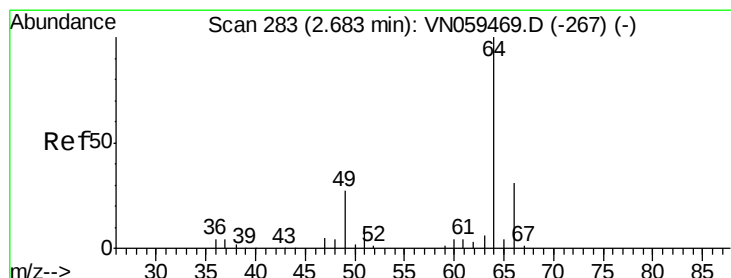
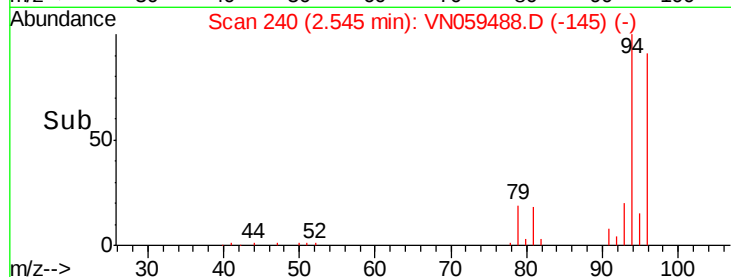
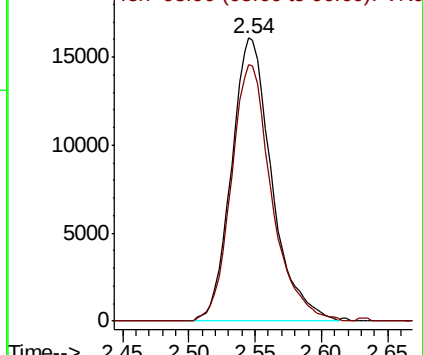
94 100

96 90.5 73.5 110.3



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC



#6

Chloroethane

Concen: 16.625 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN059488.D

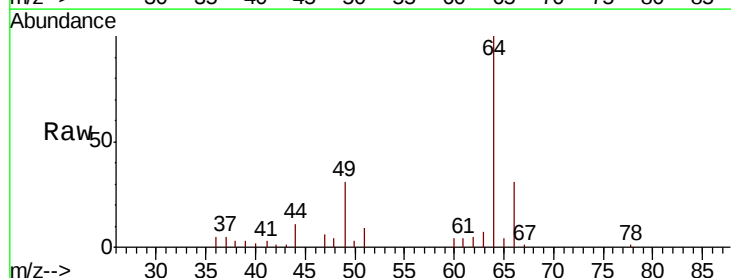
Acq: 4 Dec 2019 16:10

Tgt Ion: 64 Resp: 29419

Ion Ratio Lower Upper

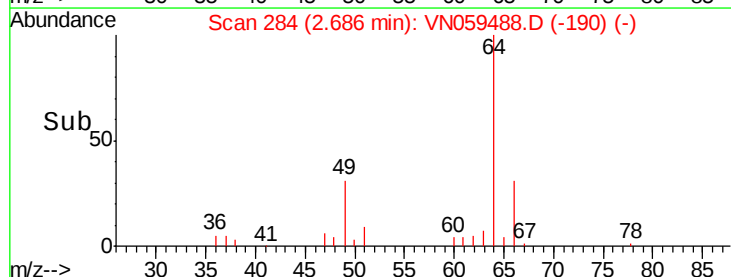
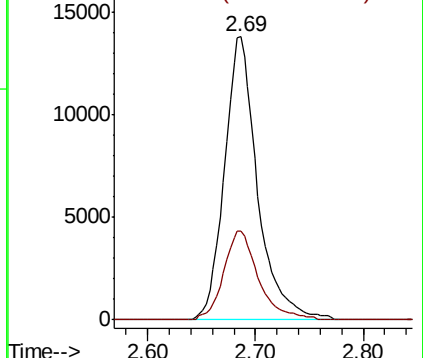
64 100

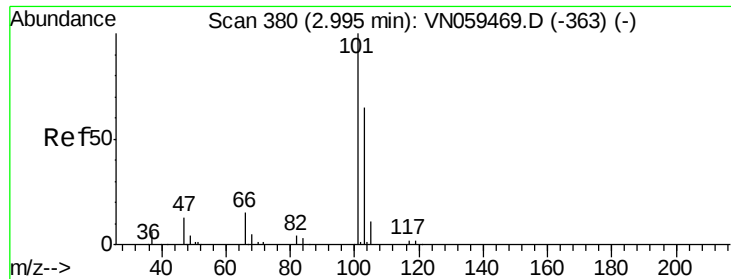
66 31.4 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC



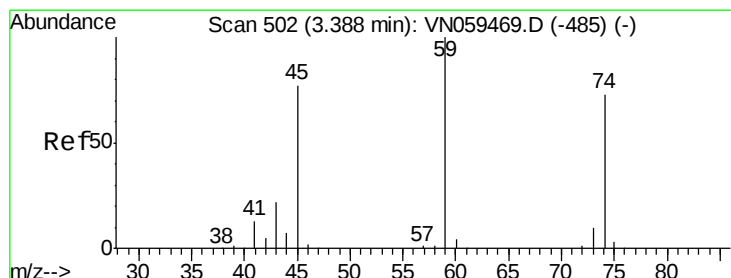
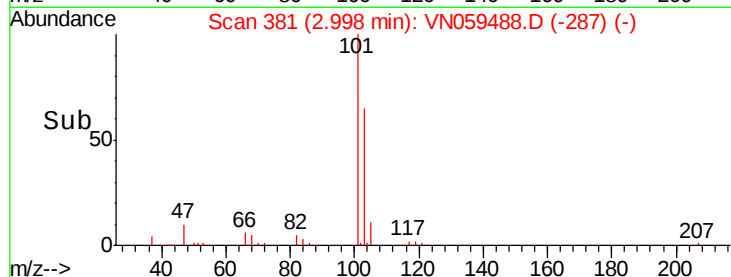
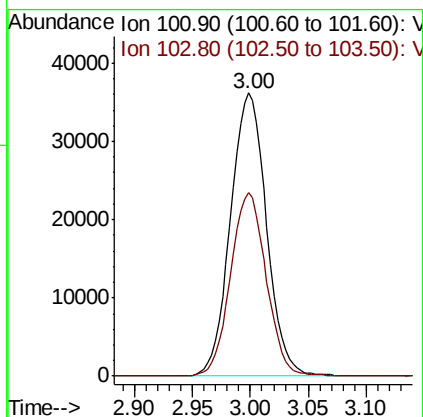
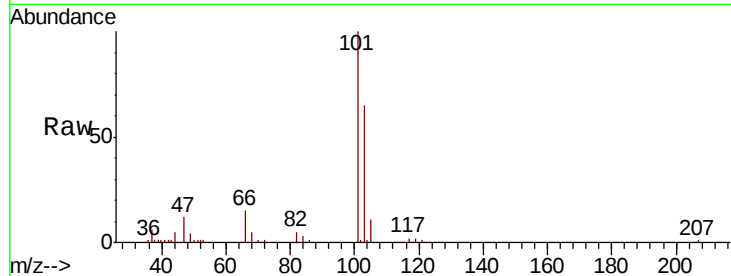


#7

Trichlorofluoromethane
Concen: 21.513 ug/l
RT: 3.00 min Scan# 381
Delta R.T. 0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Instrument :
MSVOA_N
ClientSampled :

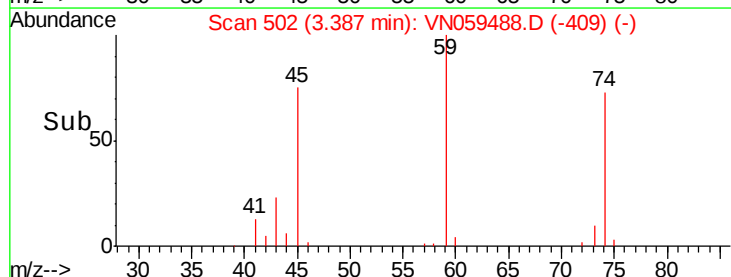
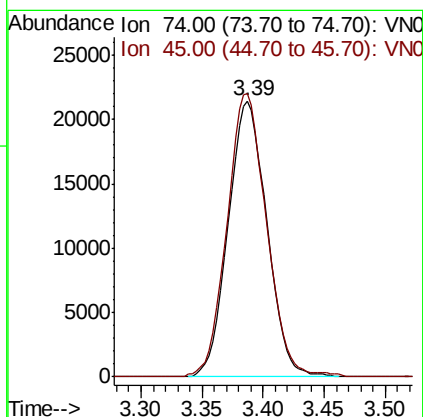
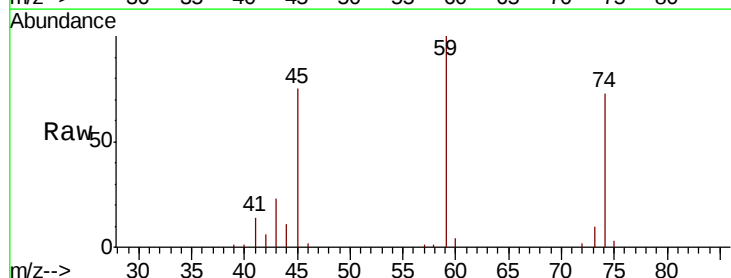
Tot Ion:101 Resp: 77875
Ion Ratio Lower Upper
101 100
103 64.9 52.4 78.6

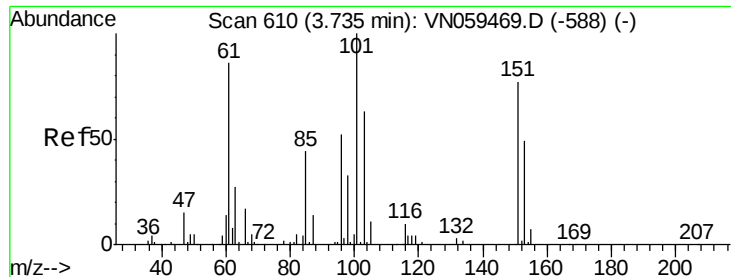


#8

Diethyl Ether
Concen: 19.994 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion: 74 Resp: 47155
Ion Ratio Lower Upper
74 100
45 105.1 52.3 157.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.506 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampleId :

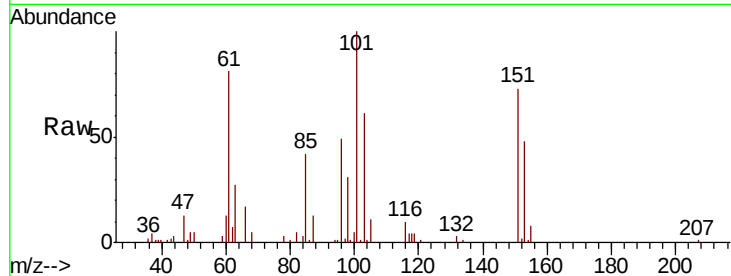
Tot Ion:101 Resp: 72867

Ion Ratio Lower Upper

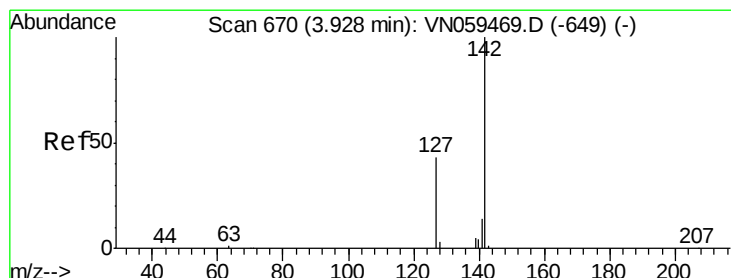
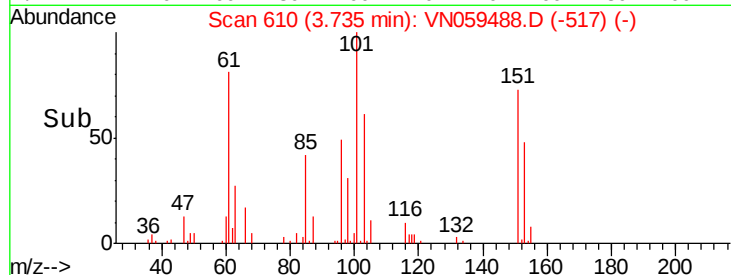
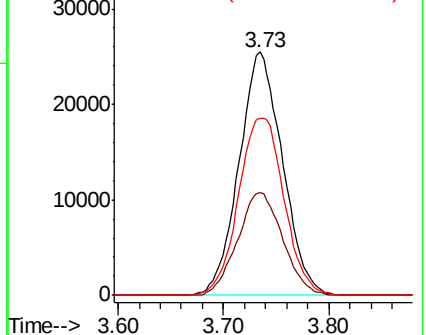
101 100

85 43.8 35.2 52.8

151 76.5 62.4 93.6



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.500 ug/l

RT: 3.93 min Scan# 670

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

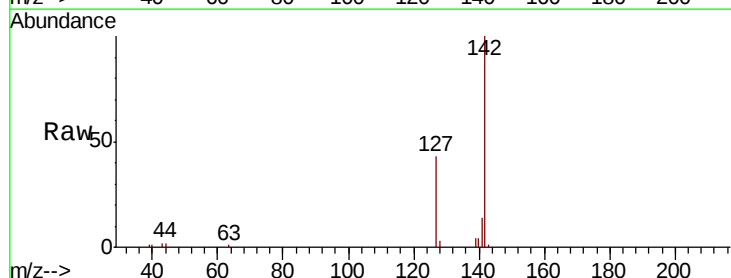
Tgt Ion:142 Resp: 92241

Ion Ratio Lower Upper

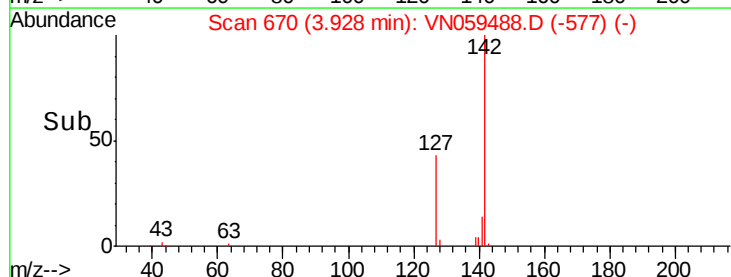
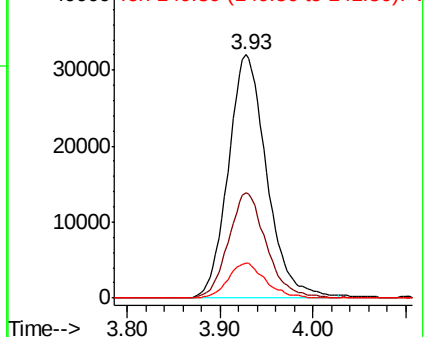
142 100

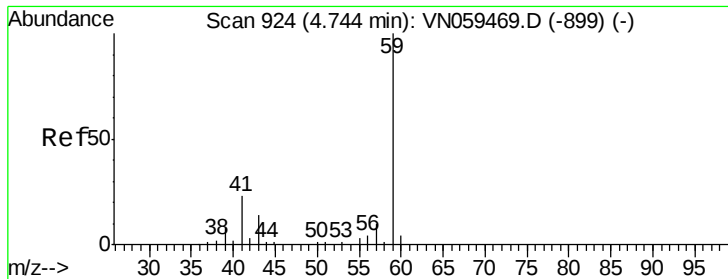
127 42.7 34.6 52.0

141 13.9 11.4 17.0



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

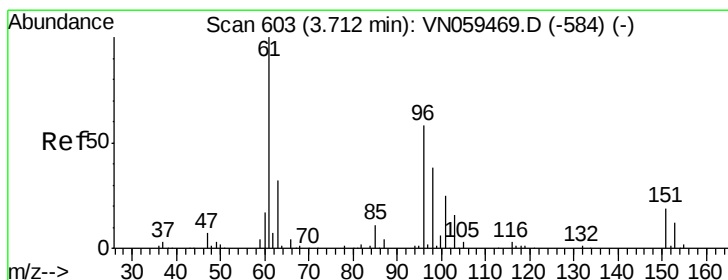
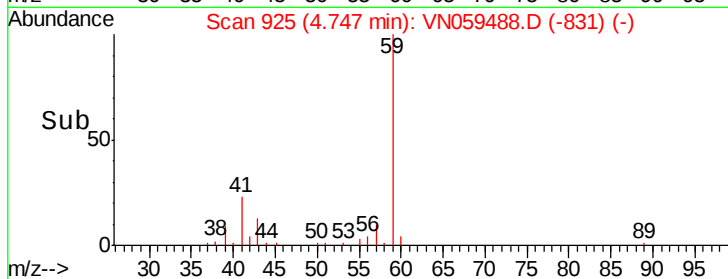
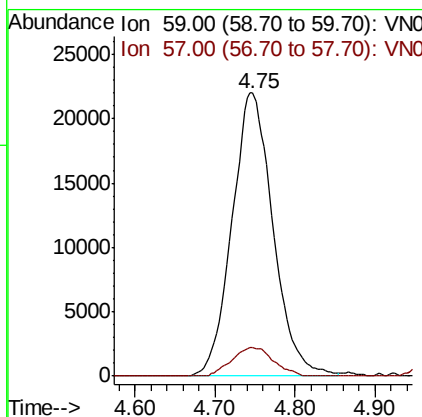
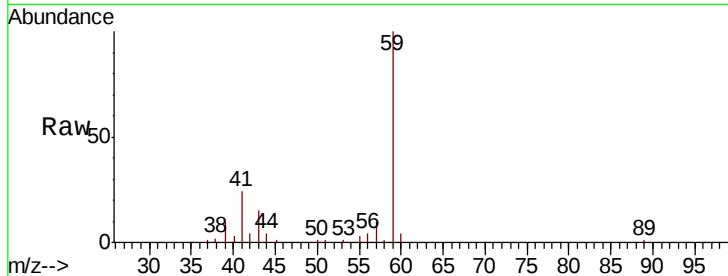




#11
Tert butyl alcohol
Concen: 97.883 ug/l
RT: 4.75 min Scan# 925
Delta R.T. 0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

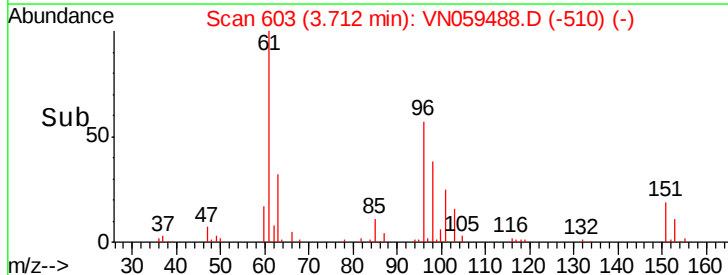
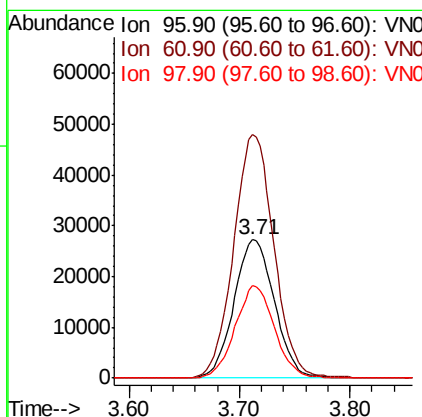
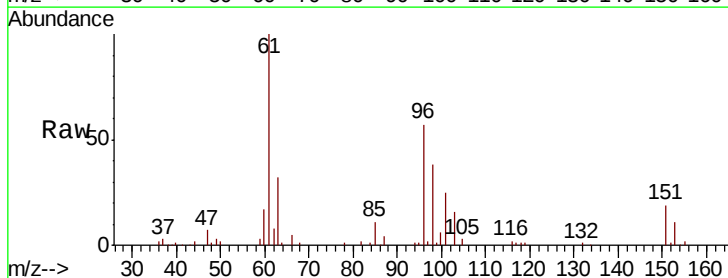
Instrument :
MSVOA_N
ClientSampled :

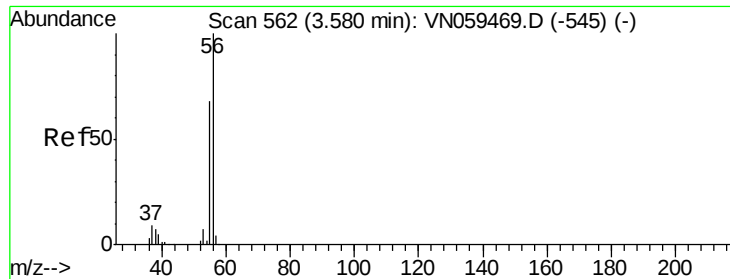
Tot Ion: 59 Resp: 76737
Ion Ratio Lower Upper
59 100
57 10.2 8.1 12.1



#12
1,1-Dichloroethene
Concen: 19.941 ug/l
RT: 3.71 min Scan# 603
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion: 96 Resp: 69268
Ion Ratio Lower Upper
96 100
61 175.7 137.1 205.7
98 66.6 52.4 78.6





#13

Acrolein

Concen: 97.166 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

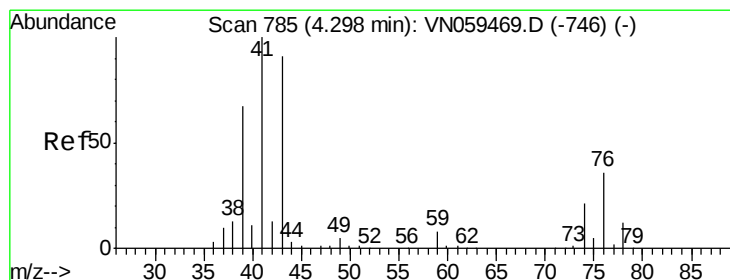
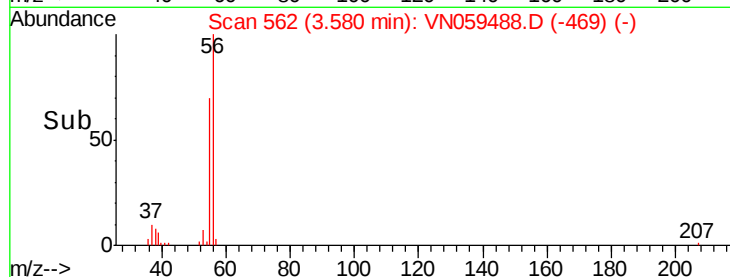
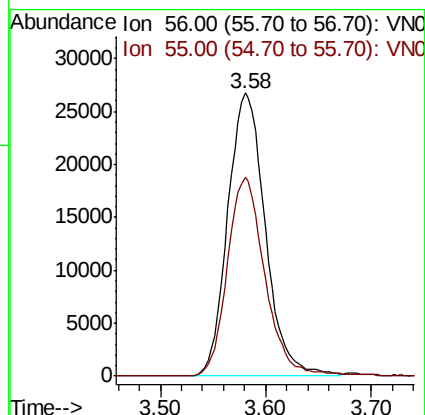
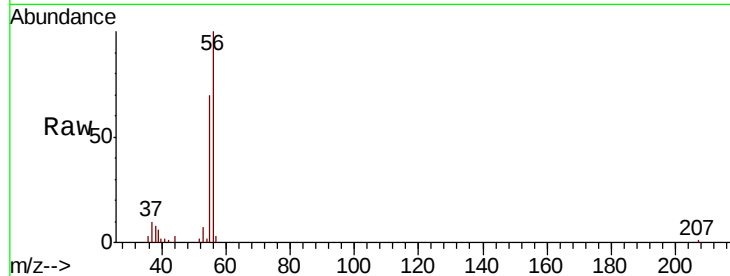
ClientSampleId :

Tot Ion: 56 Resp: 66110

Ion Ratio Lower Upper

56 100

55 70.1 56.5 84.7



#14

Allyl chloride

Concen: 18.431 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

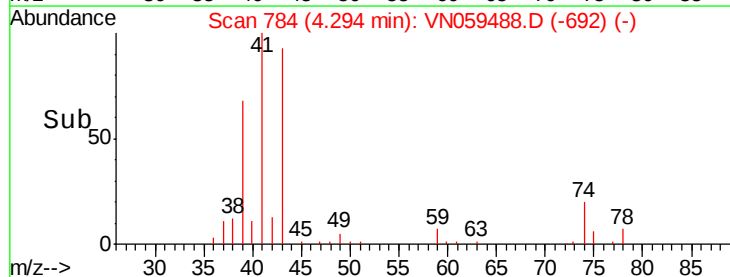
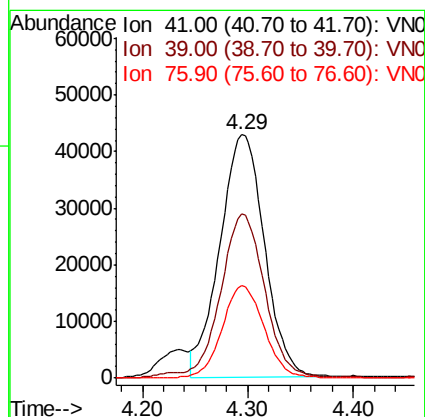
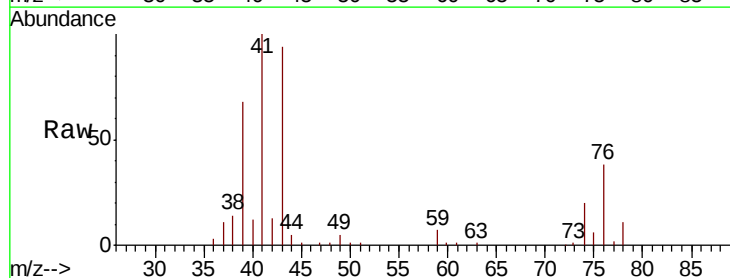
Tgt Ion: 41 Resp: 126095

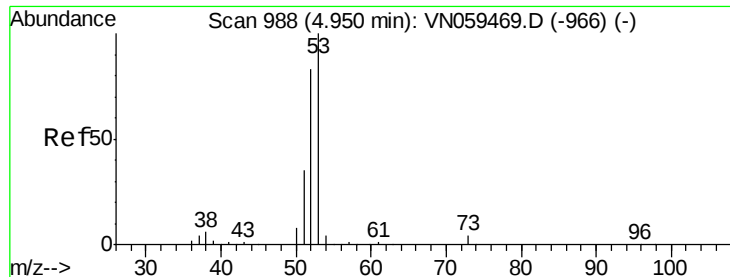
Ion Ratio Lower Upper

41 100

39 67.6 49.3 73.9

76 35.8 25.6 38.4





#15

Acrylonitrile

Concen: 104.723 ug/l

RT: 4.95 min Scan# 988

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampleId :

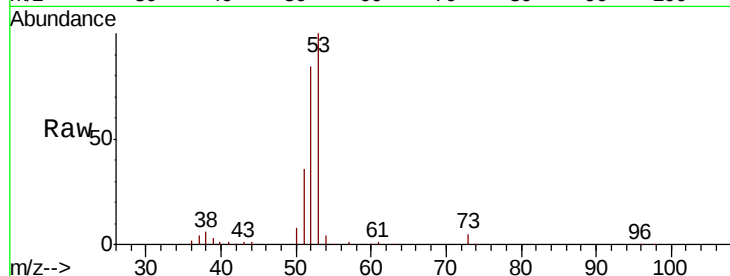
Tot Ion: 53 Resp: 222109

Ion Ratio Lower Upper

53 100

52 82.7 65.5 98.3

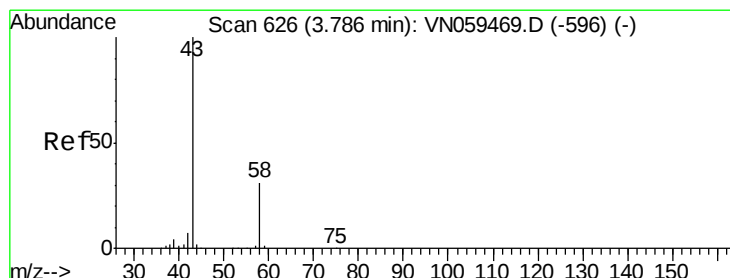
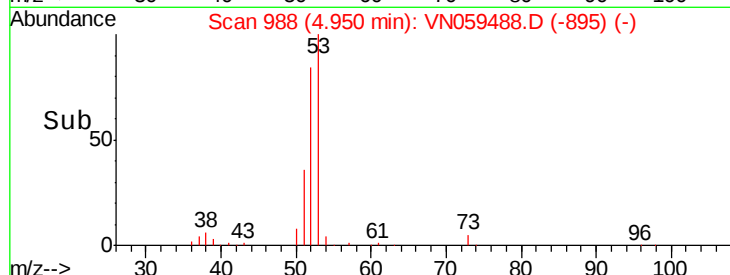
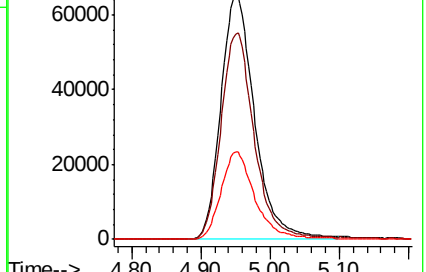
51 35.8 28.5 42.7



Abundance Ion 53.00 (52.70 to 53.70): VN059469.D (-966) (-)

Ion 52.00 (51.70 to 52.70): VN059469.D (-966) (-)

Ion 51.00 (50.70 to 51.70): VN059469.D (-966) (-)



#16

Acetone

Concen: 100.078 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.00 min

Lab File: VN059488.D

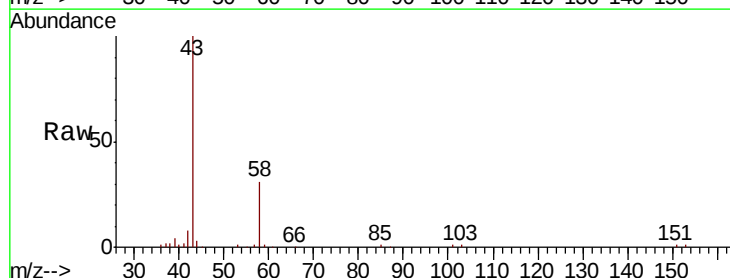
Acq: 4 Dec 2019 16:10

Tgt Ion: 43 Resp: 239761

Ion Ratio Lower Upper

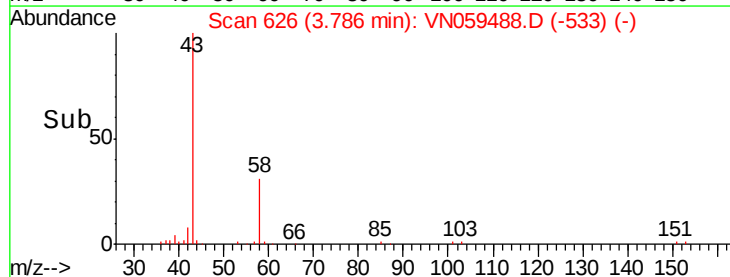
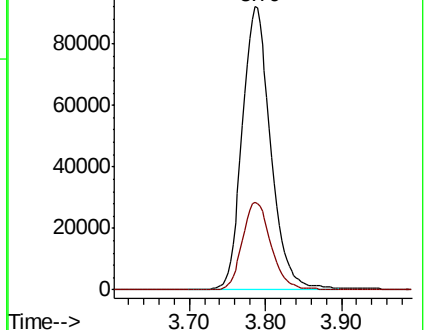
43 100

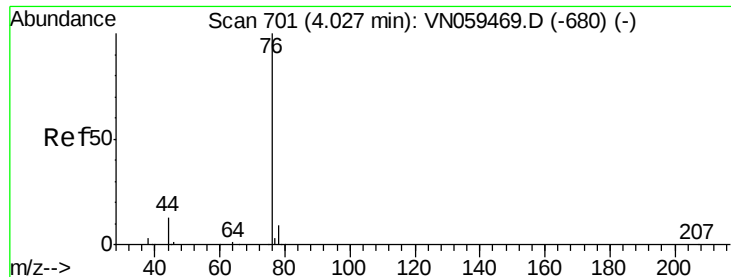
58 31.1 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN059469.D (-596) (-)

Ion 58.00 (57.70 to 58.70): VN059469.D (-596) (-)





#17

Carbon Disulfide

Concen: 18.998 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

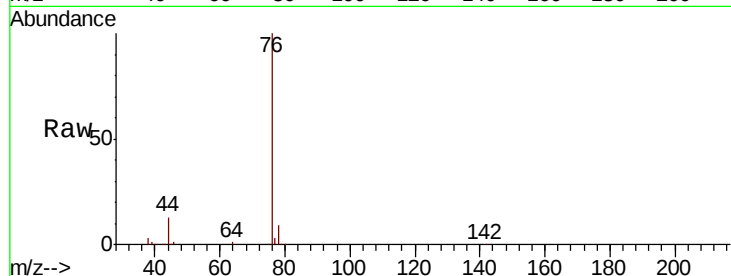
ClientSampleId :

Tot Ion: 76 Resp: 225171

Ion Ratio Lower Upper

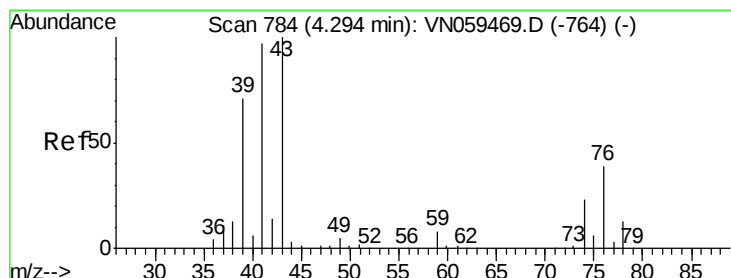
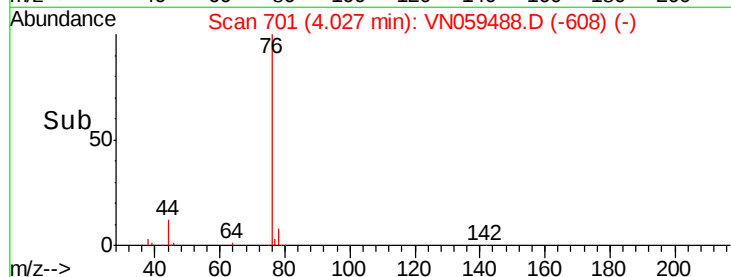
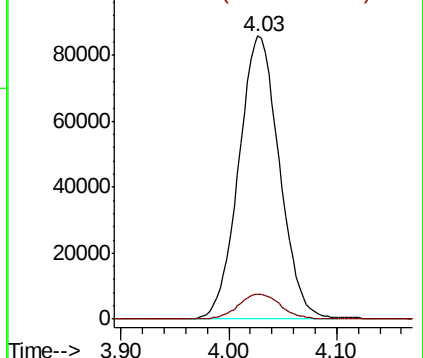
76 100

78 8.9 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 20.767 ug/l

RT: 4.29 min Scan# 783

Delta R.T. -0.00 min

Lab File: VN059488.D

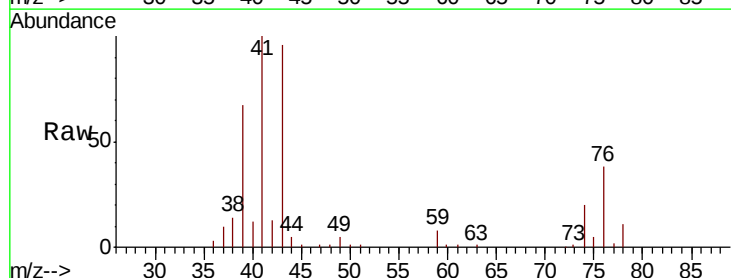
Acq: 4 Dec 2019 16:10

Tgt Ion: 43 Resp: 116309

Ion Ratio Lower Upper

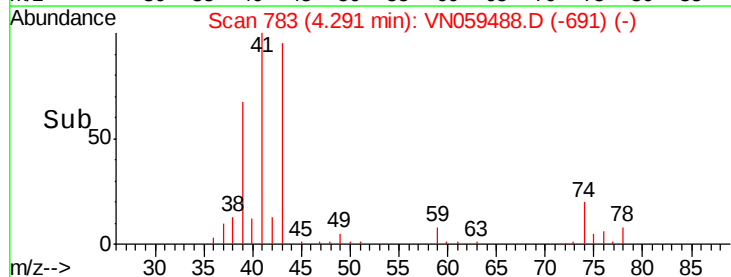
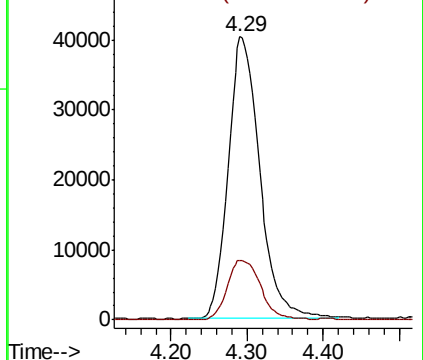
43 100

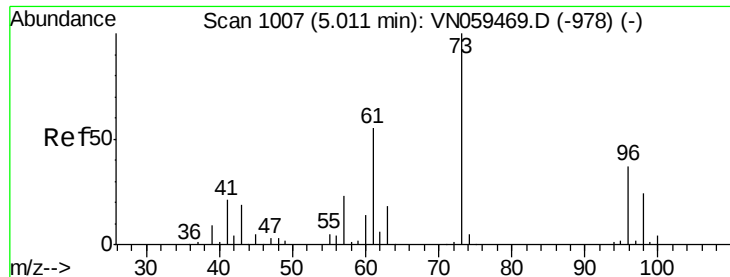
74 22.4 18.3 27.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

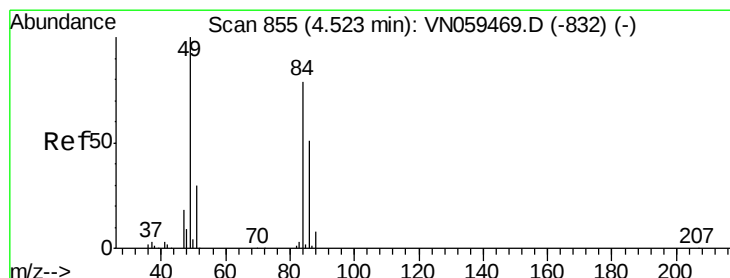
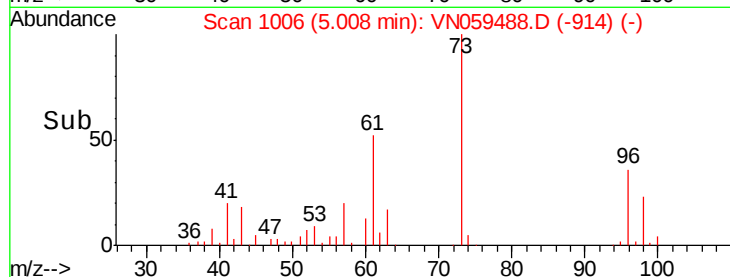
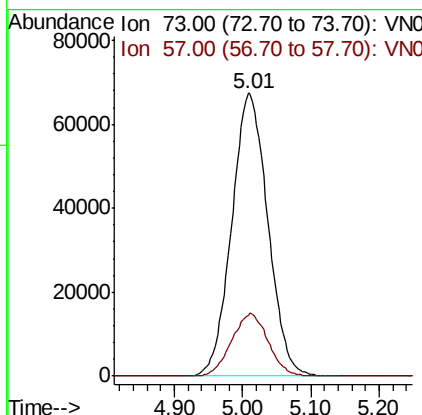
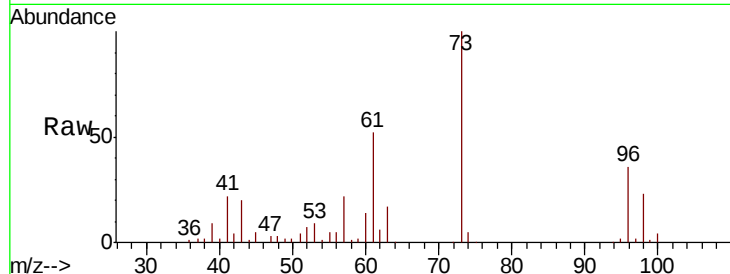




#19
Methvl tert-butvl Ether
Concen: 20.924 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

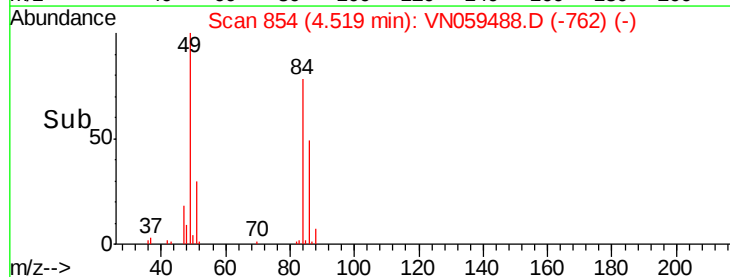
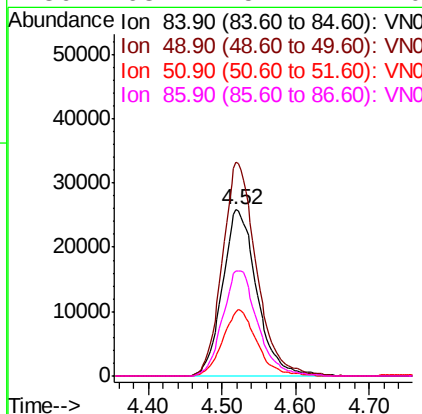
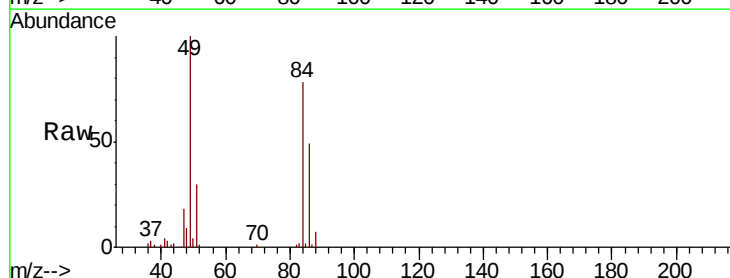
Instrument :
MSVOA_N
ClientSampled :

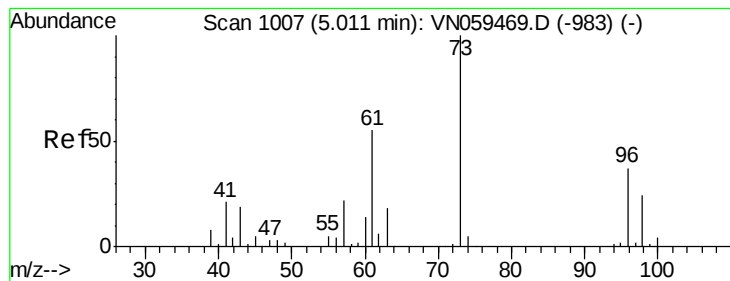
Tot Ion: 73 Resp: 247711
Ion Ratio Lower Upper
73 100
57 21.5 18.0 27.0



#20
Methylene Chloride
Concen: 20.711 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion: 84 Resp: 83910
Ion Ratio Lower Upper
84 100
49 128.5 101.1 151.7
51 38.8 30.7 46.1
86 63.4 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 19.959 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampled :

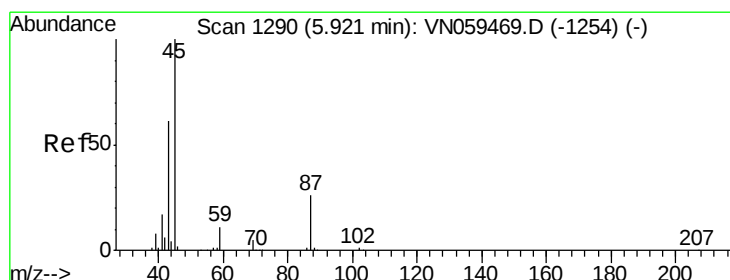
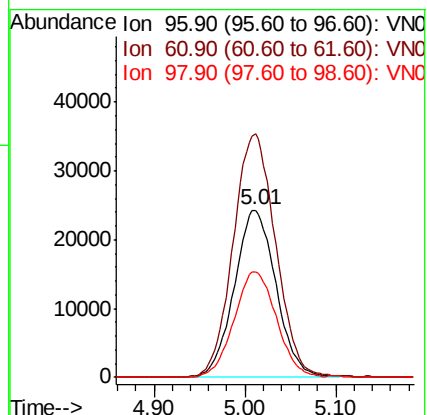
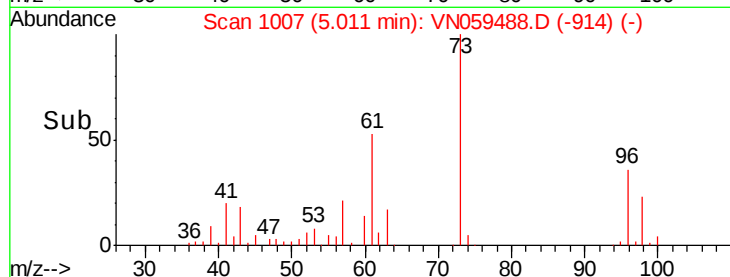
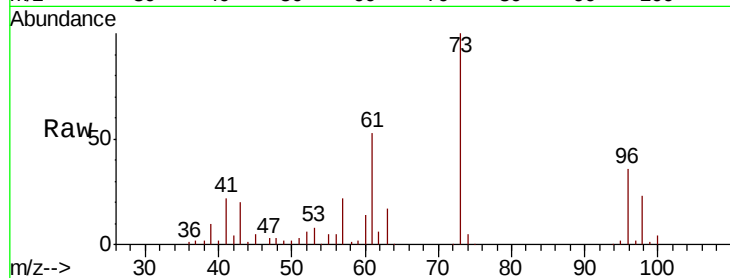
Tot Ion: 96 Resp: 77573

Ion Ratio Lower Upper

96 100

61 144.9 118.9 178.3

98 62.9 51.6 77.4



#22

Diisopropyl ether

Concen: 21.130 ug/l

RT: 5.92 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Tgt Ion: 45 Resp: 269065

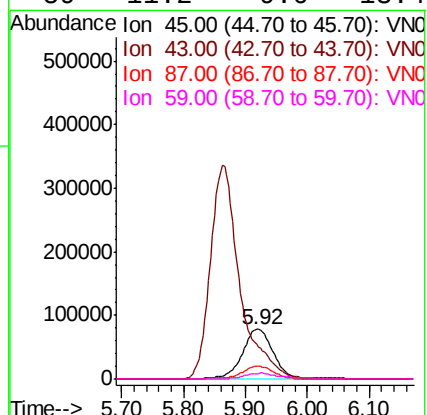
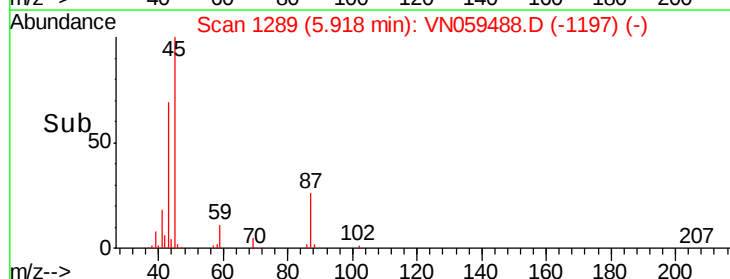
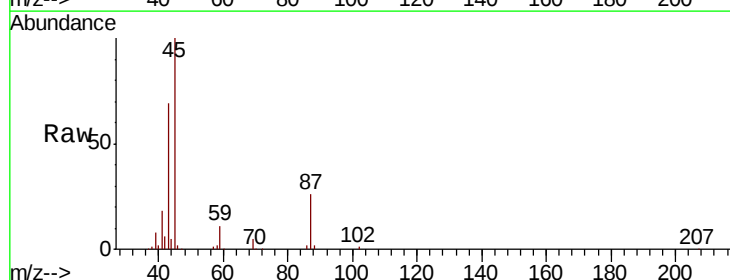
Ion Ratio Lower Upper

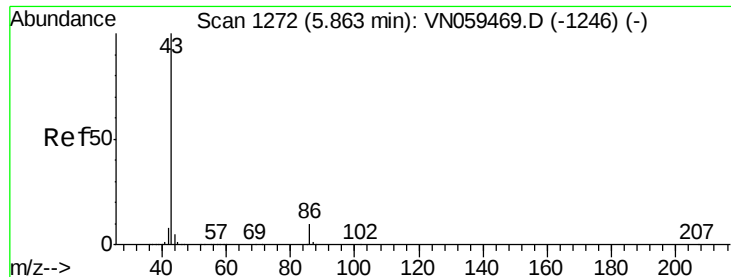
45 100

43 67.7 49.1 73.7

87 26.1 21.6 32.4

59 11.2 9.0 13.4





#23

Vinyl Acetate

Concen: 109.341 ug/l

RT: 5.86 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

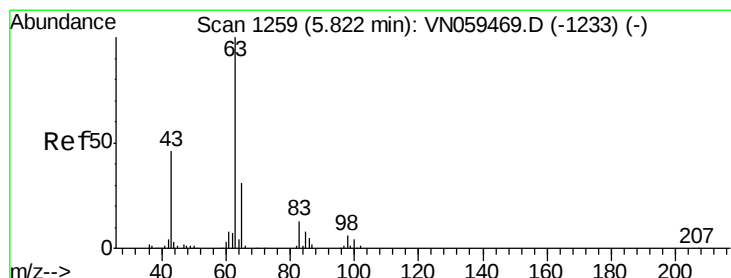
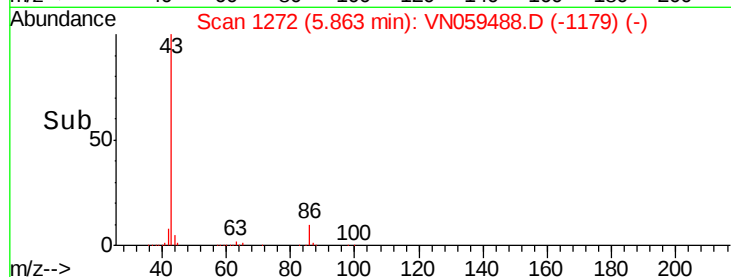
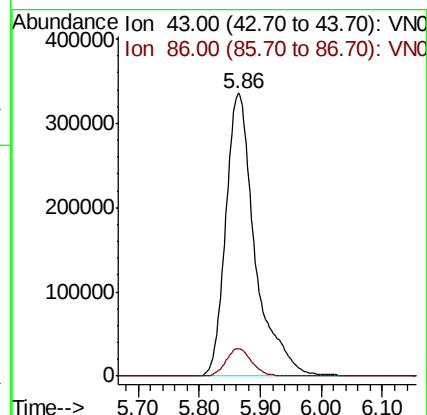
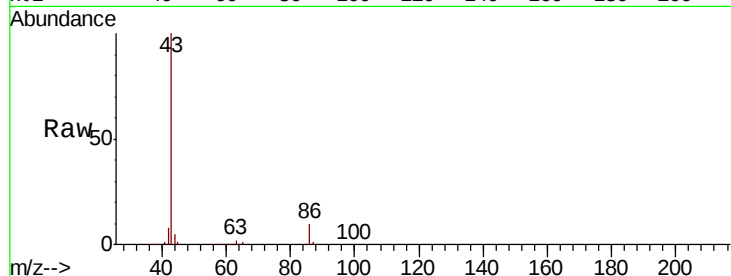
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1117253

Ion Ratio Lower Upper

43 100

86 9.8 8.0 12.0



#24

1,1-Dichloroethane

Concen: 20.838 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

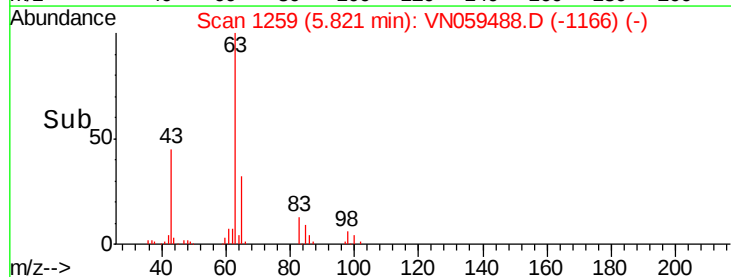
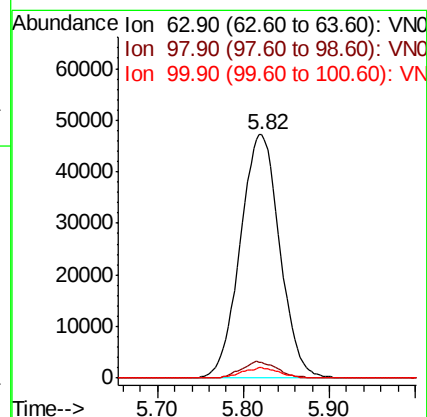
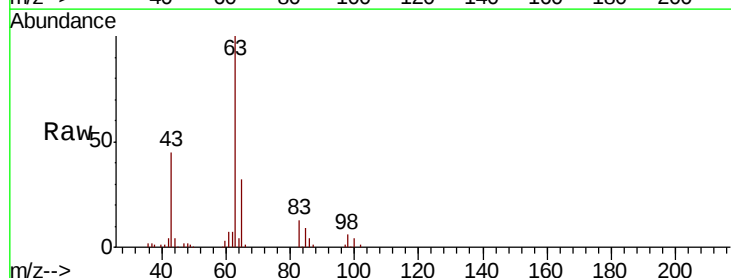
Tgt Ion: 63 Resp: 150738

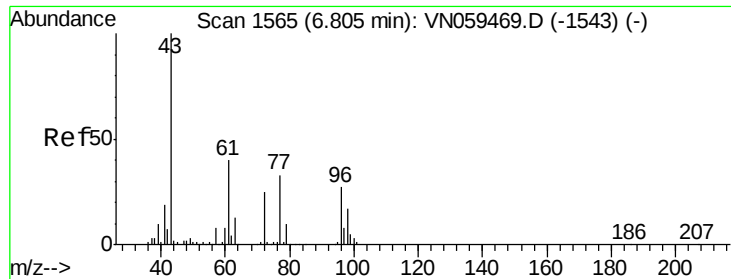
Ion Ratio Lower Upper

63 100

98 6.5 3.2 9.6

100 4.3 2.0 6.0

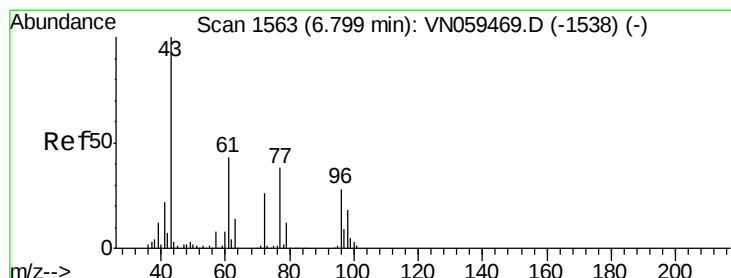
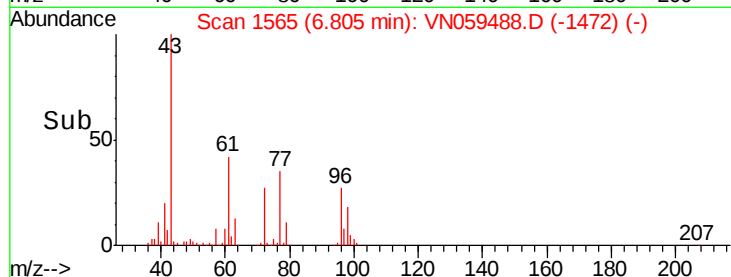
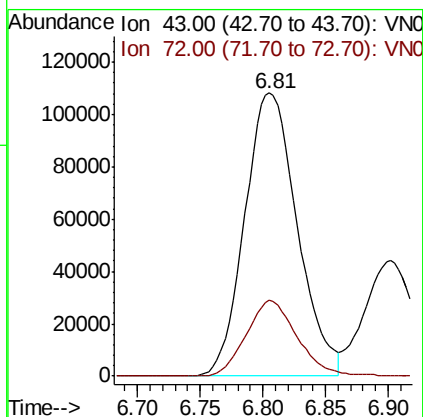
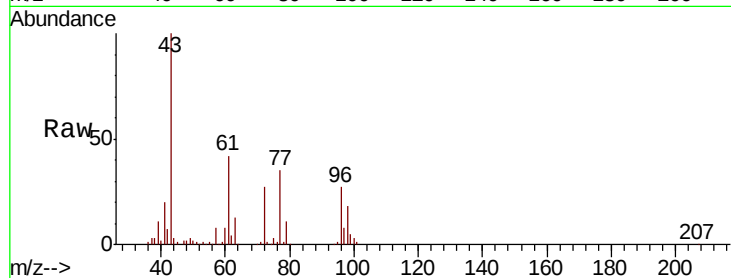




#25
2-Butanone
Concen: 99.373 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

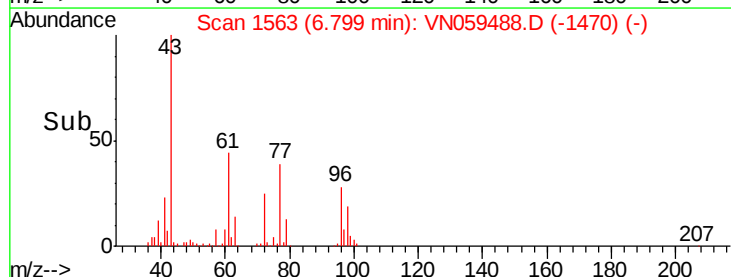
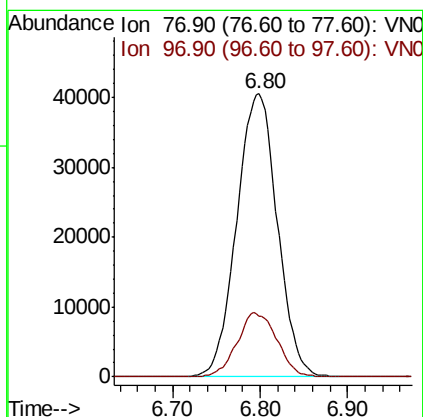
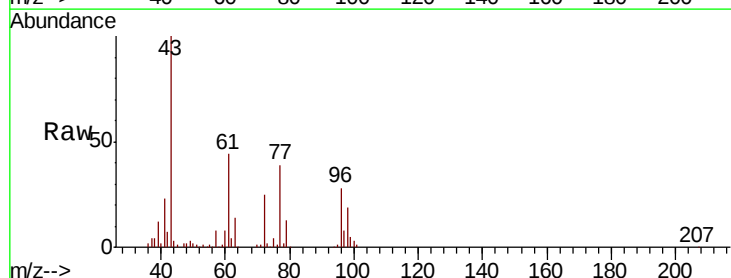
Instrument :
MSVOA_N
ClientSampleId :

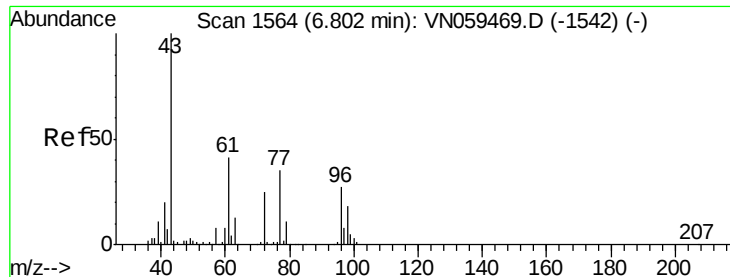
Tot Ion: 43 Resp: 314235
Ion Ratio Lower Upper
43 100
72 26.8 20.2 30.2



#26
2,2-Dichloropropane
Concen: 20.863 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion: 77 Resp: 130531
Ion Ratio Lower Upper
77 100
97 22.2 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 20.530 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :
MSVOA_N
ClientSampled :

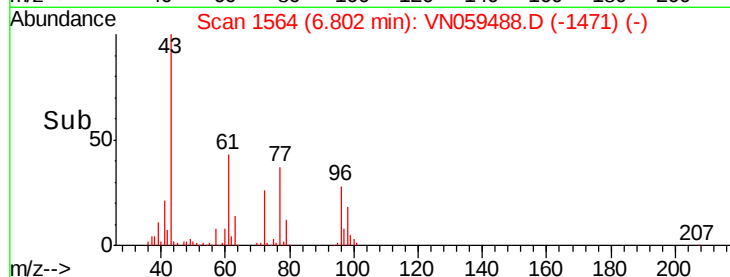
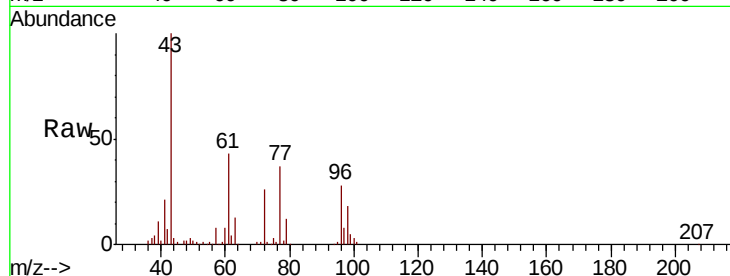
Tot Ion: 96 Resp: 88618

Ion Ratio Lower Upper

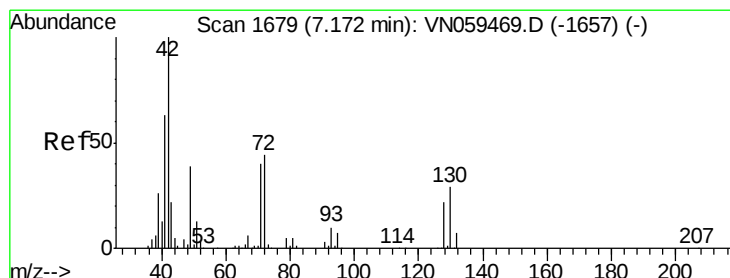
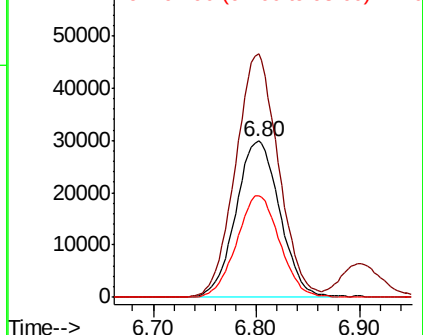
96 100

61 152.2 0.0 307.4

98 63.8 0.0 129.2



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: 22.107 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

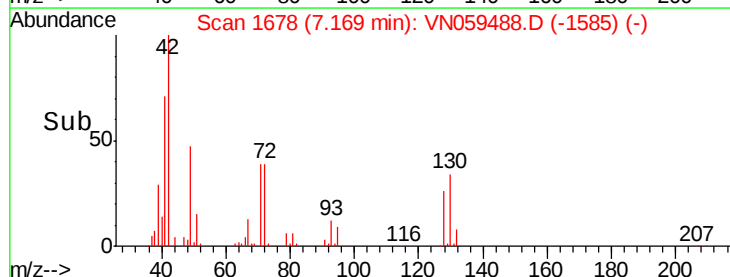
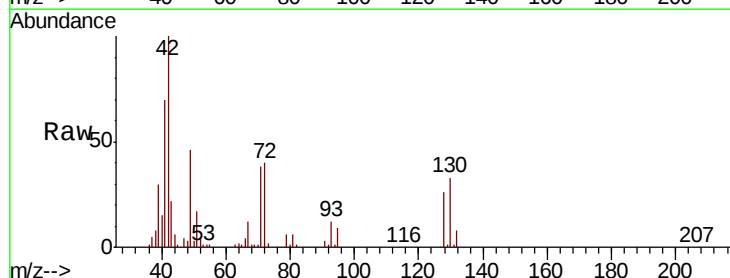
Tgt Ion: 49 Resp: 61331

Ion Ratio Lower Upper

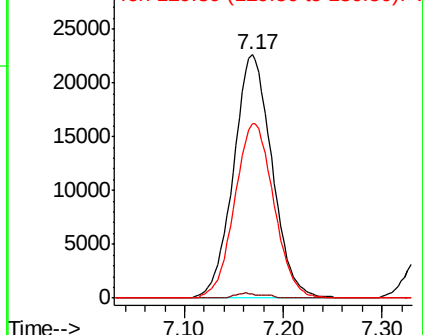
49 100

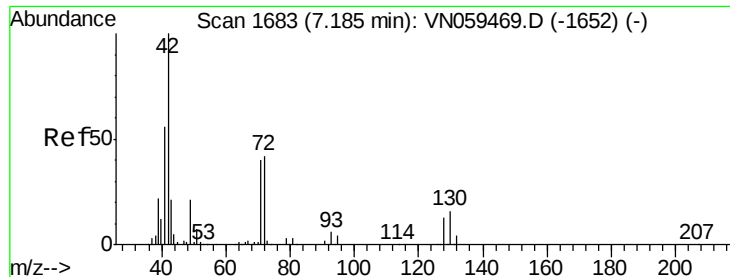
129 1.1 0.0 3.2

130 72.7 58.4 87.6



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: 103.141 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampled :

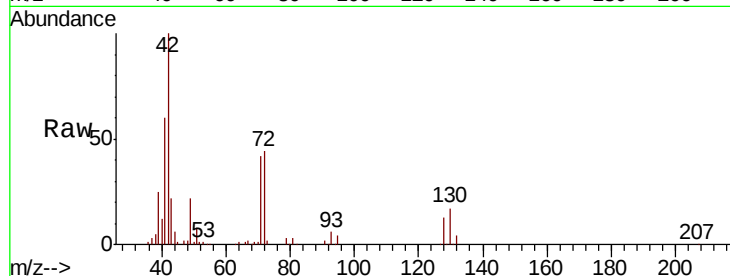
Tot Ion: 42 Resp: 205082

Ion Ratio Lower Upper

42 100

72 41.8 34.2 51.2

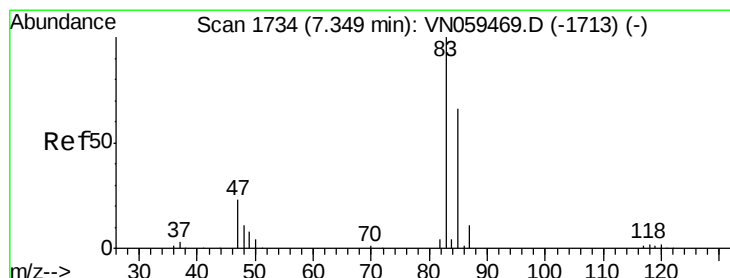
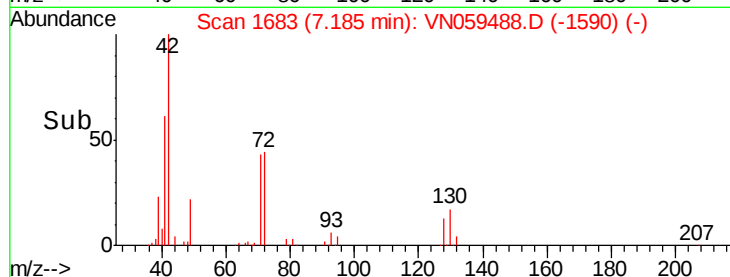
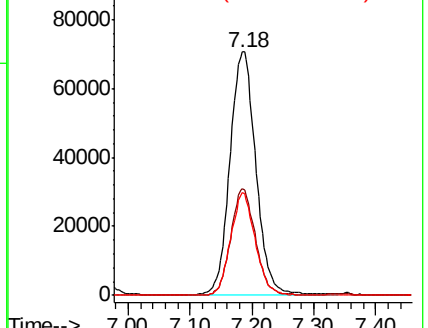
71 40.1 32.0 48.0



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 25.322 ug/l

RT: 7.35 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VN059488.D

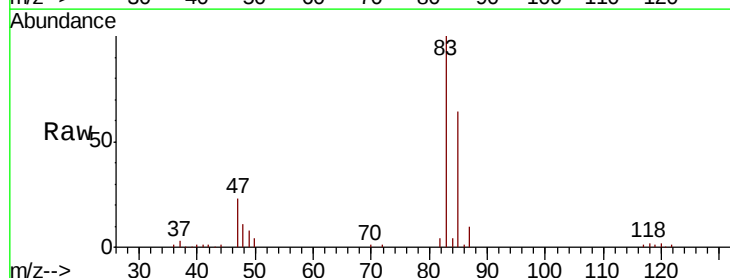
Acq: 4 Dec 2019 16:10

Tgt Ion: 83 Resp: 176861

Ion Ratio Lower Upper

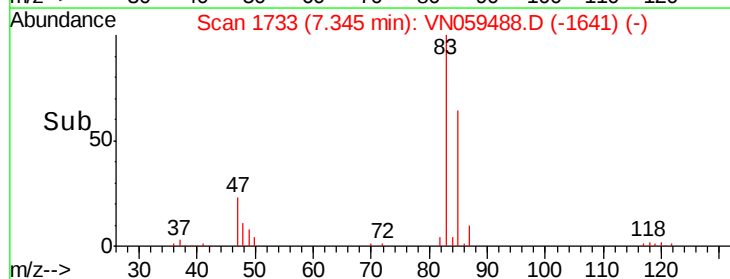
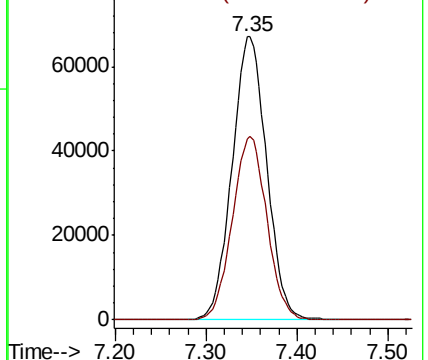
83 100

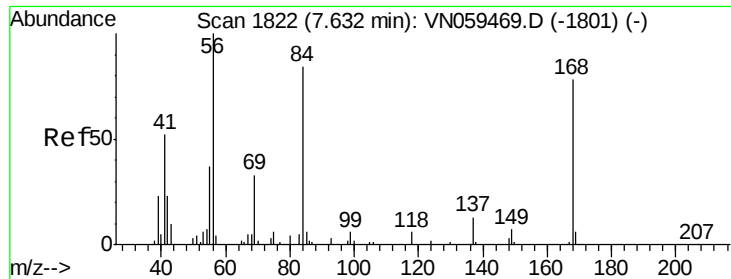
85 63.9 52.4 78.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

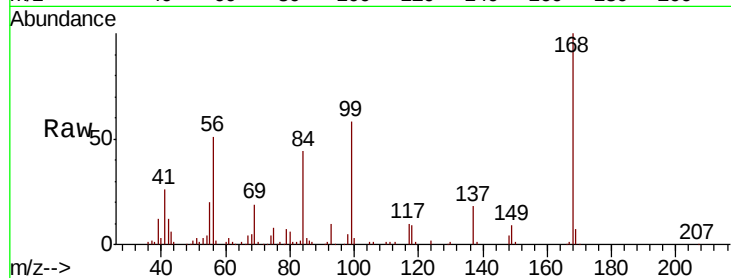




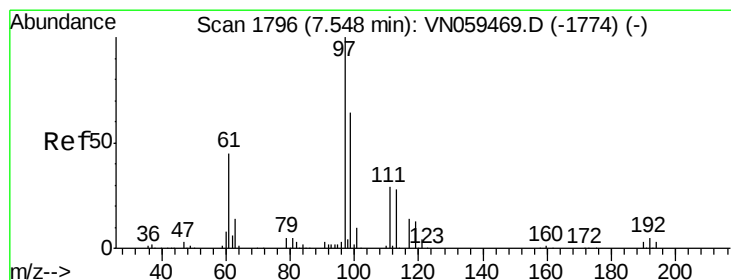
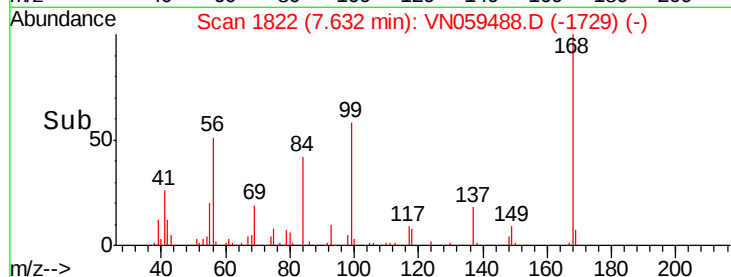
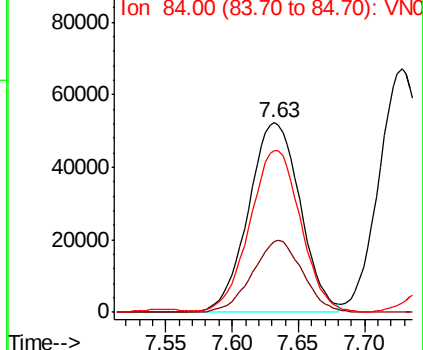
#31
Cyclohexane
Concen: 20.313 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 142375
Ion Ratio Lower Upper
56 100
69 37.5 26.2 39.4
84 84.6 66.8 100.2

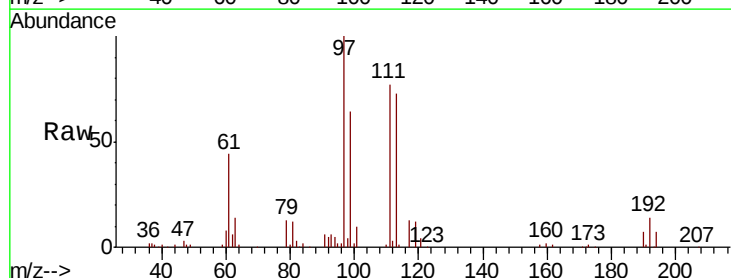


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

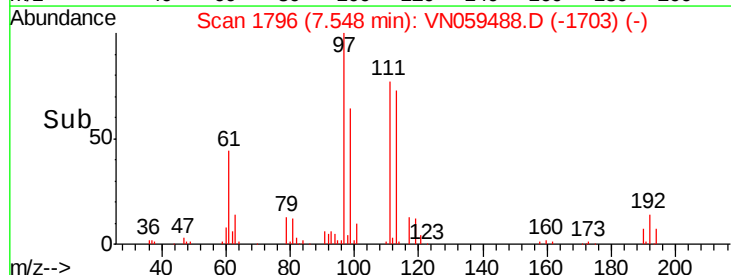
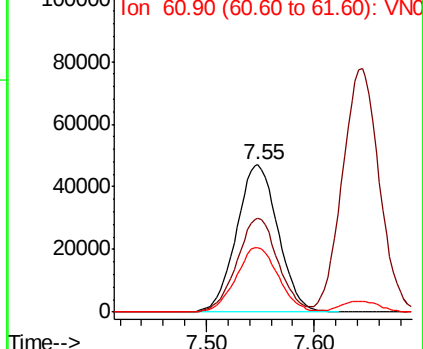


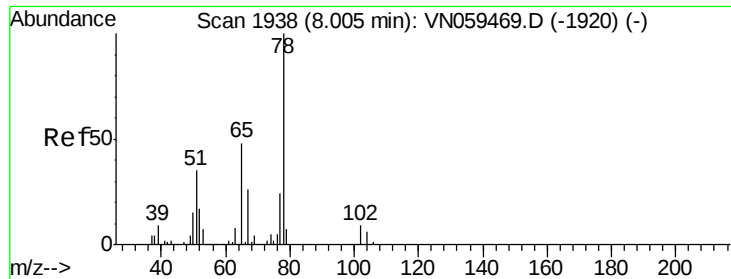
#32
1,1,1-Trichloroethane
Concen: 20.763 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion: 97 Resp: 126048
Ion Ratio Lower Upper
97 100
99 62.9 51.7 77.5
61 44.7 35.4 53.0



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: 52.879 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

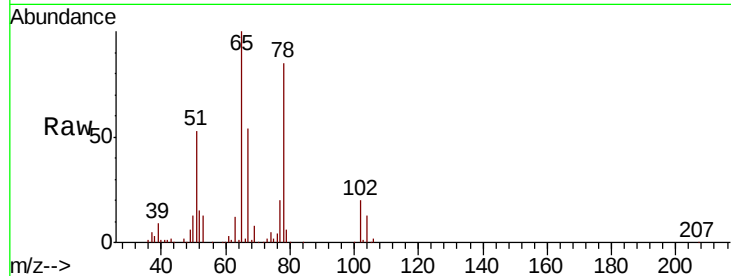
ClientSampleId :

Tot Ion: 65 Resp: 219996

Ion Ratio Lower Upper

65 100

67 54.3 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN059469.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN059469.D (-1920) (-)

8.00

100000

80000

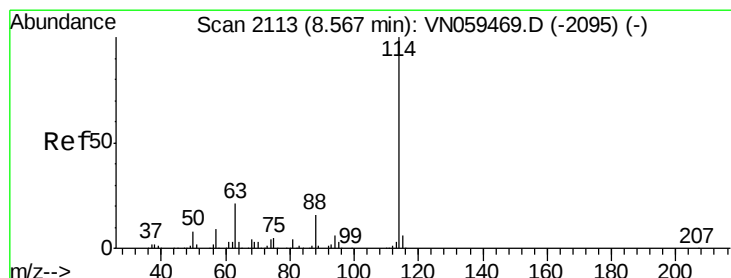
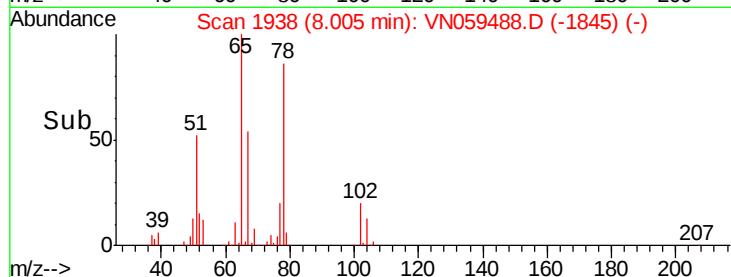
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

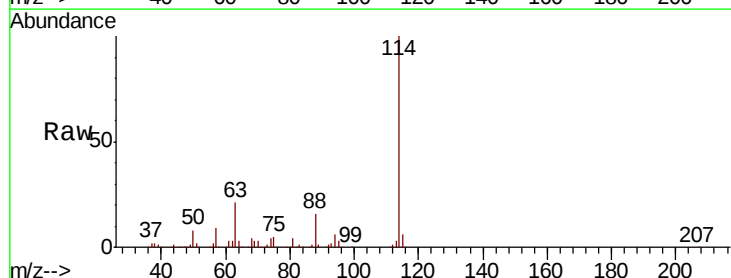
Tgt Ion: 114 Resp: 529987

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.4

88 15.9 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): VN059469.D (-2095) (-)

Ion 63.00 (62.70 to 63.70): VN059469.D (-2095) (-)

Ion 87.90 (87.60 to 88.60): VN059469.D (-2095) (-)

8.57

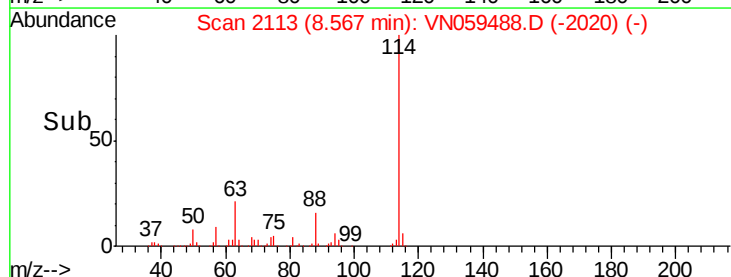
300000

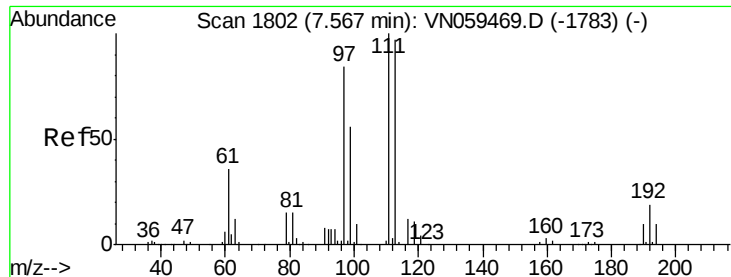
200000

100000

0

Time-->

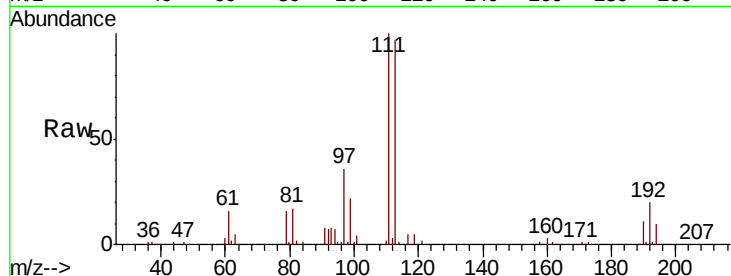




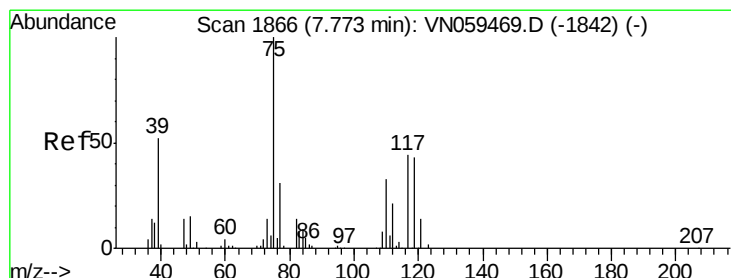
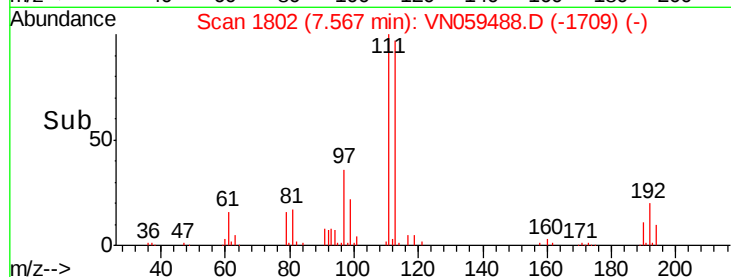
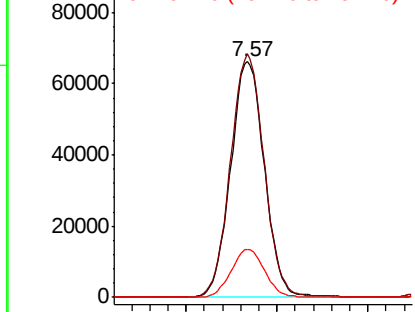
#35
 Dibromofluoromethane
 Concen: 51.793 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059488.D
 Acq: 4 Dec 2019 16:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 170963
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.5 123.7
 192 20.1 16.1 24.1

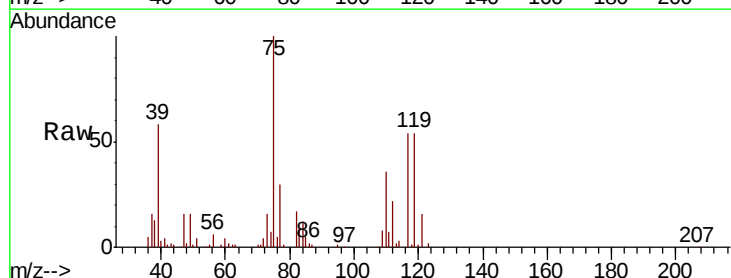


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

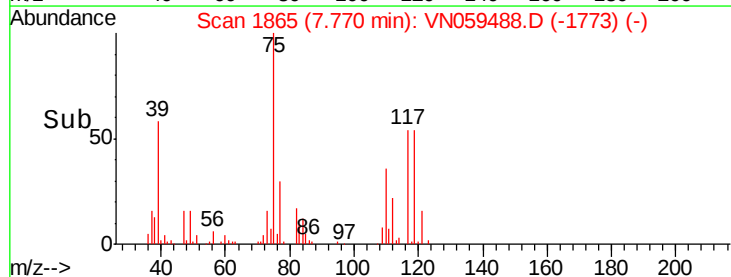
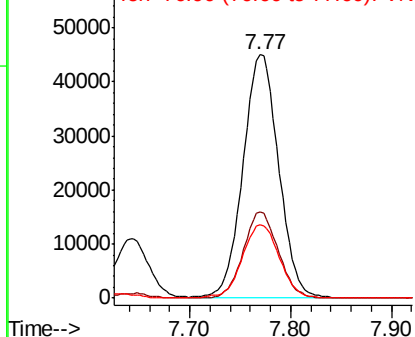


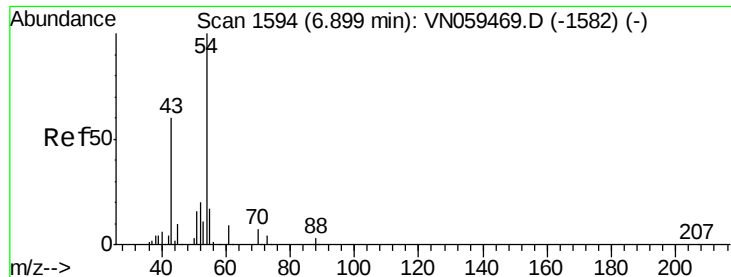
#36
 1,1-Dichloropropene
 Concen: 20.048 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. -0.00 min
 Lab File: VN059488.D
 Acq: 4 Dec 2019 16:10

Tgt Ion: 75 Resp: 110568
 Ion Ratio Lower Upper
 75 100
 110 34.4 16.9 50.7
 77 31.4 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

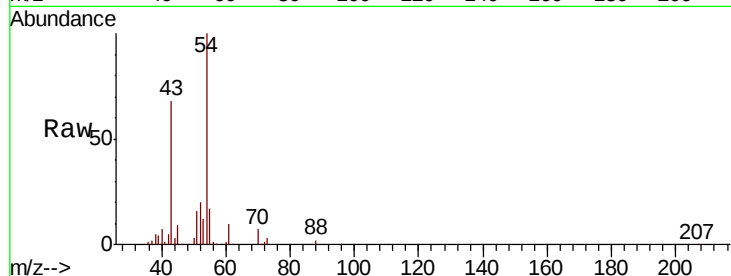




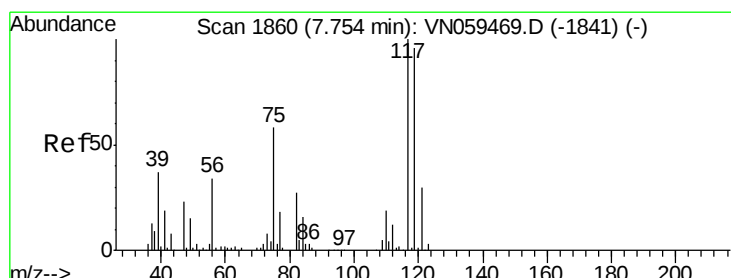
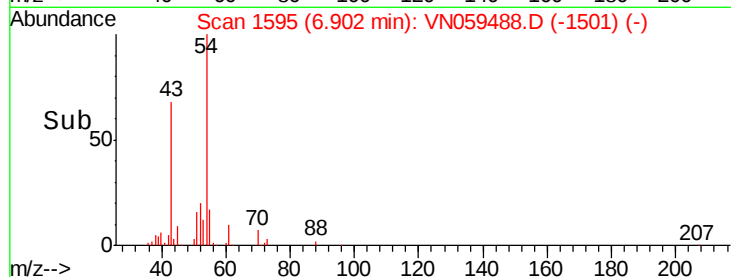
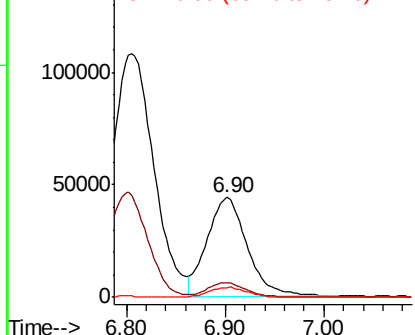
#37
Ethyl Acetate
Concen: 20.327 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 125225
Ion Ratio Lower Upper
43 100
61 13.9 11.3 16.9
70 9.9 8.3 12.5

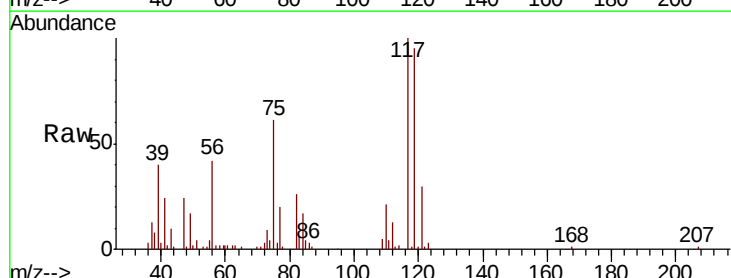


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

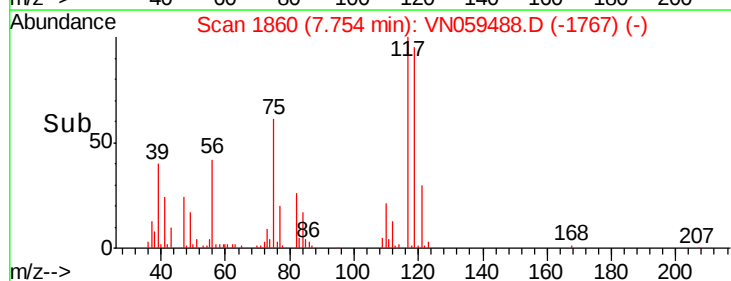
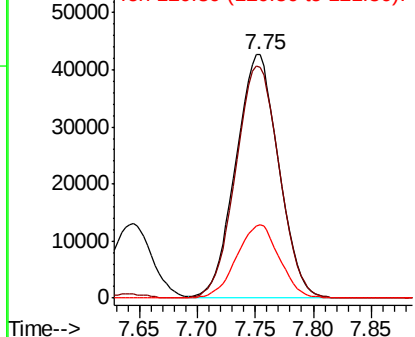


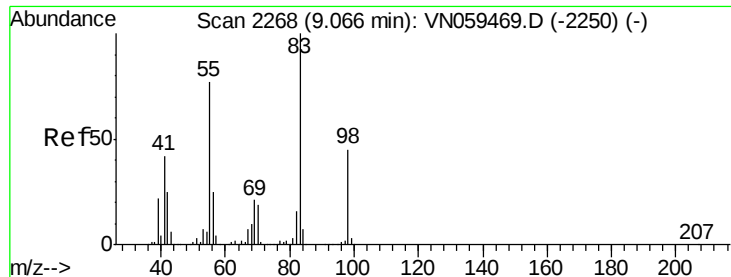
#38
Carbon Tetrachloride
Concen: 20.721 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion: 117 Resp: 109914
Ion Ratio Lower Upper
117 100
119 94.9 76.6 114.8
121 30.3 24.0 36.0



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

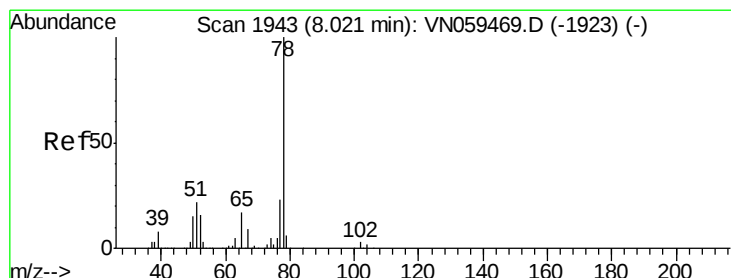
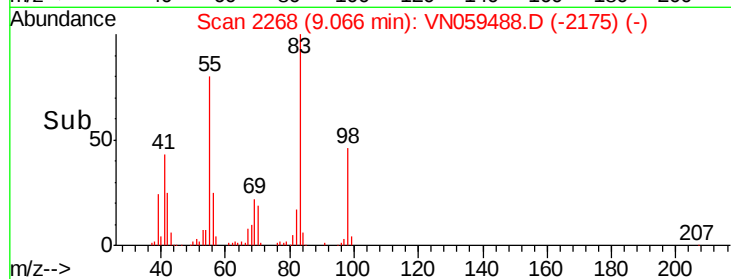
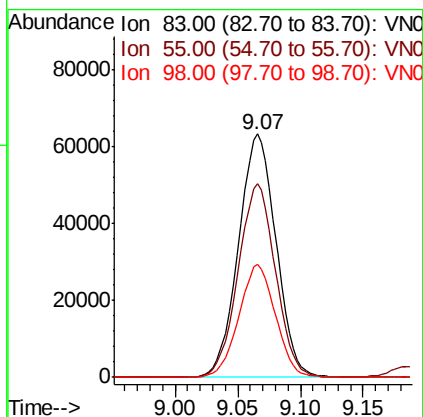
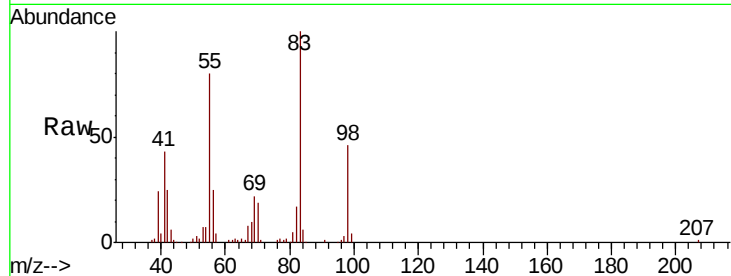




#39
Methvlcvclohexane
Concen: 19.872 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

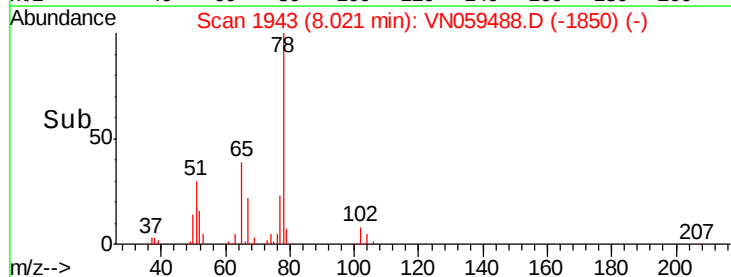
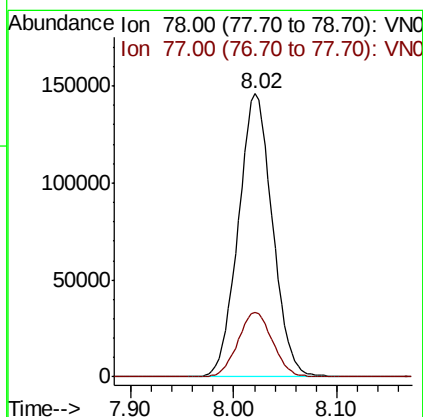
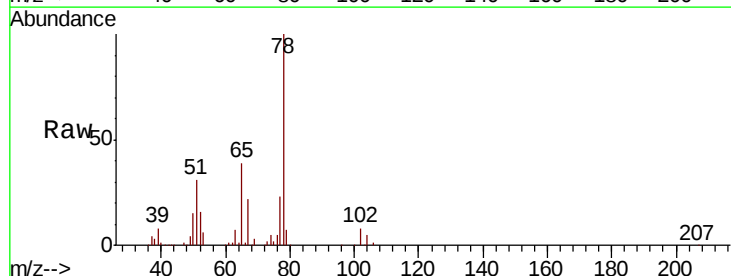
Instrument :
MSVOA_N
ClientSampleId :

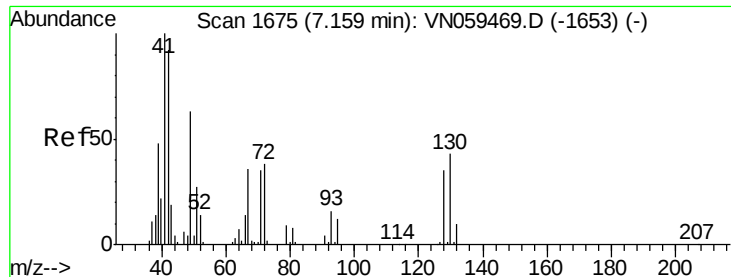
Tot Ion: 83 Resp: 131891
Ion Ratio Lower Upper
83 100
55 79.7 61.8 92.6
98 46.4 36.2 54.2



#40
Benzene
Concen: 20.801 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion: 78 Resp: 335936
Ion Ratio Lower Upper
78 100
77 22.8 18.2 27.2

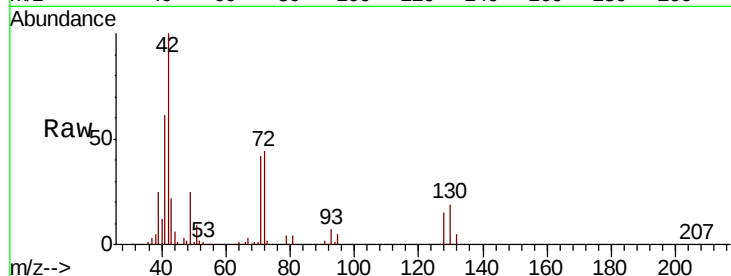




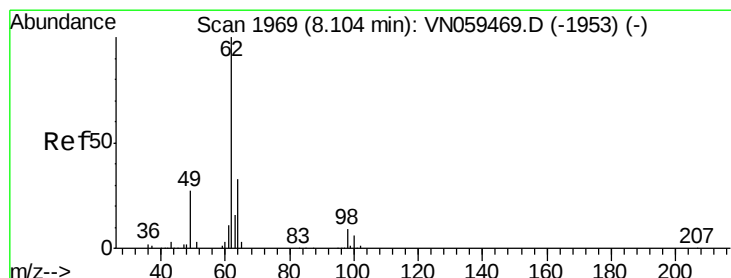
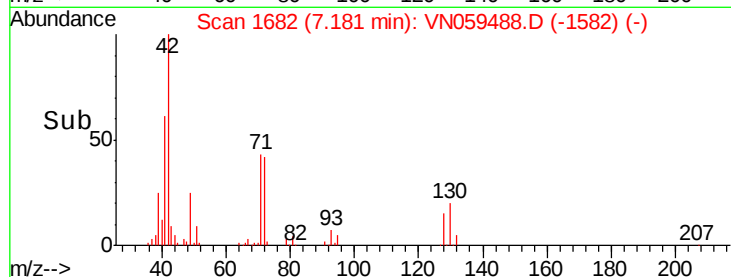
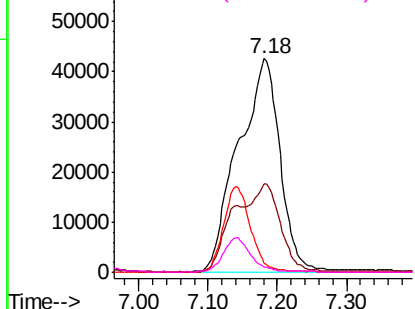
#41
Methacrylonitrile
Concen: 71.445 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.02 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	41	Resp:	178381
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

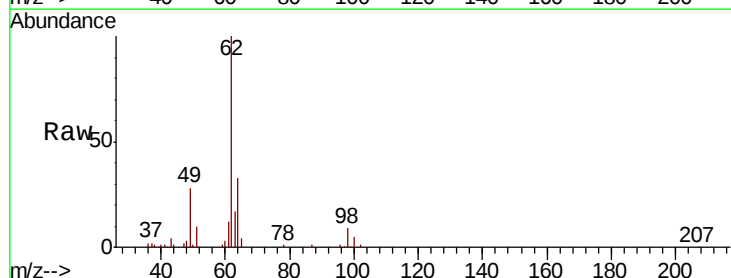


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

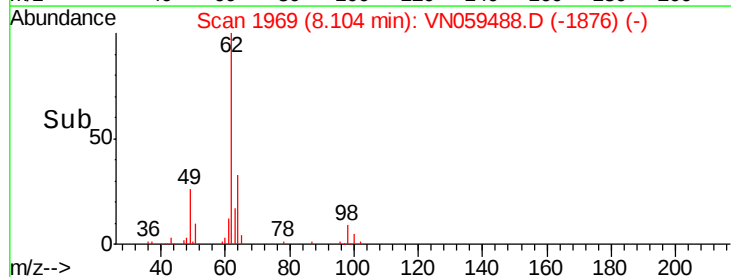
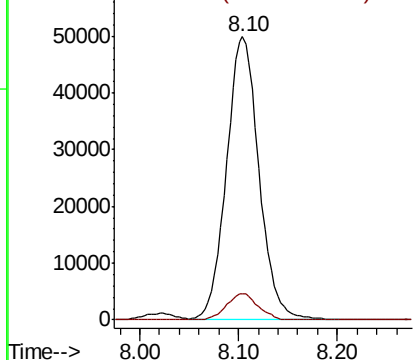


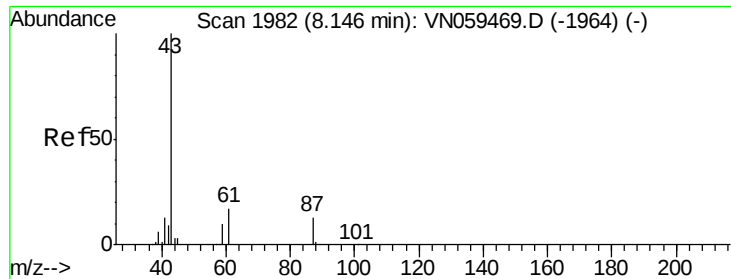
#42
1,2-Dichloroethane
Concen: 20.922 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion:	62	Resp:	114782
Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	17.8



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 20.858 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampled :

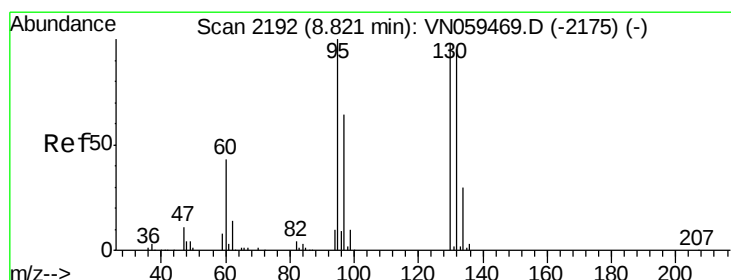
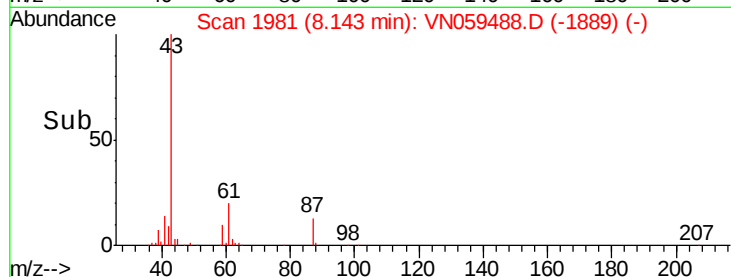
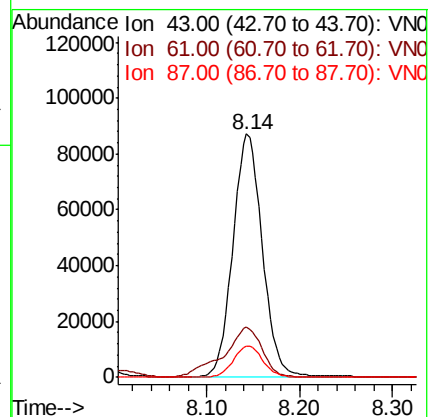
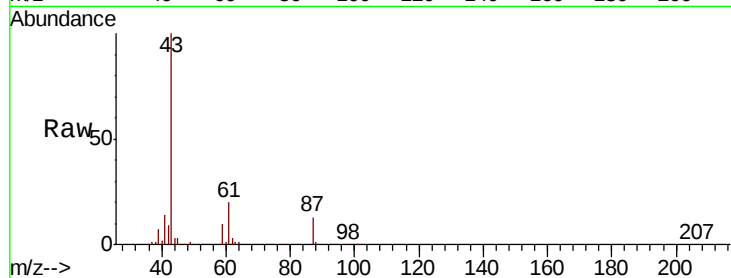
Tot Ion: 43 Resp: 191114

Ion Ratio Lower Upper

43 100

61 27.2 21.0 31.6

87 13.0 10.4 15.6



#44

Trichloroethene

Concen: 20.028 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN059488.D

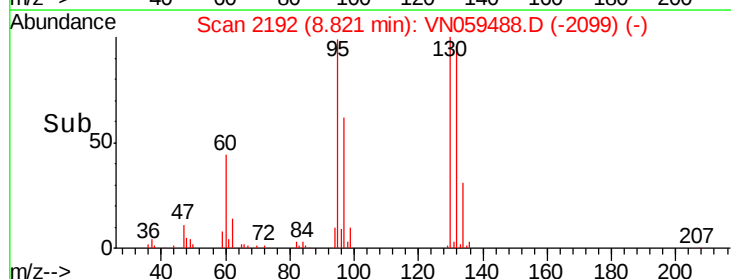
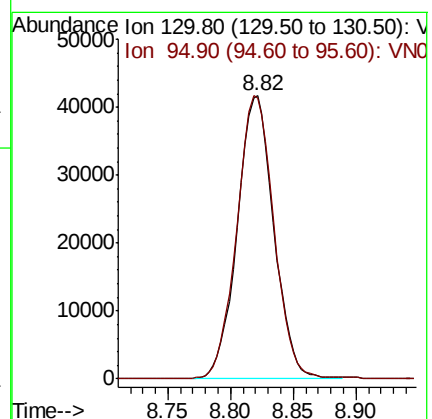
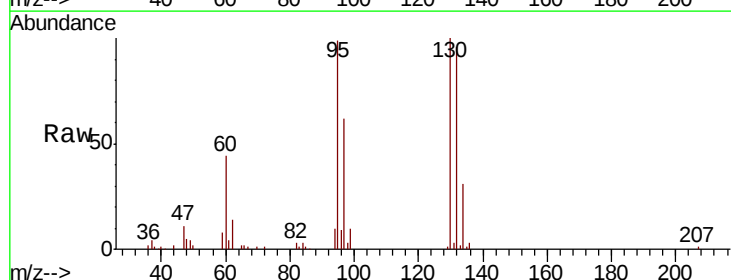
Acq: 4 Dec 2019 16:10

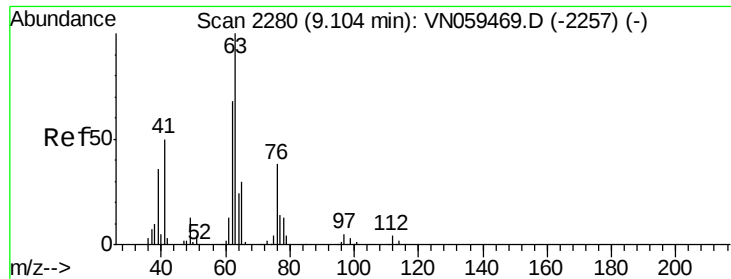
Tgt Ion: 130 Resp: 84527

Ion Ratio Lower Upper

130 100

95 99.3 0.0 203.6





#45

1,2-Dichloropropane

Concen: 20.639 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

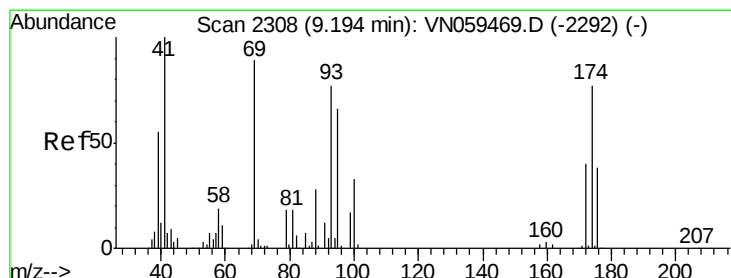
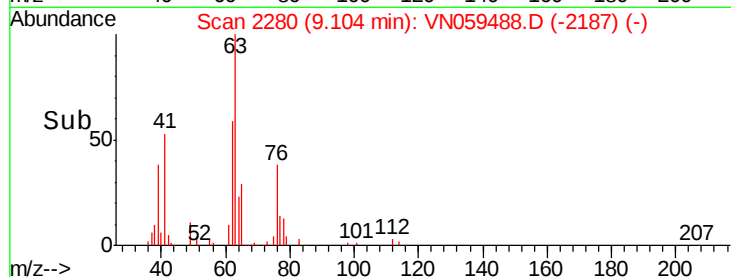
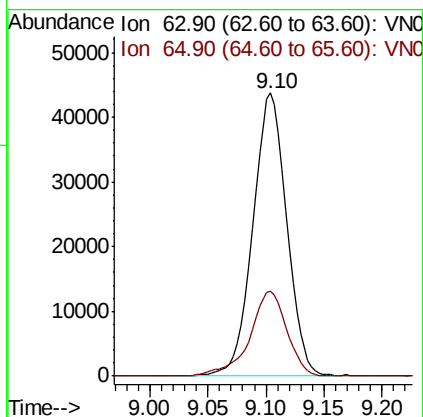
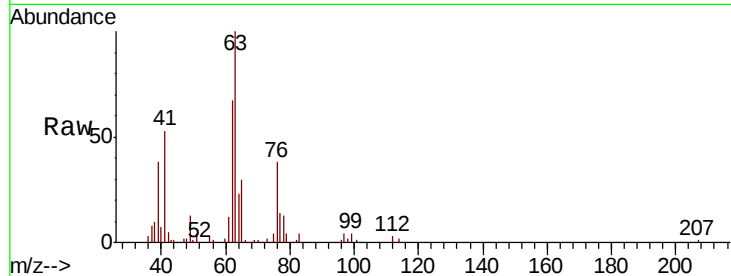
ClientSampleId :

Tot Ion: 63 Resp: 89054

Ion Ratio Lower Upper

63 100

65 29.9 24.4 36.6



#46

Dibromomethane

Concen: 20.581 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

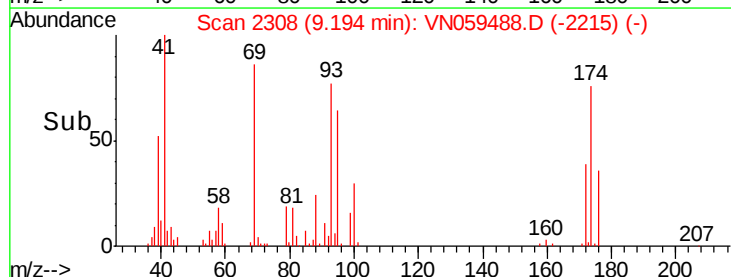
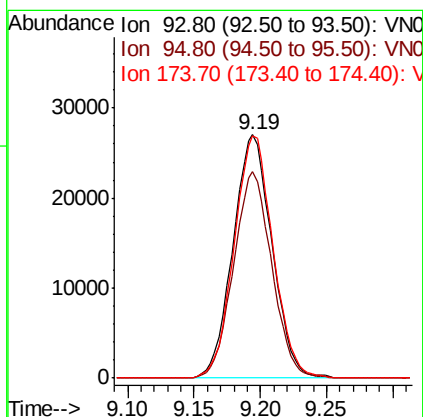
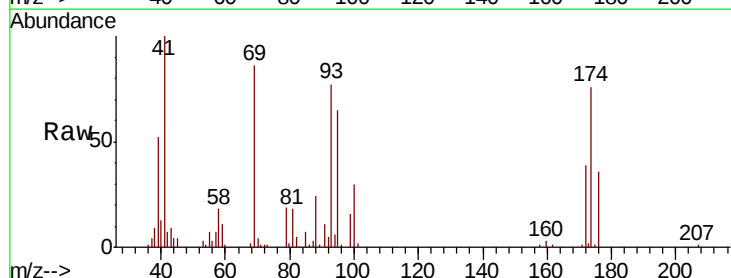
Tgt Ion: 93 Resp: 55289

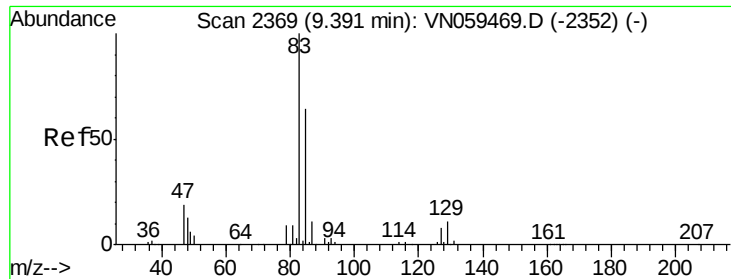
Ion Ratio Lower Upper

93 100

95 82.8 67.0 100.6

174 98.8 79.6 119.4





#47

Bromodichloromethane

Concen: 21.778 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampleId :

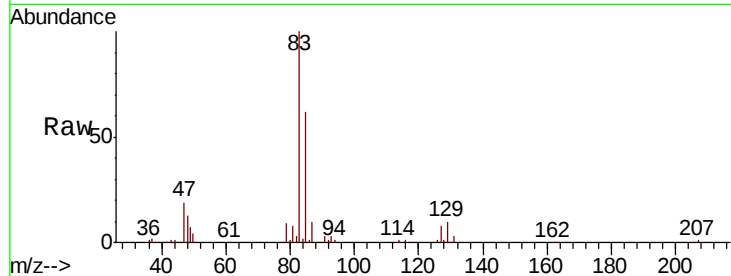
Tot Ion: 83 Resp: 117305

Ion Ratio Lower Upper

83 100

85 61.6 51.0 76.6

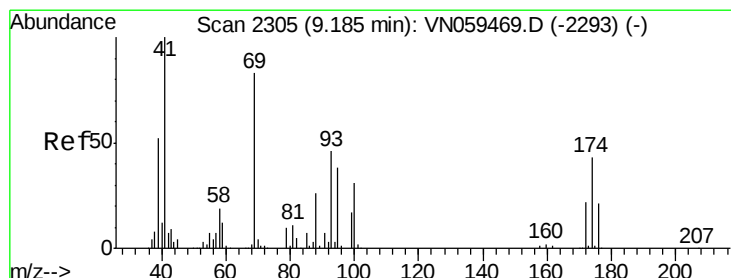
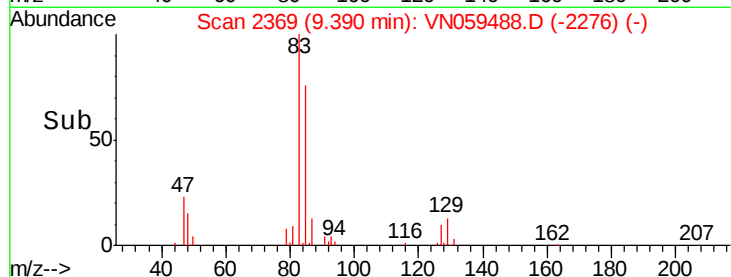
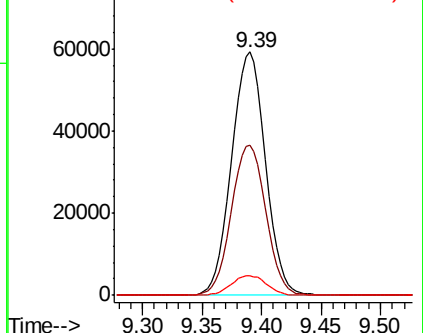
127 8.1 6.6 9.8



Abundance Ion 82.90 (82.60 to 83.60): VN059469.D (-2352) (-)

Ion 84.90 (84.60 to 85.60): VN059469.D (-2352) (-)

Ion 126.80 (126.50 to 127.50): VN059469.D (-2352) (-)



#48

Methyl methacrylate

Concen: 19.966 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

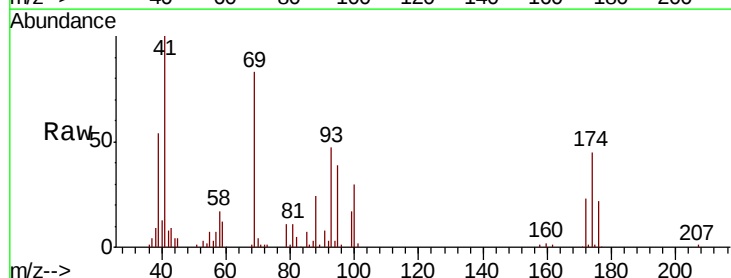
Tgt Ion: 41 Resp: 82535

Ion Ratio Lower Upper

41 100

69 87.8 68.6 103.0

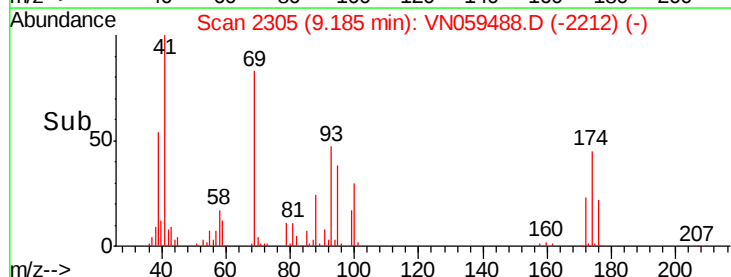
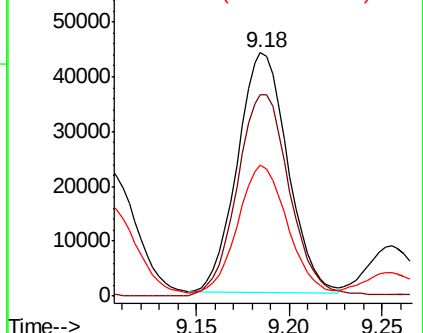
39 54.7 43.2 64.8

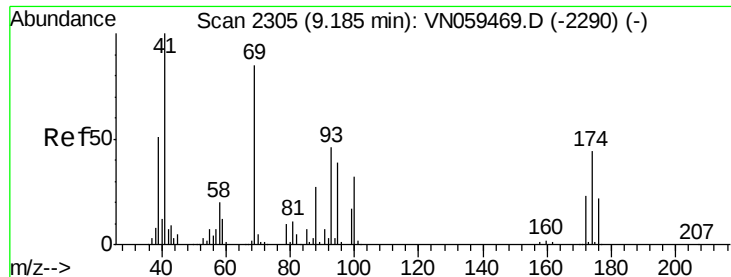


Abundance Ion 41.00 (40.70 to 41.70): VN059469.D (-2293) (-)

Ion 69.00 (68.70 to 69.70): VN059469.D (-2293) (-)

Ion 39.00 (38.70 to 39.70): VN059469.D (-2293) (-)

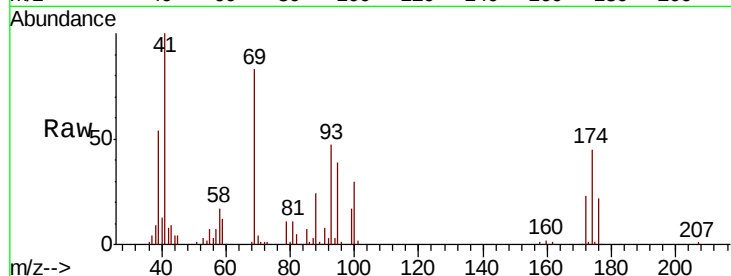




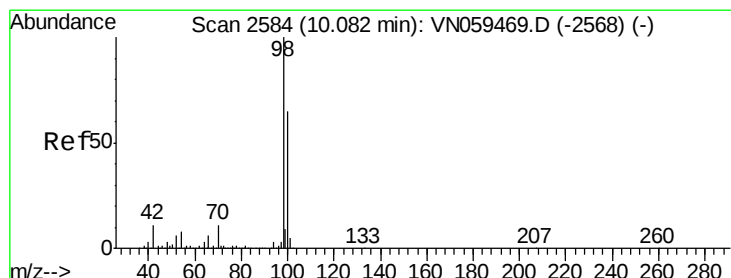
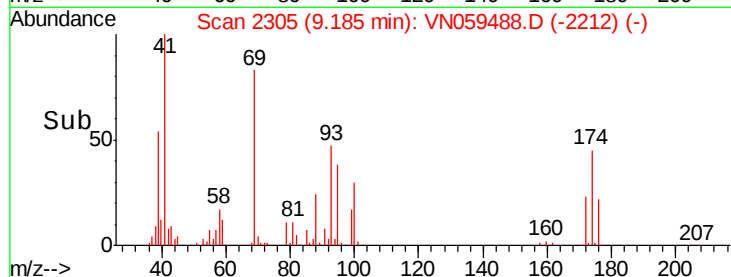
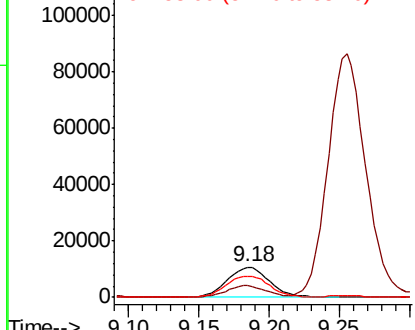
#49
1,4-Dioxane
Concen: 359.787 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 22505
Ion Ratio Lower Upper
88 100
43 37.2 27.1 40.7
58 73.7 57.8 86.6

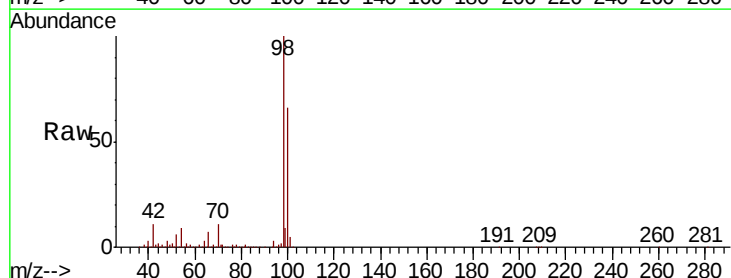


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

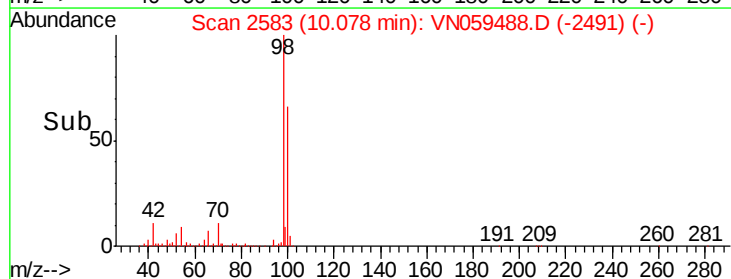
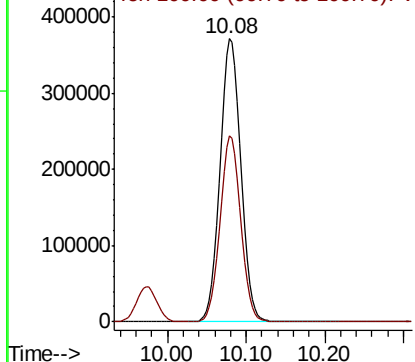


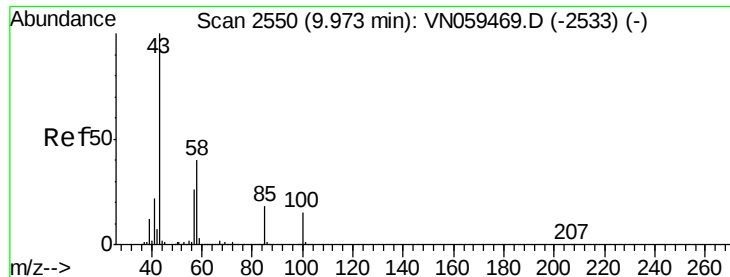
#50
Toluene-d8
Concen: 51.948 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion: 98 Resp: 676092
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1



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: 109.053 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

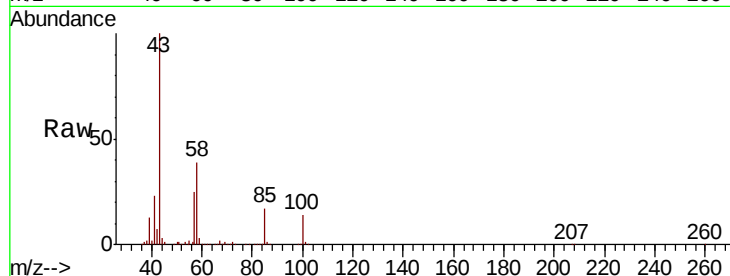
ClientSampleId :

Tot Ion: 43 Resp: 593120

Ion Ratio Lower Upper

43 100

58 39.2 32.1 48.1



Abundance Ion 43.00 (42.70 to 43.70): VN059469.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN059469.D (-2533) (-)

9.97

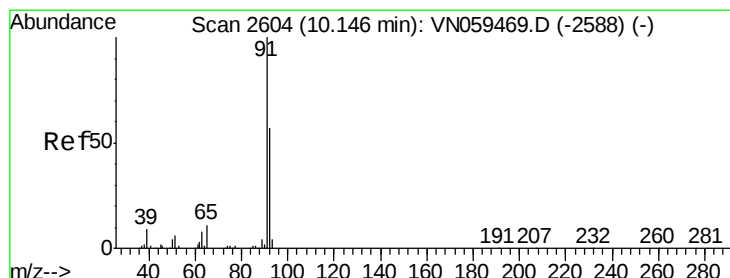
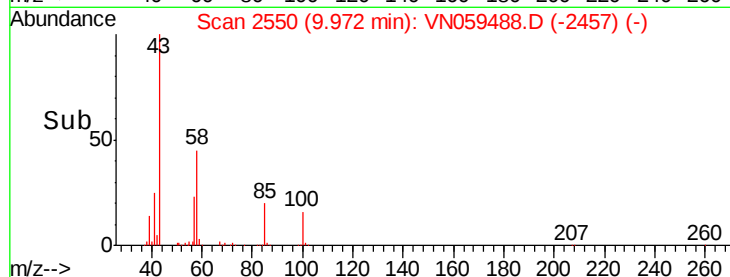
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.826 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN059488.D

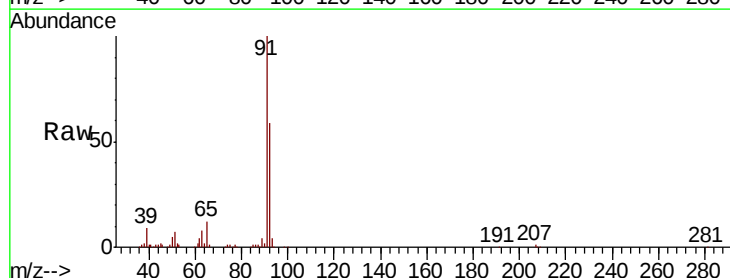
Acq: 4 Dec 2019 16:10

Tgt Ion: 92 Resp: 203422

Ion Ratio Lower Upper

92 100

91 172.1 138.6 208.0



Abundance Ion 92.00 (91.70 to 92.70): VN059469.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN059469.D (-2588) (-)

10.15

200000

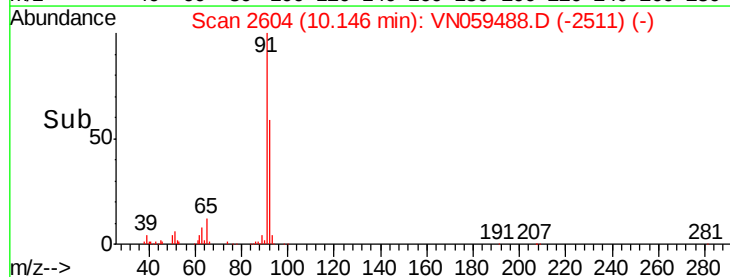
150000

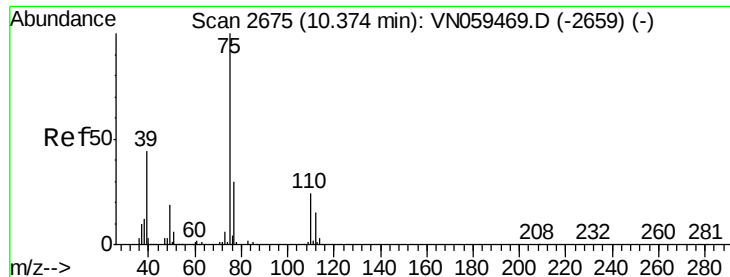
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.316 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

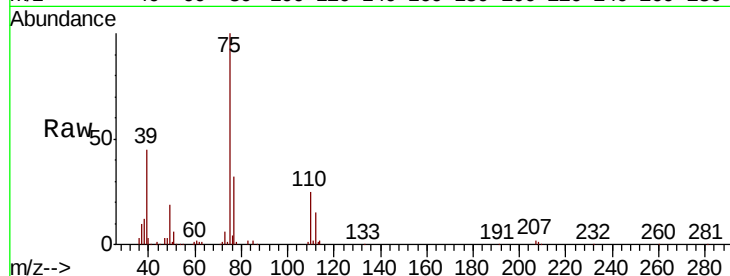
ClientSampleId :

Tot Ion: 75 Resp: 128767

Ion Ratio Lower Upper

75 100

77 31.2 25.0 37.6



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.37

80000

60000

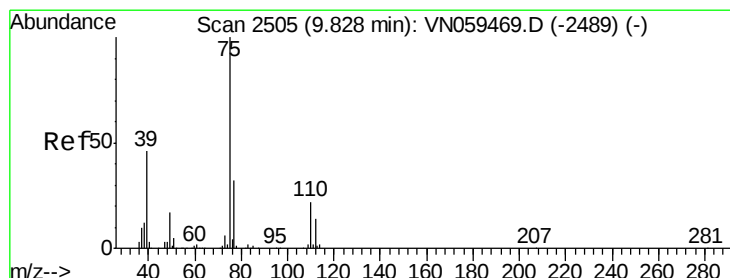
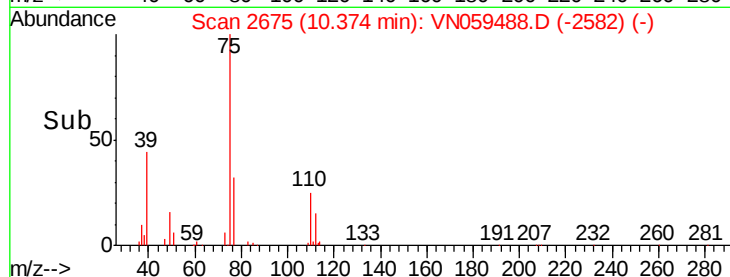
40000

20000

0

10.30 10.40 10.50

Time-->



#54

cis-1,3-Dichloropropene

Concen: 20.717 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

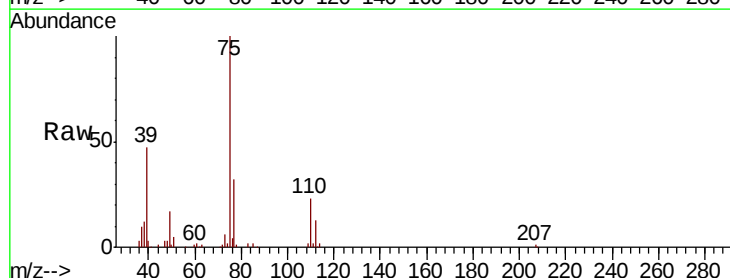
Tgt Ion: 75 Resp: 139178

Ion Ratio Lower Upper

75 100

77 31.6 25.7 38.5

39 46.7 36.6 54.8



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

100000

80000

60000

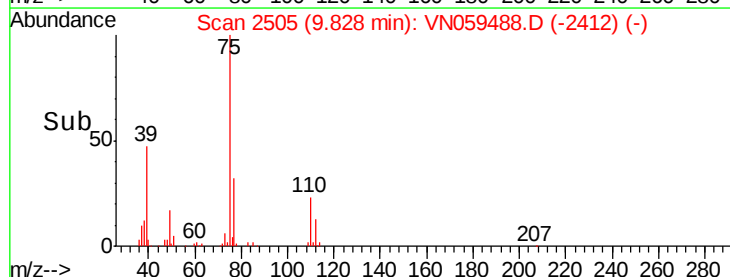
40000

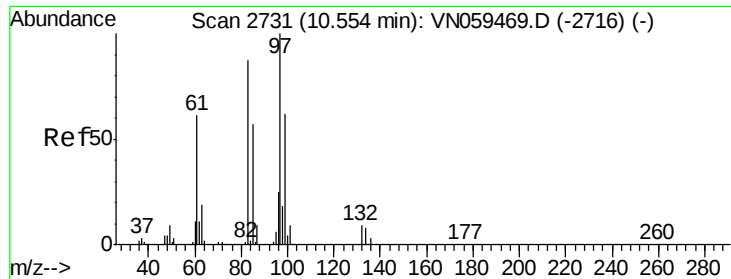
20000

0

9.75 9.80 9.85 9.90

Time-->

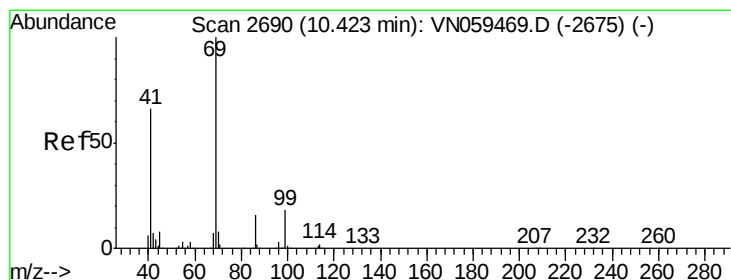
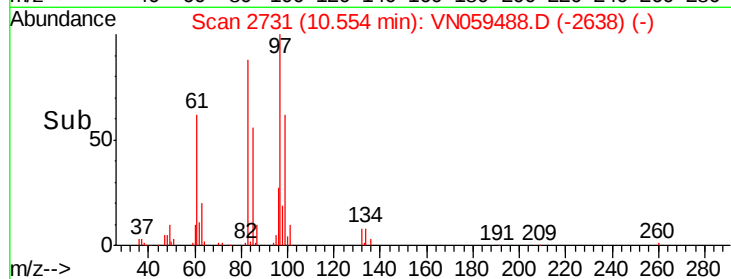
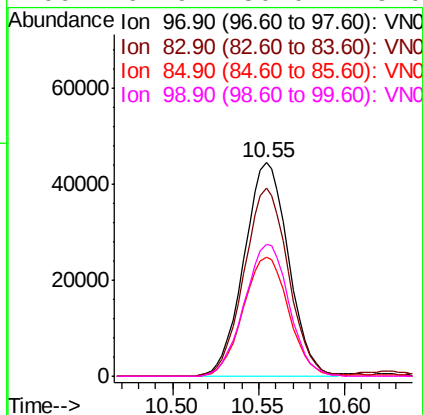
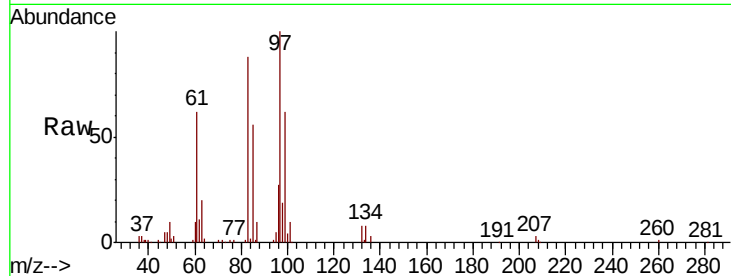




#55
 1,1,2-Trichloroethane
 Concen: 20.749 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN059488.D
 Acq: 4 Dec 2019 16:10

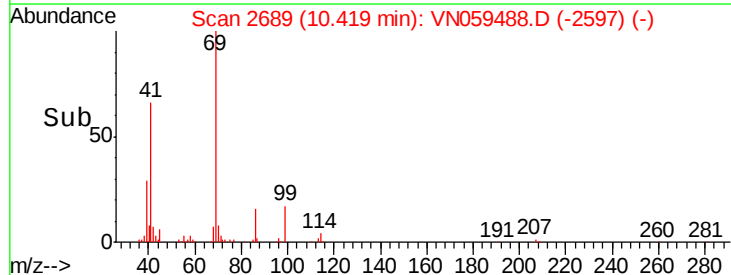
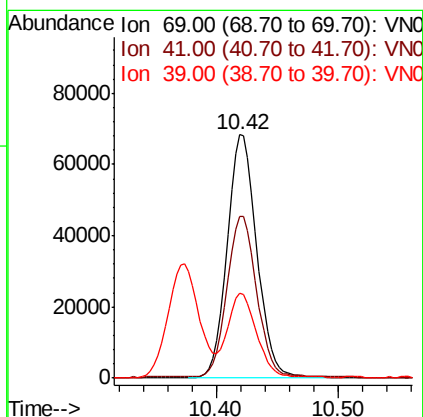
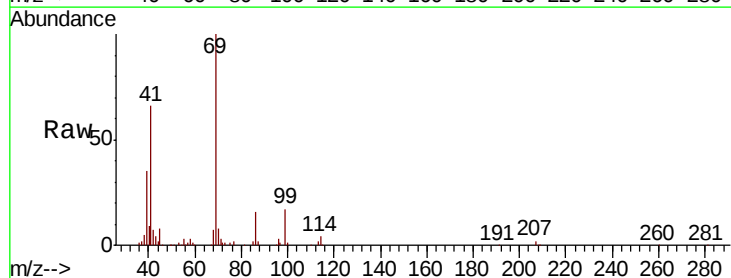
Instrument :
 MSVOA_N
 ClientSampleId :

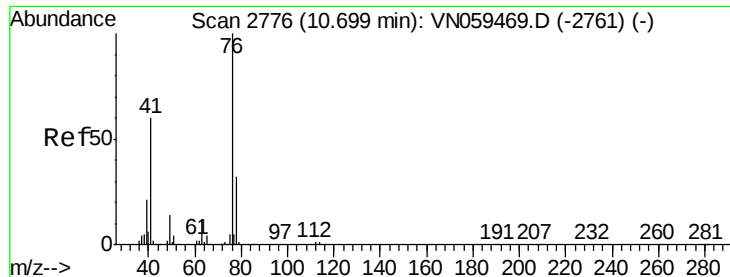
Tot Ion:	97	Resp:	79895
Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.8	104.8
85	56.0	45.5	68.3
99	61.9	50.0	75.0



#56
 Ethyl methacrylate
 Concen: 19.614 ug/l
 RT: 10.42 min Scan# 2689
 Delta R.T. -0.00 min
 Lab File: VN059488.D
 Acq: 4 Dec 2019 16:10

Tgt Ion:	69	Resp:	116606
Ion	Ratio	Lower	Upper
69	100		
41	65.8	52.7	79.1
39	33.0	25.0	37.6





#57

1,3-Dichloropropane

Concen: 20.726 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

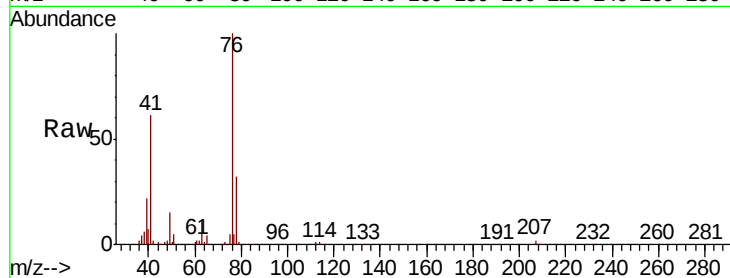
ClientSampleId :

Tot Ion: 76 Resp: 138008

Ion Ratio Lower Upper

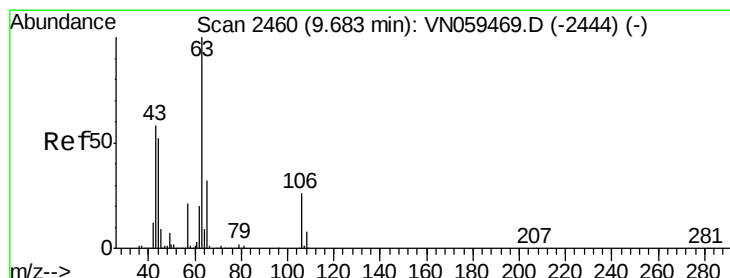
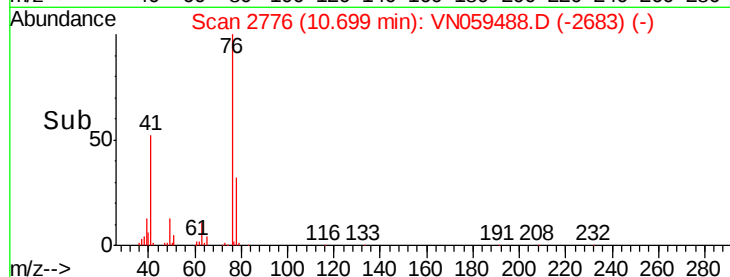
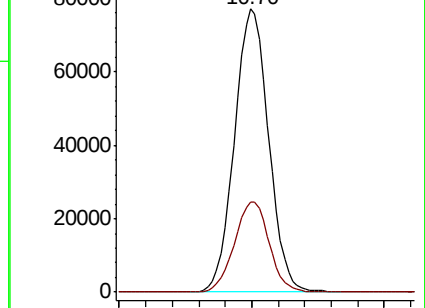
76 100

78 32.4 25.8 38.8



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 85.945 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. -0.00 min

Lab File: VN059488.D

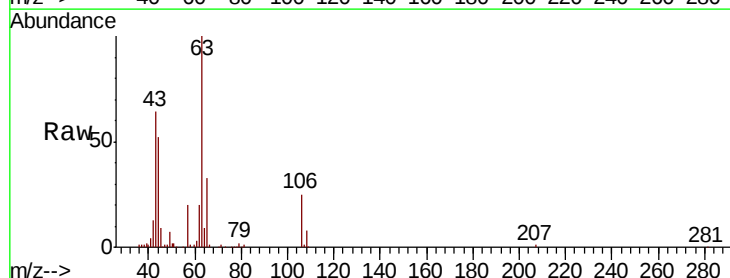
Acq: 4 Dec 2019 16:10

Tgt Ion: 63 Resp: 159187

Ion Ratio Lower Upper

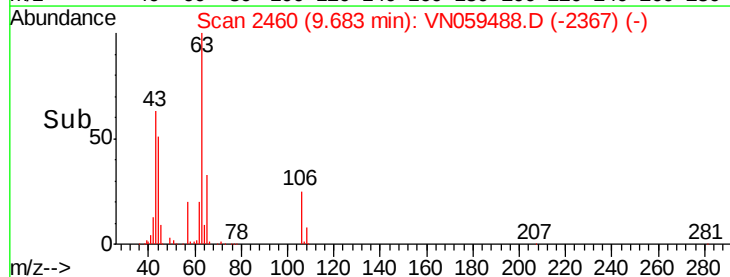
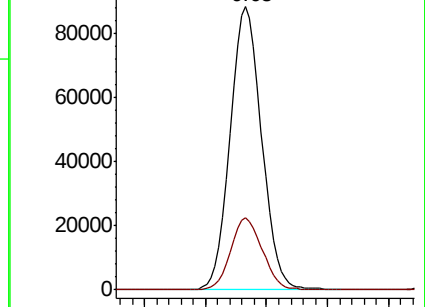
63 100

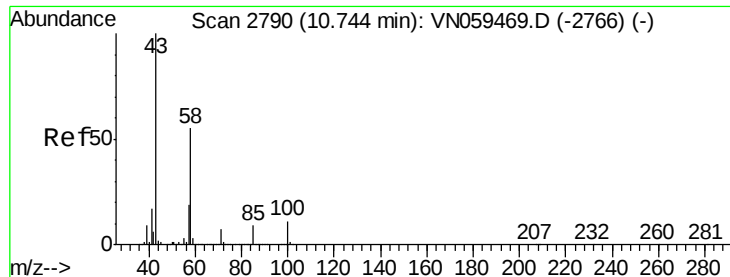
106 25.4 20.4 30.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

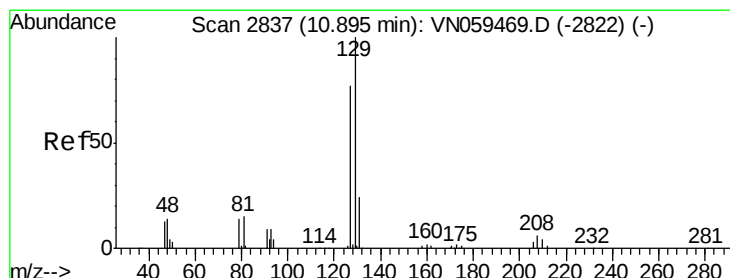
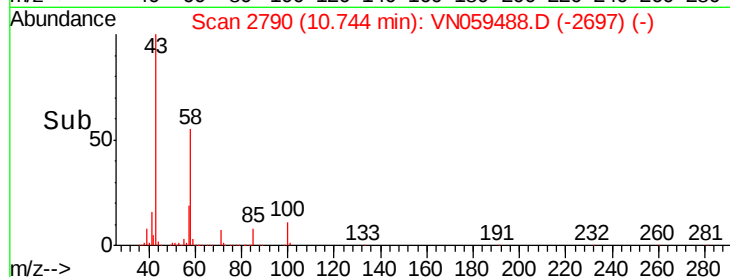
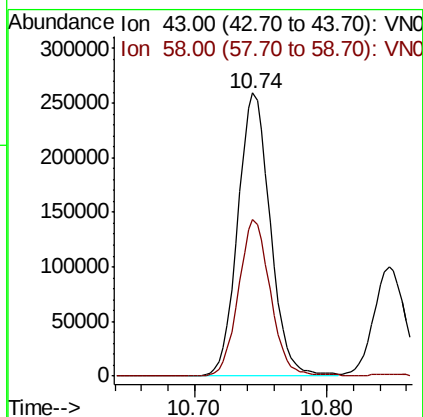
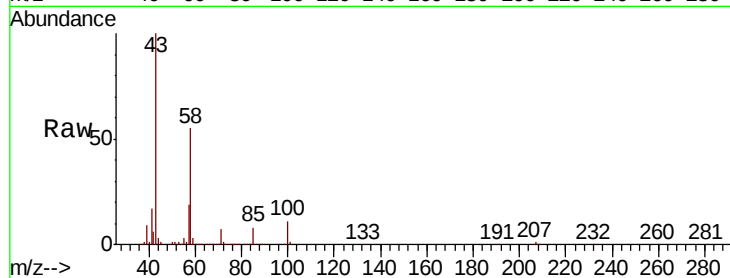




#59
2-Hexanone
Concen: 107.894 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

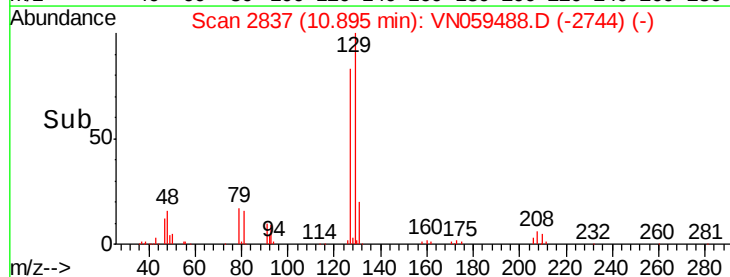
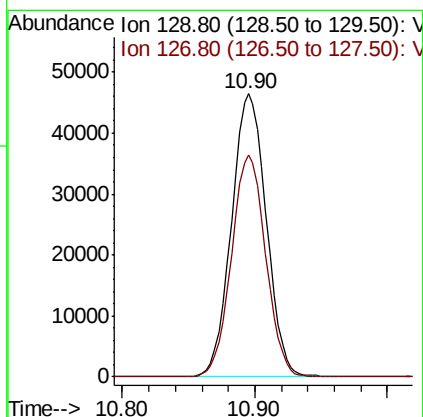
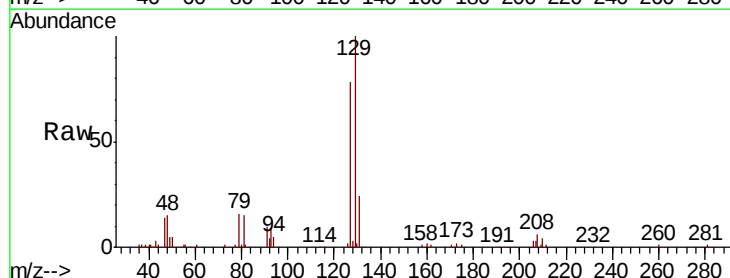
Instrument :
MSVOA_N
ClientSampleId :

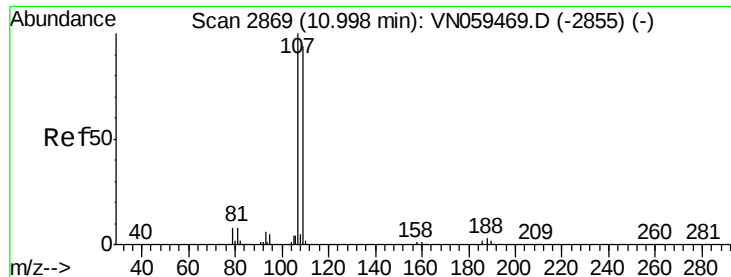
Tot Ion: 43 Resp: 441622
Ion Ratio Lower Upper
43 100
58 54.4 27.7 83.0



#60
Dibromochloromethane
Concen: 20.586 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion: 129 Resp: 84636
Ion Ratio Lower Upper
129 100
127 77.0 39.0 116.9





#61

1,2-Dibromoethane

Concen: 20.475 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

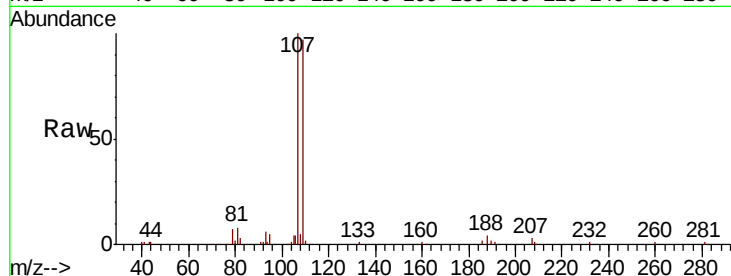
ClientSampled :

Tot Ion:107 Resp: 81464

Ion Ratio Lower Upper

107 100

109 96.2 75.4 113.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

50000

40000

30000

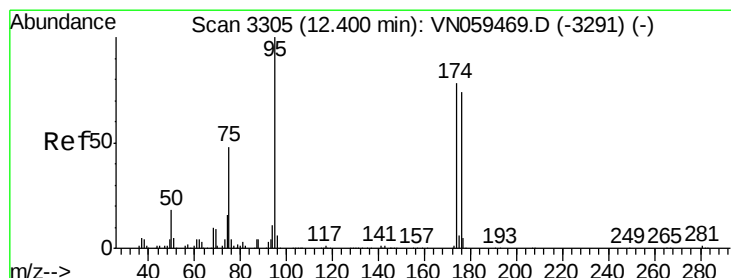
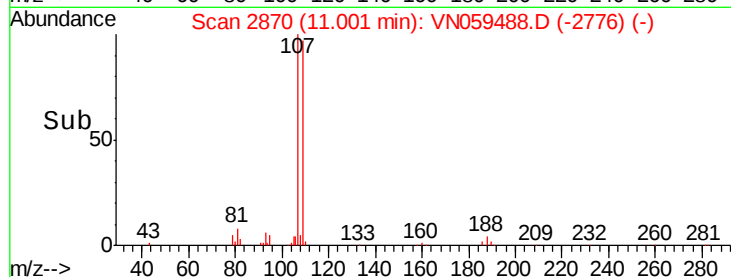
20000

10000

0

Time-->

10.95 11.00 11.05



#62

4-Bromofluorobenzene

Concen: 51.852 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

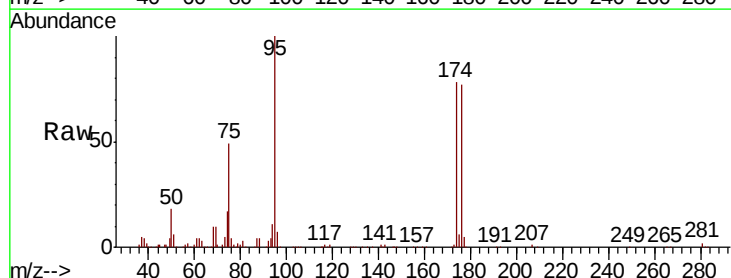
Tgt Ion: 95 Resp: 235676

Ion Ratio Lower Upper

95 100

174 78.1 0.0 157.0

176 76.9 0.0 152.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

150000

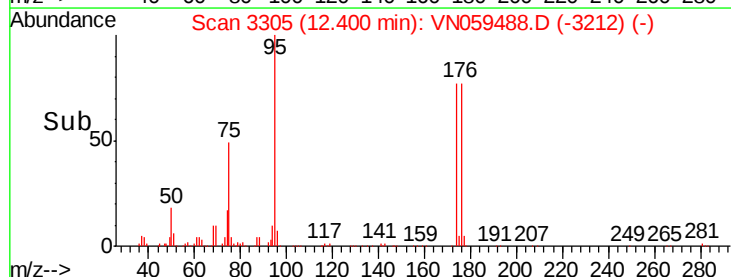
100000

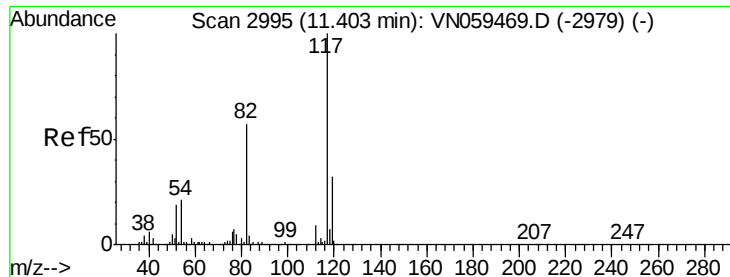
50000

0

Time-->

12.35 12.40 12.45





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampled :

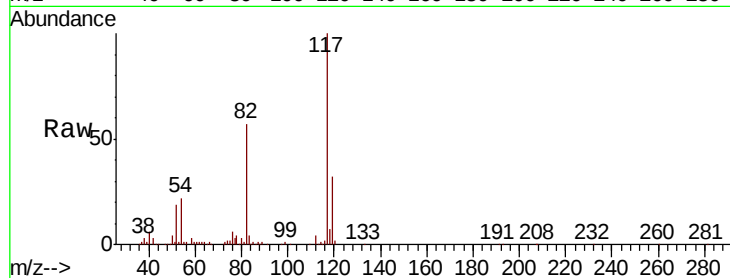
Tot Ion:117 Resp: 481911

Ion Ratio Lower Upper

117 100

82 57.1 45.8 68.8

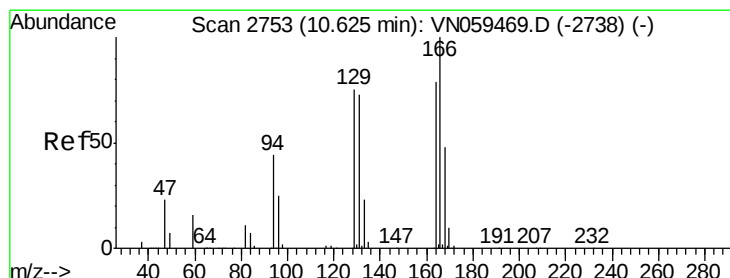
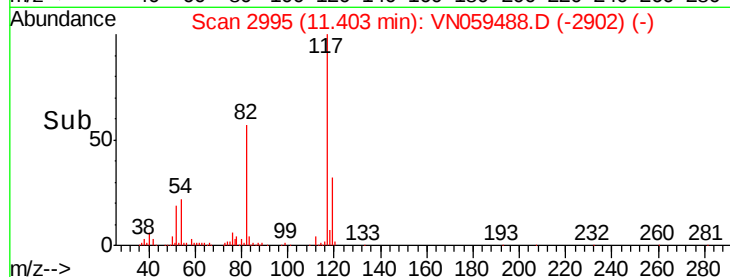
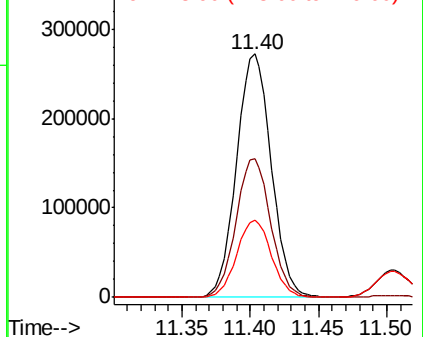
119 31.6 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 18.426 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Tgt Ion:164 Resp: 75532

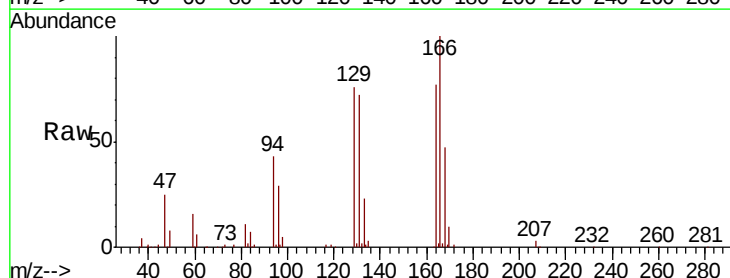
Ion Ratio Lower Upper

164 100

166 129.1 101.2 151.8

129 97.6 76.1 114.1

131 93.4 73.7 110.5

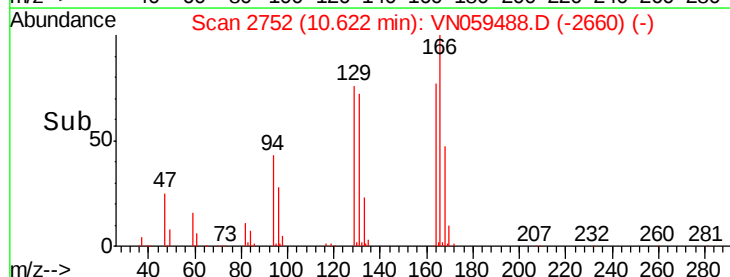
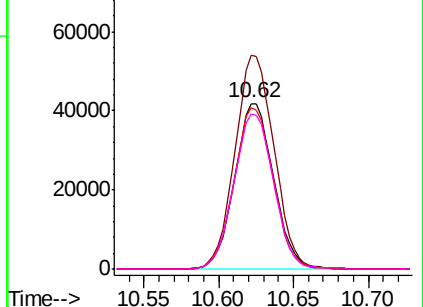


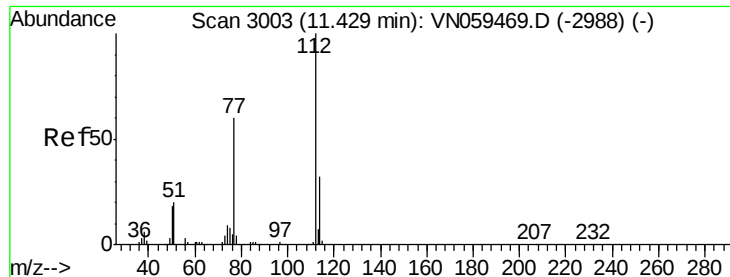
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

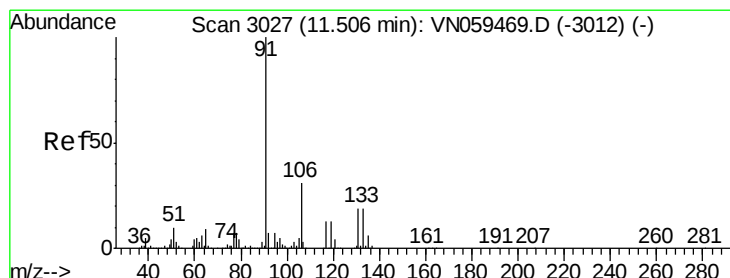
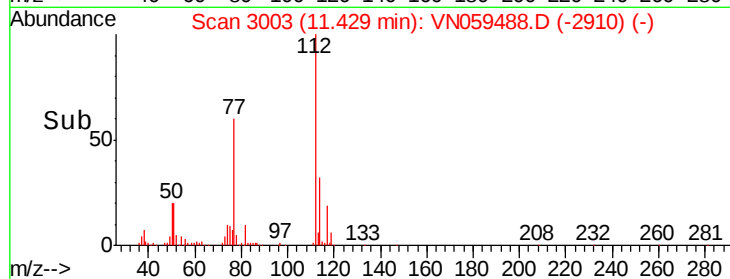
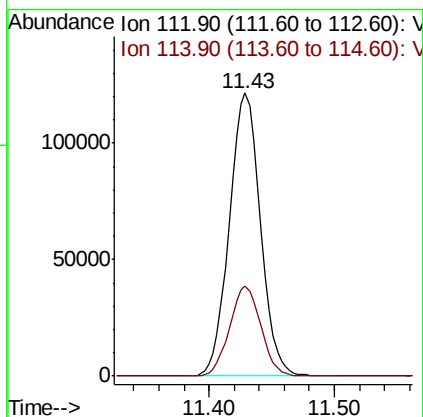
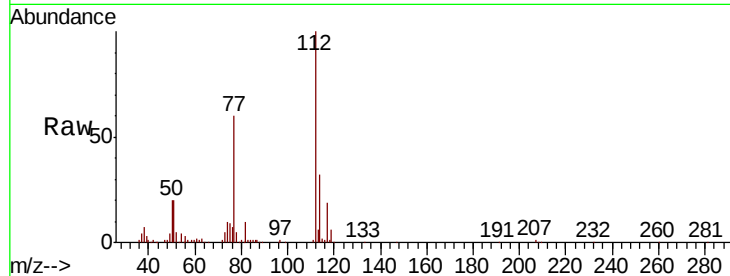




#65
Chlorobenzene
Concen: 19.822 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

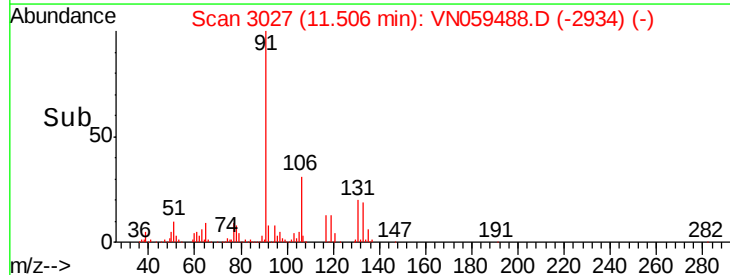
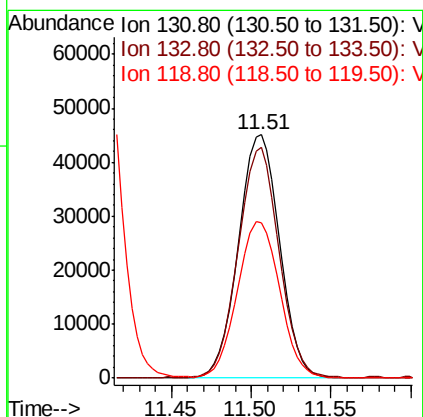
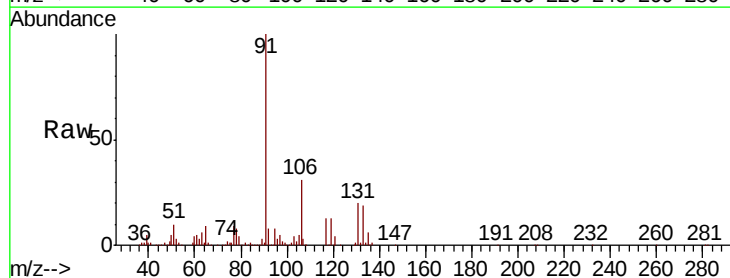
Instrument :
MSVOA_N
ClientSampled :

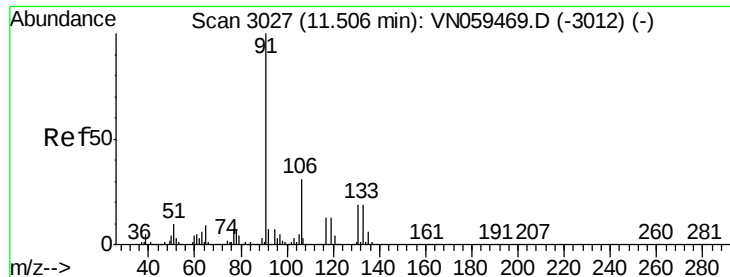
Tot Ion:112 Resp: 208825
Ion Ratio Lower Upper
112 100
114 31.9 25.7 38.5



#66
1,1,1,2-Tetrachloroethane
Concen: 20.884 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion:131 Resp: 79056
Ion Ratio Lower Upper
131 100
133 93.6 48.0 144.0
119 66.3 33.9 101.6





#67

Ethyl Benzene

Concen: 20.569 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

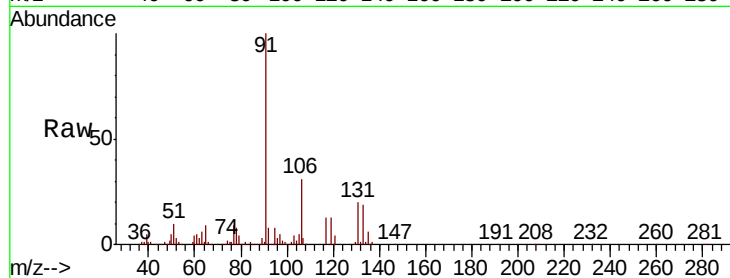
ClientSampled :

Tot Ion: 91 Resp: 379661

Ion Ratio Lower Upper

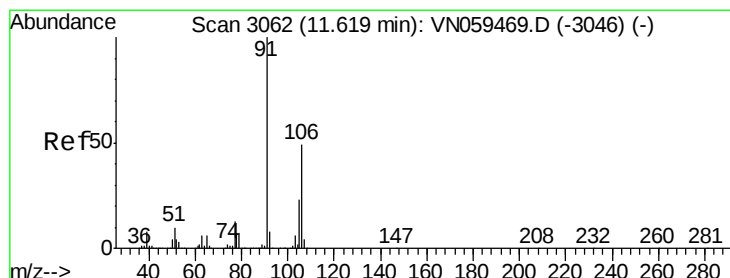
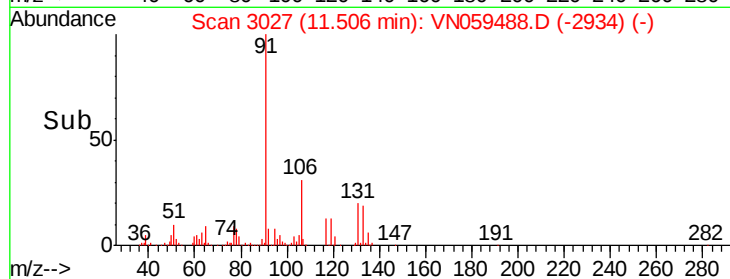
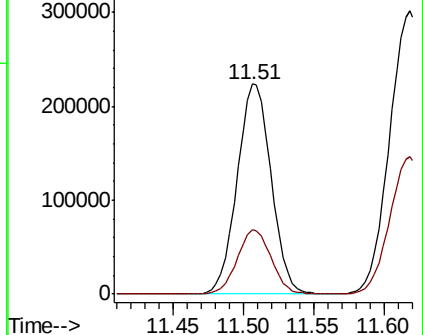
91 100

106 30.7 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 41.290 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN059488.D

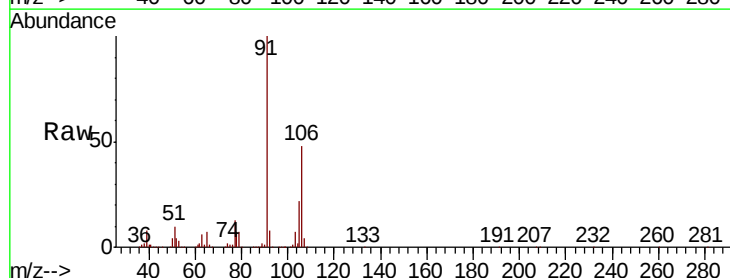
Acq: 4 Dec 2019 16:10

Tgt Ion: 106 Resp: 283780

Ion Ratio Lower Upper

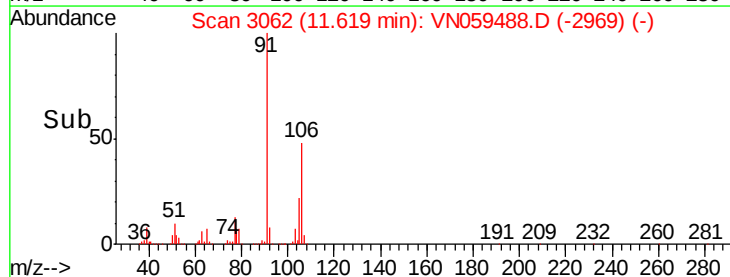
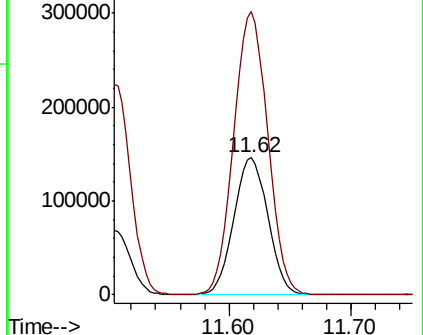
106 100

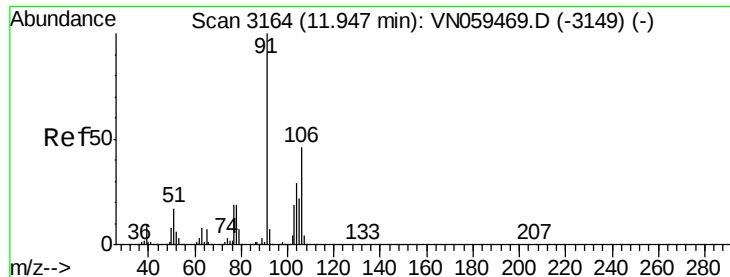
91 206.4 162.2 243.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

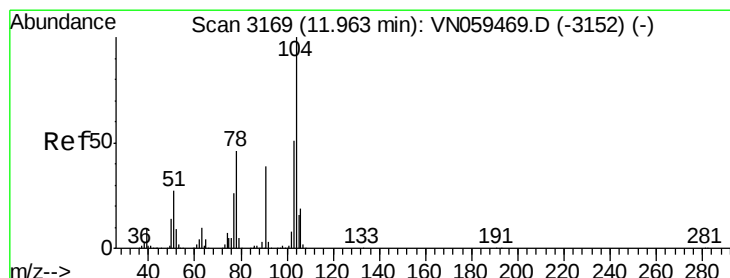
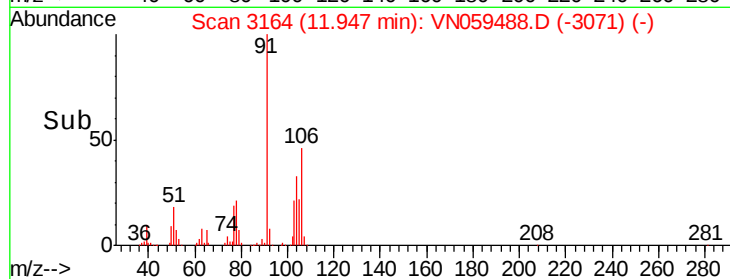
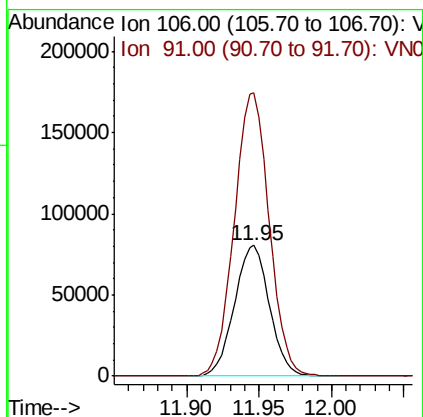
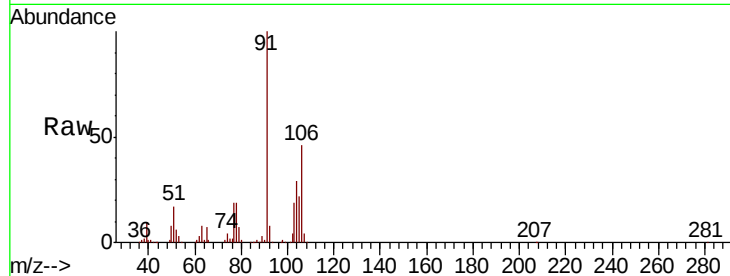




#69
o-Xylene
Concen: 20.532 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

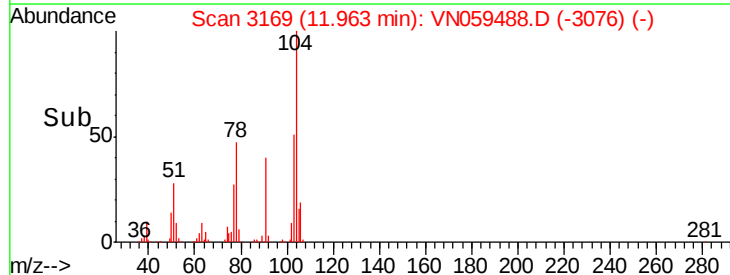
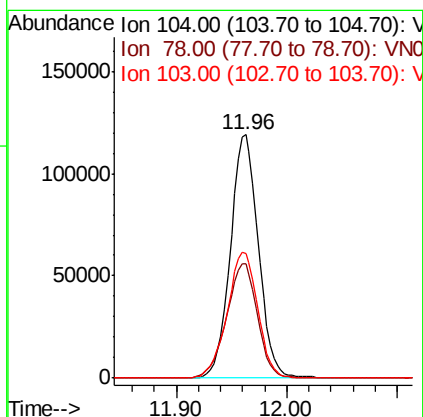
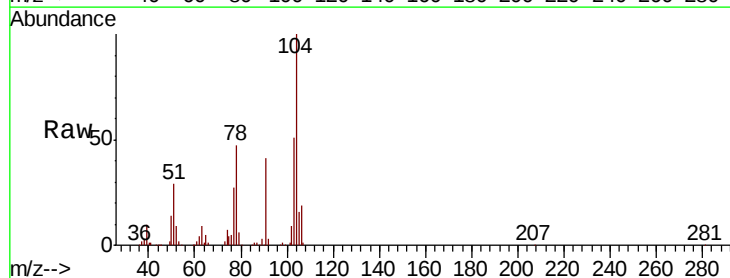
Instrument :
MSVOA_N
ClientSampleId :

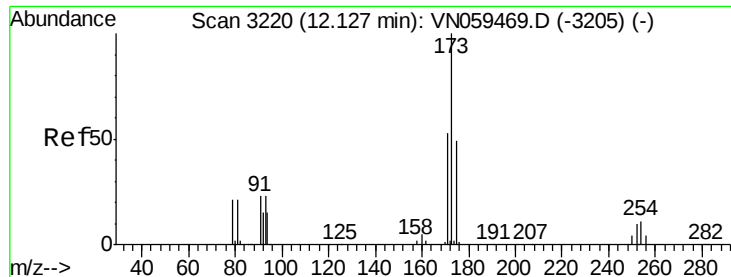
Tot Ion:106 Resp: 134345
Ion Ratio Lower Upper
106 100
91 217.1 108.5 325.3



#70
Styrene
Concen: 20.078 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion:104 Resp: 209722
Ion Ratio Lower Upper
104 100
78 51.9 41.0 61.4
103 56.5 44.7 67.1

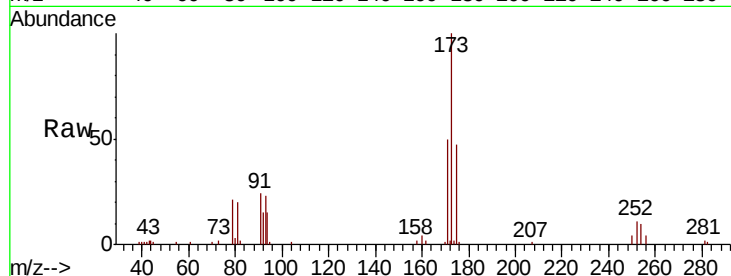




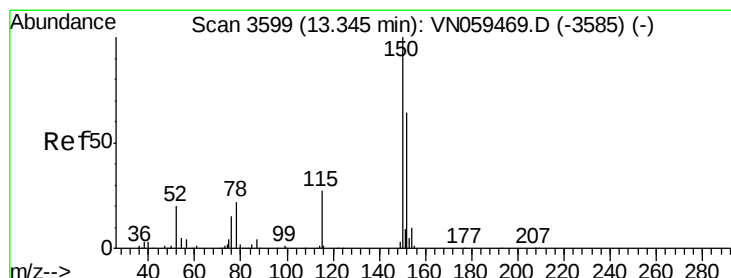
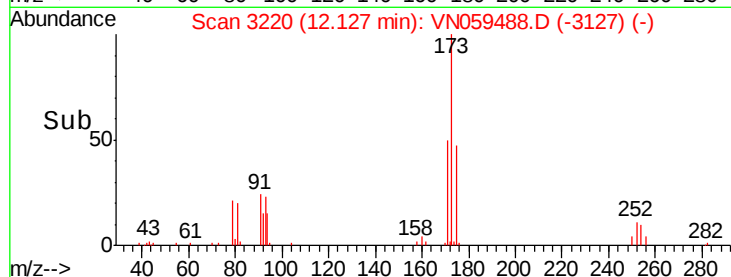
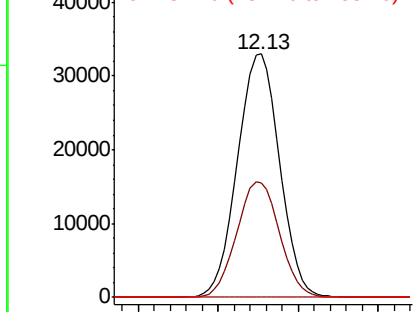
#71
Bromoform
Concen: 20.081 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 59252
Ion Ratio Lower Upper
173 100
175 48.2 24.3 73.0
254 0.0 0.0 0.0

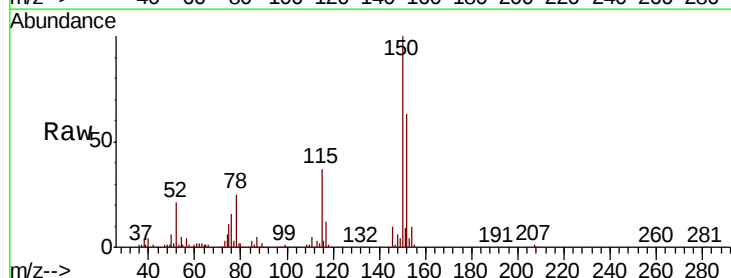


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

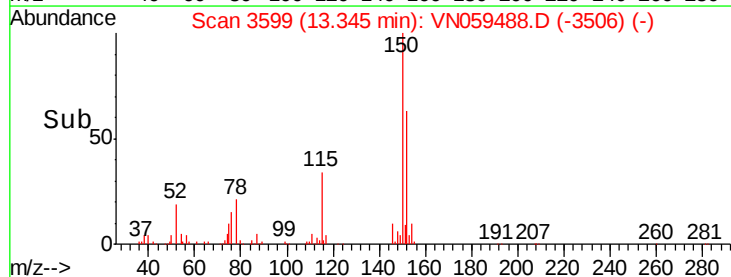
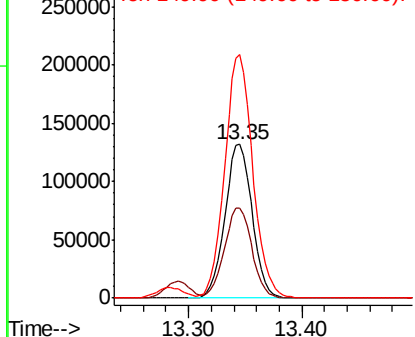


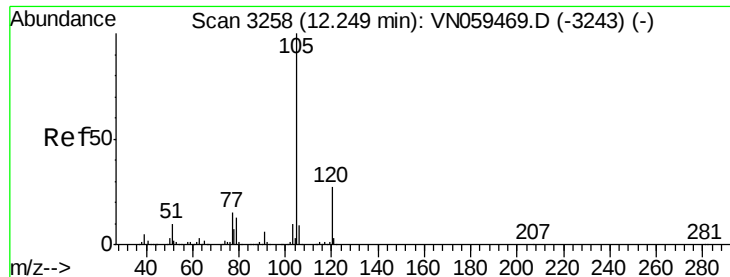
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion:152 Resp: 220260
Ion Ratio Lower Upper
152 100
115 58.8 29.2 87.6
150 163.0 0.0 352.8



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: 20.458 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

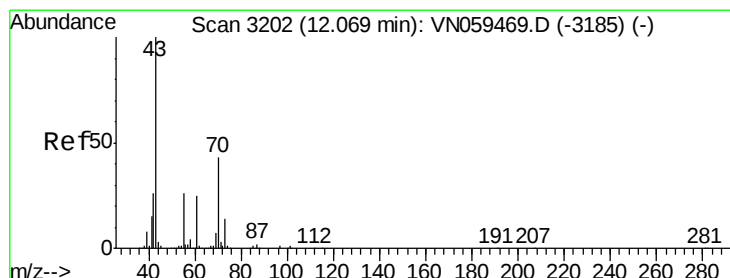
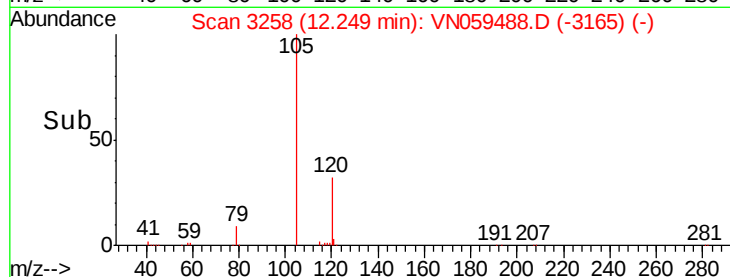
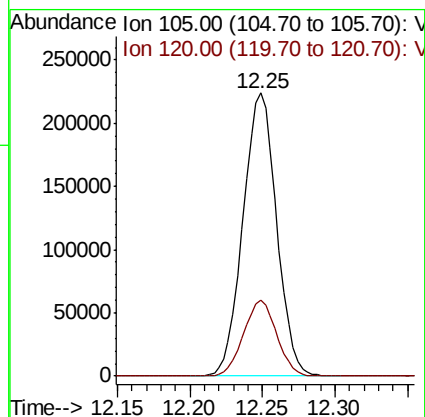
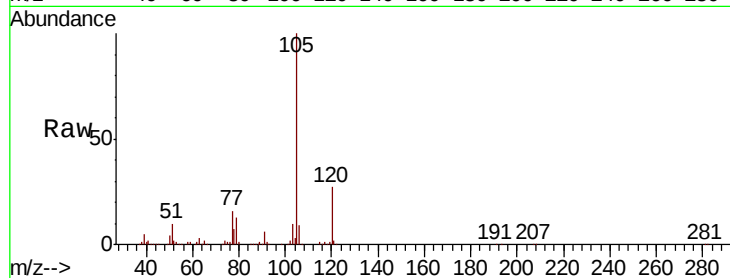
ClientSampleId :

Tot Ion:105 Resp: 361366

Ion Ratio Lower Upper

105 100

120 26.5 13.2 39.6



#74

N-ethyl acetate

Concen: 20.015 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Tgt Ion: 43 Resp: 142403

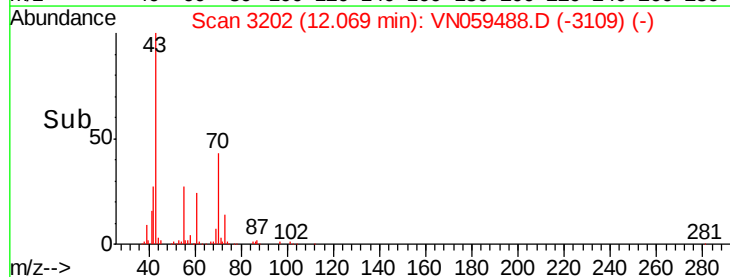
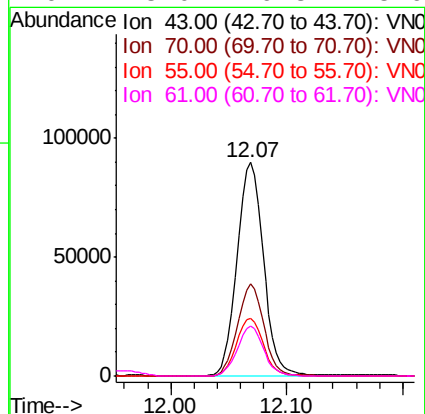
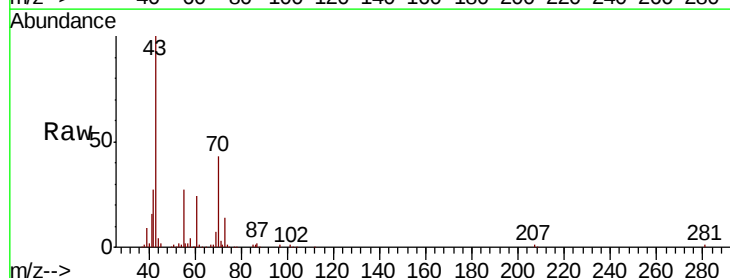
Ion Ratio Lower Upper

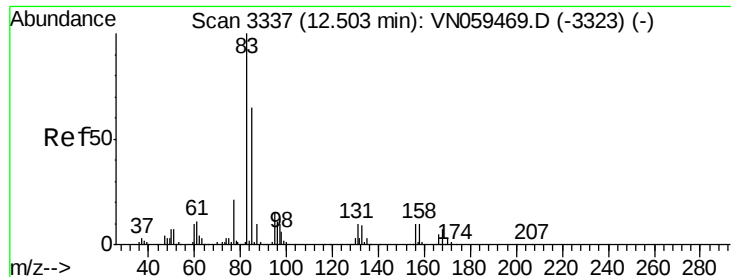
43 100

70 42.6 34.2 51.2

55 27.4 20.6 31.0

61 23.0 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 21.078 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

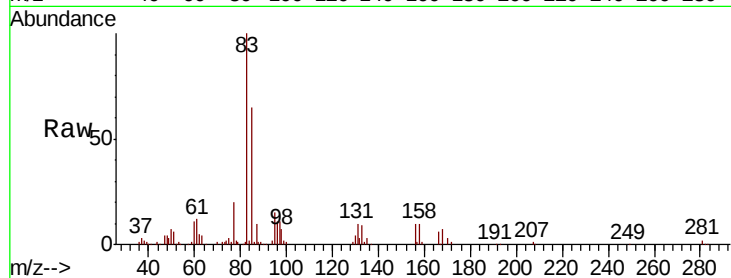
Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 83 Resp: 119429

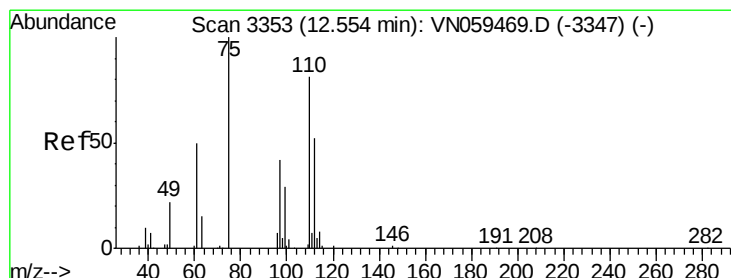
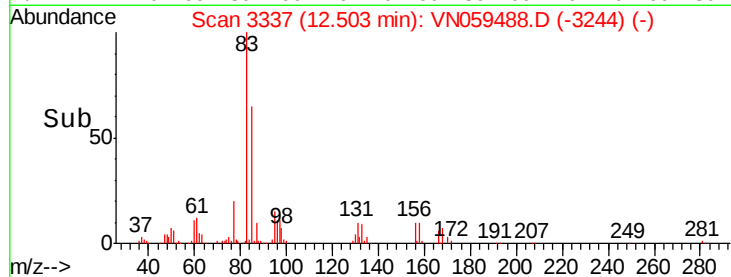
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	63.6	32.2	96.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 29.271 ug/l

RT: 12.55 min Scan# 3353

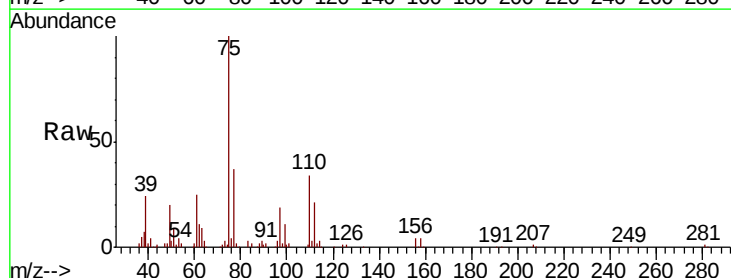
Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

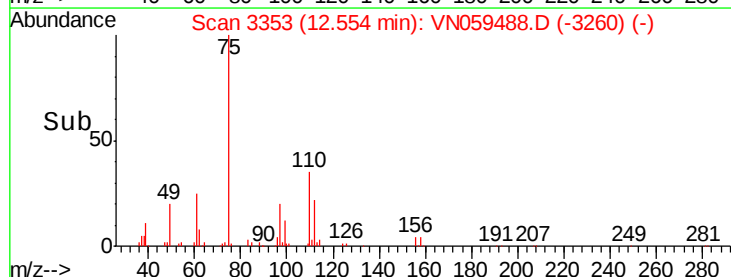
Tgt Ion: 75 Resp: 160305

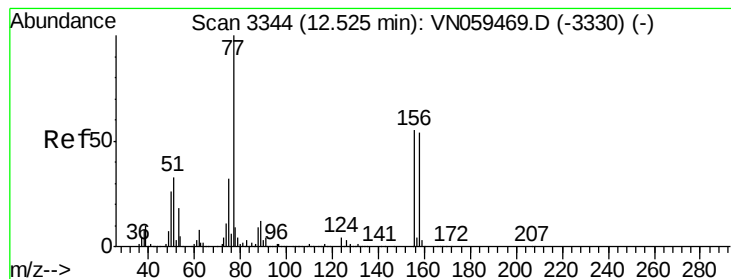
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 19.697 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampleId :

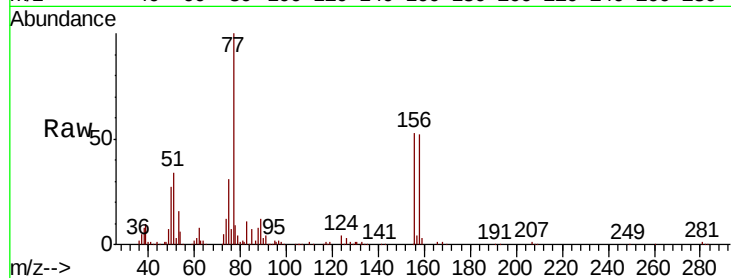
Tot Ion:156 Resp: 86946

Ion Ratio Lower Upper

156 100

77 226.0 110.3 331.0

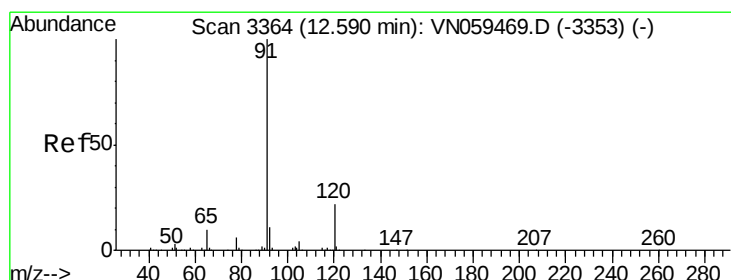
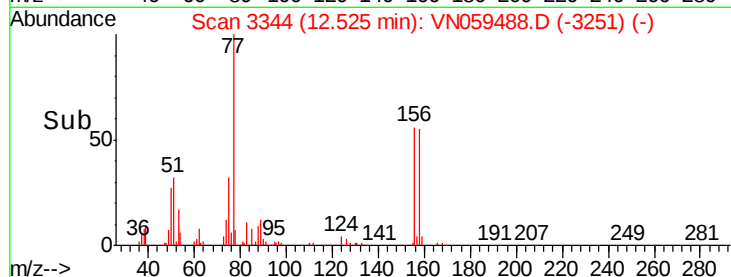
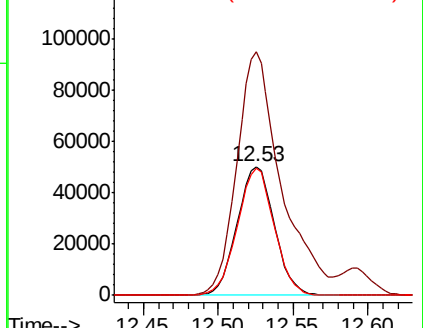
158 97.9 48.5 145.5



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: 20.291 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059488.D

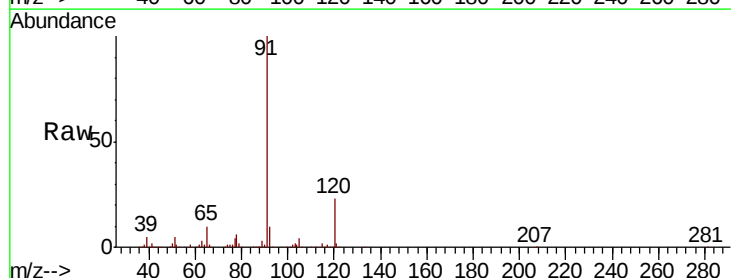
Acq: 4 Dec 2019 16:10

Tgt Ion: 91 Resp: 417112

Ion Ratio Lower Upper

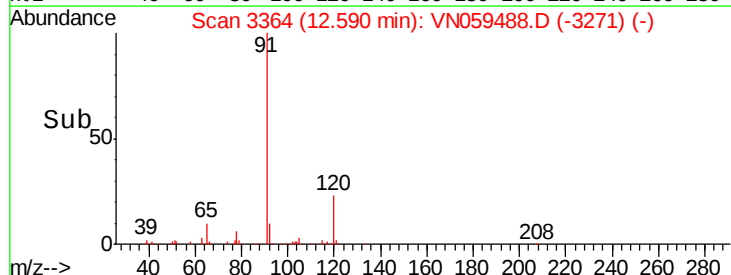
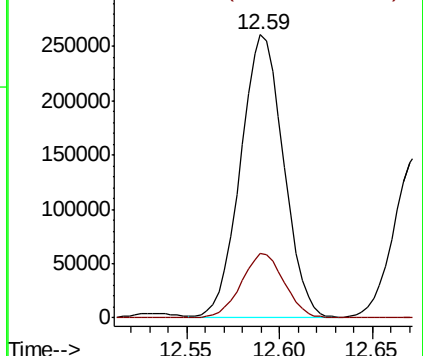
91 100

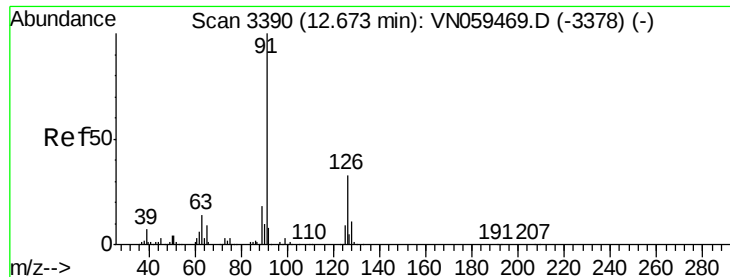
120 22.8 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.046 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

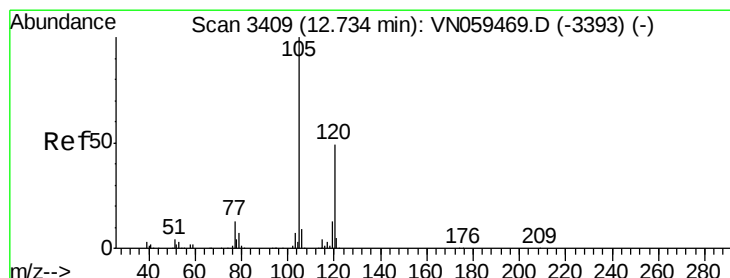
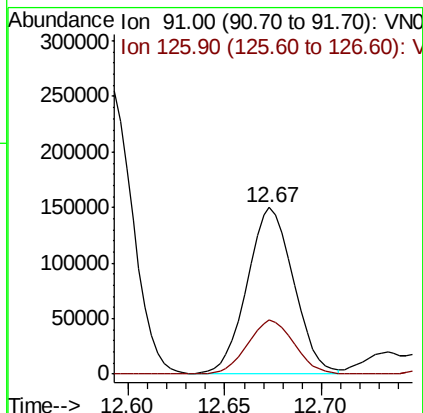
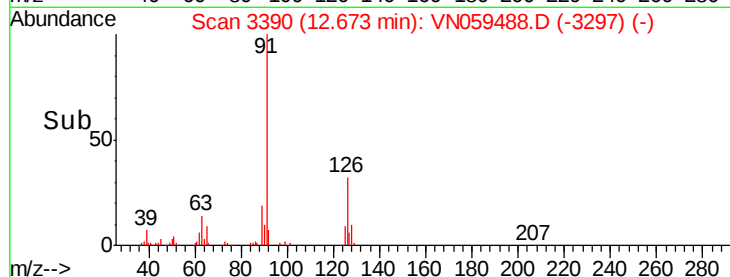
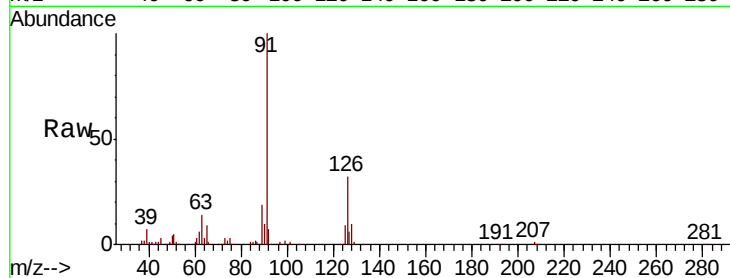
ClientSampleId :

Tot Ion: 91 Resp: 248400

Ion Ratio Lower Upper

91 100

126 33.1 16.6 49.8



#80

1,3,5-Trimethylbenzene

Concen: 20.723 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059488.D

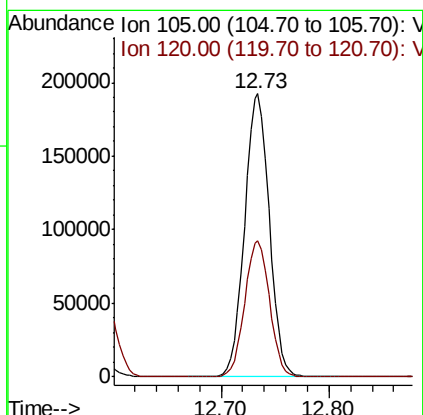
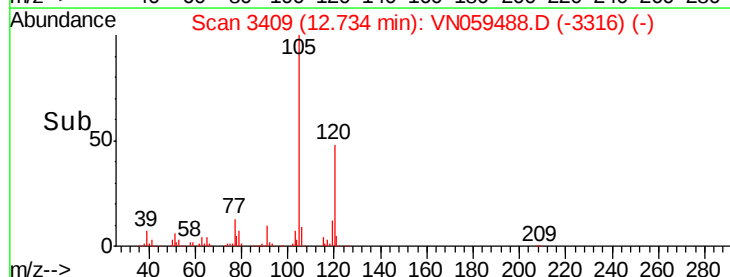
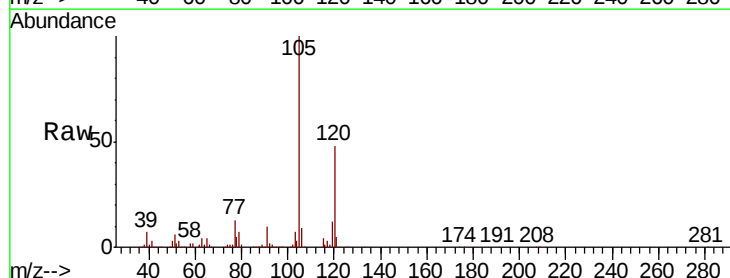
Acq: 4 Dec 2019 16:10

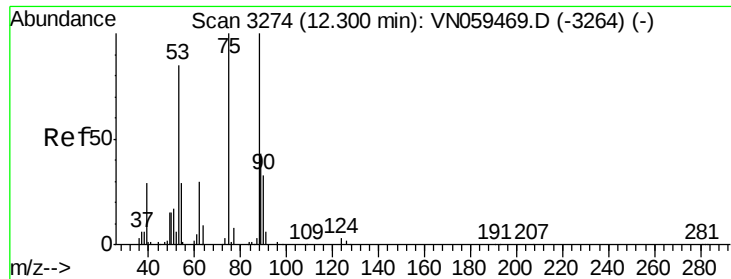
Tgt Ion: 105 Resp: 305902

Ion Ratio Lower Upper

105 100

120 48.4 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 19.192 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampleId :

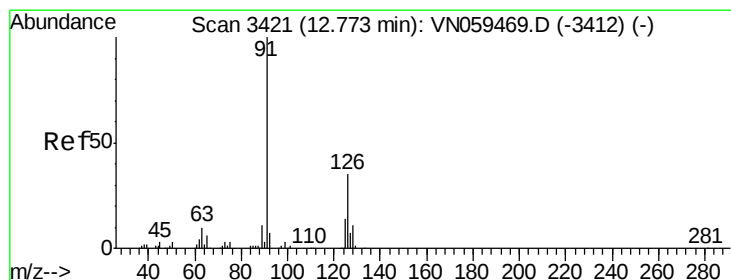
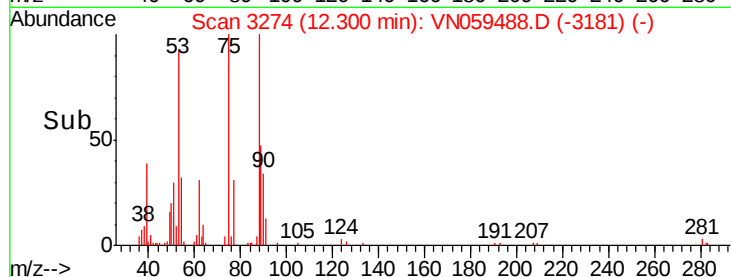
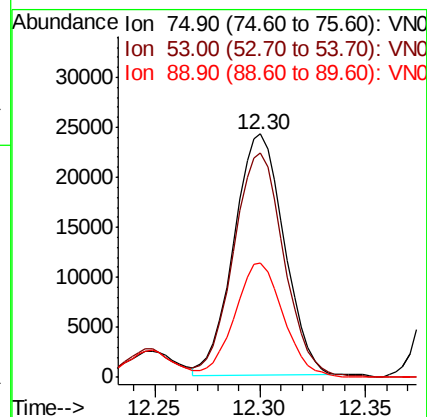
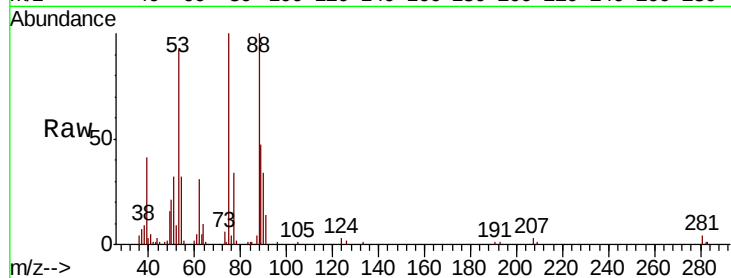
Tot Ion: 75 Resp: 40050

Ion Ratio Lower Upper

75 100

53 93.8 69.8 104.6

89 45.8 35.2 52.8



#82

4-Chlorotoluene

Concen: 19.883 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN059488.D

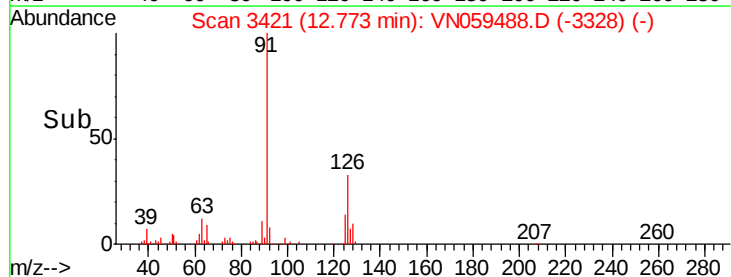
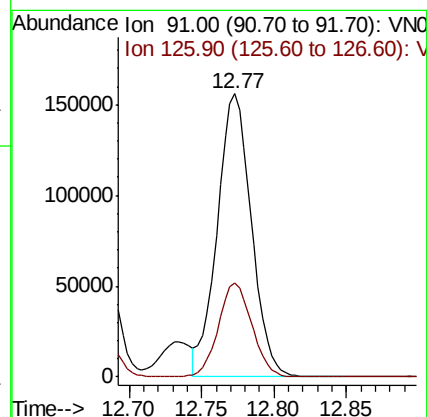
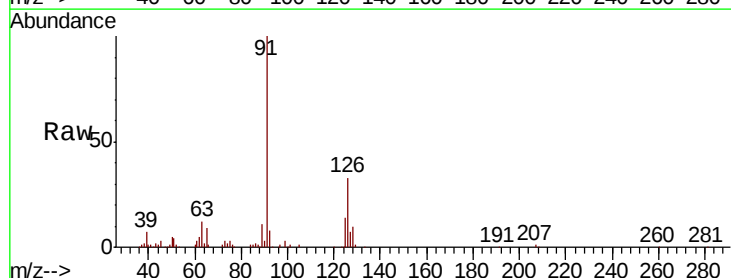
Acq: 4 Dec 2019 16:10

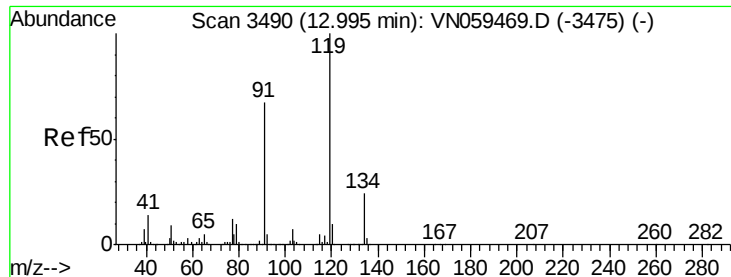
Tgt Ion: 91 Resp: 254200

Ion Ratio Lower Upper

91 100

126 32.8 16.4 49.2

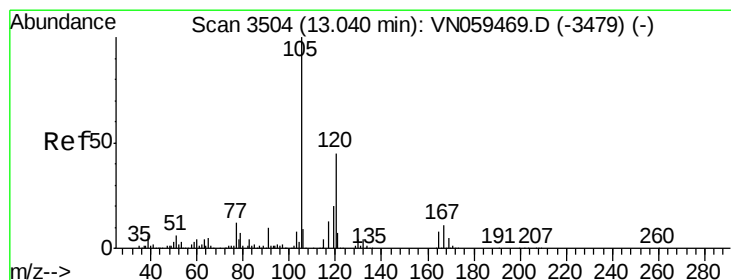
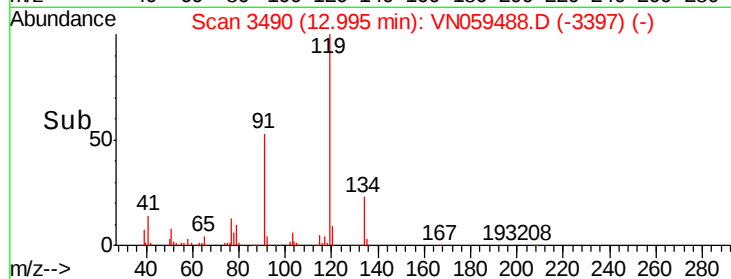
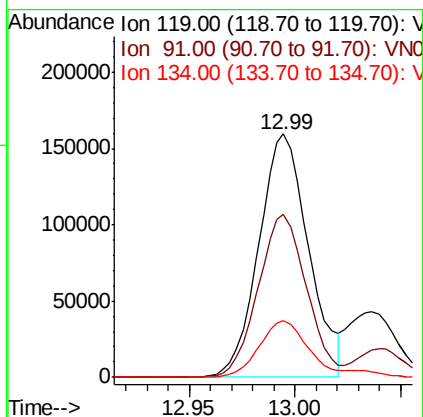
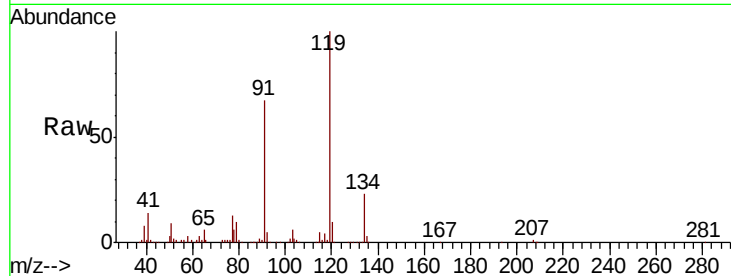




#83
tert-Butylbenzene
Concen: 20.429 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

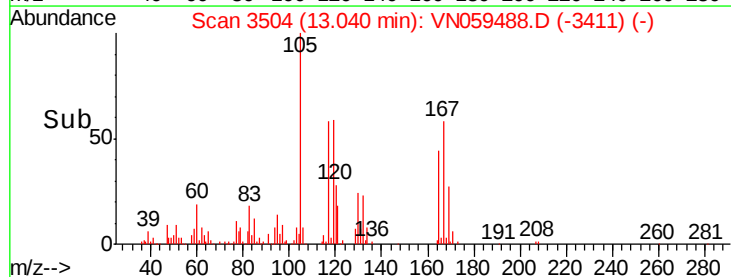
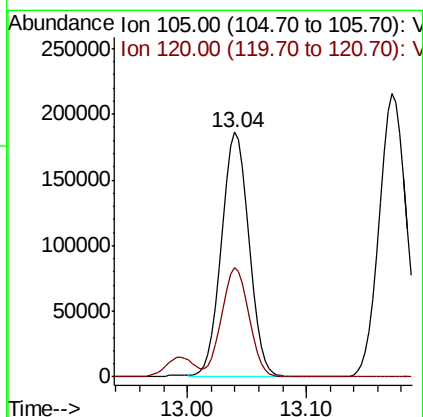
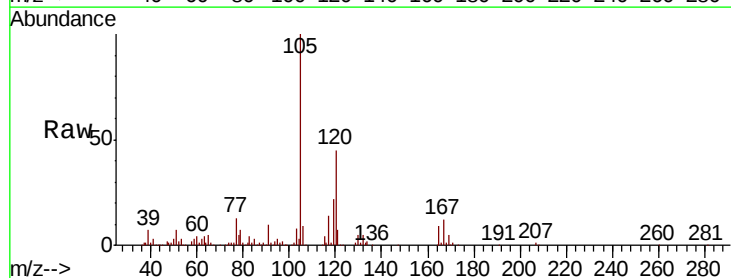
Instrument :
MSVOA_N
ClientSampleId :

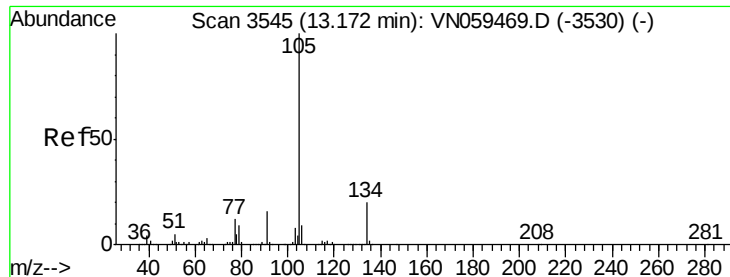
Tot Ion	Ratio	Lower	Upper
119	100		
91	65.4	32.6	97.7
134	24.8	12.6	37.6



#84
1,2,4-Trimethylbenzene
Concen: 20.666 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN059488.D
Acq: 4 Dec 2019 16:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.6	67.8





#85

sec-Butylbenzene

Concen: 20.298 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

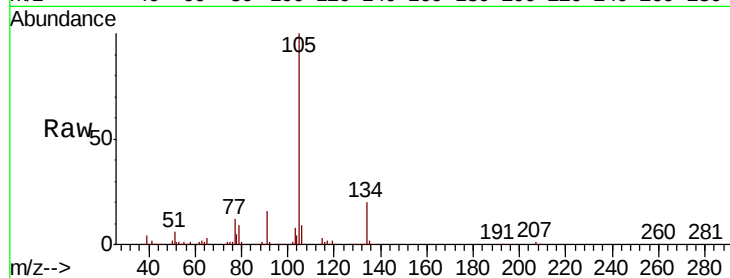
ClientSampled :

Tot Ion:105 Resp: 344776

Ion Ratio Lower Upper

105 100

134 19.8 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

100000

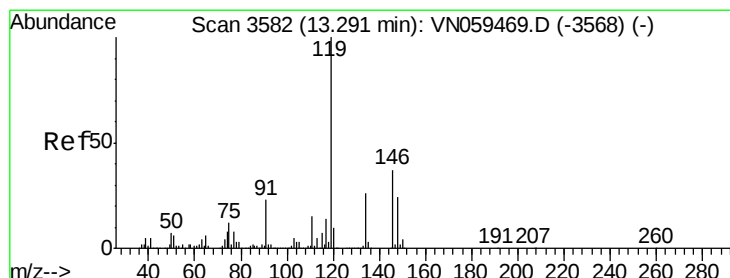
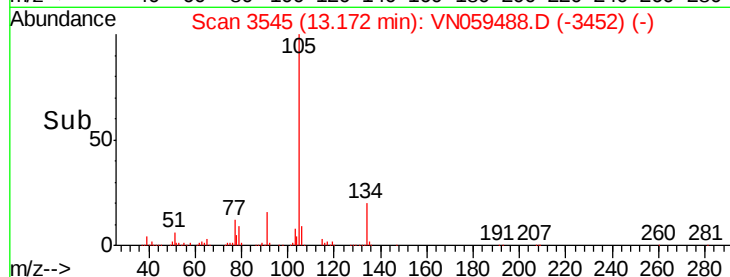
50000

0

13.10

13.20

Time-->



#86

p-Isopropyltoluene

Concen: 20.326 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

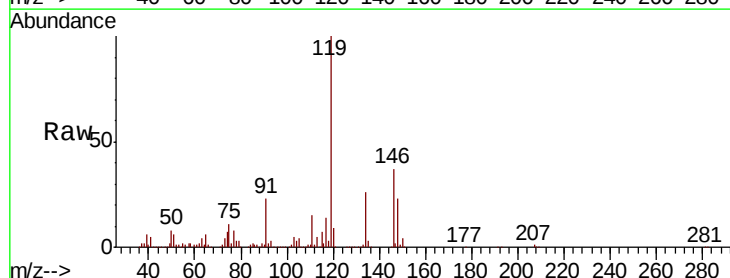
Tgt Ion:119 Resp: 309390

Ion Ratio Lower Upper

119 100

134 26.1 13.1 39.3

91 23.4 11.7 35.1



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

250000

200000

150000

100000

50000

0

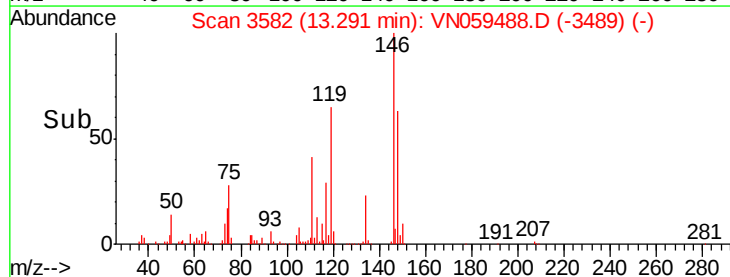
13.20

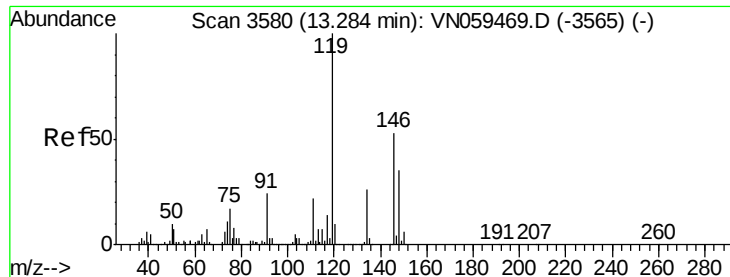
13.25

13.30

13.35

Time-->





#87

1,3-Dichlorobenzene

Concen: 19.599 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampled :

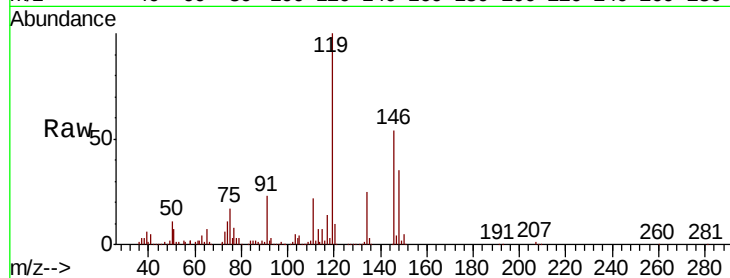
Tot Ion:146 Resp: 152534

Ion Ratio Lower Upper

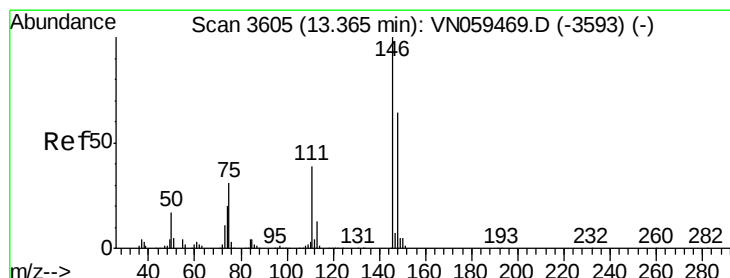
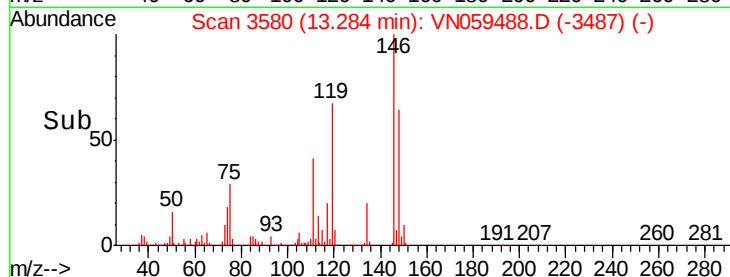
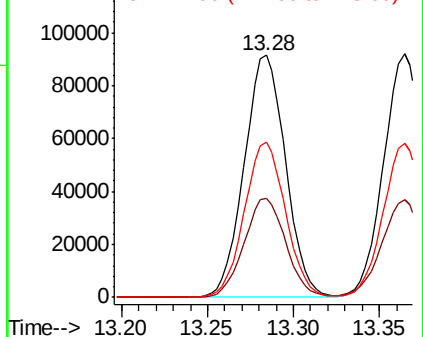
146 100

111 41.2 20.4 61.3

148 63.9 32.1 96.5



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



#88

1,4-Dichlorobenzene

Concen: 19.260 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

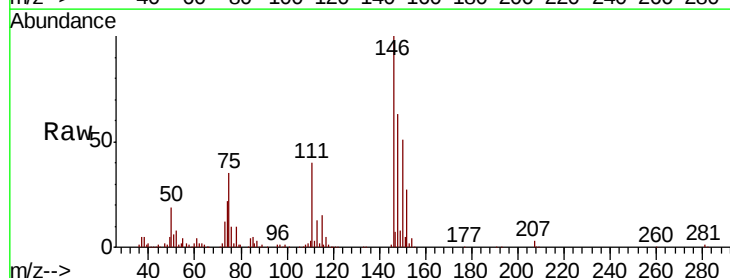
Tgt Ion:146 Resp: 151175

Ion Ratio Lower Upper

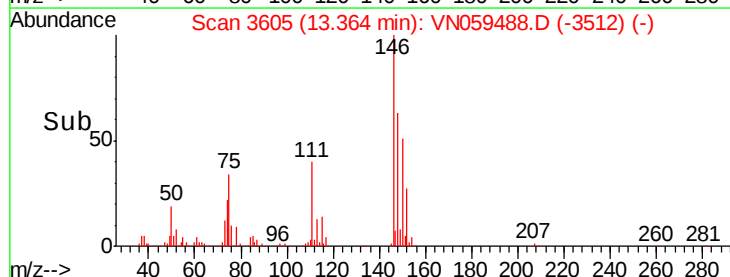
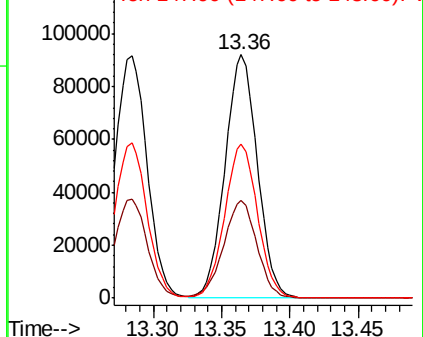
146 100

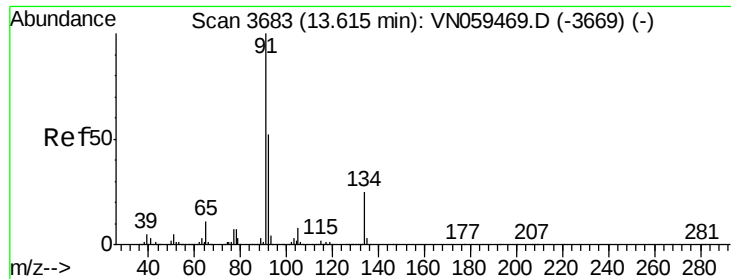
111 41.6 19.8 59.3

148 64.0 32.0 96.0



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





#89

n-Butylbenzene

Concen: 19.476 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Instrument :

MSVOA_N

ClientSampled :

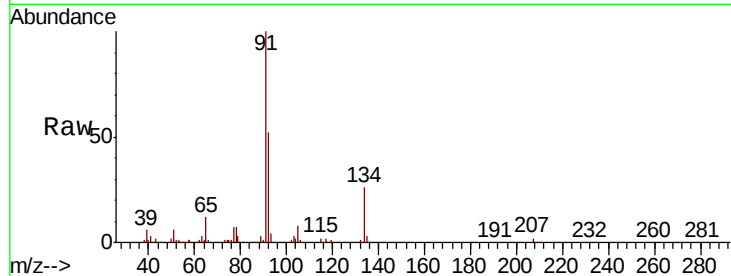
Tot Ion: 91 Resp: 265598

Ion Ratio Lower Upper

91 100

92 51.7 25.9 77.8

134 25.5 12.6 37.6



Abundance Ion 91.00 (90.70 to 91.70): VN059488.D (-3669) (-)

Ion 92.00 (91.70 to 92.70): VN059488.D (-3669) (-)

Ion 134.00 (133.70 to 134.70): VN059488.D (-3669) (-)

13.62

200000

150000

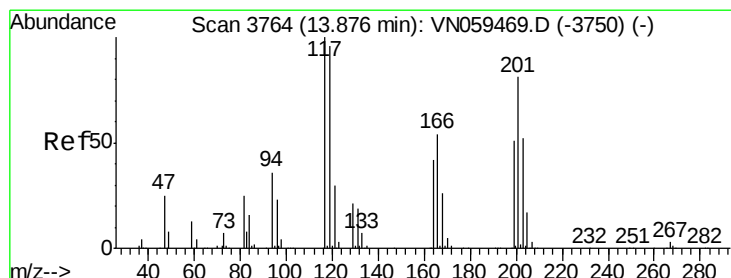
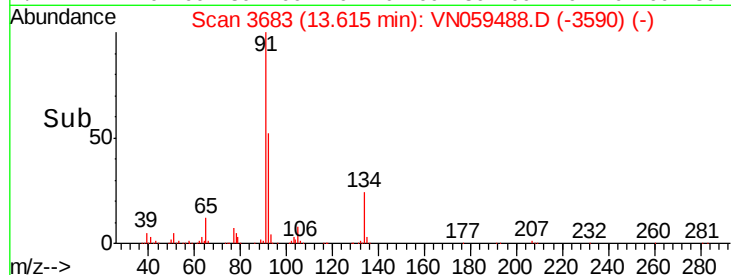
100000

50000

0

13.50 13.60 13.70

Time-->



#90

Hexachloroethane

Concen: 19.633 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

Lab File: VN059488.D

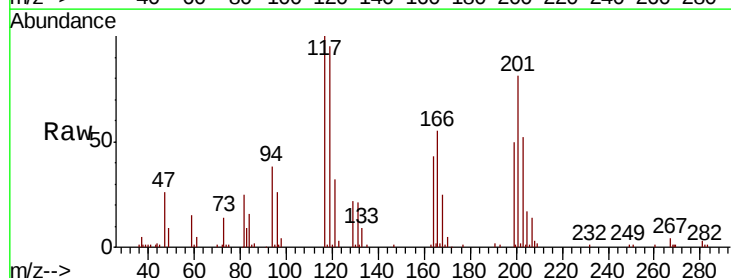
Acq: 4 Dec 2019 16:10

Tgt Ion: 117 Resp: 57636

Ion Ratio Lower Upper

117 100

201 81.1 40.6 122.0



Abundance Ion 116.80 (116.50 to 117.50): VN059488.D (-3750) (-)

Ion 200.70 (200.40 to 201.40): VN059488.D (-3750) (-)

13.88

40000

30000

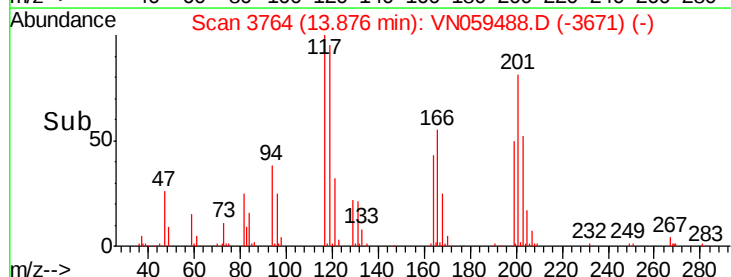
20000

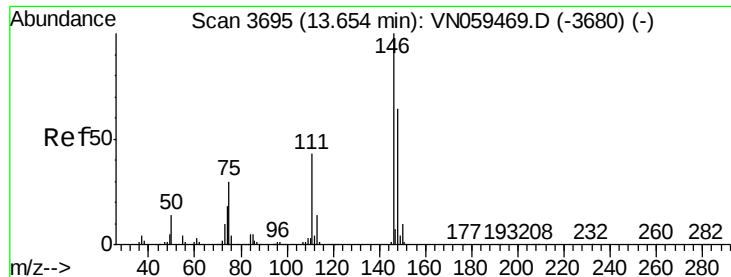
10000

0

13.80 13.85 13.90 13.95

Time-->

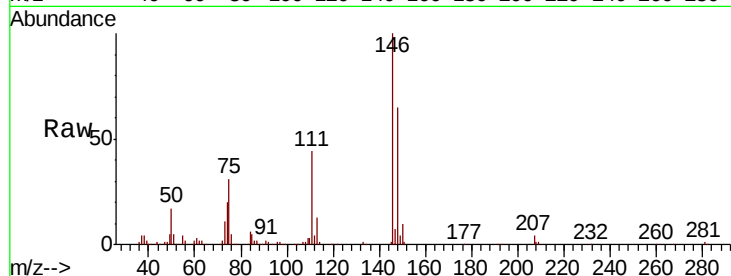




#91
 1,2-Dichlorobenzene
 Concen: 19.805 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN059488.D
 Acq: 4 Dec 2019 16:10

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.3	63.7
148	64.7	32.2	96.6

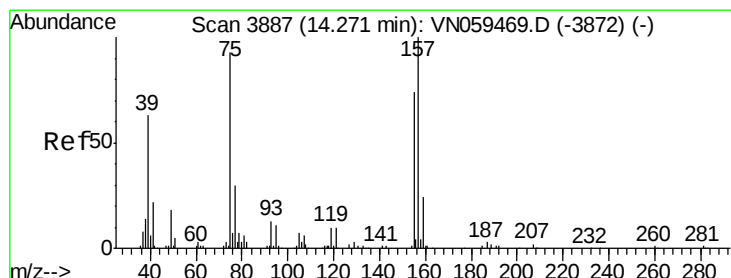
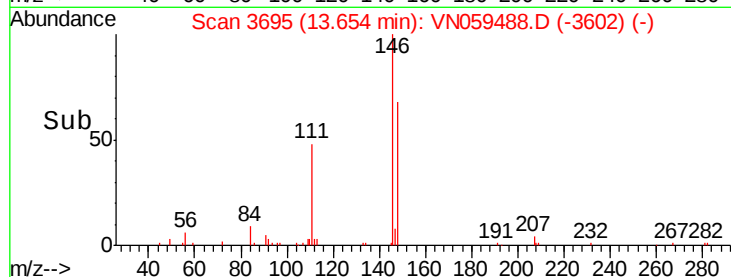
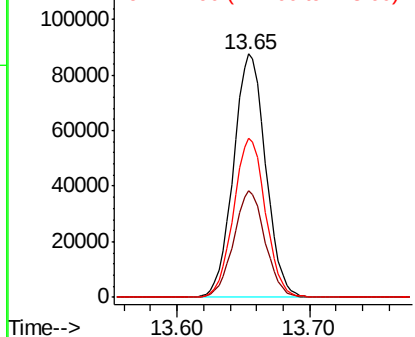


Abundance

Ion 145.90 (145.60 to 146.60): V

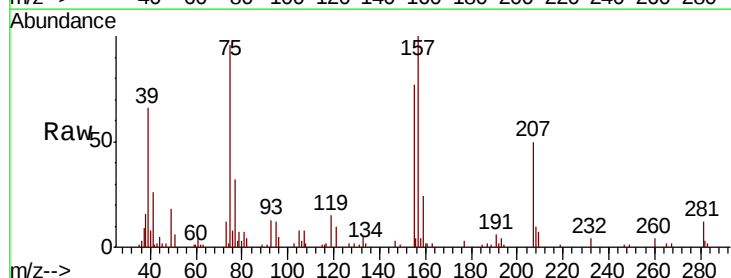
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.350 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059488.D
 Acq: 4 Dec 2019 16:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.9	40.6	122.0
157	102.7	52.9	158.7

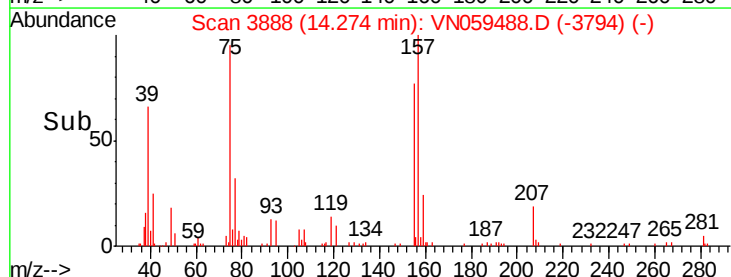
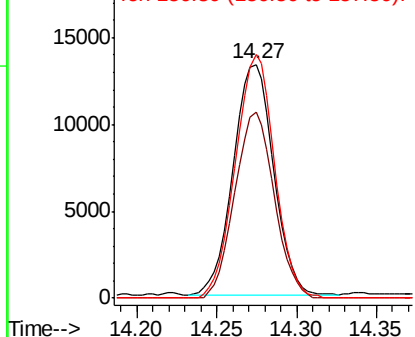


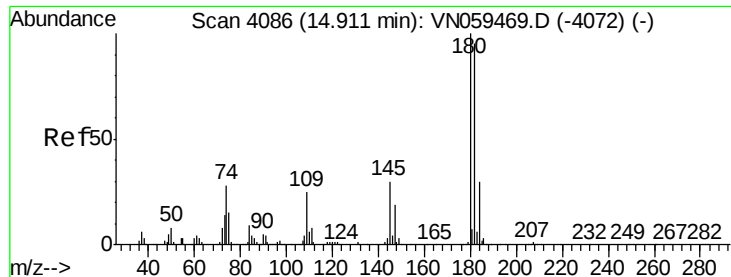
Abundance

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

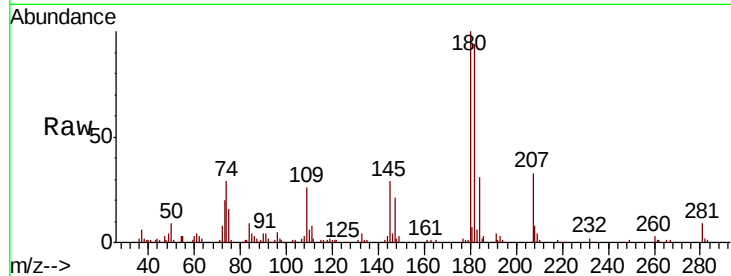




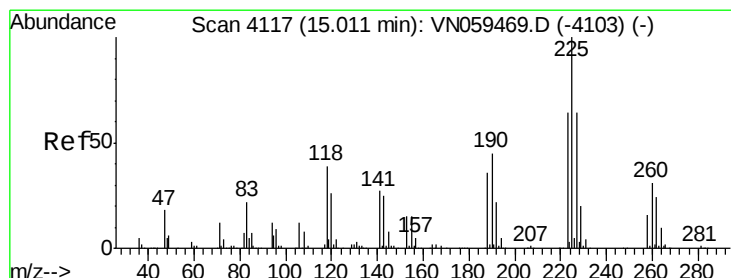
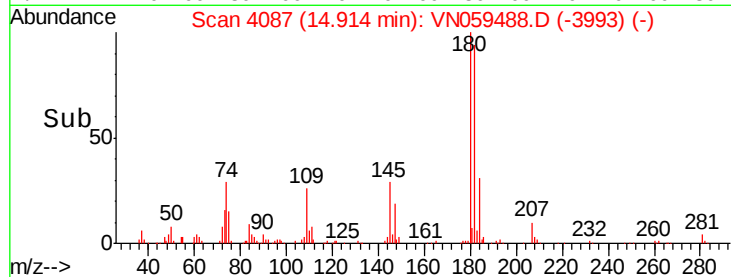
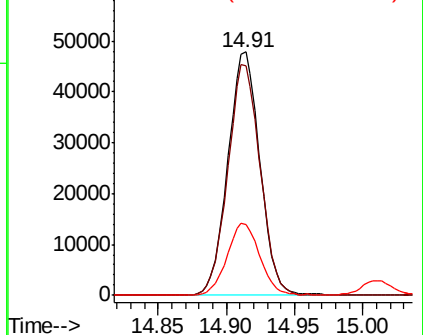
#93
 1,2,4-Trichlorobenzene
 Concen: 17.154 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059488.D
 Acq: 4 Dec 2019 16:10

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 78132
 Ion Ratio Lower Upper
 180 100
 182 95.5 48.0 144.2
 145 30.3 15.2 45.6

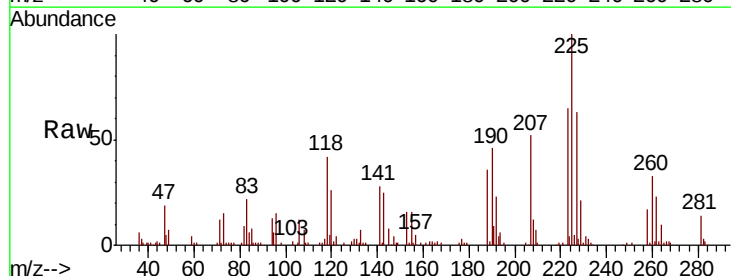


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

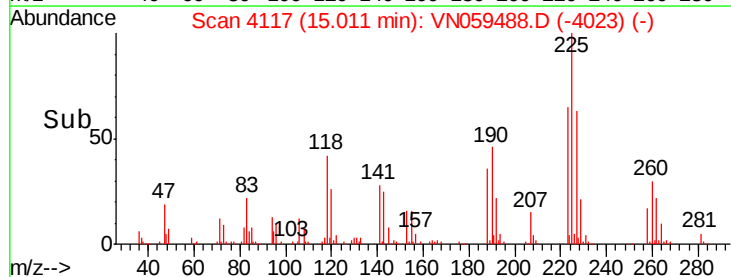
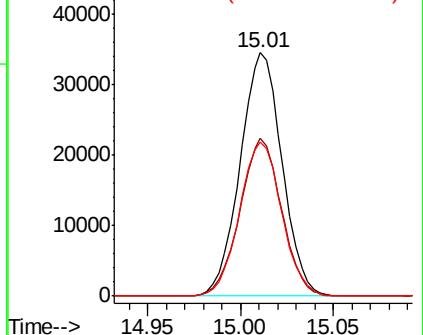


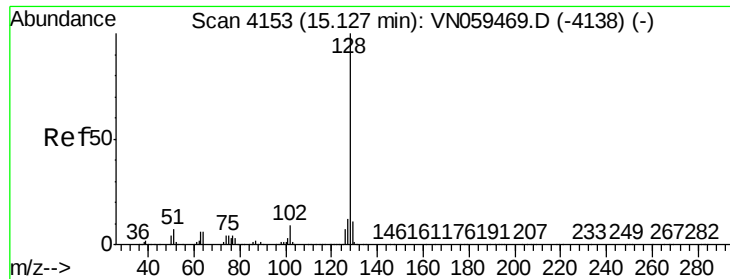
#94
 Hexachlorobutadiene
 Concen: 20.230 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN059488.D
 Acq: 4 Dec 2019 16:10

Tgt Ion:225 Resp: 54253
 Ion Ratio Lower Upper
 225 100
 223 64.3 31.9 95.5
 227 63.5 32.0 96.2



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: 17.986 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

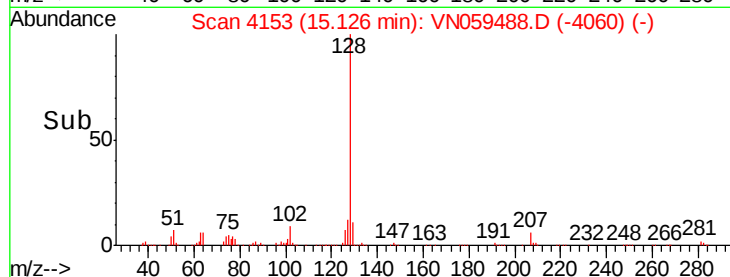
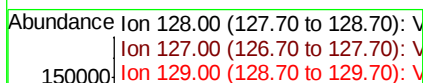
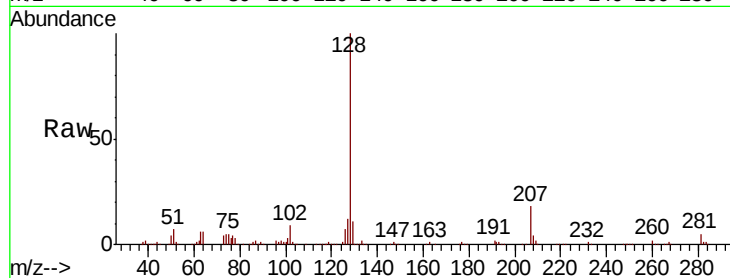
Instrument :

MSVOA_N

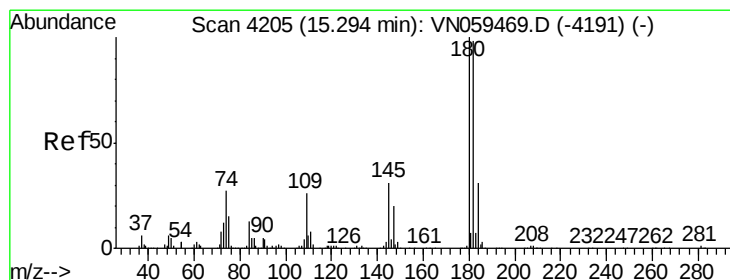
ClientSampleId :

Tot Ion:128 Resp: 205198

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.7	8.8	13.2



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 18.197 ug/l

RT: 15.30 min Scan# 4206

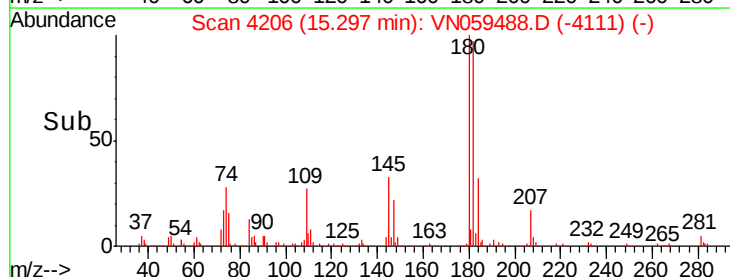
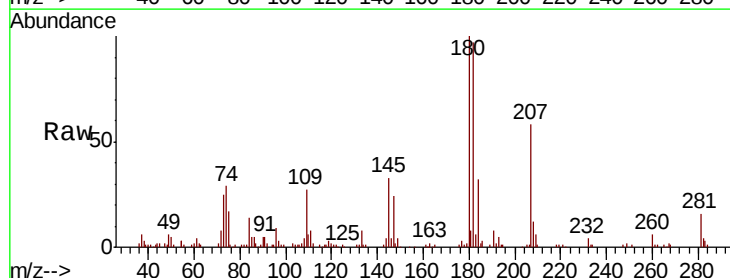
Delta R.T. 0.00 min

Lab File: VN059488.D

Acq: 4 Dec 2019 16:10

Tgt Ion:180 Resp: 77307

Ion	Ratio	Lower	Upper
180	100		
182	95.9	48.5	145.5
145	32.1	16.1	48.2



Time-->